## (ㅂ) сгпип CE SERIES Service Manual



## PROFESSIONAL AUDIO AMPLIFIERS

## Models: <br> CE-1000, CE-2000

(some units may have the model names: CE-1000A, CE-2000A, CE-2000TX, UT-1010, UT-2020, M120, M240, S2, and S3)

The information furnished in this manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance. If you need special assistance beyond the scope of this manual, please contact the Crown Technical Support Group.

Mail: P.O. Box 1000 Elkhart IN 46515-1000
Shipping: 1718 W. Mishawaka Rd., Elkhart IN 46517
Phone:(800)342-6939/(574) 294-8200
FAX: (574) 294-8301
Web: www.crownaudio.com

## CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DISCONNECT POWER CORD BEFORE REMOVING REAR INPUT MODULE TO ACCESS GAIN SWITCH.

## AVIS

À PRÉVENIR LE CHOC ÉLECTRIQUE N'ENLEVEZ PAS LES COUVERTURES. RIEN DES PARTIES UTILES À L'INTÉRIEUR. DÉBRANCHER LA BORNE AVANT D'OUVRIR LA MODULE EN ARRIĖRE.


## WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!

## Revision History

| Revision Number | Date | Changes |
| :---: | :---: | :---: |
| Rev. A | 3-98 | Initial Printing |
| Rev. B | 2-99 | Added Additional Module Documentation. <br> Added Revision History. <br> Added Inside Cover Page. <br> Updated Cover Page and Table of Contents. |
| Rev. C | 5-99 | Updated Graphic on Page 1-1. <br> Updated Specifications on Page 1-2. <br> Added Section 7, Module and Schematic Information. <br> Added Section 8, Module Parts Lists. <br> Moved existing Module Parts Lists from Section 6 to Section 8. <br> Added Module Parts Lists for Module CPNs:102139-11, 102140-11, 127321-1, 127323-1, 127353-1, 127373-2, 127354-1, and 127354-2. <br> Added Section 9, Field Service Modifications. <br> Added Section 10, Schematics. <br> Moved all existing Schematics from Section 6 to Section 10. <br> Added Schematics 102141M and 102142M. <br> Updated Cover Page, Revision History and Table of Contents. |
| Rev. D | 10-02 | Revised fan part no. from 125400-3 to 133551-1. <br> Updated phone number area code. <br> Updated sections 1.2, 1.3.6, 7.2, 7.2.1, 7.2.3, 7.3, <br> 7.3.2, 7.3.3, 7.4.1, 9.2, 9.4. <br> Added Module Parts Lists for Module CPNs: <br> 102140-9 revB, 126883-2 rev B, 127321-2, 127323-2, <br> 127353-3, 127354-3, 127451-4 and 127452-4. <br> Added Schematics 127451-4 and 127452-4. <br> Added Assembly Parts List for CE1000A and CE2000A Domestic. <br> Revised Crown logo. <br> Updated Cover Page, Revision History and Table of Contents. |

This page intentionally left blank

## Table of Contents

1 Introduction ..... 1-1
1.1 The CE-Series ..... 1-1
1.2 Warranty ..... 1-1
1.3 Specifications ..... 1-2
1.3.1 Performance ..... 1-2
1.3.2 Power ..... 1-2
1.3.3 Controls ..... 1-2
1.3.4 Indicators ..... 1-2
1.3.5 Input/Output ..... 1-2
1.3.6 Connectors ..... 1-2
1.3.7 Construction ..... 1-2
2 Maintenance ..... 2-1
2.1 Surface Mount Technology ..... 2-1
2.2 Cautions and Warnings ..... 2-1
2.3 Troubleshooting ..... 2-1
2.3.1 Pre-AC-Checks ..... 2-1
2.3.2 Main Module Removal ..... 2-2
2.3.3 Static Checks ..... 2-2
2.4 Checkout/Adjustment Procedures ..... 2-2
2.4.1 Equipment Required ..... 2-3
2.4.2 Initial Conditions ..... 2-3
2.4.3 Test Procedure ..... 2-3
2.4.4 Service Kit Wire Extensions ..... 2-3
3 Circuit Theory ..... 3-1
3.1 Front End Operation ..... 3-1
3.2 Balanced Gain Stage ..... 3-1
3.3 Variable Gain Stage ..... 3-1
3.4 Error Amp ..... 3-2
3.5 Voltage Amplification ..... 3-2
3.5.1 Voltage Translator ..... 3-2
3.5.2 Last Voltage Amplifier ..... 3-2
3.5.3 Bias Servo ..... 3-2
3.2.2 Output PCA ..... 3-3
3.6 Output Topology ..... 3-2
3.6.1 Pre-Driver ..... 3-3
3.6.2 Driver ..... 3-3
3.6.3 Output Devices ..... 3-3
3.6.4 Flyback Diodes ..... 3-3
3.6.5 Output Terminating Network ..... 3-3
3.7 Power Supply ..... 3-3
3.7.1 Low Voltage Supply ..... 3-3
3.7.2 Bootstrap Supply ..... 3-3
3.7.3 High Voltage Supply ..... 3-4

## Table of Contents

3.8 Protection Circuitry ..... 3-4
3.8.1 Time Dependent VI Limit ..... 3-4
3.8.2 Temperature Protection ..... 3-5
3.8.3 Low-Frequency and Short-Circuited Protection ..... 3-5
3.8.4 Input Compressor ..... 3-5
3.8.5 Turn-On Delay ..... 3-6
3.8.6 Output Relay Muting ..... 3-6
3.8.7 Input Muting ..... 3-6
3.8.8 Auxiliary Output Jack ..... 3-6
3.9 Fan Control Circuitry ..... 3-6
4 Neutrik Connectors ..... 4-1
5 Parts ..... 5-3
5.1 General Information ..... 5-3
5.2 Standard and Special Parts ..... 5-3
5.3 Ordering Parts ..... 5-3
5.4 Shipment ..... 5-3
5.5 Terms ..... 5-3
6 Exploded Views, Parts Lists ..... 6-1
Assy. CE 1000 Domestic ..... 6-2
Assy. CE 1000 PWA \& Chassis ..... 6-4
HS Assy. CE 1000 Isolated Ch. 1 ..... 6-6
HS Assy. CE 1000 Isolated Ch. 2 ..... 6-8
HS Assy. CE 1000 Non-isolated Ch. 1 ..... 6-10
HS Assy. CE 1000 Non-isolated Ch. 2 ..... 6-12
Assy. CE 2000 Domestic ..... 6-14
Assy. CE 2000 PWA \& Chassis ..... 6-16
HS Assy. CE 2000 Isolated Ch. 1 ..... 6-18
HS Assy. CE 2000 Isolated Ch. 2 ..... 6-20
HS Assy. CE 2000 Non-isolated Ch. 1 ..... 6-22
HS Assy. CE 2000 Non-isolated Ch. 2 ..... 6-24
Assy, CE 1000A Domestic ..... 6-26
Assy, CE 2000A Domestic ..... 6-28
7 Module and Schematic Information ..... 7-1
8 Module Parts ..... 8-1
NOTE: In Section 8, page numbers are on component-map title pages only.PWA 102139-68-3
Component Map ..... 8-17
PWA 102139-8 ..... 8-19
Component Map ..... 8-33
PWA 102139-9 ..... 8-35
Component Map ..... 8-49

## Table of Contents

PWA 102139-11 ..... 8-51
Component Map ..... 8-65
PWA 102140-6 (102140 revH) ..... 8-67
Component Map ..... 8-81
PWA 102140-8 ..... 8-83
Component Map ..... 8-97
PWA 102140-9 revB ..... 8-100
Component Map ..... 8-119
PWA 102140-9 rev C ..... 8-122
Component Map ..... 8-141
PWA 102140-11 ..... 8-144
Component Map ..... 8-163
PWA 102689 ..... 8-166
Component Map ..... 8-169
PWA 102690 ..... 8-170
Component Map ..... 8-173
PWA 126883-2 revB ..... 8-174
Component Map ..... 8-177
PWA 126883-2 revC ..... 8-178
Component Map ..... 8-181
PWA 127321-1 ..... 8-182
Component Map ..... 8-200
PWA 127321-2 ..... 8-203
Component Map ..... 8-220
PWA 127323-1 ..... 8-223
Component Map ..... 8-242
PWA 127323-2 ..... 8-245
Component Map ..... 8-262
PWA 127353-1 ..... 8-265
Component Map ..... 8-283
PWA 127353-2 ..... 8-286
Component Map ..... 8-304
PWA 127353-3 ..... 8-307
Component Map ..... 8-325
PWA 127354-1 ..... 8-328
Component Map ..... 8-347
PWA127354-2 ..... 8-350
Component Map ..... 8-369
PWA 127354-3 ..... 8-372
Component Map ..... 8-391
PWA 127451-4 ..... 8-394
Component Map ..... 8-412
PWA 127452-2 ..... 8-415
Component Map ..... 8-434

## Table of Contents

9 Field Modifications ..... 9-1
9.1 Fan Circuit Balast Resistors ..... 9-1
9.2 Timing/Mute Capacitors ..... 9-1
9.3 Modification for Noise/Oscillation Problem ..... 9-3
9.4 Bootstrap Resistor Modification ..... 9-4
9.5 Channel 1 Output to Channel 2 Speakon ..... 9-5
10 Schematics ..... 10-1

## PART I

 Technical InformationThis page left intentionally blank


## CE 2000 front and back panels

## 1 Introduction

This manual contains service information for the Crown CE-Series power amplifiers. It is designed to be used in conjunction with the CE-Series Reference Manual. Some important information is, however, duplicated in this Service Manual in case the Reference Manual is not readily available.

NOTE: THE INFORMATION IN THIS MANUAL IS INTENDED FOR USE BY AN EXPERIENCED TECHNICIAN ONLY!

### 1.1 The CE-Series

The CE-Series amplifiers are compact, audio power amplifiers designed for professional use. These units provide high-power amplification from $20 \mathrm{~Hz}-20 \mathrm{kHz}$ with minimum distortion. Features of these amplifiers are both Balanced Neutrik Combo ( $1 / 4$-inch and XLR) and Barrier Block Inputs, Signal, Clip and Fault indicators, stereo or bridged-mono capability, switchable sensitivity, and Neutrik Speakon ${ }^{\oplus}$ Outputs. These units
also feature a proportional speed fan, which optimizes cooling efficiency.

### 1.2 Warranty

Each Reference Manual contains basic policies as related to the customer. For further assistance please contact the Crown Technical Support Group at:

Crown International, Inc.
Mailing: PO Box 1000
Elkhart, IN 46515-1000
or
Shipping:

1718 W. Mishawaka Rd. Elkhart, IN 46517

Toll Free: (800) 342-6939
Phone: (574) 294-8000
FAX: (574) 294-8301
Web: www.crownaudio.com

### 1.3 Specifications

Crown specifications are guaranteed for three years. Further, we guarantee that every Crown amplifier will meet or exceed its published specs.

### 1.3.1 Performance

Note: Measurements made in Stereo, both channels driven into 8 ohms.
Frequency Response: $\pm 0.1 \mathrm{~dB}$ from 20 Hz to 20 kHz at 1 watt.
Phase Response: $\pm 15^{\circ}$ from 20 Hz to 20 kHz at 1 watt.
Signal to Noise at 8 Ohms Rated Power: $>105 \mathrm{~dB} A$ Weighted. >100 dB from 20 Hz to 20 kHz .
Total Harmonic Distortion (THD): <0.5\% from 20 Hz to 1 kHz.
I.M. Distortion ( 60 Hz and 7 kHz at $4: 1$ ): $<0.1 \%$ from 8 ohms rated power to -35 dB .
Damping Factor: >400 from 10 Hz to 400 Hz .
Crosstalk: >-55 dB from 20 Hz to 20 kHz .
Common Mode Rejection (CMR): >70 dB from 20-Hz to 1 kHz .

### 1.3.2 Power

Output Power: (Max. average power at 1 kHz with $0.5 \%$ THD.)

CE 1000 Stereo: 275 W/channel into 8 ohms, 450 W/ channel into 4 ohms, 560 W/channel into 2 ohms, both channels driven.
CE 1000 Bridged Mono: 900 W into 8 ohms, 1100 W into 4 ohms.
CE 2000 Stereo: 400 W/channel into 8 ohms, 660 W/ channel into 4 ohms, $975 \mathrm{~W} /$ channel into 2 ohms, both channels driven.
CE 2000 Bridged Mono: 1320 W into 8 ohms, 1950 W into 4 ohms.
Load Impedance: Rated for 16-, 8-, 4-, and 2-ohm use. Safe with all types of loads, even reactive ones.
AC Power CE 1000: 120V/50-60 Hz @ 6.3 amps , 230$240 \mathrm{~V} / 50 \mathrm{~Hz} @ 3.5 \mathrm{mpps}, 100 \mathrm{~V} / 50 \mathrm{~Hz}$ @ 7.6 mps
AC Power CE 2000: 120V/50-60 Hz @ 9.5 amps , 230$240 \mathrm{~V} / 50 \mathrm{~Hz} @ 5.1 \mathrm{amps}, 100 \mathrm{~V} / 50 \mathrm{~Hz}$ @ 11.4 amps

### 1.3.3 Controls

Front Panel: An on/off rocker switch; also, a detented rotary level control for each channel.
Back Panel: A two-position input sensitivity switch located below the input connectors. Can be set to 1.4 V for full output into an 8 -ohm load, or set to a fixed voltage gain of 26 dB ; Some models have an internal jumper located on the Main PWA for setting optional 0.775 V sensitivity. A two-position mode switch located below the input connectors. When turned to stereo,
the amplifier operates as two independent channels. When in "bridge-mono" mode the amplifier bridges the two output channels for twice the output voltage.

### 1.3.4 Indicators

A green LED SIGNAL indicator for each channel, which flashes when a very low level signal (>-40 dBm) is present at input.
A red LED CLIP indicator for each channel which turns on when distortion becomes audible in the amplifier output.
A red FAULT indicator which will blink under 5 different conditions:

1. When the amplifier is first powered up, until the unit is ready for operation.
2. If the heatsinks reach a temperature above normal working limits.
3. If the transformer thermal protection circuit is activated.
4. If the load on the amplifier develops a short- circuit.
5. Should the amplifier ouput stage become non-operational.
A green LED POWER indicator that turns on when the amplifier has been turned on and has power.

### 1.3.5 Input/Output

Input Stage: Input is electronically balanced and employs precision $1 \%$ resistors.
InputImpedance:Nominally 20K ohms, balanced. Nominally 10 K ohms, unbalanced.
Input Sensitivity: 1.4 volts for standard 1-kHz power or fixed 26-dB gain.
Output Impedance: <20 milliohms in series with less than 3 microhenries in stereo mode.
DC Output Offset: < $\pm 10$ millivolts.

### 1.3.6 Connectors

Inputs: One Neutrik Combo connector for each channel which features a balanced $1 / 4$-inch phone jack and a 3-pin female XLR connector, in parallel with a barrier strip termination.
Outputs: Two Neutrik Speakon ${ }^{\circledR}$ NL4MP (mates with NL4FC) output connectors. Optional binding post and barrier block output adaptors are available on the CE 1000A and CE2000A, and are standard on some models.

### 1.3.7 Construction

Rugged steel chassis formed into a durable package that is coated with enviromentally friendly powder for long life and ease of maintenance.

Dimensions: Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B), 5.25 -inch ( $13.34-\mathrm{cm}$ ) height and $12.25-\mathrm{inch}(31.11-\mathrm{cm})$ depth behind front mounting surface.

Weight: The CE 1000 weighs 32.6 pounds ( 14.79 kg ). The CE 2000 weighs 40.3 pounds ( 18.28 kg ). For shipping weight, add $6 \mathrm{lbs}(2.7 \mathrm{~kg})$ to each amp. Mounting: Standard EIA 310 front-panel rack mount.

## 2 Maintenance

Fundamentally, troubleshooting involves looking for an abnormal situation. When a problem has been observed, it is obvious that something is not doing what it is expected to do. A single part, solder joint, or trace is usually the root cause, and testing for typical voltages and signal tracing can usually result in a solution for most of the problem units. Unfortunately, there are two other scenarios. (1) Sometimes a single problem may cause other parts to fail so there will be several parts that must be replaced. In this case, however, finding the root cause is not as important as just finding all of the blown or damaged parts and replacing them. The failed part will probably (but not always) be among them and the act of replacing the parts will fix the amplifier. (2) If the observed behavior is an oscillation, high THD, or the output slammed to one of the rails, the very nature of a feedback amplifier will spread this effect throughout the power amplifier section. This troubleshooting guide and a familiarity with amplifier operation should help you fix whatever comes your way!

### 2.1 Surface Mount Technology

The CE-Series amplifiers use surface mount technology in their design. There are several advantages to using surface mount technology (SMT), including; (1) surface mount devices (SMDs) are much smaller, and are mounted to the surface of the board, so more components can be placed on the board. (2) Components can be attached to both sides of the board, allowing the board size to be reduced. (3) SMT boards are lighter and provide better electrical performance signal speed.

Of course, there are also things to watch out for with SMT. (1) The placement of the components on the board, not through a hole, makes the components and the solder joint more susceptible to damage. (2) Rework of SMDs can often require specialized tools, equipment, or training. (3) SMDs are very small and can be difficult to handle, see, and identify.

Remember that on the CE-Series amplifiers, the SMDs on the bottom side of the main module are GLUED. Take care not to damage components while trying to remove them from the surface of the module.

### 2.2 Cautions and Warnings

DANGER: The outputs of this amplifier can produce

LETHAL energy levels! Be very careful when making connections. Do notattemptto change output wiring until the amplifier has been off at least 10 seconds.
WARNING: This unit is capable of producing high sound pressure levels. Continued exposure to high sound pressure levels can cause permanent hearing impairment or loss. User caution is advised and ear protection is recommended when using at high levels.
WARNING: Do not expose this unit to rain or moisture.
WARNING: Only properly trained and qualified technicians should attempt to service this unit. There are no user serviceable parts inside.
WARNING: When performing service checks with the power off, discharge the main power supply filter capacitors fully before taking any measurements or touching any electrical components. A 300 -ohm 10-W resistor is recommended for this. Hold the resistor with pliers, as the resistor may become extremely hot.
WARNING: Under load, with a sine wave signal at full power into both channels, the amplifier may draw in excess of 30 amperes from the AC service mains.
WARNING: When performing tests in Section 2.3, do not connect any load to the amplifier until instructed to do so. There is no danger to the amplifier in operating without any load (open outputs).
WARNING: Do not change the position of the ModeSwitch when the amplifier is turned on. If the position of this switch is changed while the amplifier is powered, transients may damage your speakers.
WARNING: Heatsinks are not at ground potential. Simultaneously touching either heatsink and ground, or both heatsinks will cause electrical shock.
CAUTION: Eye protection should be worn at all times when protective covers are removed and the amplifier is plugged in.
CAUTION: When performing tests in Section 2.3 that require a load, the load must be resistive and must be capable of handling 1000 W (per channel).
CAUTION: Disconnect the power cord before installing or removing any cover or panel.
CAUTION: Electrostatic discharge will destroy certain components in the amplifier. Techicians must have approved ESD protection. Proper grounding straps and test equipment are required.

### 2.3 Troubleshooting

### 2.3.1 Pre-AC-Checks

A number of checks can be made prior to powering up the unit. These should be done in order to prevent an unwanted disaster when turning the unit on. Once these checks are made, power may be applied for further checks. Note: It will be necessary to remove the top panel for complete access to all modules.

Step 1: Acquire all information possible from the person(s) having the problem to determine the nature of the complaint. Ask questions like "Why was the amplifier brought in for repair?" "Does it do this at turn on, does it take a while, or does it only happen sometimes?" If you observe nothing wrong, inquire tactfully how the unit was being used when the malfunction occurred. This will help determine if the unit may have been misused, if the user misunderstood what happened, or if another system component may be at fault. Remember, this is one of the first amplifier series to have only Neutrik Speakon ${ }^{\oplus}$ connectors for the outputs. There is room for error in assembling the connectors. Be sure to ask if the person may have had problems with the Speakons.

Step 2: Always do a complete visual inspection. A problem may be obvious just by looking at the unit. Things to look for include burned components, wires not connected, fan obstructions, loose hardware or connections, and soldering. Plugged heatsinks can greatly reduce amplifier efficiency. The fan blades should spin freely. Burns and other physical damage should be repaired and components in the affected circuit areas should be checked carefully before continuing.

Whether a problem is identified by visual inspection or not, several checks should be performed prior to turning the amplifier on. These should be performed if any of the following problems have been reported: catastrophic failure, no signal output with constantly blinking Fault LED, or the condition of the amplifier is otherwise unknown but failure is suspected.

The third step on the "to do" list involves a number of electrical checks. Due to the protection features of the CE-Series amplifiers, it should be safe to turn-on under all circumstances, but these preliminary checks may allow a partial (if not complete) repair before power is ever applied. These checks are designed to find problems in the output stages. The ultimate guide should always be common sense.

### 2.3.2 Main Module Removal

1. Remove the top cover by removing the four side screws, liftup slightly on the rear of the cover, and then pull it toward the back of the amplifier. Many of the parts are located on the bottom side of the circuit board. In most situations, the circuit board won't need to be removed from the chassis. In the event that it does, go to step 2.
2. Remove the red and blue wires from the rectifier block that is screwed to the bottom of the chassis near the power supply capacitors and short the wires together through a resistor such as a 300-ohm 10 W .
3. Disconnect the in-line FASTON that connects the circuit board to the transformer.
4. Disconnect the 4 -wire connector from the circuit board that comes from the transformer.
5. Disconnect the small white wire that connects the circuit board to the rectifier block.
6. Remove the four screws that hold the input assembly to the chassis. Unplug the input assembly from the ribbon cable.
7. Remove the four screws that hold the output jacks to the back panel.
8. Unplug the fan from the circuit board.
9. Remove the eight screws (five in the rear, three in the front) that hold the circuit board down to the chassis.
10. Remove the knobs from the gain pots by pulling the knobs out the front. The circuit board will now lift out of the chassis; but be careful, it is a tight fit.

### 2.3.3 Static Checks

1. Locate the flyback diodes D114, D115, D214, and D215 on the main modules and check for indications of a short. If a short is indicated, this means that an output device or driver transistor in parallel with that diode is shorted, usually not the diode itself. If an output device is found to be defective, emitter resistors should also be checked. If no output device is found defective, perform a quick check of driver, pre-driver, and bias transistors. Then, if no problem is found, move to the power-on checks in Section 2.3
2. Check driver and pre-driver transistors for shorts or opens. If a fault is found, do an in-circuit static check of all semiconductors on the output modules. If no output device and nothing upstream is found defective, move to power-on checks. Otherwise continue.
3. If a failure has occurred anywhere in the output stages, check the bias servo transistor. Any failure associated with bias transistors may result in repeat failure of the affected channel even if all other defective components have been found and replaced.
4. If a failure is found in any LVAs, checks should continue up to the voltage translator stage.
5. Failure within the power supply itself is very rare; however, a cursory check of major items is always prudent.

### 2.4 Checkout/Adjustment Procedures

The following instructions outline an orderly checkout and troubleshooting procedure. The purpose and arrangement of this procedure is to ensure proper operation after a repair has been completed. Before beginning these power-ontests, review all cautions and warnings in Section 2.1, and perform the checks listed in Section 2.2. These checks will minimize the possibility of receiving a nasty surprise when turning on the CE-Series amplifier.

WARNING! Most adjustments are made with the cover removed.

WARNING! Most adjustments are made with the cover removed. Prior to any AC power off testing, discharge all power supply capacitors. Also, use extreme caution when making internal adjustments when the unit is powered.

### 2.4.1 Equipment Required

The following is a list of standard equipment needed to perform all the tests listed in Section 2.3.3:
Line Voltage Variac: $2-k W$ or larger.
Oscilloscope: 2 Channel, 10-MHz or better.
Digital Multimeter: Various measurements.
Watt Meter: For AC line draw.
ACVM: Peak reading RMS calibrated (all AC line voltage and amplifier output voltage checks).
I.M.D. Analyzer: $60 \mathrm{~Hz} / 7 \mathrm{kHz}$ in $4: 1$ ratio, accurate to $0.001 \%$ I.M.D.
T.H.D. Analyzer: Accurate to 0.001\%.

Loads: 2000 W continuous at 1 ohm.

### 2.4.2 Initial Conditions

The start of each step assumes all switches are pre-set to the following positions:
Mode Switch: STEREO position.
Input Sensitivity Switch: 1.4 V position.
Level Controls: Both up (clockwise) fully.

### 2.4.3 Test Procedure

The following steps are arranged in order for best results and, for the most part, easiest use. Read each step carefully before proceeding. Read all precautions in Section 2.1 before continuing. Use extreme caution and good common sense at all times. The preceding warnings and cautions are detailed for good reason.

### 2.4.4 Service Kit Wire Extensions

A service kit containing wire extensions is available from the Crown Parts Department (part \# 125581-1). By using the wire extensions provided in the kit, maneuverablility of the main module is greatly increased. When using the service kit, it is required that all instructions be followed.

Special Note On Grounding: Whenever the main module is removed from the chassis and power is applied, the grounding wires absolutely must be attached. Also, if you are at-
tempting to make very precise THD or noise measurements, the main module must be completely installed in the chassis with all seven mounting screws properly seated to their specified torque, $12-14 \mathrm{in}-\mathrm{lb}$ (1.35-1.58 newton meters). This assures a proper low-impedance ground path for the module. However, if you require measuring THD or noise with the main module removed from the chassis, please call technical support for further information and instruction.

If you are attempting to check or measure VI limiting, output power, or any other test which would require the amplifier to produce large amounts of heat, the main module should be securely mounted inside the chassis with the fan connected. If the module must be removed from the chassis, the test should be of very short duration, and/or an external fan should be used for cooling the heat sinks.

## Service Kit Assembly Instructions

1. Follow the main module removal procedure.
2. Attach the 16AWG blue wire in the service kit to the 16AWG blue wire on the main module and to the negative tab on the rectifier.
3. Attach the 16AWG red wire in the service kit to the 16AWG red wire on the main module and to the positive tab on the rectifier.
4. Attach the 22AWG white wire in the service kit to the 22AWG white wire on the main module and to the AC tab on the rectifier.
5. Attach the 14AWG black/white wire in the service kit to the 14AWG black/white wire on the main module to the 14AWG black/white wire coming from the transformer.
6. Plug in the female 4 -pin connector on the 4 -wire service assembly to the 4 -pin header on the main board. Plug the male end into the 4-pin female connector coming from the transformer, making sure the orientation is as shown in Figure 2.1. Plug in the input module.

## Optional Grounding Wire

7. On the 12AWG green ground wire, attach the longest wires' ring terminal to the chassis ground shown in Figure 2.2, using the PWA mounting screw. The remaining three wires should be attached to the PWA at the three grounding locations shown in Figure 2.2, using the 6-32 screws and $6-32$ hex nuts provided in the kit.


Figure 2.14-pin Connector Wiring Diagram.


Figure 2.2 CE 1000 with Main Module Removed and Service Kit Installed

WARNING: Do not connect any load to the CE-Series power amplifier during these tests until specifically instructed to do so.

| Type of Test <br> or Adjustment | Input Signal and <br> Load Parameters | Comments |
| :--- | :--- | :--- |



Type of Test
or Adjustment
6. Bridge Mono
7. LED Check
8. Current Limit
9. 10-kHz Square Wave Slew Rate Test

Input Signal and Load Parameters

1-kHz Sine Wave No Load

No Input No Load

1-kHz Sine Wave
$10-\mathrm{kHz}$ Sq. Wave 8-ohm Load

Note: Always turn power to the amplifier off prior to changing the position of the Mode Switch. With the dual/mono switch in the bridge mono position, insert a 0.775 Vrms 1-kHz signal into channel one input. There should be signal present on both channel outputs, equal in amplitude, with channel two 180 degrees out of polarity from channel one (see Fig. 2.3). Channel one input level control should control the output level for both channels. Return the amplifier to stereo operation.

Turn the amplifier on after being off at least 10 seconds. Make sure the green Power LED is on. If not, check the ground screw at the front of the amplifier, near C218, that holds the PWB to the chassis. Also suspect R4, E1, or R19.

Set the sensitivity switch to $26-\mathrm{dB}$ and check that both level controls are fully clockwise. Insert a $3.5 \mathrm{~V} 1-\mathrm{kHz}$ sine wave into channel 1 only and capture the output signal on a digital storage scope. Turn off the signal. The limits for the CE 1000 are $20 \mathrm{~A} \pm 5 \mathrm{~A}$. For the CE 2000 the limits are 25.5 A $\pm 5.5 \mathrm{~A}$. Change the input signal to channel 2 only and repeat the test.

With an 8-ohm load on each channel, insert a $10-\mathrm{kHz}$ square wave and adjust amplitude to produce an output 10 V below clipping. Observe a $7 \mathrm{~V} / \mu \mathrm{S}$ (or higher) slew rate. The output waveform should be stable with no ringing or over-shoot.


Fig. 2.3 Bridge MONO

WARNING: Many of the following checks are done by connecting a resistive load to the output of the amplifier. Use caution and follow check-out procedures carefully to ensure correct results. These tests require a resistive load capable of over 2000 W continuous into as low as 2 ohms.

WARNING: The CE-Series is capable of drawing in excess of 30 Amperes of current from 120VAC mains when loaded to 2 ohms per channel and with both channels driven by a 1 kHz sine wave.

For tests numbered 10-15 the main module should be placed back into the chassis if at all possible. Otherwise, the heatsinks will become very warm, causing the amplifier to thermally protect itself. It is also possible under high-power bench testing to trip the front panel circuit breaker. Also, with the module removed from the chassis, test \#14, Fan Operation, will not be able to be performed.

Type of Test or Adjustment

Input Signal and
Load Parameters


Make sure the sensitivity switch is set to 26 dB . Note: Operation with a sine wave into a low-impedance load will cause the circuit breaker to trip after 10 to 20 seconds.

AC Mains of 120 VAC, 60-Hz
8-Ohm Load: Minimum voltage is 46.9 Vrms (275W) with $<0.5 \%$ THD for the CE 1000 and 56.6 Vrms (400W) with <0.5\% THD for the CE 2000.

4-Ohm Load: Minimum voltage is 42.4 Vrms (450W) with $<0.5 \%$ THD for the CE 1000, and 51.3 Vrms (660W) with $<0.5 \%$ THD for the CE 2000.

2-Ohm Load: Minimum voltage is 33.4 Vrms (560W) with $<0.5 \%$ THD for the CE 1000, and 44.1 Vrms (975W) with <0.5\% THD for the CE 2000.

You may need to adjust your variac back up to nominal line voltage during these tests. Place the sensitivity switch in the $26-\mathrm{dB}$ position. Use a $60-\mathrm{Hz} / 7-\mathrm{kHz}$ (standard SMPTE IM signal) input signal summed in a $4: 1$ ratio. Set the $60-\mathrm{Hz}$ portion for 33.9 Vrms at the output of the channel under test for the CE 1000, or 40.8 Vrms at the output of the channel under test for the CE 2000. This is your 0-dB reference. Measure the I.M. distortion. Check in -5 dB (power) steps until -35 dB is reached. Readings should be less than $0.1 \%$ at each level.
$\left.\begin{array}{l|l}\begin{array}{l}\text { Type of Test } \\ \text { or Adjustment }\end{array} & \begin{array}{l}\text { Input Signal and } \\ \text { Load Parameters }\end{array} \\ \hline \text { 12. Noise } & \begin{array}{l}\text { No Signal } \\ \text { No Load }\end{array} \\ \text { 13. Crosstalk Check } \\ \text { 14. Fan Operation } \\ \text { 20-kHz Sine Wave } \\ 8-o h m \text { Load }\end{array}\right\}$

Make sure the sensitivity switch is in the $26-\mathrm{dB}$ position and the level controls are fully clockwise. Terminate the input with a $600-$ ohm load. Using a 20 to $20,000-\mathrm{Hz}$ bandpass filter, measure the noise on the output of the channel under test. Noise is measured relative to power output at 8 -ohms ( 275 Watts ( 46.9 Vrms ) for CE1000, 400 Watts ( 56.6 Vrms ) for CE 2000) and should be at least 100-dB down from these numbers.

Make sure the sensitivity switch is set in the $26-\mathrm{dB}$ position. Load each channel to 8 -ohms. Insert a $20-\mathrm{kHz}$ sine wave into channel 1 and adjust for 44.7 Vrms output. Terminate channel 2 input with 600 ohms. Measure less than 80 mVrms at the output of channel 2. (Greater than 55 dB down at $20-\mathrm{kHz}$ )

Move the input signal from channel 1 to channel 2 and the 600-ohm termination from channel 2 to channel 1. Ensure there is 44.7 Vrms at the output of channel 2. Measure less than 80 mVrms at the output of channel 1.

Make sure the mode switch is in the "stereo" position. Plug a $1-\mathrm{kHz}$ source into channel 1, 2 or both and observe the amplifier outputs with a voltmeter. Set the inputs so that about 10 Vrms is on the outputs and set the load to 4 -ohms. If the amplifier produces power until the heatsinks get so hot that a channel goes into thermal protection, the fan is not working correctly. With the amplifier still in thermal protection, measure the voltage at J 4 pin 1 (the red fan wire). If this voltage is greater than 20VDC, there is a problem in the wiring of the fan, or a problem with the fan itself.
If the voltage is less than 20VDC, then the fan control circuit needs attention.

U106 is a thermally controlled current source that is thermally connected to the heatsink. For channel 1 , R190 develops a voltage across it due to this current, and this signal is OR'ed with the voltage from channel 2 and the transformer thermal switch. U4A is a DC amplifier that voltage amplifies the signal, and Q1 and Q2 current amplify this signal to drive the fan.

If the heatsinks are hot, and $\mathrm{U} 4-7$ is negative, suspect U106, R191, R190, D119, R20, R21, R22, and U4. If the heatsinks are hot, and U4-7 is positive but U4-1 is low, suspect R23, R12, R11, and U4. If U4-1 is quite high (above 10V), but J4-1 is not the same voltage, Q1, Q2, R14, or R15 may be at fault.

## Type of Test <br> or Adjustment <br> Input Signal and Load Parameters <br> Comments

| 15. Fault Jack | No Signal No Load | Turn off the amplifier and set up the DMM to measure the voltage at U105-7. Turn on the amplifier and observe this voltage. Before the relays click in, U105-7 should be positive, and after they click in U105-7 should be negative. If this is not the case, suspect R179, and U105. <br> For every condition that J 5 presents an open circuit, the "fault" LED should blink, with one exception; when the amplifier is off, the LED cannot blink. Verify that when the amplifier is in its turn-on delay, the "fault" LEDs both blink. If they don't, but the fault jack operates correctly, suspect D124, C122, R180, R182, R183, E102, E181, and R105. |
| :---: | :---: | :---: |
| Post Testing Procedure |  | At the completion of testing, set all switches per customer request. If none are specified by the customer, the following are standard factory settings for original shipment: <br> Mode Switch: STEREO position. Input Sensitivity Switch: To 1.4 V position. Level Controls: Both down (counter-clockwise) fully. |

## 3 Circuit Theory

### 3.0 Overview

This section of the manual explains the general operation of the CE power amplifier. Topics covered include Front End Operation, Voltage Amplification, Output Stage Topology, Protection Circuitry and Power Supplies. For simplicity, the circuit theory will only refer to channel one. It may be assumed that channel two is identical to channel one.

### 3.1 Front End Operation

The front end is comprised of three stages: Balanced Gain Stage (BGS), Variable Gain Stage (VGS) and the Error Amp. These front end stages are shown along with the rest of the amplifier in block diagram form in Figure 3.1.

### 3.2 Balanced Gain Stage (BGS)

Input to the amplifier is balanced. The shield is iso-
lated from chassis ground by an RC network to interrupt ground loops. The inverting (-) side of the balanced input is fed to the non-inverting input of the first op-amp (U500-A) stage located on the input card. The non-inverting (+) side of the balanced input is fed to the inverting input of the first op-amp stage. Electrically, the BGS is at unity gain. (From an audio perspective, however, this stage actually provides $+6-\mathrm{dB}$ gain if a fully balanced signal is placed on its input.) The BGS is a non-inverting stage. Its output is delivered to the Variable Gain Stage.

### 3.3 Variable Gain Stage (VGS)

From the output of the BGS, the signal goes to the VGS where it is inverted and gain is determined by the position of the sensitivity switch ( 26 dB or 1.4 V ), and level is determined by the level control. The sensitivity switch allows for R505 to be either in or out of the local feedback path of U500-B. When R505 is out of the path (i.e. sensitivity switch in 1.4 V position), and the gain of $\mathrm{U} 500-\mathrm{B}$ is greater than 1 , the amplifier will produce full rated output when the amplitude of the input is 1.4 volts. Likewise, when the sensitivity switch is in the $26-\mathrm{dB}$ position, R 505 is in parallel with R506. This sets the gain of U500-B at 1.0 volt/volt. In


Figure 3.1 Block Diagram of CE Amplifier Circuit Operation
this case, the gain of the VGS is unity and the amplifier will have an overall fixed gain of 20 volt/volt or 26- dB. The VGS is an inverting stage.

### 3.4 Error Amp

The inverted output from the VGS is fed to the noninverting input of the Error Amp (U101-C) through an AC coupling capacitor C103 and input resistor R106. Diodes D103 and D104 prevent overdriving the Error Amp. Amplifier output is fed back via the negative feedback (NFb) loop through R112 and C106 (pre-terminator network) and R322 (post-terminator network). The overall closed-loop mid-band gain is set to be 20 or 26 dB by resistors R112 and R110.

The Error Amp's job is to keep both inputs at the same potential. Since the signal fed to the inverting input is $1 / 20$ of the amplifier output, the Error Amp output should be the same as the non-inverting input, which should be $1 / 20$ of the output of the amplifier during linear operation (i.e., what goes in, comes out with gain). Any type of non-linearity in the output will cause the Error Amp to compensate with the opposite of the non-linearity. For example, if the amplifier clips, the error amp will travel all the way to its opposite rail trying to compensate. The output of the Error Amp, called the Error Signal (ES) drives the Voltage Translator (Q103).

### 3.5 Voltage Amplification

The voltage amplification stage consists of the voltage translator, last voltage amplifier and the bias servo. Each of these items are discussed in this section.

### 3.5.1 Voltage Translator

The Error Amp output is only capable of swinging several volts and therefore must be voltage amplified to drive the output stage. The purpose of the voltage translator, Q103, is to level shift or translate the voltage from a reference around ground to a reference just above -Vcc. The result is higher voltage swing capabilities from the LVA. This is required since the next stage is referenced to -Vcc. The diode D105 protects the voltage translator from reverse biasing.

### 3.5.2 Last Voltage Amplifier (LVA)

The next stage is the Last Voltage Amplifier Q107. The LVA provides voltage gain necessary to provide drive to the output stage. R115 in the base of Q107 provides collector current for Q103, the voltage translator, and it also allows the signal of the collector of Q107 to be developed across it and thus amplified.

The series combination of D126 and D127, in parallel with the base-emitter junction of Q107 and R136, form a circuit that limits the current through Q107. One of these diode drops equates to the base-emitter junction of Q107, and the other equates to the voltage on R136. Therefore, the current through Q107 cannot rise higher than that required to produce a diode drop across R136.

### 3.5.3 Bias Servo

Q104, R132, R133 and R134 form the bias servo. This circuit is also known as a $\bigvee_{B E}$ Multiplier or a level shifter. Q104 is called the bias transistor. The purpose of this circuit is to provide and control bias to the output stage. By utilizing the constant current source Q105, the bias servo effectively multiplies the voltage across the bias transistors base-emitter junction and produces the output voltage across the bias transistors collector-emitter junction. The bias adjustment pot R134 is included to allow adjustment of the bias voltage.

The bias transistor is mounted on the main module and thermally connected to the heatsink. The purpose of this is to allow the bias transistor to automatically adjust the bias voltage as needed depending on the temperature of the output devices. This is possible because the forward voltage drop across a P-N junction decreases by approximately 2 mV for every $1^{\circ} \mathrm{C}$ increase in temperature.

### 3.6 Output Topology

The output topology for the CE series amplifiers is a type of quasi-complementary design using only N-P-N output devices. They also have the classic CROWN AB+B biasing configuration also known as MultiMode ${ }^{\circledR}$ or triple-deep Darlington. The pre-drivers and drivers are biased at 0.6 V and the output transistors have a 0.31VDC voltage from base-emitter and are therefore at a sub-turn-on voltage. In this type of topology $(A B+B)$, the driver transistors carry the bias current, while the output transistors sense when the drivers have developed significant current, and thus take over and deliver the needed current. This is a proven design that provides maximum efficiency with minimum crossover notch distortion and idling amplifier heat. Thus there is no bias current adjustment, as the output circuit is not temperature-tolerance critical.

This output topology has become quite common in power amplifier design. Typical Darlington transistors, connected in the Common Emitter configuration, are used
when extremely high input resistance and very high $\mathrm{h}_{\mathrm{fe}}$ (current gain) are required. Figure 3.1 includes the block diagram of the output stage. The output stages can be further broken down by Pre-driver, Driver, Output Devices, Flyback Diodes and Output Terminating Network.

Be sure when replacing the heatsink that the nuts are torqued properly. The heatsink receives its power through these nuts, and without them being torqued properly, the amplifier will not function correctly.

### 3.6.1 Pre-Driver

There is both a positive side pre-driver Q110 and a negative side pre-driver Q120. The level-shifted signal from Q107 is applied directly to the base of Q110 where it is current amplified. The level shifted signal applied to the base should be symmetrical relative to 0 VDC plus the DC offset required to bias on Q110 and the driver. The positive predriver is connected as an emitter-follower stage with no sign inversion; the negative side must provide sign inversion and level shifting so that the driver can be referenced to the negative rail. Thus, the output is taken off of the collector.

### 3.6.2 Driver

The positive side driver, Q112, is driven by the pre-driver, Q110. Likewise, the negative side driver, Q121, is driven by the negative pre-driver, Q120. The Class $\mathrm{AB}+\mathrm{B}$ nature of the output stage means that the drivers are on as Class $A B$ devices, and the amount of bias can be measured across R150 or R165. The resistors R150 and R165 are called the bias resistors because they are connected directly across the base-emitter junction of the output devices.

### 3.6.3 Output Devices

The output devices, Q114-Q119 on the positive side and Q123-Q128 on the negative side are driven directly from the emitters of the respective drivers. The most important characteristic between output devices is their ability to share current handling. In ideal current sharing all of the output devices produce the same amount of current; that is, no one output device works more than or less than any other output device. However, not all transistors have identical current gain. This is why, for optimum performance, it is absolutely critical that the output devices be matched. When the output devices are matched, they will have current gains that are very similar. To ensure optimal performance, numbered devices should only be ordered from the Crown Service Department.

### 3.6.4 Flyback Diodes

D114 and D115 are called flyback diodes. In the event that a back EMF (flyback) pulse exceeds the power supply voltage, the flyback diode will shunt this voltage to the supply in order to protect the output devices.

### 3.6.5 Output Terminating Network

R158, L102 and C118 form the output terminating network. This network serves several functions. It allows the amplifier to better drive very reactive loads and improves amplifier stability.

### 3.7 Power Supply

There is one current source and three different power supplies in the CE series amplifiers: the low-voltage supply, bootstrap supply and the high-voltage supply. Each of these circuits will be discussed in this section.

### 3.7.1 Low Voltage Supply

The low-voltage supply is a bipolar supply producing +15 V and -15 V viatwo three-terminal regulators. The source of AC voltage comes from special taps on the main transformer. This type of low-voltage supply produces an extremely stable and dependable voltage source for all of the low-voltage circuitry.

### 3.7.2 Bootstrap Supply

The bootstrap supply is a voltage doubler network that consists of C1, C3, D6 and D7. The AC leg of the secondary is applied to R1, which limits the current. Since the voltage at +Vcc is tied through D6, the voltage on C1+ can be no lower than $+\mathrm{Vcc}-0.7 \mathrm{~V}$ so the voltage of $\mathrm{C} 1+$ will be $+\mathrm{Vcc}-$ 0.7 VDC when there is no input on WP6. As the voltage on WP6 goes positive, C1- rises, minus the voltage drop on R1, and therefore, C1 + rises relative to ground by the same amount. D7 will conduct, charging C3+. As WP6 completes its cycle and goes negative, D7 prevents the charge built up on C3 from travelling back to C1. So, every positive cycle ofWP6 adds charge up to the point that C3+ reaches twice WP6 peak minus the drop on R1. The voltage developed at C3+ has a significant amount of ripple, and that ripple is not equal in amplitude to that on +Vcc . R 2 provides acurrent path and isolation between the voltage required ( $\mathrm{HI}-\mathrm{V}$ ) and that on C3+. D8 (10V Zener) is placed between HI-V and +Vcc to limit HI-V to +Vcc + 10VDC.

The purpose of this supply is prevent the bias string from limiting the rail voltage. If the top of the bias string was connected to the positive rail voltage, the current required for bias flowing through a resistor to create a
current source would drop enough voltage to require a higher rail voltage. This would increase the dissipation of the outputs since they would never reach this voltage. By using a bootstrap supply, the bias string never limits the available voltage swing of the amplifier.

### 3.7.3 High Voltage Supply

The high voltage supply is bipolar and produces the rail voltages +Vcc and -Vcc. It is full-wave rectified and capacitively filtered. The transformer scales the line voltage to the voltages required by the amplifier. It also provides isolation between the line voltage appearing at the primary winding of the transformer and the rest of the amplifier.

### 3.7.4 Constant Current Source

Q105 and R135 form a constant current source utilizing the bootstrap supply HI-V and the rail voltage +Vcc . This source is derived from the difference between $\mathrm{HI}-\mathrm{V}$ and +Vcc (which is +10 V ) being developed across R135 and Q105 baseemitter junction. Since this difference is presented across the base-emitter junction, the ripple of HI-V relative to +Vcc must be zero for a constant current to be produced. Another very important component is C138. C138 overpowers the base-collector capacitance of Q105. This ensures that the slew limit of the LVA is set by a more constant capacitance rather than one that is much more variable with the applied voltage. This lowers distortion by making the rate of change of the waveform less dependent on the output voltage.

The constant current source is required for proper operation of the bias servo circuit. It also helps to provide isolation between the front end input stage supply and the rail voltage.

### 3.8 Protection Circuitry

The CE series of amplifiers are equipped with a great deal of protection circuitry to protect the amplifier under a wide and varied array of fault conditions. Each of the fault conditions and fault circuitry will be reviewed in this section. Also, the CE amplifiers provide an output fault connector to allow remote monitoring of the amplifier's condition. This remote fault connector will also be covered. A block diagram of the Protection Circuitry Logic is shown in Figure 3.2.

### 3.8.1 Time Dependent VI Limit

There is a special type of VI limiting in the CE amplifiers. It is called Time Dependent VI limiting. While most current limiting circuitry is independent of frequency, that is, it limits VI regardless of what the frequency is, Time Dependent VI limiting will actually adjust the VI limiting of the amplifier based on the frequency of the signal.

The time/frequency dependence of the limiter also allows for higher, non-repetitive peak-currents than is allowed for continuous wave output signals. The result is an amplifier more suited to reproducing music.


The VI circuitry first senses the output current from the current sense resistors R152 and R301 on the positive side, and R159 and R300 on the negative side. This voltage is then fed to the limiting transistors Q108 and Q109. Before the output current becomes dangerously high, the limiting transistor is activated, which in turn limits the drive voltage at the base of the pre-driver. When the pre-driver current and the limiter current are equal to the current available from the constant current source, a limit point is reached, and the protection circuitry remains in this state until the overload is removed.

The frequency dependence of the circuitry comes from the capacitors C113 and C114. The resistors R140 through R143 are referenced to ground and only affect current limit when the output voltage is higher than ground. The resistors also serve to drain the charge from C113 and C114, thus increasing the current limit as the output voltage is increased. The diodes D113 and D114 serve to block voltage during opposing cycles so that the positive current limit circuitry is not affected by negative output signals and vice-versa. The VI limiter is pre-biased by R317 and R318. This is done so that less current in the output stage is required to activate it.

### 3.8.2 Temperature Protection

There are three different temperatures that are monitored on the CE amplifiers; the transformer temperature and both channel 1 and 2 heat-sink temperature. The transformer temperature is monitored by an internal thermal switch which is closed (shorted) during normal operation. When the transformer reaches its thermal limit, the switch opens to protect the transformer, the fan speed is turned to full, and the relay K100 is turned on, thereby isolating the load from the output of the amplifier. When the relay K100 is turned on, the mute circuitry is simultaneously activated. The mute circuitry will effectively steal the drive from the error amp. Essentially, the amplifier is safely shut down until the transformer is cool enough for the thermal switch to close.

The heatsink temperature is reported via U106. This device delivers a current proportional to the absolute temperature that is set to $1 \mu \mathrm{~A}$ per ${ }^{\circ} \mathrm{K}$ of heatsink temperature by R191. (U106 is attached to the heatsink with electrically insulating and thermally conducting epoxy.) This current is delivered through R190 to develop a voltage at the anode of D119. This voltage is then used to adjust fan speed control, and will also
activate relay K100 and the mute circuitry if the heatsink reaches dangerous levels.

### 3.8.3 Low-Frequency and Short-Circuit Protection

The output of the error amp is monitored by the window comparator, U102-B. The window comparator is designed to detect a LF (Low Frequency) condition. When this condition is detected, the comparator U5-A changes state and the amplifier goes into fault mode.

If the output signal remains in a DC condition for enough time to charge C123 through R185 to a value above the threshold of the bilateral switch Q132, then Q132 will conduct and turn on TRIAC Q131. Q131 will remain on until the voltage at Q131-2 reaches within a few volts of ground and C123 discharges enough to turn Q132 off. The detection circuit of C123 and R185 is designed to only allow Q131 to turn on during a fault condition, but it is possible to trip the circuit with a rail-to-rail square wave of $5-\mathrm{Hz}$. If an output device faults, typically the rail will short through the output device to the output. Q131 will then turn on and short the rail through the shorted output to ground. This will prevent the DC voltage from destroying the load. R184 is used as a path to ground for any leakage current from Q132 that may build up charge on Q131-G.

### 3.8.4 Input Compressor

The output of the error amp is monitored by the window comparator, U102-D. Since the gain from the error amplifier output is fixed at 20, the maximum amplitude of the error amplifier is known, and any clipping will cause the error amplifier to exceed this maximum value. The window is designed to detect this maximum value plus a predetermined tolerance. When this value is exceeded, the output of the comparator goes low.

U101-D, Q100 and U100 are the major components comprising a fast-attack, slow-decay circuit used to compress the signal coming out of the VGS. This compression action only occurs when the output of the comparator, U102-D, detects clipping on the output of the error amp. It is important to note that in the event of a signal being clipped at the error amp, not only is the compressor activated, but, the red clip LED is also turned on. In this way the amplifier will not produce a distorted output, but will visually inform the user that the input signal is too large and is being compressed.

### 3.8.5 Turn-On Delay

U104-A provides a time delay after turn-on to let the rails stabilize before connecting the load to the amplifier output. The block diagram in Figure 3.2 shows that, while the turn-on delay circuit is active, the amplifier is in fault mode.

### 3.8.6 Output Relay Muting

The relay K 100 is in series with the output of the amplifier. The relay coil is connected to U104-A, U104-B and U104-C; these inputs determine if the relay should be open (disconnecting the load from the amplifier) or closed. The fault conditions which drive the relay inputs are outlined in Figure 3.2 and listed here.

1. Heat sink exceeds thermal limit
2. Transformer exceeds thermal limit
3. A short has been applied to the
output
4. There is DC on the output
5. The turn-on timer has not released the relay yet

### 3.8.7 Input Muting

The summed output from U104-A,B,C is also used to drive an inverter, U104-D, that mutes the input to the error amplifier via Q133. Q133 is a FET, which can open faster than the relay can. This saves the relay, K100, from having to switch high currents which can erode the contact surfaces.

### 3.8.8 Auxiliary Output Jack

The auxiliary output jack allows for remote monitoring of the amplifier's fault status. The concept of the auxiliary output jack is to short two pins of a common RJ11 connector (J5) together through a transistor any time that the amplifier is operating normally. If the amplifier is off or in any fault condition, the two pins on J5 will effectively be an open circuit.

### 3.9 Fan Control Circuitry

There are two different kinds of input to the fan speed control. One is the heatsink temperature and the other is the input from the transformer thermal switch. The heatsink temperature is reported via U106, which is thermally connected to the heaksink. The current from U106 is delivered through R190 to develop a voltage at the anode of D119. D119 is used as part of an OR gate with channel 2 and with the transformer thermal sense.

As the reported heatsink and/or transformer temperature rises, the Darlington transistors, Q1 and Q2, are turned on harder. So, a thermally proportional voltage is supplied to the fan, allowing it to run faster as the reported temperatures increase. However, if all of the reported temperatures are below a set threshold level, the transistors Q1 and Q2 will be biased off, hence cutting off the supply voltage to the fan. This results in lower power consumption and lower noise levels during times of low-power operation.

## 4 Neutrik Connectors

The CE-Series of amplifiers uses Neutrik Speakon connectors for the outputs. While the Reference Manual contains detailed instructions on how to assemble these connectors, we thought we would include the information here as well. This may help in troubleshooting problems that may have arisen from incorrect assembly.


Fig. 4.1
Order of Assembly for the Neutrik Speakon NL4FC Connector
You will need two (2) Neutrik Speakon® NL4FC connectors to interface with this amplifier. ${ }^{*}$ You will also need high-quality two- or four-conductor speaker cable with the appropriate end-connectors to fit the inputs on your speakers, a pair of needle-nosed pliers and a $1.5-\mathrm{mm}$ hex key to assemble the Speakon connectors.

To assemble the Neutrik Speakon NL4FC connector, complete the following steps:
Slide the bushing (E) and chuck (D) onto the end of the cable as shown (Figure 4.1).**
Strip approximately $3 / 4$-inch ( 19 -mm) of casing from the cable end. Strip approximately $1 / 4$-inch ( 6 -mm) from the end of each of the conductors down to bare wire.
Slide the end sleeves (C) onto the wire ends and crimp in place.

[^0]

Fig. 4.2
Wiring for the Neutrik Speakon NL4FC Connector
Insert each wire with end sleeve into the top of appropriate slot of the connector insert (B) as shown in Figure4.2. Use a $1.5-\mathrm{mm}$ hex key inserted into each side slot to tighten the connection.
If the Mode switch is in the "Stereo" position (for stereo configuration), connect the positive (+) and negative (-) leads of each wire to the appropriate Channel 1 and Channel 2 connectors as shown in Figure 4.3. You may use all 4 poles of the Channel 1 output connector to feed both speakers, if you wish.


Fig. 4.3
Stereo Output Wiring
If the Mode switch is in the "Bridge" position (for mono configuration), connect the load across the (+) terminals of the connector as shown in Figure 4.4. For Bridge-Mono Mode, non-inverting output, Ch1+ is the positive (+) and Ch2+ is the negative (-).


Fig. 4.4
Bridge-Mono Output Wiring

Never short or parallel the output channels of a CE－Series amplifier to itself or any other amplifier．

Slide the connector insert（B）into the connector housing（A），making sure that the large notch on the outer edge of the insert lines up with the large groove on the inside of the connector housing．The insert should slide easily through the housing and out the other side until it extends approximately $3 / 4$－inch（19－ mm ）from the end of the housing（see Figure 4．5）．


Fig． 4.5
Detailed Neutrik Speakon NL4FC Connector Assembly：Insert into Connector Housing

Slide the chuck（D）along the cable and insert into the housing，making sure that the large notch on the outer edge of the chuck lines up with the large groove on the inside of the connector housing．The chuck should slide easily into the insert／housing combination until only approximately $3 / 8$－inch（ 9.5 －mm） of the chuck end extends from the back end of the connector as shown in Figure 4．6．


Fig． 4.6
Detailed Neutrik Speakon NL 4FC Connector Assembly： Chuck into Connector Housing


Fig． 4.7
Detailed Neutrik Speakon NL4FC Connector Assembly： Bushing onto Connector Housing Assembly

Slide the bushing along the cable and screw onto the end of the connector combination as shown in Figure 4．7．Note that the bushing features a special locking con－ struction which will prevent disassembly of the NL4FC connector once this cap is tightened into place．Before tightening，you may want to test the connector to make sure it has been assembled properly．

## Why Speakon？

For amplifiers，the most popular termination device on professional products has been the dual banana（which incidentally was pioneered by Crown with the DC－300 model）．However，recent regulatory requirements in Eu－ rope have outlawed the use of the dual banana plug and forced users to terminate speaker cables with spade lugs or bare ends－an approach that is clearly not ad－ vantageous to the customer who wants to reconfigure his system or quickly change out a defective product．It is possible that similar regulatory controls will appear worldwide over the next few years．
One solution to this problem is to use the Neutrik Speakon ${ }^{\circledR}$ connector．Here at Crown，we wanted to de－ velop a system for you that eliminated the need for spe－ cialized，time－consuming，interface cables．The major loudspeaker manufacturers have been using Speakon connectors for the input termination on their products for several years now，so you can be assured of the connector＇s reliability in the workplace．With Speakon connectors，you can plug straight from the amp to the speaker，and start making those great sounds right away．
The Speakon connector used on this amplifier meets all known safety regulations．Once wired correctly，the con－ nector cannot be plugged in backwards，causing the type of inverted polarity situations that are common with banana hookups．It will provide a safe，secure and reli－ able method of interfacing your amplifier to the load．

## PART II

## Component Documentation

This page left intentionally blank

## 5 Parts

### 5.1 General Information

This section contains an overview of the procedure for ordering parts from Crown's service department. The following section, Section 6, includes schematics used for referencing the circuit board components, exploded views, and parts lists.

Most mechanical and structural items are illustrated and indexed in the exploded view drawings. Where electronic parts are shown in these drawings, the schematic designations are also given.

Electronic parts located on printed circuit boards are illustrated by schematic symbols on the trace side and by component shape symbols on the component side. Where applicable, quantities of parts are also given.

### 5.2 Standard and Special Parts

Many smaller electrical and electronic parts used in the CE-Series amplifiers are stocked by, and available from, electronic supply houses. However, some electronic parts that appear to be standard are actually special. Graded and matched output transistors should always be purchased from Crown Audio. A part ordered from Crown will assure an acceptable replacement. Structural items such as covers and panels are available from Crown only.

### 5.3 Ordering Parts

When ordering parts, be sure to give the amplifier model and serial number and include a description and the Crown Part Number (CPN) from the parts listing. Price quotes are available on request.

### 5.4 Shipment

Shipment will be normally made by UPS or best other method unless you specify otherwise. Shipments are made to and from Elkhart, IN, only. Established accounts with Crown will receive shipment freight prepaid and will be billed. All others will receive shipment on a C.O.D. or pre-payment (check or credit card) basis.

### 5.5 Terms

Normal terms are pre-paid. Net-30 days applies to only those firms having pre-established accounts with Crown. If pre-paying, the order must be packed and weighed before a total bill can be established, after which an amount due will be issued and shipment made upon receipt of pre-payment. New parts returned for credit are subject to a $10 \%$ re-stocking fee. Authorization from the Crown Parts Department must be obtained before returning parts for credit.

Crown is not a general parts warehouse. Parts sold by the Crown Parts Department are solely for servicing Crown products. Part prices and availability subject to change without notice.

This page left intentionally blank

6 Exploded Views, Parts Lists

# See illustration on next page (102632). 

# Obtain CPNs (Crown Part Numbers) from the bill of material following the illustration. The CPNs on the illustration may not be up-to-date. 

Notes: 1) Item 1 assy. is shown with heatsink assys. removed in order to provide clarity.
Assy. CE 1000 Domestic


## Assy．CE 1000 Domestic

| Item | Qty． | Description |  | CPN |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | Chassis，CE 1000／CE 2000 WELD |  | 133817－1 |
| 2 | 8 | $6-32 \times .312$ PNHD TORX TFS SEM BZ |  | 102884－1 |
| 3 | 1 | Fan， $120 \times 120 \times 38 \mathrm{~mm} 24 \mathrm{VDC} \mathrm{NMB}$ | old | 125400－2 |
| 3 | 1 | Fan， $120 \times 120 \times 38 \mathrm{~mm}$ 24VDC 140CFM | new | 133551－1 |
| 4 | 1 | Guard，Fan |  | 102649－1 |
| 5 | 4 | $8-32 \times 1.844$ FLT HD PH BLK STL |  | 103281－1 |
| 6 | 1 | Input Assembly，CE1000 Standard |  | 126773－4 |
| 7 | 4 | M2．9 $\times 9.5 \mathrm{~mm}$ FLT HD PH TFS BZ AB |  | 103175－1 |
| 8 | 1 | IEC Snap IN 15A UL／10A VDE |  | 102650－1 |
| 9 | 1 | \＃10 INT Tooth Lockwasher Zinc |  | A10094－8 |
| 10 | 1 | Wire， 14 GRN \＃10 Ring $\times 5 \times$ FLAG |  | $\begin{aligned} & \text { A12119- } \\ & \text { K050M } \end{aligned}$ |
| 11 | 2 | 10－32 Hex Nut w／Belle |  | A10056－3 |
| 12 | 1 | 35A 400V Bridge Rectifier |  | C 8752－2 |
| 13 | 4 | \＃10 NYL SHLDR Washer \＃10－375－A |  | A10099－7 |
| 14 | 4 | 10－32 $\times 2.875$ PAN HD PH MSCR |  | 125105－1 |
| 15 | 1 | Cover，CE 1000／CE 2000 Top PC |  | 133824－1 |
| 16 | 1 | XFMR，CE 1000 120V 60HZ |  | 101180－2 |
| 17 | 1 | BRKR， 1 Pole 12A Snap－in |  | 102640－1 |
| 18 | 1 | Overlay，CE 1000 Bottom Front |  | 102651－5 |
| 19 | 1 | Switch，Rocker SPST 22A CHAS MT |  | 126459－1 |
| 20 | 1 | Overlay，CE 1000／CE 2000 Top Front |  | 128284－1 |
| 21 | 2 | Knob，CE 1000／CE 2000 Gain Rubberized |  | 102657－1 |
| 22 | X | Permalock MM－115 |  | S 2217－8 |



Note: Item 1 is shown with front face plate removed in order to provide clarity.

Assy. CE 1000 PWA \& Chassis

## Assy. CE 1000 PWA \& Chassis

| Item | Qty. | $\underline{\text { Description }}$ | $\underline{\text { CPN }}$ |
| :--- | :--- | :--- | :---: |
| 1 | 1 | Chassis, CE 1000/CE 2000 WELD/AP/PC/SP |  |
| 2 | 1 | PWA, CE1000 MAIN | $133817-1$ |
| 3 | 8 | 6-32 X .25 Torx Pnhd Nylon | $127451-4$ |
| 4 | 1 | Blank Plate | $132240-10604$ |
| 5 | 2 | Screws | $126730-1$ |

## See illustration on next page (133695-1).



## HS Assy. CE 1000 Isolated Ch. 1

| Item | Qty. | Description | CPN |
| :--- | :--- | :--- | :--- |
| 1 | 1 | Heatsink, CE1000 | $102606-6$ |
| 2 | 1 | 2SC5242 NPN 230V 15A 30MHZ | $103200-1$ |
| 3 | 1 | M3 x 10 TFS 6-32 TORX PNHD SEM BZ | $103233-1$ |
| 4 | 2 | $4-40 \times .437$ TORX PAN HD TFS SEM | $126785-1$ |
| 5 | 2 | NYL .115 SHLDR WSHR | $126017-2$ |
| 6 | 1 | Wire, BLK 5" 6 RING x .25 FAST | A11389-A050K |
| 7 | 1 | Isolator, TO-3 0.16 GOLD C/W | $102577-1$ |
| 8 | 6 | $6-32 \times .312$ TORX PAN HD TFS | $102719-1$ |
| 9 | 4 | NPN, TO-3 MJ21194 PWR | $102659-1$ |

## See illustration on next page (102570-3).



## HS Assy. CE 1000 Isolated Ch. 2

| Item <br> 1 | Qty. <br> 1 |
| :--- | :--- | :--- |
| 2 | 1 |
| 3 | 1 |
| 4 | 4 |
| 5 | 6 |
| 6 | 1 |
| 7 | 2 |
| 8 | 2 |

Description
Heatsink, CE1000
2SC5242 NPN 230V 15A 30MHZ

M3 x 10 TFS 6-32 TORX PNHD SEM BZ
NPN, TO-3 MJ21194 PWR
$6-32 \times .312$ TORX PAN HD TFS
Isolator, TO-3 0.16 GOLD C/W
Wire, BLK 5" 6 RING x . 25 FAST
NYL . 115 SHLDR WSHR
$4-40 \times .437$ TORX PAN HD TFS SEM

CPN
102606-7

103200-1

103233-1
102659-1

102719-1

102577-1
A11389-A050K

126017-2
126785-1

## See illustration on next page (133696-1).



## HS Assy. CE 1000 Non-isolated Ch. 1

| Item | Qty. | Description | CPN |
| :--- | :--- | :--- | :--- |
| 1 | 1 | Heatsink, CE1000 | $102606-6$ |
| 2 | 1 | 2SC5242 NPN 230V 15A 30MHZ | $103200-1$ |
| 3 | 1 | M3 $\times 10$ TFS 6-32 TORX PNHD SEM BZ | $103233-1$ |
| 4 | 6 | $6-32 \times .312$ TORX PAN HD TFS | $102719-1$ |
| 5 | 2 | $4-40 \times .437$ TORX PAN HD TFS SEM | $126785-1$ |
| 6 | 4 | NPN, TO-3 MJ21194 PWR | $102659-1$ |

## See illustration on next page (102572-3).



## HS Assy. CE 1000 Non-isolated Ch. 2

| Item | Qty. | Description | CPN |
| :--- | :--- | :--- | :--- |
| 1 | 1 | Heatsink, CE1000 | $102606-7$ |
| 2 | 1 | 2SC5242 NPN 230V 15A 30MHZ | $103200-1$ |
| 3 | 1 | M3 $\times 10$ TFS 6-32 TORX PNHD SEM BZ | $103233-1$ |
| 4 | 4 | NPN, TO-3 MJ21194 PWR | $102659-1$ |
| 5 | 6 | $6-32 \times .312$ TORX PAN HD TFS | $102719-1$ |
| 6 | 2 | $4-40 \times .437$ TORX PAN HD TFS SEM | $126785-1$ |

# See illustration on next page (102634). 

Obtain CPNs (Crown Part Numbers) from the bill of material following the illustration. The CPNs on the illustration may not be up-to-date.

Notes: 1) Item 1 assy. is shown with heatsink assys. removed in order to provide clarity.
Assy. CE 2000 Domestic


## Assy. CE 2000 Domestic

| Item | Qty. | Description | CPN |
| :---: | :---: | :---: | :---: |
| 1 | 1 | Chassis, CE1000/CE2000 WELD | 133817-1 |
| 2 | 8 | $6-32 \times .312$ PNHD TORX TFS SEM BZ | 102884-1 |
| 3 | 1 | Fan, $120 \times 120 \times 38 \mathrm{~mm}$ 24VDC 118CFM | 133551-1 |
| 4 | 1 | Guard, Fan | 102649-1 |
| 5 | 4 | 8 -32 $\times 1.844$ FLT HD PH BLK STL | 103281-1 |
| 6 | 1 | Input Assembly, CE1000 Standard | 126773-4 |
| 7 | 4 | M2.9 $\times 9.5 \mathrm{~mm}$ FLT HD PH TFS BZ AB | 103175-1 |
| 8 | 1 | IEC Snap In 15A UL/10A VDE | 102650-1 |
| 9 | 1 | \#10 INT Tooth Lockwasher Zinc | A10094-8 |
| 10 | 1 | Wire, 14 GRN \#10 Ring $\times 5 \times$ FLAG | A12119K050M |
| 11 | 2 | 10-32 Hex Nut w/Belle | A10056-3 |
| 12 | 1 | 35A 400V Bridge Rectifier | C 8752-5 |
| 13 | 4 | \#10 NYL SHLDR Washer \#10-375-A | A10099-7 |
| 14 | 4 | 10-32 $\times 2.875$ PAN HD PH MSCR | 125105-1 |
| 15 | 1 | Cover, CE 1000/CE 2000 Top PC | 133824-1 |
| 16 | 1 | BRKT, CE 2000 XFMR TOP AP | 133820-1 |
| 17 | 1 | XFMR, CE 2000 120V 60HZ | 101181-3 |
| 18 | 1 | Gasket, CE 2000 XFMR . 125 THK SIL Rubber | 125488-1 |
| 19 | 1 | BRKR, 1 Pole 18A Snap-in | 102641-1 |
| 20 | 2 | 10-32 x . 375 PAN HD PH SEM BZ | 102720-1 |
| 21 | 1 | Overlay, CE 2000 Bottom Front | 102652-5 |
| 22 | 1 | Switch, Rocker SPST 22A CHAS MT | 126459-1 |
| 23 | 1 | Overlay, CE 1000/CE 2000 Top Front | 128284-1 |
| 24 | 2 | Knob, CE 1000/CE 2000 Gain Rubberized | 102657-1 |
| 25 | X | Permalock MM-115 | S2217-8 |



Note: Item 1 is shown with front face plate removed in order to provide clarity.

## Assy. CE 2000 PWA \& Chassis

| Item | Qty. | $\underline{\text { Description }}$ | CPN |
| :--- | :--- | :--- | :---: |
| 1 | 1 | Chassis, CE 1000/CE 2000 WELD/AP/PC/SP | $125612-2$ |
| 2 | 1 | PWA, CE 2000 Main | $102140-6$ |
| 3 | 8 | MSCR, 6-32X.25 TORX PNHD NYLON | $132240-10604$ |

## See illustration on next page (133697-1).



## HS Assy. CE 2000 Isolated Ch. 1

| Item | Qty. | Description | CPN |
| :--- | :--- | :--- | :--- |
| 1 | 1 | Heatsink, CE 2000 | $102607-6$ |
| 2 | 1 | 2SC5242 NPN 230V 15A 30MHZ | $103200-1$ |
| 3 | 1 | M3 x 10 TFS 6-32 TORX PNHD SEM BZ | $103233-1$ |
| 4 | 6 | NPN, TO-3 MJ21194 PWR | $102659-1$ |
| 5 | 10 | $6-32 \times .312$ TORX PAN HD TFS | $102719-1$ |
| 6 | 2 | $4-40 \times .437$ TORX PAN HD TFS SEM | $126785-1$ |
| 7 | 1 | NYL .115 SHLDR WSHR | $126017-2$ |
| 9 | 1 | Wire, BLK 5" 6 RING x .25 FAST | A11389-A050K |
| 9 | Isolator, TO-3 0.16 GOLD C/W | $102577-1$ |  |

## See illustration on next page (102574-3).



## HS Assy. CE 2000 Isolated Ch. 2

| Item | Qty. | Description | $\underline{\text { CPN }}$ |
| :--- | :--- | :--- | :--- |
| 1 | 1 | Heatsink, CE 2000 | $102607-7$ |
| 2 | 1 | 2SC5242 NPN 230V 15A 30MHZ | $103200-1$ |
| 3 | 1 | M3 x 10 TFS 6-32 TORX PNHD SEM BZ | $103233-1$ |
| 4 | 6 | NPN, TO-3 MJ21194 PWR | $102659-1$ |
| 5 | 10 | $6-32 \times .312$ TORX PAN HD TFS | $102719-1$ |
| 6 | 2 | $4-40 \times .437$ TORX PAN HD TFS SEM | $126785-1$ |
| 7 | 1 | NYL .115 SHLDR WASHER | $126017-2$ |
| 8 | 1 | Wire, BLK 5" 6 RING x .25 FAST | A11389-A050K |
| 9 | Isolator, TO-3 0.16 GOLD C/W | $102577-1$ |  |

## See illustration on next page (133698-1).



## HS Assy. CE 2000 Non-isolated Ch. 1

| Item | Qty. | Description | $\underline{\text { CPN }}$ |
| :--- | :--- | :--- | :--- |
| 1 | 1 | Heatsink, CE 2000 | $102607-6$ |
| 2 | 1 | 2SC5242 NPN 230V 15A 30MHZ | $103200-1$ |
| 3 | 1 | M3 $\times 10$ TFS 6-32 TORX PNHD SEM BZ | $103233-1$ |
| 4 | 6 | NPN, TO-3 MJ21194 PWR | $102659-1$ |
| 5 | 10 | $6-32 \times .312$ TORX PAN HD TFS | $102719-1$ |
| 6 | 2 | $4-40 \times .437$ TORX PAN HD TFS SEM | $126785-1$ |

## See illustration on next page (102576-3).

HS Assy. CE 2000 Non-isolated Ch. 2


## HS Assy. CE 2000 Non-isolated Ch. 2

| Item | Qty. | Description | $\underline{\text { CPN }}$ |
| :--- | :--- | :--- | :--- |
| 1 | 1 | Heatsink, CE 2000 | $102607-7$ |
| 2 | 1 | 2SC5242 NPN 230V 15A 30MHZ | $103200-1$ |
| 3 | 1 | M3 $\times 10$ TFS 6-32 TORX PNHD SEM BZ | $103233-1$ |
| 4 | 6 | NPN, TO-3 MJ21194 PWR | $102659-1$ |
| 5 | 10 | $6-32 \times .312$ TORX PAN HD TFS | $102719-1$ |
| 6 | 2 | $4-40 \times .437$ TORX PAN HD TFS SEM | $126785-1$ |

## Assy. CE 1000 Domestic (using PWA 102139-8) Refer to drawing on page 6-2.

| Item | Qty. | Description | CPN |
| :--- | :--- | :--- | ---: |
| 1 | 1 | $\begin{array}{l}\text { Assy, CE1000 PWA \& Chassis } \\ \text { PWA, CE1000 Main/Input }\end{array}$ |  |
|  | 1 | Chassis, CE1000/CE2000 | $125612-3$ |$]$| [NOW 133817-1] |
| :---: |
| 2 |

## Assy．CE 1000 Domestic（using PWA 102139－8）continued Parts NOT shown in drawing on page 6－2：

Item

Qty．

1

1

1
1
3

X

4
8

1

Description CPN
Wire， 14 blk fast fast $\times 4.0 \times$ flag
Wire， 14 blk fast $\times 14 \times$ tab
Wire， 14 blk flag $\times 14 \times$ flag
Wire， 14 grn \＃8ring $\times 5 \times$ flag
Tie，cable 4＂or more 18 lb
Threadlocker，Titan 724250 ML
Screw，6－32X． 312 Torx Pnhd Sem
Mscr，6－32x． 25 Torx Pn Hd Sem
Serffan 120x120x38mm24VDC118CFM
Chas，CE1000 PWA \＆
Clip，D390 Breaker Mounting
Switch，rocker SPST 22A Chas Mt

A11384－C040M A11384－C140N A11384M140M A12119－N050M

C 1811－6
S 2217－8 103415－70605

103435－70604 125400－1

125432－4
125476－2
126459－1

# Assy. CE 1000A Domestic (using PWA 102139-8) Refer to drawing on page 6-2. 

| Item | Qty. | Description | CPN |
| :---: | :---: | :---: | :---: |
| 1 | 1 | Assy, CE1000 PWA \& Chassis |  |
|  | 1 | PWA, Main/input CE1000A | 127451-4 |
|  | 1 | Chas, CE1000A/CE2000A Charcoal | 126729-5 |
| 2 | 8 | [was Screw, 6-32X.312 Torx Pnhd Sem] | [was103433-70605] |
| 3 | 1 | Fan, $120 \times 120 \times 38 \mathrm{~mm} 24 \mathrm{VDC}$ 140CFM | 133551-1 |
| 4 | 1 | Guard, Fan | 102649-1 |
| 5 | 4 | $8-32 \times 1.844$ FLT HD PH BLK STL | 103281-1 |
| 6 | 1 | Asm, CE1000/2000A Input | 126773-4 |
| 7 | 4 | M2.9 $\times 9.5 \mathrm{~mm}$ FLT HD PH TFS BZ AB | 103175-1 |
| 8 | 1 | IEC Snap IN 15A UL/10A VDE | 102650-1 |
| 9 | 1 | [was \#10 INT Tooth Lockwasher Zinc | [ was A10094-8] |
| 10 | 1 | Wire, 14 GRN Flagx5xring | A12119-M050N |
| 11 | 2 | 8-32 Hex Nut w/Belle | A11056-2 |
| 12 | 1 | 35A 400V Bridge Rectifier | C 8752-2 |
| 13 | 4 | \#10 NYL SHLDR Washer \#10-375-A | A10099-7 |
| 14 | 4 | 10-32 $\times 2.875$ PAN HD PH MSCR | 125105-1 |
| 15 | 1 | [was Cover, CE 1000/CE 2000 Top PC\} | [was 125178-1] |
| 16 | 1 | XFMR, CE 1000 120V 60HZ | 101180-2 |
| 17 | 1 | BRKR, 1 Pole 12A Snap-in | 102640-1 |
| 18 | 1 | [was Overlay, CE 1000 Bottom Front] | [was 102651-2] |
| 19 | 1 | Switch, Rocker SPST 22A Chas Mt | 126459-1 |
| 20 | 1 | [was Overlay, CE 1000/CE 2000 Top Front] | [was 125349-1] |
| 21 | 2 | [was Knob, CE 1000/CE 2000 Gain Rubberized] | [was 102657-1] |
| 22 | X | [was Permalock MM-115] | [was S 2217-8] |

## Assy. CE 1000A Domestic (using PWA 102139-8) continued Parts NOT shown in drawing on page 6-2:

Item

| Qty. | Description | CPN |
| :--- | :--- | ---: |
| 1 | Wire, 14 blk fast fast $\times 4.0 \times$ flag | A11384-C040M |
| 1 | Wire, 14 blk fast $\times 14 \times$ tab | A11384-C140N |
| 1 | Wire, 14 blk flag $\times 14 \times$ flag | A11384M140M |
| 1 | Wire, 14 grn \#8ring $\times 5 \times$ flag | A12119-N050M |
| 3 | Tie, cable 4" or more 18 lb | C 1811-6 |
| X | Threadlocker, Titan 7242 50 ML | S 2217-8 |
| 8 | Mscr, 6-32x.25 Torx Pn Hd Sem | $103435-70604$ |
| 1 | Pnl, CD output blank | $126730-1$ |
| 1 | Clip, D390 Breaker Mounting | $125476-2$ |
| 1 | 25OD $\times .18$ ID $\times 1.062$ AL SPCR | A10100-50 |
| 1 | 8-32x3/8 pnhd T15 Thdrol sem b | $126979-1$ |
| 1 | 6-32x.31 pnhd acr ph tr isem b | $127436-1$ |
| 1 | Serf PWA, CE1000 Main/input | $02129-11$ |

## Assy. CE 2000 Domestic (Using PWA 102140-8)

## Refer to diagram on page 6-14.

| Item | Qty. | Description | CPN |
| :---: | :---: | :---: | :---: |
| 1 | 1 | Assy, CE 2000 PWA \& Chassis |  |
|  | 1 | PWA, CE2000 Main/input | 102140-8 |
|  | 1 | Chassis, CE1000/CE2000 | 125612-3 |
| 2 | 8 | [was 6-32 x . 312 PNHD TORX TFS SEM BZ] | [was 102884-1] |
| 3 | 1 | Fan, $120 \times 120 \times 38 \mathrm{~mm}$ 24VDC 140CFM | 133551-1 |
| 4 | 1 | Guard, Fan | 102649-1 |
| 5 | 4 | 8-32 x 1.844 FLT HD PH BLK STL | 103281-1 |
| 6 | 1 | Asm, CE1000/CE2000 input | 126773-3 |
| 7 | 4 | M2.9 $\times 9.5 \mathrm{~mm}$ FLT HD PH TFS BZ AB | 103175-1 |
| 8 | 1 | IEC Snap In 15A UL/10A VDE | 102650-1 |
| 9 | 1 | [was \#10 INT Tooth Lockwasher Zinc] | [was A10094-8] |
| 10 | 1 | [was Wire, 14 GRN \#10 Ring $\times 5 \times$ FLAG] | [was A12119-K050M] |
| 11 | 2 | 8-32 Hex Nut w/Belle | A11056-2 |
| 12 | 1 | 35A 400V Bridge Rectifier | C 8752-2 |
| 13 | 4 | \#10 NYL SHLDR Washer \#10-375-A | A10099-7 |
| 14 | 4 | 10-32 $\times 2.875$ PAN HD PH MSCR | 125105-1 |
| 15 | 1 | [was Cover, CE 1000/CE 2000 Top PC] | [was 125178-1] |
| 16 | 1 | BRKT, CE 2000 XFMR TOP AP | 102679-3 |
| 17 | 1 | XFMR, CE2K 120 V 60Hz w/bellybnd | 101181-3 |
| 18 | 1 | Gasket, CE 2000 XFMR . 125 THK SIL Rubber | 125488-1 |
| 19 | 1 | BRKR, 1 Pole 18A Snap-in | 102641-1 |
| 20 | 2 | 10-32 x . 375 PAN HD PH SEM BZ | 102720-1 |
| 21 | 1 | [was Overlay, CE 2000 Bottom Front] | [was 102652-2] |
| 22 | 1 | Switch, Rocker SPST 22A CHAS MT | 126459-1 |
| 23 | 1 | [was Overlay, CE 1000/CE 2000 Top Front] | [was 125349-1] |
| 24 | 2 | [was Knob, CE 1000/CE 2000 Gain Rubberized] | [was 102657-1] |
| 25 | X | Permalock MM-115 | S 2217-8 |

## Assy. CE 2000 Domestic (using PWA 102140-8) continued

 Parts NOT shown in drawing on page 6-14:| Item | Qty. | Description | CPN |
| :---: | :---: | :---: | :---: |
|  | 1 | Wire, 14 blk fast fast $\times 4.0 \times$ flag | A11384-C040M |
|  | 1 | Wire, 14 blk fast $\times 14 \times$ tab | A11384-C140N |
|  | 1 | Wire, 14 blk flag $\times 14 \times$ flag | A11384M140M |
|  | 1 | Wire, 14 grn \#8ring $\times 5 \times$ flag | A12119-N050M |
|  | 3 | Tie, cable 4" or more 18 lb | C 1811-6 |
|  | X | Threadlocker, Titan 724250 ML | S 2217-8 |
|  | 8 | Mscr, 6-32x. 25 Torx Pn Hd Sem | 103435-70604 |
|  | 1 | Clip, D390 Breaker Mounting | 125476-2 |
|  | 1 | $375 \times 205 \times 250$ nylon spacer | A10101-18 |
|  | 1 | Wire, 14 grn flagx5xring | A12119-M050N |
|  | 4 | Screw, 6-32x. 312 torx pnhd sem | 103415-70605 |
|  | 4 | Sems, 6-32x. 31 torx pnhd star | 103433-70605 |
|  | 1 | Serffan120x120x38mm24VDC118CFM | 125400-1 |
|  | 1 | Chas, CE2000 PWA \& | 125433-4 |

## Assy. CE 2000A Domestic (Using PWA 127452-4)

 Refer to diagram on page 6-14.| Item | Qty. | Description | CPN |
| :---: | :---: | :---: | :---: |
| 1 | 1 | Assy, CE 2000A PWA \& Chassis |  |
|  | 1 | PWA, Main/input CE2000 | 127452-4 |
|  | 1 | Chas, CE1000A/CE20000A charcoal | 126729-5 |
| 2 | 8 | [was 6-32 x. 312 PNHD TORX TFS SEM BZ] | [was 102884-1] |
| 3 | 1 | Fan, $120 \times 120 \times 38 \mathrm{~mm} 24$ VDC 140CFM | 133551-1 |
| 4 | 1 | Guard, Fan | 102649-1 |
| 5 | 4 | 8-32 x 1.844 FLT HD PH BLK STL | 103281-1 |
| 6 | 1 | Asm, CE1000/2000A input | 126773-4 |
| 7 | 4 | M2.9 $\times 9.5 \mathrm{~mm}$ FLT HD PH TFS BZ AB | 103175-1 |
| 8 | 1 | IEC Snap In 15A UL/10A VDE | 102650-1 |
| 9 | 1 | [was \#10 INT Tooth Lockwasher Zinc] | [was A10094-8] |
| 10 | 1 | [was Wire, 14 GRN \#10 Ring $\times 5 \times$ FLAG] | [was A12119-K050M] |
| 11 | 2 | 8-32 Hex Nut w/Belle | A11056-2 |
| 12 | 1 | 35A 400V Bridge Rectifier | C 8752-2 |
| 13 | 4 | \#10 NYL SHLDR Washer \#10-375-A | A10099-7 |
| 14 | 4 | 10-32 $\times 2.875$ PAN HD PH MSCR | 125105-1 |
| 15 | 1 | [was Cover, CE 1000/CE 2000 Top PC] | [was 125178-1] |
| 16 | 1 | BRKT, CE 2000 XFMR TOP AP | 102679-3 |
| 17 | 1 | XFMR, CE2K 120 V 60Hz w/bellybnd | 101181-3 |
| 18 | 1 | Gasket, CE 2000 XFMR . 125 THK SIL Rubber | 125488-1 |
| 19 | 1 | BRKR, 1 Pole 18A Snap-in | 102641-1 |
| 20 | 2 | 10-32 x . 375 PAN HD PH SEM BZ | 102720-1 |
| 21 | 1 | [was Overlay, CE 2000 Bottom Front] | [was 102652-2] |
| 22 | 1 | Switch, Rocker SPST 22A CHAS MT | 126459-1 |
| 23 | 1 | [was Overlay, CE 1000/CE 2000 Top Front] | [was 125349-1] |
| 24 | 2 | [was Knob, CE 1000/CE 2000 Gain Rubberized] | [was 102657-1] |
| 25 | X | Permalock MM-115 | S 2217-8 |

## Assy. CE 2000A Domestic (using PWA 127452-4) continued Parts NOT shown in drawing on page 6-14:

| Item | Qty. | Description | CPN |
| :---: | :---: | :---: | :---: |
|  | 1 | Wire, 14 blk fast fast $\times 4.0 \times$ flag | A11384-C040M |
|  | 1 | Wire, 14 blk fast $\times 14 \times$ tab | A11384-C140N |
|  | 1 | Wire, 14 blk flag $\times 14 \times$ flag | A11384M140M |
|  | 1 | Wire, 14 grn \#8ring $\times 5 \times$ flag | A12119-N050M |
|  | 3 | Tie, cable 4" or more 18 lb | C 1811-6 |
|  | X | Threadlocker, Titan 724250 ML | S 2217-8 |
|  | 8 | Mscr, 6-32x. 25 Torx Pn Hd Sem | 103435-70604 |
|  | 1 | Clip, D390 Breaker Mounting | 125476-2 |
|  | 1 | $375 \times 205 \times 250$ nylon spacer | A10101-18 |
|  | 1 | Wire, 14 grn flagx5xring | A12119-M050N |
|  | 1 | . $250 \mathrm{D} \times .18 \mathrm{ID} \times 1.062 \mathrm{AL} \mathrm{spcr}$ | A10100-50 |
|  | 1 | Pnl, CD output blank | 126730-1 |
|  | 2 | 8-32×3/8 pnhd T15 thdrol sem b | 126979-1 |
|  | 4 | 6-32x. 31 pnhd acr ph tr isem b | 127436-1 |
|  | 1 | 7.5: cable tie\&clamp | C 1813-2 |
|  | 1 | Serf PWA, CE2000 Main/input | 102140-11 |

## 7 Module and Schematic Information

### 7.1 General Information

Since the introduction of the CE series family of amplifiers there have been several updates and revisions. Many of these changes called for new modules. The following pages list all modules used as of the printing of this manual, along with suggested service replacements for obsolete modules where applicable. Call the Crown Technical Support Group if you require a parts list or schematic for a module not included in this manual.
The schematics referenced and provided are representative only. There may be slight variations between amplifier to amplifier. These schematics are intended to be used for troubleshooting purposes only.
Note on circuit board designations: Crown circuit boards are referenced with a PWA and/or PWB part number. PWA stands for Printed Wire Assembly. This is the completed circuit board with all components assembled. PWB stands for Printed Wire Board. This is the circuit board only, without components.

### 7.2 CE-1000, UT-1010, M-120, S2

### 7.2.1 Main PWAs:

## 102139-5

Main PWA built on 102138-5 PWB. Used only in early CE-1000. Use 127451-4 as service replacement.

102139-6
Main PWA built on 102138-6 PWB. Replaced 1021395. Use 127451-4 as service replacement.

## 102139-8

Main PWA built on 102138-8 PWB. Replaced 102138-
6. First main module with sensitivity switch. Use 127451-

4 as service replacement.

## 102139-9

Main PWA built on 102138-9 PWB. Used only in export models. Added 0.775 V sensitivity. Use 127451-4 as service replacement.

## 102139-11

Main PWA built on 102138-9 PWB. Used only in export models. Includes bootstrap update. Use 127451-4 as service replacement.

## 127451-4

Special service replacement PWA. Used as replacement for all PWAs. Comes with other assortment of parts which may need to be replaced in the amplifier depending on version of original main PWA. (refer to instruction sheet shipped with PWA).

## 127353-1

Main PWA built on 102138-9 PWB. Added 0.775 V sensitivity. Use 127451-4 as service replacement.

## 127353-2

Main PWA built on 102138-9 PWB. Includes bootstrap update. Use 127451-4 as service replacement.

### 7.2.2 Input PWA:

## 102689

Original input PWA built on 102688 PWB. Included sensitivity switch.

## 126883

Input PWA built on 127004 PWB. Used with main PWAs starting with 102139-8.Sensitivity switch was removed, and moved to the main PWA. Use 127049-1 as service replacement, which is PWA 126883 with new faceplate.

### 7.2.3 Schematic Diagrams <br> Main PWA

For main PWAs 102139-5 or 102139-6 refer to schematic 102141 F .

For main PWA 102139-8 refer to schematic 102141 J.
For main PWA 102139-9 refer to schematic 102141 L.
For main PWA 127321-1 refer to schematic 102141 M.
For main PWAs 127353-1 or 127353-2 refer to schematic 102141 M .

## Input Module

For input PWA 102689 refer to schematic 102567.
For input PWA 126883 refer to schematic 127014.

### 7.3 CE-1000A

### 7.3.1 Main/Input PWA:

127451-4
Main/input PWA built on 127450-1 PWB.

### 7.3.2 Schematic Diagrams

## Main PWA

For main PWA 127451-4 refer to schematic 127451-4.

### 7.4 CE-2000, UT-2020, M-240, S3

### 7.4.1 Main PWA:

102140-5
Main PWA built on 102138-5 PWB. Used only in early CE-2000. Use 127452-4 as service replacement. 102140-6
Main PWA built on 102138-6 PWB. Replaced 102139-5. Use 127452-4 as service replacement.

## 102140-8

Main PWA built on 102138-8 PWB. Replaced 1021386. First main PWA with sensitivity switch. Use 127452-4 as service replacement.

## 102140-9

Main PWA built on $102138-9$ PWB. Added 0.775 V sensitivity. Used only in export models. Use 127452-4 as service replacement.

## 102140-11

Main PWA built on 102138-9 PWB. Used only in export models. Includes bootstrap update. Use 127452-4 as service replacement.

## 127452-4

Special service replacement PWA. Used as replacement for all PWA. Comes with other assortment of parts which may need to be replaced in the amplifier depending on version of original main PWA. (refer to instruction sheet shipped with PWA).

## 127354-1

Main PWA built on 102138-9 PWB. Added 0.775 V sensitivity. Use 127452-4 as service replacement.

## 127354-2

Main PWA built on 102138-9 PWB. Includes bootstrap update. Use 127452-4 as service replacement.

### 7.4.2 Input Module:

102690
Original input PWA built on 102688 PWB. Included sensitivity switch.

126883
Input PWA built on 127004 PWB. Used with main PWAs starting with 102139-8. Sensitivity switch was removed, and moved to the main PWA. Use 127049-1 as service replacement, which is PWA 126883 with new faceplate.

### 7.4.3 Schematic Diagrams <br> Main PWA

For main PWAs 102140-5 or 102140-6 refer to schematic 102141F.

For main PWA 102140-8 refer to schematic 102142 J.

For main PWA 102140-9 refer to schematic 102142 L.

For main PWA 127354-1 or 127354-2 refer to schematic 102142 M .

## Input PWA

For input PWA 102690 refer to schematic 102568.
For input PWA 126883 refer to schematic 127014.

### 7.5 CE-2000A

### 7.5.1 Main/Input PWA:

127452-4
Main/input PWA built on 127450-1 PWB.

### 7.5.2 Schematic Diagrams <br> Main/Input PWA

For main/input PWA 127452-4 refer to schematic 127452-4.

This page left intentionally blank

The following pages provide parts lists for modules used in the CE Series amplifiers, along with component maps to help locate individual parts. Schematics are located in the back of the manual.

## 102139 rev H

## PWA, Main CE1000

PWB part number 102138-6
PWA part number 102139-6
Schematic Drawing number 102141 rev F

| $\begin{aligned} & \text { E.C.N. } \\ & \text { D.C.N. } \end{aligned}$ | 2cats | $\begin{array}{\|c\|} \hline \pi \in v . \\ \hline E \end{array}$ | DEsCAtPTION | date | Er | APPAOVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Date | ar | C-TX |  | E | PE |
|  |  |  | NOTE 2 WAS 192130-4. NOTE 3 mas 102139-4. | 11,20/97 | TLA | Kw |  |  | Ts |
| $\begin{gathered} \text { DCNF } \\ \text { ©7 Dasel } \end{gathered}$ |  | $F$ |  <br>  LEEEND TO SHF to CONPONHNT MNF, CONMETED C2S CFN ON EMTEET E. GYED ITEM 2 ON sitet 10 con Owent <br>  | 12/12/97 | TLA | Kw |  |  | TS |
| \| DCN: |  | 6 | NOTE 2 WAS IB2138-8. NDTE 3 WAS 102139-8. N1 WAS A1137i-1025. H2 WAS A11371-2223. <br>  ADPED A7. | -1-80-90 |  | T |  |  | T3 |
| $\begin{gathered} \text { DCNE } \\ \text { SEDSest } \end{gathered}$ |  | H |  | -1-18-90 | rL | $k_{w}$ |  |  |  |

MDTES:


PWA PABY Mumben 102138-6.
THE PWA SMALL MEET TKE IPC-A-8i


7. COLPONENTS THAF WAVE in; AFTEN THE1R MAP LCCATION

 IN MOLET




 felay vent male witl barace The melay.
 To wet AND UPb nissplerficly.

 ce Pemmantint.





12b. wIX OUTPUY EPOXY AND ACCELEAATOM TOEETMEA.










14. INSTALL 13 COwnETOR AS 5HONN ON COMODNET Me


CAUTION
STATIC CAN DAMAGE COMPONENTS!
DO NDT HANDLE
UNLESS WRIST STAAP IS WORN of appanatus on bevices in trout memissicn.

## INACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version


| PARTS L．IST |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION |  | $\begin{array}{\|r\|} \hline \text { QTY } \\ \hline 1 \\ \hline \end{array}$ | REFERENCE DESIGNATION |  |
|  | LEL，BARCODE． <br> B． 250 FASTON．AUTO INSERTABL |  |  | 2 |  |
| 181031－1 |  |  | 2 | WP4，WP5 |  |
| 101571－1 | HDR． 2 POS ， 1 CTR MTA SHRD |  | 1 | J4 |  |
| 101573－1 | HDR， 4 POS ， 1 ETR MTA SHAD |  | 1 | 12 |  |
| 101933－1 | JACK．EP4 COND MODLLAR R／A |  | 1 | J5 |  |
| 10213日－6 | PWG，CE10日0／CE200日 MAIN |  | 1 | 1 |  |
| 102438－101k2 | 100PF 2a0V NPO 0805 T／R |  | 5 | C104． 512 Cl ． 135.5204 .5220. |  |
|  |  |  |  | C235 |  |
| 102430－221k2 | 220PF 20QV $10 \%$ NPO 0805 T／R |  | 2 | C111．c211 |  |
| 102430－560K2 | 56PF 200V 10\％NPO T／R |  | 2 | C106．C206 |  |
| 102438－820K2 | 日2FF 20日V 10\％NPO EBO5 T／R |  | 4 | C10日．C20日．C138． 2238 |  |
| 102465－1 | ．47UF SBV 28\％RADIAL T／A |  | 2 | C101．c2m1 |  |
| 122486－1 | 10UF 250V 20\％RADIAL T／R |  | 1 | C1 |  |
| 102467－1 | 22UF 25V 20\％RADIAL T／R |  | 2 | C183．C203 |  |
| 102488－1 | 47UF 18V 20\％NP RAD T／R |  | 4 | C113．C114．C213．C214 |  |
| 102470－1 | INDUCTOR， $2.75 \cup H / 11 A$ RADIAL |  | 2 | L182．L282 |  |
| 102472－3 | 12POS ． 10 OLTR ASSY SEL ROW |  | 1 | $J 3$ |  |
| 102473－1 | SPEAKON， 4 POLE PCE HORZ |  | 2 | J100．J208 |  |
| 102476－1 | LED．SMT R／A GREEN |  | 3 |  |  |
| 102477－1 | LED．SMT A／A RED |  | 4 | E188．E102．E201R．E2E2 |  |
| 102478－1 | TRIAC DRIVER，SES EV THAESH |  | 2 | 0132．0232 |  |
| 102479－1 | PWR NPN DARLINGTON 190V 2A |  | 2 | 01． 02 |  |
| 102480－1 | MMEF4E5ELT 1 FET 25V SOT－23 |  | 2 | 0133．0233 |  |
| 122481－1 | NPN 25V LOW NOISE SOT－23 |  | 2 | 0180．020日 |  |
| 1024日3－1 | PNP 3QQV 580MA SOT－23 |  | 2 | 0103.0203 |  |
| 1824B6－1 | OPTO 日ST NPN SOIC－B ETA＝1日G\％ |  | 1. | 1.3 |  |
| 122488－1 | SPDT HORIZ SLIDE |  | 1 | 5108 |  |
| 1025E9－1 | HS ASM．T1 ISOLATED CHI．， |  | 1 | H53 |  |
| 102570－1 | HS ASM．T1 ISOLATED CH2．． |  | 1 | HS4 |  |
| 102571－1 | HS ASM．T1 NON－ISOLATED CHI， |  | 1 | HS1 |  |
| 102572－1 | HS ASM，T1 NDN－ISOLATED CHZ． |  | 1 | HS2 |  |
| 102595－2 | 5K LIN 21 DETENT 12 MMM HORIZ |  | 2 | R100，RZOR |  |
| 102608－1 | SPACER．EX． 187 LONG AL |  | 8 | HW1，HW2，HW3．HW4，HW5，HW5． |  |
|  |  |  |  | HW7．HW日 |  |
| 1031日0－1 | BUMPER，0．4＂TALL BLK W／ADH |  | 3 | 7 |  |
| 103191－1 | Q，47UF 59V Z5U 1210 T／R |  | 4 | C121．C124．C221．C224 |  |
| 103192－1 | S0T－223 NPN 300V 509MA 50MHZ |  | 4 | 0107．0110．0287．0210 |  |
| 103193－1 | SOT－223 PNP 300V 500MA 50MHZ |  | 4 | 0105．0120．0205．0220 |  |
| 103199－1 |  |  | 36 | R152．R153，R156，R157，R159． |  |
|  | 0.4 DHM 1W 5\％ 2512 T／R |  |  | Fi67，R16日，R171，A172．R252． |  |
|  |  |  |  | R253．R256，R257，R259，R267． |  |
|  |  |  |  | R267，R268，R271．月272．R300． |  |
|  |  |  |  | R301．R302．R305．R305．F307． |  |
|  |  |  |  | R30，R311，R312，R400，R401． |  |
|  |  |  |  | R402，R405，R406，न407，R40日． |  |
|  |  |  |  | R411，R412 |  |
| 103210－1 | 2．2UF 168V RADIAL T／R |  | 4 | C136．C137，C236．c237 |  |
| 103331－N050R | WIRE， 14 ELK／WHT 3／1EX5．EXT |  | 1 | WP2 |  |
| 125106－1 | MACED $\mathrm{E}^{\text {AMP }} 40 \mathrm{OV}$ TRIAC |  | 2 | 0131.0231 |  |
| 125242－1 | CAF．．625ID X $1^{\prime \prime}$ VINYL |  | 1 | 3 |  |
| 125478－1 | 3．日ЭK0HM D．5W 1\％2010 T／R |  | 2 | R142．R242 |  |
|  |  | CROWN INTERNAT I ONAL INC， |  |  |  |
|  <br>  <br>  |  |  | 98－97 | 182139DHE．NO． <br> 182 <br> SHET ONT ON <br> SHEET | （H） |




| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | DTY | REFERENCE DESIGNATIDN |
|  |  |  | D111．D112．D113．D116．Di17． |
|  |  |  | D11日，D119．D120．D121，D122． |
|  |  |  | Di23．D124．D125．D13．D20t． |
|  |  |  | D202，D203，D204．D205．D206． |
|  |  |  | D297．D20日，D209． 219 10．D211． |
|  |  |  | D212．D213．D216，D217．D218． |
|  |  |  | D221．D222．D223．D224．D225， |
|  |  |  | D9．D128．D127，D128．D129． |
|  |  |  | D226．D227．D220．D229． |
| ㄷ．9896－9 | TEST POINT PCE ．${ }^{\prime \prime}$ ．CTA LOOP | 2 | TP3日，TP39 |
| ¢ 9918－1 | TO220 VERT ELIP－ON HEATSINK | 2 | U1X．U2X |
| C 9931－4 | MMBT5B日7LT1 PNP XSISTOR SOT－ | 6 | Q102．0111．0202．0211．0109． |
|  |  |  | 0209 |
| c10208－4 | 100．UF 25V 20\％RAD ELECT T／R | 2 | C105，C2a5 |
| C10335－5 | RELAY 30A 24V TS日 SEALED CE | 2 | K100，K200 |
| C．10422－1 | DIDDE．ЗA 4010V IN5404 AXIAL | 4 | D114．D115．D214．D215 |
| c10613－5 | $1 \mathrm{KOHM} \mathrm{TOP} \mathrm{ADJUST} \mathrm{TRIMMER} \mathrm{T/}$ | 2 | R134，R234 |
| D 8917－3 | G2RDUF IIDVDC ELECTROLYTIC | 2 | C20．C21 |
| H42902－9 | ASM．THERMAL SENSE | 2 | U106． 1206 |
| 5 5700－0 | 732 RTV RUBEER 18． 3 OZ LLEAR | 0 | 4 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Documen Has Been Replaced
Documen Has Been Replaced


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 1 | 102138－6 | PWE．CE100日／CE20日G MAIN |  |
| 2 | 101016－1 | L日L，BARCODE． |  |
| 3 | 125242－1 | CAP．．625ID X $1^{\prime \prime}$ VINYL |  |
| C1 | 102465－1 | 10UF 250V 20\％RADIAL T／R | J 1 |
| C2 | A11427－104K2 | ．JUF SOV CHIP CAP 10\％0805 $\times 7 \mathrm{R}$ | F 10 |
| C3 | 12550日－1 | 10UF 50V 20\％SMT AL ELEC T／R | 18 |
| C4 | ᄃ 4477－3 | 470 UF 35V VERT | G 10 |
| C5 | C 4477－3 | 470 UF 35 V VERT | G10 |
| C6 | A11427－104K2 | －1UF SEV CHIP CAP 10\％日B05 X7R | H10 |
| C7 | A11427－104K2 | 1UF 50V CHIP CAP 10\％8B05 X7R | H 10＊ |
| C12 | A11427－104K2 | 1 LF 5 QV CHIP CAP 10\％BEB5 X7R | $19 *$ |
| C20 | D 19917－3 |  | C9 |
| L21 | D 8917－3 | 8200UF 110 VDC ELECTROLYTIC | A 9 |
| C22 | C 7091－9 | Q． 33 UF 50V 25L EHIP CAP | N9＊ |
| C24 | A11427－104K2 | ．1UF 50V CHIP CAP 10\％0805 $\times 7 \mathrm{~A}$ | N 10 |
| C25 | A11427－104K2 | ．1LF SQV CHIP CAP 18\％D日®5 $\times 7 \mathrm{R}$ | 0 9＊ |
| C26 | C 8575－日 | 1 BOUF 35V 10\％ALUM ELECT T／A | I 9 |
| C27 | C 5362－6 | 2．2LF SQV VERT ELECT T／A | H 18 |
| C29 | A11427－104K2 | ．TUF 58V CHIP CAP 10\％0ف05 $\times 7 \mathrm{R}$ | J $3 *$ |
| c29 | A11427－184K2 | ．IUF 50V CHIP CAP 10\％0005 X7R | 19 |
| C．181 | 102465－1 | 0.47 LF 50V 20\％RADIAL T／R | Mg |
| C102 | A11427－103K2 | 01 UF SOV 10\％X7R MLC 0005 | M 9 |
| C103 | 102467－1 | 22UF 25V 20\％RADIAL T／R | M 9 |
| C104 | 102438－1日1k2 | 180FF，2DEV．－ 2005 | M 9 ＊ |
| C105 | C10208－4 | 100．UF 25V 20\％RAD ELECT T／A | 19 |
| C186 | 102438－559k2 | 56PF 20®V 10\％NPO 08日S T／A | L． 9 ＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | L ${ }^{\text {c }}$ |
| C10日 | 102438－020K2 | 日2PF 200V 10\％NPO 日ebs T／A | L 16＊ |
| C109 | At 1427－183K2 |  | H6＊ |
| C118 | A11369－471K2 | 470pF 50V 10\％NPO 日日05 5 T／R | M 7 |
| C．111 | 182438－221k2 | 220PF 200V 10\％NPD 0日a5 T／R | N8＊ |
| C112 | A11427－123K2 | E12 50V 18\％X7R 8B05 T／R | $08 *$ |
| C113 | 102458－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C114 | 182458－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C115 | A11427－183K2 | 01 UF $50 V 10 \% \times 7 \mathrm{R}$ MLC 0805 | N ${ }^{\text {¢ }}$＊ |
| L116 | A11427－472K2 | 4780PF 50V 10\％×7R 0日05 T／R | N $7 *$ |
| C117 | A11427－272K2 | 2700PF 50V 10\％，X7R 0805 T／A | I 日＊ |
| C118 | C 8426－6 | 1UF 250V 10\％MEY PGLY RADIAL | 18 |
| C19 | A11427－472K2 | 4700PF 50V 10\％X7R 日日U5 T／A | 18 |
| C120 | 10243日－101K2 | 1日0PF zoov NPO 日abs T／R | $17 *$ |
| C121 | 103191－1 | 0．47 UF 50V Z5以 1210 T／R | $\underline{6}$－ |
| C122 | A11427－104K2 | 1 LF SQV CHIP CAP 10\％0日05 X7R | F 日＊ |
| C123 | C 9157－E | 10QUF 15V 20\％NP ELEC FAD T／R | G 9 |
| C124 | 103191－1 | 0．47UF S0V Z5U $1210 \mathrm{~T} / \mathrm{R}$ | L9＊ |
| Ci26 | A11427－104K2 | 1 LF 50 V CHIP CAP $10 \%$ D005 $\times 7 \mathrm{R}$ | N10＊ |
| C127 | A11427－104K2 | ． 1 UF 50V CHIP CAP 10\％D日D5 $\times 7$ A | M ${ }^{\text {¢ }}$＊ |
| C．128 | A11427－104K2 | ． 1 LF 50V CHIP CAP 10\％0日05 $\times 7$ R | M 10＊ |
| C129 | A11427－104K2 | 1 JFF 5 VV CHIP CAP 10\％0日05 $\times 7 \mathrm{R}$ | M ${ }^{\text {\％}}$ |
| C130 | A11427－184K2 | 1 UF 50V CHIP CAP 10\％8a05 X7R | He＊ |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replaced valha Newer Varsion


| PAATS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C131 | A11427－104K2 | ．1UF 50V LHIP EAP 10\％0日05 $\times 7 \mathrm{R}$ | 67 ＊ |
| C132 | A11427－104K2 | ．1 LF 50V CHIP CAP 10\％8B05 X7R | F7 |
| C133 | A11427－104K2 | ．TUF 50V CHIP CAP 10\％ $0805 \times 7 \mathrm{~A}$ | \％日 |
| C134 | A11369－102J2 | 日日1LF 50V 5\％NPD MLC 0日as T／R | M 7 |
| C135 | 102430－101k2 | 10 OPF 200 V NPO 0B05 T／R | N 7 |
| C136 | 103210－1 | 2．2LF IEOV RADIAL T／R | 17 |
| C137 | 103210－1 | 2．ZUF 1 GDV AADIAL T／R | 17 |
| C13日 | 10243日－820K2 | B2PF $200 \mathrm{~V} 10 \% \mathrm{NFO} 0005 \mathrm{~T} / \mathrm{R}$ | M 7 |
| C139 | A11427－1日4K2 | 1 UF 50V CHIP CAP 10\％OBD5 5 ¢ | N |
| C140 | C 7091－9 | 33 LF SEV 7SU CHIP EAP | L 9 |
| C201 | 102465－1 | 0． 47 LF 50 V 20\％RADIAL T／R | J 9 |
| CzU2 | A11427－103K2 | 01 UF 50V 10\％X 7 R MLC 0805 | K 9 |
| C203 | 102457－1 | 22UF 25V 20\％RADIAL T／R | K 9 |
| C 204 | 18243日－1旦K2 | 100PF 200V NPO D日05 T／R | 59 |
| C205 | C102日日－4 | 10日．LF 25V 20\％RAD ELECT T／R | J 9 |
| C206 | 102438－560K2 | 56PF 200V 10\％NPO 0日85 T／R | J 9 ＊ |
| C207 | A11369－278K2 | 27PF 50V 10\％NPD Da05 T／R | 」 9 |
| C20日 | 102438－820K2 | B2PF 20日V 10\％NPO 日B05 T／R | 」10＊＊ |
| C209 | A11427－103K2 | Q1 UF 50V 10\％$\times 7 \mathrm{P}$ MLC 8805 | H3＊ |
| C210 | A11359－471K2 | 470PF 50V 10\％NPO 0805 T／R | K 7 |
| C211 | 102439－221K2 | 220PF 200V 10\％NPO 0日05 T／R | K 8 |
| C212 | A11427－123K2 | 012 50V 10\％$\times 7$ ¢ 0805 T／R | L ${ }^{\text {¢ }}$ |
| C213 | 10246日－1 | 47UF 10V 20\％NP RAD T／R | K 日 |
| C214 | 1824E8－1 | 47LF 10V 20\％NP RAD T／R | K |
| C215 | A11427－1日3K2 | ． 1. UF 50V 10\％X7R MLC 日日05 | K日＊ |
| C216 | A11427－472K2 |  | 」 2 ＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％X7R 日B05 T／R | D 1 |
| C218 | C 0426－6 | ．1UF 250V $10 \%$ MET POLY RADIAL | 11 |
| C219 | A11427－472K2 | 4780pF 50V 10\％X7R DBDS T／R | E 1 ＊ |
| C220 | 102438－101k2 | 100PF 2日VV NPO DBE5 T／R | D $2 *$ |
| C221 | 103191－1 | 0.47 LF 50V Z5U 1210 T／R | E 8 |
| C222 | A11427－104K2 | 1UF 50V CHIP CAP 10\％QBE5 X7A | E $8 *$ |
| C223 | C 9157－6 | 10GUF 16V 20\％NP ELEC RAD T／A | F 9 |
| C224 | 103191－1 | D． 47 JJF 50 V 25U $1218 \mathrm{~T} / \mathrm{R}$ | J $9 *$ |
| C226 | A11427－184K2 | ．1UF 50V CHIP EAP 10\％DBE5 X7A | L 18＊ |
| C227 | A11427－104K2 | 1 LF 50V LHIP CAP 10\％0905 $\times 7 \mathrm{~A}$ | K ${ }^{\text {¢ }}$ |
| C228 | A11427－104K2 | ．1UF 50V CHIP LAP 10\％ $0805 \times 7 \mathrm{~A}$ | 」10＊ |
| C229 | A11427－104K2 | ．1LF 50V CHIP CAP 10\％01005 $\times 7 \mathrm{R}$ | J $9 *$ |
| C23］ | A11427－104K2 | ．1 UF 50V EHIP EAP 10\％BBU5 X7R | E 8 ＊ |
| C231 | A11427－104K2 | ．1UF 50V CHIP CAP 10\％0日D5 $\times$ ¢ 7 | E 7 |
| C232 | A11427－104K2 | IUF 50V CHIP CAP 10\％BEQS $\times 7$ A | E 7 ＊ |
| L233 | A11427－104K2 | 1UF 50V CHIP CAP 10\％0日05 $\times 7 \mathrm{P}$ | D 8 ＊ |
| ᄃ234 | A）1369－102J2 | DQIUF 50V 5\％NFO MLC 0日Q5 T／R | J 7 ＊ |
| C235 | 102438－101k2 | 100PF 200V NPO 0日05 T／R | J 2 ＊ |
| C236 | 103210－1 | 2．2UF 160V RADIAL T／R | 1 |
| C237 | 183218－1 | 2．2UF 160V RADIAL T／R | 11 |
| c2．38 | 102438－820K2 | 日2PF 200V 10\％NPO 0日as T／R | $J 7 *$ |
| C239 | A11427－104K2 | 1UF 5AV CHIP CAP 10\％0B05 X7R | E7 |
| C240 | C 7091－9 | ． 33 LF 50V 25U CHIP CAP | J 9 |
| D1 | c 2051－1 | RECTIFIEF： 1 N4004 SILICON T／A | 610 |

## MNACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC． |
| D2 | C 2851－1 | RECTIFIER， 1 N4004 SILICON T／R | G 10 |
| D3 | C 2051－1 | REETIFIER， 1 N4004 SILICON T／R | 610 |
| D4 | c 2051－1 | PECTIFIER， 1 N4904 SILICON T／R | ［ 10 |
| D6 | C 2851－1 | RELTIFIER． 1 N4004 5ILICON T／R | J 1 |
| D7 | C 2日51－1 | RECTIFIER，1N4004 SILICON T／R | 18 |
| D日 | c 3543－6 | DIODE，ZENER 10V 1NS248B T／A | J 日 |
| D9 | C 9283－0 | DIODE， 1 N914／1N414日 SOT－23 SMT | I 9 ＊ |
| D10 | C 2851－1 | RECTIFIER， 1 N40D4 51L．IEON T／R | 110 |
| D13 | C 9283－0 | DIDDE．1NS14／1N4148 SOT－23 SMT | $19 *$ |
| D101 | C 9283－0 | DIODE，INS14／1N4148 SOT－23 SMT | N $9 *$ |
| D102 | C 9283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | M 9 ＊ |
| D103 | ᄃ 9283－a | DIODE，1NS94／1N4148 SOT－23 SMT | L $\mathrm{g}^{*}$ |
| D124 | C 92E3－0 | DIODE，1N914／1N4148 SOT－23 SMT | L 9 |
| D105 | c 9283－8 | DIODE，1NS14／1N414日 SOT－23 SMT | L 10\％ |
| D10E | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | N $\mathrm{Na}^{+}$ |
| D107 | C 9283－0 | DIDDE．1N914／1N414日 SOT－23 SMT | N ${ }^{\text {¢ }}$ |
| D168 | C 9283－0 | DIDDE．1NS14／1N414日 SOT－23 SMT | N ${ }^{\text {a }}$ |
| D109 | E 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N ${ }^{\text {H }}$ |
| D110 | C 92日3－0 | DIODE．1NS14／1N414日 SOT－23 SMT | N ${ }^{\text {N }}$ |
| D111 | C 92日3－0 | DIDDE． 1 N914／1N414日 SOT－23 SMT | N日＊ |
| D112 | C 9283－0 | DIODE．1NS14／1N414日 SOT－23 SMT | N ${ }^{\text {N }}$ |
| D113 | C 9293－8 | DIDDE．1NSi4／1N414日 SOT－23 SMT | N ${ }^{\text {a }}$ |
| D114 | ᄃ10422－1 | DIDDE．3A 400V 1 N5404 AXIAL | 16 |
| D115 | C10422－1 | DIODE．ЗA 400 V 1N5494 AXIAL | 15 |
| D116 | C 9283－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | G B＊ |
| D117 | C 9203－0 | DIODE． 1 NST4／1N4148 SOT－23 SMT | M 10＊ |
| D118 | C 9283－0 | DIODE， $1 N 914 / 1 N 4148$ SOT－23 SMT | N $10 *$ |
| D119 | C 9283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | I 9 ＊ |
| D120 | C 9283－0 | DIODE，1NG14／1N4148 SOT－23 SMT | 19 |
| D121 | C 9283－0 | DIODE， 1 NS14／1N414日 SOT－23 SMT | L 9 |
| D122 | ¢ 92e3－a | DIDDE， 1 NSI4／1N414日 SOT－23 SMT | M 10＊ |
| D123 | C 9283－0 | DIDDE，1NG14／1N4148 50T－23 SMT | G $9 *$ |
| D124 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | G 7 |
| D125 | C 9283－8 | DIODE，1N914／1N414日 SDT－23 SMT | H7＊ |
| D126 | C 9203－0 | DIDDE， 1 NS14／1N414日 S0T－23 SMT | N 7 |
| D127 | C 9283－0 | DIODE．1N914／1N4148 SCT－23 SMT | N 7 |
| D128 | C．3283－8 | DIDDE，1N914／1N414日 SDT－23 SMT | H 7 ＊ |
| D129 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | 67 ＊ |
| D201 | C 9203－0 | DIODE，INS14／1N4148 SOT－23 SMT | K 9 ＊ |
| D202 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 9 ＊ |
| D203 | C 9283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | J $9 *$ |
| D204 | C 9283－0 | DIODE，INS14／1N414日，SOT－23 SMT | J $9 *$ |
| D205 | C 9283－8 | DIODE．1N914／1N4148 50T－23 5MT | J 10＊ |
| D226 | C 9283－0 | DIODE．IN914／1N4148 SOT－23 SMT | K B |
| D207 | C 32日3－0 | DIODE．IN914／1N4148 SOT－23 SMT | K 8 ＊ |
| D20日 | ᄃ 9283－0 | DIODE．1NS14／1N414日 SDT－23 SMT | K ${ }^{\text {¢ }}$ |
| D289 | ᄃ 92日3－0 | DIDDE．1N914／1N414日 SOT－23 SMT | K 日＊ |
| D218 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | K ${ }^{\text {K }}$＊ |
| D211 | C 9283－0 | DIODE．INS14／1N4148 SOT－23 5MT | K ${ }^{\text {® }}$ |
| D212 | C 92日3－0 | DIDDE．1NS14／1N414日 SOT－23 SMT | L 8 ＊ |
| D213 | C 9283－0 | DIODE，iN914／1N414日 SOT－23 SMT | L 自＊ |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| $J 4$ | 101571－1 | HDA，2POS ． 1 ［TR MTA SHRD | L 10 |
| J5 | 101993－1 | JACK，6P4 COND MDDULAR R／A | N 10 |
| 1100 | 102473－1 | SPEAKON． 4 POLE PCG HORZ | b 18 |
| J200 | 162473－1 | SPEAKON， 4 POL， | F 10 |
| K100 | C10335－5 | RELAY 30A 24V T98 SEALED CE | 6 B |
| K200 | c1．0335－5 | RELAY 30A 24V T90 SEALED CE | E |
| L100 | C 3510－2 | CHOKE，10\％AXIAL 478 UH TR | N 7 |
| $\underline{L 101}$ | C 3510－2 | CHOKE．10\％AXIAL 470 UH TR | 17 |
| 1102 | 102470－1 | INDUCTOR．2．75UH 11A HADIAL | H |
| L200 | ᄃ 3510－2 | CHOKE．10\％AXIAL 470 UH TR | $J 1$ |
| L2®1 | C 3510－2 | CHOKE，10\％AXIAL 470 LH TR | D 1 |
| L202 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | 11 |
| 01 | 102479－1 | PWR NPN DAFL INGTDN 10̇VV 2A | H 10 |
| 02 | 102479－1 | PWR NPN DARE INGTDN 1gaV 2A | I 10 |
| Q108 | C 744日－1 | MMET39E4 CHIP NPN | M $9 *$ |
| 0181 | C 7448－1 | MMAT3904 CHIP．NPN | M 9 ＊ |
| 0102 | C 5931－4 |  | N 9 |
| 0103 | 1024日3－1 | PNP 300V 500MA SOT－23 | 上10＊ |
| 0104 | C 9252－5 | 2N3904 40V NPN TAANSISTOR T／A | 16 |
| Q125 | 103193－1 | SOT－223 PNP 30日V 509MA 50MHZ | M 8 |
| 0167 | 103192－1 | SOT－223 NPN 300V 50BMA 50MHZ | M ${ }^{\text {\％}}$ |
| 0168 | 102481－1 | NPN 25V LOW NO15E SOT－23 | N ${ }^{\text {® }}$ |
| 0109 | C 9931－4 | MMETSDE7LT1 PNP XSISTOR SOT－23 | N日 |
| 9118 | 103192－1 | SOT－223 NPN 300V 500MA 50MHZ | N 7 ＊ |
| 0119 | C 9931－4 | MM19T50日7LT1 PNP XSISTOA SOT－23 | N 7 |
| 0112 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | N 7 |
| $\square 114$ |  | INSTALLED ON THE PREVIOUS ASSEMBLY | J 6 |
| 0115 |  | INSTALLED ON THE PREVIQUS ASSEMBLY | K 5 |
| 0116 |  | QMITTED FDR THIS ASSEMELY | 16 |
| Q117 |  | OMITTED FDR THIS ASSEMBLY | 15 |
| 0118 |  | INSTALLED ON THE PAEVIDUS ASSEMELY | M 6 |
| 0119 |  | INSTAALLED ON THE PREVIOUS ASSEMEL．Y | N 5 |
| 0120 | 103193－1 | SDT－223 PNP JD日V 500MA 50MHZ | 17 ＊ |
| 0121 |  | INSTALLED ON THE PREVIDUS ASSEMBLY | 17 |
| 0123 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | E 6 |
| 0124 |  | INSTALLED ON THE PREVIOUS ASSEMEBLY | E 5 |
| 0125 |  | OMITTED FOR THIS ASSEMBL Y | F 5 |
| 0126 |  | OMITTED FOA THIS ASSEMBLY | 65 |
| 0127 |  | INSTALLED ON THE PREVIOUS ASSEMELY | H 6 |
| 0128 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | H 5 |
| 0129 | C 7448－1 | MMBT3904 EHIP NPN | G 9 |
| 0131 | 125186－1 | MACSD 8 AMP 4QQV TRIAL | F9 |
| 0132 | 102478－1 | TRIAC DRIVER，SBS BV THRESH | G 8 |
| Q133 | 102480－1 | MMBF4日56LT1 FET 25V SOT－23 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document Has Been Replaced with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．F．N． | DESCRIPTION | MAP LOC． |
| 0200 | C 744日－1 | MMBT3924 CHIP NPN | K 9 ＊ |
| 0201 | C 7448－1 | MMET3904 CHIP NPN | K 9 ＊ |
| 0202 | C 3931－4 | MMET5087LT1 PNP X5ISTOR SOT－23 | L9＊ |
| 0203 | 1024日3－1 | PNP 300V 500MA 50T－23 | J10＊ |
| 0204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR T／A | 13 |
| 0205 | 103193－1 | $50 T-223$ PNP 3日日V S00MA 50 MHZ | J 8 |
| 0287 | 183192－1 | SOT－223 NPN 308V 500MA 5amHz | K 8 ＂ |
| 020日 | 102481－1 | NPN 25V LOW NOISE SOT－23 | K B |
| Q209 | C 9931－4 | MMET50A7LT1 PNP XSISTOA 50T－23 | K日 |
| 0210 | 103192－1 | SOT－223 NPN 300V 5DEMA 50MHZ | 」 $2 *$ |
| 0211 | C 9931－4 | MMMETS0日7LT1 PNP XSISTOA SOT－23 |  |
| 0212 |  | INSTALLED ON THE PREVIOUS ASSEMELY | 12 |
| 0214 |  | INSTALLED ON THE PREVIOUS ASSEMELY | 」 3 |
| 0215 |  | INSTALLED ON THE PREVIOUS ASSEMELY | K 3 |
| Q216 |  | OMITTED FOR THIS ASSEMBLY | L 3 |
| 0217 |  | OMITTED FOR THIS ASSEMBLY | L 3 |
| 0218 |  | INSTALLED ON THE PREVIOUS ASSEMELY | M 3 |
| 0219 |  | INSTALLED ON THE PREVIOUS ASSEMBL．Y | $N 3$ |
| 0220 | 163193－1 | SOT－223 PNP 300V 500MA 50M | D $2 *$ |
| 0221 |  | INSTALLED ON THE PREVIOUS ASSEMELY | D 2 |
| 0223 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | E 3 |
| 0224 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | E 3 |
| 0225 |  | OMITTED FOR THIS ASSEMBLY | F 3 |
| 0226 |  | OMITTED FOR THIS ASSEMBLY | 63 |
| 0227 |  | INSTALLED ON THE PREVIQUS ASSEMELY | H 3 |
| 0228 |  | INSTALLED ON THE PREVIOUS ASSEMGLY | H 3 |
| Q229 | C 7448－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 125186－1 | MACgD E AMP 40QV TAIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER，SES EV THRESH | $F \mathrm{~B}$ |
| $\square 233$ | 102480－1 | MNMF4856LT1 FET 25V SOT－23 | 」 $9 *$ |
| R1 | A11371－2225 | 2．2K OHM 1W $5 \% 2512 \mathrm{~T} / \mathrm{R}$ | J 8 |
| R2 | A11371－2225 | 2．2K DHM iw 5\％2512 T／R | 」 ${ }^{\text {¢ }}$ |
| R3 | A11371－3341 | 330 KDHM ． $1 \mathrm{~W} 5 \%$ 0805 T／R | I 8 ＊ |
| R4 | A11371－3313 | 330 OHM．25W 5\％1210 T／R |  |
| R5 | A1136B－日2511 | 8．25K OHM 日． 1 W 1\％CHIP 0805 | D $8 *$ |
| RL | A113EB－8B711 | B． $97 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ CHIP 0205 | D 日＊ |
| A7 | A11371－2225 | 2．2K OHM 1W 5\％ 2512 T／A | J 8 |
| R日 | A11371－1022 | $1 \mathrm{~K}, 125 \mathrm{~W} 5 \%$ CHIP RES T／A | H 9 ＊ |
| R9 | A1136日－10021 | 10K 1／10W 1\％SMD 0805 T／R | H $9 *$ |
| Fib | A11360－20023 | 20．KOHM ． 25 W 1\％1210 T／R | Hg＊ |
| R1 1 | A11371－3341 | 338 K DHM 0．1W 5\％CHIP 8a0s | I 9 ＊ |
| F12 | A11368－68121 | 68． $1 \mathrm{KOHM} \mathrm{D}$.1 W 1\％CHIP 8805 | $19 *$ |
| R13 | A11371－1011 | 100 OHM．IW 5\％0日85 T／A | $110 *$ |
| R1 14 | A11371－9R21 | 20HM ．1W 5\％0日85 T／R | I 10＊ |
| A15 | A11371－0R21 | 20HM ．1W 5\％0日05 T／A | $110 *$ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％1210 T／R | N9＊ |
| R17 | A1136日－8251！ | B． 25 KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0885 | F 10 |
| R1旡 | A1136日－62511 | 日． 25 KOHM ．IW 1\％CHIP O日O | D 旦 ${ }^{\text {c }}$ |
| R19 | A11371～3313 | 330 OHM ． 25 WW ． $1210 \mathrm{~T} / \mathrm{R}$ | 11 ＊ |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replaced with a Nower versior


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| R20 | A1136日－57621 | 57．5K． 0.10 W 1\％MF 0日05 | 9 |
| R2 1 | A11368－12121 | 12．1K． 1 W W\％日e05 T／A | 19 |
| R22 | A11368－39231 | 392 KOHM ，iW 1\％0005 T／A | 9 |
| F23 | A11368－39231 | 392 KOHM 1 W 1\％ 0905 T／A | 9 |
| R24 | A11368－57621 | 57．6K，0．10W 1\％MF QBe5 | 19 |
| P25 |  | 10日．KOHM ．IW 1\％CHIP D805 | N 9 |
| R26 | A11371－3341 | $330 \mathrm{KOHM} .1 \mathrm{~W} 5 \% 0005$ T／R | A 10＊ |
| R27 | A1136日－10021 | 10K 1／10W 1\％SMD 0日0 ${ }^{\text {¢ }}$ T／R | L． 9 ＊ |
| R26 | A11371－7511 | 750 OHM ． $1 \mathrm{~W} 5 \%$ 日Be5 T／R | L 9 |
| R29 | A11371－4751 | 4．7MEODHM，0．10W 5\％MF D日05 | 19 |
| A188 | 102595－2 | 5K．－DETENT | L 1 |
| R101 | A1136日－18021 | 10K 1／10W $1 \%$ SMD 日aC5 T／R | M 10 |
| R192 | A11368－39231 | 392 KOHM ． $1 \mathrm{~W} 1 \%$ CHIP $\mathrm{COD5}$ | N ${ }^{\text {c }}$ |
| R183 | A1136B－49301 | 499 OHM ．1 W 1\％0805 T／R | N 9 |
| R184 | A11368－18821 | 10K $1 / 10 \mathrm{C}$ 1\％SMD 0005 T／R | N 9 |
| R105 | A11371－6B14 | E日大 OHM． 5 W 5\％2016 T／R | 11 |
| R106 | A1135日－10011 | 1．KDHM ． 1 W 1\％CHIP Qe日S | M 9 |
| R187 | A11368－10021 | 10K 1／10W 9\％SMD 0EQ5 T／R | L10＊ |
| R10日 | A1136B－10021 | 10K 1／10W 1\％SMD D日BS T／R | L 10 |
| R199 | A113E日－19122 | 19．1KOHM ． $125 \mathrm{~W} 1 \%$ CHIP RES | M 9 |
| R110 | A1136日－10011 | 1．KDHM ． 1 W 1\％CHIP QBES | L 9 |
| R111 | A1136日－18021 | 10K 1／10w 1\％SMD 0日05 T／月 | $13^{*}$ |
| R112 | A1138日－19122 | 19．1KOHM ． $125 \mathrm{~W} 1 \%$ CHIP RES | 1 S |
| R113 | A113日日－51111 | 5．11KDHM ．IW 1\％0日85．T／R | L10 |
| R114 | A1136日－82511 | Q．25KOHM ． $1 \mathrm{~W} 1 \%$ EH2P 0805 | L 10 |
| F115 | A11368－68121 | 6日． $1 \times 0 \mathrm{MM}$ O． 1 W 1\％［HIP 08Q | L 10 |
| R116 | A11368－22681 | 225 OHM 0．1W $1 \%$ O日ES T／A | M ${ }^{\text {3＊}}$ |
| R117 | A11371－3341 | 330 KOHM ，i W 5\％D日E5 T／A | M 9 |
| R！ 19 | A11371－3333 | 33 KDHM ． $25 \mathrm{~W} 5 \% .1210$ T／R | M 9 |
| R120 | A11368－50921 | 90．9K． $0.1 \mathrm{BW} 1 \% \mathrm{MF}$ 日Bes | M 9 |
| P122 | A11358－15831 | 158KOHM ．IW 1\％ $0805 \mathrm{~T} / \mathrm{R}$ | N ${ }^{\text {c }}$ |
| P123 | A11368－10831 | 100．KOHM ．1W 1\％CHIP 0日05 | M 9 |
| R124 | A1136日－15031 | 158KOHM ．iw 1\％0005 T／R | M 9 |
| R125 | A1136日－10831 | 100．KOHM ，1 W 1\％EHIP 0日e5 | $\mathrm{N} 9 *$ |
| R126 | A1136日－39231 | $392 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 0885 T／R | M 9 |
| R127 | A11371－8日21 | 6．BKDHM． $1 \mathrm{~W} 5 \%$ CHIP 0905 | N 9 |
| R128 | A11371－6日14 | 680 DHM， $5 \mathrm{~W} 5 \% 2010$ T／R | J ！＊ |
| R129 | A11371－8211 | 日20 DHM ． $1 \mathrm{~W} 5 \%$ 0日05 T／R | N 7 |
| R130 |  | DO NOT INSTALL | 0 |
| R131 |  | DO NOT INSTALL | $\bigcirc{ }^{\circ} \mathrm{H}$ |
| R132 | A11371－2223 | 2．2K D．25W 5\％ 1210 T／R | H E＊ |
| R133 | A11371－7511 | 750 OHM ． 1 W 5\％6805 T／R | H 6 |
| R134 | C10513－5 | 1 KDHM TOP ADJUST TRIMMER T／R | M B |
| R135 | A11371－3923 | 3． 3 K ．25W 5\％1210 T／R | M 7 ＊ |
| R136 | A11371－8201 | 日2 OHM ．1W 5\％8B65 T／R | M 7 |
| R137 | A1136日－49901 | 499 OHM ． 1 W 1\％ 18805 T／R | N N |
| R138 | A）1371－1213 | 128 OHM ． $25 \mathrm{~W} 5 \% 1210 \mathrm{~T} / \mathrm{R}$ | N |
| R1 39 | A1136日－13733 | 137 OHM ．25w $1 \% 1210$ T／R | N N |
| R14E | A11371－3333 | $33 \mathrm{KOHM} .25 \mathrm{~W} 5 \% 1210 \mathrm{~T} / \mathrm{R}$ | N N |
|  |  |  |  |

## TNACTVE

For Reference Use Only
Docurnent Has Been Replaced with a Newer Version

CROWN INTERNATIDNAL INC．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESERIPTION | MAP LOC． |
| 9141 | A11371－8211 | B20 OHM ．IW 5\％0日05 T，${ }^{\text {a }}$ | 口 ${ }^{\text {® }}$ |
| R1 42 | 125478－1 | 3．B3KOHM 0．5W 1\％201日 T／R | O日＊ |
| R143 | A11371－3333 | $33 \mathrm{KOHM} .25 \mathrm{~W} 5 \% 1218 \mathrm{~T} / \mathrm{R}$ | N目＊ |
| R144 | A11371－1213 | 120 OHM ．25W 5\％ 1210 T／A | N ${ }^{\text {¢ }}$ |
| R145 | A11371－1213 | 120 OHM ． 25 W 5\％1210 T／A | NO＊ |
| R146 | A11371－1331 | $13 \mathrm{KOHM} .1 \mathrm{~W} 5 \% 0085 \mathrm{~T} / \mathrm{R}$ | N7＊＊ |
| R147 | A11371－1811 | 100 OHM ． $1 \mathrm{~W} 5 \%$ 0805 T／R | N 7 ＊ |
| R148 | A11371－18：1 | 180 OHM 1W $5 \%$ 0日gS T／R | M 7 |
| R158 | A11371－5R63 | 5.5 OHM 25 W 5\％ $1218 \mathrm{~T} / \mathrm{A}$ | N 7 |
| R152 | 103199－1 | 0．4．1w，5\％， 2512 | K 7 |
| R153 | 103199－1 | 0．4．1W．5\％， 2512 | K 6 |
| R154 |  | OMITTED FOR THIS ASSEMELY | L 7 ＊ |
| R15s |  | OMITTED FOF THIS ASSEMELY | M E＊ |
| A15s | 103199－1 | Q．4．1W．5\％． 2512 | M 7 ＊ |
| A157 | 103199－1 | Q．4．1W．5\％， 2512 | N6＊ |
| R156 | A18266－2R74 | 2.7 DHM 2W 5\％CF T／R | 1 B |
| R159 | 103199－1 | 0．4．1W．5\％． 2512 | D 7 ＊ |
| R1最 | A11371－1581 | 15 OHM ．1W 5\％0905 T／A | $18 *$ |
| R1E1 | A11371－1331 | 13KDHM．1 W 5\％日les T／R | H 7 ＊ |
| A162 | A11371－4701 | AES． 47 OHM． $1 \mathrm{~W} 5 \%$ CHIP 0885 | H 7 |
| R163 | A11371－1811 | 1日0 OHM，1W 5\％E日®5 T／R | $17 \times$ |
| P165 | A11371－5R63 | 5.6 OHM， $25 \mathrm{~W} 5 \% 1210$ T／R | $15 *$ |
| R167 | 183199－1 | Q．4，1W，5\％， 2512 | E 7 ＊ |
| R168 | 183199－1 | Q．4．1W．5\％．25：2 | F6＊ |
| R169 |  | OMITTED FOR THIS ASSEMBLY | F 7 ＊ |
| F178 |  | OMITTED FOR THIS ASSEMBLY | 55. |
| P171 | 103199－1 | 0．4，1W，5\％， 2512 | G 7 ＊ |
| P172 | 103199－1 | Q．4．1W，5\％， 2512 | H 5 |
| A174 | A11371－4751 | 4．7MEGOHM，0．10W 5\％MF Q日es | G ${ }^{\text {® }}$ |
| P175 | A1136日－51111 | 5．11KOHM ． $1 \mathrm{~W} 1 \%$ 0805 T／R | G $\mathrm{B}^{\text {＊}}$ |
| R176 | A11360－10021 | 10K 1／10W 1\％SMD 0B05 T／R | G ${ }^{\text {¢ }}$ |
| R177 | A1136日－10021 | 10K 1／10W 1\％SMD 日ans T／R | H ${ }^{\text {¢ }}$ |
| R178 | A1136日－90921 | gio．gK．日．10W 1\％MF DBQS | N 9 ＊ |
| R179 | A1136日－10831 | 1日V．KDHM ．1W 1\％EHIP D日V5 | F 7 ＊ |
| R180 | A11368－39231 | 392 KOHM ． 1 W 1\％DB05 T／n | G ${ }^{\text {a }}$ |
| R181 | A11371－5814 | 680 OHM，5W 5\％2010 T／A | J 1＊ |
| R182 | A11368－18021 | 10K 1／10W 1\％SMD 0805 T／R | F 8 ＊ |
| R193 | A11368－10031 | 10 CO ，KOMM ． $1 \mathrm{~W} 1 \%$ EHIP E8Q5 | F $\mathrm{B}^{*}$ |
| R1日4 | A11358－20023 | 20．OKDHM．25W 1\％1210 T／R | F9 |
| R185 | A1135日－10021 | 1日K 1／10W 1\％SMD 日日QS T／R | G 8 ＊ |
| R1日6 | A1136日－10831 | 100．KOHM ．IW 1\％EHIP 0日®5 | N 19. |
| R1日7 | A1136日－15831 | 150KOHM ． $1 \mathrm{~W} 1 \%$ 8日05 T／R | M 10 |
| R188 | A1138日－15931 | 15BKOHM ． 1 W 1\％E日V5 T／R | M 19＊ |
| R189 | A1135日－18031 | 108．KOHM ．IW $1 \%$ CHIP 日日05 | M 10． |
| R190 | A11368－57621 | 57，EK．． 1 W．1\％，EHIP | N6＊ |
| P191 | A11368－22881 | 226 OHM 0．1W 1\％日日05 T／R | N 6 |
| A192 | A11371－4751 | 4．7MEGOHM．Q． 10 W 5\％MF D日B5 | L． 5 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| म193 | A1135日－10021 | 10K 1／10W 1\％SMD D日BS T／R | N 9 |
| 8194 | A11371－8201 | B2 OHM ．I W 5\％日ens T／R | N 7 |
| R195 | A11371－8211 | 日20 OHM． 1 W $5 \%$ \％ens T／R | M 7 |
| R200 | 102595－2 | 5K．．．DETENT | N |
| R281 | A1136日－10021 | 10K 1／18W 1\％SMD 0BES T／R | K10＊ |
| R202 | A11368－39231 | 392．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP DBOS | L． 9 ＊ |
| 8203 | A1136日－49901 | 499 DHM ．1W 1\％ $\mathrm{CB05}$ T／R | L 9 |
| \％204 | A1136日－10821 | 10K 1／10w I\％SMD 0805 T／R | L 9 |
| 8205 | A11371－8814 | 5日0 OHM ． $5 \mathrm{~W} 5 \% 2010 \mathrm{~T} / \mathrm{R}$ | M |
| R206 | A11360－10011 | 1．KOHM．i W $1 \%$ CHIP geas | J 9 |
| R209 | A11358－15122 | $19.1 \mathrm{KOHM} .125 \mathrm{~W} 1 \%$ CHIP RES | K 9 |
| R210 | A1136日－10011 | 1．KOHM．IW $1 \%$ CHIP 8805 | J 9 |
| R21：1 | A！1368－10021 | 10K 1／10W \％S SMD 0日日5 T／R | J 9 |
| R2 12 | A11368－19122 | $19.1 \mathrm{KOHM} .125 \mathrm{~W} 1 \%$ CHIP RES | 」 9 |
| R213 | A11 368－51111 | 5．11KDHM．1W 1\％9日05 T／R | 」10＊ |
| R214 | A1136B－82511 | 日． $25 \mathrm{KDHM} .1 \mathrm{~W} 1 \%$ LHIP 0805 | 」10 |
| R215 | A1136日－60121 | 68.1 KDHM 0.1 W \％CHIP 0805 | 510 |
| R216 | A113E日－22681 | 22.6 OHM 0．1W 1\％D日B5 T／R | K 9 |
| R217 | A11371－3341 | $330 \mathrm{KOHM} .1 \mathrm{~W} 5 \%$ 日日05 T／A | J 3 |
| R219 | A11371－3333 | $33 \mathrm{KOHM} .25 \mathrm{~W} 5 \% 1210 \mathrm{~T} / \mathrm{A}$ | J 9 |
| R220 | A1136日－90921 | 90．9K．0．18W 1\％MF 8日05 | K 9 |
| A222 | A1 1 358－15831． | 158KOHM ． $1 \mathrm{~W} 1 \%$ BBQS T／R | K 9 |
| A223 | A1：36日－10031 | 100．KOHM ． 1 W 1\％CHIP 0805 | K 9 |
| f224 | A11368－15831 | 159KOHM ． $1 \mathrm{~W} 1 \%$ D日Q5 T／R | K 9 |
| R225 | A1136日－18831 | $1 \mathrm{EQ} . \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ CHIP OBE5 | L 9 |
| R226 | A113EB－39231 | $392 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ D日05 T／R | K 9 |
| R227 | A11371－6B21 | 6．BKaHM ． 1 W 5\％CHIP QBDS | K 9 |
| R220 | A11371－6814 | 6日D DHM ． 5 W 5\％2818 T／R | M 1 |
| R229 | A11371－8211 | E20 OHM．1W 5\％DBE5 T／R | $K 7$ |
| R230 |  | DO NOT INSTALL | L 目 |
| R231 |  | DO NOT INSTALL | L． B |
| R232 | A11371－2223 | 2． $2 \mathrm{~K} \mathrm{O.25W} \mathrm{5} \mathrm{\%} \mathrm{1210} \mathrm{T/R}$ | H 3 |
| R233 | A11371－7511 | $750 \mathrm{OHM} .1 \mathrm{~W} 5 \%$ 0日05 T／R | H 3 ＊ |
| R234 | c10613－5 | 1 KOHM TOP ADJUST TRIMMER T／R | J 8 |
| R235 | A11371－3923 | 3．9K．25W 5\％1210 T／R | J 7 |
| R236 | A11371－8201 | 82 OH1M． $1 \mathrm{~W} 5 \% 0805 \mathrm{~T} / \mathrm{R}$ | J 7 |
| R237 | A11368－49901 | 499 OHM ．1W 1\％ 0805 T／R | K 日 |
| R238 | A1137t－1213 | 12 D OHM． $25 \mathrm{~W} 5 \% 1210$ T／R | K 日 |
| R239 | A113B8－13703 | 137 DHM ． 25 W ． $1 \% 1210$ T／R | K ${ }^{\text {B }}$ |
| R240 | A11371－3333 | $33 \mathrm{KOHM} .25 \mathrm{~W} 5 \%$ 1210 T／A | K日＊ |
| R241 | A11371－8211 | 日20 OHM ． $1 \mathrm{~W} 5 \%$ 0805 T／A | L 日 |
| R242 | 125478－1 | 3．日3KDHM D．5W 1\％2010 T／R | L 日 |
| R243 | A11371－3333 | 33 KOHM ．25W 5\％1210 T／R | K 日 |
| R244 | A11371－1213 | $120 \mathrm{OHM} .25 \mathrm{~W} 5 \% 1210 \mathrm{~T} / \mathrm{R}$ | K 日 |
| R245 | A11371－1213 | 120 OHM．25w $5 \% 1210$ T／A | K 8 |
| R24E | A11371－1331 | $13 \mathrm{KOHM} .1 \mathrm{~W} 5 \% 0005 \mathrm{~T} / \mathrm{R}$ | J2＊＊＊＊＊＊＊＊＊＊ |
| R247 | A11371－1011 | 10日 OHM． $1 \mathrm{~W} 5 \%$ 0日05 T／A | J2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only Document Mas Been Replaced with a Newer Versior

CROWN INTERNATIUNAL INC．

## 1718 WEST MISHAWAKA RDAD

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| R24日 | A11371－1911 | 100 OHM ．IW 5\％0日05 T／A | $K 2$ |
| R250 | A11371－5R63 | 5．6 OHM ．25W 5\％1210 T／R | J 2 ＊ |
| R252 | 103199－1 | Q．4．1W． $5 \% .2512$ | K 4 |
| R253 | 103199－1 | 0．4．1W．5\％， 2512 | K 3 ＊ |
| R254 |  | DMITTED FOR THIS ASSEMBLY | $14 *$ |
| R255 |  | OMITTED FOA THIS ASSEMBLY | M 3 ＊ |
| R256 | 103193－1 | 0．4．1W．5\％， 2512 | N $4 *$ |
| 9257 | 103199－1 | Q．4．1W．5\％， 2512 | N3＊ |
| R258 |  | DO NOT INSTALL | ${ }^{+} 1$ |
| 8259 | 103199－1 | 0．4．1\％，5\％， 2512 | D $4 *$ |
| 9268 | A11371－1501 | 15 OHM ．1 W 5\％ 0885 T／R | D 1 ＊ |
| A261 | A11371－1331 | $13 \mathrm{KOHM} .1 \mathrm{~W} 5 \%$ 日BES T／R | E 2 ＊ |
| R262 | A：1371－4701 | RES． 47 OHM ． 1 W 5\％CHIP 0 Oe0 | E $2 *$ |
| R263 | A11371－1811 | 100 OHM ．1W 5\％0005 T／A | E2＊ |
| R265 | A11371－5R63 |  | E 2 ＊ |
| 8267 | 103199－1 | Q．4．1W，5\％， 2512 | E $4 *$ |
| R26日 | 183199－1 | Q．4．1W． $5 \%, 2512$ | F 3 ＊ |
| R269 |  | DMITTED FOR THIS ASSEMELY | F $4 *$ |
| R270 |  | OMITTED FOA THIS ASSEMBLY | G 3 ＊ |
| R271 | 103899－1 | 0．4．1W．5\％， 2512 | H 4 ＊ |
| R272 | 103199－1 | Q．4．1W，5\％， 2512 | H 3 ＊ |
| A274 | A11371－4751 | 4．7MEGOHM．0．10W 5\％MF 080.5 | E旦 ${ }^{*}$ |
| R275 | A1136日－51111 | 5.11 KOHM ． $1 \mathrm{~W} 1 \%$ 0005 T／R | E $\mathrm{E}^{\text {\％}}$ |
| ค276 | A11368－10921 | 10K 1／10W 1\％SMD 0605 T／R | E 8 ＊ |
| R277 | A）1368－10021 | 10K 1／10W 1\％SMD 日B05 T／R | E ${ }^{\text {B }}$ |
| R279 | A11368－98921 | 90．9K． 0.10 W 1\％MF 0805 | L 9 ＊ |
| R279 | A11368－16031 | 100．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | E 7 ＊ |
| F288 | A11368－39231 | 392 KOHM ．i W 1\％0805 T／R | E 8 ＊ |
| F2， | A11371－6814 | B日E OHM ． 5 W 5\％2010 T／R | M 1 |
| f282 | A11368－10621 | 10K 1／18W 1\％5MD 0日as T／R | D－ |
| R203 | A11368－10031 | 100．KOHM ． $1 \mathrm{~W} 1 \% \mathrm{CHIP}$ Q805 | D日＊ |
| \％204 | A11368－20023 | 2日．0KロHM ． 25 W 1\％1218 T／R | F 3 ＊ |
| R2日 5 | A11368－10021 | 10K 1／10W 1\％SMD abQs T／R | F ${ }^{\text {日 }}$ |
| 9286 | A11368－10031 | 100．KOHM ． $1 \mathrm{~W} 1 \%$ EHIP 0805 | L 10＊ |
| R2日7 | A1136日－15日31 | 158KDHM ． 1 W 1\％0805 T／R | K 18 ＊ |
|  | A113E日－15031 | 158KOHM ． $1 \mathrm{~W} 1 \%$ 日Ben $5 / \mathrm{R}$ | K 10 ＊ |
| R2日 | A） 13 BE －10031 | 10E．KOHM ． 1 W 1\％CHIP QBD5 | K 10＊ |
| R290 | A1135日－57E21 | 57．EK．． 1 W ，1\％，EHIP | N3＊ |
| R291 | A1136日－22601 | 226 ОНM 日．1W 1\％OBQ5 T／R | $\mathrm{N}^{3}$ |
| R292 | A11371－4751 | 4．7MEEOHM，0．10W 5\％MF E日QS | J 3 |
| f293 | A1136日－10021 | 10K 1／10W 1\％SMD 0日OS T／R | K 9 ＊ |
| R294 | A11371－8201 | 日2 OHM．1W 5\％UBES T／A | 」 7 ＂ |
| R295 | A1才371－821！ | $82 \mathrm{OHM} .1 \mathrm{~W} 5 \%$ 0805 T／R | J 7 ＊ |
| R300 | 103199－1 | 0．4．1W，5\％，2512 | D 7 ＊ |
| R301 | 183199－1 | B．4．1W，5\％， 2512 | J 7 ＊ |
| R362 | 183199－1 | B．4．W．5\％． 2512 | K 6 |
| R303 |  | OMITTED FOR THIS ASSEMELY | L 7 ＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

For Reference Use Only Document Has Been Replaced with a Newer Version

CROWN INTERNATIUNAL INC．



| PARTS LISY |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R304 |  | OMITTED FOA THIS ASSEMBLY | M |
| R305 | 103199－1 | D．4．1W．5\％，2512 | M 7 |
| R306 | 183199－1 | Q．4．1W．5\％， 2512 | N 6 |
| R307 | 103999－1 | 0．4．1W．5\％， 2512 | E 7 |
| R308 | 103199－1 | 0．4．1W．5\％， 2512 | $F 6$ |
| R309 |  | QMITTED FOR THIS ASSEMBLY | G 7 ＊ |
| R310 |  | OMI TTED FOR THIS ASSEMELY | E 6 |
| R311 | 103199－1 | 0．4，1W． $5 \% .2512$ | G 7 ＊ |
| R312 | 183199－1 | 0．4，1W．5\％． 2512 | L 6 ＊ |
| R313 | A1136日－10021 | 10K 1／10W 1\％5MD $0805 \mathrm{~T} / \mathrm{A}$ | G 7 |
| R314 | A11371－3341 | 33 B KOHM ． $1 \mathrm{~W} 5 \% 0005 \mathrm{~T} / \mathrm{R}$ | G 7 |
| R315 | A11360－51111 | 5.11 KOHM ． $1 \mathrm{~W} 1 \%$ OEB5 T／R | H 7 |
| R316 | A1136日－18021 | 10K 1／10W 1\％SMD 080S T／R | M10＊ |
| R317 | A11371－3934 | 39K． 5 W 5\％2010 SMT T／R | N 7 |
| R318 | A11371－3934 | 39K．5W 5\％2018 SMT T／R | N 8 |
| R319 |  | DO NOT INSTALL | M 10 ＊ |
| R322 | A11371－2713 | 278 DHM．25w 5\％1210 T／A | 19 |
| R323 | A11371－6R02 | 0 OHM ． $125 \mathrm{~W} 5 \%$ CHIP RES T／R | G 7 |
| R400 | 103199－1 | 0．4．1W．5\％． 2512 | D 4 \＃ |
| R401 | 123199－1 | 0．4．1W，5\％． 2512 | J 4 ＊ |
| R462 | 103159－1 | B．4，1W，5\％， 2512 | K 3 |
| R403 |  | OMITTED FOR THIS ASSEMELY | L 4 ＊ |
| P404 |  | OMITTED FOR THIS ASSEMELY | M 3 |
| R465 | 103199－1 | 0．4．1w．5\％． 2512 | M 4 |
| P406 | 103199－1 | $0.4 .1 W$ ．5\％． 2512 | N 3 ＊ |
| R407 | 103199－1 | Q．4，1W，5\％， 2512 | E 4 |
| R408 | 103199－1 | 0．4，1W，5\％， 2512 | $F 3$ |
| R409 |  | OMITTED FOR THIS ASSEMBLY | G $4 *$ |
| R410 |  | OMITTED FOR THIS ASSEMELY | ［ 3 ＊ |
| R411 | 10．3199－1 | 0．4．1W，5\％， 2512 | H 4 |
| R412 | 103199－1 | 0．4．1w，5\％， 2512 | 13 ＊ |
| R413 | A11368－10621 | 10K 1／10W 1\％SMD D日B5 $\mathrm{T} / \mathrm{R}$ | E 7 ＊ |
| R414 | A11371－3341 | 330 KDHM ． 1 W 5\％BEC5 T／A | E 7 |
| R415 | A1 1368－51111 | $5.11 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 8日0． 5 T／A | E $7 *$ |
| R416 | A1136日－10021 | 10K 1／10W 1\％SMD 0805 T／R | K 10 |
| R417 | A11371－3934 | 39K．5W 5\％2010 SMT T／R | K 7 |
| R418 | A11371－3934 | 39K．5W 5\％2010 SMT T／A | $K$ |
| R419 |  | DO NOT INSTALL | K 10＊ |
| R420 | A11371－5R65 | 5．6 OHM 1 W 5\％ 2512 T／A | H2 |
| R421 | A11371－SRES | 5.6 OHM $1 \mathrm{~W} 5 \% 2512$ T／A | H2 |
| R422 | A11371－2713 | 270 OHM ．25W 5\％1218 T／R | J 9 |
| R423 | A11371－DA02 | D OHM ． 125 W 5\％CHIP RES T／R | F 7 |
| 5100 | 1024日8－1 | SPDT HORIZ SLIDE | L 10 |
| TP3a | C 3日96－9 | TEST POINT PCB ．${ }^{\text {＂}}$ CTR LDOP | K 2 |
| TP39 | C 9896－9 | TEST POINT PCE ．${ }^{\text {＂}}$ CTR LOOP | N 7 |
| 41 | e 5095－2 | MC7BISCT＋15V．REG | H 10 |
| $\underline{4}$ | C 5096－0 | MC7915CT -15 V ．AEG | H 9 |
| 43 | 102486－1 | OPTO BJT NPN SOIC－8 CTA－180\％ | N 10 |
| $\underline{4}$ | C 82E2－5 | MC3307ED LOW NOISE DUAL OP AMP | 19 |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replacyd sith anguser Yersioc

CROWN INTERNATIUNAL INC．



INACTIVE
For Reference Use Only Document Has Been Replaced with a Newer Version


APPARATUS OR DEVICEG WI THOUT PERMISSION.


## Component Map

for use with
Main PWA \#102139-6




| E．C． | ZONE | REV． | DESCRIPTION | DATE | 日Y | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | CHK | ME | EE | PE |
|  |  | A | PRODUCTION RELEASE（LEVEL I） | 9－23－98 | JFL | TLM |  |  | TS |
| 19日E07日0 |  | B | C606．C607 WERE D．1MF．R1．R7．R32．R34 WERE 27D．R6 WAS B．日7K．R1日 WAS 7．6日K． R29 WAS 4．7M．U1E日．U20日 WERE 102723－1． J500．J600 WERE 125365－1．102488－1 WAS DPDT．C 3510－2 WAS C 3510－7． | 11－04－98 | JAW | $22$ |  |  |  |

NOTES：
1．5СHEMATIC DRAWING NUMEER 102141
2．PWE PART NUMBER 102138－8．
3．THE PWA SHALL MEET THE $\left\{P C-A-61 日_{\text {．}}\right.$ CLASS 2 5TANDARDS．
4．ALL LEADS SHALL BE TRIMMED TO E．D日3＂OR LESS．
5．POSITION COMPDNENTS AS SHOWN ON COMPONENT MAP．
6．COMPONENTS THAT HAVE（＊）AFTER THEIR MAP LOCATION
ARE MOUNTED QN THE BOTTOM SIDE OF THE PRINTED CIRCUIT BOARD．
7．REMOVE SOLDER OR PREVENT SOLDER FFOM ACCUMULATING IN HOLES．
B．THE VENT H＠LE ON TOP OF THE RELAYS K10日 AND K2日E MUST 日E OPENED AFTER THE CLEANING PROCESS．EY EITHER REMOVING THE SEALING TAPE DA CUTTING OFF THE CIRCULAR TAB WITH AN＂EXACTO＂KNIFE OA SIMULAR CUTTING TOOL．WARNING，THIS STEP MUST GE DONE AFTER THE CLEANING PROCESS NOT BEFORE！！！WATEA OR CLEANING SOLVENTS ENTERING TRE relay vent hole will damage the relay．
9．CONNECT THE WIRES THAT COME FROM Q1 23 AND 0223 TO WP4 AND WP5 RESPECTIVELY．
10．THE PWA PART NLMBER FQR THIS MODULE SHALL BE MARKED ON THE P．C．BOARD AND SHALL EE PERMANENT，
11．INSTALLATION DF L10G AND L2EG IS AS FOLLOWS：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOR H42922－9
118．BEND TRANSISTOR AT 90 DEG．FLAT SIDE DOWN
11C．PLACE TRANSISTOR INTO THE PWB AS SHOWN ON THE COMPDNENT MAF DETAIL $G$ ．
11D．MIX OUTPUT EPOXY AND ACCELERATOA TOGETHER． APPLY THE MIXTURE TO THE TRANSISTOR AND HEATSINK． THE MIXTURE MUST FILL THE HEATSINK HOLE AND THE LEADS OF THE DEVICE．ESPECIALLY THE CENTER LEAD． （NOTE：NO VISIBLE AIR GAPS AROUND THE TRANSISTOR AND THE TRANSISTOA LEADS CANNOT TOUCH THE HEATSINK）
11E．HOLD THE TAANSISTOA AGAINST THE HEATSINK UNTIL EPOXY SETS－UP
12．TOROUE 5－32 HEX NUTS \｛CPN A11日56－1）AS FOLLOWS：
12A．PRE－WAVE TORQUE OF 4－6 INCH LES．
12日．POST－WAVE AND WHEN ASSEMBLY HAS CDOLED DOWN TO HANDLING TEMPERATURE TORQUE OF 13－15 INCH LBS．
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPONENT MAP
14．LAEEL INPUT PWA WITH CPN 126BE3－1 ON COMFONENT SIDE．
15．APFLY GENEROUS COAT OF 127＠2J－1 QVERCOAT TO PARTS C121．C124．C221．C224． COVER ADJACENT PARTS．


CAUT I DN

STATIC CAN DAMAGE COMPONENTS！
DD NDT HANDLE
UNLESS WRIST STRAP IS WORN

INACTIVE
For Reference Use Only
these drawings and specifications are the PROPEATY OF CROWN INTERNATIONAL．INC，AND Shall not ee rephoduced．copred，of used as the basis for the manufacture or sale of apparatus or devices witheut permission．

| PAINTS TO |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $K$ |  | PWA，MAIN／INPUT CE1ロロロ |  |  |  |  |  |  |  |
|  |  | DRAWN | 」FL 9－23－98 | APPROVED EY： |  |  | DO NOT SCALE PRINT |  |  |
|  |  | CHECKED | TLM 09－24－98 | ME |  |  | SUPERSEDES |  |  |
|  |  | SCALE | NONE | EE |  |  | E．C． |  |  |
|  |  | PROJ \＃ | MD39000 | PE | TS | 09－23－98 | DWG．ND．SHEET ：OF 20$102139-8$ |  |  |
|  |  | FILENAME： $102139-8 . A . P C E$ |  | NEXT ASM： |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATIDN |
| A10E2D－7 | 6－32 $\times .625$ PCB LAPTIVE STUD | 8 | HW9，HW1 ${ }^{\text {，HW }}$ 1，HW1 2．HW1 3．HW1 4. |
|  |  |  | HW15，HW18 |
| A10265－19121 | 19．1K 0．25W 1\％MF | 2 | R112．R212 |
| A10266－2R74 | 2.7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104JD | 0.1 MF 250V 5\％MTL POLY | 2 | C11日，ᄃ218 |
| A11056－1 | 6－32 HEX NUT W／GELLEVILLE | 8 | HW17，HW1日，HW1 S．HW20，HW21， |
|  |  |  | HW22．HW2 3．HW2 4 |
| A）138日－10011 | 1K 0．10W 1\％CHIP 0805 | 8 | R101．R106，R110，R201．R206． |
|  |  |  | R210．R316．R416 |
| A11368～10021 | 10K 1／10W 1\％CHIP 0905 | 34 | R9．R27．R104．R187．R108，R111． |
|  |  |  | R121，R176．R177，R182．R185． |
|  |  |  | R193．R204．R211．R221．R276． |
|  |  |  | R277．R2日2，R285．R293，R313． |
|  |  |  | R413．R500，R501，R502，R503． |
|  |  |  | R504．R506，RE00，R601，R602． |
|  |  |  | R603．R604，R606 |
| A11368－10031 | 100 O D． 1 W $1 \%$ CHIP D日Z5 | 15 | R25．R30，R31．R123．R125，R179， |
|  |  |  | R183，R186．R189，R223．R225． |
|  |  |  | R279．R283．R286．R289 |
| A11388～12121 | 12．1K OHM 0.10 W 1\％EHIP D日05 | 1 | A21 |
| A1138日－13703 | 137 OHM D．25W 1\％CHIP | 2 | R139．R239 |
| A1 1368－15831 | 15日K 0．10W \％\％CHIP 0805 | 8 | R122，R124，R187，R188，R222． |
|  |  |  | R224，R287．R2日8 |
| A1136B－19122 | 19．1K 0．125W 1\％CHIP 1206 | 2 | R109，R209 |
| A1136日－20023 | 20K D．25W 1\％CHIP 1210 | 3 | R1日，R1日4，R2日4 |
| A1136日－22601 | 226 DHM Q． 10 W 1\％LHIP 日日®5 | 4 | A116，R！31．R216，R291 |
| A11368－39231 | $392 \mathrm{~K} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0日05}$ | 日 | R22．R23，R102．R126．R180，R202． |
|  |  |  | R228，R280 |
| A1 1388～49901 | 499 OHM Q． $10 \mathrm{~W} 1 \%$ CHIP 0885 | 4 | R103，R137．R203．R237 |
| A1138日－51111 | $5.11 \mathrm{~K} \mathrm{OHM} \mathrm{0.18W} 1 \%$ CHIP D日05 | 6 | R113．R175．R213．R275．R315，R415 |
| A11368－57621 | 57．6K ロ．10W 1\％CHIP 日B05 | 4 | R20，R24，R198．R290 |
| A11368－68111 | 6．81K OHM 0．10W 1\％［HIP 0805 | 2 | R118．R21白 |
| A1136日－68121 | 6日． 1 K 0．10W $1 \%$ CHIP | 3 | R12．R115．R215 |
| A1138日～71511 | 7．15KOHM D．10W 1\％0日85 T／R | 1 | R18 |
| A11368－76日11 | 7． 5 KKOHM 0．18W 1\％SMT 0805 | 1 | R5 |
| A11368－82511 | 9．25K 0．1 W $1 \%$ CHIP 0885 | 3 | R17．R114，R214 |
| A1136B－93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP ge05 | 1 | R6 |
| A1136B－90921 | 90．9K 0．10W 1\％CHIP 0805 | 4 | R120．R17日．R220．R27B |
| A11369－102」2 | 日．प01 UF 50V 5\％NPO MLC 2805 | 2 | C134． 2334 |
| A11369－120K2 | 12 PF 50 V 10\％NPD Q日Q5 T／R | 6 | C500，C501，C502， $5600.5601, \mathrm{CED2}$ |
| A1 1369－270K2 | 27PF 50V 10\％NPO 0B05 T／R | 2 | C107．C207 |
| A1 1389－330J2 | $33 \mathrm{PF} 50 \mathrm{~V} 5 \% \mathrm{NPO}$ MLC 0805 | 2 | C142．c242 |
| A11369－47 1 K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | 4 | C110，C141，C210．C241 |
| A11371－0R02 | Q．$\square$ OHM J IMPER CHIP 1206 | 2 | R323．R423 |
| A11371－0R21 | 0.2 ロHM $0.10 \mathrm{~W} 5 \%$ CHIP 0日05 | 2 | R14．R15 |
| A11371～1011 | 100 OHM D． $10 \mathrm{~W} 5 \%$ CHIP 0805 | 3 | R13．8147．R247 |
| A11371－1013 | 100 OHM ．25W 5\％1210 5MT T／R | 2 | R322，R422 |
| A11371－1022 | 1 K 日． $125 \mathrm{~W} 5 \%$ CHIP 1205 | 1 | R日 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 6 | R13日，R144，R145，R23B，R244，R245 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | 4 | R146．R161．R246．R261 |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－1501 | 15 OHM D．10W 5\％CHIP | 4 | C605．c607．R160，R260 |
| A1：371－1811 | 180 OHM 0．10W 5\％CHIP | 4 | R14日，R153，R248，R263 |
| A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | 2 | R132．R232 |
| A11371－2225 | 2．2K 1W 5\％CHIP 2512 | 3 | R1．R2，R7 |
| A11371－3313 | 330 OHM 日．25W 5\％CHIP | 2 | R4，R19 |
| A11371－3333 | 33 K ®．25W 5\％CHIP 1210 | 6 | R119，R140．R143，R219，R240．R243 |
| A11371－3341 | 330K 0．10W 5\％EHIP ロ日®5 | 7 | R3，R11，R26．R117，R217．R314． |
|  |  |  | R414 |
| A11371－3923 | 3．9K $0.25 \mathrm{~W} 5 \%$ CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39K OHM 0．50w 5\％CHIP 1210 | 4 | R317，R318．R417．R418 |
| A11371－4701 | 47 OHM 0．10W 5\％LHIP | 2 | R162．R262 |
| A11371－4751 | 4．7M D．10W 5\％CHIP 0805 | 4 | R174．R192．R274．R292 |
| A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 4 | R150，R165．R250．R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％LHIP 2512 | 2 | R420，R421 |
| A11371－6814 | 6日0 OHM D．50w 5\％CHIP | 6 | R105，R12日，R181，R205，R228，R2日1 |
| A11371－8821 | 6．8K 0．10W 5\％LHIP 0805 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R2日，R133．R233 |
| A11371－8201 | 82 OHM 0．10W 5\％LHIP | 4 | R1 36，R194，R236，R294 |
| A11371－8205 | 82 OHM 1 W 5\％CHIP 2512 | 1 | R807 |
| A11371－8211 | 820 OHM 0．10W 5\％CHIP | 6 | R129，R141，R195，R229，R241，R295 |
| A1137日－AD5BU | WIRE， 16 RED FAST $\times 5 \times$ TEFM | 1 | WP1 |
| A1137日－C050L | WIRE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | 6 | ᄃ102，ᄃ109，ᄃ1 15，ट202，С209，ᄃ215 |
| A11427－1日4K2 | 0.1 MF 50V 10\％0日05 | 32 | C2，ᄃ6，ᄃ7，C12．С24．C25．C28，C29， |
|  |  |  | ᄃ122．ᄃ126．ᄃ127．ᄃ128，ᄃ129， |
|  |  |  | C138．C131．C132．C133，С139． |
|  |  |  | ᄃ222． $2226 . \mathrm{C} 227 . \mathrm{C} 228 . \mathrm{C} 229$. |
|  |  |  | ᄃ230．c231．c232．ट233．c239． |
|  |  |  | こ505．С506． 5605.5608 |
| A11427－123K2 | $0.012 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{CHIP}$ | 2 | C112．c212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | 2 | C117．C217 |
| A11427－472K2 | 4700PF 50V 10\％×7R 0日05 | 4 | C116．C119．c218．c219 |
| A12125－3148K | WIRE． 22 WHT $3 / 16 \times 14 \times$ FAST | 1 | WP6 |
| C 2日5：－1 | 1 N 4004 SIL．ICON RECT． | 7 | D1，D2，D3，D4，D6，D7，D10 |
| ᄃ 3510－2 | CHOKE， 470 UH $10 \%$ AXIAL | 4 | L100．L101．L200．L201 |
| C．3549－0 | DIODE ZENER，10V，1N5240B | 1 | D8 |
| ᄃ 3679－5 | 33UF 59V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4．C5 |
| ᄃ 5095－2 | POS． 15 VOLT REG． | 1 | ப1 |
| c 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－8 | 2.2 MF 50 V VERT | 1 | C27 |
| C 7031－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | 3 | C22．C140．C240 |
| C 744日－1 | MMET3904 CHIP NPN | 6 | 0100.0101 .0129 .0200 .0201 .0229 |
| C 8262－5 | MC3307日D DUAL Lロ NOISE DP AM | 4 | U4，ப5，L105，U205 |
| C 8576－8 | 100 MF 35V 19\％ELEC | 1 | C26 |
| C 9012－3 | MC33079D QUAD LO NOISE OP AM | 3 | ப101．U201． 4500 |
| C 9838－8 | COMPARATOR，QUAD LM339D SD－1 | 4 | U102，U104．U202，U204 |
| C 9157－6 | 10ロUF $15 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／ | 2 | C123．c223 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| C．9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | Q104．0204 |
| C 92日3－0 | DIDDE，1NS14／1N4148 SOT－23 S | 54 | D9，D13，D101．D102，D183，D104， |
|  |  |  | D105，D106，D1日7，D10日．D109． |
|  |  |  | D110，D111．D112，D113．D116． |
|  |  |  | D117．D11日，D119．D120．D121． |
|  |  |  | D122，D1 23，D124，D1 25，D126． |
|  |  |  | D127，D1 28，D129，D201，D202． |
|  |  |  | D203．D204．D205．D206．D207． |
|  |  |  | D20日．D209．D210．D211．D212． |
|  |  |  | D213．D216．D217．D21日．D221． |
|  |  |  | D222．D223．D224，D225，D226． |
|  |  |  | D227．D22日，D229 |
| C 9896－9 | TEST POINT LOOP | 2 | TP3日．TP39 |
| C 9918－1 | TO220 VERT ELIP－ON HEATSINK | 2 | U1×，U2X |
| C 9931－4 | MMETSロ日7LT1 PNP XSISTOR SOT－ | 6 | 0102.0109 .0111 .0202 .0209 .0211 |
| C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | ᄃ105．c205 |
| C10422－1 | DIODE．JA 408V INS4Q4 AXIAL | 4 | D114．D115．D214．D215 |
| C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134．R234 |
| D 8917－3 | 日200UF 110 VDC ELECTROLYTIC | 2 | C20，C21 |
| H42902－9 | ASM，THERMAL SENSE | 2 | ப10ெ，ப206 |
| 5 5700－0 | 732 RTV RUBEER 10.3 OZ CLEAR | 0 | 4 |
| 101015－1 | LBL．BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON，AUTO INSERTAELE | 3 | WP4，WP5，WP7 |
| 101578－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDA 4 POS ． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK．6P4 COND MODLLAR R／A | 1 | 15 |
| 102138－8 | PWB．CE1900／CE2000 MAIN／INPU | 1 | 1 |
| 102438－101K2 | 100PF 200V 10\％NPO 0805 | 5 | C104．ᄃ120．ट135．С204．ᄃ220，ᄃ235 |
| 102438－221k2 | 220PF 200V 18\％NPO B805 | 2 | C111．C211 |
| 102438－560K2 | 56PF 200V 10\％NPO 0日05 | 4 | C106． $2206,5504,2604$ |
| 102438－820K2 | 日2PF 200V 10\％NPO 0日05 | 4 | ᄃ10日．ᄃ138，c20日．С238 |
| 102465－1 | 47UF 50V 20\％RADIAL T／R | 2 | c101．c20i |
| 102468－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \%$ RAD $\mathrm{T} / \mathrm{R}$ | 4 | C103．c203．c503．CG03 |
| 102468－1 | 47UF 10V 20\％NP RAD T／R | 4 | C113．C114．C213，C214 |
| 102478－1 | INDUCTOR， 2.75 LH 11 A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR，12POS 2．5MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，16POS ． 100 CTR SGL ROW | 1 | 13 |
| 102473－1 | SPEAKON， 4 POLE PC日 HORZ | 2 | 」100．J200 |
| 102475－1 | 日LICK． 5 POS TERMINAL | 1 | TB1 |
| 10247E－1 | LED．SMT R／A GREEN | 3 | E1．E101．E201 |
| 102477－1 | LED，SMT R／A RED | 4 | E10日．E102．E200．E202 |
| 10247日－1 | TRIAC DRIVER SBS 8V THRESH | 2 | 0132.0232 |
| 102479－1 | PWR MJD1 12 NPN DARLINGTON 10 | 2 | －1．$\square^{1}$ |
| 1024日日－1 | FET，N－CH 25V 50MA SOT－23 | 2 | 0133.0233 |
| 102481－1 | NPN 25V LOW NOISE SOT－23 | 2 | 0108．020日 |
| 102483－1 | PNP 300V 500MA SDT－23 | 2 | 0103． 02 亿3 |
| 102486－1 | OPTO 日JT NPN SOIC－B ETR－100 | 1 | U3 |
| 10248日－1 | SPDT VERT SLIDE 12 MM SHAFT | 1 | 5100 |
|  |  |  |  |

## INACTIVE

For Reference Use Only OF APPAAATUS OA DEVICES WI THOUT PERMSESION．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESERIPTION | OTY | REFERENCE DESIGNATION |
| 102569－3 | HS ASM．T1 ISOLATED CH1．，， | 1 | HS3 |
| 102570－3 | HS ASM，T1 ISOLATED CH2． | 1 | HS 4 |
| 102571－3 | HS ASM，T1 NON－ISOLATED CH1， | 1 | HS 1 |
| 102572－3 | HS ASM，T1 NON－ISOLATED EH2． | 1 | H52 |
| 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT．5K LIN 21 DNT 12 MM HORI | 2 | R100．R200 |
| 10268B－1 | SPACER，EX． 187 LONG ALUMINLM | 8 | HW1．HW2．HW3．HW4．HW5，HW6．HW7， |
|  |  |  | HWB |
| 102723－2 | OPTO CELL ON＝500 OHM | 2 | U100，ப20日 |
| 103180－1 | EUMPER，0．4＂TALL 日LK W／ADH | 3 | 7 |
| 103191－1 | 0.47 LF Z5U $121020 \% 50 \mathrm{~V}$ | 4 | C121．С124．c221．C224 |
| 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | 4 | Q107．0110．0207．0210 |
| 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 4 | 0105．0120．0205．0220 |
| 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 36 | R152．R153．R156，R157．R159． |
|  |  |  | R167，R168，R171，R172．R252． |
|  |  |  | R253，R256，R257，R259．R267． |
|  |  |  | R268，R271．R272，R300，R301． |
|  |  |  | R302．R305，R306，R307，R308， |
|  |  |  | R311．R312．R400，R401，R402． |
|  |  |  | R405，R406．R407，R40B，R411，R412 |
| 103210－1 | 2．2UF 1日®V RADIAL T／R | 4 | C136．С137．C236．C237 |
| 103331－N050R | WIRE， 16 日LK／WHT TAB $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103415－7068B | SCREW．6－32 $\times$ ， 5 TORX PNHD SEM | 2 | HW27，HW2 |
| 125106－1 | MAC9D 日 AMP 400V TRIAC | 2 | 0131.0231 |
| 125242－1 | CAP，．625ID $\times 1^{\prime \prime}$ VINYL | 1 | 3 |
| 126929－1 | 1／4＂TRS／XLR COMED PC日 VERT | 2 | J500．J600 |
| 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 12547日－1 | 3．83KOHM 0．50W 1\％ 2010 T／R | 2 | R142．R242 |
| 125508－1 | 10LF S0VDC ELECTROLYTIC SMD | 2 | ᄃ3． 530 |
| 126317－1 | REL． 30 A 24V SPST PCB W／FAST | 2 | K100．K200 |
| 128325－1 | DPDT MINI SLIDE NON－SHORT PC | 1 | S1 |
| 127023－1 | OVERCOAT PEN | 0 | 8 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C1 | 102466－1 | 10UF 250V 20\％RADIAL T／R | J 8 |
| C2 | A11427－104K2 | 日． 1 MF 50V 10\％0805 | F 9＊ |
| C3 | 12550日－1 | 10UF 50VDC ELECTROLYTIC SMD | 18 |
| C． 4 | ［ 4477－3 | 470 MF 35 V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35 V VERT | $G 9$ |
| C6 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | H 10＊ |
| C7 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H ${ }^{*}$ |
| C12 | A11427－104K2 | Q． 1 MF 50V 10\％0日05 | I 9＊ |
| C20 | D 8917－3 | 8200UF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 82DUUF 110VDC ELECTROLYTIC | 日 9 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | N 9＊ |
| ᄃ24 | A11427－104K2 | 0．1 MF 50V 10\％0805 | N 9＊ |
| C25 | A11427－104K2 | 0.1 MF 50V 10\％0805 | 0 9＊ |
| C26 | C 8576－日 | 100 MF $35 \mathrm{~V} 10 \%$ ELEC | I 9 |
| C27 | C 5362－6 | 2.2 MF S®V VERT | H 10 |
| C28 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | 」 ${ }^{*}$ |
| C29 | A11427－104K2 | 日． 1 MF 50V 10\％0805 | I 9＊ |
| ᄃ30 | 125508－1 | 1 18UF 5®VDC ELECTROLYTIC SMD | 18 |
| C31 | C 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102465－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| C102 | A11427－10．3K2 | 0．01MF 50V 10\％CHIP 0805 | M ＊$^{*}$ |
| C103 | 102487－1 | 22MF $25 \mathrm{~V} 26 \% \mathrm{RAD} \mathrm{T/R}$ | M 9 |
| C104 | 102438－101K2 | 100PF 200V 10\％NPO E日05 | M ${ }^{*}$ |
| C105 | C1020日－4 | $100 \mathrm{MF} \mathrm{25V} \mathrm{20} \mathrm{\%} \mathrm{VERT} \mathrm{ELEC}$ | L 9 |
| С106 | 102438－560×2 | 5SPF 200V 10\％NPD 0日05 | L 9＊ |
| C107 | A11389－270K2 | 27PF 50V 10\％NPO 0805 T／R | L 9＊ |
| C．108 | 102438－820K2 | 日2PF 200V 10\％NPO 0805 | L 10＊ |
| C109 | A1 1 427－103K2 | D． 11 MF 50 V 10\％CHIP 0805 | H $\mathrm{B}^{*}$ |
| C110 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | M $7 *$ |
| C111 | 102438－221k2 | 220PF 200V 10\％NPO 日日05 | N $8^{*}$ |
| C112 | A1 1 427－123K2 | B． $012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | $08^{*}$ |
| C113 | 102468－1 | 47LF $10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | N 8 |
| C114 | 102468－1 | 47பF 10 V 20\％NP RAD T／R | N 8 |
| C115 | A1 1427－103＜2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP} 0805$ | N 8＊ |
| C116 | A1 1427－472K2 | 4700PF 50V 10\％×7R 0日05 | N 7＊ |
| C117 | A11427－272K2 | 270日PF 50V 10\％CHIP 0805 | I 7＊ |
| С11日 | A10434－104」D | D． 1 MF 25QV 5\％MTL POLY | 18 |
| C119 | A11427－472K2 | 4700PF 50V 10\％×7R 2905 | I 7＊ |
| C120 | 102438－101K2 | 1 日0PF 200V 10\％NPO 0805 | I 7＊ |
| C121 | 103191－1 | 0．47LF Z5U 1210 20\％50V | G 8＊ |
| C122 | A11427－104K2 | 0．1 MF 50V 10\％日e05 | F 8 ＊ |
| C123 | C 9157－6 | 1 100UF 15V $20 \%$ NP ELEC RAD T／R | $F 8$ |
| C124 | 103191－1 | 0.47 UF Z5U $121020 \% 50 \mathrm{~V}$ | $1{ }^{\text {¢ }}$ |
| C126 | A11427－184K2 | 0． 1 MF 50V 10\％日805 | N 10＊ |
| C127 | A11427－1 ${ }^{\text {A }}$ AK2 | D． 1 MF 50V 10\％0805 | N 9＊ |
| C128 | A11427－104K2 | 0． 1 MF 50V 18\％0日05 | M 10＊ |
| C129 | A11427－104K2 | 0．1 MF 50V 10\％ 0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


|  | 718 west mishamaka road |  |  | 455 |
| :---: | :---: | :---: | :---: | :---: |
|  | DRAWN | JFL | 9－23－98 |  |
|  | PROJ |  | 390D0 |  |

## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | H 8＊ |
| C131 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | H 7 ＊ |
| C132 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | F 7 ＊ |
| C133 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | F $\mathrm{B}^{*}$ |
| C134 | A11369－102J2 | $0.001 \cup F 50 V 5 \%$ NPO MLC 0日05 T／ | M 7＊ |
| C135 | 102438－101K2 | 10ロPF 20ロV 10\％NPO 0日®5 | N 7＊ |
| C136 | 103210－1 | 2． 2 LF 180V RADIAL T／R | I 7 |
| C137 | 103210－1 | 2．2UF 180V RADIAL T／R | I 7 |
| C138 | 102438－820K2 | 82PF 20QV 10\％NPO D日D5 | M 7＊ |
| C139 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | G 7＊ |
| C140 | C 7091－9 | 0． 33 MF 50 V CHIP 1206 | L 9 |
| C141 | A11369－471k2 | 470PF 50V 10\％NPO 0日ロ5 T／A | N 10 |
| C142 | A11369－339J2 | 33PF 50V 5\％NPO MLC 0BQ5 | M 10 |
| C201 | 102465－1 | 47LF 50V 20\％RADIAL T／R | 」 9 |
| C202 | A11427－103K2 | D．01MF 50V 10\％CHIP 0日65 | K 9＊ |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 10243日－101K2 | $100 P F 200 V 10 \%$ NPO 0805 | 」 9＊ |
| C205 | C10208－4 | 1 L | 」 9 |
| C206 | 10243日－560K2 | 56PF 200V 10\％NPD 0805 | 」 9＊ |
| C207 | A11 389－270K2 | 27PF 50V 10\％NPO B日B5 T／R | 」 S＊$^{*}$ |
| C208 | 10243日－820K2 | 日2PF 200V 10\％NPO 0E05 | 」 10＊ |
| C209 | A1 1427－103×2 | ロ．$\triangle 1 \mathrm{MF} 50 \mathrm{~V}$ 10\％LHIP 2805 | H 3＊ |
| C210 | A11389－471×2 | $4709 F 50 V 10 \%$ NPD $0905 \mathrm{~T} / \mathrm{R}$ | K 7＊ |
| C211 | 102438－221K2 | 220PF 20QV 10\％NPO 0日0S | K 7＊ |
| C2．12 | A11427－123K2 | 0．012 MF 50V 10\％CHIP | L 日＊ |
| C213 | 102468－1 | 47பF 10V 20\％NP RAD T／R | K 8 |
| C214 | 102468－1 | 47UF 16V 20\％NP RAD T／R | $K$ 日 |
| C215 | A 1 1427－103K2 | D．D1MF 50V 10\％CHIP 0805 | K $日^{*}$ |
| C216 | A1 1427－472K2 | 4760PF 50V 10\％×7R 080S | 」 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | D 1＊ |
| C218 | A18434－184」D | Q． 1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 470日PF 50V 1日\％X7R 0805 | E 1＊ |
| C220 | 102438－181K2 | 180PF 200V 10\％NPO 0805 | D 2＊ |
| C221 | 103191－1 | 0.47 JF Z5U 1210 20\％50V | E 日＊ |
| C222 | A11427－104K2 | 0.1 MF 50V 10\％0805 | E $\mathrm{日}^{*}$ |
| C 223 | C 3157－6 | $100 \mathrm{LF} 16 \mathrm{~V} 20 \%$ NP ELEC RAD T／R | F 9 |
| C224 | 103191－1 | 0.47 UF Z5U $121020 \%$ 50V | 」 9＊ |
| C226 | A11427－164K2 | D． 1 MF 50V 10\％0805 | K 10＊ |
| C227 | A11427－184K2 | ®． 1 MF 50V 10\％0805 | K 9＊ |
| C22日 | A11427－104K2 | 0.1 MF 50V 10\％0B05 | 」 10＊ |
| C229 | A11427－184K2 | D． 1 MF 50V 10\％0805 | 」 $9^{*}$ |
| C230 | A11427－104K2 | 0． 1 MF 50V 10\％ロBE5 | E 日＊ |
| C231 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | E $7^{*}$ |
| C232 | A11427－104K2 | D． 1 MF 50V 10\％0805 | E 7＊ |
| C233 | A11427－104K2 | D． 1 MF 50V 10\％DBQ5 | D $日 ⿴^{*}$ |
| C234 | A11369－102」2 | 0．001LF 50V 5\％NPO MLC 0805 T／ | 」 ＊＊$^{\text {a }}$ |
| C235 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | 」 2＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOL． |
| C236 | 103210－1 | 2．2UF 180V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C238 | 10243日－日20K2 | 82PF 20日V 10\％NPO 0805 | 」 7＊ |
| C239 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | E 7＊ |
| C248 | C 7091－9 | 2．33 MF 50V LHIP 1206 | 19 |
| C241 | A11389－471k2 | 470PF 50V 10\％NPO 0日05 T／R | L 10 |
| C242 | A11369－330J2 | 33PF 50V 5\％NPO MLC 9日05 | $\times 10$ |
| C500 | A1 1389－120K2 | 12FF 50V 10\％NPO 0日05 T／R | A 2 |
| C501 | A11369－120K2 | 12PF 50V 10\％NPO B日®5 T／R | A 2 |
| C502 | A1 1369－120K2 | 12 PF 50 V 10\％NPO 0日05 T／R | 82 |
| C503 | 102467－1 | 22MF 25V 20\％RAD T／R | ¢ 2 |
| C504 | 10243日－560K2 | 56PF 200V 10\％NPO 0805 | A 2 |
| C505 | A11427－184K2 | 0．1 MF 50V 10\％0885 | A 2 |
| C506 | A11427－104K2 | 0．1 MF 50V 10\％0805 | A 2 |
| C503 |  | OPEN | 82 |
| C606 | A11389－120K2 | 12PF 50V 10\％NPO 0日05 T／R | A 2 |
| ᄃ501 | A1 1369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | A 1 |
| C602 | A11389－120K2 | 12PF 50V 10\％NPO 日日05 T／R | A 2 |
| C603 | 182457－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C604 | 102438－560K2 | 56PF 200V 10\％NPO 0805 | 日 2 |
| C605 | A11427－104K2 | 0.1 MF 50V $10 \%$ 0日65 | A 1 |
| c606 | A 11371－1501 | 15 OHM 0．10W 5\％CHIP | C 3 |
| C607 | A11371－1501 | 15 OHM D． 10 W 5\％CHIP |  |
| c80日 | A）1427－104K2 | D． 1 MF 50V 10\％0805 | B 1 |
| C609 |  | OPEN | 日 2 |
| D1 | C 2日51－1 | 1N4004 SILICON RECT． | G 9 |
| D2 | C 2日5i－1 | 1N40日4 SILICON RECT． | G 10 |
| D3 | C 2日51－1 | 1 N 4004 SILICON RECT． | G 10 |
| D4 | C 285i－1 | 1N4日04 SILICON RECT． | G 10 |
| D6 | C 2日5i－1 | 1 N40日4 SILICON RECT． | J 日 |
| D7 | C 2日51－1 | 1 N 4004 SILICON RECT． | 」 白 |
| D8 | C 3549－0 | DIODE ZENER，10V，1N5248日 | 」 日 |
| D9 | C 32日3－0 | DIODE．1N914／1N414日 SOT－23 SMT | I ${ }^{\text {＊}}$ |
| D10 | C 2日51－1 | 1N4OU4 SILICON RECT． | I 10 |
| D13 | C 9283－0 | DIODE．1N914／1N4148 50T－23 SMT | I ${ }^{*}$ |
| D181 | C 92日3－0 | DIDDE，1N914／1N414B SOT－23 SMT | N 9＊ |
| D102 | C 9283－6 | DIODE．1NS14／1N414日 SOT－23 SMT | N 9＊ |
| D103 | ᄃ 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | L 9＊ |
| D104 | C 9283－0 | DIQDE，1NS14／1N414日 SOT－23 SMT | M 9＊$^{*}$ |
| D105 | ᄃ 32日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | L 9＊ |
| D106 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | N $8^{*}$ |
| D107 | C 92日3－6 | DIODE，1N314／1N414日 SOT－23 SMT | N 8＊＊ |
| D108 | C 92日3－8 | DIODE，1N914／1N4148 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D109 | C 92日3－0 | DIODE．1N914／1N414日 SOT－23 SMT | N 8＊ |
| D110 | C 9283－0 | DIODE，1N314／1N414日 SOT－23 SMT | N 8＊ |
| D111 | C 9283－0 | DIDDE． $1 \mathrm{~N} 914 / 1 \mathrm{~N} 414 \mathrm{~B}$ SOT－23 SMT | N 8＊＊ |
| D112 | C 92日3－0 | DIDDE，1NG14／1N414日 SOT－23 5MT | N 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

CROWN INTERNATIDNAL INC． 171日 WE5T MISHAWAKA ROAD ELKHART．INDIANA 46517 PHONE（219）294－88BE


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC |
| D113 | C 92日3－0 | DIODE．1N914／1N4148 SOT－23 5MT | N 8＊ |
| D1 14 | C10422－1 | DIODE，3A 400V 1N5404 AXIAL | I 6 |
| D115 | C10422－1 | DIODE．3A 400V 1 N 5404 A IAL | I 5 |
| D116 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | G $8^{*}$ |
| D117 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | M 10＊ |
| D118 | C 92日3－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | N 10＊ |
| D119 | ᄃ 92日3－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | I $9^{*}$ |
| D120 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | $19^{*}$ |
| D121 | C 92日3－0 | DIODE，1NS14／1N4148 SOT－23 SMT | L O＊$^{*}$ |
| D1 22 | ᄃ 92日3－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | M $9^{*}$ |
| D123 | C 92日3－0 | DIODE，1N914／1N4148 5DT－23 SMT | G $9^{*}$ |
| D124 | ᄃ 9283－® | DIODE．1N914／1N4148 SOT－23 SMT | G 7＊ |
| D1 25 | C 9283－0 | DIODE．1N914／1N4148 50T－23 5MT | H 7＊ |
| D126 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | M 7 |
| D127 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | M 8 |
| D12日 | C 9283－0 | DIODE，1NS14／1N4148 5DT－23 5MT | G 7＊ |
| D129 | ᄃ 9283－0 | DIODE，iNS14／1N4148 SOT－23 SMT | G $\square^{*}$ |
| D201 | C 9283－0 | DIODE，1N914／iN414日 SOT－23 SMT | K 9＊ |
| 0202 | ᄃ 9283－0 | DIODE， $1 \mathrm{NS14/1N4148} \mathrm{SOT-23} \mathrm{SMT}$ | K 9＊$^{*}$ |
| D203 | ［ 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | J 9＊ |
| D204 | ᄃ 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 ＊$^{*}$ |
| D205 | ［ 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 ＊＊$^{*}$ |
| D206 | ᄃ 9283－0 | DIODE，1N914／1N414日 50T－23 5MT | K 日＊ |
| D207 | C 9283－2 | DIODE．1N914／1N414日 SOT－23 SMT | K $8^{*}$ |
| D20日 | C 92日3－0 | DIODE， $1 \mathrm{NS14/1N414日} \mathrm{SOT-23} \mathrm{5MT}$ | K 7＊ |
| D209 | C 9283－8 | DIODE，1N914／1N4148 SOT－23 SMT | K $\mathrm{B}^{*}$ |
| D210 | ［ 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 8＊ |
| D211 | C 92日3－0 | DIODE，1N914／1N4148 50T－23 5MT | K $8^{*}$ |
| D212 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | K 8＊ |
| D213 | C 32日3－0 | DIODE，1NS14／1N4148 50T－23 5MT | K 8＊ |
| D214 | C10422－1 | DIODE．3A 400V 1 N5404 AXIAL | I 3 |
| D215 | C10422－1 | DIODE，3A 400V 1 N5404 AXIAL | 12 |
| D216 | C 92日3－0 | DIODE．1N914／1N4148 SOT－23 SMT | E $8^{*}$ |
| D217 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 10＊ |
| D218 | C 9283－0 | DIODE．INS14／1N4148 SOT－23 SMT | L 10＊ |
| D221 | C 9283－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | 」 $9^{*}$ |
| D222 | C 92日3－0 | DIODE，1N914／1N4148 50T－23 SMT | K 9＊ |
| D223 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 5MT | E 9＊ |
| D224 | C 92日3－0 | DIODE，1N914／1N4148 50T－23 5MT | E $7 *$ |
| D225 | C 9283－0 | DIQDE，1N914／1N4148 SOT－23 SMT | F 7＊ |
| D226 | C 92日3－0 | DIODE，1N914／1N4148 SQT－23 SMT | K 7 |
| D227 | C 92日3－0 | DIODE．1N914／1N4148 SOT－23 SMT | K 日 |
| D22日 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | E 7＊ |
| D229 | C 9283－0 | DIODE，1N914／1N414B SOT－23 5MT | F 6＊ |
| E1 | 102476－1 | LED．SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | J 1 |
| E101 | 102476－1 | LED，SMT R／A GREEN | J 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| E102 | 102477－1 | LEED，SMT R／A RED |  |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E201 | 102476－1 | LED，SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| HS 1 | 102571－3 | HS ASM．T1 NON－ISOLATED CH1． | L 6 |
| HS2 | 102572－3 | HS ASM，T1 NON－ISOLATED CH2． | L 3 |
| HS3 | 102569－3 | HS ASM．T1 ISOLATED CH1． | G 6 |
| H54 | 102570－3 | HS ASM，T1 ISOLATED CH2， | G 3 |
| HWI | 102608－1 | SPACER． $6 \times 197$ LONG ALUMINUM | A 4 |
| HW2 | 10260日－1 | SPACER．EX． 1 日7 LONG ALUMINUM | A 4 |
| HW3 | 10260日－1 | SPACER，6X．1日7 LQNG ALUMINUM | A 4 |
| HW4 | 10260日－1 | SPACER， $6 \times 187$ LONG ALUMINUM | A 4 |
| HW5 | 102608－1 | SPACER， $6 \times .167$ LONG ALUMINUM | A 4 |
| HW6 | 10260日－1 | SPACER，6X．1日7 LONG ALUMINUM | B 4 |
| HW7 | 10260日－1 | SPACER，6X．1日7 LONG ALUMINUM | B 4 |
| HW8 | 102608－1 | SPACER，6X．1日7 LONG ALUMINLM | B 4 |
| HW9 | A10020－7 | $6-32 \times .625$ PCB［APTIVE STUD | D 5 |
| HWI 0 | A10日2日－7 | 6－32 $\times .525$ PCB CAPTIVE STUD | 16 |
| HWI 1 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STLD | I 3 |
| HWI 3 | A10820－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 5 |
| HW1 4 | A10020－7 | 6－32 $\times$ ． 525 PCB CAPTIVE STUD | N 6 |
| HW15 | A10820－7 | $6-32 \times .625$ PCB CAPTIVE 5TUD | 」 2 |
| HW16 | A10620－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 3 |
| HW1 7 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1 日 | A1 1856－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW19 | A1 1056－1 | 6－32 HE× NUT W／日ELLEVILLE | A 4 |
| HW20 | A1 1856－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW2 1 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW22 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | B 4 |
| HW23 | A1 1856－1 | 6－32 HEX NUT W／日ELLEVILLE | 目 4 |
| HW2 4 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | 日 4 |
| HW25 | 102579－1 | STAND． $1 / 4$ RD SWAGE AL | A 1 |
| HW2E | 102579－1 | STAND． $1 / 4$ RD SWAGE AL | A 2 |
| HW27 | 103415－70608 | SCREW．6－32 $\times$ ． 5 TORX PNHD SEM | A 4 |
| HW28 | 103415－70608 | SCAEW．$-3-32 \times .5$ TORX PNHD SEM | A 4 |
| $J 2$ | 101573－1 | HDA 4 POS ． 1 ［TR MTA SHRD | G 10 |
| 53 | 102472－3 | HDR，IEPOS ． 100 CTR SGL ROW | M 8 |
| 14 | 101571－1 | HDA 2 POS． 1 CTR MTA SHRD | L 10 |
| 」 5 | 101993－1 | JACK，GP4 COND MODLLAR R／A | N 10 |
| 」100 | 102473－1 | SPEAKON， 4 PQLE PCE HORZ | D 10 |
| J200 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | F 10 |
| 」500 | 1 26929－1 | 1／4＂TRS／XLR COMBO PCB VERT | 日 3 |
| J502 | 102471－2 | HDR．12POS 2．5MM RT ANG KEYED | C 1 |
| J600 | 128929－1 | 1／4＂TRS／XLR COMEO PE日 VERT | 日 1 |
| K100 | 126317－1 | REL，30A 24 V SPST PCE W／FASTON | G 9 |
| K200 | 126317－1 | REL，30A 24 V SPST PC日 W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE．470UH 10\％AXIAL | N 7 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| SHALL NOT EE AERROUCED COPNED：OR USED AF APPAAATUS OR DEVICES WITHOUT PERMISSIO |
| :---: |
|  |  |


|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| DRAMN | JFL． | 9－23－9日 | DWG．NO． | $\begin{aligned} & \text { SHEET 18 OF 28 } \\ & \square 213-8 \end{aligned}$ |  |  |  | （B） |
| PROS． | MD390．0 |  |  |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
|  | C．3518－2 | CHOKE，470UH 10\％AXIAL | I 7 |
| L102 | 102470－1 | INDUETOR，2．75UH 1／A RADIAL | H 日 |
| L2B0 | C 3510－2 | CHOKE． 470 LH 10\％AXIAL | J 1 |
| L． 261 | C 3510－2 | CHOKE， 470 UH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | I 1 |
| 01 | 102479－1 | PWR M」D112 NPN DARLINGTON 1日QV | H 10 |
| 02 | 102479－1 | PWR MJD112 NPN DARLINGTON 10日V | I 10 |
| Q180 | C 7448－1 | MMET3904 CHIP NPN | M ${ }^{*}$ |
| Q181 | C 7448－1 | MMET3904 CHIP NPN | M ${ }^{*}$ |
| 0182 | C 9931－4 | MMET50日7LT1 PNP XSISTDR 50T－23 | N 9＊ |
| Q183 | 102483－1 | PNP 300V 500MA SOT－23 | L ${ }^{*}$ |
| 0184 | ᄃ 9252－5 | 2N3904 40V NPN TRANSISTOR | I 6 |
| Q185 | 183193－1 | PNP 300V 500MA 50MHZ SOT－223 | M 7 ＊ |
| 0107 | 183192－1 | NPN 30日V 500MA 50MHZ 50T－223 | M ${ }^{*}$ |
| Q188 | 102481－1 | NPN 25V LOW NOISE SOT－23 | N 日＊ |
| Q109 | C 9931－4 | MMET5087LT1 PNP $\times 5$ ISTOR SOT－23 | N $\mathrm{B}^{*}$ |
| O110 | 103192－1 | NPN 30日V 500MA 50MHZ 50T－223 | N 7＊ |
| Q111 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q1 12 |  | INSTALLED ON THE PREVIQUS ASSEMELY | N 7 |
| Q114 |  | INSTALLED ON THE PREVIOUS ASSEMBL Y | J 6 |
| 0115 |  | INSTALLED ON THE PREVIOUS ASSEMELY | K 5 |
| 0118 |  | INSTALLED ON THE PREVIOUS ASSEMELY | M 6 |
| 0119 |  | INSTALLED ON THE PREVIOUS ASSEMELY | N 5 |
| 0128 | 103193－1 | PNP 300V 500MA 50MH2 SOT－223 | I 7＊ |
| 0121 |  | INSTALLED ON THE PREVIOUS ASSEMELY | 17 |
| Q123 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | E 6 |
| 0124 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | E 5 |
| Q127 |  | INSTALLED ON THE PREVIOUS ASSEMELY | H E |
| Q128 |  | INSTALLED ON THE PREVIOUS ASSEM日LY | H 5 |
| 0129 | C 744日－1 | MM日T3904 CHIP NPN | L 9＊ |
| 0131 | 125106－1 | MAC9D 日 AMP 400V TRIAC | F 9 |
| 0132 | 10247日－1 | TRIAC DRIVER SES BV THRESH | F 9 |
| 0133 | 102480－1 | FET，N－CH 25V 5QMA SOT－23 | M 9＊ |
| Q200 | C 744日－1 | MM日TЭ904 CHIP NPN | K $\mathrm{S}^{*}$ |
| 0201 | C 744日－1 | MM19T3904 CHIP NPN | K 9＊ |
| Q202 | C 9931－4 | MMET5087LT1 PNP XSISTOR 50T－23 | L \％$^{*}$ |
| 0203 | 102483－1 | PNP 300V 500MA SOT－23 | J 9＊ |
| Q204 | ［ 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| 0205 | 183193－1 | PNP 300V 50ßMA 50MHZ SDT－223 | 」 7＊ |
| Q207 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | K 7＊ |
| 0208 | 182481－1 | NPN 25V LOW NOISE SOT－23 | く 7＊ |
| Q209 | C 9931－4 | MMET50日7LT1 PNP $\times$ SISTDR SOT－23 | K $8^{*}$ |
| Q210 | 183192－1 | NPN 300V 500MA 50MHZ SOT－223 | J 2＊ |
| 0211 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | 」 ${ }^{*}$ |
| Q212 |  | INSTALLED ON THE PREVIOUS ASSEMELY | 」 2 |
| Q214 |  | INSTALLED ON THE PREVIOLS ASSEMELY | J 3 |
| D215 |  | INSTALLED ON THE PREVIOUS ASSEMELY | ＋ 3 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| 0218 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | M 3 |
| 0219 |  | INSTALLED ON THE PREVIOUS ASSEMELY | N |
| 0220 | 103193－1 | PNP 30QV 500MA 50M | D 2＊ |
| 0221 |  | INSTALLED ON THE PREVIOUS ASSEMELY | D 2 |
| 0223 |  | INSTALLED ON THE PREVIOUS ASSEMGLY | E 3 |
| Q224 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | E 3 |
| 0227 |  | INSTALLED ON THE PREVIOUS ASSEM日LY | H 3 |
| 0228 |  | INSTALLED ON THE PREVIOUS ASSEMELY | H 3 |
| 0229 | C 7448－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 125106－1 | MACSD 日 AMP 4EOV TAIAC | E 9 |
| 0232 | 102478－1 | TRIAC DAIVER SBS BV THRESH | F |
| 0233 | 102480－1 | FET，N－CH 25 V S0MA SOT－23 | 」 9＊ |
| R1 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 8＊ |
| R2 | A11371－2225 | 2． 2 K 1W 5\％CHIP 2512 | $18{ }^{\text {¢ }}$ |
| R3 | A11371－3341 | 330K 0．10W 5\％CHIP 8805 | I $8 *$ |
| R4 | A11371－3313 | 330 OHM 0．25w 5\％CHIP | I $1 *$ |
| RS | A11368－76811 | 7.68 KOHM 0.10 W 1\％SMT 0805 | D 8＊＊ |
| R¢ | A11368－93111 | 9．31K 0．1W 1\％CHIP 8日05 | D 8＊ |
| R7 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ LHIP 2512 | 」 $\mathrm{B}^{*}$ |
| R8 | A11371－1822 | 1K 0．125W 5\％CHIP 1286 | N 10＊ |
| RS | A11368－10821 | 10K 1／10W 1\％CHIP 0a85 | H 9＊ |
| R10 | A11368－20823 | 20K Q．25W 1\％CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330K 0．10W 5\％CHIP 日B05 | I 9＊ |
| R12 | A11368－6日121 | 68．1K 0．10W 1\％CHIP | I 9＊ |
| R13 | A11371－1811 | 100 OHM 0．10W 5\％CHIP 0805 | I 10＊＊ |
| R14 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R15 | A11371－0R21 | 0.2 OHM 0．18W 5\％CHIP 0805 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | B． 25 K 0．1W 1\％CHIP 0805 | F 10＊ |
| R18 | A113E8－71511 |  | D 8＊ |
| R19 | A11371－3313 | 330 OHM 0．25w $5 \%$ CHIP | $1{ }^{1 *}$ |
| R20 | A11368－57521 | 57.6 K 0．10W 1\％CHIP 8日®5 | I $9 *$ |
| F21 | A11368－12121 | 12.1 K OHM 日． 10 W 1\％CHIP 0885 | J 9＊ |
| R22 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | I $9^{*}$ |
| R23 | A11368－39231 | 392K 0．18W 1\％CHIP 日805 | I 9＊ |
| R24 | A1136B－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0005 | I ${ }^{*}$ |
| R25 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0日®5 | N 9＊ |
| R26 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | A 9＊ |
| R27 | A11358－10021 | 10X 1／10w 1\％CHIP 0805 | L．9＊ |
| R28 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L 9＊ |
| R29 |  | OPEN |  |
| R30 | A11368－10031 | 100K 0.1 W 1\％CHIP 0日85 | I $\mathrm{B}^{*}$ |
| R31 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | 」 ${ }^{\text {＊}}$ |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11358－10011 | 1K 0．10W 1\％CHIP 0BE5 | M 10＊ |
| R102 | A11368－39231 | 392K 0．10W 1\％CHIP Q805 | N 9＊ |
| 8103 | A11358－49901 | 499 OHM 0．10W 1\％CHIP 0日05 | N 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| R104 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | N 9＊ |
| R105 | A11371－6814 | E80 OHM D．50W 5\％LHIP | 」 1＊ |
| R106 | A11368－10011 | 1K D．10W 1\％CHIP D日05 | M 9＊ |
| R107 | A11368－10021 | 10K 1／18W 1\％CHIP 0885 | L 10＊ |
| R10日 | A11358－10621 | 10K 1／18W 1\％CHIP B日B5 | L 10＊ |
| R109 | A11368－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | M $3^{*}$ |
| R110 | A11358－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊$^{*}$ |
| R111 | A11358－10．${ }^{\text {A }}$（1） | 10K 1／10W 1\％CHIP 0805 | L 9＊ |
| R112 | A10265－19121 | 19.1 K Q． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 9 |
| R113 | A）1358－51111 | 5.11 K OHM 0．18W 1\％CHIP 0805 | L 10＊ |
| R114 | A11368－82511 | $8.25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP B日®5 | ᄂ 10＊＊ |
| R115 | A11368－68121 | 8日． 1 K ロ．18W 1\％CHIP | L 10＊ |
| R116 | A11358－22501 | 226 OHM 0．10W 1\％CHIP 0805 | M $9^{*}$ |
| R117 | A11371－3341 | 330K 0．1日W 5\％CHIP 0805 | M 9＊ |
| R118 | A1138日－6日111 | 6.81 K OHM 0．18W $1 \%$ LHIP 0日®5 | M 10 |
| R119 | A11371－3333 | 33 K 0.25 W 5\％CHIP 1210 | M $9^{*}$ |
| R120 | A11358－90921 | 90．9K 日．18W 1\％LHIP 8805 | M $9^{*}$ |
| R121 | A11368－10021 | 10K 1／10W 1\％EHIP 0日05 | M 10 |
| R122 | A1136B－15831 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R123 | A11358－10031 | 100K 0．1W $1 \%$ CHIP 0日05 | M 9＊ |
| R124 | A11368－15831 | 158K 0．10W 1\％LHIP 0805 | M 9＊ |
| R125 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 0805 | N 9＊ |
| R126 | A11358－39231 | 392K 0．10W 1\％CHIP 0805 | M $9^{*}$ |
| R127 | A 11371－8日21 | 6．8K 0．10W 5\％CHIP 0B05 | N 9＊ |
| R128 | A11371－6814 |  | 」 1＊ |
| R129 | A11371－日211 | B20 OHM D．10W 5\％CHIP | N 7＊ |
| A130 |  | OPEN | 0日＊ |
| R131 |  | OPEN | －$日^{*}$ |
| R132 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H $\mathrm{B}^{*}$ |
| R133 | A11371－7511 | 750 OHM B．10W 5\％CHIP | H $\mathrm{E}^{*}$ |
| R134 | C10513－5 | 1 K TOP ADJUST TRIMMEA T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7＊ |
| R136 | A11371－日201 | 82 OHM $0.10 \mathrm{~W} 5 \%$ CHIP | M 7＊ |
| R137 | A1136B～49901 | 499 OHM 0．10W 1\％CHIP 0805 | N $\mathrm{B}^{*}$ |
| R138 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| A139 | A11368－13703 | 137 OHM D．25W 1\％CHIP | N 日＊ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $\mathrm{B}^{*}$ |
| R141 | A11371－8211 | 日20 OHM 日．10W 5\％CHIP | － $\mathrm{B}^{*}$ |
| R142 | 125478－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} 1 \% 2010 \mathrm{~T} / \mathrm{R}$ | O 日＊ |
| H143 | A11371～3333 | 33K 0．25W 5\％CHIP 1210 | N日＊ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N $\mathrm{O}^{*}$ |
| A145 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N ${ }^{*}$ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R147 | A11371－1011 | 10 O OHM B． 10 W 5\％CHIP 0日05 | N 7＊ |
| R148 | A11371－1811 | 190 OHM В．10W 5\％टHIP | M 7＊ |
| P150 | A11371－5R63 | 5．6 0．25W 5\％CHIP | N 6＊ |
| R152 | 103189－1 | Q． 4 OHM 1W 5\％ 2512 T／R | K $6^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| A153 | 103199－1 | D． 4 OHM 1W 5\％25i2 T／R | K 5＊ |
| R158 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M E＊ |
| R157 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R15日 | A10266－2R74 | 2．7 OHM 2W 5\％CF | I 8 |
| R159 | 103199－1 | Q． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D $\mathrm{E}^{*}$ |
| R160 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | H 7＊ |
| R162 | A11371－4701 | 47 OHM 0．10W 5\％LHIP | H 7＊ |
| R163 | A11371－1811 | 180 OHM D．10W 5\％CHIP | I 7＊ |
| R165 | A11371－5R63 | 5.6 0．25W 5\％CHIP | I 5＊ |
| R167 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R168 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F $\mathrm{E}^{*}$ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | G B $^{*}$ |
| R172 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H $\mathrm{G}^{*}$ |
| R174 | A11371－4751 | 4．7M D．10W 5\％CHIP 0日05 | G 日＊ |
| R175 | A1136日－51111 | $5.11 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0805}$ | G $日^{*}$ |
| R176 | A11368－18021 | 10K 1／10W 1\％EHIP ロ日日5 | G 日＊ |
| R177 | A1136日－10021 | 10K 1／10W 1\％LHIP 0805 | H $\mathrm{E}^{*}$ |
| R178 | A11358－90921 | 98．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0885 | N 9＊ |
| R179 | A11358－10031 | 10日K 0．1W 1\％EHIP 0日05 | F 7＊ |
| R180 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | G $\mathrm{B}^{*}$ |
| R181 | A11371－6814 | 688 OHM 0．50W 5\％CHIP | 」 $1^{*}$ |
| F1日2 | A1136B－10021 | 10K 1／18W 1\％EHIP D日ES | F $\mathrm{O}^{*}$ |
| F193 | A11368－10031 | 108K 0．1W 1\％CHIP 0日E5 | F $\mathrm{B}^{*}$ |
| R184 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
| R185 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | G 8＊ |
| F186 | A113E日－10031 | 100K 0．1W 1\％CHIP 0805 | N 10＊ |
| R1日7 | A11368－15831 | 158K 0．10W 1\％CHIP 0805 | M 10＊ |
| R188 | A11368－15831 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 10＊ |
| R189 | A1136B－10831 | 100K 0．1W 1\％CHIP 0日05 | M 16＊ |
| R190 | A1136B－57621 | 57.5 K В．10W 1\％［HIP 0805 | N 6＊ |
| R191 | A1136日－22501 | 226 OHM D．10W 1\％CHIP 0805 | N 6＊ |
| R192 | A11371－4751 | 4．7M D．10W 5\％CHIP 0805 | L 9＊ |
| R193 | A1136日－10821 | 10K 1／ヶ0W 1\％CHIP 0日05 | N 9＊ |
| R194 | A11371－8201 | 82 OHM 0．10W 5\％EHIP | M 7＊ |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | M 7 ＊ |
| R200 | 102595－3 | POT，5K LIN 21 DNT 12MM HORIZ | $\mathrm{N} \boldsymbol{1}$ |
| R261 | A1136日－10011 | 1K D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R202 | A1136日－39231 | 392K 0．10W 1\％ChIP 8日05 | L $9^{*}$ |
| R203 | A1136日－49901 | 499 OHM D．10W 1\％CHIP 0805 | L 9＊ |
| R204 | A1136日－10821 | 10K 1／10W $1 \%$ CHIP 0805 | L 9＊ |
| R265 | A11371－6日14 | 680 OHM 0．50W 5\％EHIP | M 1＊ |
| R206 | A1136B－10011 | 1K 日．10W 1\％CHIP 日a05 | 」 9＊ |
| R20．9 | A113E日－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \% \mathrm{CHIP} 1206$ | K 9＊ |
| R210 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 $9^{*}$ |
| R211 | A1136B－10021 | 10K 1／10W 1\％CHIP 0805 | 」 」＊$^{\text {J }}$ |
| R212 | A10265－19121 | 15．1K 0．25W 1\％MF | 」 9 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LDC |
| R213 | A11368－51111 | S． 11 K OHM D．10W 1\％EHIP 0805 | 」 $10^{*}$ |
| R214 | A11368－82511 | 8．25K D． 1 W 1\％LHIP DBE5 | 」 $18 *$ |
| F215 | A11368－68121 | 68．1K Q．10W 1\％CHIP | 」10＊ |
| F216 | A19368－22601 | 226 OHM 0．10W $1 \%$ CHIP 0日B5 | K 9＊ |
| R217 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \%$ CHIP 0805 | J 9＊ |
| R21日 | A11368－68111 | 6．81K OHM 0．10W 1\％EHIP 8885 | K10 |
| R219 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 」 $3^{*}$ |
| R220 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0805 | K 9＊ |
| R221 | A11358－18021 | 10K 1／10W 1\％LHIP 0日®S | K 10 |
| R222 | A1136日－15831 | 158K D．10W 1\％CHIP 0日05 | K 9＊ |
| R223 | A1135日－10031 | 100 O － $1 \mathrm{~W} 1 \%$ LHIP 0805 | K 9＊ |
| R224 | A11368－15831 | 158 K 0．10W 1\％CHIP 0805 | K 9＊ |
| R225 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0日®5 | L 9＊ |
| R226 | A1136日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K $\mathrm{g}^{*}$ |
| R227 | A11371－6日21 | 6．8K $0.10 \mathrm{~W} 5 \%$ LHIP 0805 | K 9＊ |
| R228 | A11371－6814 | 680 OHM 0．50W 5\％LHIP | M ${ }^{*}$ |
| R229 | A11371－6211 | 日20 ロHM 0．10W 5\％EHIP | K 7＊ |
| R230 |  | OPEN | L． $7 *$ |
| R231 |  | OPEN | L ${ }^{*}$ |
| R232 | A11371－2223 | 2．2K $0.25 \mathrm{~W} 5 \%$ EHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM D．10W 5\％［HIP | H ${ }^{*}$ |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3． 9 K ®．25W 5\％EHIP | 」 7＊ |
| R236 | A11371－8201 | B2 OHM 0．10W 5\％CHIP | 」 7＊ |
| R237 | A19368－49901 | 49 S OHM 0．10W 1\％CHIP 0805 | K $日^{*}$ |
| R238 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A11368－13783 | $1370 \mathrm{OMM} \mathrm{Q} .25 \mathrm{~W} 1 \% \mathrm{CHIP}$ | K $日^{*}$ |
| A240 | A）1371－3333 | 33K 0．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 OHM 0．10w 5\％CHIP | L 日＊ |
| R242 | 125478－1 | $3.83 \mathrm{KOHM} 0.50 \mathrm{~W} 1 \% 2010 \mathrm{~T} / \mathrm{R}$ | L 7 ＊ |
| R243 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | K $8^{*}$ |
| R244 | A11371－1213 | $12 \mathrm{OHM} 0.25 \mathrm{~W} 5 \%$ EHIP | K $日^{*}$ |
| R245 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $日^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％EHIP 0805 | 」 ＊＊$^{\text {J }}$ |
| R247 | A11371－1011 | 10 O OHM $0.10 \mathrm{~W} 5 \%$ LHIP 0B05 | 」 $2^{*}$ |
| A24B | A11371－181！ | 180 OHM 0．10W 5\％CHIP | K $2^{*}$ |
| R250 | A11371－5963 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 」 2＊ |
| R252 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{A}$ | K 4＊ |
| R253 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | N 4＊ |
| R257 | 103198－1 | 0.4 OHM 1W $5 \% 2512 \mathrm{~T} / \mathrm{R}$ | N ${ }^{*}$ |
| R259 | 103199－1 | 0.4 OHM 1W 5\％25i2 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM D． $10 \mathrm{~W} 5 \%$ CHIP | D $1^{*}$ |
| R261 | A11371－1331 | 13 K DHM D． $10 \mathrm{~W} 5 \%$ CHIP 0E05 | E 2＊ |
| R262 | A11371－4701 | 47 OHM 日． 10 D 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 188 OHM 0．10W 5\％CHIP | E $2^{*}$ |
| R265 | A11371－5R63 | $5.68 .25 \mathrm{~W} 5 \%$ CHIP | E $2^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| R267 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E $4^{*}$ |
| R268 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R271 | 103199－1 | 0.4 OHM 1W 5\％25：2 T／R | H 4＊$^{*}$ |
| R272 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A11371－4751 | 4．7M 0．10W 5\％CHIP 0日05 | E 日＊ |
| R275 | A11368－51111 | $5.1 \mathrm{KK} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} 0$ O05 | E $\mathrm{B}^{*}$ |
| R276 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | E $\mathrm{E}^{*}$ |
| R277 | A113E日－10021 | 10K 1／10W 1\％CHIP 0805 | E $日^{*}$ |
| R27日 | A1136日－90921 | 90．9K 0．10W 1\％CHIP 0．05 | L S＊$^{*}$ |
| R279 | A11368－10031 | 10ロK 0．1W $1 \%$ CHIP BBQ5 | E 7＊ |
| R280 | A11368－39231 | 392K 0．10W 1\％EHIP 0日05 | E 8＊ |
| R281 | A11371－6日14 | EBD OHM 0．50W 5\％CHIP | M $1^{*}$ |
| R282 | A1136日－10021 | $10 K 1 / 10 W 1 \%$ CHIP BED5 | D 日＊ |
| R283 | A11368－10031 | 100K 0．1W 1\％CHIP 8B05 | E $\mathrm{B}^{*}$ |
| R284 | A1136日－20023 | 20K 日．25W $1 \%$ CHIP 1210 | F S＊$^{*}$ |
| R285 | A1136日－10021 | 10K 1／10W 1\％CHIP 8日®5 | F 日＊ |
| R286 | A1136日－10831 | 100K 0．1W 1\％CHIP D日®S | L 10＊ |
| R287 | A11368－15831 | 158K 0．10W 1\％CHIP 0e05 | K 10＊ |
| R28日 | A113E日－1583： | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R283 | A1136日－10031 | 1 D0K 0．1 W $1 \%$ CHIP D日e5 | K 10＊ |
| R290 | A1135日－57621 | 57． $5 \times$ ¢． $10 \mathrm{~W} 1 \%$ CHIP 8日05 | N $3^{*}$ |
| R291 | A1136日－22601 | 226 OHM 日．10W 1\％LHIP 0日05 | N 3＊ |
| R292 | A1 1371－4751 | $4.7 \mathrm{M} \mathrm{D.10W} 5 \%$ CHIP 0805 | 」 9＊ |
| R293 | A1136日－10021 | 10K 1／10W 1\％CHIP D日®5 | K $9^{*}$ |
| R294 | A1 1371－日201 | B2 OHM B．10W 5\％CHIP | 」 $7^{*}$ |
| R295 | A11371－日211 | 日20 OHM 0．10W 5\％CHIP | 」 7＊ |
| R300 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 25: 2 \mathrm{~T} / \mathrm{R}$ | D 6＊ |
| R301 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | J 6＊ |
| R302 | 103193－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512$ T／R | K 5＊ |
| R305 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
| R306 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R307 | 193199－1 | 0．4 OHM 1W 5\％2512 T／R | E 6＊ |
| R308 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 6＊ |
| R311 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R312 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／R | $16^{*}$ |
| R313 | A）1368－10021 | 10K 1／10W 1\％CHIP D日05 | G $7^{*}$ |
| R314 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \% \mathrm{CHIP}$ 0日05 | G 7＊ |
| R315 | A11368－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0BB5 | H 7＊ |
| R316 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D日®5 | M 10＊ |
| R317 | A11371－3934 | 39K OHM B．50W 5\％CHIP 1210 | N 8 |
| R31日 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | $10 \mathrm{OHM} .25 \mathrm{~W} 5 \% 1210$ SMT T／R | L 9 |
| R323 | A11371－0R02 | 0.0 OHM JUMPER CHIP 1206 | G 8 |
| R400 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D $3^{*}$ |
| R401 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | 」 $4^{*}$ |
| R402 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

THESE DRAWINGS AND SPECTFICATIONS ARE THE

 APPARATUS OR DEVICES WI THOUT PERMISSIDN


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M $4^{*}$ |
| R406 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R407 | 183199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E $4^{*}$ |
| R40日 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／R | F $3^{*}$ |
| R411 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | H $4^{*}$ |
| R412 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | I 3 ＊ |
| R413 | A1 13E日－10021 | 10K 1／10W 1\％CHIP D日05 | E $7^{*}$ |
| R414 | A11371－3341 | 330K D．10W 5\％CHIP D日05 | E $7 *$ |
| R4 15 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | E 7＊ |
| R416 | A1136日－10011 | 1K 0．10W 1\％CHIP 0805 | K 18＊ |
| R417 | A1 1371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R418 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | K 8 |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R55 | 5.8 OHM 1W 5\％CHIP 2512 | H ${ }^{*}$＊ |
| R422 | A11371－1013 | 100 OHM ．25W 5\％1210 5MT T／R | J 9 |
| R423 | A11371－0R02 | D．0 OHM JUMPER CHIP 120 E | F 8 |
| R500 | A11368－10921 | 10K 1／10W 1\％CHIP 0日B5 | A 3 |
| R591 | A1 138B－10021 | 10K 1／10W 1\％CHIP ge0s | A 2 |
| R502 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP D日E5 | 日 2 |
| R583 | A）138日－18021 | 10K 1／10W 1\％CHIP 0日05 | 日 2 |
| R504 | A 11388 －10021 | 10K 1／10W $1 \%$ CHIP 0日e5 | A 2 |
| R508 | A11368－10021 | 10K 1／10W 1\％CHIP 0日®5 | A 2 |
| R508 |  | OPEN | C 2 |
| F500 | A11368－10021 | 10K 1／10W 1\％CHIP D日⿹勹 | A 1 |
| R60 1 | A11388－10021 | $10 \mathrm{~K} 1 / 1 \mathrm{DW} 1 \%$ CHIP 0805 |  |
| R602 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP g805 | A 2 |
| R603 | A11368－10221 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | A 2 |
| REQ4 | A11369－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R608 | A11368－10021 | 10K 1／10W 1\％CHIP D805 | B 2 |
| R607 | A11371－8205 | 82 OHM $1 \mathrm{~W} 5 \%$ CHIP 2512 |  |
| R60］ |  | OPEN | C 1 |
| 51 | 126325－1 | DPDT MINI SLIDE NON－SHORT PC | L 10 |
| 5100 | 102488－1 | SPDT VERT SLIDE 12 MM SHAFT | L 10 |
| TB1 | 102475－1 | BLOCK． 5 POS TERMINAL． | A 2 |
| TP38 | C 9日96－9 | TEST POINT LOOP | K 1 |
| TP39 | c．9896－9 | TEST POINT LOOP | N 7 |
| U1 | C 5095－2 | POS． 15 VOLT REG． | H 10 |
| U1X | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |
| ப2 | C 5096－0 | NEG． 15 VOL T REG． | H 9 |
| ப $2 \times$ | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |
| ப3 | 1024日6－1 | OPTO BJT NPN 5OIC－B CTR $=100 \%$ | N 10 |
| U4 | C 8282－5 | MC3307日D DUAL LO NOISE OP AMP | I 9 |
| U5 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | N 9 |
| ப100 | 102723－2 | OPTO CELL ON＝500 OHM | M 9 |
| －181 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |
| ப102 | C 9838－8 | COMPARATOR．QUAD LM339D SD－14 | N 9 |
| ப104 | C 9038－8 | COMPARATOR，QUAD L．M339D SO－14 | G 7 |
| U105 | C 8282－5 | ME3307日D DUAL LO NOISE OP AMP | F 7 |
|  |  |  |  |

## INACTIVE

For Reference Use Only



## Component Map

for use with
Main PWA \#102139-8



INACTIVE
For Reference Use Only


| E．C． | ZONE | REV． | DESCAIPTION | DATE | EY | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | CHK | CM | EE | PE |
|  |  | A | INITIAL RELEASE TO PRODUCTION\｛LEVEL（） | 12－22－9日 | JAW | JW |  |  | TS |
| 9950042 |  | 日 | C696．C607．C5日8 WERE 2．7 OHM．HW27．HW2日 WERE 103415－70608．WPI WAS A1137日－A050S． WP3 WAS A1t37日－c050S． | 101－28－99 | JAW | $K w$ | 6 |  |  |
|  |  |  |  |  |  |  |  |  |  |

NOTES：
1．SChematic drawing number 102141．
2．PWE PART NUMBER $102138-9$.
3．THE PWA Shall meet the ipc－a－E10＿class 2 standards．
4．ALL LEADS SHALL GE TRIMMED TO 日．893＂OR LESS．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
6．components that have（＊）after theif map location
are mounted on the bottom side of the printed circilt board．
7．remove solder or prevent solder from accumulating
IN HOLES．
日．the vent hole on top of the relays kige and k2日g must be opened after the cleaning process．by either removing the sealing tape OA CUTTING OFF THE CIRCULAR TAB WITH AN＂EXACTO＂KNIFE OR SIMULAR CUTTING tool．warning．this step mlist be done after the cleaning PROCESS NOT BEFDRE！！！WATER OR CLEANING SOLVENTS ENTERING THE belay vent hole will damage the relay．
9．CONNECT THE WIRES TMAT COME FROM 0123 AND 0223
TO WP4 AND WPS RESPECTIVELY．
18．the pwa part numeer for this module shall be MARKED ON THE P．C．BOARD AND SHALL BE PERMANENT．
it．installation of ulog and uzeg is as follows：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOR H42902－9
118．日END TAANSISTOR AT G日 DEG．FLAT SIDE DOWN
i1c．place transistor into the pwe as shown on the component map detail b．
tid．MIX OUTPUT EPOXY and accelerator together．
apply the mixture to the transistor and heatsink．
the mixture must fill the heatsink hole and the
leads of the device．especially the center lead．
InCTE：NO VISIble air gaps around the transistor
and the transistor leads cannot toueh the heatsink，
ife．hold the transistor against the heatsink until epoxy sets－up
12．TORQUE 5－32 HEX NUTS（CPN AI1日56－1）AS FOLLOWS：
12A．PRE－WAVE TOROUE OF 4－6 INCH LBS．
12B．POST－WAVE AND WHEN ASSEmGLY has cOOLED DOWN TO HANDLING temperature toraue of t3－i5 inch lbs．
13．INSTALL $\$ 3$ CONNECTOR AS SHOHN ON COMPONENT MAP
14．LAEEL INPUT PWA WITH CPN 1268日3－2 ON COMPONENT SIDE．

$\xrightarrow[\text { For Reference Use Only }]{\text { INACTIVE }}$

THESE DAAWINGS AND SPECIFICATIONS ARE THE THESE DAAWINGS AND SPECIFICATIGNS ARE THE
PROPERTY DF CROWN INTERNATIONAL，INC，AND PROPERTY DF CRDWN INTERNATIONAL，INC，AND
SHALL NOT BE REPRODUCED．COPIED，OR USED SHALL NOT BE REPRODUCED．CDP IED，OR USED
AS THE GASIS FOA THE MANUFACTURE OR SALE DF APPARATUS OR DEVICES WITHOUT PERMISSION．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10020－7 | 6－32 $\times .625$ PCE CAPTIVE STUD | 8 | HW9．HW10，HW1 1．HW1 2．HW1 3．HW1 4． |
|  |  |  | HW15，HW16 |
| A10265－19121 | 19．1 K 0．25W $1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A1026E－2R74 | 2.7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104」D | 0.1 MF 250V 5\％MTL POLY | 2 | C118，C218 |
| A11056－1 | E－32 HEX NபT W／BELLEVILLE | 日 | HW17，HW1日．HW19，HW20．HW21． |
|  |  |  | HW22，HW2 3．HW24 |
| A1136B－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | 8 | R101，R106．R110，R201．R206． |
|  |  |  | R210．R318．R41年 |
| A1：36日－10021 | 10K 1／18W \％CHIP 0日E5 | 35 | R9，R104，R107，R10日，R111，R121． |
|  |  |  | R176，R177，R182，R185．R193． |
|  |  |  | R196，R204．R211．R221，R276． |
|  |  |  | R277，R282．R285，R293．R296． |
|  |  |  | R313．R413．R506，R501．R502． |
|  |  |  | R503，R504，R506，R600．R601． |
|  |  |  | RED2，RED3，RED4，RED6 |
| A11368－10031 | 100K 0．1W 1\％CHIP 0日05 | 15 | R25．R30，R31，R123．R125．R179． |
|  |  |  | R1日3，R1日6，f1日9，R223，R225， |
|  |  |  | R279，R283．R2日6．R289 |
| A1136日－12121 | 12.1 K OHM 0．18W 1\％CHIP 0805 | 1 | R21 |
| A1136日－13703 | 137 OHM 0．25W 1\％LHIP | 2 | R139，R239 |
| A1136日－15002 | 150 OHM 0．125W 1\％CHIP | 2 | A1 37，R237 |
| A11368－15831 | 15日K 0．10W 1\％CHIP DE05 | 日 | R122，R124，R1日7，R18日，R222， |
|  |  |  | R224．R287．R2日8 |
| A11368－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | 2 | R109，R209 |
| A1136日－20021 | 20K D．10W 1\％CHIP 日日05 | 1 | R27 |
| A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10．R1日4，R2日4 |
| A1136日－22601 | 226 OHM D． 10 W 1\％CHIP 日B05 | 4 | R116．R191，R216．R291 |
| A11368－39231 | 392K 日．10W 1\％CHIP 0805 | 6 | R22．R23．R102．R1BD．R202．R280 |
| A11368－49981 | 499 OHM ®． 10 W 1\％CHIP 0805 | 2 | R103．R203 |
| A11368－49921 | 49．9K 0．1W 1\％CHIP 0日05 | 2 | R126．R226 |
| A11368－51111 | 5.11 K OHM D．18W 1\％CHIP 0805 | 8 | R113，R175．R197．R213．R275． |
|  |  |  | R297，R315．R415 |
| A11368－57621 | 57．5K 0．10W 1\％CHIP 0805 | 4 | R20，R24．R190．R290 |
| A11368－60432 | 604K OHM 0．125W 1\％CHIP 1206 | 4 | R174，R192，R274，R292 |
| A11368－5B111 | 6.81 K OHM 0．10W 1\％CHIP 0805 | 2 | R118，R218 |
| A11368－68121 | $68.1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | 3 | R12．R115，R215 |
| A11368－69811 | 6．9aK OHM D． 10 W 1\％CHIP 0805 | 1 | R5 |
| A11368－71511 | 7．15K 1／10W 1\％EHIP 日日05 | 1 | R1星 |
| A11368－82511 | 8．25K 0．1W 1\％CHIP 0日05 | 3 | R17．R114，R214 |
| A11368－90921 | 90．9K 0．10W 1\％LHIP 0805 | 4 | R120．R179，R220，R278 |
| A11368－93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | RE |
| A11359－102J2 | Q．QR1LF 50V 5\％NPO MLC 0日05 | 2 | C134．C234 |
| A11369－120K2 | 12PF 50V 10\％NPD 0日05 T／R | B | C500． $5501.5502 .5600 .5601 . c 602 ~$ |
| A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | 2 | C107．С207 |
| A11369－330J2 | 33PF 50V 5\％NPO MLC 0805 | 2 | C142．c242 |
| A11369－471K2 | 470PF 50V 10\％NPQ 0805 T／R | 4 | C110．C141．c21日．c241 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |


| dramn | JAW | 12／21／98 | DWG． |
| :---: | :---: | :---: | :---: |
| PROJ． | MD390d8 |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－0R02 | ®．$\triangle$ OHM JUMPER LHIP 1205 | 4 | R199，R299，R323．R423 |
| A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0885 | 3 | R14．815．R33 |
| A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | 3 | R13．R147．R247 |
| A11371－1813 | 100 OHM．25W 5\％121® SMT T／R | 2 | R322，R422 |
| A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | 1 | R9 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 6 | R13日，R144，A145，R238，R244，R245 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | 4 | R146，R161．R246．R261 |
| A11371－1501 | 15 OHM 0．10W 5\％CHIP | 5 | C506．C607．C608．R160．R260 |
| A1 1371－1811 | 180 OHM 0．10W 5\％CHIP | 4 | R14日，R163，R248，R263 |
| A11371－2223 | 2．2K D．25W 5\％CHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2．2K 1W 5\％EHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | R4．R19 |
| A11371－3333 | 33K D．25W 5\％CHIP 1210 | 6 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330 K 0.10 W 5\％CHIP 0805 | 7 | R3．R11．R26．R117，R217．R314． |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16．R135，R235 |
| A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | 4 | R317，R31日，R417，R41日 |
| A11371－4701 | 47 OHM 0．10W 5\％LHIP | 2 | R162，R262 |
| A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 2 | R32．R34 |
| A11371－5R63 | 5.6 D．25W 5\％CHIP | 4 | R150，R165．R250，R255 |
| A11371－5R65 | 5.6 DHM 1W 5\％CHIP 2512 | 2 | P420．7421 |
| A11371－5日14 | 6日0 OHM 0．50W 5\％CHIP | 6 | R105，R12日．R1日1，R205．R22日，R2日1 |
| A11371－6日21 | 6．8K 0．10W 5\％CHIP 0日05 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R2B，R133．R233 |
| A11371－8201 | 82 DHM 0．10W 5\％CHIP | 4 | R136．R194．R236，R294 |
| A11371－8205 | 日2 OHM 1W 5\％CHIP 2512 | 1 | R607 |
| A11371－8211 | 日20 OHM D． 10 W 5\％EHIP | 5 | R129．R141．R195，R229，R241．R295 |
| A11378－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP 1 |
| A11379－C05DU | WIRE， 16 ELU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－1日3K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | 4 | c109．ट111．c209．c211 |
| A11427－103K5 | 0．01MF 50V 5\％X7R 1206 | 2 | C143．C243 |
| A11427－104K2 | 0.1 MF 50V 10\％ 0805 | 33 | C2，C6，［7，C12．C24，C25．C2B，C29， |
|  |  |  | C115．c122．c126．С127．C12日， |
|  |  |  | C129．c130．ट131．C132．c133． |
|  |  |  | C139，C215．E222．C226．c227． |
|  |  |  | C220，ᄃ229，［230，［231， 2232. |
|  |  |  | C233．С239．5505，c506．c605 |
| A1 1427－123K2 | 0.012 MF 50 V 10\％EHIP | 2 | C112．C212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP 0005 | 2 | C117． 2177 |
| A11427－472K2 | 470ロPF 50V 10\％×7A 0B05 | 4 | C116．［119．C216．C219 |
| A12125－3140K | WIRE， 22 WHT $3 / 16 \times 14 \times$ FAST | 1 | WF6 |
| C 2851－1 | 1N40日4 SILICON RECT． | 7 | D1．D2．D3．D4．D6．D7．D10 |
| C 3510－2 | CHOKE．470UH 10\％AXIAL | 4 | L100．L101．L200．L201 |
| c 3549－0 | DIODE ZENER，18V． 1 N5240日 | 1 | DB |
| C 3679－5 | 33LF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C．4．C5 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

|  <br>  |
| :---: |
|  |  |


| PAFTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．F．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| ᄃ 5095－2 | PO5． 15 VOLT REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| ᄃ 6802－0 | 47 MF 50 V AX CERM | 2 | C102，С202 |
| C 7091－9 | 0.33 MF 50 V CHIP 1206 | 3 | C22．c140． 2240 |
| C 7325－1 | 2P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 744日－1 | MMBT3904 EHIP NPN | 6 | 0100．0101．0129．0200．0201．0229 |
| C 6262－5 | ML3307日D DLJAL LO NOISE OP AM | 4 | U4，U5，ப105．ப205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9012－3 | ML33079D QUAD LD NOISE OP AM | 3 | 4101．4201．4500 |
| C 9038－8 | COMPARATOR，QUAD LM339D SO－1 | 4 | U102． $1104 . \mathrm{L} 202.1204$ |
| c 9157－6 |  | 2 | C123． 2223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | 0104．0204 |
| C 9283－0 | DIODE，1N914／1N414日 SOT－23 S | 56 | D9．D13．D101．D102．D103．D104． |
|  |  |  | D105．D105，D107．D18B，D109． |
|  |  |  | D110．D111．D112．D113．D116． |
|  |  |  | D117．D118．D119，D120．D121． |
|  |  |  | D122，D123，D124．Di25，D126， |
|  |  |  | D127．D1 28．D129，D130．D201． |
|  |  |  | D202．D203．D204．D205．D205． |
|  |  |  | D207．D208，D209，D210，D211． |
|  |  |  | D212．D213．D216，D217．D21日， |
|  |  |  | D221，D222，D223．D224．D225， |
|  |  |  | D226，D227，D22日，D229，D230 |
| C 9896－9 | TEST PDINT LDOP | 2 | TP38．TP39 |
| C 991日－1 | TO220 VERT CLIP－ON HEATSINK | 2 | L1X． L 2 X |
| C 9931－4 | MMBT5097LT1 PNP XSISTOR SOT－ | E | Q102．0109．0111．0202．0209，Q211 |
| C10196－1 | 2．2MF 50V 20\％RAD T／R | 4 | C121．E124．C221．C224 |
| ᄃ1020日－4 | 10 MF MF $25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105． 2205 |
| C10422－1 | DIODE，3A 400V 1N5404 AXIAL | 4 | D114．D115．D214．D215 |
| C10613－5 | 1 K TOP ADJWST TRIMMER T／R | 2 | R134．R234 |
| D 8917－3 | 日2ロaLF $110 \vee \mathrm{DC}$ ELECTROLYTIC | 2 | C20． 221 |
| H42902－9 | ASM，THERMAL SENSE | 2 | U106． 4206 |
|  |  |  |  |
| 101016－1 | LEL，BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON，AUTD INSERTAELE | 3 | WP 4 ，WP5，WP7 |
| 101571－1 | HDA 2 POS ． 1 CTA MTA SHPD | 1 | 14 |
| 101573－1 | HDA 4 POS ． 1 CTR MTA SHRD | 1 | 12 |
| 101993－1 | JACK，6P4 COND MODLLAR R／A | 1 | 15 |
| 102138－9 | PW日，CEIDO日／CE2000 MAIN／INPU | 1 | 1 |
| 10243日－101K2 | 1日QPF 200V 10\％NPO 0日05 | 6 | C104．C120．C135．C204．C220，C235 |
| 10243日－550K2 | 55PF 208V 10\％NPO 0805 | 4 | C106． 2206.5504 .2604 |
| 10243日－B20K2 | 日2PF 20ロV 10\％NPO 0805 | 4 | C10日，С13日，ᄃ208，С238 |
| 102465－1 | ．47UF 50V 20\％RADIAL T／R | 2 | C101． 201 |
| 10246日－1 | 10UF 250V 20\％FADIAL T／R | 1 | C1 |
| 102467－1 | 22MF 25V 20\％RAD T／R | 4 | C103．C203． 5 － 03.2603 |
| 10246日－1 | 47UF 10V 20\％NP RAD T／A | 4 | C113．C114．C213．C214 |
| 102470－1 | INDUCTOR，2．75LH 11A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR， $12 \mathrm{POS} \mathrm{2.5MM} \mathrm{RT} \mathrm{ANG} \mathrm{KEYE}$ | 1 | 1502 |
| 102472－3 | HDA，16POS ． 100 CTA SGL FOW | 1 | 13 |

## INACTIVE

For Reference Use Only



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| 102473－1 | SPEAKON， 4 POLE PCB HORZ | 2 | 1100． 1200 |
| 102475－1 | 日LOCK． 5 POS TERMINAL | 1 | TB1 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1．E101．E201 |
| 102477－1 | LED．SMT R／A RED | 4 | E180，E182，E20ロ，E2日2 |
| 10247日－1 | TRIAC DRIVER SBS BV THRESH | 2 | 0132.0232 |
| 102479－1 | PWA MJDI 12 NPN DARLINGTON 10 | 3 | 01．02．03 |
| 102480－1 | FET．N－CH 25V 50MA SOT－23 | 2 | Q133， 0233 |
| 1024日1－1 | NPN 25V LOW NOISE SOT－23 | 2 | Q108，0208 |
| 1024日3－1 | PNP 300V 500MA 50T－23 | 2 | Q103，Q203 |
| 1024日6－1 | QPTO BJT NPN SOIC－8 CTR＊100 | 1 | L3 |
| 102488－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102569－3 | HS ASM．T1 ISOLATED CH1，， | 1 | H53 |
| 102570－3 | HS ASM．T1 ISOLATED CH2． | 1 | HS4 |
| 102571－3 | HS ASM．T1 NON－ISOLATED CHI． | 1 | HS 1 |
| 102572－3 | HS ASM．T1 NON－ISOLATED CH2， | 1 | HS2 |
| 102579－1 | STAND， $1 / 4$ RD SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT．5K LIN 21 DNT 12MM HORI | 2 | R100．R208 |
| 10268B－t | SPACER，EX． 187 LONG ALLMINUM | 8 | HW1，HW2，HW3，HW4，HW5，HW6，HW7， |
|  |  |  | HWE |
| 102723－2 | OPTO CELL ON＝500 OHM | 2 | ப100． 1200 |
| 103180－1 | BUMPER，0．4＊TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 0．47UF Z5U 1210 20\％58V | 2 | ᄃ144．c244 |
| 103192－1 | NPN 300V 50QMA 50MHZ SOT－223 | 4 | Q107．Q110． 0207.0210 |
| 103193－1 | PNP 30日V 500MA 50MHZ 50T－223 | 4 | 0105.0120 .0205 .0220 |
| 103199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 38 | R1，R7，R152，R153，R156．R157． |
|  |  |  | R159，R167．R16日，R171．R172． |
|  |  |  | R252．R253，R256．R257．R259， |
|  |  |  | R267．R26日，R271，R272，R300． |
|  |  |  | R301，R302，R305，R306，R307． |
|  |  |  | R308，R311，R312，R400，R401． |
|  |  |  | R402．R405．R406．R407．R40日， |
|  |  |  | R411．R412 |
| 103210－1 | 2．2UF 160V RADIAL T／R | 4 | С136．C137．C236．C237 |
| 1033ヨ1－N050R | WIRE． 16 日LK／WHT TAB $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103435－7060日 | SCREW，6－32 $\times .5$ TORX PNHD SEM | 2 | HW27．HW2日 |
| 125106－1 | MACSD 8 AMP 400V TRIAC | 2 | Q131．0231 |
| 125242－1 | CAP，．625ID $\times 1{ }^{\prime \prime}$ VINYL | 1 | 3 |
| 125478－1 | 3．83K0HM 日．50W 1\％2010 T／R | 2 | R142，R242 |
| 125482－1 | ADHESIVE LOCTITE 3E4 OUTPUT | 0 | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 12550日－1 | $10 \cup F$ SQVDC ELECTROLYTIC SMD | 2 | C3． 230 |
| 126317－1 | REL．3RA 24 V SPST PCE W／FAST | 2 | K100，K200 |
| 126日25－1 | SILICONE，CLEAR 302 SYRINGE | 0 | 4 |
| 126929－1 | 1／4＂TRS／XLR COMBO PCB VERT | 2 | J500，J 600 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C1 | 102466－1 | 10UF 250V 20\％RADIAL T／R | 」 $\boldsymbol{F}$ |
| C2 | A11427－104K2 | D． 1 MF 58V 10\％D日05 | F 9＊ |
| C3 | 125508－1 | 1 DUF 50VDC ELEC．TROLYTIC SMD | 18 |
| C4 | C 4477－3 | 470 MF 35V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35V VERT | $G 9$ |
| C6 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H 10＊ |
| C7 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H $9^{*}$ |
| C12 | A）1427－104K2 | 0.1 MF 50V 10\％EB05 | I 9＊ |
| C20 | D 89：7－3 | 8200UF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 8200UF 110 VDC ELECTROLYTIC | 日 9 |
| C 22 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | N 9＊ |
| C24 | A11427－104K2 | 0．1 MF 50V 10\％日BD5 | N 9＊ |
| C25 | A11427－104K2 | 0.1 MF 50V 10\％8005 | 0 9＊ |
| C26 | C 日576－日 | 10日 MF 35V 10\％ELEC | 19 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10 |
| C28 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | J 9＊ |
| C29 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | $1{ }^{\text {® }}$ |
| C30 | 125508－1 | 1 ULF 50VDC ELECTROLYTIC SMD | I 日 |
| C31 | C 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102465－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| C102 | C 6日®2－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 28\％RAD T／R | M 9 |
| C104 | 102438－101k2 | 180PF 20DV $10 \%$ NPO 0日Q5 | M 9＊ |
| C105 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－560K2 | 56PF 20ロV 10\％NPO 0805 | L 9＊＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO 0日05 T／R | L 9＊ |
| c188 | 10243日－820K2 | 日2PF 200V 10\％NPO 0805 | L 10＊ |
| C109 | A11427－103K2 | D．01MF 50V 10\％CHIP 0805 | H 6＊ |
| C110 | A11369－471K2 | 47日PF 50V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | M 7＊ |
| C111 | A11427－103K2 | 0．01MF 50V 10\％CHIP B日05 | N 8＊ |
| C：12 | A11427－123＜2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | O 8＊ |
| C113 | 10246日－1 | 47UF $18 \mathrm{~V} 20 \% \mathrm{NP}$ RAD $T / R$ | N 8 |
| C114 | 10245日－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C115 | A11427－104K2 | D． 1 MF 50V 10\％0805 | N $\mathrm{B}^{*}$ |
| C116 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 270日PF 50V 10\％LHIP 0805 | I 7＊ |
| C118 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | 18 |
| C119 | A11427－472K2 | 4700PF 50V 10\％X7R 0805 | $17^{*}$ |
| C120 | 18243日－101K2 | 100PF 200V 10\％NPO 0日05 | I 7＊ |
| C121 | C10195－1 | 2． 2 MF 50 V 20\％RAD T／R | G 8 |
| C122 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | F 日＊ |
| C123 | ᄃ 9157－6 | 1 Q0UF 16 V 20\％NP ELEC RAD T／R | F 8 |
| C124 | ᄃ10196－1 | 2． 2 MF 50 V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | N 10＊ |
| C127 | A1 1427－104K2 | 0.1 MF 50V 10\％0日05 | N 9＊ |
| C128 | A11427－104K2 | 0．1 MF 50V 10\％0日Q5 | M 10＊ |
| C129 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LDC． |
| C130 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | H 8＊＊ |
| ᄃ131 | A11427－104K2 | 0． 1 MF 50V 10\％D日05 | H 7＊ |
| C132 | A11427－104K2 | 0．1 MF 50V 10\％8日05 | F 7＊ |
| C133 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | F $8^{*}$ |
| C134 | A11369－102」2 | 0.001 LF 58V 5\％NPO MLC 0805 T／ | M ${ }^{*}$ |
| C135 | 102438－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0805 | N 7＊ |
| C136 | 103210－1 | 2．2UF 160 V RADIAL T／R | I 7 |
| C137 | 103210－1 | 2．2UF 160 V FADIAL T／R | 17 |
| C138 | 102438－820K2 | 82PF 200V 10\％NPO 0日05 | M 7＊ |
| C139 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V LHIP 1206 | L 9 |
| C141 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | N 10 |
| C142 | A11369－330J2 | 33PF 50V 5\％NPO MLC 0日05 | M 10 |
| C143 | A11427－103K5 | 0.01 MF 50 V \％$\times 7 \mathrm{R} 1206$ | M ${ }^{\text {＊}}$ |
| C144 | 103191－1 | 0.47 LF Z5L 1210 20\％5DV | G 7＊ |
| C201 | 102465－1 | 47UF 50V $20 \%$ RADIAL T／R | 」 9 |
| C202 | C 6日02－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／A | K 9 |
| C204 | 102438－101K2 | $100 P F 200 V 10 \%$ NPQ 0805 | 」 ＊$^{*}$ |
| C205 | ᄃ1020日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | J 9 |
| c206 | 102438－550k2 | 5EPF 200V 10\％NPO 0日65 | 」 9＊ |
| С207 | A11369－270K2 | 27PF 50V 10\％NPD 0B05 T／R | J 9＊ |
| C20日 | 102438－820K2 | 日2PF 20ロV 10\％NPO 0日05 | 」 10 ＊ |
| C209 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ LHIP 0805 | H ${ }^{*}$ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | K 7 ＊ |
| C211 | A11427－103K2 | 0．01MF 50V 10\％CHIP B日05 | K 7＊ |
| C212 | A：1427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | L 8＊ |
| ᄃ213 | 102468－1 | 47LF 10V 20\％NP RAD T／R | K B |
| C214 | 102488－1 | 47LF 10 V 20\％NP RAD T／R | K 日 |
| C215 | A11427－104K2 | 0．1 MF 50V 10\％2日05 | K 8＊ |
| C216 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 」 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 日a05 | D 1 ＊ |
| C218 | A10434－104JD | D． 1 MF 250 V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 470®PF 50V 10\％$\times 7 \mathrm{R}$ 日B05 | E 1＊ |
| C220 | 102438－101K2 | $100 P F 200 V 10 \%$ NPO 0805 | D $\mathbf{2}^{*}$ |
| C221 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | E 8 |
| C222 | A11427－104K2 | D． 1 MF 50V 10\％ 18805 | E 日＊ |
| ᄃ223 | C 9157－6 | 10DUF 16 V 20\％NP ELEC RAD T／R | F 9 |
| ［224 | ᄃ10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | J 9 |
| C226 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | K 10＊ |
| C227 | A11427－104K2 | 0.1 MF 50V 10\％0805 | K $\mathrm{g}^{*}$ |
| C228 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | 」10＊ |
| C229 | A11427－104K2 | 日． 1 MF 58V 10\％0日05 | 」 ＊$^{\text { }}$ |
| C230 | A11427－104K2 | 0．1 MF 50V 10\％0805 | E $日^{*}$ |
| C231 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | E 7＊ |
| C232 | A11427－104K2 | D． 1 MF 5BV 10\％0日05 | E 7＊ |
| C233 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | D 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C234 | A11359－102」2 | D． 001 LF 50 V 5\％NPO MLC Q日05 T／ | 」 7 ＊ |
| C235 | 10243日－101K2 | 100PF 200V 10\％NPO 0日05 | 」 ${ }^{*}$ |
| C236 | 103210－1 | 2．2UF 1EQV RADIAL T／A | I 1 |
| C237 | 103210－1 | 2．2UF 160 V RADIAL T／R | I 1 |
| C238 | 18243日－日20K2 | B2PF 200V 10\％NPO 0805 | 」7＊ |
| C239 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0日05}$ | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A11369－471K2 | 470PF 50V 10\％NPO QB05 T／R | L 10 |
| C242 | A11369－330」2 | 33PF 50V 5\％NPO MLC 0805 | K 10 |
| C243 | A11427－103K5 | D． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | K 9＊ |
| C244 | 103191－1 | 0．47LF 25U 1210 20\％50V | E 7＊ |
| C500 | A11359－120K2 | 12PF 50V 10\％NPO 0885 T／R | A 2 |
| C50 1 | A11369－120k2 | 12PF 50V 10\％NPO 日B05 T／R | A 2 |
| C502 | A1 1369－120K2 | 12PF 50V 10\％NPO 0B05 T／R | 日 2 |
| C503 | 102467－1 | 22MF 25V 20\％RAD T／R | B 2 |
| C504 | 102438－560K2 | 56PF 200V 10\％NPO D805 | A 2 |
| C505 | A11427－104K2 | 0.1 MF 50 V 10\％0日05 | A 2 |
| C506 | A11427－104K2 | D． 1 MF 50 V 1®\％0日05 | A 2 |
| c509 |  | OPEN | B 2 |
| c600 | A11369－120k2 | 12PF 50V 10\％NPQ B805 T／R | A 2 |
| C601 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 1 |
| C602 | A11369－120k2 | 12PF 50V 10\％NPO DE05 T／R | A 2 |
| C603 | 102457－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C604 | 102438－560K2 | 56PF 20®V 10\％NPO 0日05 | A 2 |
| C605 | A11427－104K2 | 0．1 MF 50V 10\％0805 | A 1 |
| CE06 | A11371－1501 | 15 OHM B． $1 \mathrm{~W} 5 \%$ CHIP D日Q5 | C 3 |
| C607 | A11371－1501 | 15 OHM 0．1W 5\％EHIP 0805 | C 3 |
| C608 | A11371－1501 | 15 OHM 0．1W 5\％LHIP 0日®5 | 日 1 |
| C609 |  | OPEN | 日 2 |
| D 1 | C 2851－1 | $1 \mathrm{N4004}$ SILICON RECT． | G 9 |
| D2 | C 2851－1 | IN40®4 SILICON RECT | G 10 |
| D3 | C 2851－1 | iN4004 SILICON RECT． | G 10 |
| D4 | C 2851－1 | 1 N 4004 SILICON RECT． | G 10 |
| D6 | C 2日51－1 | 1 N4004 SILICON RECT． | J 8 |
| D7 | C 2851－1 | IN4004 SILICON RECT． | 」 B |
| D日 | C 3549－0 | DIODE ZENER，10V， 1 N5240B | 」 日 |
| D9 | C 9283－8 | DIODE． 1 N914／1N414日 SOT－23 SMT | I 9＊ |
| D10 | C 2851－1 | IN4004 SILICON RECT． | I 10 |
| D1 3 | C 9283－0 | DIODE，1N914／1N414B SOT－23 SMT | I $\mathrm{g}^{*}$ |
| D181 | C 92日3－0 | DIODE， $1 \mathrm{NG14/1N4148} \mathrm{SOT-23} \mathrm{SMT}$ | N 9＊ |
| D102 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 3＊ |
| D103 | C 9283－0 | DIODE．1N914／1N414日 SOT－23 SMT | L 9＊ |
| D184 | C 92日3－0 | DIODE． 1 N914／1N414日 5OT－23 SMT | M 9＊ |
| D105 | C 92日3－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | L 9＊ |
| D106 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D107 | C 92日3－0 | DIODE，1NS14／1N414日 SOT－23 SMT | N ${ }^{\text {®＊}}$ |
| D10B | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 日＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST



## INACTIVE

For Reference Use Only

CRDWN INTERNATIUNAL INC. 1710 west mishawaka hoad elghart. indiana 465it phone (219) 284-8ace



## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| :---: | :---: | :---: | :---: |
| 」100 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| 」200 | 102473－1 | SPEAKON， 4 PQLE PCE HOAZ | F 10 |
| 」500 | 126929－1 | 1／4＇TRS／XLR COMED PCE VERT | B 3 |
| 」 502 | 102471－2 | HDR，12POS 2．5MM RT ANG KEYED | C 1 |
| J600 | 126929－1 | 1／4＂TRS／XLA COMEO PCB VERT | 日 1 |
| K108 | 126317－1 | REL，30A 24V 5PST PC日 W／FASTON | G 9 |
| K20日 | 126317－1 | REL，30A $24 V$ SPST PCE W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE，470LH 18\％AXIAL | N 7 |
| L101 | C 3510－2 | CHOKE，470UH 18\％AXIAL | 17 |
| L102 | 102470－1 | INDUCTOR， 2.75 JH IIA RADIAL | H |
| L200 | C 3510－2 | CHOKE．470UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOKE，470LH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR，2．75UH 11A FADIAL | I 1 |
| Q1 | 102479－1 | PWR MJD112 NPN DARL INGTON 100V | H 10 |
| 02 | 102479－1 | PWA MJD112 NPN DARLINGTON 10日V | I 10 |
| Q3 | 102479－1 | PWF MJD112 NPN DARLINGTON 1 日®V | 110 |
| Q100 | C 7448－1 | MMET3904 CHIP NPN | M 9＊ |
| Q181 | C 7448－1 | MMET3904 CHIP NPN | M 9＊ |
| 0102 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N $\mathbf{9}^{*}$ |
| Q103 | 102483－1 | PNP 3QDV 500MA SOT－23 | L 9＊ |
| 0104 | C 3252－5 | 2N3904 40V NPN TRANSISTOA | 16 |
| Q105 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | M ${ }^{*}$ |
| 0187 | 103192－1 | NPN 300V 500MA 50MHZ S0T－223 | M ${ }^{*}$ |
| Q10日 | 102481－1 | NPN 25 V LOW NOISE SOT－23 | N 8＊ |
| 9109 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | N $\mathrm{B}^{*}$ |
| 0110 | 183192－1 | NPN 30ロV 500MA 50MHZ SOT－223 | N 7＊ |
| 0111 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| O120 | 183193－1 | PNP 300V 500MA 50MHZ SOT－223 | $1{ }^{\text {＊}}$ |
| 0129 | C 7448－1 | MMET3904 LHIP NPN | G 9＊ |
| 0131 | 125106－1 | MACSD 8 AMP 400V TRIAC | F 9 |
| 0132 | 102478－1 | TRIAC DRIVER SES GV THRESH | $F 9$ |
| 0133 | 102480－1 | FET．N－CH 25V 50MA SOT－23 | M 9＊ |
| Q200 | C 7448－1 | MMET3904 CHIP NPN | K $9^{*}$ |
| 0201 | C 7448－1 | MMBT3904 CHIP NPN | K 9＊ |
| 0202 | C 9931－4 | MMBT5087LT1 PNP XSISTOR SOT－23 | L $9^{*}$ |
| Q203 | 102483－1 | PNP 30QV 50QMA SOT－23 | 」 $\mathrm{S}^{*}$ |
| Q204 | C 9252－5 | 2N3904 40V NPN TRANS ISTOR | 13 |
| Q205 | 103193－1 | PNP 30DV 500MA 50MHZ 50T－223 | 」 7＊ |
| 0207 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | K 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 020日 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | K $7^{*}$ |
| 0209 | C 9931－4 | MMETS0日7LT1 PNP XSISTOR SOT－23 | K 8＊ |
| Q218 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | 」 2＊ |
| 0211 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | 」 $\mathbf{2 *}^{*}$ |
| Q220 | 103193－1 | PNP 30ДV 500MA 50MHZ SOT－223 | D 2 ＊ |
| 0229 | C 7448－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 125106－1 | MAC9D 日 AMP 400V TRIAC | E 9 |
| 0232 | 10247日－1 | TRIAC DRIVER SBS 日V THRESH | F 8 |
| Q233 | 102480－1 | FET，N－CH 25V 50MA SOT－23 | 」 $5^{*}$ |
| R1 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | 」 B＊ |
| R2 | A11371－2225 | 2． 2 K 1W 5\％EHIP 2512 | 」 $日^{*}$ |
| R3 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | I $\mathrm{B}^{*}$ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I ${ }^{*}$ |
| R5 | A1136日－69811 | 6．9日K OHM 0．10W 1\％CHIP 8日05 | D 8 ＊ |
| R6 | A1138日－93111 | 9．31K 0．1W $1 \%$ CHIP 0805 | D $日^{*}$ |
| R7 | 103195－1 | 0.4 OHM 1W 5\％ 2512 T／R | 」 $\mathrm{B}^{*}$ |
| RB | A11371－1022 | 1K 0．125W 5\％LHIP 1206 | N 10＊ |
| R9 | A1 1368－10021 | 10K 1／10W 1\％LHIP 0ag5 | H 9＊ |
| R10 | A1 1368－20023 | 20K 0．25W 1\％CHIP 1210 | H $\mathbf{S}^{*}$ |
| R11 | A11371－3341 | 330K 0．10W 5\％CHIP B日05 | $1{ }^{\text {¢ }}$ |
| R12 | A11368－68121 | 6日．1K 0．10W 1\％LHIP | I 9＊ |
| R13 | A11371－1011 | 100 OHM 0．10W 5\％LHIP 0805 | I 10＊ |
| R1 4 | A11371－0R21 | 0.2 OHM 0． $10 \mathrm{~W} 5 \%$ LHIP DE05 | I 10＊ |
| R15 | A11371－0R21 | 0.2 OHM 日．10W 5\％EHIP 0805 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | 8．25K 0．1W $1 \%$ CHIP 0805 | F 10＊ |
| R1日 | A1138日－71511 | 7．15K 1／10W 1\％CHIP 0805 | D $8^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | $11^{*}$ |
| R20 | A1136日－57621 | 57．EK 日．1®W 1\％LHIP 0日®5 | I 9＊ |
| R21 | A1136B－12121 | 12.1 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 9＊ |
| R22 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | I $9^{*}$ |
| R23 | A11368－39231 | 392K 日．18W 1\％CHIP D805 | I $9^{*}$ |
| R24 | A1136日－57621 | 57．6K 0．10W 1\％CHIP 0805 | $19^{*}$ |
| R25 | A1136日－10031 | $100 K 0.1$ W 1\％CHIP 0日05 | N 9＊ |
| R26 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | A 9＊ |
| R27 | A11368－20021 | 20K 0．10W 1\％CHIP 0日®5 | L 9＊ |
| R28 | A11371－7511 | 750 OHM D．10W 5\％CHIP | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| R30 | A1136日－10031 | 100K 0．1W 1\％CHIP 0805 | I $8^{*}$ |
| R31 | A1136日－10031 | 100K D．1W $1 \%$ CHIP 0805 | 」 8＊ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 18 |
| R33 | A11371－0R21 | 0． 2 OHM 0．10W 5\％LHIP 0805 | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 18 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | M 10＊ |
| R102 | A1136B－39231 | 392K 0．1BW 1\％CHIP 0805 | N 9＊ |
| A103 | A1136日－49901 | 499 OHM 0．10W 1\％CHIP 0805 | N 9＊ |
| R104 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | N 9＊ |
| R105 | A11371－6814 | 680 OHM D．50W 5\％EHIP | 」 1＊ |
| R106 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ EHIP 0805 | M 9＊ |
| R107 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日®S | L 10＊ |
| Rt08 | A1 1368－10021 | 10K 1／10W 1\％CHIP D日05 | ᄂ 10＊ |
| R109 | A11368－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 120 B | M 9＊ |
| R110 | A11368－10011 | 1K E． 10 W 1\％CHIP 0日05 | L 9＊ |
| R111 | A11368－10021 | 10K 1／10W 1\％CHIP 8B05 | L 9＊ |
| R1 12 | A10265－19121 | 19．1K 0．25W 1\％MF | L 9 |
| R113 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | L 10＊ |
| R114 | A11368－82511 | 日． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | L 10＊ |
| R115 | A1136日－68121 | 6日．1K 0．10W 1\％CHIP | L 10＊ |
| R116 | A11368－22601 | 226 OHM 0．10W 1\％LHIP 0日05 | M ${ }^{*}$ |
| R117 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | M 9＊ |
| R118 | A11368－68111 | 6．日1K OHM 0．10W 1\％CHIP 0805 | M 10 |
| R119 | A11371－3333 | 33 K 0.25 W 5\％CHIP 1210 | M $9^{*}$ |
| R120 | A11388－90921 | 90．9K 0．10W $1 \%$ CHIP 日日05 | M 9＊ |
| R121 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | M 10 |
| R122 | A11368－15831 | 15BK 0．10W 1\％CHIP 0805 | N 9＊ |
| R123 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0日85 | M 9＊ |
| R124 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | M 9＊ |
| R125 | A1 1368－10031 | 100K 0．1W $1 \%$ CHIP 0日05 | N 9＊ |
| R126 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0日05 | M 9＊ |
| R127 | A11371－6821 | 6．日K 0．10W 5\％CHIP 0805 | N 9＊ |
| R12日 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | J 1＊ |
| R129 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | 0 8＊ |
| R131 |  | OPEN | $08^{*}$ |
| F132 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H $\mathrm{E}^{*}$ |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％LHIP | H 6＊ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％LHIP | M 7＊ |
| R136 | A11371－8201 | 82 OHM D．10W 5\％LHIP | M ${ }^{*}$ |
| R137 | A11368－15002 | 150 OHM 0．125W 1\％CHIP | N ${ }^{*}$ |
| R138 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N $0^{*}$ |
| R139 | A1136日－13703 | 137 OHM 0．25W 1\％EHIP | N 8＊ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $\mathrm{B}^{*}$ |
| R141 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | O ${ }^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

CROWN INTERNATIDNAL INC．



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESERIPTION | MAP LOE． |
| R142 | 125478－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} 1 \% 2010$ T／R | － $8^{*}$ |
| R143 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $\mathrm{G}^{*}$ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| R145 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | N ${ }^{*}$ |
| R147 | A11371－1011 | $10 \square$ OHM 0．10W 5\％CHIP 0日05 | N 7＊ |
| R14日 | A11371－1日11 | 1日日 OHM 0．10W 5\％CHIP | M 7＊ |
| R150 | A11371－5R63 | 5.6 0．25W 5\％LHIP | N 6＊ |
| R152 | 103199－1 | 0． 4 OHM 1W 5\％2512 T／R | K 6＊ |
| A153 | 103199－1 | 0.4 OHM 1 W 5\％ 2512 T／R | K 5＊ |
| R156 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | M 6＊ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 5＊ |
| R158 | A10266－2R74 | 2.7 OHM 2W 5\％CF | I 8 |
| R159 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | D $6^{*}$ |
| R160 | A11371－1501 | 15 OHM 0．10W 5\％LHIP | I $7 *$ |
| R151 | A11371－1331 | 13 K OHM D．10W 5\％CHIP 0805 | H 7＊ |
| R162 | A11371－4701 | 47 OHM D．18W 5\％CHIP | H 7＊ |
| R163 | A11371－1B11 | 180 OHM 0．10W 5\％CHIP | I 7＊ |
| R165 | A11371－5RE3 | 5．${ }^{\text {® 0．} 25 W 5 \% ~ L H I P ~}$ | $15^{*}$ |
| R167 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R168 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G $6^{*}$ |
| R172 | 103199－1 | 0.4 OHM IW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H $6^{*}$ |
| R174 | A1136日－60432 | 604K OHM D． $125 \mathrm{~W} 1 \%$ CHIP 1206 | G 8＊ |
| R175 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP D日05 | G $8^{*}$ |
| R176 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | $6 日^{*}$ |
| R177 | A1136日－10021 | 10K 1／10W 1\％CHIP 2日05 | H $8^{*}$ |
| R178 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0805 | N 9＊ |
| R179 | A1136日－10031 | 100K 0．1W $1 \%$ LHIP 0日05 | F 7＊ |
| R180 | A1136日－39231 | 392K D．10W 1\％CHIP 0805 | G $8^{*}$ |
| F181 | A11371－6日14 | 580 OHM 0．50W 5\％CHIP | 」1＊ |
| R182 | A1136日－18021 | $10 \mathrm{~K} 1 / 1 \mathrm{CW} 1 \%$ CHIP 0805 | F 8＊ |
| F183 | A1136日－10031 | 100K 0．1W $1 \%$ LHIP 0805 | F $\mathrm{B}^{*}$ |
| P184 | A1136日－20023 | 20K 0．25w $1 \%$ CHIP 1210 | F 9＊ |
| R185 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | G $\mathrm{B}^{*}$ |
| R186 | A1 136日－10031 | 100K 8．1W 1\％LHIP 0805 | N 10＊ |
| F187 | A1 136日－15831 | 158K 0．10W 1\％CHIP D日E5 | M 10＊ |
| R188 | A11358－15831 | 158K 0．10W 1\％CHIP 0805 | N 10＊ |
| R189 | A11368－10031 | 100K 0．1W 1\％EHIP 日日05 | M 10＊ |
| R190 | A113E日－57621 | 57．EK $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 6＊ |
| R191 | A11368－22601 | 226 OHM 0．10W 1\％CHIP 0日05 | N 6＊ |
| R192 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1206 | L ®＊$^{*}$ |
| R193 | A1135日－10021 | 10K 1／10W 1\％CHIP 日日05 | N $9^{*}$ |
| R194 | A11371－8201 | 82 OHM B．10W 5\％CHIP | M ${ }^{*}$ |
| R195 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | M ${ }^{*}$ |
| R196 | A1136日－10021 | 10K 1／10W 1\％CHIP D日05 | M 9＊ |
| R197 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | M 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R247 | A11371－1011 | 100 OHM 0．10W 5\％EHIP 0805 | 」 $\mathbf{2}^{*}$ |
| R24B | A11371－1日11 | 180 OHM 0．10W 5\％CHIP | K 2＊ |
| R250 | A11371－5R63 | 5.6 Q．25W 5\％CHIP | 」 2＊ |
| R252 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512$ T／R | K 4＊$^{*}$ |
| R253 | 103195－1 | D． 4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R256 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 4＊ |
| R257 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 103193－1 | 0.4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | D 1＊ |
| R261 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | E 2＊ |
| R262 | A11371－4701 | 47 OHM 日．10W 5\％LHIP | E 2＊ |
| R263 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | E $2^{*}$ |
| R265 | A11371－5R63 | 5.6 0．25W 5\％CHIP | E 2＊$^{*}$ |
| R267 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | E $4 *$ |
| R26日 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F $3^{*}$ |
| R271 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 4＊ |
| R272 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H 3＊ |
| R274 | A11368－60432 | 504K OHM 0．125W 1\％CHIP 1206 | E $8^{*}$ |
| R275 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日05 | E $8^{*}$ |
| R276 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | E 8＊ |
| R277 | A11368－10821 | 10K 1／10W 1\％CHIP D日Q5 | E 8＊ |
| R278 | A11368－90921 | 90．9K 0．10W 1\％CHIP E8B5 | L 9＊ |
| R279 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | E 7＊ |
| R2日0 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | E 日＊ |
| R281 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | M 1＊ |
| R2日2 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | D 8 ＊ |
| R2日3 | A11368－10031 | 100K ロ．1W 1\％LHIP D日05 | E $日^{*}$ |
| R284 | A1 1368－20023 | 20K $\triangle .25 W 1 \%$ CHIP 1210 | F 9＊ |
| R285 | A11368－10021 | 10K 1／10W $1 \%$ CHIP 0日05 | F $\mathrm{日}^{*}$ |
| R2日6 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | L 10＊ |
| R287 | A11368－15831 | 158K 0．10W 1\％CHIP 0805 | K 10＊ |
| R288 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0日05 | K 10＊ |
| R290 | A1136日－57621 | 57．EK 日．10W 1\％CHIP 0E05 | N 3＊ |
| R231 | A1136日－22601 | 226 OHM ©．10W 1\％EHIP 4805 | N 3＊ |
| R292 | A1136日－60432 | 604K OHM D． $125 \mathrm{~W} 1 \%$ CHIP 1206 | 」 －$^{*}$ |
| R293 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | K 9＊ |
| R294 | A11371－8201 | 日2 OHM D．10W 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | 日20 OHM D．10W 5\％CHIP | 」 7＊ |
| R296 | A1135日－10021 | 10K 1／10W 1\％CHIP 0805 | K 9＊ |
| R297 | A1135B－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日05 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－0RD2 | 0．0 OHM JUMPER LHIP 1206 | K $日^{*}$ |
| R300 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | D 6＊ |
| R301 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | 」 $\mathrm{E}^{*}$ |
| R302 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R305 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M $\mathrm{E}^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R306 | 103199－1 | 0．4 DHM 1W 5\％ 2512 T／R | N 5＊ |
| R307 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E 6＊$^{*}$ |
| F30日 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F $\mathrm{E}^{*}$ |
| R311 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G $日^{*}$ |
| R312 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | I 6 ＊ |
| R313 | A1136日－10021 | 10K 1／10W 1\％CHIP EB05 | G 7＊ |
| R314 | A11371－3341 | 339 K D．10W 5\％LHIP DBE5 | ［ 7＊ |
| R315 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | H 7＊ |
| R316 | A1135日－10011 | 1K 0．10W 1\％CHIP 0日05 | M 10＊ |
| R317 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | N $\theta$ |
| R318 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | N 白 |
| R319 |  | QPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ．25W 5\％ 1210 SMT T／R | L 9 |
| R323 | A11371－0R02 | 0.0 OHM JUMPER CHIP 1206 | G 8 |
| R400 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R401 | 103195－1 | 0.4 OHM 1W 5\％ 2512 T／R | 」 4 ＊ |
| 月402 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | K ${ }^{*}$ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M $\mathbf{4}^{*}$ |
| R406 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R407 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| F40日 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | F 3＊ |
| R411 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | H 4＊ |
| R412 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | I 3＊ |
| R4 13 | A11368－10021 | 10K 1／10W 1\％EHIP 0日0s | E 7＊ |
| R4 14 | A11371－334i | 330K 0．10W 5\％CHIP DB05 | E 7＊ |
| R415 | A11358－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | E 7＊ |
| R416 | A1136B－10011 | 1K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R417 | A11371－3934 | 39K OHM 0．50W 5\％LHIP 1210 | K 7 |
| R418 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 日 |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5．6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 10日 OHM ．25W 5\％121日 SMT T／R | 」 9 |
| R423 | A11371－0R02 | D． 0 OHM JUMPER LHIP 1206 | F |
| R50］ | A113日B－10021 | 10K 1／10W 1\％CHIP 0日05 | A 3 |
| R501 | A11368－10021 | 10K 1／10W 1\％LHIP 0日05 | A 2 |
| F502 | A11368－10021 | 10K 1／10W 1\％CHIP 0日D5 | B 2 |
| R503 | A11368－10021 | 10K 1／1日W 1\％CHIP 0日05 | B 2 |
| R504 | A11368－10021 | 10K 1／10W 1\％CHIP 0日B5 | A 2 |
| R506 | A11368－10021 | 10K 1／10W 1\％CHIP D日05 | A 2 |
| R508 |  | OPEN | C 2 |
| RE日 | A11368－10021 | 10K 1／10W 1\％EHIP 0日05 | A 1 |
| RED 1 | A1136日－10021 | 10K 1／10W 1\％CHIP D日05 | A 1 |
| R602 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R603 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| RE04 | A11368－10021 | 10K 1／10W 1\％EHIP 0日05 | A 1 |
| R606 | A11368－10221 | 10K 1／10W 1\％CHIP 0日05 | 日 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |  |
| :---: | :---: | :---: | :---: | :---: |
| R607 | A11371－8205 | 82 OHM 1 W 5\％CHIP 2512 |  |  |
| REDB |  | OPEN | C |  |
| 51 | 102488－1 | SPDT HOAIZ SLIDE | L 10 |  |
| 52 | ᄃ 7325－1 | 2P 2 POS．PC SLIDE SW． | L 10 |  |
| T日1 | 102475－1 | BLOCK． 5 POS TEAMINAL | A 2 |  |
| TP38 | ᄃ 9896－9 | TEST POINT LOOP |  |  |
| TP39 | ᄃ 9896－9 | TEST POINT LOOP | N 7 |  |
| U1 | ᄃ 5095－2 | POS． 15 VOLT REG． | H 10 |  |
| U1 $\times$ | C 9918－1 | TO220 VERT ELIP－ON HEATSINK | H 10 |  |
| ப2 | C 5096－0 | NEG． 15 VOLT REG． |  |  |
| $\mathrm{U} 2 \times$ | ᄃ 9918－1 | TO220 VERT ELIP－ON HEATSINK | H 9 |  |
| ப3 | 1024日6－1 | OPTO 日JT NPN SOIC－日 CTR $-100 \%$ | N 10 |  |
| ப4 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | 19 |  |
| US | C 8262－5 | ML33078D DUAL LO NOISE OP AMP | N 9 |  |
| ப100 | 102723－2 | OPTO EELL ON－50D OHM | M 9 |  |
| ப101 | C 9012－3 | MC33079D QLAD LO NOISE OP AMP | M 10 |  |
| ப102 | ᄃ 9038－8 | COMPARATOR．QUAD LM339D SO－14 | N 9 |  |
| U104 | ᄃ 9038－8 | COMPARATOR，QUAD LM339D SD－14 | G 7 |  |
| ப105 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | F 7 |  |
| U108 | H42902－9 | ASM，THERMAL SENSE | N 6 |  |
| ப200 | 102723－2 | OPTO CELL ON－500 OHM | K 9 |  |
| ப201 | ᄃ 9012－3 | MC33079D QUAD LO NOISE OP AMP | 」 10 |  |
| ப202 | C 9038－8 | COMPARATOR，QUAD LM339D SD－14 | K 9 |  |
| ப204 | C 9038－8 | COMPARATOR．QLAD LM339D S0－14 | E 7 |  |
| ப205 | C 日262－5 | MC3307日D DUAL LO NOISE OP AMP | E 7 |  |
| ப286 | H42902－9 | ASM．THERMAL SENSE | N 3 |  |
| ப500 | C 9812－3 | MC33079D OLAD LO NOISE OP AMP | A 2 |  |
| WP 1 | A11378－AD50ப | WIRE， 16 FED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | 103331－N050R | WIRE， 16 ELK／WHT TAE $\times 5 \times T$ | A 9 |  |
| WP3 | A11379－C050U | WIRE． 16 BLU FAST $\times 5 \times$ TERM | A 9 |  |
| WP4 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D 7 |  |
| WP5 | 101031－1 | 250 FASTON，AUTO INSERTA日LE | D 4 |  |
| WP6 | A12125－3140K | WIRE， 22 WHT 3／16×14 $\times$ FAST | J 8 |  |
| WP7 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D B |  |
| Z1 |  | OPEN | E 9 |  |
| 1 | 102138－9 | PW日，CE1000／CE200® MAIN／INPU | SEE COMP MAP |  |
| 2 | 101016－1 | L日L．BARCODE．． | SEE COMP MAP |  |
| 3 | 125242－1 | CAP，． $625 \mathrm{ID} \times 1^{*}$ VINYL． | SEE CDMP MAP |  |
| 4 | 128日25－1 | SILICONE，CLEAR 3OZ SYRINGE | SEE COMP MAP |  |
| 5 | 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | SEE COMP MAP |  |
| 6 | 1254日3－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | SEE COMP MAP |  |
| 7 | 1031日0－1 | BUMPER，0．4＂TALL ELK W／ADH | SEE COMP MAP |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## INACTIVE

For Reference Use Only


## Component Map

for use with
Main PWA \#102139-9



INACTIVE
For Reference Use Only


| E．C． | ZONE | REV． | DESCRIPTION | DATE | BY | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | CHK | CM | EE | PE |
|  |  | A | INITIAL RELEASE FOR PRODULTION． | 03－26－99 | KLW | 品w |  |  | 8 |
|  |  |  |  |  |  |  |  |  |  |

## NOTES：

1．SCHEMATIC DRAWING NUMBER 102141.
2．PWG PART NUMBER 19213日－9．
3．THE PWA SHALL MEET THE IPC－A－618＿CLASS 2 STANDARDS．
4．ALL LEADS SHALL EE TAIMMED TO 0．893＂DR LESS．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP，
6．COMPONENTS THAT HAVE（＊）AFTER THEIR MAP LOCATION ARE MOUNTED ON THE EOTTOM $5 I D E$ OF THE PRINTED CIRCUIT BOARD．
7．REMOVE SOLDER OR PREVENT SOLDER FAOM ACCUMLLATING IN HOLES．
B．THE VENT HDLE ON TOP DF THE RELAYS KI日D AND KZ日G MUST BE OPENED after the cleaning process，gy either removing the sealing tape OR EIJTTING OFF THE CIACULAR TAB WITH AN＂EXACTO＂KNIFE OR SIMULAR ［UTTING TDOL．WARNING．THIS STEP MUST BE DONE AFTER THE CLEANING PROLESS NDT EEFORE！！！WATER OR CLEANING SOLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY．
9．CONNECT THE WIRES THAT COME FROM O123 AND 0223 TO WP4 AND WPS RESPECTIVELY．
18．THE FWA PART NUMBER FOR THIS MODULE SHALL BE MARKED DN THE TOP SIDE QF THE P．C．BOARD AND SHALL BE PERMANENT． USE A MARKER AND MARK OUT THE OLD PWA NUMEERS ON THE BOTTOM．
19．INSTALLATION OF UIEG AND U2EE IS AS FOLLOWS：
iAA．REMOVE MIDDLE SLEEVE FROM TRANSISTOR H42902－9
t1日．日END TRANSISTOR AT 90 DEG．FLAT SIDE DOWN
iIC．PLACE TRANSISTOR INTO THE PWE AS SHOWN ON
THE COMPONENT MAP DETAIL $B$.
11D．MIX OUTPUT EPDXY AND ACCELERATOR TOGETHER．
APPLY THE MIXTURE TO THE TRANSISTOR AND HEATSINK．
THE MIXTURE MUST FILL THE HEATSINK HOLE AND THE
LEADS DF THE DEVICE．ESPECIALLY THE CENTER LEAD．
（NOTE：NO VISIBLE AIR GAPS ARDUND THE TRANSISTOR
AND THE TRANSISTOR LEADS CANNDT TOLCH THE HEATSINK）
11E．HOLD THE TRANSISTOR AGAINST THE HEATSINK LNTIL EPOXY SETS－UP
12．TOROUE 5－32 HEX NUTS（CPN A11856－1）AS FOLLOWS：
12A．PRE－WAVE TOROUE OF 4－6 INCH LES．
12B．POST－WAVE AND WHEN ASSEMBLY HAS CODLED DOWN TD HANDLING temperature tohoue of 13－15 INCH LBS．
13．INSTALL J3 CONNECTOR AS SHDWN DN COMPDNENT MAP
14．LAEEL INPUT PWA WITH CPN 126日白3－2 ON COMPONENT SIDE．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | 8 | HW9，HW10，HW1 1，HW1 2，HW13，HW1 4. |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K 0．25W 1\％MF | 2 | R112．R212 |
| A10265－2R74 | 2．7 OHM 2W 5\％CF | 1 | R15日 |
| A10434－104JD | D． 1 MF 250V 5\％MTL POLY | 2 | C118．C218 |
| A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | 8 | HW1 7．HW1 8，HW1 9．HW20，HW2 1. |
|  |  |  | HW22，HW23．HW2 4 |
| A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | 8 | R101．R186．R110．R201．R206， |
|  |  |  | R210，R315，R415 |
| A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | 35 | R9，R104，R107，R108，R111，R121． |
|  |  |  | R176．R177，R182，R1日5，R193， |
|  |  |  | R196．R204，R211．R221．R276， |
|  |  |  | R277．R282．R2日5．R293．R295． |
|  |  |  | R313，R413．R500，R501，R502， |
|  |  |  | R503，R504，R506，R500，RE01． |
|  |  |  | R602．R603．R604，R606 |
| A1136日－10031 | 100K D．1W 1\％LHIP 0日05 | 15 | R25．R30．R31．R123．R125． 1179. |
|  |  |  | R1日3，R186．R1日9，R223．R225， |
|  |  |  | R279，R283，R286．R289 |
| A1136日－12121 | 12.1 K DHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R21 |
| A1136日－13703 | 137 OHM 0．25W 1\％CHIP | 2 | R139，R239 |
| A1136日－15002 | 150 OHM 0．125W 1\％CHIP | 2 | R137．R237 |
| A1136日－15831 | 158K 日．10W 1\％［HIP 0805 | 日 | R122．R124．R187．R1日8，R222． |
|  |  |  | R224，R287，R2日8 |
| A1136日－19122 | $1 \mathrm{~g} .1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | 2 | R109，R209 |
| A1136日－20021 | 20K 0．10W 1\％CHIP 0805 | 1 | R27 |
| A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10，R1日4，R2日4 |
| A）1368－22601 | 226 OHM 0．10W 1\％CHIP 0805 | 4 | R116，R191，R216，R291 |
| A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 6 | R22，R23．R102．R1日0，R202．R2日0 |
| A1 1 368－49901 | 499 DHM 0．10W 1\％CHIP 0日05 | 2 | R103．R203 |
| A1 1388－49921 | 49．9K 0．1W 1\％CHIP 0日05 | 2 | R126，R226 |
| A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | 日 | R1：3，R175，R197，R213，R275， |
|  |  |  | R297，R315．R415 |
| A11368－57621 | 57． 6 K 日． $10 \mathrm{~W} 1 \% \mathrm{CHIF} 0805$ | 4 | R20．R24．R190，R290 |
| A11368－60432 | 604K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | 4 | R174，R192，R274，R292 |
| A11368－6日111 | 5．81K OHM 0．10W $1 \%$ CHIP 0805 | 2 | R198．R21日 |
| A11368－68121 | 68．1K D．10W 1\％CHIP | 3 | R12．R115．R215 |
| A11388－69811 | 6． 98 K OHM 0．10W 1\％CHIP 0日05 | 1 | R5 |
| A1138日－71511 | 7．15K 1／10W 1\％CHIP 0805 | 1 | R18 |
| A1138日－82511 | 日．25K 0．1W 1\％CHIP 0885 | 3 | R17．R114．R214 |
| A1 138日－90321 | 90．9K 0．10W 1\％CHIP 0日05 | 4 | R120，R178，R220，R278 |
| A11368－93111 | 9．31K 0．1W 1\％CHIP 0805 | 1 | R6 |
| A11369－102J2 | D．UQIUF 50V 5\％NPO MLC DB05 | 2 | C134．C234 |
| A11369－120K2 | 12PF 50V 10\％NPO 8805 T／R | 6 |  |
| A11369－270k2 | 27PF 50V 10\％NPD ®日05 T／R | 2 | C107． 2207 |
| A11369－330」2 | 33PF 50V 5\％NPO MLC 0日05 | 2 | C142．c242 |
| A11389－471K2 | 470PF 50V 10\％NPO 2805 T／R | 4 | C110．C141．ᄃ210．C241 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| CROWN <br> $\theta$ WEST MISHAWAKA MOAD |  |  | INTERNATIONAL <br> ELKHART，INDIANA 48517 <br> PHONE |  | INC． <br> （219）294－8060 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DRAMN | KLW | 13－26－99 | DWE．NO． | SHEET | 2 |  | RE |
| PROJ． | MD390D9 |  |  | － |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－0RE2 | 0.0 OHM JUMPER CHIP 1206 | 4 | R199．R299，R323．R423 |
| A11371－8A21 | 0.2 OHM 0．18W 5\％CHIP 0805 | 3 | R14．R15，R33 |
| A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | 3 | R13．R147，R247 |
| A11371－1013 | 100 OHM ．25W 5\％121日 SMT T／R | 2 | R322．8422 |
| A11371－1022 | 1K 0．125W 5\％CHIP 1206 | 1 | R日 |
| A11371－1213 | 120 DHM 0．25W 5\％CHIP | 8 | R138．R144，R145，R23日，R244，R245 |
| A11371－1331 | 13K OHM D．18W 5\％CHIP 0805 | 4 | R146．R161，R246，R261 |
| A11371－1501 | 15 OHM D．19W 5\％EHIP | 5 | C606．С607，С608，R150，R260 |
| A11371－1811 | 1日0 OHM D． $10 \mathrm{~W} 5 \%$ CHIP | 4 | R148，R163，R24B，R263 |
| A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | 2 | R132．R232 |
| A11371－2225 | 2．2K 1 W $5 \%$ CHIP 2512 | 1 | R2 |
|  |  |  |  |
| A11371－3313 | 330 QHM 0．25W 5\％CHIP | 2 | R4，R19 |
| A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 8 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP 0805 | 7 | R3．R11．R26．R117．R217．R314． |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16．R135，R235 |
| A11371－3934 | 39K OHM D．50W 5\％CHIP 1218 | 4 | R317，R31日，R417，R418 |
| A11371－4701 | 47 OHM 0．10W 5\％LHIP | 2 | R162，R262 |
| A11371－5615 | 56日 ロHM 1W 5\％ 2512 T／R | 2 | R32．R34 |
| A11371－5R63 | 5.6 0．25W 5\％CHIP | 4 | R150，R165．R250，R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6814 | 6日0 OHM 0．50W 5\％CHIP | 6 | R105，R12日，R181，R205，R228，R281 |
| A11371－6821 | 6．8K 0．10W 5\％CHIP 0805 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0.10 W 5\％CHIP | 3 | R29．R133．R233 |
| A）1371－8201 | 日2 OHM 0．10W 5\％CHIP | 4 | R136．R194，R236，R294 |
| A11371－8205 | 日2 OHM 1W 5\％CHIP 2512 | 1 | RE07 |
| A11371－8211 | 日20 OHM 0．10W 5\％CHIP | 6 | R129，R141，R195，R229，R241，R295 |
| A11378－A050U | WIRE． 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | 0.01 MF 50 V 10\％CHIP 0805 | 4 | ［109，С111．c209，C211 |
| A11427－103K5 | D． 01 MF 50 V 5\％×7R 1206 | 2 | C143，C243 |
| A11427－104K2 | 0.1 MF 50V 10\％0805 | 33 | C2．C6，C7，C12．C24，C25．C28，C29． |
|  |  |  | C115，ट122．ट126．С127．C128． |
|  |  |  | ᄃ129．ᄃ130．ट131．ᄃ132．ट133， |
|  |  |  | ᄃ139，С215，C222，C226，C227， |
|  |  |  | C228．С229，С230，C231．С232， |
|  |  |  | C233，С239， 5505.5506 .5605 |
| A11427－123K2 | ®．012 MF 50V 10\％LHIP | 2 | C112．C212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | 2 | C117．C217 |
| A11427－472K2 | 470日PF 50V 10\％×7A 日日®5 | 4 | C116．C119，C216．c219 |
| C 2851－1 | 1 N4004 SILICON RECT． | 7 | D1．D2．D3．D4．D6．D7．D10 |
| C 3510－2 | CHOKE，470UH 10\％AXIAL | 4 | L100，L101，L200，L201 |
| C 3549－0 | DIODE ZENER， $10 \mathrm{~V}, 1 \mathrm{NS} 240 \mathrm{~B}$ | 1 | DB |
| C 3579－5 | 3כLF 50V $20 \%$ VERT ELECT | 1 | C31 |
| C 4477 －3 | 470 MF 35V VERT | 2 | C4．C5 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－6 | 2．2 MF 50V VERT | 1 | C27 |
| C 6802－0 | 47 MF 50 V AX CERM | 2 | C102．c202 |
| C 7091－9 | 0.33 MF 50 V CHIP 1206 | 3 | C22．C140．c240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 744日－1 | MMET3984 CHIP NPN | 6 | Q100，0181，प129，Q200，Q201．0229 |
| C 日262－5 | MC33979D DUAL LO NOISE OP AM | 4 | U4，U5． 4105.4205 |
| C 8575－8 | $180 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9812－3 | MC33079D QUAD LO NOISE OP AM | 3 | U101． 1201.4500 |
| C 9038－8 | COMPARATOR，QUAD LM339D S0－1 | 4 | U102， $1104, \mathrm{U} 202 . \mathrm{U} 204$ |
| C 9157－6 | 10DUF 16 V 20\％NP ELEC MAD T／ | 2 | C123． 2223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | Q104，Q204 |
| C 92日3－6 | DIUDE，1N914／1N414日 SOT－23 S | 56 | D9，D13．D101，D102．D103，D104． |
|  |  |  | D105，D106，D107，D108，D109， |
|  |  |  | D110，D111．D112．D113．D116． |
|  |  |  | D117．D11日．D119．D12日，D121， |
|  |  |  | D122，D123，D124，D125，D126， |
|  |  |  | D127，D12日，D129．D130，D201， |
|  |  |  | D202．D203，D204．D205．D206． |
|  |  |  | D207．D20日，D209，D210．D211． |
|  |  |  | D212．D213．D216．D217．D21日． |
|  |  |  | D221，D222，D223，D224，D225， |
|  |  |  | D226，D227，D22日，D229，D230 |
| C 9896－9 | TEST POINT LOQP | 2 | TP3B，TP39 |
| C 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | ப1 $\times$ ，U2X |
| C 9931－4 | MMBT5087LT1 PNP XSISTOA SOT－ | 6 | 0102，Q109．0111．0202．0299．0211 |
| C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD}$ T／R | 4 | C121．c124．c221．c224 |
| C1020日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105．c205 |
| C10422－1 | DIODE．3A 400V 1N5484 AXIAL | 4 | D114，D115．D214，D215 |
| C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134．R234 |
| D 8917－3 | 8200UF 119 VDC ELECTROLYTIC | 2 | C20，C21 |
| H42902－9 | ASM，THERMAL SENSE | 2 | U106． 1206 |
|  |  |  |  |
| 101016－1 | L日L，BARCODE， | 1 | 2 |
| 101031－1 | 250 FASTON，ALTO INSERTABLE | 3 | WP 4，WP5，WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J2 |
| 101993－1 | JACK．GP4 COND MODULAR R／A | 1 | 15 |
| 10213日－9 | PWB，CE10日ロ／CE200ロ MAIN／INPU | 1 | 1 |
| 10243日－101K2 | $100 P F 200 V 10 \%$ NPO 0805 | 6 | C104．c120．c135．c204．C220，C235 |
| 10243日－560K2 | 56PF 200V 18\％NFO घ日05 | 4 | C106．C206．C504．C604 |
| 102438－820K2 | 日2PF 200V 10\％NPO 0日05 | 4 | C10日，С138．c288，ट23日 |
| 102465－1 | 47UF 50V 20\％RADIAL T／R | 2 | C101．c201 |
| 102466－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102467－1 | 22MF 25V 20\％RAD T／R | 4 | C103．c203． 5503.5603 |
| 102468－1 | 47 LF 10V 20\％NP RAD T／R | 4 | C113．C114．C213．C214 |
| 102470－1 | INDUCTOR，2．75LH 11A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR， 12 POS 2.5 MM RT ANG KEYE | 1 | 1502 |
| 102472－3 | HDR，16POS ． 100 CTR SGL ROW | 1 | J 3 |

## INACTIVE

For Reference Use Only


PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| 102473－1 | SPEAKON， 4 POLE PCB HORZ | 2 | J100．J200 |
| 102475－1 | 日LDCK． 5 POS TERMINAL | 1 | T日1 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1，E101．E201 |
| 102477－1 | LED，SMT R／A RED | 4 | E100．E102，E200，E202 |
| 10247日－1 | TRIAC DRIVER S日S 日V THRESH | 2 | Q132．0232 |
| 102479－1 | PWR MJD112 NPN DARLINGTON 10 | 3 | Q1． 42.03 |
| 1024日0－1 | FET，N－CH 25V S0MA SOT－23 | 2 | 0133.0233 |
| 1924日1－1 | NPN 25V LOW NOISE SOT－23 | 2 | 9108．0208 |
| 102483－1 | PNP 30QV SUQMA SOT－23 | 2 | 0103.0203 |
| 102488－1 | OPTO 日JT NPN SOIC－8 CTR $=180$ | 1 | 13 |
| 102488－1 | SPDT HORIZ SLIDE | 1 | S 1 |
| 102569－3 | HS ASM，T1 ISOLATED CH1． | 1 | H53 |
| 102570－3 | HS ASM，T1 ISOLATED CH2，， | 1 | HS4 |
| 102571－3 | HS ASM．T1 NON－ISOLATED CH1， | 1 | HS 1 |
| 102572－3 | HS ASM．T1 NON－ISOLATED CH2． | 1 | H52 |
| 102579－1 | STAND． $1 / 4$ RD SWAGE AL | 2 | HW25．HW2 |
| 102595－3 | POT．5K LIN 21 DNT 12MM HORI | 2 | R100．R200 |
| 102608－1 | SPACER， $5 \times 187$ LONG ALLMINUM | B | HW1，HW2，HW3，HW4，HW5，HW6，HW7， |
|  |  |  | HW日 |
| 102723－2 | OPTO CELL ON＝500 DHM | 2 | U100． 4200 |
| 1031日0－1 | 日UMPER，Ø．4＂TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 0．47UF Z5U 1210 20\％50V | 2 | C144．C244 |
| 103192－1 | NPN 30QV 500MA 50MHZ SOT－223 | 4 | Q107．प110．0207．Q210 |
| 103193－1 | PNP 30QV 500MA 50MHZ SOT－223 | 4 | Q105．0120，0205， 0220 |
| 103199－1 | 0.4 OHM iW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 3日 | R1，R7，R152，R153，R156，R157． |
|  |  |  | R159．R167，R168．R171，R172． |
|  |  |  | R252．R253，R256，R257，R259， |
|  |  |  | R267，R26日，R271，R272，R300． |
|  |  |  | R301，R302，R305，R306，R307． |
|  |  |  | R308，R311，R312，R400，R401． |
|  |  |  | R402，R405，R406，R407，R408． |
|  |  |  | R411．R412 |
| 10321日－1 | 2．2UF 160 V RADIAL T／R | 4 | C13E，С137．C23E，C237 |
| 103331－N050R | WIRE． 16 日LK／WHT TAB $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103435－7050日 | SCREW，Б－32 $\times .5$ TORX PNHD SEM | 2 | HW27．HW2日 |
| 125106－1 | MACSD 日 AMP 40＠V TRIAC | 2 | 0131.0231 |
| 125242－1 | CAP．．625ID $\times 1{ }^{\prime \prime}$ VINYL | 1 | 3 |
| 12547日－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} \mathrm{1} \mathrm{\%} \mathrm{2010} \mathrm{T/R}$ | 2 | R142，R242 |
| 1254日2－1 | ADHESIVE LOCTITE 384 QUTPUT | 0 | 5 |
| 1254日3－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 125508－1 | 10UF 5QVDC ELECTROLYTIC SMD | 2 | C3． 530 |
| 126317－1 | REL，3QA 24 V SPST PCB W／FAST | 2 | K100．K200 |
| 126日25－1 | SILICONE，CLEAR 30Z SYAINGE | 0 | 4 |
| 126929－1 | 1／4＂TRS／XLR COMBO PCB VERT | 2 | J500，J600 |
| 127442－1 | PREP，CE HI－V WIRE | 1 | WPG |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PAOAEATY O CROW INTEANTIONAN：INE AND SHALL NOT EE REPRODUCED COPIED，OA USED ÔF APFARATUS OR DEVICES WI THOUT PERMISEIO |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 102466－1 | 10 LF 250V 20\％RADIAL T／A | 」 8 |
| C2 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | F 9＊ |
| C3 | 125508－1 | 10 LF S0VDC ELECTROLYTIC SMD | I 8 |
| C4 | C 4477－3 | 470 MF 35V VEAT | $\square 10$ |
| C5 | C 4477－3 | 470 MF 35V VERT | G 9 |
| C8 | A11427－184K2 | 0.1 MF 50V 10\％0805 | H 1．0＊ |
| C7 | A11427－104K2 | 0.1 MF 50 V 10\％ 0805 | H 9＊ |
| C12 | A11427－104K2 | 0.1 MF 50V 10\％0805 | I ${ }^{*}$ |
| C20 | D 8917－3 | 8200LF 110 VDC ELECTROLYTIC | C 9 |
| E21 | D 8917－3 | 820日UF 110 VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | N 9＊ |
| C24 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N 9＊ |
| C25 | A11427－104K2 | D． 1 MF 50V 10\％0805 | 0 9＊ |
| C26 | ᄃ 8576－8 | 100 MF 35 V 10\％ELEC | 19 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10 |
| C28 | A11427－104K2 | 0.1 MF 50V 10\％0805 | 」 9＊ |
| C29 | A11427－104K2 | 0.1 MF 50V 10\％0805 | I $9^{*}$ |
| C30 | 12558日－1 | 18LF 50VDC ELECTROLYTIC SMD | I B |
| C31 | C 3679－5 | 33UF 50V 20\％VERT ELEET | I 10 |
| C101 | 102465－1 | 47LF 50V 20\％RADIAL T／R | M 9 |
| C102 | C 6802－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \%$ RAD T／R | M 9 |
| C184 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | M 9＊ |
| C105 | C1020日－4 | 100 MF 25V 20\％VERT ELEC | L 9 |
| C106 | 102438－560K2 | 56PF 200V 10\％NPO 0805 | L $\mathrm{G}^{*}$ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO 0日05 T／R | L 9＊ |
| C108 | 10243日－日20K2 | 日2PF 20日V 10\％NPO 0805 | L 10＊ |
| C109 | A11427－103K2 | 0.01 MF 50 V 10\％LHIP 8日05 | H $5^{*}$ |
| C．110 | A11369－471K2 | 470 PF 58 V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | M 7 ＊ |
| C111 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | N 8＊ |
| C112 | A11427－123K2 | 0.012 MF 50 V 10\％CHIP | 0 8＊ |
| C113 | 10246日－1 | 47UF $10 \mathrm{~V} 20 \% \mathrm{NP} \mathrm{RAD}$ T／R | N B |
| C114 | 10246日－1 | 47UF $10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | N E |
| C115 | A11427－104K2 | 0．1 MF 58V 10\％0805 | N 8＊ |
| C116 | A11427－472K2 | 4708PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 2700PF 50V 10\％LHIP 0日05 | I 7＊ |
| c118 | A10434－104」D | 日． 1 MF 250V 5\％MTL POLY | I $\theta$ |
| C119 | A11427－472K2 | 47⿹勹PF 50V 10\％X7R 0日05 | I 7＊ |
| C120 | 10243日－101K2 | 10日PF 200V 10\％NPD 0日05 | I 7＊ |
| C121 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | G 日 |
| C122 | A 1 1427－104K2 | B． 1 MF 50V 10\％0805 | F $日^{*}$ |
| C123 | C 9157－5 | 100UF 16V $20 \%$ NP ELEC RAD T／R | F $\theta$ |
| C124 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | N 10＊ |
| ᄃ127 | A11427－104K2 | 0．1 MF 50V 10\％0805 | N 9＊ |
| C12日 | A11427－104K2 | 0．1 MF 50V 10\％0805 | M 10＊ |
| C129 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | M ${ }^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | Ø． 1 MF 50V $10 \% 0805$ | H $\mathrm{B}^{*}$ |
| C131 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H 7 ＊ |
| C． 32 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F 7＊ |
| C133 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F $\mathrm{B}^{*}$ |
| C134 | A11369－102」2 | 0.001 LF 50 V 5 NPO MLC D日も5 T／ | M 7＊ |
| C135 | 10243日－101K2 | 100PF 200V 10\％NPD Q日05 | N 7＊ |
| C136 | 10321日－1 | 2． 2 UF 160 V RADIAL T／R | I 7 |
| C137 | 103210－1 | 2．2UF 160V RADIAL T／R | 17 |
| C138 | 102438－820K2 | 日2PF 200V 10\％NPO 日日05 | M 7＊ |
| C139 | A11427－104K2 | D． 1 MF 50V 10\％0005 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V CRIP 1206 | L 9 |
| C141 | A11369－471K2 | 470PF 50V 10\％NPO 0B05 T／R | N 10 |
| C142 | A11369－330」2 | 33PF 58V 5\％NPD MLC 0日05 | M 10 |
| C143 | A11427－103K5 | D． 01 MF 50 V 5 $\times 7 \mathrm{R} 1206$ | M 9＊ |
| C144 | 103191－1 | 0.47 UF Z5U $121020 \%$ 50V | G 7＊ |
| C201 | 102465－1 | 47UF 50V 20\％RADIAL T／R | J 9 |
| C202 | C 6日®2－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 102438－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \% \mathrm{NPO} 0905$ | 」 ＊$^{\text {J }}$ |
| C205 | C10288－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | J 9 |
| C205 | 10243日－560K2 | 56PF 200V 10\％NPO 0日05 | 」 9＊ |
| C207 | A11369－270k2 | 27PF 58V 10\％NPD 8805 T／A | J 9＊ |
| C28日 | 10243日－820K2 | 日2PF 200V 10\％NPQ 0日B5 | 」10＊ |
| C209 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP} 0805$ | H 3＊ |
| C210 | A11369－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0日05 T／R | K ${ }^{*}$ |
| C211 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP} 0805$ | K 7＊ |
| C212 | A11427－123K2 | 0.012 MF 50 V 10\％CHIP | L 8＊ |
| C213 | 10246日－1 | 47UF 10V $20 \%$ NP RAD T／R | K 8 |
| C214 | 10246日－1 | 47LF 10V 20\％NP RAD T／R | K 8 |
| C215 | A11427－104K2 | Q． 1 MF 50V 10\％0日05 | K $日^{*}$ |
| C216 | A11427－472K2 | 47日日PF 50V 10\％×7R 日B05 | J 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP BE05 | D $1^{*}$ |
| C21日 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | E 1＊ |
| C220 | 10243日－101K2 | 100PF 200V 10\％NPD 080S | D 2＊ |
| C221 | C10196－1 | 2．2MF 50V 20\％RAD T／R | E 日 |
| ᄃ222 | A11427－104K2 | 0．1 MF 50V 10\％0805 | E 日＊ |
| C223 | C 9157－6 | 100UF 16V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2．2MF 50V 20\％RAD T／A | 」 9 |
| C226 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | K 10＊ |
| C227 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | K 9＊ |
| C228 | A11427－104K2 | 0.1 MF 50V 10\％0805 | 」 10＊ |
| C229 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | J 9＊ |
| C230 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | E 8＊ |
| C231 | A11427－184K2 | 0.1 MF 50V 10\％0日05 | E 7＊ |
| C232 | A11427－ 04 KK 2 | 0.1 MF 50V 10\％0日05 | E 7＊ |
| C233 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | D 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only



## INACTIVE

For Reference Use Only

THESE DPAWINGS AND SPEETFICATIONS AAE THE


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D22日 | C 92日3－D | DIODE．1N914／1N4148 SOT－23 SMT | E 7＊ |
| D229 | C 92日3－0 | DIODE，1N914／1N414日 50T－23 5MT | F $\mathrm{E}^{*}$ |
| D230 | C 32日3－0 | DIDDE，1N914／1N4148 50T－23 SMT | K 9 |
| E1 | 102476－1 | LED．SMT R／A GREEN | I 1 |
| E100 | 102477～1 | LED，SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED．SMT R／A GREEN | 」 1 |
| E102 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E201 | 102476－1 | LED，SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| H1 1 |  | OPEN |  |
| H14 |  | OPEN | I 8 |
| H1日 |  | OPEN | D 9 |
| HS 1 | 102571－3 | HS ASM，T1 NON－ISOLATED CH1． |  |
| H52 | 102572－3 | HS ASM，TI NON－ISOLATED CH2， |  |
| H53 | 102569－3 | HS ASM．T1 ISOLATED CH1． |  |
| HS 4 | 102570－3 | HS ASM，T1 ISOLATED CH2，． |  |
| HW1 | 102608－1 | SPACER，6X． 187 LONG ALUMINUM | A 4 |
| HW2 | 10260日－1 | SPACER， $6 \times .187$ LONG ALUMINUM | A 4 |
| HW3 | 10260日－1 | SPACER， $6 \times .187$ LONG ALUMINUM | A 4 |
| HW4 | 102608－1 | SPACER， $6 \times .187$ LONG ALUMINUM | A 4 |
| HW5 | 10260日－1 | SPACER． $6 \times .187$ LONG ALUMINUM | A 4 |
| HW6 | 10260日－1 | SPACER， $6 \times 187$ LONG ALUMINUM | 日 4 |
| HW7 | 10260日－1 | SPACER， $6 \times .187$ LONG ALLJMINUM | 日 4 |
| HWE | 10260日－1 | SPACER，6x． 187 LQNG ALUMINUM | B 4 |
| HW | A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | D 5 |
| HW10 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 16 |
| HW1 1 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10日20－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 13 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 5 |
| HW1 4 | A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | N 6 |
| HW1 5 | A1092日－7 | 6－32 X ． 625 PC日 CAPTIVE STUD | J 2 |
| HW1 6 | A10020－7 | E－32 $\times$ ． 625 PCB CAPTIVE STUD | N 3 |
| HW1 7 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW1日 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW19 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW20 | A1105E－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW2 1 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW22 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 日 4 |
| HW2 3 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | 日 4 |
| HW2 4 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW25 | 102579－1 | STAND． $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW27 | 103435－70608 | SCREW，6－32 X． 5 TORX PNHD SEM | A 4 |
| HW28 | 103435－70508 | SCREW， 5 －32 $\times .5$ TORX PNHD SEM | A 4 |
| J 2 | 101573－1 | HDR 4 PQS ． 1 CTR MTA SHRD | G 10 |
| 13 | 102472－3 | HDR，16POS ． 100 CTR SGL ROW | M 8 |
| J 4 | 101571－1 | HDR 2 POS ， 1 CTR MTA SHRD | L 10 |
| J5 | 101993－1 | JACK，6P4 COND MODULAR R／A |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| J100 | 102473－1 | SPEAKON， 4 POLE PCE HDRZ | D 10 |
| J200 | 102473－1 | SPEAKON， 4 POLE PCE HORZ | F 10 |
| 1500 | 126929－1 | 1／4＂TRS／XLA COMBO PC日 VERT | 日 3 |
| 1502 | 102471－2 | HDR．12POS 2．5MM RT ANG KEYED | C 1 |
| 1600 | 126929－1 | 1／4＂TRS／XLR COMED PCB VERT | 日 1 |
| K100 | 126317－1 | REL．30A 24 V SPST PCB W／FASTON | G 9 |
| K200 | 126317－1 | REL．30A 24 V SPST PCE W／FASTON | E 9 |
| L180 | c 3510－2 | CHOKE，470UH 10\％AXIAL | N 7 |
| L181 | C 3510－2 | CHOKE， 478 UH $10 \%$ AXIAL | I 7 |
| L102 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | H B |
| L200 | C 3510－2 | CHOKE．470UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHDKE， 47 リபH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR．2．75UH 11A RADIAL | 11 |
| Q1 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| $\square 2$ | 102479－1 | PWR MJD112 NPN DARLINGTON 108V | I 10 |
| Q3 | 102479－1 | PWR MJD1 12 NPN DARL．INGTON 10日V | I 10 |
| Q100 | C 7448－1 | MMBT3904 CHIP NPN | M 9＊ |
| Q101 | C 7448－1 | MMET3904 CHIP NPN | M 9＊ |
| Q102 | C 9931－4 | MMBT5097LT1 PNP XSISTOR SOT－23 | N 9＊ |
| Q103 | 10248コ－1 | PNP ЭロロV 50QMA SQT－23 | L 9＊ |
| Q104 | C 9252－5 | 2N3904 4RV NPN TRANSISTOR | I 6 |
| Q185 | 103193－1 | PNP 30日V 500MA 50MHZ SOT－223 | M ${ }^{\text {＊}}$ |
| 0107 | 103192－1 | NPN 30日V 50日MA 50MHZ SOT－223 | M 7 ＊ |
| 0108 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | N 8＊ |
| 0109 | C 9931－4 | MMBT5087LT1 PNP XSISTOR SOT－23 | N 8＊ |
| 0110 | 103192－1 | NPN 30®V 500MA 50MHZ 50T－223 | N 7＊ |
| 0111 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q120 | 103193－1 | PNP 30日V 500MA 50MHZ SOT－223 | $17^{*}$ |
| Q129 | C 7448－1 | MMET3904 CHIP NPN | G 9＊ |
| Q131 | 125106－1 | MACSD 8 AMP 400V TRIAC | F 9 |
| 0132 | 102478－1 | TRIAL DRIVER SBS EV THRESH | F 3 |
| Q133 | 1024日0－1 | FET．N－CH 25V 50MA SOT－23 | M 9＊ |
| 0200 | C 744日－1 | MMET3984 CHIP NPN | K $\mathrm{S}^{*}$ |
| प201 | C 7448－1 | MMBT3904 CHIP NPN | K 9＊ |
| Q202 | C 9931－4 | MMBT5087LT1 PNP XSISTOA SOT－23 | L 9＊ |
| 0203 | 1024日3－1 | PNP 380V 500MA SOT－23 | 」 9＊ |
| 2204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| 0205 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | 」 ${ }^{*}$ |
| 0207 | 103192－1 | NPN Э®⿹V 50日MA 50MHZ 50T－223 | K 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| ロ208 | 102481－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| 0209 | C 9931－4 | MMBT50日7LT1 PNP $\times 5$ ISTOR SOT－23 | K $8^{*}$ |
| 0210 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | J 2＊ |
| 0211 | C 9931－4 | MMET50日7LT1 PNP $\times 5$ ISTOR SOT－23 | J 2＊ |
| 0220 | 103193－1 | PNP 30ØV 500MA 50MHZ 50T－223 | D 2＊ |
| 0229 | C 7448－1 | MMBT3904 CHIP NPN | E 9＊ |
| 0231 | 125106－1 | MAC9D 8 AMP 40日V TRIAC | E 9 |
| Q232 | 102478－1 | TRIAC DRIVER SBS 日V THRESH | F 8 |
| Q233 | 1024日0－1 | FET，N－CH 25V 50MA SOT－23 | J 9＊ |
| R1 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 $8^{*}$ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 」 $8^{*}$ |
| R3 | A1 1371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \%$ LHIP 0日05 | I $8^{*}$ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | $11^{*}$ |
| R5 | A1136B－69611 | 6．9日K DHM D．10W 1\％CHIP 0805 | D $8^{*}$ |
| R6 | A11368－93111 | $9.31 \mathrm{~K} \mathrm{0.1W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0日05}$ | D $8^{*}$ |
| R7 | 103199－1 | 0． $4 \mathrm{OHM} \mathrm{1W} \mathrm{5} \mathrm{\%} 2512 \mathrm{~T} / \mathrm{R}$ | 」 $\mathrm{O}^{*}$ |
| R8 | A11371－1022 | 1 K 0．125W $5 \%$ CHIP 1206 | N 10＊ |
| R9 | A11368－10021 | 10K 1／10W 1\％EHIP D日05 | H $\mathrm{g}^{*}$ |
| R10 | A1；368－20023 | 20K 0．25W 1\％CHIP 1210 | H 9＊ |
| R1 1 | A11371－3341 | 330 K 0.10 W 5\％CHIP 0805 | I $3^{*}$ |
| R12 | A1136日－68121 | 6日． 1 K ロ．10W $1 \%$ CHIP | I $\mathrm{S}^{*}$ |
| R13 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0日05 | I 10＊ |
| R14 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0日05 | I 10＊ |
| R15 | A11371－0R21 | D． 2 OHM D． $10 \mathrm{~W} 5 \%$ CHIP 0805 | I 10＊ |
| R16 | A11371－3923 | 3．9K ロ．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | $8.25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0885 | F 10＊ |
| R1日 | A11368－71511 | 7．15K 1／10W 1\％CHIP 0805 | D $8^{*}$ |
| R19 | A11371－3313 | 330 DHM 0．25W 5\％CHIP | I 1＊ |
| R20 | A1136日－57621 | 57.6 K 0.10 W 1\％CHIP 0805 | I 9＊ |
| R21 | A11368－12121 | 12.1 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 \％$^{*}$ |
| R22 | A11368－39231 | 392K $0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | $13^{*}$ |
| R23 | A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | $19^{*}$ |
| R24 | A11368－57621 | 57．6K 0．10W 1\％CHIP 0805 | $1{ }^{\text {＊}}$ |
| F25 | A11368－10031 | 100K 0．1W 1\％CHIP 0日05 | N 9＊ |
| R26 | A11371－3341 | 330K 0．10W 5\％LHIP D日05 | A 9＊ |
| R27 | A1136日－20021 | 20K 日．10W 1\％CHIP 0日05 | L 9＊ |
| R2日 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| CROWN I |  |  | INTERNATIDNAL <br> ELKHART，INDIANA 46517 PHONE |  |  | INC． <br> 219）294－8000 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| dramn | KLW | 03－26－99 | DWG．NO． |  | SHEET | 12 | F 28 |  |
| PROJ． |  | 398d8 |  | $\square$ | － |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| R30 | A11358－10031 | 100K 0．1W 1\％CHIP 0805 | $18^{*}$ |
| F31 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | 」 $8^{*}$ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 8 |
| R33 | A11371－6R21 | 0．2 0HM D．10W 5\％CHIP 0885 | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | J 8 |
| R100 | 102595－3 | POT，5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0日05 | M 10＊ |
| R102 | A1138日－39231 | 392K 0．10W 1\％CHIP 0805 | N 9＊ |
| R103 | A11368－49981 | 499 OHM 0.10 W 1\％CHIP 0日65 | N $\mathrm{S}^{*}$ |
| R184 | A11368－10021 | 10K 1／1日W 1\％CHIP 0日®5 | N 9＊ |
| R185 | A11371－6日14 | 680 DHM D．50W 5\％CHIP | 」 1＊ |
| R106 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP ロ日®5 | M 9＊ |
| R107 | A1136日－10021 | 10K 1／10W 1\％CHIP 0B05 | L $10 *$ |
| R16日 | A1135日－10021 | 10K 1／10W 1\％LHIP 0日05 | L 10＊ |
| R109 | A1136日－19122 | 19．1K $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | M 9＊ |
| R110 | A1136日－1001： | 1K Q．10W 1\％CHIP 0日05 | L 9＊ |
| R111 | A1136日－10021 | 10K 1／1日W 1\％CHIP 0日05 | L 9＊ |
| R112 | A10265－19121 | 19.1 K －．25W $1 \% \mathrm{MF}$ | L 9 |
| R1 13 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | L 10＊ |
| A1 14 | A1136日－82511 | 日．25K 0．1W 1\％CHIP 0日05 | L 10＊ |
| R115 | A1138日－6日121 | 68．1K 0.10 W 1\％CHIP | L 10＊ |
| R116 | A1136日－22801 | 226 OHM 0．18W 1\％CHIP 0805 | M $3^{*}$ |
| R117 | A11371－3341 | 330K 0．10W 5\％CHIP B805 | M 9＊ |
| R11晶 | A1136日－68111 | 6．日1K OHM 0．10W 1\％CHIP 0805 | M 10 |
| R119 | A11371－3333 | 33K D．25W 5\％CHIP 1210 | M 9＊ |
| R120 | A1138日－90921 | 90．9K 0．10W 1\％CHIP 8805 | M ${ }^{*}$ |
| R121 | A1135日－10021 | 10K 1／10W 1\％CHIP 0e05 | M 10 |
| R122 | A113E日－15日31 | 15日K 0．10W 1\％CHIP 0805 | N 9＊ |
| R123 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 0805 | M 9＊ |
| R124 | A1138日－15931 | 15日K 0．18W 1\％CHIP 0805 | M 9＊ |
| R125 | A1136日－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \% \mathrm{CHIP} 0885$ | N 9＊ |
| R126 | A1136日－49921 | 49．9K 0．1W 1\％CHIP O805 | M 9＊ |
| R127 | A11371－6821 | 6．8K 0．10W 5\％LHIP 0805 | N 3＊ |
| R12日 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | 口 $8 *$ |
| R131 |  | OPEN | $08^{*}$ |
| R132 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 6＊ |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 6＊ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7＊ |
| R136 | A11371－6201 | 82 DHM B．10W 5\％CHIP | M 7＊ |
| R137 | A11368－15002 | 150 DHM D． 125 W 1\％CHIP | N 8＊ |
| R138 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊＊ |
| R139 | A11368－13703 | 137 OHM 0．25W 1\％CHIP | N 8＊＊ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $8^{*}$ |
| R141 | A11371－8211 | 日20 OHM 0．10W 5\％EHIP | O 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R142 | 125478－1 | $3.83 \mathrm{KOHM} \mathrm{0.50W} \mathrm{1} \mathrm{\%} 2010$ T／R | O 日＊ |
| R143 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $8^{*}$ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N $8^{*}$ |
| R1 45 | A11371－1213 | $12 \mathrm{OHM} 0.25 \mathrm{~W} 5 \%$ CHIP | N 8＊ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | N 7 ＊ |
| R147 | A11371－1011 | 100 OHM D． $10 \mathrm{~W} 5 \%$ CHIP B日05 | N 7＊ |
| R14日 | A11371－1日11 | 18 O OHM 0．10W 5\％LHIP | M 7＊ |
| R150 | A11371－5R63 | 5．6 0．25W 5\％CHIP | N E＊ |
| R152 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 6＊ |
| R153 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R156 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R15日 | A10266－2R74 | 2．7 OHM 2W 5\％CF | I 日 |
| R159 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 6＊ |
| F160 | A11371－1501 | 15 OHM 0．10W 5\％LHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM D．10W 5\％LHIP 0805 | H 7＊ |
| R162 | A11371－4701 | 47 OHM D．10W 5\％CHIP | H 7＊ |
| R163 | A1 1371－1日 11 | 180 OHM 0．18W 5\％EHIP | I 7＊ |
| R165 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | I 5＊ |
| R167 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R168 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 6＊ |
| R171 | 103193－1 | 0．4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R172 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | H 6＊ |
| R174 | A11368－60432 | 604K OHM 0．125W $1 \%$ CHIP 1205 | G 日＊ |
| R175 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日05 | G 日＊ |
| R176 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0805 | G $日^{*}$ |
| R177 | A11368－12021 | 10K 1／10W 1\％CHIP 0805 | H 8＊ |
| R178 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R179 | A11368－10031 | 10aK 0．1W $1 \%$ CHIP 0805 | F 7＊ |
| R1日0 | A11368－39231 | 392K 0．10W 1\％EHIP BB05 | G 日＊ |
| R1日1 | A11371－6814 | 6日0 DHM 0．50W 5\％CHIP | 」 1＊ |
| R1日2 | A11388－10021 | 10K 1／10W 1\％EHIP 0日日5 | F $\mathrm{E}^{*}$ |
| R1日3 | A1 1368－10031 | 100K $0.1 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | F 日＊ |
| R184 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | F $9^{*}$ |
| R185 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | G 8＊ |
| R186 | A11368－10031 | 100K 0．1W 1\％［HIP 0805 | N 10＊ |
| R187 | A11368－15831 | 158K D．10W 1\％CHIP 0805 | M 10＊ |
| R188 | A11368－15831 | 15日K 0．10W $1 \%$ LHIP ®日05 | N 10＊ |
| R189 | A1136日－10931 | 100K $0.1 \mathrm{~W} 1 \%$ CHIP 0805 | M 10＊ |
| R190 | A11368－57621 | 57．6K 0．10W 1\％CHIP 8805 | N 百＊ |
| R191 | A1136日－22601 | 226 DHM D． 10 W 1\％LHIP DQD5 | N E＊＊ |
| R192 | A1136日－60432 | E04K OHM 0．125W 1\％CHIP 1206 | L 9＊ |
| R193 | A1136日－10021 | 10K 1／10W 1\％CHIP D805 | N 9＊ |
| R194 | A11371－8201 | 日2 DHM 0．10W 5\％CHIP | M 7＊ |
| R195 | A11371－8211 | 日20 DHM 8．10W 5\％CHIF | M 7 ＊ |
| R196 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | M 9＊ |
| R197 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0日05 | M 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| R198 |  | OPEN | M 10 |
| R199 | A11371－0R82 | 0．0 OHM JUMPER LHIP 1206 | N 8＊ |
| R200 | 102595－3 | PQT，5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A11368－10011 | 1 K D．10W 1\％CHIP De05 | K 10＊ |
| R202 | A11368－3923i | 392K 0．10W 1\％CHIP 0日05 | L ¢＊$^{*}$ |
| R203 | A1 1368－49901 | 499 DHM D． $10 \mathrm{~W} 1 \%$ EHIP 0805 | L $\mathrm{S}^{*}$ |
| R204 | A11368－10021 | 10K 1／10W 1\％CHIP 0905 | L 9＊ |
| R205 | A11371－6B14 | 680 OHM 0．50W 5\％CHIP | M 1＊ |
| P206 | A1136日－10011 | 1K D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 ＊$^{\text {k }}$ |
| R209 | A1136日－ 9122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | K 9＊ |
| R210 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 8805 | 」 $\mathrm{S}^{*}$ |
| R211 | A1136日－10021 | 10K 1／10W 1\％CHIP 8805 | 」 9＊ |
| R212 | A10265－19121 | 19．1K $0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 」 9 |
| R213 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP De0s | 」 10＊ |
| R214 | A1136日－82511 | 8．25K 0．1 W 1\％CHIP 0805 | 」 $10 *$ |
| A215 | A1136日－6日121 | 6日．1K 日．10W 1\％CHIP | J 10＊ |
| A215 | A1136日－22601 | 226 OHM 0．10W 1\％CHIP 0805 | K 9＊ |
| R217 | A11371－3341 | 330K ロ．10W 5\％CHIP 0805 | 」 9＊ |
| R21日 | A1136日－6日111 |  | K 10 |
| R219 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 」 ${ }^{*}$ |
| R220 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ LHIP 0805 | K $\mathrm{S}^{*}$ |
| R221 | A1136日－10221 | 10K 1／10W 1\％CHIP D日05 | K 10 |
| R222 | A1 136日－15831 | 15日K 0．10W 1\％CHIP 0日05 | K 9＊ |
| R223 | A1136日－10031 | 100K 0．1W 1\％CHIP 0805 | K 9＊ |
| R224 | A1136日－15日31 | 15日K ロ．10W 1\％CHIP 0805 | K 9＊ |
| R225 | A11368－10031 | 100K 0．1W 1\％CHIP D日05 | L 9＊ |
| R226 | A1 $1368-49921$ | 49．9K 0．1W 1\％CHIP 0805 | K 9＊ |
| R227 | A11371－6日21 | 6．8X 0．10W 5\％CHIP 0885 | K 9＊ |
| R228 | A11371－6日14 | 6日0 OHM В．50W 5\％CHIP | M 1＊ |
| R229 | A11371－8211 | q20 OHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER $T / R$ | 17 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 $7 *$ |
| R236 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | 」 7＊ |
| R237 | A11368－15002 | 150 DHM D．125W 1\％CHIP | K $8^{*}$ |
| R238 | A11371－1213 | 120 OHM O． $25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | K 7＊ |
| R239 | A11368－13703 | 137 OHM 0．25W 1\％CHIP | K $\mathrm{B}^{*}$ |
| R240 | A1 1371－3333 | 33K 0．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | L 8＊ |
| R242 | 12547B－1 | $3.83 \mathrm{KOHM} \mathrm{B.50W} 1 \% 2010 \mathrm{~T} / \mathrm{R}$ | L 7＊ |
| R243 | A11371－3333 | 33 K 0．25W 5\％CHIP 1210 | K $\mathrm{B}^{*}$ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $8^{*}$ |
| R245 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $8^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 8日05 | 」 ${ }^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R247 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0日05 | 」 2＊ |
| R248 | A11371－1811 | 188 OHM 8．10W 5\％CHIP | K 2＊ |
| R250 | A11371－5R63 | 5.8 8．25W 5\％CHIP | J 2＊ |
| R252 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | K 4＊ |
| R253 | 103159－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 3 ＊ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 4＊ |
| R257 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 3 ＊ |
| R259 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM D．10W 5\％CHIP | D 1＊ |
| R261 | A11371－1331 | 13K OHM 0．10W 5\％CHIP 0日05 | E 2＊ |
| R262 | A11371－4701 | 47 OHM 0．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5．6 0．25W $5 \%$ CHIP | E 2＊ |
| R267 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R268 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | $F{ }^{\text {＊}}$ |
| R271 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／R | H 4＊ |
| R272 | 183199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A11368－60432 | 604K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1285 | E 8＊ |
| R275 | A11368－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | E $8^{*}$ |
| R276 | A11388－114821 | 10K 1／10W 1\％CHIP 0日05 | E $8^{*}$ |
| P277 | A11368－10221 | 10K 1／10W 1\％CHIP 0日05 | E ${ }^{\text {＊}}$ |
| A278 | A11368－98921 | 90．9K 0．18W 1\％CHIP 0805 | L S＊ |
| R279 | A11368－10031 | 100K 0．1W 1\％CHIP 0005 | E 7＊ |
| R280 | A11368－39231 | 392K 0．10W 1\％CHIP 0日05 | E ${ }^{\text {＊}}$ |
| R2日 | A11371－6814 | 6日0 OHM 0．50W 5\％CHIP | M ${ }^{*}$ |
| R2日2 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | D $8^{*}$ |
| R2日3 | A11368－10031 | 100K 0.1 W 1\％CHIP 0日05 | E $8^{*}$ |
| R2日 4 | A1136日－20023 | 20K 日．25w 1\％CHIP 1210 | F ${ }^{\text {\％}}$ |
| R2日5 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | F ${ }^{*}$ |
| R2日6 | A11368－10031 | 100k $0.1 \mathrm{~W} 1 \%$ CHIP 0005 | L 10＊ |
| R287 | A11368－15831 | 158 K 0．10W 1\％CHIP 0805 | K 10＊ |
| R298 | A11368－15931 | 15日K 0．10W 1\％CHIP 0805 | K 10＊ |
| R2日9 | A11358－18031 | 100K 0.1 W 1\％CHIP 0805 | K 10＊ |
| R290 | A11368－57621 | 57．6K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N ${ }^{*}$ |
| R291 | A11368－22601 | 226 OHM 0．10W 1\％CHIP 0805 | N 3＊ |
| R292 | A1136日－68432 | E04K OHM E． 125 W 1\％CHIP 120 E | J 9＊ |
| R293 | A11368－10021 | 10K 1／10W 1\％CHIP 0005 | K 9＊ |
| R294 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | 」 $7 *$ |
| R295 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | 」 7＊ |
| R298 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日85 | K 9＊ |
| R297 | A1136日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0885 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－8R02 | B． 0 OHM JUMPER CHIP 1205 | K 日＊ |
| R308 | 183199－1 | B． 4 OHM IW 5\％ 2512 T／R | D 6＊ |
| R301 | 103199－1 | D． 4 OHM iW 5\％2512 T／A | J 6 ＊ |
| R302 | 183199－1 | 0．4 OHM 1W 5\％ 2512 T／A | K 5＊ |
| R305 | 103199－1 | D． 4 OHM iW 5\％ 2512 T／R | M ${ }^{\text {＊}}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| ค306 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| 1397 | 103199－1 | 0.4 OHM iW 5\％ 2512 T／R | E E＊ |
| R308 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F $\mathrm{E}^{*}$ |
| R311 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | E6＊ |
| R312 | 103159－1 | 0.4 OHM 1W 5\％ 2512 T／R | $16^{*}$ |
| R313 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | $67 *$ |
| R314 | A11371－3341 | 330 K 0．10W 5\％CHIP 0B05 | G 7＊ |
| R315 | A1136日－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0885$ | H 7＊ |
| R316 | A1136日－10011 | 1 K 日．10W 1\％CHIP 0日85 | M 10＊ |
| R317 | A11371－3934 | 39K OHM 0．50W 5\％LHIP 1210 | N 8 |
| R318 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM．25W $5 \% 1210$ SMT T／R | L 9 |
| R323 | A11371－0R02 | Q．$\triangle$ OHM JUMPER CHIP 1206 | G 8 |
| R400 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 3＊ |
| R401 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | 」 4＊ |
| R402 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 4 ＊ |
| R406 | 103199－1 | 0．4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| R407 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R40日 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R4 11 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | H 4＊ |
| R412 | 103199－1 | 0．4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I 3＊ |
| R413 | A11368－10021 | 10K 1／10W 1\％EHIP 0805 | E 7＊ |
| R414 | A11371－3341 | 330K D．10W 5\％LHIP 8日05 | E 7＊ |
| R415 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | E 7＊ |
| R416 | A1 1368－10011 | 1 K 0.10 W \％CHIP 0805 | K 10＊ |
| R417 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R41日 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 日 |
| R419 |  | OPEN | K 10＊ |
| F420 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5．6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 10® OHM ．25W 5\％ 1210 SMT T／R | J 9 |
| R423 | A11371－0R02 | 0.0 OHM JUMPER CHIP 1206 | F 8 |
| R50］ | A11358－10021 | 10K 1／10W 1\％EHIP 0805 | A 3 |
| R501 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R502 | A1135日－10221 | 10K 1／10W 1\％CHIP 0805 | B 2 |
| F503 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | B 2 |
| F504 | A1136日－10021 | 10K 1／10W 1\％CHIP 0e05 | A 2 |
| R506 | A1136日－10021 | 10K 1／10W 1\％CHIP 08D5 | A 2 |
| R508 |  | QPEN | C 2 |
| F600 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R601 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R602 | A1136日－10021 | 10K 1／10W 1\％LHIP 0805 | A 2 |
| R603 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| ¢604 | A1136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ LHIP 日B05 | A 1 |
| R606 | A1136日－10021 | 10K 1／10W $1 \%$ EHIP 0日05 | Q 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIQN | MAP LOC． |  |
| R607 | A11371－8205 | 日2 DHM 1 W 5\％CHIP 2512 |  |  |
| R608 |  | OPEN | C 1 |  |
| 51 | 1024日8－1 | SPDT HORIZ SLIDE | L 10 |  |
| S2 | C 7325－1 | 2P 2 PDS．PC SLIDE SW． | L 10 |  |
| TE1 | 102475－1 | BLOCK， 5 POS TERMINAL | A 2 |  |
| TPヲ日 | C 9896－9 | TEST POINT LOOP |  |  |
| TP39 | C 9896－9 | TEST POINT LOOP |  |  |
| U1 | C 5095－2 | PDS． 15 VOLT REG． | H 10 |  |
| ப1× | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |  |
| ப2 | ᄃ 5096－0 | NEG． 15 VOLT REG． | H 9 |  |
| U2X | C 9918－1 | TO220 VERT CLIP－ON HEATSINK |  |  |
| U3 | 102486－1 | OPTO BJT NPN SOIC－8 CTR－100\％ | N 10 |  |
| L4 | C 8262－5 | MC3307日D DUAL LQ NOISE OP AMP |  |  |
| 45 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | N 9 |  |
| U100 | 102723－2 | OPTO CELL ON＝50日 OHM | M 9 |  |
| ப181 | C 9812－3 | MC33079D QLAD LD NOISE OP AMP | M 10 |  |
| ப102 | C 9038－8 | COMPARATOR，QUAD LM339D SD－14 |  |  |
| U104 | C 903日－日 | COMPARATOR，QUAD LM339D SD－14 |  |  |
| U105 | C 8262－5 | MC3307日D DUAL LQ NOISE OP AMP | F 7 |  |
| U106 | H4 2902－9 | ASM，THERMAL SENSE | N 6 |  |
| U200 | 182723－2 | OPTO CELL ON＝500 OHM | K 9 |  |
| ப281 | ᄃ 9012－3 | MC33079D QUAD LO NOISE OP AMP | J 10 |  |
| U282 | C 9038－8 | COMPARATOR，QLAAD LM339D SO－14 |  |  |
| ப284 | C 9038－8 | COMPARATOR，QUAD LM339D S0－14 | E 7 |  |
| ப205 | C 日262－5 | MC3307日D DUAL LO NOISE OP AMP | E 7 |  |
| ப206 | H42902－9 | ASM，THERMAL SENSE | N 3 |  |
| L500 | C 9012－3 | MC33079D QUAD LO NQISE OP AMP | A 2 |  |
| WP 1 | A1137日－A058U | WIRE， 16 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | $103331-N 050 R$ | WIRE， 16 日LK／WHT TAB $\times 5 \times$ T | A 9 |  |
| WP3 | A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | A 9 |  |
| WP4 | 101031－1 | 250 FASTON．AUTQ INSERTABLE | D 7 |  |
| WP5 | 101031－1 | 250 FASTON，ALTO INSERTA日LE |  |  |
| WP6 | 127442－1 | PREP．CE HI－V WIRE | 」 8 |  |
| WP7 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D B |  |
| 21 |  | OPEN | E 9 |  |
| 1 | 10213日－9 | PW日，CE10日Q／CE2000 MAIN／INPU | 5EE COMP MAF |  |
| 2 | 101016－1 | LBL，BARCODE． | SEE COMP MAP |  |
| 3 | 125242－1 | CAP，．625ID X 9＊VINYL | SEE COMP MAP |  |
| 4 | 126825－1 | SILICONE，CLEAR 30Z SYRINGE | SEE COMP MAP |  |
| 5 | 125482－1 | ADHESIVE LDCTITE 384 OUTPUT | SEE COMP MAP |  |
| 6 | 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | SEE COMP MAP |  |
| 7 | 103180－1 | 日UMPER，0．4＂TALL BLK W／ADH | SEE COMP MAP |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## Component Map

for use with
Main PWA \#102139-11



INACTIVE

## 102140 rev H <br> PWA, Main CE2000 <br> PWB part number 102138-6 <br> PWA part number 102140-6

 Schematic Drawing number 102141 rev F| E．c． | ZONE | $\begin{array}{\|c\|} \text { REV. } . \\ \hline E \\ \hline \end{array}$ | DESERIPTION |  | BY | APPAOVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Date | or |  |  |  |  |
|  |  |  | NOTE 2 WAS te2130－4．NOte 3 WAB 1e2140－4． | 11／2＠／97 | TLa | Kw |  |  | Ts |
| $\begin{gathered} \text { DCNE } \\ 97 \text { Doug } \end{gathered}$ |  | $F$ | A1s WAS 2．2K．ADPEP NOIEE 13－14．ADDED ITEM B <br>  Nasem．mej was Arli＞e－cesest ADBED C2E STLKECAEGN LEGEND TO \＄HT 10 COMFONENT MNP．CORNECTED C2E CHN ON EHTEET E．WOVED ITEM 2 ON EHEET IE COMODNENT HWP．A25t IS WOW A－DO NOT INSTALL＊． | 12／12／97 | TLM | KW |  |  | TS |
| DCNF 98paba |  | 6 | WOTE 2 WAS 162 I3E－5．NOYE 3＂WXS 102T44－5． <br>  RS Was Atista－8a7it，A11 WAS A13371－514i． ADDED 17 ． | 11－09－98 |  | TLN |  |  | TS |
| DCN： <br> gemade7 |  | H |  3ND Mase weme 285s－2． | 91－18－99 | TLS | K |  |  |  |

NOTES：
SLKEMKTIC BRAWING Nuwigh 102142
Pw Pant mumen $102130+5$ ．

THE TWA SHALL HEET THE TPC－A＋BT日．CLASE 2 STANDAMPS．

OOSITION COnPONENT＇S AS SHOWN ON COMPDNENT MAP．
COMPONENTS TMAF MAVE（由：AFTER TMEIM MAP LOCATION
ANE MOUNTED OM THE BOTTOM side DF THE FHINTED CIACUIT BOAAD

IN MOLES．






CONWECT TME wines TMAT COAF fnom 0123 AND DZz3 TO WH ANP whe meafectpulcr．
 MOPLEE SHALL EE MAREED ON THE F．C．BOADO AND SHALL ec ménuanEny
12．1NSTALLATION DF UIA日 AND U2ES I8 AS FCLLONS：


12C．PLACE THANSISTON 1 MTO The man as smomion Thit comiondent uap betait b．
127．MIX OUFWUT ENOXY AND ALCELEDATOR TOEETHEA．


 （HOTE：WO VIsTELE AIA CAES AROUND THE TRANSISTOA AND THE THANSISTOM LEADS CANOMT HGUCH THE MEATSINE：


13A．PRE－WAVE TONOXS DF－



CAALTGCN

## INACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version

THESG DHAWINGS AND SFECLFICATIONS ARE THE PROPERTY OF EMOWN SNTERNAF JONML．JNC．AND Shall NDT OE MEMODKEE．COPSED．OR USED AS THE RASIS FOR THE MANUFACTUNG DP SALE


| PRINTS TO |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $K$ | PWA，MAIN CERBBE |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { IFIED } \\ & 6.820 \\ & \text {. } 18 \\ & .893 \\ & \hline \end{aligned}$ |
|  | DAAMN | TL．${ }^{\text {a }}$ | －9－99－97 | APPMOYED er： |  |  | Do Not gcale Phint |  |  |  |  |
|  | CHECKED | Kw | 99－09－97 | ME | Pw |  | SUPERSEDES 1 ati4e mev．g |  |  |  |  |
|  | SCALE | NOME |  | Et |  | 198－98－97 | E．C．DCNE GODAOA？ |  |  |  |  |
|  | FROJ＊ |  | 39abe | PE | TS | 19－99－97 | $\begin{aligned} & \text { DWE. No. } \\ & 102140 \end{aligned}$ |  | $\begin{array}{ll} \text { SWEET } \\ \text { CONT, OW } \\ \text { SHEFT } \end{array}$ |  | HEV |
|  | FILENANE：1E214e－simel．PCO |  |  | NEXT ASM： |  |  |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | FEFERENCE DESIGNATION |
| 101016－1 | LEL，BARCODE， | 1 | 2 |
| 101831－1 | Q． 250 FASTON，ALTT INSERTAEL | 2 | WP4，WP5 |
| 101571－1 | HDR， 2 POS 11 CTR MTA SHRD | 1 | 14 |
| 191573－1 | HDR， 4 POS ， 1 CTR MTA SHRD | 1 | 12 |
| 101593－1 | JACK，GP4 COND MODULAR R／A | 1 | J 5 |
| 102138－5 | PW日．CEICOD／CEZEOD MAIN | 1 | 1 |
| 102438－101K2 | 10ДPF 200VV NPO D日as T／R | B | C104． 120. C135．E284．C220． |
|  |  |  | C235 |
| 102438－221K2 | 220PF 20日V 10\％NPO 0805 T／R | 2 | C111．C211 |
| 10243日－560K2 | S6PF 200V 10\％NPO T／R | 2 | C106．C276 |
| 10243日－日20k2 | 82PF 200V 10\％NPO Q日0s T／R | 4 | C10日，C28日，ट13日，C230 |
| \＄02465－1 | 47UF S0V 20\％RADIAL T／Fi | 2 | C181，ट201 |
| 102465－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102467－1 | 22UF 25V 20\％RADIAL T／R | 2 | C103．C203 |
| 182468－1 | 47UF 10V 20\％NP RAD T／R | 4 | C113．C114．C213．L214 |
| 102470－1 | INDUCTDR． $2,75 \cup H 11 A$ RADIAL | 2 | L102．L202 |
| 102472－3 | 12POS ，TOACTP ASSY SGL ROW | 1 | 13 |
| 102473－1 | SPEAKON． 4 POLE PCE HORZ | 2 | J108． 5200 |
| 102476－1 | LED．SMT R／A GREEN | 3 | E1．E181．E201 |
| 102477－1 | LED．SMT R／A RED | 4 |  |
| 162478－1 | TRIAC DRIVER．SES EV THRESH | 2 | 0132.0232 |
| 102479－1 | PWR NPN DARLINGTDN 10EV 2A | 2 | Q1． 12 |
| $182480-1$ | MMEF485bLT1 FET 25V SOT－23 | 2 | 0133．0233 |
| 102481－1 | NPN 25V LOW NOISE 50T－23 | 2 | 0188．020日 |
| 102483－1 | PNP 300V S00MA SOT－23 | 2 | 0183．0203 |
| 102486－1 | OPTO EJT NPN SOIC－E ETR＝100\％ | 1 | 43 |
| 1122488－1 | SPDT HORIZ SLIDE | 1 | 5100 |
| 102573－1 | HS ASM，T2 ISOLATED EH1： | 1. | H53 |
| 102574－1 | HS ASM，T2 ISOLATED CK2．． | 1 | H54 |
| 102575～1 | HS ASM，T2 NON－ISOLATED CH1． | 1 | HS 1 |
| 102578－1 | HS ASM．T2 NON－ISOLATED CH2． | 1 | HS2 |
| 102578－1 | SPACER．6X． 125 AL ELK ANOD | 8 | HW1，HW2，HW3，HW4，HW5，HWE． |
|  |  |  | HW7．HWE |
| 102595－2 | 5K LIN 21 DETENT 12MM HDRIZ | 2 | R100，R200 |
| 103180－1 | BUMPER，D．4．TALL BLK W／ADH | 3 | 7 |
| 10319！－1 | 0．4\％LJF 59V Z5U 121日 T／R | 4 | E121．C124．C221．C224 |
| 103192－1 | SDT－223 NPN 300V 500MA 50 MHZ | 4 | 0187，0110．0207．0210 |
| 103193－1 | SOT－223 PNP 300V 500MA 50MHZ | 4 | 0105．0120．0205．0220 |
| 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | 52 | R152，R153，R154，R155，R156． |
|  |  |  | R157．R159，R167，R168．R169． |
|  |  |  | R170，R171，R172．R252．R253． |
|  |  |  | R254，R255，R256，R257．R259， |
|  |  |  | R267．F26日，R2E9，R270，R271． |
|  |  |  | R272．R300．R301． $9302 . \mathrm{R303}$. |
|  |  |  | R304，R305，R396，R307．R308． |
|  |  |  | R309，R310．R311．R312，R400． |
|  |  |  | R401，R402．R403．R404．R405． |
|  |  |  | R40E，R407．R40日，R409，R410． |
|  |  |  | R411，R412 |
| 103218－1 | 2．2UF 160 V RADIAL T／R | 4 | C136．C137，C236．C237 |
| 103331－N050月 | WIRE， 14 ELK／WHT 3／16X5．0XT | 1 | WP2 |

## INACTIVE

CROWN INTERNATIONAL
1710 mest mishawaka road elkhart．indiana 45517

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| 125106－1 | MACSD 8 AMP 4 EOV TRIAC | 2 | Q131． 0231 |
| 125242－1 | CAP，S25ID X ${ }^{\prime \prime}$ V VINYL | 1 | 3 |
| 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 1254日3－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 8 | 6 |
| 125508－1 | 10UF 50V 20\％SMT AL ELEC T／R | 1 | C3 |
| A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | E | HW1 ${ }^{\text {HW．HW1 1．HW12．HW13．HW14．}}$ |
|  |  |  | HW！5．HW1 5．HWG |
| A10265－2R74 | 2.7 OHM 2W 5\％CF T／R | 1 | R15 5 |
| A11056－1 | 6－32 HEX NLT W／BELLEVILLE | 8 | HW1 7．HW1日，HW19．HW2 H．HW21． |
|  |  |  | HW22．HW23，HW24 |
| A1136日－10011 | 1．KOHM ． 1 W 1\％CHIP OBOS | 4 | R106．R110．R206．R210 |
| A1136日－10021 | 10K 1／10W 1\％SMD D日0S T／R | 24 | R101．P104．R107．R10日．R11：． |
|  |  |  | R176，R177．R1日2，R185． |
|  |  |  | R193．R201，R204，R211，R27E． |
|  |  |  | R277．R2日2，R285，R293．R313． |
|  |  |  | R316．R413．R416．RTS．R27 |
| A11360－10031 | 100．KOHM ． 1 W 1\％EHIP ${ }^{\text {abes }}$ | 13 | R123，R125，R179，R2日9， |
|  |  |  | R183，R186．R189．R223． |
|  |  |  | R225．R25．R279．R283．R286． |
| A1136日－10703 | 107 OHM－25W 1\％1210 T／R | 2 | R139，R239 |
| A1136日－12121 | $12.1 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 0805 T／R | 1 | R21 |
| A11368－15日31 | $158 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 1805 T／R | 9 | R122，R124．R222．R224．R1日7． |
|  |  |  | R188．R287．R2日日 |
| A11368－19122 | 19.1 KOHM ． 125 W 1\％CHIP RES | 4 | R112．R189．R212．R209 |
| A11368－20023 | 20．0KOHM． 25 W 1\％ $1218 \mathrm{~T} / \mathrm{A}$ | 3 | R10．R184． R 284 |
| A11368－22601 | 226 OHM D．IW 1\％0805 T／R | 4 | R116．R216．R191．R291 |
| A11360－39231 | $392 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 0885 T／R | 8 | R125，R180，R22，R226，R2日0，R23 |
|  |  |  | R102．R202 |
| A1136日－49901 | 499 DHM ． $1 \mathrm{~W} 1 \% 0805$ T／R | 4 | R103．R293，R137，R237 |
| A1136日－51111 | $5.11 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ B805 T／R | 5 | R113．R213．R175，R275，R315． |
|  |  |  | R415 |
| A11360－57621 | 57．6K．0．18W，1\％，CF | 4 | R190，R290，A20，R24 |
| A11368－EE121 | 68． $1 \mathrm{KOHM} \mathrm{D} 1 \mathrm{~W} 1 \$.$% CHIF 0805$ | 3 | R12．R115．R215 |
| A1136日－75月03 | 75 OHM ．25w $1 \% 1210$ T／R | 2 | R145，R245 |
| A1136日－82511 | Q． 25 KOHM .1 W ． $1 \%$ CHIP QBE5 | 5 | P5，R1日．R114．R214．R17 |
| A1136日－80711 | 日． $87 \mathrm{KCHM} .1 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | 1 | R6 |
| A1136日－90921 | 90．9K．0．10W 1\％MF 0日05 | 4 | R120，R220，R17日，R270． |
| A11369－102．J2 | Q81UF 50V $5 \%$ NPO MLC 0805 T | 2 | C134，［234 |
| A11369－270K2 | 27PF 50V 10\％NPO 0a0s T／R | 2 | C107．c207 |
| A113199－471K2 | 470PF 5QV $10 \%$ NPO gBU5 T／R | 2 | C110．c210 |
| Al1371－ERE2 | ®．OHM ． 125 W 5\％CHIP RES T／A | 2 | R323． 2423 |
| A11371－ER21 | 20HM ． $1 \mathrm{~W} 5 \%$ 日805 T／R． | 2 | F14．R15 |
| A11371－1011 | 100 OHM． 1 W 5\％0805 T／R | 3 | R13．R147，R247 |
| A11371－1622 | 1．KOHM ． 125 W 5\％CHIP RES T／R | 1 | R8 |
| A11371－1213 | 120 OHM．25W 5\％1210 T／R | 4 | R130，R144，R23日，R244 |
| A11371－1331 | $13 \mathrm{KOHM} .1 \mathrm{~W} 5 \%$ D805 T／R | 4 | R146．R1E1，R246．R261 |
| A11371－1561 | 15 OHM ． $1 \mathrm{~W} 5 \%$－8005 T／R | 2 | R160，R260 |
| A11371－1日11 | 1日6 OHM ．IW 5\％Be日5 T／R | 4 | R14日，R163．R24日，R263 |
| A11371－2223 | 2． 2 K 0.25 W 5\％121日 T／R | 2 | A132．R232 |
| A11371－2225 | 2． 2 K OHM 1W 5\％2512 T／R | 3 | A1．R2．R7 |

## INACTIVE

For Reference Use Only
Document Hes Been Replaced
LADWN INTERNATIDNAL INC． with a Newer Varsion


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | DTY | REFEAENCE DESIGNATION |
| A11371－2713 | 278 OHM ．25W 5\％ 1210 T／R | 2 | R322，R422 |
| A11371－3713 | 330 OHM ，25W 5\％1210 T／R | 2 | R19，R4 |
| A11371－3333 |  | B | R119，R219，R140．R143，R2＋R，R243 |
| A11371－3341 | 330 KOHM ． $1 \mathrm{~W} 5 \%$ ge05 T／R | 7 | R3，R11．R117．F217，R26．A314． |
|  |  |  | R414 |
| A11371－3923 | 3．9K．25W 5\％1210 T／R | 3 | F15，R135．R235 |
| A11371－3934 | 39K．SW 5\％2010 SMT T／R | 4 | R $317 . \mathrm{RJ1B.R417.R418}$ |
| A11371－4701 | RES， 47 OHM．1W 5\％CHIP O日B | 2 | R162．R252 |
| A11371－4724 | 4．7K OHM D． 5 W 5\％2018 T／R | 2 | R142．R242 |
| A11371－4751 | 4．7MEGOHM．0．18W 5\％MF 0805 | 5 | A29，R174，R192，R274，R292 |
| A11371－5R63 | 5， 5 OHM ． $25 \mathrm{~W} 5 \% 1210 \mathrm{~T} / \mathrm{R}$ | 4 | A150，P165， $2250, \mathrm{R} 265$ |
| A11371－5R65 | 5．－OHM 1W $5 \% 2512 \mathrm{~T} / \mathrm{A}$ | 2 | R420，R421 |
| A11371－6814 |  | 6 | R105．R128．R1日1，R205．R228． |
|  |  |  | R281 |
| A11371－6日21 | 6． EKOHM ． 1 W 5\％CHIP 0805 | 2 | R127，R227 |
| A 11371－7511 | 759 DMM．IW 5\％ 0885 T／A | 3 | F28，R133．R233 |
| A11371－8201 | 日2 OHM ． 1 W 5\％0日05 T／R | 4 | R194．R294，R136，R236 |
| A11371－8211 | B20 OHM． 1 W 5\％0805 T／R | 6 | F195．R295．R129．R141，R229． |
|  |  |  | R241 |
| A1137B－A050U | WIRE， 15 RED $3 / 16^{\prime \prime} \times 5 \times$ FAS | 1 | WP1 |
| A11379－C050U | WIRE， 16 ELU 3／16＂$\times 5 \times$ FLA | 1 | WP3 |
| A11427－103K2 | D1 UF 50V 10\％X7R MLC 0805 | 6 | C102．c105．c115．C202．C209．C215 |
| A11427－104K2 | IUF SEV CHIP［AP 10\％D日Q5 $x$ | 28 | C12．C139．C122．Ci26．c127． |
|  |  |  | C12日．C129．C130．C131．C132． |
|  |  |  | C133．5239， 5222.5226 .5227. |
|  |  |  | C22日． $2229.5230 . C 231 . C 232$. |
|  |  |  | ᄃ233．c24．ᄃ25．СБ，ᄃ7，c2，ᄃ28．［29 |
| A11427－123K2 | 012 50V 10\％x7R 0日05 T／R | 2 | Et12．c212 |
| A11427－272K2 | 2708PF 50V 18\％$\times 7 \mathrm{R}$ 8005 T／A | 2 | C117．C217 |
| A11427－472KZ | 4700PF 50V 10\％$\times 7$ R 0805 T／R | 4 | C116．C119．C21E．C219 |
| A12125－3140K | WIRE， 22 WHT $3 / 16 \times 14 \times$ FAST | 1 | WPE |
| C 2851－1 | RECTIFIER， 1 N40日4 SIL．ICON T／ | 7 | D1，D10，D2，D3，D4，DG，D7 |
| C 3510－2 | CHOKE．10\％AXIAL 470 UH TR | 4 | L10日．L101．L2日日，L201 |
| C 3549－0 | DIODE，ZENEA 10 V IN5249B T／R | 1 | DB |
| C 4477－3 | 470 UF 35V VERT | 2 | C4．C5 |
| C 5095－2 | MC7E155T＋15V．REG | 1 | UT |
| ᄃ 5096－8 | ML7 715 LT－15V．REG | 1 | U2 |
| ㄷ 5362－6 | 2．2UF 50V VERT ELECT T／A | 1 | C27 |
| C 7991－9 | 33 UF 5QV Z5U EHIP CAP | 3 | C22，C140，C240 |
| C 744日－1 | MM1T3984 CHIP NPN | 5 | 0100．0101．0129．0200．0281． |
|  |  |  | Q229 |
| E 7816－9 | VACTEL VTL5C2 OPTO－CELL | 2 | U100． 1200 |
| C 7947－2 | B＂CAELE TIE RED | 1 | B |
| C B26Z－5 | MC3307日D LOW NOISE DLSL OP A | 4 | U105． L 205.14 .45 |
| E 8426－6 | 1UF 250V 10\％MET POL．Y RADIA | 2 | C11日．c21日 |
| C 8576－6 | 100 LF 35V 10\％ALUM ELECT T／A | 1 | C26 |
| C 9012－3 | OP AMP．QUAD LD NOISE ME3307 | 2 | L101． L 201 |
| C 9038－8 | COMPARATOR．QLAD L．M339D S0－1 | 4 | U102． 1104.15202 .1204 |
| ［ 9157－6 | $100 U F$ 15V 20\％NP ELEC RAD T／ | 2 | C123．c223 |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document has Been Replaced with a Newer Varsion





| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 1 | 18213日－6 | PWE，CEIBRE／CEZBBE MAIN |  |
| 2 | 181016－1 | L日L，EARCODE，， |  |
| 3 | 125242－1 | CAP，625ID $\times 1$＂VINYL |  |
| E1 | 192466－1 | 10UF 250V 20\％RADIAL T／R | $\pm 1$ |
| C2 | A11427－104K2 | ． 1 LF 5 gV CHIP CAP 10\％0805 $\times 7 \mathrm{R}$ | F 1何 |
| ［．3 | 125508－1 | $10.50 \mathrm{SOV} 20 \%$ SMT AL ELEC T／R | 18 |
| C4 | ［ 4477－3 | 470 UF 35V VERT | G 10 |
| c5 | C 4477－3 | 470 UF 35V VERT | G 10 |
| CE | A11427－104K2 | 1 LF 50V CHIP CAP 10\％D日⿹5 $\times 7 \mathrm{~F}$ | H 10 |
| C7 | A11427－184K2 | ． $1 \mathrm{LF} 50 . \mathrm{CHIP} \mathrm{CAP} \mathrm{10} \mathrm{\%} \mathrm{Q日®5} \times 7 \mathrm{~F}$ | H10＊ |
| C12 | A11427－104K2 | ． 1 UF SQV CHIP CAP 10\％日BQ5 $\times 7 \mathrm{~F}$ | I 9 ＊ |
| C20 | D 8917－3 | 日20日LF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | G2DDLF 110 VDC ELECTROLYTIC | A 9 |
| C22 | C 7091－9 | 0.33 LF 50V Z5L LHIP CAP | N 9 ＊ |
| C24 | A11427－104K2 | ． 1 LF 58 V CHIP CAP 10\％ $0805 \times 7 \mathrm{~F}$ | N 18＊ |
| C25 | A11427－104K2 | ．1LF 50V EHIP CAP 18\％DBQ5 $\times 7 \mathrm{~A}$ | $09 *$ |
| C26 | C 8576－日 | 100UF 35V 10\％ALUM ELECT T／A | 19 |
| C27 | C 5362－6 | 2．2LF SQV VERT ELECT T／A | H 10 |
| C2日 | A11427－104K2 | 1UF 50V CHIP CAP 1A\％Q日25 $\times 7 \mathrm{~A}$ | 1 g |
| C29 | A11427－104K2 | 1UF 5BV CHIP EAP 10\％日日B5 X7R | 19 － |
| C161 | 162465－1 | Q．47LF 50V 20\％RADIAL T／R | M 9 |
| C182 | A11427－103K2 | 01 UF 50V $10 \% \times 7 \mathrm{~A}$ MLC 0日65 | M $9 *$ |
| C103 | 162467－1 | 22LF 25V 20\％RADIAL T／R | M 9 |
| C104 | 10243日－101×2 | 100PF．200V．．0805 | M 9 ＊ |
| Ci05 | C1020日－4 | 1日D．UF 25V 20\％RAD ELECT T／R | L 9 |
| ट106 | 182438－5E日k2 | 5EPF 2QEV 1日\％NPO Deß5 T／R | L 9 ＊ |
| C107 | At1369－270K2 | 27PF 5QV 1®\％NPD QBQ5 T／R | L 9 ＊ |
| C1炜 | 10243日－820K2 | 日2FF 200V 10\％NPG D日もS T／M | L 10 ${ }^{\text {U }}$ |
| ᄃ109 | A11427－103K2 | ． 01 UF 50V 10\％$\times 7 \mathrm{~A}$ MLC D日05 | H E＊ |
| C110 | Al1369－471k2 | 470PF 50V 10\％NPD 日日月5 T／R | M 7 ＊ |
| E111 | 102438－221k2 | 228PF 200V 10\％NPO d日0s T／R | NB |
| C112 | A11427－123K2 | 日i2 58V 18\％×7R 日805 T／A | 0 B |
| C113 | 18246日－1 | 47 L | N 8 |
| C114 | 10246日－1 | 47LF 10V 20\％NP FAD T／R | N 8 |
| C）15 | A）1427－103K2 | Q1 UF $5 \mathrm{LEV} 10 \% \times 7 \mathrm{M}$ MLC Q日Q5 | N |
| C116 | A1 $427-472 \mathrm{~K} 2$ | 4700PF 50V 10\％$\times 7 \mathrm{~F}$ 日B05 T／A | N 7 ＊ |
| C117 | A1；427－272K2 | 27日0PF 5日V t6\％$\times 7 \mathrm{R}$ 0805 T／R | I $9 *$ |
| C116 | C B426－6 | ． 1 UF 250V 10\％MET POLY RADIAL | 18 |
| C119 | A11427－472K2 | 4700PF 50V 10\％X7R 日BQ5 T／R | I B |
| C120 | 10243B－101K2 | 1 Ø日PF 20日V NPO 0日05 T／R | $17 *$ |
| C121 | 103191－1 | Q． 47 UF 50V Z5ড 129日 T／R | G $\mathrm{G}^{\prime}$ |
| ᄃ122 | A11427－104K2 | －1UF 5QV CHIP CAP 1日Y 日日冈5 X7R | F ${ }^{\text {\％}}$ |
| C123 | C 9157－6 | 10DUF 15V 20\％NP ELEC RAD T／R | G 9 |
| C124 | 103151－1 | 日．47LF 50V Z5U 1210 T／R | L 9 ＊ |
| C126 | A11427－104K2 | ，1UF 50V CHIP CAF 18\％D日日5 $\times 7 \mathrm{C}$ | N10＊ |
| C127 | A11427－104k2 | ．1UF 50V CHIP CAP 10\％0日⿹勹 $\times 7 \mathrm{R}$ | M 9 ＊ |
| C128 | A11427－104K2 | 1 LF 50V CHIP CAP 10\％D日05 $\times 7 \mathrm{R}$ | M 10＊ |
| C129 | A1 $1427-104 K 2$ | 1 UF 5QV CHIP CAP 10\％Q日B5 $\times 7 \mathrm{~F}$ | M 9＊ |
| E130 | A11427－184K2 | 1 LF 50V CHIP CAP 10\％0日E5 x7R | H B ＊ |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document Has Been Replaced mithandewer Yerspor



| PAPTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D2 | C 2851－1 | RECTIFIER，IN4084 5ILICON T／R | G 10 |
| D3 | C 2B51－1 | RECTIFIER，1N4EE4 SILICDN T／R | G10 |
| D4 | C 2851－1 | RECTIFIER，1N40D4 SILICON T／A | C 10 |
| D6 | C 2051－1 | RECTIFIER，IN4QO4 SILILON T／R | J 日 |
| D7 | C 2851－1 | RECTIFIER， 1 N40日4 SILICON T／R | J 旦 |
| D日 | C 3549－0 | DIODE，ZENER 10V 1 NS248日 T／R | J 8 |
| DS | C 92e3－0 | DIODE，1NS14／1N414日 SOT－23 SMT | $19 *$ |
| D1E | C 2日51－1 | RELTIFIER，1N4EE4 SILICDN T／A | 110 |
| D13 | C 9283－0 | DIODE． 1 NS $14 / 1 \mathrm{~N} 4148$ SOT－23 SMT | $19 *$ |
| D101 | C 9283－0 | DIQDE，1NS14／1N414日 SOT－23 SMT | N 9 |
| D102 | C 9283－6 | DIODE，1NS14／1N414日 SOT－23 SMT | M 9 |
| D123 | C 92a3－8 | DIODE，1NS14／1N4148 SOT－23 SMT | L 9 |
| D104 | C 9283－10 | DIODE．1N914／1N414日 SOT－23 SMT | L 9 ＊ |
| D105 | C 9283－0 | DIDDE．1N914／1N414日 SOT－23 SMT | L 10＊ |
| D106 | C 9283－0 | DIODE，1NS14／1N414日 SOT－23 SMT | N ${ }^{\text {B }}$ |
| D107 | C 9283－0 | DIODE， 1 NS 4 ／1／N414日 SOT－23 SMT | N ${ }^{\text {日 }}$ |
| D10日 | C 92日3－8 | DIODE，1NS14／1N414日 50T－23 SMT | N ${ }^{\text {N }}$ |
| D109 | C 92日3－8 | DIODE，1NS14／1N4148 50T－23 SMT | N旦 |
| D110 | C 9283－8 | DIODE，1NE14／1N4148 SOT－23 SMT | N日＊ |
| D111 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | NO＊ |
| D112 | C 3283－1 | DIODE． 1 NS14／1N4148 SOT－23 SMT | N N ＊ |
| D113 | C 9293－0 | DIODE， $1 \mathrm{NS} 14 / 1 \mathrm{~N} 414 \mathrm{E}$ SOT－23 SMT | N ${ }^{\text {¢ }}$ |
| D114 | E10422－1 | DIDDE．3A 400 V IN5404 AXIAL | 16 |
| D115 | C10422－1 | DIDDE．3A 400V 1NS404 AXIAL | 15 |
| D118 | C 9283－0 | DIODE，1NS14／1N414日 SOT－23 SMT | G 8＊ |
| D117 | C 9293－0 | DIODE，1NS14／1N414日 50T－23 SMT | M 10 |
| D11日 | ᄃ 9283－6 | DIODE， $1 \mathrm{NG14/1N414日} \mathrm{SOT-23} \mathrm{SMT}$ | N 10＊ |
| D119 | C 9283－0 | DIODE， 1 NG14／1N414日 SOT－23 SMT | $19 *$ |
| D120 | ᄃ 9283－0 | DIODE， 1 NG14／1N414日 SOT－23 SMT | $1{ }^{1}$＊ |
| D121 | ᄃ 3283－1 | DIDDE， 1 NS14／1N4148 SOT－23 SMT | L 9 ＊ |
| D122 | C 9283－8 | DIDDE， 1 NS $14 / 1$ N4148 SOT－23 SMT | M 18＊ |
| D123 | E 9283－8 | DIDDE，1N914／1N4148 50T－23 SMT | G 9 |
| D124 | ᄃ 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | G 7 |
| D125 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | H $7 *$ |
| D125 | C 3283－0 | DIODE．1NS14／1N414日 SOT－23 SMT | N 7 |
| D127 | 59283－8 | DIDDE， 1 NS14／1N414日 SOT－23 5MT | N 7 |
| D12日 | C 9283－0 | DIODE， 1 N914／1N4148 50T－23 SMT | H $7 *$ |
| D129 | ［ 9283－0 | DIDDE，1NS14／1N4148 50T－23 5MT | $67 *$ |
| D201 | C 9283－0 | DIODE． 1 NSI4／1N4148 50T－23 5MT | K 9 ＊ |
| D202 | C 92a3－0 | DIODE． 1 N914／1N414日 SOT－23 SMT | K 9 ＊ |
| D203 | C 9283－8 | DIODE． 1 N914／1N4148 SOT－23 SMT | J 5 ＊ |
| D204 | C 9283－8 | DIODE，1NS14／1N414日 SOT－23 SMT | J ${ }^{\text {J }}$ |
| D205 | C 9283－0 | DIODE．1NS14／1N414日 SOT－23 SMT | J 10＊ |
| D206 | C 9283－0 | DIODE，1N914／1N414日 50T－23 SMT | K 8 ＊ |
| D207 | C 9283－8 | DIQDE．1N914／1N4148 50T－23 SMT | K 日 |
| D20日 | C 9283－0 | DIDDE，1NS14／1N414日 SOT－23 SMT | K ${ }^{\text {¢ }}$ |
| D209 | C 9283－0 | DIDDE，INS14／1N414日 SOT－23 SMT | K 旦 |
| D210 | C 9283－8 | DIODE． 1 N914／1N414日 SOT－23 SMT | K ${ }^{\text {K }}$ |
| D211 | C 9283－0 | DIODE． 1 NS14／1N4148 SOT－23 5MT | K 0 ＊ |
| D212 | C 9283－8 | DIODE． 1 N914／1N4148 SOT－23 SMT | $\underline{L}$ |
| D213 | C 9283－8 | DIODE． 1 NS14／1N414日 SOT－23 SMT | L 8 |

## INACTIVE

For Reterence Use Only
ocumbint Has Goan Renplac
with a Nowor Versioth

[^1]| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC． |
| D214 | C10422－1 | DIODE，3A 400V IN5404 AXIAL | 13 |
| D215 | C10422－1 | DIODE．3A 4 UQV INS404 AXIAL | 12 |
| D215 | C 92日3－0 | DIODE， $1 N 914 / 1 N 4148$ SOT－23 SMT | $E$ B |
| D217 | C 52日3－0 | DIDDE， $1 \mathrm{NSI4/1N414日} \mathrm{SOT-23} \mathrm{SMT}$ | K 10＊ |
| D218 | ᄃ 9283－8 | DIODE， $1 \mathrm{NG14/1N414日} \mathrm{SOT-23} \mathrm{SMT}$ | L 10 ＊ |
| D221 | C 9283－8 | DIODE，1NS14／1N4148 SOT－23 SMT | J． 9 \％ |
| D222． | ᄃ 9283－8 | DIODE， $1 \mathrm{NS14/1N4148}$ SOT－23 SMT | K 18＊ |
| D223 | C 92日3－0 | DIODE，1NS14／9N414日 SOT－23 SMT | E9＊ |
| D224 | ᄃ 92e3－0 | DIODE，1N914／1N414日 SOT－23 SMT | E 7 |
| D225 | C 3283－6 | DIODE． 1 NSI4／1N4148 SOT－23 SMT | 个 7 ＊ |
| D228 | C 9283－2 | DIDDE． 1 NSI4／1N4148 SOT－23 5MT | K 7 |
| D227 | ¢ 9283－0 | DIODE．INS14／1N414日 SOT－23 SMT | $K 7$ |
| D228 | C 9283－6 | DIDDE．INS14／1N414B SOT－23 SMT | E 7 |
| D229 | ［ 9283－0 | DIDDE．1NG14／1N414日 SOT－23 SMT | F 7 \％ |
| E1 | 102476－1 | LED．SMT R／A GREEN | 11 |
| E100 | 102477－1 | LED．SMT R／A RED | 11 |
| E10 | 102476－1 | LED，SMT R／A GREEN | 1 1 |
| E102 | 102477－1 | LED．SMT R／A RED | K 1 |
| E200 | 102477－1 | LED．SMT A／A RED | M 1 |
| E261 | 102476－1 | LED．SMT A／A GREEN | 1 |
| E202 | 102477－1 | LED．SMT R／A RED | M 1 |
| HS 1 | 122575－1 | HS ASM．TZ NON－ISOLATED CH1． | L 6 |
| HS2 | 102575－1 | HS ASM．T2 NON－ISOLATED CH2． | L． 3 |
| HS 3 | 102573－1 | HS ASM．T2 ISOLATED CHP． | E 6 |
| HS 4 | 182574－1 | HS ASM．T2 ISOL．ATED EH2．． | 63 |
| HW1 | 182578－1 | SPACER， $5 \times$ C．250 LONG．AL | N 6 |
| HW2 | 102578－1 | SPACER． $6 \times 8.258$ LONG，AL | J 5 |
| HW3 | 182578－1 | SPACER， $5 \times 0.258$ LONG，AL | N 3 |
| HW4 | 10257日－1 | SPACER， $5 \times 0.258$ LONG，AL | 13 |
| HWS | 102578－1 | SPACER． $6 \times 0.250$ LONG．AL | 16 |
| HW6 | 10257日－1 | SPACER， $6 \times 0.250$ LDNG．AL | D 5 |
| HW7 | 102578－1 | SPACER， $5 \times 6.250$ LDNE，AL | 13 |
| HWB | 102578－1 | SPACER． $6 \times 8.250$ LONG，AL | D 3 |
| HWg | A10020－7 | 5－32 $\times 0.525$ PCG CAPTIVE STUD | N 6 |
| HW10 | A10020－7 | 6－32 $\times 0.625$ PCE CAPTIVE STUD | 15 |
| HW1 1 | A10020－7 | E－32 $\times 0.625$ PCE CAPTIVE STUD |  |
| HW1 2 | A10820－7 | 6－32 $\times 0.625$ PLEG CAPTIVE STUD | 3 l |
| HW13 | A10日z日－7 | 6．32 $\times 0.625$ PCE CAPTIVE STUD | 15 |
| HW14 | A1DD20－7 | 6－32 $\times 0.625$ PCE CAPTIVE STUD | D 5 |
| HW15 | A10020－7 | 6－32 $\times$ 日． 525 PCB CAPTIVE STUD | 13 |
| HW16 | A10028－7 | 6－32 $\times 0.625$ PCE CAPTIVE STUD |  |
| HW17 | A1 1055－1 | E－32 HEX NUT W／BELLEVILLE | N 6 |
| HW1旦 | A11056－1 | 6－32 HEX NUT W／EELLEVILLE | J 5 |
| HW19 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE |  |
| HW20 | A11050－1 | 6－32 HEX NUT W／GELLEVILLE | $J 3$ |
| HW21 | A11B5古－1 | E－32 HEX NUT W／EELLEVILLE | 16 |
| HW22 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | D 5 |
| HW23 | A1105E－1 | 6－32 HEX HIJT W／日ELLEVILLE | 13 |
| HW24 | A11055－1 | 6－32 HEX NUT W／日ELLEVILLE | D 3 |
| J2 | 101573－1 | HDA， 4 POS． 1 CTA MTA SHRD | E 10 |
| 13 | 102472－3 | 12POS．10RCTR ASSY SGL ROW | M B |

INACTIVE

| DPAun | TLM | 00－09－97 | $\text { - } 102140$ |  | $\begin{aligned} & \text { SHEET } 9 \\ & \text { CONT ON } \\ & \text { SMEET } \end{aligned}$ | （H） |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pros． |  | 390 D8 |  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 0200 | C $744 \mathrm{~B}-1$ | MMET 3504 CHIP NPN | $k 9$ |
| 0201 | C 744日－1 | MMBT3904 CHIP NPN | K 9 |
| 0202 | C．3931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | L9＊ |
| 0203 | 102483－1 | PNP 309V 500MA SOT－23 | 」 10 |
| 0204 | C 9252－5 | $2 N 3904$ 40V NPN TRhidSISTOR T／A | 13 |
| 0205 | 123193－1 | $50 T-223$ PNP ЗOUV 500MA 50MHZ | 18 |
| 0207 | 103192－1 | SOT－223 NPN 30VV 500MA 50MHZ | K 8 |
| 0208 | 102481－1 | NPN 25V LOW NOISE SOT－23 | K B |
| 0209 | ᄃ 9931－4 | MMET5E日7L T1 PNP XSISTOR SOT－23 | K B |
| 0210 | 103192－1 | 50T－223 NPN 30QV 500MA 50MHZ | J 2 |
| 0211 | C 9931－4 | MMBT5E87LT PNP XSISTOA SOT－23 | J 2 |
| 0212 |  | INSTALLED ON THE PREVIOUS ASSEMELY | 」 2 |
| 0214 |  | INSTALLED ON THE PREVIOLS ASSEMBLY | 」 3 |
| 0215 |  | INSTALLED ON THE PREVIOLS ASSEMELY | K 3 |
| 0216 |  | INSTALLED ON THE PREVIOUS ASSEMELY | L 3 |
| 0217 |  | INSTALLED ON THE PREVIOUS ASSEMALY | L 3 |
| 0218 |  | INSTALLED ON THE PREVIOUS ASSEMELY | M 3 |
| 0219 |  | INSTALLED ON THE PREVIOUS ASSEMELY | N 3 |
| 0220 | 103193－1 | SOT－223 PNP 30QV 500kA S0MHZ | D 2 ＊ |
| 0221 |  | INSTALLED ON THE PREVIOUS ASSEMELY | D 2 |
| 0223 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | E 3 |
| 0224 |  | INSTALLED ON THE PREVIOUS ASSEMEL．Y | E 3 |
| 0225 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | $F 3$ |
| 0228 |  | INSTALLED ON THE PREVIDUS ASSEMELY | 63 |
| 0227 |  | INSTALLED ON THE PREVIDLS ASSEMBLY | H3 |
| 0228 |  | INSTALLED ON THE PREVIDUS ASSEMELY | H 3 |
| Q229 | C 7448－1 | MMET 3904 EHIP NPN | E 9＊ |
| 0231 | 125186－1 | MACSD a AMP 40DV TAIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER，SBS EV THAESH | F B |
| 0233 | 1024日0－1 | MMBF4858LT1 FET 25V SOT－23 | 」 ${ }^{\text {－}}$ |
| R1 | A11371－2225 | 2． 2 K OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 〕 ${ }^{\text {® }}$ |
| R2 | A11371－2225 | 2． 2 K OHM IW $5 \% 2512 \mathrm{~T} / \mathrm{A}$ | 18 |
| R3 | A11371－3341 | $330 \mathrm{KDHM} .1 \mathrm{~W} 5 \%$ 0⿴囗⿱一土口 | $18 *$ |
| R4 | A11371－3313 | 33D QHM． 25 W 5\％ 1218 T／R | I 1 ＊ |
| R5 | A1136日－B2511 | E． $25 \mathrm{KOHM} \mathrm{D.1W} \mathrm{1} \mathrm{\%} \mathrm{EHIP} \mathrm{D日05}$ | 18＊ |
| RE | A1136日－86711 |  | D日＊ |
| R7 | A11371－2225 | 2．2K OHM IW 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | 」 8 ＊ |
| RB | A11371－1022 | 1K． 125 W 5\％CHIP RES $\mathrm{T} / \mathrm{R}$ | H9 |
| R9 | A1136B－10021 | 10K 1／10W 1\％SMD 8805 T／A | H9＊＊ |
| P10 | A11368－20023 | 20．KOHM． 25 W \％1 1210 T／R | H $3 *$ |
| F11 | A11371－3341 | З30KOHM Q． $1 \mathrm{~W} 5 \%$ CHIP QBQS | 19. |
| A12 | A1136日－68121 | 66．1 KOHM ©． 1 W $1 \%$ CHIP 0ag5 | 19 |
| R13 | A11371－1811 | 100 OHM ． $1 \mathrm{~W} 5 \% 0005 \mathrm{~T} / \mathrm{R}$ | t 10＊ |
| P14 | A11371－0R21 | 20HM．1W 5\％O日05 T／A | $110 *$ |
| R15 | A11371－DR21 | 20゙MM ．1W 5\％8805 T／R | $1{ }^{10}{ }^{\text {\％}}$ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％1210 T／R | N 9 |
| R17 | A1136日－日2511 | Q． 25 KOHM ．TW 1\％CHIP Q8Q5 | F 10 |
| R1日 | A1136日－62511 | 8． 25 KOHM ．IW 1\％CHIP 0005 | D 日＊ |
| R19 | A11371－3313 | 330 DHM，25w $5 \% 1210$ T／R | $11 *$ |
|  |  |  |  |

For Reference Use Only
Document thas Been Replaced with a Newer Varsion．

CROWN INTERNATIONAL INC


| DAAMN | TLM | 19－19－97 | $1 \square 214 \square$ | SHEET 11 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pros． | MD398de |  |  | CONT |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTIDN | MAP LDC． |
| R20 | A1136B－57621 | 57．6K． 0.10 W 1\％MF EPg5 | 13 |
| R21 | A11368－12121 | 12．1K，1W 1\％0e0．T／A | 19 |
| R22 | A1136B－39231 | $352 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 0日05 T／R | $19 *$ |
| R23 | A11368－39231 | 392 KOHM ． 1 W 1\％日日05 T／R | 19 |
| R24 | A11368－57621 | 57．EK．D．10W 1\％MF 0805 | 19 |
| R25 | A1136日－10031 | 100．KOHM ，IW $1 \%$ CMIP Qeds | N $9 *$ |
| R25 | A11371－3341 | 330 KOHM ．1W 5\％日B05 T／R | A 10＊ |
| R27 | A11368－10021 | 10K 1／10W 1\％SMD 0805 T／A | L $9 *$ |
| R28 | A11371－7511 | 750 OHM ．1W 5\％0日05 T／R | L 9 |
| R29 | A11371－4751 | 4．7MEGOHM，D．10W 5\％MF DE05 | ！ 9 ＊ |
| R100 | 102595－2 | 5K．．．DETENT | L 1 |
| A1at | A113E8－18821 | 10K 1／10W 1\％SMD B80S T／R | M 10＊ |
| R102 | A1135日－35231 | $392 \mathrm{KOHM} .1 \mathrm{~W} 1 \% \mathrm{CHIP} 2805$ | N $9 *$ |
| P193 | A1136日－49981 | 499 OHM ．1W 1\％0885 T／R | N ${ }^{\text {N }}$ |
| F104 | A1136日－10021 | 10K 1／10W 1\％SMD 0005 T／R | NS ${ }^{\text {a }}$ |
| R105 | A11371－6814 | 8日6 OHM ．5W 5\％2010 T／A | 11 |
| R106 | A11360－10011 | 1．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0 OES | M 9 ＊ |
| R107 | A1136日－10021 | 10K 1／18W 1\％SMD E日B5 T／R | L 10 ＊ |
| R18日 | A11368－10821 | 10K 1／10w $1 \%$ SMD 680.5 T／R | L 10 |
| P1 129 | A1136日－19122 | $19.1 \mathrm{KOHM} .125 \mathrm{~W} 1 \%$ CHIP RES | M 9 ＊ |
| R110 | A1136日－10011 | 1．KOHM．IW 1\％CHIP eans | L 9 ＊ |
| R111 | A1136日－10021 | 10K 1／10W 1\％SMD 0E05 T／R | L $\mathrm{L}^{*}$ |
| R112 | A1136日－19122 | $19.1 \mathrm{KOHM} .125 \mathrm{~W} 1 \%$ CHIP RES | L $9 *$ |
| R113 | A1136日－51111 | $5.11 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 日日g $5 \mathrm{~T} / \mathrm{R}$ | L 18 ＊ |
| R11 4 | A11358－82511 | 8． 25 KOHM ． 1 W 1\％CHIP 080S | L 10 ＊ |
| R115 | A1：36日－68121 | E8． 1 KOHM D． $1 \mathrm{~W} 1 \%$ EHIP DBD5 | L 10＊ |
| R116 | A11368－22601 | 226 OHM Q． 1 W 1\％O日R 5 T／R | M 9 ＊ |
| A117 | A11371－3341 | $330 \mathrm{KOHM} .1 \mathrm{~W} 5 \%$ 日®05 T／A | M9＊ |
| R119 | A11371－3933 | 33 KOHM ．25W 5\％1210 $\mathrm{T} / \mathrm{R}$ | M 9 |
| R120 | A1136B－90921 | 90． 3 K ，－10W 1\％MF 0805 | M 9 ＊ |
| R122 | A1136B－15831 | 158KDHM 1W 1\％0895 T／A | N 3 ＊ |
| R123 | A1135日－10831 | 100．KDHM ． 1 W 1\％CHIP 8805 | M $9 *$ |
| R124 | A11358－15831 | ！50KOHM ，1W i\％ 0805 T／R | M 5 ＊ |
| R125 | A11360－10031 | 100．KOHM．1W 1\％CHIP Deds | N 9 |
| R126 | A11368－39231 | $392 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 0日05 T／R | M 9 ＊ |
| R127 | A1 1371－6821 | 6．日KOHM．IW 5\％CHIP 0805 | N 9 ＊ |
| R128 | A1：371－6日14 | 6日0 DHM． 5 W 5\％20ib T／R | 11 |
| P129 | A11371－8211 | B20 OHM ． $1 \mathrm{~W} 5 \%$ 0日05 T／R | N7＊＊＊＊＊＊＊＊ |
| R130 |  | DO NDT INSTALL | 0日＊ |
| R131 |  | DO NOT INSTALL | 0 园 |
| R132 | A1137．1－2223 | 2．2K 0．25W 5\％1210 T／R | H $\mathrm{H}^{\prime}$ |
| R133 | A11371－7511 | 750 OHM ，1W 5\％日日05 T／R | HE＊ |
| R134 | C10513－5 | 1 KOHM TOP ADJUST TRIMMER T／A | M M |
| R135 | A11371－3523 | 3．SK． 25 W 5\％1210 T／R | M 7 ＊ |
| R136 | A11371－8201 | 82 OHM ，1W 5\％0日05 T／R | M $7 *$ |
| R137 | A11358－4990． | 499 OHM ．IW 1\％0日BS T／R | N B |
| R136 | Al1371－1213 | 120 OHM ． 25 W 5\％1210 T／A | N $\mathrm{N}^{\text {\％}}$ |
| R139 | A1136日－10703 | 107 OHM． $25 \mathrm{~W} 1 \% 1210 \mathrm{~T} / \mathrm{R}$ | N日 ${ }^{\text {¢ }}$ |
| R140 | A11371－3333 | 33 KOHM .25 W 5\％121日 T／A | N日＊ |

## INACTIVE

For Reference Use Only Docurment Has Been Replaced with e Newer version

| CROWN INTERNAT I ONAL INC． |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| dfamin | TLM | 98－09－97 | $1 \square 214 \square$ |  | $\begin{aligned} & \text { SHEET I2 } \\ & \text { CONT. ON } \\ & \text { SHEET I } \end{aligned}$ |  | HEV |
| PMOS． | m039908 |  |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R141 | A11371－8211 | 日20 OHM ．TW 5\％0805 T／R | O ${ }^{\text {日 }}$ |
| R142 | A11371－4724 | 4．7K OHM 0．5W 5\％2010 T／R | －8＊ |
| R143 | A11371－3333 | 33 KOHM ．25W 5\％1218 T／R | N |
| R144 | A11371－1213 | 120 OHM ．25W 5\％1210 T／R | N ${ }^{\text {¢ }}$ |
| R145 | A11368－75AE3 | 75 DHM． 25 W 5\％1210 T／R | N B |
| R146 | A11371－1331 | 13KOHM ． $1 \mathrm{~W} 5 \%$ 0日05 T／R | N 7 ＊ |
| R147 | A11371－1011 | 100 OHM ．1W 5\％0805 T／R | N 7 |
| R14日 | A11371－1日11 | 180 OHM ．IW 5\％0日05 T／R | M 7 |
| R15］ | A11371－5R53 | 5． $\mathrm{C}^{\text {OHM }}$ ． 25 W 5\％1210 T／R | N 7 ＊ |
| P152 | 103199－1 | 0．4．1W．5\％， 2512 | K 7 |
| R153 | 103199－1 | Q．4．1W，5\％， 2512 | $k 6$ |
| A154 | 103199－1 | B．4，1W．5\％， 2512 | L 7 ＊ |
| R155 | 103199－1 | Q．4．1W，5\％， 2512 | M 6 ＊ |
| R156 | 103199－1 | Q．4，1W，5\％， 2512 | M 7 |
| R157 | 103199－1 | 0．4．1w．5\％， 2512 | N 6 |
| P159 | A10266－2A74 | 2．7 OHM 2W 5\％CF T／R | I 日 |
| R159 | 103199－1 | 0．4．1W．5\％． 2512 | 17 |
| R160 | A11371－1501 | 15 DHM ． $1 \mathrm{~W} 5 \%$ 28B5 T／A | I 8 |
| R151 | A11371－1331 | 13 KDHM ． $1 \mathrm{~W} 5 \% 8805$ T／A | H 7 |
| R162 | A11371－4781 | RES． 47 DHM ． 1 W 5\％CHIP 0a05 | H7 |
| R153 | A11371－1811 | 180 OHM ．1W 5\％日805 T／R | 17 |
| P155 | A11371－5RE3 | 5．6 OHM ． 25 W 5\％ 1210 T／R | 15 |
| R167 | 183199－1 | Q．4．1W．5\％． 2512 | E 7 |
| R168 | 103199－1 | Q．4．1W．5\％． 2512 | F 6 |
| R16S | 183199－1 | Q．4．1W．5\％． 2512 | F 7 |
| R170 | 183199－1 | 0．4，1W，5\％， 2512 | G 5 ＊ |
| R171 | 103199－1 | 0．4．1W．5\％， 2512 | 57 |
| F172 | 103195－1 | B．4．1W，5\％， 2512 | H 6 |
| R174 | A11371－4751 | 4．7MEGOHM．0．10W 5\％MF 0805 | G |
| P175 | A11368－51111 | $5.11 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 0日05 T／R | G $\mathrm{B}^{*}$ |
| P176 | A11358－19821 | 10K 1／10W 1\％SMD 0日BS T／R | $\mathrm{E}^{\text {E }}$ |
| R177 | A11368－10021 | 10K 1／10W 1\％SMD D日es T／R | H |
| R178 | A11368－90921 | 90．9K．0．10w $1 \%$ MF 0805 | N 9 |
| R179 | A11358－10031 | 100．KOHM ． 1 W 1\％CHIP 0日05 | F 7 ＊ |
| R180 | A $113 \mathrm{BED}-39231$ | 392 KOHM ． 1 W 1\％0日0¢ $\mathrm{T}^{\text {T／R }}$ | G 日 |
| R181 | A11371－5814 | 6日0 DMM ． $5 \mathrm{~W} 5 \% 2010$ T／R | $J 1$ |
| R182 | A11368－10021 | 10K 1／10W 1\％SMD 0日0s T／R | F 日 ${ }^{\text {＊}}$ |
| R183 | A11368－10031 | 108．KOHM ． 1 W 1\％EHIP 0BE5 | F $\mathrm{F}^{*}$ |
| R184 | A11360－20023 | 20．0KOHM ．25W $1 \% 1210$ T／R | F 9 ＊ |
| R185 | A1136日－10021 | 10K 1／10W 1\％SMD 0日05 T／R | G 8＊ |
| R185 | A11358－10831 | 108．KOHM．1W 1\％CHIP 0B85 | N to＊ |
| f107 | A1136日－15031 | 158KOHM ． 1 W 1\％8日05 T／A | M 10＊ |
| R188 | A1136日－15831 | 15日KOHM，1W i\％U日05 T／A | M 10＊ |
| P109 | A1136日－1003！ | 100．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP DBQ5 | M10＊ |
| R． 198 | A11368－57621 | 57． 5 K． $1 \mathrm{~W} .1 \%$ CHIP | N 5 ＊ |
| P151 | A1136日－22601 | 225 OHM 0．1W 1\％0日05 T／R | N 6 |
| R132 | A11371－4751 | 4．7MEGOHM，0．10W 5\％MF 0B05 | L 9 ＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 1NACTIVE

For Reference Use Only

| CROWN I |  |  | NTERNAT IGNAL <br> ELKHART，INDIANA 48517 PHDNE |  |  | INC． <br> （219）294－6080 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DAAMN | TLM | 19－49－97 | DW |  |  | SH |  |  |
| PAOS． |  | 90D4 |  |  |  | SHE |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESERIPTION | MAP LDC． |
| \％24日 | A1：37：－1811 | 180 OHM ．1W 5\％ 0805 T／R | K 2 ＊ |
| R250］ | A11371－5A63 | 5．5 OHM ． 25 W 5\％1210 T／R | 32 |
| 9252 | 103199－1 | 0．4，1W，5\％， 2512 | $\times 4 *$ |
| R253 | 103199－1 | 0．4．1W，5\％， 2512 | K 3 |
| F254 | 103199－1 | Q．4．1W．5\％， 2512 | L $4 *$ |
| R255 | 103199－1 | D．4，1W，5\％． 2512 | M 3 |
| R256 | 103199－1 | Q．4，1W，5\％， 2512 | $\mathrm{N}_{4}$ |
| R257 | 183199－1 | 0．4．1W，5\％． 2512 | N3＊＊ |
| R25日 |  | DO NOT INSTALL | H 1 |
| R259 | 103199－1 | B．4，1W，5\％， 2512 | D $4 *$ |
| R260 | A11371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \%$ 日B05 T／R | D 1 ＊ |
| R251 | A11371－1331 | 13 KOHM ． $1 \mathrm{~W} 5 \%$ 日809 $\mathrm{T} / \mathrm{R}$ | E 2 ＊ |
| R252 | A11371－4781 | RES， 47 OHM ． 1 W 5\％CHIP D日®5 | E 2 |
| R2G3 | A11371－1811 | 180 OHM ． $1 \mathrm{~W} 5 \%$ 8日B5 T／A | E 2 ＊ |
| R265 | A11371－5R63 | 5．B OHM ． 25 W 5\％1218 T／R | E 2 |
| R267 | 103199－1 | Q．4．1W．5\％． 2512 | E $4 *$ |
| R2S日 | 103199－1 | Q．4，1W．5\％， 2512 | F 3 ＊ |
| R259 | 103199－1 | Q．4．1w，5\％， 2512 | F $4{ }^{*}$ |
| R278 | 103199－1 | 0．4，1W．5\％． 2512 | $63 *$ |
| R271 | 103193－1． | 0．4，1W，5\％， 2512 | $\mathrm{H}^{4}$＊ |
| R272 | 183199－1 | Q．4．1W，5\％， 2512 | H 3 ＊ |
| P274 | A11371－4751 | 4．7MEGOHM．Q．10W 5\％MF\％D日R5 | E B＊ |
| R275 | A1136日－51111 | $5.11 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ 080 5 T／R | E．${ }^{\text {E }}$ |
| R276 | A11368－10a21 | 10K 1／10w 1\％SMD 0805 T／R | E日＊ |
| R277 | A11368－10821 | 10K 1／10W 1\％SMD E日Q 5 T／R | E日＊ |
| R278 | A1．1368－90921 | 90．9K．0．10W 1\％MF 0805 | L ${ }^{\text {\％＊}}$ |
| R279 | A11368－10931 | $100 . \mathrm{KOHM}$ ． 1 W 1\％CHIP 0e05 | $E 7 *$ |
| R288 | A1136B－39231 | 392 KOHM ． $1 \mathrm{~W} 1 \%$ 0805 T／R | E ${ }^{\text {a }}$ |
| R28） | A11371－8814 | B日0 DMM， 5 W 5\％2010 T／R | M1＊ |
| F282 | A11368－10921 | 1aK 1／1aw $1 \%$ SMD UB0S T／R | D日＊ |
| R283 | A11 $768-18031$ | 100．KOHM ． 1 W 1\％EHIP E日QS | D B |
| R284 | A1136日－28023 | 2日．RKOHM．25w $1 \% 1210$ T／R | F $\mathrm{S}^{\prime}$ |
| R265 | A1136B－10021 | 10K 1／10W 1\％SMD De日5 T／R | F ${ }^{\text {\％}}$ |
| R286 | A11368－10031 | 1日6．KOHM ．IW 1\％CHIP O8E5 | L 10＊ |
| R287 | A1136日－15831 | 158KOHM ． $1 \mathrm{~W} 1 \%$ O805 T／R | K 10＊ |
| R2Ba | A1135日－15831 | 158KOHM ．IW 1\％ 8885 T／9 | K 10＊ |
| R209 | A1136日－18031 | 100．KOMM．1 W $1 \%$ CHIP 0805 | K 10＊ |
| R29a | A11368－57621 | 57． 5 K .1 tw ． $1 \%$ LHIP | N 3 ＊ |
| R291 | A11388－22601 | 226 DHM 0．1W 1\％0BQ5 T／R | N3＊ |
| R292 | A11371－4751 | 4．7MEGOHM，Ø．10W 5\％MF 日BD5 | J $9 *$ |
| F293 | A11368－10821 | 10K 1／10W 1\％5MD 0005 T／R | K 9 ＊ |
| R294 | A11371－8281 | 82 OHM． $1 \mathrm{~W} 5 \% 8085 \mathrm{~T} / \mathrm{R}$ | J 7 ＊ |
| R295 | A11371－8211 | 日20 OHM ．IW 5\％ 0885 T／R | 」 7 |
| ค359 | 103199－1 | 0．4．1W．5\％． 2512 | D 7 ＊ |
| R301 | 103199－1 | 0．4．1W，5\％， 2512 | J 7 ＊ |
| 8302 | 103199－1 | 0．4．1W．5\％， 2512 | K 6 |
| R303 | 103199－1 | Q．4．1W，5\％． 2512 | L 7 ＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document has Been Replaced vath a Nawer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC． |
| U5 | C 8262－5 | MC3307日D LDW NDISE DLAL OP AMP | N 9 |
| U1x | C．9918－1 | TO220 VERT CLIP－DN HEATSINK | H 10 |
| U2X | C 9918－1 | TO228 VERT CLIP－ON HEATSINK | H9 |
| U100 | C 7816－9 | VACTEC VTLSC2 OPTO－CELL | M 9 |
| L101 | C 9012－3 | OP AMP，QUAD LO NDISE MC33D79D | M 10 |
| 4102 | ᄃ 9038－8 | COMPARATOR，QUAD LM339D ¢0－14 | N S |
| 4104 | C 9038－8 | COMPARATOR，QUAD LM339D 50－14 |  |
| 1105 | C 1262－5 | MC33078D LOW NOISE DUAL OP AMP | F 7 |
| U186 | H42902－3 | ASM．THEAMAL SENSE | N 6 |
| U200 | C 7816－9 | VACTEC VTLSE2 OPTO－EELL | － 9 |
| U28： | C 9012－3 | OP AMP，DUAD LO NDISE MC33079D | 510 |
| 4202 | c 9830－8 | COMPARATOA，QUAD LM339D SD－14 | K 9 |
| 4204 | C 9038－星 | COMPARATOR．QUAD LM339D SD－14 | E 7 |
| 1285 | C 8262－5 | ML33日7BD LDW NQISE DUAL OP AMP |  |
| 4208 | H42902－9 | ASM，THERMAL SENSE | ${ }^{+} 3$ |
| WP1 | A1137日－AB58U |  | A 18 |
| WP2 | 103331－N050R | WIPE， 14 ELK／WHT 3／16 $\times 5.0 \times$ TAB | A 10 |
| WP3 | A11373－C0504 | WIRE， 15 日LU 3／16＂$\times 5 \times$ FLAG | A 19 |
| WP4 | 101031－1 | D． 259 FASTON．ALTO INSEATABLE | D 7 |
| WP5 | 101231－1 | O． 250 FASTON．ALJTD INSEPTABLE | D 4 |
| WPG | A12125－3140K | WIAE， 22 WHT 3／16X14 $\times$ FAST | ${ }^{5} \mathrm{~B}$ |
| 21 |  | AEFERENCE FDR SOLDER PAD LDCATION | E 9 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

TNACTIVE
For Reference Use Only
Document Has Been Replaced
CROWN INTERNATIUNAL INC


## Component Map

for use with
Main PWA \#102140-6



| E．t． | ZONE | $\begin{array}{\|c\|} \hline \text { REV. } \\ \hline \mathrm{A} \\ \hline \end{array}$ | DESCRIPTION | date | 日Y | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | CHK | ME | EE | PE |
|  |  |  | PRODUCTION RELEASE（LEVEL I） | 9－24－98 | JFL | KLW |  |  | Ts |
| 98E878： |  | 日 | DELETED NOTE 3．CHANGED NDTE 18．ADDED NOTES 14．15．ADDED $127023-1$ C606．C607 WERE D． 1 NF．J5BQ．J60日 WERE $1253655^{-1}$ L1日Q．L1日1，L2R日．L2日1 WERE C 351日－7．RE WAS 8． 87 K ．R1日 WAS B． 25 K ．R29 WAS 4.7 M ． 51 日G WAS LISTED AS DPDT．U1DE．UZDE WERE 102723－1． | t 2／14／98 |  | Mot |  |  | $9$ |

## NOTES：

1．SCHEMATIC DRAWING NUMEER 102142．
2．PWE PART NUMEER 102138－B，
3．the pwa shall meet the ifc－a－Eid＿class 2 standards．
4．ALL LEADS Shall be trimmed to 0．093＂of LES5．
5．POSITION COMPONENTS AS SHOWN ON COMPDNENT MAP
B．COMPONENTS THAT hAVE（＊）after their map location
ARE MDUNTED ON THE BDTTOM SIDE OF THE PRINTED CIRCUIT BQARD．
7．REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES．
日．THE VENT HDLE ON TDP DF THE RELAYS K10ø AND K200 MUST 日E DPENED after the cleaning process．by either removing the sealine tape
OR CUTTING DFF THE CIRCULAR TAB WITH AN＂EXACTO＂KNIFE DR SIMLLAR
CUTTING tODL．WARNING．THIS STEP MUST 日E dONE AFTEA THE CLEANING
PROCESS NOT 日EFORE！！！WATER OR CLEANING SOLVENTS ENTERING THE
relay vent hole will damage the relay
9．CONNECT THE WIRES THAT COME FROM 0123 AND 0223
TO WP4 AND WPS RESPECTFULLY．
10．the pwa part number for this module shall be marked on the P．C．BOARD AND SHALL EE PERMANENT
11．Installation of 4106 and 4206 is as follows：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOA H42902－9
118．BEND TRANSISTOR AT 90 DEG．FLAT SIDE DOWN
11C．PLACE tRANSIStDR into the pwe as Shown on the component map detail b．
11D．MIX OUTPUT EPOXY AND ACCELERATOR TOGETHER apply the mixture to the thansistor and heatsink． the mixture must fill the heatsink hole and the leads of the device．espectacly the center lead． （NOTE：NO VISible air gaps around the transistor AND THE TRANSISTOR LEADS CANNOT TOUCH THE HEATSINK）
1iE．hold the transistor against the heatsink until epoxy sets－lip
12．TDRQUE 6－32 HEX NUTS \｛CPN A11E5E－1）AS FOLLOWS：
12A．PRE－WAVE TOROUE OF 4－6 INCH LBS．
12日．POST－WAVE AND WHEN ASSEmbly has cooled down to handling TEMPERATURE TOROUE DF 13－15 INCH L．BS
13．INSTALL J3 CONNECTOR A5 SHOWN ON COMPONENT MAP
14．LABEL INPUT PWA WITH CPN 12EBE3－1 ON COMPONENT SIDE．
15．APPLY GENERDUS LOAT DF 127023－1 DVERCOAT TO PARTS C121．C124．C221．C224． COVER ADJACENT PARTS．


INACTIVE
For Reference Use Only

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY DF CAOWN INTERNATIONAL，INC．AND SHALL NDT EE AEPAODUCED．COPIED．OR USED A5 THE 日ASIS FOA THE MANUFACTURE OR SALE DF APPARATUS QR DEVIEES WITHOUT PERMISSION．

| PAINTS TO |  | CROWN I <br> 1718 WEST MISHAWAKA ROAD |  |  | NTERNATIONAL <br> elkhatt．indiana 45517 phone |  |  |  |  | INC． <br> 12191 294－8000 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
| K |  | PWA，MAIN／INPUT CE200】 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | drawn | JFL | 9－24－98 | APPROVED EY： |  |  | do not scale print |  |  |  |
|  |  | checked | KLW | 09／24／98 | ME |  |  | SuPERSEDES |  |  |  |
|  |  | 5cale | NONE |  | EE |  |  | E．C． |  |  |  |
|  |  | ProJ \＃ |  | 9sade | PE | TS | 09／23／98 | $\begin{gathered} \text { DWG. NO. SHEET: OF } 20 \\ 10214 日-B \end{gathered}$ |  |  | (B) |
|  |  | FILENAME：102140－8＿A．PCB |  |  | NEXT ASM： |  |  |  |  |  |  |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N | DESCRIPTION | QTY | REFERENCE DESIGNATIDN |
| A10日20－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | 8 | HW9．HW1 ${ }^{\text {d．HW1 1，HW1 2，HW1 3，HW1 4．}}$ |
|  |  |  | HW15．HW18 |
| A10265－19121 | 19．1K 0．25W 1\％MF | 2 | R112．R212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | ค15日 |
| A10434－104」D | 0.1 MF 250V 5\％MTL PQLY | 2 | こ1星，ट218 |
| A11056－1 | 6－32 HEX NLT W／GELLEVILLE | 8 | HW17．HW18．HW1 G．HW2D．HW2 1． |
|  |  |  | HW22．HW23．HW2 4 |
| A11368－10011 | 1 K 日． $18 \mathrm{~W} 1 \% \mathrm{CHIP}$ 日805 | 8 | R101．R1日6，R110．R201．R206． |
|  |  |  | R210．R316．R416 |
| A11368－10021 | 10K 1／10W 1\％CHIP 0805 | 34 | R9，R27．R104．R107，R1日6，R111． |
|  |  |  | R121．R176，R177．R182．A185． |
|  |  |  | R193．R204，R211，R221，R276． |
|  |  |  | R277．R282，R285，R293．R313． |
|  |  |  | R413．R500． R 501 ，R502．R503． |
|  |  |  | R504．R506，R600，R601，R602． |
|  |  |  | R603．R804，R606 |
| A11368－10031 | 100K ロ．1W 1\％LHIP DB05 | 15 | R25，R30，R31，R123，R125，R179． |
|  |  |  | R183．R186，R189，R223．R225． |
|  |  |  | R279，R2日3．R285，R289 |
| A11368－1 D221 | 10．2K 0．10W 1\％CHIP 0805 | 2 | R118．R21日 |
| A11368－10703 | 107 OHM 0．25W $1 \%$ CHIP | 2 | R139．R239 |
| A11368－12121 | 12.1 K OHM 0．10W $1 \%$ CHIF 0805 | 1 | R21 |
| A11368－15日31 | 158K 0．10W 1\％CHIP 0日05 | 8 | R122，R124，R187，R188，R222， |
|  |  |  | R224．R287，R288 |
| A11368－19122 | 13．1K $0.125 \mathrm{~W} 1 \% \mathrm{CHIP} 1206$ | 2 | R109．R209 |
| A11368－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10，R184，R2日4 |
| A11368－22601 | 226 OHM 0．10W 1\％CHIP 0805 | 4 | R116．R191，R216，R291 |
| A11358～39231 | 392K 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 8 | R22，R23．R102．R125．R180．R202． |
|  |  |  | R226．R280 |
| A11368－49901 | 499 OHM 0．10W 1\％CHIP 0805 | 4 | R103．R137．R203．R237 |
| A11368－51111 | 5.11 K OHM 0．10W 1\％LHIP D805 | 6 | R113．R175，R213．R275．R315，R415 |
| A11368－57621 | 57．6K 0．10W 1\％CHIP 0805 | 4 | R20，R24，R190，R290 |
| A1 1368－69：21 | 68．1× 0．10W 1\％CHIP | 3 | R12．R115．R215 |
| A1136日－71511 | 7．15K 8．1W 1\％CHIP 0805 | 1 | R18 |
| A1 1368－75R83 | 75 OHM ロ．25W 1\％CHIP 1210 | 2 | R145．R245 |
| A1136日－76811 | 7．6日KOHM 日． $10 \mathrm{~W} 1 \%$ SMT 0805 | 1 | R5 |
| A1 1368－82511 | 日． 25 K B． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 3 | R17．R114，R214 |
| A1 136B－90921 | 90．9K 0．10W 1\％CHIP 0日0 5 | 4 | R120．R17B．R220，R278 |
| A1 136B－93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R6 |
| A11369－102J2 | 0．DO1UF 50V 5\％NPO MLC 0805 | 2 | C134，C234 |
| A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0日05 T／R | 6 | ［500， $5501.5502 .5600,5601, ~ c 602 ~$ |
| A11369－270K2 | 27PF 5BV 10\％NPO B905 T／R | 2 | C107，C207 |
| A11369－330J2 | 33PF 50V 5\％NPO MLC 0日85 | 2 | C142．C242 |
| A11369－471K2 | 470PF 50V 10\％NPO 0805 T／A | 4 | C110．ci41．C21日．C241 |
| A11371－0R02 | 0．0 OHM JUMPER CHIP 1206 | 2 | R323．R423 |
| A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 8B05 | 2 | R14．R15 |
| A11371－1011 | 100 OHM ®． $10 \mathrm{~W} 5 \%$ CHIP 0805 | 3 | R13．R147．R247 |
| A11371－1013 | 100 OHM ． $25 \mathrm{~W} 5 \% 1210$ SMT T／R | 2 | R322．R422 |
| A1 1371－1022 | 1 K 日． $125 \mathrm{~W} 5 \%$ CHIP 1206 | 1 | R8 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R13日．R144．R238．R244 |

## INACTIVE

For Reference Use Only



## INACTIVE

For Reference Use Only

## PARTS LIST

| 5 T |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATIDN |
| C S038－8 | COMPARATOR，QUAD LM339D S0－1 | 4 | ப102．U104．U202，ப204 |
| C 9157－6 | 1 DQUF $15 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC AAD T／ | 2 | C123．5223 |
| C 3252－5 | 2N3904 40V NPN TRANSISTOR | 2 | Q104，Q204 |
| C 9283－0 | DIODE，1N914／1N4148 SOT－23 S | 54 | D9，D13．D1®1，D102，D103．D184， |
|  |  |  | D105．D106，D107．D108．D109， |
|  |  |  | D110．D111．D112．D113．D116． |
|  |  |  | D117．D11日．D119．D120．D121． |
|  |  |  | D122，D1 23．D124，D1 25．D126． |
|  |  |  | D127．D1 28，D129，D201．D202． |
|  |  |  | D203．D204．D205．D206．D207． |
|  |  |  | D208．D209．D210．D211．D212． |
|  |  |  | D213．D216．D217．D218．D221． |
|  |  |  | D222．D223．D224．D225，D226． |
|  |  |  | D227．D228，D229 |
| C 9896－9 | TEST POINT LOOP | 2 | TP3日．TP39 |
| C 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | ப1 $\times$ ，U2X |
| C 9931－4 | MMET5087LTi PNP XSISTOR SOT－ | 6 | 0102．0109．0111．0202，0209．0211 |
| C10208－4 | 10 O MF 25V $20 \%$ VERT ELEC | 2 | C185，C205 |
| C10422－1 | DIDDE，3A 400V 1 N 5404 AXIAL | 4 | D114，D115，D214，D215 |
| C10613－5 | 1 K TOP ADJLST TRIMMER T／R | 2 | R134，R234 |
| D 9917－3 | 日200LF 110VDC ELECTROLYTIC | 2 | C20．c21 |
| H42902－9 | ASM，THERMAL SENSE | 2 | Uイロ6． 1205 |
| 5 5700－0 | 732 RTV RUE日ER 10.3 OZ CLEAR | 0 | 4 |
| 101016－1 | L日L，BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON．AUTO INSERTA日LE | 3 | WP 4，WP5，WP7 |
| 101571－1 | HDA 2 POS ． 1 CTR MTA SHRD | 1 | 」 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK．6P4 COND MODULAR R／A | 1 | J 5 |
| 102138－8 | PWE．CE100ロ／CE200日 MAIN／INPU | 1 | 1 |
| 102438－101K2 | 100 PF 200V 10\％NPO 0B05 | 6 | C104．C120．ट135．ट204．C220．C235 |
| 102438－221k2 | 220PF 200V 10\％NPO 0805 | 2 | C111．C211 |
| 10243日－560k2 | 56PF 200V 10\％NPD 08D5 | 4 | C106．С206， 5504.5604 |
| 102438－日20k2 | 82PF 208V $10 \%$ NPO 9805 | 4 | C10日，ᄃ138．ᄃ208，С238 |
| 102485－1 | 47UF 50V 20\％RADIAL T／R | 2 | C101．c201 |
| 102466－1 | 1 UUF $250 \mathrm{~V} 20 \%$ RADIAL T／R | 1 | C1 |
| 102467－1 | 22MF 25V 20\％RAD T／R | 4 | С103．С203．5503．С603 |
| 102458－1 | 47 UF 1日V $20 \% \mathrm{NP}$ RAD T／R | 4 | C113．C114．C213．C214 |
| 102470－1 | INDULTOR， 2.75 LH 11 A RADIAL | 2 | L182．L202 |
| 102471－2 | HDR，12POS 2．5MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，16POS ． 180 CTR SGL ROW | 1 | J 3 |
| 102473－1 | SPEAKON． 4 POLE PCB HDRZ | 2 | 」100．」200 |
| 102475－1 | BLOCK， 5 POS TERMINAL | 1 | TE1 |
| 102476－1 | LED．SMT R／A GREEN | 3 | E1．E101．E201 |
| 102477－1 | LED．SMT R／A RED | 4 | E100，E102，E200，E202 |
| 102478－1 | TRIAC DRIVER S日S 日V THRESH | 2 | Q132，Q232 |
| 102479－1 | PWR MJD112 NPN DARLINGTON 10 | 2 | Q1．02 |
| 1024日0－1 | FET．N－CH 25V 50MA SOT－23 | 2 | Q133，Q233 |
| 102481－1 | NPN 25V LOW NOISE SOT－23 | 2 | Q108． 0208 |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| 102483－1 | PNP 300V 500MA S0T－23 | 2 | Q103．0203 |
| 102485－1 | OPTO BJT NPN SOIC－B CTR $=100$ | 1 | $\cup 3$ |
| 102488－1 | SPDT VERT SLIDE 12 MM SHAFT | 1 | S100 |
| 102573－3 | HS ASM，T2 ISOLATED EH1， | 1 | HS3 |
| 102574－3 | HS ASM．T2 ISOLATED CH2．． | 1 | HS 4 |
| 102575－3 | HS ASM．T2 NON－ISOLATED CH1． | 1 | HS 1 |
| 102576－3 | HS ASM，T2 NON－ISOLATED LH2， | 1 | H52 |
| 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANODIZ | B | HW1．HW2．HW3，HW4，HW5．HW6，HW7． |
|  |  |  | HWB |
| 102579－1 | STAND． $1 / 4$ RD SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT，5K LIN 21 DNT 12MM HORI | 2 | R100．R200 |
| 102723－2 | OPTO CELL ON＝50日 OHM | 2 | ப100． 1200 |
| 103180－1 | BUMPER，0．4＂TALL BLK W／ADH | 3 | 7 |
| 103191－1 | D．47UF Z5U $121020 \%$ 50V | 4 | C121．C124．C221．C224 |
| 103192－1 | NPN 30BV 500MA 50MHZ SOT－223 | 4 | Q107．0110．0207．0210 |
| 103193－1 | PNP 300V 50日MA 50MHZ SOT－223 | 4 | Q105．0120．0205．0220 |
| 103199－1 | D． 4 DHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T}$／R | 52 | R152．R153，R154，R155．R156． |
|  |  |  | A157，R159，R167，R16B．R189， |
|  |  |  | R170，R171，R172，R252，R253． |
|  |  |  | R254，R255，R256，R257，R259， |
|  |  |  | R267，R268，R269，R270，R271． |
|  |  |  | R272，R300，R301，R302，R303， |
|  |  |  | R304，R305，R306，R307，R30日， |
|  |  |  | R309，R310，R311，R312．R400， |
|  |  |  | R401， $\mathrm{R} 402, \mathrm{R} 403, \mathrm{R} 404 . \mathrm{R} 405$. |
|  |  |  | R406，R407．R408，R409，R41日， |
|  |  |  | R411．R412 |
| 103210－1 | 2．2LF 160 V RADIAL T／R | 4 | С136，С137．С236，С237 |
| 103331－N050R | WIRE． 16 日LK／WHT TAB $\times 5 \times$ T | 1 | WP2 |
| 103415－7060日 | SCREW．6－32 $\times .5$ TOAX PNHD SEM | 2 | HW27，HW2日 |
| 125106－1 | MAC9D 8 AMP 400V TRIAC | 2 | Q131．0231 |
| 125242－1 | CAP，625ID $\times$ i $^{\prime \prime}$ VINYL | 1 | 3 |
| 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 1254日3－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | $\square$ | 6 |
| 126929－1 | 1／4＂TAS／XLR COMEO PCB VERT | 2 | J500．JE00 |
| 125508－1 | 1 UUF 50VDC ELECTROLYTIC SMD | 2 | ᄃ3． 530 |
| 126317－1 | REL．30A 24V SPST PCB W／FAST | 2 | K100．K200 |
| 126325－1 | DPDT MINI SLIDE NON－SHORT PC． | 1 | 51 |
| 127023－1 | QVERCOAT PEN | 0 | 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| C1 | 1日24E5－1 | 10UF 250V 20\％RADIAL T／R | 」 8 |
| C2 | A11427－104×2 | 0.1 MF 50V $10 \% 0005$ | F $9^{*}$ |
| C3 | 125508－1 | 10 LF 50VDC ELECTROLYTIC SMD | 1 日 |
| ᄃ4 | C 4477－3 | 470 MF 35V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35 V VERT | G 9 |
| C6 | A1 1427－104K2 | 0． 1 MF 50V 10\％0805 | H 10＊ |
| C7 | A1 1427－1日4K2 | 0． 1 MF 50V 10\％0805 | H 9＊ |
| C． 12 | A 11427－104K2 | 0． 1 MF 50V 10\％0805 | I 9＊ |
| C20 | D 8917－3 | B200UF 1／日VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 8200UF 110 VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | 0.33 MF 50 C CHIP 120 E | N $9^{*}$ |
| C24 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N S $^{*}$ |
| ᄃ25 | A11427－104K2 | D． 1 MF 50V 10\％0805 | $0 \mathrm{~g}^{*}$ |
| C26 | C 日576－B | $10 \square \mathrm{MF} \mathrm{35V} \mathrm{10} \mathrm{\%} \mathrm{ELEC}$ | I 9 |
| C27 | C 5362－6 | 2．2 MF 50V VERT | H 10 |
| C2日 | A）1427－104K2 | D． 1 MF 50V 10\％0BD5 | 」 $9^{*}$ |
| C29 | A11427－104K2 | 0．1 MF 50V 10\％08B5 | I ${ }^{*}$ |
| C38 | 125508－1 |  | 18 |
| C31 | C 3679－5 | 33LF $50 \mathrm{~V} 20 \%$ VERT ELECT | I 10 |
| C101 | 102465－1 | 47UF 50V $20 \%$ RADIAL T／R | M 9 |
| c102 | A11427－183K2 | D． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0B05 | M 9＊ |
| C103 | 102457－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | M 9 |
| C184 | 102438－101k2 | 100PF 200V 10\％NPO 0805 | M \％$^{*}$ |
| C．185 | 1．10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－560K2 | 5SPF 200V 10\％NPO 0805 | L． $9^{*}$ |
| C107 | A11369－270K2 | 27PF 50 V 10\％NPO 0B05 T／R | L 9＊ |
| C128 | 10243日－820k2 | 日2PF 200V 10\％NPO 0805 | L 10＊ |
| C109 | A11427－183K2 | D． 01 MF 50 V 10\％CHIP 0日®5 | H 6＊ |
| C110 | A 11369－471k2 | $470 P F 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T}$ TR | M 7 ＊ |
| C111 | 102438－221k2 | 220PF 200V 10\％NPO 0805 | N 8＊＊ |
| C1：2 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP}$ | $08^{*}$ |
| C113 | 102458－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C114 | 102458－1 | 47UF 18V 20\％NP RAD T／R | N 8 |
| C115 | A 1 1427－103K2 | D．D1MF 50V 10\％CHIP 0805 | N 8＊＊ |
| C118 | At 1427－472K2 | 470日PF 50V 10\％$\times 7 \mathrm{R}$ 0805 | N 7＊ |
| C117 | A11427－272k2 | 270日PF 58V 10\％CHIP 0805 | 17 ＊ |
| C118 | A10434－104JD | Q． $1 \mathrm{MF} 250 \mathrm{~V} 5 \% \mathrm{MTL}$ POLY | I 8 |
| C119 | A1 1427－472K2 | 4700FF 50V $10 \% \times 7$ ¢ 0805 | I 7＊ |
| C120 | 10243日－101K2 | 1日ロPF 2日ロV 10\％NPO 0日05 | I 7＊ |
| C121 | 103191－1 | 0.47 LF Z5U $121020 \% 50 \mathrm{~V}$ | G $日 ⿴^{*}$ |
| C122 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | F 8＊ |
| C123 | C 9157－6 | 10QUF 15 V 20\％NP ELEC RAD T／R | F 8 |
| C124 | 103191－1 | 0.47 LF Z5U 1210 20\％50V | L 9＊ |
| C126 | A11427－104K2 | 0．1 MF 50V 10\％0805 | N 10＊ |
| C127 | A11427－104K2 | Ø． 1 MF 50V 10\％0805 | N 9＊ |
| C128 | A11427－104K2 | 0.1 MF 50V 10\％0805 | M 10＊ |
| C129 | A11427－104×2 | D． 1 MF 50V 10\％0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| ［130 | A11427－104K2 | $0.1 \mathrm{MF} 58 \mathrm{~V} 10 \% 8805$ | H 8＊＊ |
| C131 | A1 1427－104K2 | D． 1 MF 50V 10\％0805 | H 7＊ |
| C． 132 | A11427－104K2 | ロ． $1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{ロBQ5}$ | F 7＊ |
| ［133 | A11427－104K2 | D． 1 MF 50V 10\％D885 | F 日＊ |
| C134 | A1 1389－102J2 | $0.001 \mathrm{~F} 50 \mathrm{~V} 5 \% \mathrm{NPO}$ MLC 0805 T／ | M 7＊ |
| C135 | 102438－101K2 | 100 PF 20 V 10\％NPO 0日05 | N 7＊ |
| E136 | 103210－1 | 2．2LF 1E日V RADIAL T／R | 17 |
| ᄃ137 | 103210－1 | 2． 2 LFF 160 V RADIAL T／R | I 7 |
| C138 | 10243日－820K2 | B2PF 200V 10\％NPO 8日85 | M 7 ＊ |
| C139 | A11427－104K2 | 0.1 MF 50 V 10\％DB05 | G 7＊ |
| C140 | C 7091－9 | 0．33 MF 50V CHIP 1206 | L 9 |
| C141 | A11389－471K2 | 470FF 50V 10\％NPO 0805 T／R | N 10 |
| C142 | A1 1369－330J2 | 33PF 50V 5\％NPO MLC 8805 | M 10 |
| C201 | 102465－1 | 47UF 50V $20 \%$ RADIAL T／R | J 9 |
| C202 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0日05 | K $9^{*}$ |
| ［203 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | K 9 |
| C204 | 102438－101k2 | 10日PF 200V 10\％NPO 0805 | 」 9＊ |
| C205 | ［10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC |  |
| ᄃ206 | 102438－560k2 | 56PF 20ロV 10\％NPO 0805 | 」 $9^{*}$ |
| c207 | A）1359－270K2 | 27PF 50V 10\％NPO 0805 T／R | 」 $\mathrm{S}^{*}$ |
| C298 | 10243日－82日K2 | 日2PF 200V 10\％NPO 0805 | 」 10 ＊ |
| c209 | A11427－183K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H ${ }^{*}$ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO $0885 \mathrm{~T} / \mathrm{R}$ | K 7＊ |
| C211 | 102438－221K2 | 220PF 200V $10 \%$ NPO 0日05 | K 7＊ |
| C212 | A11 427－123K2 | 0.012 MF 50V 10\％CHIP | L B＊ |
| C213 | 10246日－1 | 47LF 10V 20\％NP RAD T／R | K 8 |
| C214 | 10246日－1 | 47LF 10V 20\％NP RAD T／R | $K 8$ |
| C215 | Ai 1427－183K2 | Q． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | K $B^{*}$ |
| C216 | A1 1427－472K2 | 470日PF 50V 10\％×7R 0805 | 」 2＊ |
| C217 | A11427－272k2 | 2700PF 50V 10\％CHIP 0805 | D 1＊ |
| C21日 | A10434－104JD | 0． 1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 470®PF 50V 10\％×7R 0日05 | E 1＊ |
| ᄃ22日 | 102438－181K2 | 100PF 20日V 10\％NPO 日B85 | D $2^{*}$ |
| C221 | 103191－1 | 0．47UF 25U 1210 20\％50V | E 8＊ |
| C222 | A11427－104K2 | D． 1 MF 50V 10\％0805 | E 8＊ |
| ᄃ223 | C 9157－6 | 1 10UF $16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／A | F 9 |
| C224 | 103191－1 | 0.47 LF Z5U $121020 \% 58 \mathrm{~V}$ | 」 $9 *$ |
| C226 | A11427－104K2 | D． 1 MF 50V 10\％0805 | K 10＊ |
| C227 | A1 1427－1®4K2 | D． 1 MF $50 \mathrm{~V} 10 \%$ 9805 | K ${ }^{*}$ |
| C22日 | A1 1427－104K2 | 0． 1 MF 50V 10\％0日05 | J 10＊ |
| C229 | A1 1427－104K2 | D． 1 MF 50V 10\％0日05 | 」 ＊＊$^{\text {d }}$ |
| C230 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0805 | E $\mathrm{B}^{*}$ |
| C231 | A11427－104K2 | D． 1 MF 50V 10\％0B05 | E 7＊ |
| C232 | A11427－104K2 | 0．1 MF 50V $10 \%$ D日05 | E 7＊ |
| C233 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | D 日＊ |
| C234 | A11365－102J2 | 日． $0 \square 1 \mathrm{LF} 50 \mathrm{~V}$ 5 NPO MLC $0805 \mathrm{~T} /$ | J 7＊ |
| C235 | 102438－101K2 | 10日PF 20ロV 10\％NPO 0805 | 」 2＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC． |
| C236 | 103210－1 | 2．2UF 160 V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2． 2 LF 150 V RADIAL T／R | I 1 |
| C23日 | 10243日－820K2 | 82PF 200V 10\％NPD 0日05 | 」 7＊ |
| C239 | A11427－184K2 | Q． 1 MF 58V 10\％0805 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | J 9 |
| C241 | A11369－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPD 0805 T／R | L 10 |
| C242 | A11369－330J2 | 33PF 50V 5\％NFO MLC 0805 | K 10 |
| C500 | A11369－120K2 | $12 \mathrm{FF} 50 \mathrm{~V} 10 \%$ NPQ $0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| c501 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO D日05 T／R | A 2 |
| C502 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | － 2 |
| C503 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 日 2 |
| C504 | 102438－560k2 | 58PF 200V 10\％NPO 0B65 | A 2 |
| C505 | A11427－104K2 | 0.1 MF 50V 10\％8B05 | A 2 |
| C506 | A11427－104K2 | Q． 1 MF 50V 10\％0805 | A 2 |
| C509 |  | OPEN | 旦 2 |
| C600 | A11369－128K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | A 2 |
| c601 | A11365－120K2 | 12PF 50 V 10\％NPO D805 T／R | A 1 |
| C602 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO Q805 T／R | A 2 |
| C603 | 102467－1 | 22MF 25V 20\％RAD T／A | 日 2 |
| C604 | 102438－560k2 | 56PF 20日V 10\％NPQ 日®05 | 日 2 |
| C605 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} 10 \%$ 日日05 | A 1 |
| c606 | A11371－1501 | 15 OHM 0．10w 5\％CHIP | C 3 |
| c607 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | ［ 3 |
| c608 | A11427－104K2 | 0．1 MF 50V 10\％0805 | B 1 |
| C609 |  | OPEN | B 2 |
| D1 | ᄃ 2日51－1 | 1N4004 SILICON RECT． | 63 |
| D2 | C 2851－1 | 1N4004 SILICON RECT． | G 10 |
| D3 | C．2851－1 | 1 N4004 SILICON RECT． | $G 10$ |
| D4 | C 2851－1 | IN4OV4 SILICON RECT． | $G 10$ |
| D6 | E 2851－1 | IN4BO4 SILICON RECT． | 」 8 |
| D7 | ᄃ 2851－1 | IN4QO4 SILICON RECT． | 18 |
| DG | C 3549－8 | DIODE ZENER，10V． 1 N52408 | J 8 |
| D9 | ¢ 9283－0 | DIODE．INS14／1N4148 SOT－23 SMT | I $3^{*}$ |
| D10 | C 2851－1 | 1N4QU4 SILIEON RECT | I 10 |
| D13 | ᄃ 9283－0 | DIODE．1NS14／1N414B SOT－23 SMT | I $3^{*}$ |
| D101 | C 9283－0 | DIODE， $1 N 914 / 1 N 414 \mathrm{E}$ SOT－23 SMT | N $\mathrm{S}^{*}$ |
| D102 | C 9283－0 | DIODE． 1 NS14／1N4148 SOT－23 SMT | N 3＊ |
| D103 | C 9283－0 | DIODE， 1 NG14／1N4148 SOT－23 SMT | L 9＊＊ |
| D104 | c 9283－0 | DIODE， 1 NS14／IN4148 50T－23 SMT | M ${ }^{*}$ |
| D105 | ᄃ 9283－0 | DIODE，1NS14／1N4149 SOT－23 SMT | L 9＊ |
| D106 | ［ 9283－0 | DIODE，1NS14／IN4148 SOT－23 5MT | N 日＊ |
| D107 | C 9283－0 | DIODE． 1 NS14／1N4148 SOT－23 SMT | N $日^{*}$ |
| D108 | C 9283－0 | DIODE，1NS14／IN4148 SOT－23 5MT | N $\mathrm{B}^{*}$ |
| D109 | ［ 9283－0 | DIODE， 1 NS14／1N4148 SOT－23 SMT | N ${ }^{* *}$ |
| D110 | C 9283－0 | DIODE， 1 NS14／1N4148 SOT～23 SMT | N $\mathrm{B}^{*}$ |
| D111 | C 9283－0 | DIODE， 1 NS14／1N4148 SOT－23 SMT | N $8^{*}$ |
| D1 12 | C 9283－0 | DIODE， 1 NG14／1N4148 SOT－23 SMT | N $8^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| D113 | ᄃ 9283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | N $日^{*}$ |
| D1 14 | C10422－1 | DIODE，3A 400V $1 \mathrm{~N} 5404 \mathrm{~A} \times \mathrm{IAL}$ | I 5 |
| D115 | C10422－1 | DIODE，3A 400V 1N5404 AXIAL | 15 |
| D116 | ［ 92日3－0 | DIODE． $1 \mathrm{NG14/1N4148} \mathrm{SOT-23} \mathrm{SMT}$ | G 8＊ |
| D117 | C 92日3－8 | DIODE， $1 \mathrm{NG14/1N4148} \mathrm{SOT-23} \mathrm{SMT}$ | M 10＊ |
| D118 | ᄃ 9283－0 | DIODE， $1 \mathrm{NG} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT-23}$ SMT | N 10＊ |
| D119 | ᄃ 9283－0 | DIODE． $1 \mathrm{NG14/1N4148} \mathrm{50T-23} \mathrm{5MT}$ | I $3^{*}$ |
| D120 | C 9283－0 | DIODE． $1 \mathrm{NG14/1N4148} \mathrm{SOT-23} \mathrm{SMT}$ | I $3^{*}$ |
| D121 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | L 3＊ |
| D122 | C 9283－a | DIODE， 1 N914／1N4148 SOT－23 SMT | M $\mathrm{S}^{*}$ |
| D 123 | ᄃ 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | G $9^{*}$ |
| D1 24 | C 9283－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | ［ 7＊ |
| D1 25 | C 9283－0 | DIODE． 1 NS $14 / 1 \mathrm{~N} 4148$ SOT－23 SMT | H 7＊ |
| D126 | C 9283－0 | DIODE． 1 NS14／1N4148 SOT－23 SMT |  |
| D127 | C 9283－0 | DIODE． 1 NS $14 / 1$ N4148 SOT－23 SMT | M B |
| D128 | ᄃ 9283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | G 7＊ |
| D129 | C 9283－0 | DIODE，INS14／1N414日 SOT－23 SMT | G 6＊ |
| D201 | ᄃ 9283－0 | DIDDE，iNS14／1N414B SOT－23 SMT | K $9^{*}$ |
| D202 | ᄃ 9283－0 | DIDDE，1NS14／1N414日 SOT－23 SMT | K 3＊ |
| D203 | ᄃ 9283－ | DIDDE．iN914／1N4148 50T－23 5MT | 」 ＊＊$^{*}$ |
| D204 | C 92日3－0 | DIQDE．IN914／1N4148 SOT－23 SMT | 」 $9^{*}$ |
| D205 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 $\mathrm{G}^{*}$ |
| D206 | C 92日3－0 | DIODE． 1 NG14／1N414日 SOT－23 SMT | K $\mathrm{g}^{*}$ |
| D207 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K $\mathrm{g}^{*}$ |
| D208 | C 9283－0 | DIDDE，1N914／1N414日 SOT－23 SMT | K 7 ＊ |
| D209 | ᄃ 92日3－0 | DIODE，iN914／1N414日 SOT－23 SMT | K $日^{*}$ |
| D210 | ᄃ 9283－b | DIODE，1N914／1N4148 SOT－23 SMT | K 日＊ |
| D211 | －9283－0 | DIODE，1N914／1N4148 5QT－23 5MT | K $\mathrm{B}^{*}$ |
| D212 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | K $8^{*}$ |
| D213 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | K $\mathrm{B}^{*}$ |
| D214 | C10422－1 | DIODE，3A 400V 1 N 5404 AXIAL |  |
| D215 | ［10422－1 | DIODE．3A 40®V 1N5404 AXIAL | I 2 |
| D216 | C 9283－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | E 日＊＊ |
| D217 | ［ 9283－0 | DIODE， $1 \mathrm{NS} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT}-23$ SMT | K 10＊ |
| D218 | C 9283－0 | DIODE． $1 \mathrm{NQ} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT}-23$ SMT | L 10＊ |
| D221 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 ＊＊$^{*}$ |
| D222 | C 9283－a | DIODE． $1 \mathrm{NG} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT}-23 \mathrm{SMT}$ | K 9＊ |
| D223 | C 9283－0 | DIODE，1N914／1N4148 50T－23 5MT | E $9^{*}$ |
| D224 | C 9283－b | DIODE，1N914／1N414日 SOT－23 SMT | E 7＊ |
| D225 | c 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | F ${ }^{\text {7＊}}$ |
| D226 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 5MT | $\times 7$ |
| D227 | C 92日3－0 | DIODE． 1 N914／1N414日 SOT－23 5MT | K 8 |
| D22日 | C 92日3－0 | DIODE，iN914／1N414日 SOT－23 SMT | E 7＊ |
| D229 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 5MT | F 6＊ |
| E1 | 102476－1 | LED．SMT R／A GREEN | I 1 |
| E180 | 102477－1 | LED．SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED．SMT R／A GREEN | J 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only
 SHALL NGT GE GEPRODUCED．COPIED：OA USED OAS APPARATUS OAR DEVICES WITHOUT PERMISSION

CROWN INTERNATIDNAL INC． 1718 west mishawaka road
elkhart．indiana 48517 DWG．NO．

| DRAWN | JFL | $9-24-9 \mathrm{~B}$ |
| :---: | :---: | :---: |
| PROJ． | MD399DG |  |

102140－8

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LDC． |
| E102 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 162477－1 | LED，SMT R／A RED | M |
| E201 | 102476－1 | LED．SMT R／A GREEN |  |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| HS 1 | 102575－3 | HS ASM．T2 NON－ISOLATED CH1． | L E |
| HS2 | 102576－3 | HS ASM，T2 NON－ISOLATED CH2， | L 3 |
| HS3 | 102573－3 | HS ASM，T2 ISOLATED CH1． | G 6 |
| HS 4 | 102574－3 | HS ASM，T2 ISOLATED CH2， | G 3 |
| HW1 | 102578－1 | SPACER． $6 \times .125 \mathrm{AL}$ BLK ANODIZED | A 4 |
| HW2 | 10257日－1 | SPACEA． $6 \times .125$ AL BLK ANODIZED | A 4 |
| HW3 | 102578－1 | SPACER， $6 \times .125$ AL 日LK ANODIZED | A 4 |
| HW4 | 102578－1 | SPACER，$\delta \times .125$ AL BLK ANQDIZED | A 4 |
| HWS | 102578－1 | SPACER， $6 \times .125$ AL ELK ANODIZED | A 4 |
| HWS | 102578－1 | SPACER． $6 \times 125 \mathrm{AL}$ BLK ANODIZED | B 4 |
| HW7 | 102578－1 | SPACER， $5 \times 125$ AL BLK ANODIZED | B 4 |
| HWE | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ BLK ANODIZED | 日 4 |
| HWS | A10020－7 | $6-32 \times .525$ PCQ EAPTIVE STUD | D 5 |
| HWIE | A10020－7 | $6-32 \times .825$ PCB LAPTIVE STUD | I 6 |
| HW1 1 | A10020－7 | $6-32 \times .625$ PCE LAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | 6－32 $\times$ ． 625 PCB［APTIVE 5TUD | 13 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 」 5 |
| HW1 4 | A10020－7 | $6-32 \times .625$ PCB LAPTIVE STUD | N 6 |
| HW1 5 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW1 6 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | N 3 |
| HW1 7 | A11856－1 | 6－32 HEX NUT W／GELLEVILLE | A 4 |
| HW18 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW19 | A）1856－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW20 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HWZ 1 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW2 2 | A11056－1 | 6－32 HEX NLTT W／日ELLEVILLE | 日 4 |
| HW23 | A11856－1 | 6－32 HEX NUT W／日ELLEVILLE | 日 4 |
| HW2 4 | A11058－1 | 6－32 HEX NUT W／EELLEVILLE | B 4 |
| HW25 | 102579－1 | STAND， $1 / 4$ RD SWAGE AL | A 1 |
| HW28 | 102579－1 | STAND． $1 / 4 \mathrm{RD}$ SWAGE AL | A 2 |
| HW27 | 103415－70608 | SCREW，6－32 $\times .5$ TORX PNHD SEM | A 4 |
| HW2旦 | 103415－7060日 | SCREW，6－32 $\times .5$ TORX PNHD SEM | A 4 |
| J 2 | 101573－1 | HDA 4 POS ． 1 CTR MTA SHAD | G 10 |
| 」3 | 102472－3 | HDR．1GPOS ． 1 UQ CTR SGL ROW | M 8 |
| 14 | 181571－1 | HDR 2 POS． 1 CTR MTA SHRD | L 10 |
| 」 5 | 101993－1 | JACK，6P4 CDND MODLLAR R／A | N 10 |
| 」100 | 102473－1 | SPEAKON， 4 POLE PCE HORZ | D 10 |
| 」200 | 102473－1 | SPEAKON， 4 POLE PCE HORZ | F 10 |
| 」500 | 126929－1 | 1／4＂TRS／XLR COMBO PCE VERT | 日 3 |
| J502 | 102471－2 | HDR．12POS 2．5MM RT ANG KEYED | C 1 |
| 」600 | 126329－1 | $1 / 4^{\prime \prime}$ TRS／XLR COMEO PCE VERT | 旦 1 |
| K100 | 126317－1 | REL，3BA 24 V SPST PCB W／FASTON | 69 |
| K20日 | 126317－1 | REL． $30 A 24 \mathrm{~V}$ SPST PCB W／FASTON | E 9 |
| L10日 | C 3510－2 | CHOKE． $470 \mathrm{LH} 10 \%$ AXIAL | N 7 |
|  |  |  |  |
|  |  |  |  |

PARTS LIST


## INACTIVE

For Reference Use Only
CRDWN INTERNATIONAL INC.


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N | DESCRIPTION | MAP LOC． |
| 0211 | C 9931－4 | MMET5087LT1 PNP $\times$ SISTOR SOT－23 | 」 2 ＊ |
| Q212 |  | INSTALLED ON THE PREVIOUS ASSEMELY | 」 2 |
| Q214 |  | INSTALLED ON THE PREVIOUS ASSEMAL Y | 」 3 |
| 0215 |  | INSTALLED ON THE PREVIOUS ASSEMELY | K 3 |
| 0216 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | L 3 |
| 0217 |  | INSTALLED ON THE PREVIOUS ASSEMELY | L 3 |
| 0218 |  | INSTALLED ON THE PREVIOUS ASSEMELY | M 3 |
| Q219 |  | INSTALLED ON THE PREVIOUS ASSEM伯Y | N 3 |
| 0220 | 103193－1 | PNP 30日V 500MA 50MHZ SDT－223 | D 2＊ |
| Q221 |  | INSTALLED ON THE PREVIOUS ASSEMELY | D 2 |
| 0223 |  | INSTALLED ON THE PREVIOUS ASSEMELY |  |
| 0224 |  | INSTALLED ON THE PREVIOUS ASSEMELY | E 3 |
| 0225 |  | INSTALLED ON THE PREVIOUS ASSEMELY | F 3 |
| Q226 |  | INSTALLED ON THE PREVIOLS ASSEMELY | G 3 |
| 0227 |  | INSTALLED ON THE PREVIOUS ASSEMBLY | H 3 |
| 0228 |  | INSTALLED ON THE PREVIOUS ASSEMELY | H 3 |
| 0229 | C 7448－1 | MM日T3904 CHIP NPN | E 9＊ |
| 0231 | 125106－1 | MAC9D 日 AMP 488 V TRIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER SES EV THRESH | F 8 |
| 0233 | 102480－1 | FET，N－［H 25V 50MA 5OT－23 | 」 $9^{*}$ |
| R1 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 」 8＊ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 」 $8^{*}$ |
| R3 | A11371－3341 | 330 K 0．10W 5\％LHIP 日日05 | I $8^{*}$ |
| R4 | A11371－3313 | 330 OHM 6．25W 5\％CHIP | I ${ }^{*}$ |
| R5 | A1136日－76日11 |  | D $8^{*}$ |
| R6 | A11368－93111 | 9．31K 0．1W 1\％CHIP 0805 | D $日^{*}$ |
| R7 | A ： 1371 －2225 | 2．2K 1W 5\％CHIP 2512 | Ј 日＊ |
| RB | A11371－1022 | 1 K 日． $125 \mathrm{~W} 5 \%$ CHIP 1206 | N 10＊ |
| R3 | A11368－10021 | 10K 1／10W 1\％CHIP 0885 | H 9＊ |
| R10 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330K Q．10W 5\％CHIP 0805 | I 9＊ |
| R12 | A11368－68121 | 6日． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | I 9＊ |
| R13 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R14 | A11371－0R21 | 0.2 ロHM $0.10 \mathrm{~W} 5 \%$ CHIP 0 B05 | I 10＊ |
| R15 | A11371－0R21 | 0.2 OHM 0． $10 \mathrm{~W} 5 \%$ CHIP 0B05 | I 10＊ |
| R16 | A11371－3923 | $3.9 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP | N 9＊ |
| R17 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | F 10＊ |
| R18 | A11368－71511 | 7．15K 0．1W 1\％CHIP 0885 | D 日＊ |
| R19 | A11371－3313 | 330 OHM D．25w 5\％CHIP | I 1＊＊ |
| R20 | A11368－57621 | 57．6K 日．18W 1\％CHIP 0805 | $1 \mathrm{~S}^{*}$ |
| R2 1 | A11368－12121 | 12.1 K OHM 日．10W 1\％CHIP 0日05 | 」 ＊$^{*}$ |
| R22 | A11368－39231 | 392K 8．10W 1\％CHIP 0805 | I 9＊ |
| R23 | A1136日－39231 | 392K 0．10W 1\％LHIP 0805 | I G＊$^{*}$ |
| R24 | A11368－57621 | 57．6K 0．10W 1\％CHIP B905 | I S＊$^{*}$ |
| R25 | A11368－10031 | 100K ロ．1W 1\％CHIP 0日®5 | N 9＊ |
| H26 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | A $\mathrm{S}^{*}$ |
| R27 | A11368－10021 | 10K 1／10W 1\％CHIP 0日®5 | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| DRAWN | FL | 9－24－98 | DWE．N | SHEET 12 OF 29$\square 214 \square-8$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Proj． | D3 |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| R2B | A11371－7511 | 750 DHM 日．10W 5\％EHIP | L ＊$^{*}$ |
| P23 |  | OPEN |  |
| R30 | A1136日－10831 | 100K 0．1W $1 \%$ EHIP 0日05 | I $\mathrm{B}^{*}$ |
| R31 | A11358－10831 | $100 K$ 0．1W $1 \%$ EHIP 0805 | 」 $8 *$ |
| 8100 | 102595－3 | POT．5K LIN 21 DNT 12 MM HORIZ | L． 1 |
| R101 | A1136日－10811 | 1K D．10W 1\％CHIP BE日5 | M 10＊ |
| R102 | A1136B－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R103 | A11368－49901 | 499 OHM 0．10W 1\％CHIP 0日05 | N 9＊ |
| R104 | A11368－10621 | 10K 1／10W 1\％CHIP 0日05 | N $\mathrm{S}^{*}$ |
| R105 | A11371－5日14 | 680 OHM D．50W 5\％CHIP | 」 1＊ |
| R106 | A1136B－18011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D80 | M 9＊ |
| R107 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ EHIP 0805 | L．10＊ |
| R108 | A1136日－10821 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ EHIP D日05 | L 10＊ |
| 8109 | A11368－19122 | 19．1K D． $125 \mathrm{~W} 1 \%$ CHIP 1205 | M $\mathrm{S}^{*}$ |
| R110 | A1136B－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D日QS | L $9^{*}$ |
| R111 | A11368－10021 | 10K 1／10W \％\％CHIP 0805 | L．9＊ |
| R112 | A10265－19121 | 1 S .1 K ®． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 9 |
| R1：3 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | L 10＊ |
| R114 | A11368－82511 | 8． 25 K 0．1W 1\％CHIP 0日05 | L 10＊ |
| R115 | A1136日－ 1 － 121 | 6日． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | L 10＊ |
| R116 | A11368－22601 | 226 OHM $\triangle$ ，10W 1\％CHIP 8AD5 | M 9＊ |
| R117 | A19371－3341 | $330 K 0.10 W 5 \%$ CHIP 0805 | M 9＊ |
| R118 | A11368－10221 | 10．2K 0．10W 1\％CHIP 0805 | M 10 |
| R119 | A11371－3333 | 33 K Q． 25 W 5\％CHIP 1210 | M ${ }^{*}$ |
| R120 | A1136日－90921 | 90． $3 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | M 9＊ |
| 8121 | A11368－10021 | 10K $1 / 10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | M 10 |
| R122 | A1136日－15日31 | 15日K 0．10W 1\％CHIP 0日05 | N 9＊ |
| R1 23 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 0805 | M 9＊ |
| R124 | A1136日－15日31 | 15BK 0． 10 W 1\％CHIP 0日05 | M 9＊ |
| R125 | A11368－10031 | 100K 日． $1 \mathrm{~W} 1 \% \mathrm{CHIP} 0885$ | N \％$^{*}$ |
| Ril26 | A11358－39231 | 392K 0．18W 1\％CHIP 0805 | M $9^{*}$ |
| Ri 27 | A11371－5821 | 6．日K 0．10W 5\％CHIP 0805 | N $\mathrm{S}^{*}$ |
| R128 | A11371－6814 | G80 OHM 0．50W 5\％EHIP | 」 1 ＊ |
| R129 | A11371－8211 | B20 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | $\bigcirc 8^{*}$ |
| R131 |  | OPEN | C E＊ |
| F132 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H E＊$^{*}$ |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％LHIP | H 6＊ |
| ¢134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| F135 | A11371－3923 | 3．9K $0.25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | M 7＊ |
| Ri36 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M $7 *$ |
| R137 | A1136日－49901 | 499 OHM 0．10W 1\％CHIP 0805 | N $\mathrm{B}^{*}$ |
| R138 | A11371－1213 | 120 OHM 0.25 W 5\％CHIP | N 日＊ |
| 8139 | A11368－10783 | 107 OHM 0．25W 1\％CHIP | N $\mathrm{B}^{*}$ |
| R140 | A11371－33．33 | 33 K 日． $25 \mathrm{~W} 5 \%$ CHIP 1210 | N 8＊＊ |
| R141 | A11371－8211 | B20 OHM D．10W 5\％CHIP | － $8^{*}$ |
| R142 | A11371－4724 | $4.7 \mathrm{~K} \mathrm{OHM} \mathrm{D.50W} \mathrm{5} \mathrm{\%} \mathrm{LHIP} 2010$ | －8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| F143 | A11371－3333 | 33K ロ．25W 5\％CHIP 1210 | N $日^{*}$ |
| R144 | A11371－1213 | 120 DHM D．25W 5\％CHIP | N 8＊＊ |
| R145 | A1136日－75R03 | 75 OHM 0．25W 1\％CHIP 1210 | N $8^{*}$ |
| R146 | A 1 1371－1331 | 13 K OHM D． 1 DW 5\％CHIP D805 | N 7 ＊ |
| R147 | A）1371－1011 | 100 OHM 0．10W 5\％CHIP 08Q5 | N 7＊ |
| R148 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | M 7＊ |
| R150 | A11371－5R63 | 5．6 D．25W 5\％CHIP | N 6＊ |
| R152 | 103199－1 | 0.4 DHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 人 $\underline{\text { E }}^{*}$ |
| R153 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R154 | 103199－1 | D． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | L $6^{*}$ |
| R155 | 103193－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 5＊ |
| R156 | 103193－1 | D． 4 OHM 1W 5\％ 2512 T／R | M E＊ |
| 8157 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R158 | A10266－2R74 | 2.7 OHM 2W 5\％CF | I 8 |
| R159 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／R | D 6＊ |
| R160 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | H ${ }^{*}$ |
| R162 | A）1371－4701 | 47 OHM D． $10 \mathrm{~W} 5 \%$ EHIP | H 7 ＊ |
| R163 | A11371－18：1 | 180 OHM 日． 10 W 5\％CHIP | 17 ＊ |
| R165 | A11371－5R63 | $5.50 .25 W 5 \%$ CHIP | I 5＊ |
| R167 | 103199－1 | B． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E $6^{*}$ |
| R168 | 103193－1 | 0.4 OHM 1W 5\％2512 T／R | F 6＊ |
| R169 | 103199－1 | D． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R170 | 103199－1 | D． 4 OHM 1W $5 \% 2512$ T／R | G 6＊ |
| R171 | 103199－1 | 0.4 OHM iW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R172 | 103199－1 | D． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H E＊ |
| R174 | A11371－4751 | 4．7M D． $10 \mathrm{~W} 5 \%$ CHIP 0日05 | G 8＊＊ |
| R175 | A1136日－51111 | 5.11 K OHM B．10W 1\％CHIP 0805 | G $\mathrm{B}^{*}$ |
| R176 | A11358－10021 | 10K 1／10W 1\％CHIP 0805 | ［ 8＊ |
| R177 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | H $8^{*}$ |
| R178 | A11358－90921 | 90．9K 0．10W $1 \%$ LHIP 0805 | N $9^{*}$ |
| R179 | A 1 136日－10031 | 100K 日．1W 1\％CHIP Be®S | F 7＊ |
| R188 | A1 138日－39231 | 392 K 0．10W 1\％CHIP 0日05 | G $8^{*}$ |
| R181 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | J 1＊＊ |
| R182 | A 1 1368－10021 | 10K 1／10W 1\％CHIP 0BES | F $8^{*}$ |
| R183 | A11358－10031 | 10日K 日．1W 1\％CHIP D日B5 | F $8^{*}$ |
| R184 | A11388－20023 | 20K 日．25W 1\％CHIP 1210 | F 9＊ |
| R185 | A $11368-10021$ | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP $0 日 B 5$ | G 8＊ |
| A186 | A 11368－10031 | 180X ロ．IW $1 \%$ CHIP 0日®5 | N 10＊ |
| R187 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | M 18＊ |
| R188 | A11368－15831 | 158K 日． 10 W 1\％LHIP 0805 | N 10＊ |
| R189 | A1 1368－10031 | 1日QK $0.1 \mathrm{~W} 1 \%$ CHIP 0885 | M 10＊ |
| R190 | A1138日－57621 | 57.8 K 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | N 6＊ |
| R191 | A1136日－22601 | 226 OHM 0．10W 1\％CHIP 0 OQ5 | N E＊ |
| R192 | A11371－4751 | 4．7M D． $10 \mathrm{~W} 5 \%$ CHIP 0905 | L． ＊$^{*}$ |
| R193 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | N 9＊＊ |
| R194 | A11371－B201 | 日2 OHM Q．10W 5\％CHIP | M ${ }^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

For Reference Use Only

| CROWN <br> 1718 WEST MISHAWAKA ROAD |  | INTERNATIUNAL <br> ELKHART，INDIANA $4651 \%$ PHONE |  |  | INC． |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| pros． | mbasada |  | 102 | －－8 |  | （b） |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％LHIP | M 7＊ |
| R200 | 102595－3 | POT，5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 18＊ |
| R202 | A11368－39231 | 392K 0．10W 1\％CHIP D日B5 | L $\mathrm{S}^{*}$ |
| R203 | A11368－49901 | 499 OHM D．10W 1\％CHIP 0805 | L 3＊$^{*}$ |
| R204 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | L S＊$^{*}$ |
| R205 | A11371－6日14 | 680 OHM 0．5日W 5\％CHIP | M 1＊ |
| R206 | A11368－10011 | 1 K 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 $9^{*}$ |
| R209 | A1136日－19122 | 19．1K $0.125 \mathrm{~W} 1 \% \mathrm{CHIP} 1206$ | $\times 9^{*}$ |
| R210 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 $9^{*}$ |
| R211 | A1136B－10021 | 10K 1／10W 1\％CHIP D日05 | 」 $9^{*}$ |
| R2 12 | A10265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | J 9 |
| R2 13 | A11368－51111 | 5.11 K OHM D．10W $1 \%$ LHIP 0805 | 」 10＊ |
| R214 | A11368－82511 | 8．25K 日．1W 1\％CHIP 0805 | 」 10＊ |
| R215 | A11368－68121 | 68．1K 0．10W 1\％CHIP | 」 10＊ |
| R216 | A11368－22601 | 226 OHM 0．10W 1\％CHIP 0805 | K $9^{*}$ |
| R217 | A11371－3341 | 330K 0．10W 5\％CHIP D805 | J 9＊ |
| R218 | A11368－10221 | 10．2K Д．10W 1\％LHIP 0日05 | K 10 |
| R219 | A11371－3333 | 33 K 日．25W 5\％CHIP 1210 | 」 9＊ |
| R220 | A11368－90921 | 90．9K 0．10W $1 \%$ CHIP 0日05 | K 9＊ |
| R221 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | K 10 |
| R222 | A1136日－15831 | 158K D．10W 1\％EHIP 0805 | K 9＊ |
| R223 | A1136日－10031 | 100K 0．1W 1\％［HIP 0日g5 | K 9＊ |
| R224 | A1136日－15831 | 158K 0．10W 1\％CHIP 0805 | K 9＊ |
| R225 | A1136日－10031 | 10日K 0．1W 1\％CHIP 0日05 | L． \％$^{*}$ |
| R226 | A1136日－39231 | $392 \mathrm{X} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0a05}$ | K 9＊ |
| R227 | A11371－6821 | 6．日K 0．10W 5\％LHIP 0805 | K 9＊ |
| R22日 | A11371－5814 | 680 OHM D．50W 5\％CHIP | M 1＊ |
| R229 | A1 1371－8211 | 820 OHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L $7 *$ |
| R232 | A11371－2223 | 2．2K D．25W 5\％CHIP 1210 | H ${ }^{*}$ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
| R234 | C10513－5 | IK TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％［HIP | 」 7 ＊ |
| R236 | A11371－8201 | 82 OHM D． 10 W 5\％CHIP | 」 $7 *$ |
| R237 | A11368－49901 | 499 OHM D．10W 1\％CHIP 0805 | K 8＊ |
| R238 | A11371－1213 | 120 OHM 0．25W 5\％LHIP | K 7＊ |
| R239 | A11368－18703 | 107 OHM 0．25W 1\％EHIP | K $8^{*}$ |
| R240 | A11371－3333 | 33 K 日．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 OHM D．10W 5\％CHIP | L $日^{*}$ |
| R242 | A11371－4724 | 4.7 K OHM 日．50W 5\％CHIP 2010 | L 7＊ |
| R243 | A11371－3333 | 33 K 0.25 W 5\％CHIP 1210 | K 8＊ |
| R244 | A11371－1213 | 120 OHM D．25W 5\％CHIP | K $日^{*}$ |
| R245 | A1136日－75R日3 | 75 OHM 0．25W 1\％CHIP 1210 | K $8^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0B05 | 」 $2^{*}$ |
| R247 | A11371－1011 | 100 OHM 日． 1 DW 5\％CHIP 0805 | 」 $2^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| F24B | A11371－1811 | 180 OHM D．10W 5\％CHIP | K $2^{*}$ |
| R250 | A11371－5R63 | 5．6 0．25w 5\％CHIP | J 2＊ |
| R252 | 103198－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | $\times$ 4＊ |
| R253 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K $3^{*}$ |
| R254 | 183199－1 | Q． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{A}$ | L 4＊ |
| R255 | 103199－1 | Q． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | M 3 ＊ |
| R256 | 103199－1 | D． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103193－1 | 0． $4 \mathrm{DHM} 1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | N $3^{*}$ |
| R259 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 ロHM 0．10W 5\％CHIP | D $1^{*}$ |
| R261 | A1 1371－1331 | 13 K OHM 0．10W 5\％［HIP 0日®5 | E 2＊ |
| R262 | A11371－4701 | 47 OHM D．10W 5\％LHIP | E 2＊ |
| R263 | A11371－1811 | 1 100 OHM D． 10 W 5\％LHIP | E $2^{*}$ |
| R265 | A11371－5R63 | 5.8 B． 25 W 5\％CHIP | E $2^{*}$ |
| R267 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E 4＊$^{*}$ |
| R26日 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R269 | 103193－1 | D． 4 DHM iW 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | F 4 ＊ |
| R270 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 3＊ |
| R271 | 103199－1 | D． 4 OHM iW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 4 ＊ |
| R272 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A11371－4751 | 4．7M D． $10 \mathrm{~W} 5 \%$ CHIP 0805 | E 日＊ |
| F275 | A1136日－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP Q日05 | E 8＊ |
| R276 | A1 1368－10021 | 10K 1／10W 1\％CHIP D日B5 | E 日＊ |
| R277 | A11388－10021 | 10K 1／1日W 1\％CHIP $2 \mathrm{BB5}$ | E $B^{*}$ |
| R278 | A1136日－90921 | 90．9K $0.18 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| ¢279 | A11368－18831 | 188K D．1W 1\％LHIP D805 | E 7＊ |
| R280 | A1136日－39231 | 392x 0．10W 1\％CHIP 0885 | E $8^{*}$ |
| R281 | Ai 1371－6814 | 680 OHM 0．50W 5\％CHIP | M $1^{*}$ |
| R282 | A11388－10021 | 10K 1／10W 1\％LHIP 0805 | D $8^{*}$ |
| R283 | A11368－18031 | 108 K ． $1 \mathrm{~W} 1 \%$ CHIP 8885 | E $\mathrm{B}^{*}$ |
| R284 | A1136日－20023 | $20 K$ D．25w $1 \%$ CHIP 1210 | F $9^{*}$ |
| R285 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ LHIP 0805 | F $\mathrm{O}^{*}$ |
| R286 | A $11388-10031$ | 10®K 0．1W $1 \%$ CHIP D日85 | L．10＊ |
| R2日7 | A1136日－15日31 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D日05 | K 10＊ |
| R2日8 | A11388－15831 | 158K 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A1136日－18031 | $100 K 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R290 | A1136日～57621 | $57.8 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP B605 | N 3＊ |
| R291 | A11368－22601 | 226 OHM 日． 10 W 1\％CHIP 0805 | N 3＊ |
| R292 | A11371－4751 | 4．7M 0．10W 5\％CHIP 0805 | 」 」＊$^{\text {a }}$ |
| R293 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | K $日^{*}$ |
| R294 | A11371－8201 | 82 DHM $0.10 W 5 \%$ CHIP | 」 7＊ |
| R295 | A11371－8211 | 日20 OHM 0．10W 5\％［HIP | 」 7＊ |
| R300 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／A | D 6＊ |
| R301 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | 」 6＊ |
| R302 | 103199－1 | B． 4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R903 | 103199－1 | Q． 4 OHM 1W 5\％2512 T／R | L $6^{*}$ |
| R304 | 103199－1 | 0． $4 \mathrm{OHM} 1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | M 5＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R305 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M $6^{*}$ |
| R306 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R307 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| RЭロ号 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F $\mathrm{E}^{*}$ |
| R309 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | G $5^{*}$ |
| A310 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R311 | 103139－1 | 0.4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R312 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／R | I 6 ＊ |
| R313 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0 O05 | G 7＊ |
| R314 | A11371－3341 | 330 K D．10W 5\％CHIP D日05 | G 7＊ |
| R315 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP D日05 | H 7＊ |
| R316 | A11368－10911 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 日B05 | M 10＊ |
| R317 | A11371－3934 | 39K OHM 0．50W 5\％LHIP 1210 | N 日 |
| 831日 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N 日 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／A | L 9 |
| 8323 | A11371－8R02 | 0.0 OHM JUMPER CHIP 1206 | G 8 |
| R400 | 103193－1 | 0． $4 \mathrm{OHM} \mathrm{iW} \mathrm{5} \mathrm{\%} 2512 \mathrm{~T} / \mathrm{R}$ | D ${ }^{*}$ |
| R401 | 103193－1 | 0.4 OHM 1W 5\％ 2512 T／R | J 4＊ |
| R402 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R403 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | L． $4^{*}$ |
| R404 | 103199－1 | D． 4 OHM iW 5\％ 2512 T／R | M 3＊ |
| R405 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M 4 ＊ |
| R406 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N $3^{*}$ |
| R407 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R408 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F $3^{*}$ |
| R409 | 103199－1 | 0．4 OHM 1W 5\％2512 T／R | G 4＊ |
| R410 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G $3^{*}$ |
| R411 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | H ${ }^{* *}$ |
| R412 | 103199－1 | B． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I 3＊ |
| R413 | A1 136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | E $7^{*}$ |
| R414 | A11371－3341 | 330K 日．10W 5\％CHIP 0805 | E 7＊ |
| R415 | A11388－51111 | 5.11 K OHM 0．10W 1\％EHIP 0日05 | E 7＊ |
| R416 | A1 1368－10011 | $1 \mathrm{~K} 0.18 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R417 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R418 | A11371－3934 | 39 K OHM ®． 0 W W 5\％CHIP 1210 | K 8 |
| R415 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5．6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A 11371 －5R65 | 5．5 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／A | J 9 |
| R423 | A11371－DRD2 | ロ．$\triangle$ OHM J UMPER LHIP 1206 | F 日 |
| R500 | A11368－10021 | 10K 1／18W 1\％CHIP 0805 | A 3 |
| R501 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W}$ 1\％CHIP 0805 | A 2 |
| R502 | A11368－18021 | 10K 1／1BW 1\％CHIP 0805 | 日 2 |
| R503 | A1 1368－10021 | 10K 1／10W 1\％CHIP 㬉5 | 日 2 |
| R504 | A11368－10021 | $18 \mathrm{~K} 1 / 1 \mathrm{BW} 1 \%$ CHIP 0805 | A 2 |
| R506 | A11368－18021 | 18K 1／10W 1\％CHIP 0日05 | A 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

CROWN INTERNATIDNAL INC． 1719 west mishawaka road elkhart，indiana 46517


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| AEF DES | E．P．N． | DESEAIPTION | MAP LOC． |
| R508 |  | OPEN | ᄃ 2 |
| R600 | A11368－18021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R601 | A1136日－10021 | 10K 1／10W 1\％EHIP 0805 | A 1 |
| R502 | A1 1368－18021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R603 | A 1 1368－10021 | 10K 1／10W 1\％CHIP D日05 | A 2 |
| R604 | A1 1358－10021 | 10K 1／10W 1\％CHIP D日Q5 | A 1 |
| R606 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | B 2 |
| RED7 | A）1371－8205 | 82 OHM 1W 5\％CHIP 2512 | A 1 |
| R608 |  | OPEN | C 1 |
| S 1 | 126325－1 | DPDT MINI SLIDE NON－SHORT PC | L 10 |
| 5100 | 102488－1 | SPDT VERT SLIDE 12 MM SHAFT | L 10 |
| TB1 | 102475－1 | BLOCK， 5 POS TERMINAL | A 2 |
| TP38 | ［ 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | ᄃ 9895－9 | TEST POINT LOOP | N 7 |
| U1 | C 5095－2 | POS． 15 VOLT REG． | H 10 |
| ப2 | ᄃ 5096－0 | NEG． 15 VOLT REG． | H 9 |
| ப3 | 102485－1 | OPTO BJT NPN SOIC－日［TR $=100 \%$ | N 10 |
| U4 | C 8262－5 | ML33078D DUAL LO NOISE OP AMP | I 9 |
| U5 | ᄃ 8262－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |
| U100 | 102723－2 | OPTO CELL ON＝500 OHM | M 9 |
| U181 | ᄃ 9012－3 | MC33079D QLAD LO NOISE OP AMP | M 10 |
| ப102 | C 903日－9 | COMPARATOR，QUAD LM339D SO－14 | N 9 |
| U104 | C 903日－日 | COMPARATOR，QUAD LM339D SO－14 | G 7 |
| ப105 | C 8262－5 | MC33078D DUAL LD NOISE OP AMP | F 7 |
| U106 | H42982－9 | ASM，THERMAL SENSE | N 6 |
| 4208 | 102723－2 | OPTO CELL ON＝500 OHM | K 9 |
| U201 | C 9012－3 | ML33B79D QUAD LO NOISE OP AMP | 」 18 |
| ப202 | C 9038－8 | COMPARATOR，QUAD LM339D S0－14 | K 9 |
| ப204 | C 9038－8 | COMPARATOR，QUAD LM339D SD－14 | E 7 |
| ப205 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | E 7 |
| U206 | H42902－9 | ASM．THERMAL SENSE | N 3 |
| U500 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | A 2 |
| WP 1 | A11378－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | A 10 |
| WP2 | 103331－N050R | WIRE， 16 日LK／WHT TAE $\times 5 \times$ T | A 9 |
| WP3 | A11379－C850U | WIRE． 16 ELU FAST $\times 5 \times$ TERM | A 9 |
| WP4 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D 7 |
| WP5 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D 4 |
| WP6 | A12125－3140K | WIRE， 22 WHT 3／16×14 $\times$ FAST | J 日 |
| WP7 | 101031－1 | 250 FASTON．AUTO INSERTABLE | D 8 |
| Z1 |  | OPEN | E 9 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Component Map

for use with
Main PWA \#102140-8



INACTIVE
For Reference Use Only

| THESE DAWINSS AND SPECLETCATIONS ARE THE <br>  <br> AS THE GASIS FOA THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISION |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  | scale | None | Dws. No | 1ロ214ロ-8 |  | (B) |
|  | Pros. ${ }^{\text {a }}$ | mp39ade |  |  |  |  |


|  |  |  | DESCRIPTIDN | DATE | 日Y | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E．L． | ZONE | REV． |  |  |  | CHK | ME | EE | PE |
|  |  | A | initial release to productionilevel it | 1 1－64－98 | JAW | TLM |  |  | TS |
| 9850796 |  | B | C686．C607．C60日 WERE Q． 1 MF，RA，R7．R32．R34 WERE 270．RE WAS B．B7K．R1B WAS 7．6日K．R27 WAS 18K．R29 WAS 4．7M．U100．Li206 WERE 102723－1． | 12／14／98 |  | $20$ |  |  | $9 x$ |
|  |  |  |  |  |  |  |  |  | 0 |

NOTES：
1．SChematic drawing number 102142.
2．PWe part number 182138－9．
3．THE PWA SHALL MEET THE IPC－A－EIO．CLASS 2 standards．
4．all leads shall be trimmed to 0．093＂or less．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
6．components that have（＊）after their map location
aRE MOUNTED ON THE BOTtOM SIDE OF THE PRINTED CIRCUIT board．
7．REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES．
8．the vent hole on top of the relays kige and kzog must be opened after the cleaning process．by either removing the sealing tape OA CUTTING OFF THE CIRCLLLAR TAB WITH AN＂EXACTO＂KNIFE OR SIMULAR CUTTING TOOL．WARNING，THIS STEP MUST BE DONE AFTER ThE CLEANING process not beforel：water or cleaning solvents entering the relay vent hole will damage the relay．
3．CONNECT THE wires that come from 0123 and 0223 TO WP4 AND WPS RESPECTIVELY．
10．ThE PWA PART NLIMBER fOR This module shall be marked on the p．c．bdard and shall be permanent． THE PWA NUMBER，1268日3－2．ShalL be PRINTED ON A LABEL AND THIS label shall be placed on the component side of the finished INPUT MODULE
11．INSTALLATION OF U106 AND U206 IS AS FOLLOWS：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOR H42902－9
11日．bend transistor at ge deg．flat side down
11C．Place thansistor into the pwe as shown on
the component mar detail a．
11D．mix OUTPUT EPOXY aND aCcelerator togetmer．
apply the mixture to the transistor and heatsink．
the mixture must fill the heatsink hole and the
leads of the device，especially the center lead．
inOTE：NO VISI日le atr gaps afound the transistor and the thansigtor leads cannot touth the heatsink）
lie．hold the transistor against the heatsink until epoxy sets－up
12．TORQUE 6－32 HEX NUTS（CPN A11056－1）AS FOLLOWS：
72A．PRE－WAVE TOROLE OF 4－6 INCH LBS．
12B．POST－WAVE AND WHEN ASSEMBLY HAS COOLED DOWN TO HANDLING temperature toraue of 13－15 inch les．
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPONENT MAP


INACTIVE
STATIC CAN DAMAGE COMPONENTS： DD NDT HANDLE

UNLESS WRIST STRAP IS WORN

For Reference Use Only Document Has Been Replaced with a Newer Version

> THESE DRAWINGS AND SPECIFICATIONS ARE THE PRDPERTY OF CROWN INTERNATIONAL．INC，AND Shall not ee heproduced．COpied．or used as the basis for the manufacture or sale of apparatus of devices without permissian．

| PRINTS TO |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $K$ |  | PWA，MAIN／INPUT CEZロロロ |  |  |  |  |  |  | $\begin{array}{r} \text { TOL.UNESS SFECIFIED } \\ x . x x= \pm 9.020 \\ x . x X x= \pm 0.010 \\ \text { DRILLS }= \pm 8.003 \\ \hline \end{array}$ |  |
|  |  | DRAWN | JAW | 11－04－98 | APPROVED EY： |  |  | DO NDT SCALE PRINT |  |  |
|  |  | CHECKED | TLM | 11－10－98 | ME |  |  | SUPERSEDES |  |  |
|  |  | SCALE | NONE |  | EE |  |  | E．C． |  |  |
|  |  | PRO」 | MD39000 |  | PE | TS | 11－50－98 | DWG．NO．SHEET 1 OF 20 102140－9 |  |  |
|  |  | FILENAME：102140－9＿8．PCB |  |  | NEXT ASM： |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10020－7 | 6 －32 $\times .625$ PCB CAPTIVE STUD | B | HWS，HW1 ${ }^{\text {，HW1 1．HW1 2，HW1 3，HW1 } 4 .}$ |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K 0．25W 1\％MF | 2 | R112，R212 |
| A10265－2R74 | 2．7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104JD | 0.1 MF 250V 5\％MTL POLY | 2 | C118．c21日 |
| A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | 8 | HW17．HW1日．HW1 S，HW2 ，HW2 ${ }^{\text {，}}$ |
|  |  |  | HW22．HW23，HW2 4 |
| A11388－10011 | 1K ロ．10W 1\％CHIP 0805 | 8 | R101．R106．R110，R201．R206． |
|  |  |  | R210．R316．R416 |
| A1136B－10021 | 10K 1／10W 1\％CHIP 0805 | 35 | R9，R104．R107，R10日．R111． |
|  |  |  | R121，R176．R177，R182．R185． |
|  |  |  | R193，R196．R204．R211．R221． |
|  |  |  | R276．R277，R2日2，R285．R293． |
|  |  |  | R296，R313．R413．R500．R501． |
|  |  |  | R502．R503．R50 4，R506．R600． |
|  |  |  | R601，R802．R603．R604．R606 |
| A1138B－10031 | 108K 0．1W 1\％CHIP 0805 | 15 | R25，R30，R31，R123，R125，R179． |
|  |  |  | R1时，R186，R1日9，R223，R225． |
|  |  |  | R279，R2日3，R2日6，R289 |
| A1 138日－10221 | 10．2K 0．10W 1\％CHIP Dag5 | 2 | R118，R218 |
| A1136日－10703 | 107 OHM 0．25W $1 \%$ CHIP | 2 | R139．R239 |
| A1136日－12121 | $12.1 \mathrm{~K} \mathrm{OHM} \mathrm{D}$.10 W 1\％CHIP 0日Q5 | 1 | R21 |
| A1136日－15002 | 150 DHM Q． 125 W 1\％CHIP | 2 | R137，R237 |
| A1136B－15831 | 158K 0．10W 1\％CHIP B日05 | 8 | R122，R124，R187，R18日，R222． |
|  |  |  | R224，R287．R2日日 |
| A1136日－19122 | 19．1K 0．125W 1\％EHIP 1206 | 2 | R109，R209 |
| A1136日－20021 | 20K D． $1 \mathrm{~W} 1 \%$ 0日B5 T／R | 1 | R27 |
| A1135日－20023 | 20K 0．25W 1\％LHIP 1210 | 3 | R10．R184．R2日4 |
| A1138日－22801 |  | 4 | R116，R191，R216，R291 |
| A1136日－39231 | $392 \mathrm{~K} 0.18 \mathrm{~W} 1 \%$ CHIP 0日05 | 6 | R22．R23．R102．R180．R202．R2日0 |
| A1136日－49901 | 499 OHM 0．10w $1 \%$ CHIP 0日05 | 2 | R103．R283 |
| A1136B－49921 |  | 2 | R126，R226 |
| A1136B－51111 | $5.11 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} 1 \%$ LHIP 0日05 | 6 | R113．R175，R213．R275．R315．R415 |
| A11368－57621 | 57． 5 K D．10W 1\％CHIP 0805 | 4 | R20．R24，R190．R290 |
| A11388－60432 | 604K OHM 0．125W $1 \%$ CHIP 120 E | 4 | R174，R192，R274，R292 |
| A1138日－61911 | 8．19K D．10W 1\％CHIP 0805 | 2 | R197． A 297 |
| A1138日－6日121 | 6日． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ EHIP | 3 | R12．R115．R215 |
| A1136日－69811 | 6．S日K OHM 日．10w $1 \%$ CHIP D日ES | 1 | R5 |
| A1136日－75R03 | 75 OHM 0．25W 1\％CHIP 1210 | 2 | R145，R245 |
| A1136日－71511 | 7.15 K OHM 0．10W 1\％CHIP 0日®5 | 1 | R18 |
| A1136日－82511 | $8.25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0B05 | 3 | R17．R114．R214 |
| A1135日－90921 | 90．9K 0．10w 1\％CHIP 0805 | 4 | R120，R178，R220，R278 |
| A11388－93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R6 |
| A11389－102J2 | 0．B01 UF 50V 5\％NPO MLC 0805 | 2 | C134．C234 |
| A11389－120k2 | 12PF 50V 10\％NPO 0日05 T／R | 5 |  |
| A1 1389－270K2 | 27PF 50V 10\％NPO 0日05 T／R | 2 | と107．C207 |
| A11369－330」2 | 33PF 50V 5\％NPO ML．C 0805 | 2 | C142．C242 |
| A11389－471 K2 | 470PF 50V 10\％NPO 0805 T／R | 4 | C110，С141，C210，C241 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version

| CRDWN <br> 171 BEST MISHAWAKA ROAD |  |  | INTERNATIONAL <br> ELKHART，INDIANA 45517 <br> PHONE |  |  | INC． <br> （219） 294 －a00a |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | DWG．NO． | $1 \square 214 \square-9$ |  | 20 |  | REV |
| PROJ． | MD390D6 |  |  |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－0RD2 | 0.0 OHM J UMPER LHIP 1206 | 4 | R199．R299．8323，R423 |
| A11371－0R21 | 0.2 OHM 日．10W 5\％CHIP 0 O®5 | 3 | R14．R15．R33 |
| A11371－1011 | 100 OHM 日．10W 5\％LHIP 0日05 | 3 | R13，R147，R247 |
| A11371－1013 | 180 OHM ．25W 5\％1210 SMT T／R | 2 | R322， 2422 |
| A11371－1022 | 1 K 日． $125 \mathrm{~W} 5 \%$ CHIP 1205 | 1 | R日 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R13日．R144．R238．R244 |
| A11371－1331 | 13 K OHM D． $10 \mathrm{~W} 5 \%$ CHIP 0805 | 4 | R1 46．R161．R246．R281 |
| A11371－1501 | 15 OHM 0．10W 5\％EHIP | 2 | R160．R260 |
| A11371－1日11 | 180 OHM B．10W 5\％CHIP | 4 | R14日，R163．R24B，R263 |
| A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2．2K 1W 5\％CHIP 2512 | 1 | R2 |
| A11371－2R71 | 2.7 DHM ． $1 \mathrm{~W} 5 \%$ 0B05 T／R | 3 | C606． $6607 . \mathrm{C608}$ |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | R4．R19 |
| A1：371－3333 | 33K ロ．25W 5\％LHIP 1210 | 6 | R119．R140，R143．R219．R240．R243 |
| A11371－3341 | 330 K 0.10 W 5\％EHIP 0日0 | 7 | R3，R11，R26．R117，R217，R314， |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | 4 | R317，R318，R417，R418 |
| A11371－4701 | 47 OHM D．10W 5\％LHIP | 2 | R162．R262 |
| A11371－4724 | 4．7K OHM D．50W 5\％CHIP 2010 | 2 | R142，R242 |
| A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 2 | R32．R34 |
| A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | 4 | R150，R165，R250，R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6日14 | 5日0 OHM 0．50W 5\％CHIP | 6 | R105．R1 28．R181．R205．A22日，F281 |
| A11371－6821 | 6．日K $0.10 \mathrm{~W} 5 \%$ CHIP 日BD5 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R2日． 1133.2233 |
| A11371－8201 | 82 OHM 0．10W 5\％CHIP | 4 | R136，R194，R236，R294 |
| A11371－8205 | 82 OHM 1W 5\％CHIP 2512 | 1 | R607 |
| A11371－日211 | 820 OHM 0．10W 5\％CHIP | 6 | R129．R141．R195．R229，R241，R295 |
| A11378－A850U | WIRE． 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－［050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | 4 | C109．c111．c209．c211 |
| A11427－103K5 | 0.01 MF 50 V 5\％$\times 7 \mathrm{R} 1205$ | 2 | C143，C243 |
| A11427－104K2 | 0.1 MF 50V 10\％0805 | 33 | C2，C6，C7，C12，C24，C25，C28，C29， |
|  |  |  | C115．C122．C12B．С127，С128． |
|  |  |  | C129，ᄃ136．C131．C132．c133， |
|  |  |  | ᄃ139，ट215．c222．ᄃ226．C227． |
|  |  |  | C228，C229，c230，ᄃ231，ᄃ232， |
|  |  |  | C233，ᄃ239， $5505.5506, ~ C 605 . ~$ |
| A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | 2 | C．112．C212 |
| A11427－272K2 | 270日PF 50V 10\％CHIP D日05 | 2 | C117，ट217 |
| A11427－472K2 | 470日PF 50V 10\％×7R 0805 | 4 | C116．C113．C216．C219 |
| A12125－3140K | WIRE， 22 WHT $3 / 16 \times 14 \times$ FAST | 1 | WP6 |
| C 2851－1 | 1N4004 SILICON RECT． | 7 | D1．D2，D3，D4，D6，D7，D10 |
| C 3510－2 | CHOKE，47BUH 10\％AXIAL | 4 | L100．Li01，L20日．L201 |
| C 3549－0 | DIDDE ZENER，10V．1N5240B | 1 | DB |
| C 3679－5 | 33LF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35V VERT | 2 | C4．C5 |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document Has Been Replaced with a Newer Version

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESERIPTION | OTY | REFERENCE DESIGNATION |
| C 5095－2 | POS． 15 VOLT REG． | 1 | ப1 |
| ᄃ 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| ᄃ 6BE2－0 | 47 MF 50 V AX CERM | 2 | С102． 5202 |
| C 7091－9 | 0.33 MF 50 V CHIP 1206 | 3 | C22，C140．c240 |
| C 7325－1 | 2P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 744日－1 | MMET3904 CHIP NPN | 8 | Q100．0101．0129．Q208，0201．Q229 |
| C 8262－5 | MC33078D DUAL LO NOISE OP AM | 4 | ப4．ப5．ப105．ப205 |
| C 8576－8 | 10』 MF 35V 10\％ELEC | 1 | C26 |
| C 9012－3 | MC33879D OUAD LO NOISE OP AM | 3 | ப101．ப201． |
| C 9838－8 | COMPARATQR，QUAD LM339D 50－1 | 4 | ப182．ப104．U202，ப204 |
| C 9157－6 | $100 \mathrm{LF} 15 \mathrm{~V} 20 \%$ NP ELEC RAD T／ | 2 | C123． 5223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | 0104，0204 |
| C．9283－0 | DIODE，INS14／1N4148 SOT－23 5 | 56 | D9，D13．D101．D102．D103，D104． |
|  |  |  | D105，D106．D107，D10B，D109． |
|  |  |  | D110．D111．D112，D113，D116． |
|  |  |  | D117．D11日．D119．D120．D121． |
|  |  |  | D122，D123．D124，D125，D126， |
|  |  |  | D127，D12日．D129，D130．D201． |
|  |  |  | D202．D203，D204，D205，D206． |
|  |  |  | D207，D208．D209，D210，D211． |
|  |  |  | D212．D213，D216．D217．D21日， |
|  |  |  | D221．D222．D223，D224，D225． |
|  |  |  | D228，D227．D228，D229．D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP38，TP39 |
| C 3918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | U1×，U2X |
| C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－ | 6 | Q102．0109，0111．0202．0209，प211 |
| C10196－1 | 2．2MF 50V 20\％RAD T／R | 4 | C121，C124．C221，C224 |
| C10208－4 | 1 可 MF 25V 20\％VERT ELEC | 2 | C105， 2205 |
| C10422－1 | DIODE． 3 A 400 V IN5404 AXIAL | 4 | D114，D115．D214，D215 |
| C10613－5 | IK TOP ADJUST TRIMMER T／R | 2 | R134，R234 |
| D 6917－3 | 8200UF 110 VDC ELECTROLYTIC | 2 | С20．こ21 |
| H42902－9 | ASM，THERMAL SENSE | 2 | U106． 1206 |
| 101016－1 | L日L，BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON，AUTO INSERTABLE | 3 | WP4，WP5，WP7 |
| 101571－1 | HDR 2 POS ． 1 LTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | 」 2 |
| 101993－1 | JACK，6P4 COND MODLLAR R／A | 1 | J 5 |
| 102138－9 | PW日，CEIVQQ／CE2DDB MAIN／INPU | 1 | 1 |
| 10243日－101k2 | 1 日QPF 20日V 10\％NPO D日®5 | 8 | C104，ᄃ120，С135．ᄃ204．C220，С235 |
| 10243日－560k2 | 55PF 200V 10\％NPO 0805 | 4 | C106． $2206.5504, ~ ट 604 ~$ |
| 10243日－820K2 | 日2PF 200V 10\％NPO 0日05 | 4 | ᄃ10日．С13日．С20日．С238 |
| 102455－1 | 47UF 50V 20\％RADIAL T／R | 2 | C1日1．ट201 |
| 102466－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102457－1 | 22MF 25V $20 \%$ RAD T／R | 4 | C103．C203．C503．C603 |
| 102468－1 | $47 \mathrm{LF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | 4 | C113．L114．C213．C214 |
| 102470－1 | INDLCTOR， 2.75 LH 11 A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR，12POS 2．5MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，16POS ． 100 CTR SGL ROW | 1 | J 3 |

## INACTIVE

For Reference Use Only
Document Has Been Replaced with a Newer Version

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESERIPTION | QTY | REFERENCE DESIGNATION |
| 102473－1 | SPEAKON， 4 POLE PC日 HORZ | 2 | 」100．」200 |
| 102475－1 | 日LOCK， 5 POS TERMINAL | 1 | TB1 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1．E101．E2日1 |
| 102477－1 | LED．SMT R／A RED | 4 | E1日R，E102，E20日，E202 |
| 10247B－1 | TRIAC DRIVER SES 日V THRESH | 2 | Q132，Q232 |
| 102479－1 | PWR MJD112 NPN DARLINGTON 10 | 3 | Q1．02．03 |
| 1024日0－1 | FET，N－CH 25V 50MA SOT－23 | 2 | 0133.0233 |
| 1024日－ 1 | NPN 25V LOW NOISE SOT－23 | 2 | 口10日，Q20日 |
| 1024日3－1 | PNP 300V 500MA 50T－23 | 2 | Q103．Q203 |
| 1024日6－1 | OPTO B．JT NPN SOIC－8 CTR＝100 | 1 | U3 |
| 102488－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102573－3 | HS ASM，T2 ISOLATED CH1， | 1 | HS 3 |
| 102574－3 | HS ASM，T2 ISOLATED CH2，． | 1 | H54 |
| 102575－3 | HS ASM．T2 NON－ISOLATED CHi． | 1 | HS 1 |
| 102576－3 | HS ASM．T2 NON－ISOLATED CH2． | 1 | HS 2 |
| 18257日－1 | SPACER． $6 \times .125 \mathrm{AL}$ 日LK ANODIZ | 日 | HW1，HW2，HW3，HW4，HW5，HWE，HW7． |
|  |  |  | HW8 |
| 102579－1 | STAND， $1 / 4$ RD SWAGE AL | 2 | HW25．HW2G |
| 102595－3 | POT，5K LIN 21 DNT 12 MM HORI | 2 | R10日．R200 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 102723－2 | OPTO CELL ON＝500 OHM | 2 | U100． 1200 |
| 103180－1 | BLMPER，Ø．4＂TALL 日LK W／ADH | 3 | 7 |
| 103191－1 | 0.47 LJF Z5U 1210 20\％50V | 2 | C144．C244 |
| 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | 4 | 0107.0110 .0207 .0210 |
| 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | 4 | Q105． Q 12 D ， 0205.4220 |
| 103199－1 | 0． 4 OHM 1 W 5\％ 2512 T／R | 54 | R1．R7．R152．R153．R154．R155． |
|  |  |  | R156．R157，R159，R167，R168， |
|  |  |  | R169．R170．R171．R172，R252， |
|  |  |  | R253．R254，R255，R256．R257， |
|  |  |  | R259．R267．R26日．R269．R270． |
|  |  |  | R271．R272．R300．R301，R302． |
|  |  |  | R303．R304．R305．R306．R307． |
|  |  |  | R30日，R309，R310，R311．R312， |
|  |  |  | R40日，R401，R402，R403，R404， |
|  |  |  | R405．R406，R407，R40日，R409， |
|  |  |  | R419．R411．R412 |
| 103210－1 | 2．2UF 160 V RADIAL T／R | 4 | С136，ᄃ137，С236，С237 |
| 103331－N050R | WIRE， 16 BLK／WHT TAB $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103415－70608 | SCREW，8－32 $\times .5$ TORX PNHD SEM | 2 | HW27．HW28 |
| 125106－1 | MAC9D 8 AMP 400V TRIAC | 2 | Q131．0231 |
| 125242－1 | CAP，． $625 \mathrm{ID} \times 1^{\prime \prime}$ VINYL | 1 | 3 |
| 1254日2－1 | ADMESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 1254日3－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 125508－1 | 1 UUF 50VDC ELECTROLYTIC SMD | 2 | С3． 530 |
| 126317－1 | REL．39A 24V SPST PCB W／FAST | 2 | K100，K200 |
| 128825－1 | SILICONE．CLEAR 30Z SYRINGE | 0 | 4 |
| 126929－1 | 1／4＂TRS／XLR COMEO PCB VERT | 2 | 1500．1600 |

## INACTIVE

For Reference Use Only
Document Has Been Replaced with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| PEF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 102465－1 | 10UF 250V 20\％RADIAL T／R | 」 8 |
| C2 | A11427－904K2 | 0．1 MF 50V 10\％0805 | F $3^{*}$ |
| C3 | 12550B－1 | 1 QUF S0VDC ELECTROLYTIC SMD | I 8 |
| C． 4 | ［ 4477－3 | 470 MF 35 V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35V VERT | G 9 |
| C6 | A11427－104K2 | 0.1 MF 5日V 10\％ 0805 | H 10＊ |
| C7 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | H $\mathrm{S}^{*}$ |
| C12 | A11427－1日4K2 | 0.1 MF 50V 10\％0805 | I $\mathrm{S}^{*}$ |
| C20 | D 8917－3 | 8200LF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 820ロUF 110VDC ELECTROLYTIC | 日 9 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | N ${ }^{*}$ |
| C． 24 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N 9＊ |
| ᄃ25 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | 0 9＊ |
| C26 | C 8576－8 | 10ロ MF 35V 1b\％ELEC | 13 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10 |
| C28 | A11427－104K2 | 0． 1 MF 5BV 10\％2BES | 」 ¢ $^{*}$ |
| C29 | A11427－104K2 | 0.1 MF 50V 10\％0805 | 1 3＊ |
| C30 | 125508－1 | 10UF 50VDC ELECTROLYTIC SMD | 1 日 |
| C31 | C 3679－5 | 33LF 50V 20\％VERT ELECT | I 10 |
| C101 | 102465－1 | 47UF 50V 20\％RADIAL T／A | M 9 |
| C102 | C 5902－0 | 47 MF 58 V AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 20\％RAD T／R | M 9 |
| C104 | 10243日－101K2 | 10日PF 200V 10\％NPO 0日05 | M 9 ＊ |
| C105 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－560K2 | 56PF 200V 10\％NPO 0805 | L ®＊$^{*}$ |
| C107 | A11359－270K2 | 27PF 50V 10\％NPO 0日05 T／A | L 9＊ |
| C108 | 102438－820K2 | 92PF 20®V 10\％NPO 0885 | L 10＊ |
| C109 | A11427－103K2 | 0.01 MF 50 V 10\％CHIP 0805 | H 6＊ |
| C11日 | A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | M 7 ＊ |
| C111 | A11427－103K2 | D． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ LHIP 0805 | N 日＊ |
| C112 | A11427－123K2 | 日． 012 MF 50 V 10\％CHIP | O $\mathrm{B}^{*}$ |
| C113 | 102488－1 | 47UF 19V 20\％NP RAD T／R | N B |
| C114 | 102468－1 | 47UF 10V 20\％NP fad T／R | N 8 |
| C115 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N 日＊ |
| C116 | A11427－472K2 | 470日PF 50V 10\％×7R 0日05 | N ${ }^{*}$ |
| C117 | A11427－272K2 | 270日FF 50V 10\％LHIP 0805 | I 7＊ |
| C118 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | I B |
| C119 | A11427－472K2 | 4700PF 50V 10\％×7R 0日05 | I $7^{*}$ |
| C120 | 102438－101K2 | 100PF 200V 10\％NPO B日05 | I 7＊ |
| C121 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 68 |
| C122 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | F $\mathrm{B}^{*}$ |
| C123 | C 9157－6 | $100 \mathrm{UF} 16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／R | $F 8$ |
| C． 124 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | L 9 |
| C126 | A11427－104K2 | 0． 1 MF 50V 10\％0B05 | N 10＊ |
| C127 | A11427－104K2 | 0． 1 MF 50V 10\％D日05 | N 9＊ |
| C128 | A11427－104K2 | Q． 1 MF 50V 10\％0005 | M 10＊ |
| C129 | A11427－104K2 | 0.1 MF 50V 10\％0805 | M \％$^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Repiaced wilh a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C130 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H 8＊ |
| C131 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H 7＊ |
| C132 | A11427－104K2 | D． 1 MF 50 V 10\％0805 | F 7＊ |
| C133 | A11427－104K2 | 0．1 MF 50V $10 \% 0805$ | F 8＊ |
| C134 | A11369－102」2 | 0． 0 ，1LF 50V 5\％NPO MLC 0805 T／ | M 7＊ |
| C135 | 10243E－101K2 | 18DPF 2BOV 10\％NPO D日QS | N 7＊ |
| C136 | 103210－1 | 2．2UF 160V RADIAL T／R | I 7 |
| ᄃ137 | 103210－1 | 2．2UF 160V RADIAL T／R | I 7 |
| ᄃ13日 | 10243日－820K2 | B2PF 20日V 10\％NPO 0日05 | M 7 ＊ |
| C139 | A11427－184K2 | 0． 1 MF 50V 10\％0805 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | L 3 |
| C141 | A11369－471K2 | 470PF 5®V 10\％NPO D日05 T／R | N 10 |
| C142 | A11389－330」2 | 33PF 50V 5\％NPO MLC 0805 | M 10 |
| C143 | A11427－103K5 | D． $\mathrm{B1}$ MF 50V 5\％×7R 120 B | M 9＊ |
| C144 | 103191－1 | 0.47 LF Z5U $121020 \% 50 \mathrm{~V}$ | G 7＊ |
| C201 | 102455－1 | $47 \mathrm{UF} 50 \mathrm{~V} 20 \%$ RADIAL T／R | J 9 |
| C202 | ᄃ 6802－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | $k 9$ |
| C204 | 102438－101k2 | 100PF 200V 10\％NPO 0805 | J O＊$^{*}$ |
| C205 | C10208－4 | $10 \square \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| C206 | 102438－568K2 | 56PF 200V 10\％NPO 0805 | 」 ®＊$^{\text {J }}$ |
| ᄃ207 | A11369－270K2 | 27PF 50V 10\％NPO 0日85 T／R | 」 9＊ |
| c208 | 10243日－820K2 | 日2PF 20日V 10\％NPO 0805 | 」 10＊ |
| C209 | A11427－103K2 | 0．01MF 50V 10\％CHIP U日®5 | H 3＊ |
| C210 | A11369－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0 \mathrm{BO} 5 \mathrm{~T} / \mathrm{R}$ | K 7＊ |
| C211 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ टHIP B日®5 | K 7＊ |
| C212 | A11427－123K2 | 0.012 MF 50 V 10\％CHIP | L 日＊ |
| C213 | 102468－1 | 47UF 1日V 20\％NP RAD T／R |  |
| C214 | 10246日－1 | 47UF 10 V 20\％NP RAD T／R | $K$ 晶 |
| C215 | A11427－104K2 | D． 1 MF 50V 10\％D805 | K 日＊ |
| C216 | A11427－472K2 | 470ロPF 50V 10\％$\times 780805$ | Ј 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％［HIP 0B05 | D 1＊ |
| C21日 | A10434－104JD | D． 1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | E 1＊ |
| C220 | 10243日－101K2 | 100PF 200V 10\％NPO 0805 | D 2＊ |
| ᄃ221 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | E B |
| C222 | A11427－104K2 | D． 1 MF 50V 10\％0905 | E 自＊ |
| C223 | C 9157－6 | 100UF 16V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． 2 MF 50 V 2日\％RAD T／R | 」 9 |
| ᄃ226 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | K 10＊ |
| C227 | A11427－104K2 | D． 1 MF 50V 10\％2日05 | K 9＊ |
| C22日 | A11427－104K2 | Q． 1 MF 50V 10\％0日05 | J 10 ＊ |
| ᄃ229 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | 」 ＊＊$^{\text {d }}$ |
| C230 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | E $日^{*}$ |
| C231 | A11427－104K2 | 0.1 MF 50V $10 \%$ 0805 | E $7 *$ |
| C232 | A11427－104K2 | D． 1 MF 50V 10\％0005 | E 7＊ |
| C233 | A11427－104K2 | 0.1 MF 50V 10\％0805 | D $B^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version



PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| D109 | C 9283－0 | DIODE．INS14／1N414日 SOT－23 5MT | N 日＊ |
| D110 | C．9283－8 | DIODE， $1 \mathrm{NG} 14 / 1 \mathrm{~N} 414 \mathrm{\theta}$ SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D111 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D112 | ᄃ 9283－0 | DIODE，1NS14／1N414日 SOT－23 SMT | N 日＊ |
| D1：3 | C 9283－0 | DIDDE，1NS14／1N414日 SOT－23 SMT | N 日＊ |
| D1 14 | C10422－1 | DIODE，3A 400V 1 N5404 AXIAL | I 6 |
| D1 15 | C10422－1 | DIODE，3A 400V 1 N5404 AXIAL | I 5 |
| D116 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | G $日^{*}$ |
| D117 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | M 10＊ |
| D11日 | ᄃ 9283－0 | DIODE，1NS14／1N414日 SOT－23 SMT | N 10＊ |
| D119 | C 9283－0 | DIODE，1NG14／1N4148 SOT－23 SMT | $1{ }^{*}$ |
| D120 | ᄃ 9283－0 | DIODE，1N914／1N414B SOT－23 SMT | I 9＊ |
| D121 | ᄃ 9283－0 | DIODE，1N914／1N4148 SDT－23 5MT | L 9＊ |
| D1 22 | C 9283－0 | DIDDE，1N914／1N4148 SOT－23 SMT | M $9^{*}$ |
| D123 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 5MT | G 9＊ |
| Di24 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | G 7＊ |
| D125 | C 9283－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | H 7＊ |
| D126 | ᄃ 9283－8 | DIQDE，1N914／1N4148 SOT－23 SMT | M 7 |
| D127 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | M 8 |
| D128 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | G 7＊ |
| D129 | C 92日3－0 | DIODE，1NS14／1N4148 SOT－23 SMT | G \％＊$^{\text {\％}}$ |
| D130 | C 92日3－0 | DIODE．1N914／1N4148 SOT－23 SMT | M 9 |
| D201 | C 92日3－0 | DIODE．1NS14／1N4148 SOT－23 SMT | K 9＊ |
| D202 | C 92日3－0 | DIODE．1N914／1N414日 50T－23 SMT | K 9＊ |
| D203 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 5MT | 」 $9^{*}$ |
| D204 | C 32日3－0 | DIODE，1N914／1N4148 SOT－23 5MT | 」 $9^{*}$ |
| D205 | C 92日3－0 | DIODE，\｛NG：4／1N414日 SOT－23 SMT | J \％＊$^{*}$ |
| D20台 | C 9283－0 | DIODE，1NS14／1N414日 SOT－23 5MT | K $B^{*}$ |
| D207 | C 9283－a | DIODE，1N914／1N414日 SOT－23 SMT | K $B^{*}$ |
| D20日 | C 9283－0 | DIODE，1NG14／1N414日 5OT－23 SMT | K 7＊ |
| D209 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K $\mathrm{B}^{*}$ |
| D210 | C 9283－0 | DIODE，INS14／1N414日 SOT－23 SMT | K $8^{*}$ |
| D211 | C 9283－0 | DIODE，1N314／1N414日 SOT－23 5MT | K $\mathrm{B}^{*}$ |
| D212 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | K $B^{*}$ |
| D213 | C 92日3－0 | DIODE，iN914／1N414日 SOT－23 SMT | K 8＊ |
| D214 | C10422－1 | DIODE，3A 400V 1 N5404 AXIAL | I 3 |
| D215 | C10422－1 | DIODE， 3 A 400 V 1 N 5404 AXIAL | 12 |
| D216 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | E $8^{*}$ |
| D217 | C 92日3－0 | DLODE，iN914／1N414日 SOT－23 SMT | K 10＊ |
| D218 | C 92日3－0 | DIODE，1N314／1N414日 SOT－23 SMT | L 10＊ |
| D221 | C 9283－0 | DIODE．1N914／1N414日 50T－23 5MT | J ＊$^{*}$ |
| D222 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | K $9^{*}$ |
| D223 | C 92日3－ロ | DIODE，1N914／1N414日 SOT－23 SMT | E 9＊ |
| D224 | C 9283－0 | DIODE，1N914／1N414日 50T－23 5MT | E 7＊ |
| D225 | C 9283－a | DIODE，1N914／1N414日 SOT－23 SMT | F 7＊ |
| D226 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 7 |
| D227 | C 9283－0 | DIODE，iNG14／1N414B SOT－23 SMT | K 8 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has been Replaced with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D22日 | C 9283－0 | DIODE． 1 NS14／1N4148 SOT－23 SMT | E 7＊ |
| D229 | C 92日3－0 | DIQDE，1N914／1N4148 SOT－23 SMT | F $6^{*}$ |
| D230 | ᄃ 9283－0 | DIODE，1N914／1N4！48 SOT－23 SMT | K 9 |
| E1 | 10247E－1 | LED．SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED，SMT R／A RED | J 1 |
| E101 | 102476－1 | LED，SMT R／A GREEN | 」 1 |
| E102 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E201 | 102476－1 | LED，SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED．SMT R／A RED | M 1 |
| HS 1 | 102575－3 | HS ASM．T2 NON－ISOLATED CH1． | L 6 |
| HS2 | 102576－3 | HS ASM，T2 NON－ISOLATED CH2． | L 3 |
| HS3 | 102573－3 | HS ASM．T2 ISOLATED CH1． | G 6 |
| HS 4 | 102574－3 | HS ASM．T2 ISOLATED CH2． |  |
| HW1 | 10257日－1 | SPACER， $6 \times .125$ AL 日LK ANDDIZED | A 4 |
| HW2 | 102578－1 | SPACER．6X． 125 AL BLK ANODIZED | A 4 |
| HW3 | 102578－1 | SPACER，EX． 125 AL 日LK ANDDIZED | A 4 |
| HW4 | 102578－1 | SPACER． $6 \times .125$ AL 日LK ANODIZED | A 4 |
| HW5 | 102578－1 | SPACER，EX． 125 AL 日LK ANDDIZED | A 4 |
| HWG | 102578－1 | SPACER， $6 \times 125$ AL 日LK ANODIZED | B 4 |
| HW7 | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANODIZED | B 4 |
| HWE | 102578－1 | SPACER．GX． 125 AL 日LK ANODIZED | B 4 |
| HWg | A10020－7 | 6－32 $\times .625$ PCE CAPTIVE STLD | D 5 |
| HW10 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | I 6 |
| HW1 1 | A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PC日 CAPTIVE STUD | 13 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 」 5 |
| HW1 4 | A1902日－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 6 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW1 6 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 3 |
| HW1 7 | A11055－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1 日 | A11055－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW19 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW20 | A11055－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW2 1 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW22 | A11056－1 | 5－32 HEX NUT W／日ELLEVILLE | 日 4 |
| HW23 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | B 4 |
| HW2 4 | A11055－1 | 5－32 HEX NUT W／日ELLEVILLE | B 4 |
| HW25 | 102579－1 | STAND． $1 / 4$ RD SWAGE AL | A 4 |
| HW2E | 102579－9 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW27 | 103415－70608 | SCREW．6－32 $\times .5$ TORX PNHD SEM | A 4 |
| HW2日 | 103415－70608 | SCREW， $5-32 \times .5$ TORX PNHD SEM | A 4 |
| J2 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J3 | 102472－3 | HDR，16POS． 100 LTR SGL ROW | M 8 |
| J 4 | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J5 | 101993－1 | JACK．6P4 COND MODULAR R／A |  |
| J100 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| J200 | 102473－1 | SPEAKON． 4 POLE PCB HORZ | F 10 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| 」500 | 126929－1 | 1／4＂TRS／XLR COMBO PCB VERT | 日 3 |
| 」502 | 102471－2 | HDR，12POS 2.5 MM RT ANG KEYED |  |
| J600 | 126929－1 | 1／4＂TRS／XLR COMBO PCE VERT | B 1 |
| K100 | 126317－1 | REL．30A 24V SPST PCE W／FASTON | G 9 |
| K200 | 126317－1 | REL． 30 A 24V SPST PCB W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE，470பH 10\％AXIAL | N 7 |
| L101 | ᄃ 3510－2 | CHOKE，470UH 10\％AXIAL | I 7 |
| L182 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | H |
| L200 | C 351日－2 | CHOKE， 470 UH 10\％AXIAL | J 1 |
| L201 | ᄃ 3510－2 | CHOKE，470பH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR， 2.75 UH 11 A RADIAL | I 1 |
| Q1 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| 02 | 102479－1 | PWR MJDi 12 NPN DARLINGTON 100V | I 10 |
| Q3 | 102479－1 | PWR MJD112 NPN DARL．INGTON 10日V | I 10 |
| 0100 | C 7448－1 | MMBT3994 CHIP NPN | M 9＊$^{*}$ |
| 0101 | C 7448－1 | MMET3904 LHIP NPN | M 9＊ |
| Q102 | C 9931－4 | MMET5087LT1 PNP XSISTOR 50T－23 | N 9＊ |
| Q103 | 102483－1 | PNP 300V 500MA SOT－23 | L $\mathrm{S}^{*}$ |
| Q184 | ᄃ 9252－5 | 2N3904 40V NPN TRANSISTOR | I 6 |
| Q185 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | M 7 ＊ |
| Q187 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | M 7 ＊ |
| Q10日 | 102481－1 | NPN 25V LOW NOISE SOT－23 | N 8＊ |
| Q189 | ᄃ 9931－4 | MM日T50日7LT1 FNP $\times$ S ISTOR SOT－23 | N $\mathrm{Q}^{*}$ |
| Q110 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | N 7＊ |
| Q111 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q1 1 2 | 103200－1 | NPN 230V 15 A 30MHZ 25 C 5242 | N 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Q120 | 103193－1 | PNP 300V 50®MA 50MHZ SOT－223 | I 7＊ |
| 0121 | 10320日－1 | NPN 230V 15A 30MHZ 25 C5242 | I 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Q129 | C 744日－1 | MMET3904 LHIP NPN | 6 9＊ |
| Q1 31 | 125185－1 | MAC9D 6 AMP 40DV TRIAC | F 9 |
| Q132 | 102478－1 | TRIAC DRIVER SBS 8 V THRESH | F 9 |
| 0133 | 1024日0－1 | FET．N－LH 25V 50MA 5OT－23 | M O＊$^{*}$ |
| Q200 | C 7448－1 | MM日T3904 LHIP NPN | K $9^{*}$ |
| Q201 | C 7448－1 | MMET3904 CHIP NPN | K $9^{*}$ |
| 0202 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replaced


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| Q203 | 1024日3－1 | PNP 30日V 50日MA SOT－23 | 」 ＊$^{\text {a }}$ |
| O204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| Q205 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 」 7 ＊ |
| 0207 | 103192－1 | NPN 30QV 500MA 50MHZ 50T－223 | K 7＊ |
| ロ208 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| Q209 | C 9931－4 | MMBT50日7LT1 PNP XSI5TOR SOT－23 | K $日^{*}$ |
| Q210 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | 」 $2^{*}$ |
| Q211 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | 」 ${ }^{*}$ |
| 0212 | 103200－1 | NPN 230V 15A 30MHZ 2SC5242 | 」 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Q220 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | D 2 ＊ |
| Q221 | 103200－1 | NPN 230V 15A 30MHZ 25C5242 | D 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0229 | C 7448－1 | MMET3904 CHIF NPN | E 9＊ |
| Q231 | 125106－1 | MAE9D \＆AMP 400V TRIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER SES OV THRESH | F B |
| 0233 | 102480－1 | FET．N－LH 25V 50MA SOT－23 | 」 S＊$^{\text {J }}$ |
| R1 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | J $B^{*}$ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 」 $8^{*}$ |
| R3 | A11371－3341 | 330K 0．10W 5\％LHIP 0805 | I $B^{*}$ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊ |
| R5 | A11368－69811 | 6．98K OHM 0．10W 1\％CHIP 0a05 | D $\mathrm{B}^{*}$ |
| R6 | A11368－93111 | 9．31K $0.1 \mathrm{~W} 1 \%$ CHIP 0.05 | D $日^{*}$ |
| R7 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | 」 $8^{*}$ |
| Ra | A11371－1022 | 1 K 日． $125 \mathrm{~W} 5 \%$ CHIP 1206 | N 10＊ |
| R9 | A11368－10921 | 10K 1／10W 1\％CHIP 0805 | H 9＊ |
| R10 | A11368－20923 | 20K B．25W 1\％CHIP 1210 | H S＊ |
| R11 | A11371－3341 | 330K 0．10W 5\％CHIP 0日05 | I ®＊$^{*}$ |
| R12 | A11368－68121 |  | $19^{*}$ |
| H13 | A11371－1011 | 100 OHM 0．10W 5\％LHIP 0日05 | I 10＊ |
| R14 | A11371－RR21 | 0． 2 OHM 0．10W 5\％CHIP 0日05 | I 10＊ |
| R15 | A11371－RR21 | 0．2 OHM 0．10W 5\％CHIP 0日05 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | F 10＊ |
| R18 | A11368－71511 | 7．15K OHM 0．10W 1\％CHIP 0日05 | D $\mathrm{日}^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I $1^{*}$ |
| F20 | A11368－57621 | 57．6K 0．10W 1\％CHIP 8日も5 | I $\mathrm{S}^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document Has Been Replaced with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOL |
| R21 | A11368－12121 | 12.1 K DHM 0．10W $1 \%$ CHIP 0805 | J ＊＊$^{\text {＊}}$ |
| R22 | A11358－39231 | 392K 0．10W 1\％CHIP 0805 | I ${ }^{*}$ |
| R23 | A11368－39231 | 392K 0．10W 1\％CHIP 0日05 | I 9＊ |
| R24 | A11368－57621 | 57．6K 0．10W 1\％CHIP 0日05 | I 9＊ |
| R25 | A11368－10031 | 100K 0．1W 1\％CHIP 0BES | N 9＊ |
| R25 | A11371－3341 | 330K 0．10W 5\％LHIP 0805 | A 9＊ |
| R27 | A11368－20021 | 20K 1／10W 1\％CHIP 0日05 | L ®＊$^{*}$ |
| R28 | A11371－7511 | 750 OHM 0．10W 5\％［HIP | L 9＊ |
| R29 |  | DPEN | 旦 2 |
| R30 | A）1368－10031 | 100K 0．1W 1\％CHIP 0日05 | I $0^{*}$ |
| R3 1 | A11368－10031 | 100K 0．1W 1\％CHIP 0日05 | 」 $8^{*}$ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 」 8 |
| R33 | A11371－0R21 | 0.2 OHM 0．10W 5\％LHIP 0805 | I 10＊ |
| R34 | A）1371－5615 | 560 DHM 1W 5\％ 2512 T／R | J B |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11368－10011 |  | M 10＊ |
| R102 | A11368－39231 | 392K D． 10 W 1\％CHIP 0805 | N 9＊ |
| R103 | A11368－49901 | 499 OHM 0．10W 1\％CHIP 0805 | N 9＊ |
| F104 | A11368－10021 | 10K 1／10W 1\％CHIP 0日®5 | N $\mathrm{G}^{*}$ |
| R105 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| F106 | A11368－10811 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ D日05 | M 9＊$^{*}$ |
| R107 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | L 10＊ |
| R108 | A113EB－10021 | 10K 1／10W 1\％CHIP 0日05 | L 10＊ |
| R109 | A1 1368－19122 | 19．1K D．125W 1\％LHIP 1205 | M 9＊ |
| R110 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | L 9＊ |
| R111 | A11368－10821 | 10K 1／10W 1\％CHIP 0日05 | L 9＊$^{*}$ |
| R112 | A10265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | L． 9 |
| R113 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP D日® | L 10＊ |
| R114 | A11368－82511 | 8．25K 8．1W 1\％CHIP 0805 | L 10＊ |
| F1 15 | A1；368－68121 | 68．1K 0．10W 1\％［HIP | L 10＊ |
| R116 | A1 13E日－22E01 | 226 OHM 0．10W 1\％CHIP ge日s | M 9＊ |
| R117 | A11371－3341 | 330K 0．18W 5\％CHIP 0805 | M 9＊ |
| R118 | A1136日－10221 | 10．2K 0．10W 1\％CHIP 0日05 | M 10 |
| R119 | A11371－3333 | 33K D．25W 5\％LHIP 1210 | M 9＊ |
| A120 | A1136日－90921 | 90．9K 0．10W 1\％EHIP D日Q5 | M 9＊ |
| F121 | A1136日－10621 | 10K 1／10W 1\％CHIP 0805 | M 10 |
| R122 | A1136日－15831 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R123 | A1136日－10831 | 100K 0．1W 1\％CHIP 0a05 | M 日＊$^{*}$ |
| R124 | A1136日－15831 | 158K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | M 9＊ |
| A1 25 | A1136日－10031 | 108K 0．1W 1\％CHIP 0805 | N 9＊ |
| R126 | A11368－49321 | $49.9 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | M $9^{*}$ |
| R127 | A11371－6日21 | 6．8K 0．10W 5\％CHIP 0805 | N $9^{*}$ |
| A128 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | J 1＊ |
| R129 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | $0 B^{*}$ |
| R131 |  | OPEN | $08^{*}$ |
| R132 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 6＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE



## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| :---: | :---: | :---: | :---: |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％LHIP | H 6＊ |
| F134 | C10613－5 | IK TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A1 1371－3923 | 3．SK 0．25W 5\％EHIP | M 7＊ |
| R136 | A11371－6201 | 82 OHM 0．10W 5\％CHIP | M 7＊ |
| R137 | A1136日－15002 | 150 OHM 日． $125 \mathrm{~W} 1 \% \mathrm{CHIP}$ | N 8＊ |
| A138 | A11371－1213 | 120 OHM $0.25 \mathrm{~W} 5 \%$ CHIP | N $8^{*}$ |
| R139 | A11368－10783 | 107 OHM 0．25W 1\％CHIP | N $\mathrm{B}^{*}$ |
| R140 | A11371－3333 | 33K D．25W 5\％CHIP 1210 | N $8^{*}$ |
| R141 | A11371－8211 | 820 DHM D．10W 5\％CHIP | $08^{*}$ |
| R142 | A11371－4724 | $4.7 \mathrm{~K} \mathrm{OHM} \mathrm{0.50W} \mathrm{5} \mathrm{\%} \mathrm{CHIP} \mathrm{2010}$ | O 8＊ |
| F143 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $8^{*}$ |
| R144 | A19371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| F145 | A1136日－75RE3 | 75 OHM B．25W $1 \%$ LHIP 1210 | N 8＊ |
| F1 46 | A11371－1331 | 13 K OHM D．10W 5\％CHIP 0805 | N 7＊ |
| F1 47 | A11371－1011 | 100 OHM D．10W 5\％LHIP 0805 | N 7＊ |
| A148 | A11371－1811 | 18 O OHM D．10W 5\％CHIP | M $7 *$ |
| R150 | A11371－5R63 | 5．6 0．25W 5\％CHIP | N 6＊ |
| R152 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K $6^{*}$ |
| R153 | 103199－1 | 0． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R154 | 103198－1 | 0.4 OHM 1W 5\％ 2512 T／R | L 6＊ |
| R155 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | M 5＊ |
| F156 | 103199－1 | 0．4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6 ＊ |
| R157 | 103199－1 | 0.4 OHM 1 W 5\％ 2512 T／R | N 5＊ |
| R158 | A10266－2R74 | 2．7 OHM 2W 5\％CF | I 日 |
| R159 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D E＊ |
| R160 | A11371－1501 | 15 DHM 0.10 W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0005 | H 7 ＊ |
| R162 | A11371－4701 | 47 DHM D． 10 W 5\％CHIP | H 7＊ |
| R163 | A11371－1811 | 180 OHM D．10W 5\％LHIP | I 7＊ |
| R165 | A11371－5R63 | 5.6 0．25W 5\％CHIP | I 5＊ |
| R167 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | E 6＊ |
| R168 | 103198－1 | 0． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | F $6^{*}$ |
| R169 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | F 6＊ |
| R170 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G $6^{*}$ |
| R172 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H 6＊ |
| R174 | A11368－60432 | 604K OHM 0．125W $1 \%$ CHIP 1205 | G 8＊ |
| R175 | A11368－51111 | 5.11 K OHM 0． $10 \% 1 \%$ CHIP D日05 | G 日＊ |
| R176 | A1 1368－10021 | 18K 1／10W 1\％CHIP D805 | G $\mathrm{B}^{*}$ |
| R177 | A1135日－10021 | 10K 1／10W 1\％CHIP D日05 | H $\mathrm{B}^{*}$ |
| R178 | A11368－90921 | 90．SK 日． 10 W 1\％［HIP 0日05 | N $9^{*}$ |
| R179 | A1136日－10031 | 100K $0.1 \mathrm{~W} 1 \% \mathrm{CHIP}$ 0日0s | F 7＊ |
| F180 | A1136日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | G $8^{*}$ |
| R181 | A11371－6日14 | 5日0 OHM D．50W 5\％CHIP | 」 $1^{*}$ |
| R1日2 | A1 136B－10021 | 10K 1／10W 1\％CHIP 0日05 | F $\mathrm{B}^{*}$ |
| R183 | A1135B－10031 | 100K D． $1 \mathrm{~W} 1 \%$ CHIP 8日05 | F 8＊ |
| R184 | A1136日－20023 | 20K D．25W 1\％CHIP 1210 | F 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| R185 | A11368－10021 | 10K 1／10W 1\％CHIP 0日85 | G 8＊ |
| R186 | A1136日－10031 | 100K 日．1W 1\％LHIP 0日05 | N 10＊ |
| R187 | A1 1 36日－15831 | 158K B．10W 1\％CHIP 8日B5 | M 10＊ |
| R188 | A1 136日－15日31 | 15日K 0．10W 1\％CHIP 0日05 | N 10＊ |
| R189 | A1 136日－10031 | 100K B．1W 1\％CHIP 0805 | M 10＊ |
| R190 | A11388－57521 | $57.8 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N $\mathrm{E}^{*}$ |
| R191 | A11388－22601 | 226 OHM 0．10W 1\％CHIP 0805 | N 6＊ |
| R192 | A11368－60432 | 504K OHM 0．125W 1\％CHIP 1206 | L 9＊＊ |
| R193 | A1 1368－10021 | 18K 1／10W 1\％CHIP 0日05 | N 9＊ |
| R194 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M $7 *$ |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | M 7＊ |
| R196 | A11388－10021 | 10K 1／10W 1\％CHIP 0日05 | M 9＊ |
| R197 | A11368－61911 | 6．19K 0．10W 1\％CHIP 0805 | M 10 |
| R198 |  | OPEN | M 10 |
| R199 | A11371－bRO2 | D．D OHM JUMPER［HIP 1206 | N $\mathrm{B}^{*}$ |
| R200 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A11358－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R202 | A1 1368－39231 | 392K 0．10W $1 \%$ LHIP 0805 | L 9＊ |
| R203 | A11368－49901 | 499 OHM 0．10W 1\％CHIP 0日05 | L $\mathrm{S}^{*}$ |
| R204 | A）1368－10021 | 10K 1／10W 1\％LHIP 0日05 | L 9＊ |
| R205 | A11371－6814 | 680 DHM 0．50W 5\％CHIP | M 1＊ |
| R206 | A1136日－18011 | $1 \mathrm{~K} 0.18 \mathrm{~W} 1 \%$ CHIP D日0 | 」 ＊＊$^{\text {＊}}$ |
| R209 | A113B日－19122 | 19．1K B．125W 1\％CHIP 1226 | K 9＊ |
| R210 | A11368－10811 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0B05 | 」 $9^{*}$ |
| R211 | A1 13E日－10021 | 1日K 1／10W 1\％CHIP B805 | 」 ＊$^{*}$ |
| R212 | A16265－19121 | 19．1K 0．25W $1 \% \mathrm{MF}$ | 」 9 |
| R213 | A1136日－51111 | 5.11 K DHM 0．10W $1 \%$ CHIP 0a05 | 」10＊ |
| R214 | A1135日－62511 | 8．25K 0．1W 1\％CHIP 0日05 | 」10＊ |
| R215 | A1136日－68121 | 6B．1K 0．10W 1\％LHIP | 」 \｛吅 |
| R216 | A1136日－22601 | 226 OHM 0．10W 1\％CHIP 0805 | K $9^{*}$ |
| R217 | A11371－3341 | $330 K$ 0．10W 5\％CHIP 0日05 | 」 ${ }^{*}$ |
| R21日 | A1136日－10221 | 10．2K 0．10W 1\％EHIP 0805 | K 10 |
| R219 | A11371－3333 | 33 K 日．25W 5\％CHIP 1210 | 」 $9^{*}$ |
| R220 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0805 | K $9^{*}$ |
| R221 | A1136B－10021 | 10K 1／10W 1\％CHIP 0日B5 | K 10 |
| R222 | A1 1368－15日31 | 158K D．10W 1\％CHIP DBUS | K $\mathrm{S}^{*}$ |
| R223 | A）136日－10031 | 100K 0．1W 1\％CHIP 0日ES | K 9＊ |
| R224 | A1 1368－15831 | 15日K 0．18W 1\％LHIP 0日05 | K 9＊ |
| R225 | A11388－10031 | 100K $0.1 \mathrm{~W} 1 \%$ CHIP 0日05 | L 9＊ |
| R226 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0日05 | K 9＊ |
| R227 | A11371－6821 | 6．日K ロ．10W 5\％CHIP 0805 | K 9＊ |
| R22日 | A11371－6814 | 6BQ OHM $0.50 \mathrm{~W} 5 \%$ CHIP | M 1＊＊ |
| R229 | A1 1371－8211 | 日20 DHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K D． 25 W 5\％EHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Docurment Has Been Replaced with a Newer Version

| CROWN I |  |  | INTERNATIDNAL <br> ELKHART，INDIANA 48517 PHONE |  |  | INC． <br> （219）294－8000 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| drawn | JAW | 11／4／98 | DWG．NO． |  |  | 150 |  | REV |
| Pros | MD390D8 |  | $102140-9$ |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | $3.9 \mathrm{~K} 0.25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 」 ${ }^{*}$ |
| R236 | A11371－8201 | B2 OHM D．10W 5\％CHIP | J 7＊ |
| R237 | A1 1368－15002 | 150 OHM 0．125W 1\％CHIP | K $\mathrm{B}^{*}$ |
| R238 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A1136日－10703 | 107 OHM 0．25W 1\％［HIP | K 日＊ |
| R240 | A11371－3333 | 33K 0．25W 5\％LHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 日20 OHM 0．10W 5\％EHIP | L ®＊$^{\text {¢ }}$ |
| R242 | A 11371－4724 | 4.7 K OHM 0．50W 5\％LHIP 2010 | L 7＊ |
| R243 | A11371－3333 | 33 K 0.25 W 5\％LHIP 1210 | K 日＊ |
| R244 | A11371－1213 | 126 OHM Q．25W 5\％CHIP | K $日^{*}$ |
| R245 | A11388－75R03 | 75 DHM B．25W $1 \%$ CHIP 1210 | K 8＊ |
| R246． | A11371－1331 | 13 K OHM 日．10W 5\％CHIP 0805 | 」 $\mathbf{2}^{*}$ |
| R247 | A11371－1011 | 100 OHM 0．10W 5\％LHIP 0805 | 」 2＊ |
| R24日 | A1 1371－1811 | 1 1日0 OHM 0．10W 5\％CHIP | K $\mathbf{2 *}^{*}$ |
| R250 | A11371－5RE3 | 5.6 0．25W 5\％CHIP | 」 $\mathbf{4}^{*}$ |
| R252 | 103193－1 | 0． 4 OHM 1 W 5\％ 2512 T／R | K 4＊ |
| R253 | 103199－1 | 0． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R254 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | L 4＊ |
| R255 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M $3^{*}$ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | D 3＊$^{*}$ |
| R260 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | D 1＊ |
| R261 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | E 2＊ |
| R262 | A11371－4701 | 47 OHM D．18W 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | $5.60 .25 W 5 \%$ EHIP | E 2＊ |
| R2E7 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R268 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F ${ }^{*}$ |
| R269 | 103199－1 | 0.4 OHM 1 W 5\％ 2512 T／R | F 4＊ |
| R270 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | $63 *$ |
| R271 | 103199－1 | B． 4 OHM 1W 5\％ 2512 T／R | H $4^{*}$ |
| R272 | 103198－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A11368－60432 | 604K OHM 0．125W 1\％CHIP 1206 | E 日＊ |
| R275 | A1136日－51111 | 5.11 K OHM D． $10 \mathrm{~W} 1 \%$ CHIP 0日05 | E $日^{*}$ |
| R276 | A1 136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | E $日^{*}$ |
| R277 | A1136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | E 日＊ |
| R278 | A1136日－90921 | 90．9K 0．10W $1 \%$ CHIP 0805 | L 9＊ |
| R279 | A11358－10031 | 100K 0．1W 1\％CHIP 0805 | E 7＊ |
| R290 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | E $8^{*}$ |
| R281 | A11371－6日14 | 6日6 OHM D．50W 5\％CHIP | M 1 ＊ |
| R282 | A $1135 \mathrm{~B}-10821$ | 10K 1／10W 1\％CHIP D日05 | D $\mathrm{B}^{*}$ |
| R283 | A1 136日－10831 | 100K 0．1W 1\％CHIP 0日05 | E $\mathrm{B}^{*}$ |
| R284 | A1 136日－20023 | 20K 0．25w $1 \%$ CHIP 1210 | F 9＊ |
| R285 | A1136日－10021 | 10K 1／10W 1\％CHIP D日05 | F $\mathrm{B}^{*}$ |
| R286 | A1 136日－10031 | 100K 日．1 W $1 \%$ CHIP 0日05 | L 10＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document Has Been Replaced with a Newer Version



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R412 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | I 3＊ |
| R4 13 | A1136日－10821 | 10K 1／10W 1\％CHIP 0日05 | E 7＊ |
| R4 14 | A11371－3341 | 330K 0．10W 5\％LHIP 0805 | E 7＊ |
| R415 | A1136日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | E 7＊ |
| R416 | A113EB－10011 | 1 K D． 10 W 1\％CHIP 8日05 | K 10＊ |
| R417 | A $11371-3934$ | 39K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R418 | A11371－3934 | $39 \times$ OHM 日．50W 5\％CHIP 1210 | K 8 |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5.8 DHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.8 OHM 1W 5\％LHIP 2512 | H 1＊＊ |
| R422 | A11371－1013 | 100 OHM ． $25 \mathrm{~W} 5 \% 1210$ SMT T／R | J 9 |
| R423 | A11371－0R02 | 0.0 DHM J UMPER［HIP 1206 | F 8 |
| R500 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 3 |
| R501 | A11368－10221 | 10x 1／10W 1\％CHIP D日05 | A 2 |
| 8502 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | 日 2 |
| ค503 | A11368－10021 | 10X 1／10W 1\％CHIP D日05 | 日 2 |
| R504 | A11368－10021 | 10K 1／10W 1\％CHIP D日05 | A 2 |
| 8506 | A1136日－10021 | 10X 1／1日W 1\％CHIP 0B05 | A 2 |
| R508 |  | OPEN | C 2 |
| R606 | A1136日－10921 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R601 | A1136日－10021 | 10K 1／10W 1\％CHIP B日05 | A 1 |
| R602 | A1136日－12021 | 10K 1／10W 1\％CHIP DB05 | A 2 |
| R603 | A1 136日－10021 | 10K 1／18W 1\％CHIP D日05 | A 2 |
| R604 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | A 1 |
| RE0E | A1136日－10021 | 10K 1／10W 1\％CHIP D日05 | 日 2 |
| 8607 | A11371－8205 | 日2 OHM 1 W 5\％CHIP 2512 | A 1 |
| R608 |  | OPEN | C 1 |
| 51 | 10248日－1 | SPDT HORIZ SLIDE | L 10 |
| 52 | C 7325－1 | 2 P 2 POS．PC SLIDE SW． | L 10 |
| T81 | 102475－1 | 日LOCK． 5 POS TERMINAL | A 2 |
| TP3日 | C 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | ᄃ 9896－9 | TEST POINT LOOP | N 7 |
| U1 | C 5095－2 | POS． 15 VOLT REG． | H 10 |
| U1 $\times$ | C 991日－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |
| ப2 | ᄃ 5096－0 | NEG． 15 VOLT REG． | H 9 |
| U2X | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |
| ப3 | 1024日6－1 | OPTO EJT NPN SOIC－B CTR $=100 \%$ | N 10 |
| U4 | C 8262－5 | ML33078D DUAL LO NDISE OP AMP | I 9 |
| ப5 | ᄃ 8262－5 | MLЭ3078D DUAL LO NOISE OP AMP | N 9 |
| ப100 | 102723－2 | OPTO CELL ON－500 OHM | M 9 |
| ப101 | ᄃ 9012－3 | ML33079D QUAD LO NOISE OP AMP | M 18 |
| ப102 | C 9038－8 | COMPARATOR，QUAD LM339D SO－14 | N 9 |
| U104 | C 9038－8 | CDMPARATOR．QUAD LM339D SO－14 | G 7 |
| ப105 | C 8262－5 | MC3397日D DUAL LD NOISE OP AMP | F 7 |
| ப106 | H42902－9 | ASM，THERMAL SENSE | N 6 |
| U200 | 102723－2 | OPTO CELL ON＝50日 OHM | K 9 |
| ப2e1 | ᄃ 9012－3 | MC33079D QUAD LO NOISE DP AMP | J 10 |
| ப202 | C 9838－8 | COMPARATOR，QUAD LM339D SD－14 | K 9 |
| U204 | ᄃ 9038－8 | COMPARATOR，QUAD LM339D SO－14 | E 7 |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Documient Has Been Replaced with a Newer Version


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |  |
| :---: | :---: | :---: | :---: | :---: |
| U205 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | E 7 |  |
| U206 | H42902－9 | ASM，THERMAL SENSE | N 3 |  |
| U500 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | A 2 |  |
| WP 1 | A11378－A0504 | WIRE， 16 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | $103331-\mathrm{N050R}$ | WIRE， 16 日LK／WHT TAB $\times 5 \times 1$ | A 9 |  |
| WP3 | A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | A 9 |  |
| WP4 | 101031－1 | 250 FASTON．AUTO INSERTABLE | D 7 |  |
| WP5 | 101031－1 | ． 250 FASTON．AUTO INSERTA日LE | D 4 |  |
| WP6 | A12125－3140K | WIRE， 22 WHT 3／16×14 $\times$ FAST | J 日 |  |
| WP7 | 101031－1 | 250 FASTON，AUTO INSERTA日LE | D B |  |
| Z1 |  | OPEN | E 9 |  |
| 1 | 10213日－9 | PWB．CE1 | SEE COMP | MAP |
| 2 | 101016－1 | LEL，BARCODE． | SEE COMP | MAP |
| 3 | 125242－1 | CAP，． $6251 \mathrm{D} \times 1^{\prime \prime} \mathrm{VINYL}$ | SEE COMP | MAP |
| 4 | 126825－1 | SILICONE．CLEAR 30Z SYRINGE | SEE COMP | MAP |
| 5 | 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | SEE LOMP | MAP |
| 5 | 125483－1 | ALTIVATOR LOCTITE＂OUTPUT＂ | SEE LOMP | MAP |
| 7 | 103180－1 | BUMPER，0．4＊TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 10318日－1 | BUMPER．0．4＂TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 103180－1 | BUMPER．0．4＂TALL BLK W／ADH | SEE COMP | MAP |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

INACTIVE
For Reference Use Only
Document Has Been Replaced with a Newer Version

## Component Map

for use with
Main PWA 102140-9 rev B



| E． 5. | ZONE | REV． | DESCRIPTION | DATE | BY | APPAOVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | CHK | CM | EE | PE |
|  |  | A | INITiAl release to productionilevel ij | ｜11－04－96｜ | JAW | TLM |  |  | TS |
| 90E0796 |  | B | C608．C607，C608 WEAE B．1MF．R1，R7，R32，R34 WEAE 27日．FE WAS 8．87K．R1g WAS 7．68K．R27 WAS 18K．R25 WAS 4．7M．L106． 1200 WEAE 102723－1． | 12／14／98 | JAW | Jl |  |  | TS |
| 39ED042 |  | ［ | C605，C607．C50日 WERE 2．7 OHM．HW27，HW2日 WERE 103415－7960日． | 21－29－99 | JAW | Vu | re |  |  |

## NOTES：

1．SChEMATIC DRAWING NUMBER 102142 ．
2．PWE PART NUMGER 182138－9
3．the pwa shall meet the ipc－a－6i日＿class 2 standards．
4．all leads shall be trimmed to g．b93＂of less．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP
6．COMPONENTS that have（＊）after their map location
ARE MOUNTED ON THE BOTTOM SIDE OF THE PRINTED CIRCUIT bOARD．
7．REmOVE SOLDER or prevent solder from accumulating
in holes．
B．The vent hole on top of the relays kiog and kZeg must be opened after the cleaning process．ey eithef removing the sealing tape or cutting off the circular tas with an＂exacto＂knife or simular cutting tool．warning，this step must ee dane after the cleaning process not before！！！watef or cleaning solvents entering the felay vent hole will damage the helay．
9．CONNECT the wires that come from oiza and o223
TO WP4 AND WPS RESPECTIVELY．
18．The pwa part number for this module shall be marked on the p．c．board and shall be permanent
the pwa number，128883－2．Shall be phinted on a label and this
lagel shall be placed on the component side of the finished infut module．
11．installation of uige and luges is as follows：
i！a．REMOVE MIDDLE SLEEVE FROM TRANSISTOF H42902－9
11日．bend transistor at ge deg．flat side donn
11C．place transistor into the pwe as shown on the component map detail 8.
11D．Mix output epaxy and accelerator together． apply the mixture to the thansistor and heatsink． the mixture must fill the heatsink hole and the leads of the device．especially the center lead． （note：no visible air gaps around the transistor and the thansistor leads cannot touch the heatsink I
11E．hold the transistor abainst the heatsink until epoxy sets－up
12．TORQUE 5－32 HEX NUTS（CPN A11856－1）AS FOLLOWS：
12A．PRE－WAVE TORQUE OF 4－6 INLH LbS．
12日．POST－WAVE AND When asSembly has cooled down to handling temperature toroue of 13－15 inch les．
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPONENT MAP

$\xrightarrow[\text { For Reference Use Only }]{\text { INACTIVE }}$
these drawings and specificarions are the PAOPEATY OF CROWN INTEANATIONAL．INC．AND SHALL NOT 日E REPRODUCED．COPIED．OR USED AS THE BASIS FOR THE MANUFACTURE DR SALE OF APPARATUS OR DEVICES WI THOUT PERMISSION．

| PRI | TO | CROWN INTERNATIDNAL INC． <br> 1718 mest mishawaka road Elikhart．indiana 46517 phone（219）294－8000 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K |  | PWA．MAIN／INPUT CE2ロロD |  |  |  |  |  |  | $\begin{array}{r} \text { TOL. UNLESS SPECIFIED } \\ x . x \times \pm 0.620 \\ x . x \times x= \pm 9.010 \\ \text { DFILLS }= \pm 0.023 \end{array}$ |  |
|  |  | DRAWN | JAW | 11－04－98 | APPROVED EY： |  |  | DO NOT SCALE PRINT |  |  |
|  |  | CHECKED | TLM | 11－10－98 | ME |  |  | SUPERSEDES |  |  |
|  |  | SCALE | NONE |  | EE |  |  | E．C． |  |  |
|  |  | PROJ \＃ | MD390D6 |  | PE | TS | 11－10－98 |  | SHEET 1 OF 21 |  |
|  |  | FILENAME： $102140-9 . C . P C B$ |  |  | NEXT ASM： |  |  | 1 1214ロ－9 |  |  |

PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A10020－7 | 6－32 $\times .625$ PCE CAPTIVE STUD | 日 | HW9，HW10，HW1 1．HW1 2，HW1 3．HW1 4. |
|  |  |  | HW15，HW16 |
| A18265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R15日 |
| A10434－104JD | 0． 1 MF 250V 5\％MTL POLY | 2 | C11日，C218 |
| A11056－1 | 5－32 HEX NUT W／日ELLEVILLE | 8 | HW17．HW18．HW19，HW20，HW21． |
|  |  |  | HW22，HW23．HW2 4 |
| A11368－10011 | 1K 日．10W 1\％CHIP 0805 | 8 | R101，R106．R110．R201．R206． |
|  |  |  | R21日，R316，R415 |
| A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | 35 | R9，R104．R107．R108，R111． |
|  |  |  | R121，R176，R177．R1日2，R185， |
|  |  |  | R193．R196．R204．R211．R221． |
|  |  |  | R276．R277，R282．R2日5，R293， |
|  |  |  | R296．R313，R413．R500，R501． |
|  |  |  | R502，R503．R504．R506．R600． |
|  |  |  | R601，R602，R603，R60 4，R606 |
| A11368－10031 | 100K 0．1W 1\％CHIP 0日0s | 15 | R25．830，R31，R123．R125．R179． |
|  |  |  | R183，R186，R189，R223，R225， |
|  |  |  | R279，R2日3，R286．R2日9 |
| A11368－10221 | 10．2K 0．10W 1\％CHIP 0日05 | 2 | R118，R218 |
| A11368－10703 | 107 OHM $0.25 \mathrm{~W} 1 \%$ CHIP | 2 | R139，R239 |
| A11368－12121 | 12.1 K OHM 0．10W 1\％CHIP 0805 | 1 | R2 1 |
| A1 1368－15002 | 150 OHM 0．125W 1\％CHIP | 2 | R137，R237 |
| Al1368－15831 | 158 K 0．10W 1\％CHIP 0805 | 8 | R122．R124，R1日7，R1日日，R222． |
|  |  |  | R224，R2日7，R2日日 |
| A11368－13122 | 19．1K 0．125W 1\％CHIP 1206 | 2 | R109，R209 |
| A1136日－20021 | 20K 0．1W $1 \% 0805$ T／R | 1 | R27 |
| A1136日－20023 | 2日K ロ．25W 1\％CHIP 1210 | 3 | R10．8184．8284 |
| A1136日－22601 | 226 OHM D．18W $1 \%$ CHIP 8805 | 4 | R116．R191．R215．R291 |
| A1136日－39231 | $392 \mathrm{~K} \mathrm{D.10W} 1 \%$ CHIP 0805 | 6 | R22．R23，R102，R180，R202．R2日0 |
| A1136日－43901 | 499 OHM D． 18 W 1\％CHIP 0日05 | 2 | R103，R203 |
| A1136日－49921 | 49．9K 0．1W 1\％CHIP 0805 | 2 | R126．R226 |
| A1136日－51111 | 5.11 K OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 日805 | 6 | R113．R175．R213．R275．R315．R415 |
| A11368－57521 | 57.5 K ®．10W 1\％CHIP 0B05 | 4 | R20．R24，R190．R290 |
| A1136E－68432 | 604K OHM 日．125W $1 \%$ LHIP 1206 | 4 | R174．R192．R274．R292 |
| A11368－61911 | 6．19K 0．10W 1\％CHIP 0 O05 | 2 | R197，R297 |
| A11368－68121 | E8．1K 0．10W 1\％CHIP | 3 | R12．R115，R215 |
| A1136B－69811 | 6.98 K OHM D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R5 |
| A1136日－75R03 | 75 OHM D．25W 1\％LHIP 121 日 | 2 | R145．R245 |
| A1136日－71511 | 7．15K OHM 0．10W 1\％CHIP 0805 | 1 | R1日 |
| A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | 3 | R17．R114，R214 |
| A1136B－90321 | 30．9K 0．10W 1\％CHIP 0日05 | 4 | R120．R178．R220．R27B |
| A11368－93111 | 3．31K 0．1W $1 \%$ CHIP 0日05 | 1 | R6 |
| A11369－102J2 | 0．001LF 50V 5\％NPO MLC 0805 | 2 | C134，C234 |
| A11369－128K2 | 12PF 50V 10\％NPO 8BQ5 T／R | 5 |  |
| A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | 2 | C107． 207 |
| A11369－330J 2 | 33PF 50V 5\％NPO MLC 0805 | 2 | C142．C242 |
| A11369－471K2 | 470 PF 50 V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | 4 | C11日，C141，C210．C241 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－DR02 | D．$\square$ OHM JUMPER CHIP 1206 | 4 | R199，R299，R323，R423 |
| A11371－ER21 | 0.2 OHM 0．10W 5\％CHIP 0805 | 3 | R14，R15．R33 |
| A11371－1011 | $10 \square$ OHM 0．10W 5\％CHIP 0日05 | 3 | R13．R147．R247 |
| A11371－1013 | 100 OHM ．25W 5\％ 1210 SMT T／R | 2 | R322．R422 |
| A11371－1822 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1286 | 1 | R8 |
| A11371－1213 | 120 OHM 0．25W 5\％EHIP | 4 | R138，R144，R23日，R244 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | 4 | R146．R161，R246，R2E1 |
| A11371－1501 | 15 ロHM 0．10W 5\％EHIP | 5 |  |
| A11371－1811 | 1 1日0 OHM 0．10W 5\％CHIP | 4 | R1 48，R163，R24日，R263 |
| A11371－2223 | 2．2K Q． 25 W 5\％EHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | R4．R19 |
| A11371－3333 | 33 K 0.25 W 5 CHIP 1210 | 6 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP 0805 | 7 | R3．R11．R26．R117．R217．R314． |
|  |  |  | R414 |
| A11371－3923 | 3． 3 K 0.25 W 5\％CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39K OHM D．50W 5\％CHIP 121日 | 4 | R317，R31B，R417．R418 |
| A11371－4701 | 47 OHM D．10W 5\％CHIP | 2 | R162．R262 |
| A11371－4724 | 4．7K OHM D．50w 5\％CHIP 2010 | 2 | R142，R242 |
| A11371－5615 | 560 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 2 | R32．R34 |
| A11371－5R63 | 5．6 0． 25 W 5\％CHIP | 4 | R150，R165，R250，R265 |
| A11371－5R65 | 5．6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6814 | 6日B OHM 0．50W 5\％CHIP | 6 | R1B5，R128，R181，R205，R228，A2日1 |
| A11371－6821 | ■．8K 0．10W 5\％CHIP 0805 | 2 | R127．R227 |
| A11371－7511 | 750 OHM D． 10 W 5\％［HIP | 3 | R2B．R133．R233 |
| A11371－8201 | 82 OHM 日． $10 \mathrm{~W} 5 \%$ CHIP | 4 | R136．R194，R236．R294 |
| A11371－8205 | 日2 OHM 1W 5\％CHIP 2512 | 1 | R607 |
| A11371－8211 |  | 6 | R129，R141．R195．R229，R241．R295 |
| A11378－A058U | WIRE． 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | 0．01MF 50V 10\％LHIP 0日05 | 4 | C109．C111，C209．C211 |
| A11427－103K5 | $0.01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | 2 | C143．C243 |
| A11427－104K2 | 0.1 MF 50V 10\％0005 | 33 | C2，С6．C7．С12．C24，C25，С28．C29． |
|  |  |  | C115．C122．C126．C127．C12日． |
|  |  |  | С129．С136．С131．С132．C133． |
|  |  |  | c139，ट215，c222，［226，C227． |
|  |  |  | C22日．ᄃ229，C230．c23i．c232． |
|  |  |  | ᄃ233， $5238,5505,5506,5605$. |
|  |  |  |  |
| A11427－123k2 | 0．012 MF 50V 10\％CHIP | 2 | C112．C212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP D805 | 2 | C117．c217 |
| A11427－472K2 | 4700PF 50V $10 \% \times 7 \mathrm{R}$ 0805 | 4 | C116．C119，C216．C219 |
| A12125－3140K | WIRE， $22 \mathrm{WHT} 3 / 16 \times 14 \times$ FAST | 1 | WP6 |
| C 2051－1 | 1N40®4 SILICON RECT． | 7 | D1，D2，D3．D4，D6，D7，D10 |
| C 3510－2 | CHOKE， $470 \mathrm{UH} 10 \% \mathrm{~A} \times 1 \mathrm{AL}$ | 4 | L10日．L101，L200．L201 |
| C 3549－0 | DIODE ZENER．10V，iN52408 | 1 | D8 |
| C 3679－5 | 33LF 50V 20\％VERT ELEET | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4． 55 |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N | DESCRIPTION | OTY | REFERENCE DESIGNATION |
| C 5895－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| C 5802－0 | 47 MF 5 VV AX CERM | 2 | C182，c202 |
| C 7091－9 | 0.33 MF 50 V CHIP 1206 | 3 | C22．C140．C240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 744日－1 | MMET3904 CHIP NPN | 6 | Q100，प181，प129．0200，प201．Q229 |
| C 8262－5 | MC3307日D DUAL LO NOISE OP AM | 4 | U4，ப5．ப1 85，U205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9012－3 | MC33679D QUAD LO NOISE OP AM | 3 | U101． 1201.4500 |
| C 9038－8 | COMPARATOR，QUAD LM339D SO－1 | 4 | ப102．U104．U202，U204 |
| C 9157－6 | 100 UF $15 \mathrm{~V} 20 \%$ NP ELEC RAD T／ | 2 | C123． 2223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | 0104，0204 |
| C 9283－0 | DIODE．1NS14／1N4148 50T－23 S | 56 | D9，D13．D101．D102．D103．D104． |
|  |  |  | D105．D106．D107．D108，D109， |
|  |  |  | D110．D111．D112．D113．D116． |
|  |  |  | D117，D118．D119，D120，D121． |
|  |  |  | D122．D123，D124，D125．D126， |
|  |  |  | D127，D12日．D129．D130．D201． |
|  |  |  | D202．D203，D204，D205，D206． |
|  |  |  | D207．D20日．D209，D210，D211． |
|  |  |  | D212，D213．D216．D217．D218． |
|  |  |  | D22i．D222．D223，D224，D225， |
|  |  |  | D226，D227，D228．D229，D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP3日，TP39 |
| C 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | U1×． $42 \times$ |
| C 9931－4 | MM8T50日7LT1 PNP XSISTOR SOT－ | 6 | 0102，0109．0111．0202．0209，0211 |
| C10196－1 | 2．2MF 50V $20 \% \mathrm{RAD} \mathrm{T/R}$ | 4 | C121．C124．ट221．C224 |
| C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C．105．c205 |
| C10422－1 | DIODE．3A 400 V 1 N 5404 AXIAL | 4 | D114．D115．D214．D215 |
| C18613－5 | 1 K TOP ADJUST TRIMMER T／A | 2 | R134，R234 |
| D 8917－3 | E200UF 110 VDC ELECTAOLYTIC | 2 | C20．C21 |
| H42902－9 | ASM．THERMAL SENSE | 2 | ப106． 4206 |
|  |  |  |  |
| 101018－1 | LBL．GARCDDE． | 1 | 2 |
| 101031－1 | 250 FASTON．AUTO INSERTA日LE | 3 | WP 4．WP5．WP7 |
| 101571－1 | HDA 2 POS ． 1 CTR MTA SHRD | 1 | 14 |
| 181573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | 12 |
| 181993－1 | JACK．6P4 COND MODLLAR R／A | 1 | J 5 |
| 182138－9 | PWB，LE1BQD／CE20日0 MAIN／INPU | 1 | 1 |
| 182438－101K2 | 10ロFF 200V 10\％NPO 日日®5 | 6 | C104，ᄃ120．c135，c204，c220，C235 |
| 18243日－560k2 | 56PF 200V 10\％NPO 0805 | 4 | ᄃ106． $2206.5504, ~ С 604$ |
| 102438－820k2 | 日2PF 200V 10\％NPO D日05 | 4 | ᄃ108，ᄃ138，ᄃ208，ᄃ23日 |
| 102465－1 | ． 47 UF $50 \mathrm{~V} 20 \%$ RADIAL T／R | 2 | C10i．c209 |
| 102465－1 | 10 UF $250 \mathrm{~V} 20 \%$ RADIAL T／R | 1 | ᄃ1 |
| 102467－1 | 22MF $25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 4 | C103．c203． $5503 . C 603$ |
| 10246日－1 | $47 \mathrm{UF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD $\mathrm{T} / \mathrm{R}$ | 4 | C113．ᄃ114．C213．С214 |
| 182470－1 | INDUCTOR，2．75UH 11A RADIAL | 2 | L1日2．L202 |
| 102471－2 | HDR．12POS 2.5 MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，16POS ，190 CTR SGL ROW | 1 | J3 |

## INACTIVE

For Reference Use Only

| ThESE DRAWINGS AND SPECIFICATIONS APE THE PROPERTY OF CAONN INTEANATIONAL．INC AND SHALL NOT EE REPAODUCED．COPIED；OA USED AS THE BASTS FOA THE MANUFACTUAE OA SALE |
| :---: |


| 171日 WEST MISHAWAKA ROAD | ELKHART． |  |  |
| :---: | :---: | :---: | :---: |
| DRAWN | JAW | $11 / 4 / 9 日$ | DWG．N |
| PRROJ． | MD390DE |  |  |

PARTS L．IST

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| 102473－1 | SPEAKON， 4 PQLE PCE HORZ | 2 | 1180．J200 |
| 102475－1 | BLOCK， 5 POS TERMINAL | 1 | TE1 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1，E101．E201 |
| 102477－1 | LED．SMT R／A RED | 4 | E10日．E102．E20日，E202 |
| 102478－1 | TRIAC DRIVER SBS 日V THRESH | 2 | 0132.0232 |
| 102479－1 | PWR MJD： 12 NPN DARLINGTON 10 | 3 | Q1．Q2，Q3 |
| 102480－1 | FET，N－CH 25V 50MA SOT－23 | 2 | 0133.0233 |
| 102481－1 | NPN 25V LOW NOISE SOT－23 | 2 | Q108，0288 |
| 1024日3－1 | PNP 300V 500MA SOT－23 | 2 | ロ183． 2283 |
| 102486－1 | OPTO BJT NPN SOIC－8 CTR $=100$ | 1 | U3 |
| 10248日－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102573－3 | HS ASM，T2 ISOLATED CH1． | 1 | H53 |
| 102574－3 | HS ASM．T2 ISOLATED CH2． | 1 | HS 4 |
| 102575－3 | HS ASM．T2 NON－ISOLATED CH1． | 1 | HS 1 |
| 102576－3 | HS ASM．T2 NON－ISOLATED CH2． | 1 | HS2 |
| 102578－1 | SPACER， $6 \times .125$ AL BLK ANODIZ | B | HW1，HW2．HW3．HW4．HW5．HW6．HW7， |
|  |  |  | HW8 |
| 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | 2 | HW25，HW2 |
| 102595－3 | POT，5K LIN 21 DNT 12 MM HORI | 2 | R100．R200 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 102723－2 | OPTO CELL ON＝500 OHM | 2 | U100． 4200 |
| 103180－1 | EUMPER．0．4＂TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 8．47UF Z5U $121020 \%$ 50V | 2 | C144．C244 |
| 103192－1 | NPN 30日V 500MA 50MHZ 50T－223 | 4 | Q107．0110．0207．0210 |
| 103193－1 | PNP 30日V 500MA 50MHZ SOT－223 | 4 | 0105，Q120，Q265．Q220 |
| 103199－1 | Q． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{A}$ | 54 | R1．R7．R152．R153．R154．R155． |
|  |  |  | R156．R157，R159，R167．R168， |
|  |  |  | R169，R170．R171，R172．R252． |
|  |  |  | R253，R254，R255，R255，R257． |
|  |  |  | R259．R267．R26日．R263．R270． |
|  |  |  | R271．8272． $\mathrm{R} 300 . \mathrm{R} 301 . \mathrm{R} 302$. |
|  |  |  | R303，R304，R305，R306，R307， |
|  |  |  | R308，R309，R310，R311．R312． |
|  |  |  | R400，R401．R402，R403．R404． |
|  |  |  | R405．R406．R407，R408．R403， |
|  |  |  | R410，R411，R412 |
| 103218－1 | 2．2UF 160V RADIAL T／R | 4 | С136．C137．C236，С237 |
| 103331－N050R | WIRE， 16 日LK／WHT TAB $\times 5 \times$ T | 1 | WP2 |
| 103435－70508 | SCREW． $6-32 \times .5$ TORX PNHD SEM | 2 | HW27．HW2日 |
| 125185－1 | MACSD 8 AMP 4DDV TAIAC | 2 | Q131．0231 |
| 125242－1 | CAP，625ID $\times 1^{\prime \prime}$ VINYL | 1 | 3 |
| 1254日2－1 | ADHESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 125508－1 | 10LF SOVDC ELECTROLYTIC SMD | 2 | С3． 230 |
| 126317－1 | REL， 30 A 24 V SPST PC日 W／FAST | 2 | K100．K200 |
| 126日25－1 | SILICONE．CLEAR 302 SYRINGE | 0 | 4 |
| 126929－1 | 1／4＂TRS／XLR COMBC PCE VERT | 2 | 1500． 1600 |

## INACTIVE

For Reference Use Only TMESE DRAWINGS AND SPECIEICATIONS ARE TME SHALERNO EE CAOMROINTEANATFONAL：INC USAND AS THE MASIS FOH THE MANUFACTUAE DR SALE
OF APPARATUS OA DEVICES WI THOUT PERMISSION

CROWN INTERNATIONAL INC．

## 17te mest mishawaka boad

ELKhart．indiana 46517 DWG．NO．

| DRAWN | JAW | 11／4／98 | DWG．NO． | $\square 214 \square^{\text {SHEET 5 OF } 21}$ | REV |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJ． | mp390de |  |  |  | （C） |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N | DESCRIPTION | MAP LOC． |
| C1 | 10246E－1 | 1 ULF 250V 20\％FADIAL T／F | 」 8 |
| C2 | A11427－104K2 | 0． 1 MF 50V 10\％0B05 | F 9＊ |
| C3 | 12550日－1 | 10UF 50VDC ELECTROLYTIC SMD | I B |
| C4 | C 4477－3 | 470 MF 35 V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35V VERT | G 9 |
| c6 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H 10＊ |
| C7 | A1 1427－104K2 | 0．1 MF 50V 10\％0805 | H 9＊ |
| C12 | A11427－104K2 | 0.1 MF 50V 10\％0805 | I 9＊ |
| C20 | D 8917－3 | 820日UF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | B2ロQUF 11日VDC ELECTROLYTIC | 日 9 |
| C22 | C 7091－9 | 0．33 MF 50V CHIP 1206 | N 9＊ |
| C24 | A1 1427－184K2 | D． 1 MF 50V 10\％0B05 | N $9^{*}$ |
| C25 | A11427－184K2 | 0．1 MF 50V 10\％0805 | －9＊ |
| L26 | C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | I 9 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10 |
| C28 | A11427－104K2 | 0．1 MF 50V 10\％0805 | 」 ＊＊$^{*}$ |
| C29 | A11427－104K2 | D． 1 MF 50V 10\％日B05 | I 9＊ |
| C30 | 125508－1 | 1 UUF 50VDC ELECTROLYTIC SMD | 18 |
| C31 | ［ 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102485－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| C102 | C 6802－0 | 47 MF 50 V AX CERM | M 9 |
| $\mathrm{C103}$ | 182467－1 | 22MF $25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/A}$ | M 9 |
| C104 | 102438－101×2 | $100 P F 200 V 10 \% ~ N P O ~ 0 日 05 ~$ | M 9＊ |
| C105 | C10208－4 | 1 10 MF $25 \mathrm{~V} 20 \%$ VERT ELEC． | L 9 |
| C106 | 102438－560K2 | 56PF 20日V 10\％NPO 0805 | L $\mathrm{g}^{*}$ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | L 9＊＊ |
| C108 | 182438－820k2 | 82PF 20日V 10\％NPO 0805 | L 10＊ |
| C109 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0805 | H 6＊$^{\text {\％}}$ |
| C110 | A11369－471K2 | 470PF 50V 10\％NPO 0905 T／R | M ${ }^{*}$ |
| C．111 | A11427－103K2 | 0． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP D805 | N $日^{*}$ |
| ᄃ112 | A1 1427－123K2 | $0.012 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{CHIP}$ | O $8^{*}$ |
| C113 | i 02468－1 | 47UF 10 V 20\％NP RAD $T / R$ | N 8 |
| C1：4 | 102488－1 | 47UF 1日V 20\％NP RAD T／R | N 8 |
| C115 | A11427－104K2 | 0．1 MF 50V 10\％08D5 | N $\mathrm{B}^{*}$ |
| C196 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A $11427-272 \mathrm{~K} 2$ | 2700PF 50V 10\％CHIP 0805 | I $7 *$ |
| C11日 | A10434－104JD | 日． 1 MF 250 V 5 MTL POLY | I 日 |
| C119 | A11427－472K2 | 470日FF 50V 10\％×7R 日日05 | I 7＊ |
| C120 | 102438－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0日05 | 1 7＊ |
| ᄃ121 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | G 8 |
| C122 | A $11427-184 \mathrm{~K} 2$ | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \% 0805$ | F 8＊ |
| ᄃ123 | C 3157－6 | 1 DULF $16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／A | F 8 |
| C124 | C16196－1 | 2．2MF 50V 20\％RAD T／R | L 9 |
| C128 | A 1 1427－184K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | N 10＊ |
| C127 | A1 1427－104K2 | 0.1 MF 50V $10 \%$ 0805 | N 9＊ |
| C128 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | M 10＊ |
| C129 | A11427－104K2 | 0．1 MF 50V 10\％0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOE． |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | 0． 1 MF 50V 10\％ 0805 | H 日＊ |
| C131 | A11427－104K2 | D． 1 MF 50V 10\％0805 | H 7＊ |
| C132 | A11427－104K2 | 0.1 MF 50V $10 \%$－805 | F $7 *$ |
| C133 | A11427－104K2 | D． 1 MF 50V $10 \%$ 08®5 | F 8＊ |
| C134 | A11369－102J2 | 0.081 JF 50 V \％NPO MLC $0805 \mathrm{~T} /$ | M 7＊ |
| C135 | 10243日－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0日05 | N 7＊ |
| ᄃ136 | 183210－1 | 2． 2 UF 160 V RADIAL T／A | 17 |
| С137 | 103210－1 | 2．2UF 160V RADIAL T／R | 17 |
| C138 | 10243日－820K2 | B2PF 20日V 10\％NPO 0805 | M 7＊ |
| C139 | A11427－1日4K2 | 0.1 MF 50V 10\％0805 | G 7＊ |
| C148 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | L 9 |
| C141 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／A | N 10 |
| C142 | A11369－330」2 | $33 \mathrm{PF} 50 \mathrm{~V} 5 \% \mathrm{NPO}$ MLC 0805 | M 10 |
| C143 | A11427－103K5 | D． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | M 9＊ |
| C144 | 103191－1 | B．47UF Z5U 1210 20\％50V | G 7＊ |
| C201 | 182455－1 | 47UF 50V 20\％RADIAL T／R | J 9 |
| C202 | C 5802－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102457－1 | 22MF 25 V 20\％RAD T／R | K 9 |
| C204 | 102438－101K2 | 100PF 200V 10\％NPO 0日05 | 」 9＊ |
| C205 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | J 9 |
| C206 | 182438－550K2 | 5EPF 2日QV 10\％NPO 0805 | 」 ¢＊$^{*}$ |
| C207 | A1 1369－270K2 | 27PF 50V $10 \%$ NFO Q8日5 T／R | Ј $9^{*}$ |
| ᄃ20日 | 10243日－820K2 | 日2PF 200V 10\％NPO D日05 | 」 10＊ |
| C209 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | K 7＊ |
| C211 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0805 | K 7＊ |
| C212 | A11427－123K2 | 0．012 MF 50V 10\％CHIP | L 8＊＊ |
| C213 | 102468－1 | 47UF 10 V 20\％NP RAD $T / R$ | K 8 |
| C214 | 102468－1 | 47UF 10V 20\％NP RAD T／R | $K 8$ |
| C215 | A1 1427－104K2 | 0． 1 MF 50V 19\％0B05 | K $8^{*}$ |
| C216 | A1 1427－472K2 | 470BPF 50V 10\％×7R 0805 | 」 $2^{*}$ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | D $1^{*}$ |
| C21日 | A10434－104JD | D． 1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | E 1＊ |
| C220 | 10243日－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0805 | D 2＊ |
| C221 | C10196－1 | 2． 2 MF 50 V 2日\％RAD T／R | E 8 |
| ᄃ222 | A11427－104K2 | D． 1 MF 50V $10 \% 0805$ | E 8＊ |
| ᄃ223 | C 9157－6 | 1 U0UF 16 V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 」 9 |
| ᄃ226 | A11427－104K2 | 0.1 MF 50V $10 \%$ 8日05 | K 10＊ |
| C227 | A1 1427－1®4K2 | 0． 1 MF 50V $10 \%$ D日05 | K 9＊ |
| ᄃ228 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | 」 $10 *$ |
| ᄃ229 | A11427－104K2 | D． 1 MF 50V $10 \%$ 0日05 | J ＊$^{*}$ |
| C230 | A11427－1日4K2 | D． 1 MF 50V 10\％0805 | E $8^{*}$ |
| C231 | A11427－104K2 | 0． 1 MF 50V 10\％0B05 | E 7＊ |
| C232 | A1 1427－104×2 | 0． 1 MF 50V 10\％ 0805 | E $7^{*}$ |
| C233 | A1 1427－104×2 | 0.1 MF 50V 10\％0805 | D 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only SHALL NOT EE AENODNTEANATIONAE：OA USED OAS APEARASTUS OA DEVICES WITHOUT PEAMISSION．


## PARTS LIST

| FEF DES | C．P．N． | DESCRIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| C234 | A11369－102J2 | 0.001 LF 50 V 5\％NPO MLC 0805 T ／ | 」 7＊ |
| C235 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | 」 2＊ |
| C236 | 103210－1 | 2．2UF 168 V RADIAL T／R | 1 |
| C237 | 103210－1 | 2．2UF 1s0V RADIAL T／R | 11 |
| C238 | 102438－820K2 | 82PF 200V 10\％NPO 0日05 | 7＊ |
| ᄃ239 | A11427－104K2 | D． $1 \mathrm{MF} 50 \mathrm{~V} 10 \% 0805$ | E 7＊ |
| C24］ | C 7091－9 | 0.33 MF 50 V CHIP 1288 | 」 9 |
| C241 | A11369－471K2 | 478PF 50V 18\％NPO 8805 T／R | L 18 |
| C242 | A11369－3．38J2 | 33PF 50V $5 \%$ NPO MLC 0805 | $\times 18$ |
| ［243 | A11427－103K5 | D． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1205$ | K 9＊ |
| C244 | 103191－1 | 0.47 UF Z5U 1210 20\％50V | E 7＊ |
| C590 | A11369－120K2 | 12PF 50V 10\％NPO 8805 T／R | A 2 |
| C501 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| c502 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | 82 |
| C503 | 102467－1 | $22 \mathrm{mF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 82 |
| C50 4 | 102438－560K2 | 56PF 200V 10\％NPO EE05 | A 2 |
| ᄃ505 | A11427－104K2 | 0.1 MF 50V $18 \% 0805$ | A 2 |
| C506 | A11427－184K2 | 0． 1 MF 50V 10\％0805 | A 2 |
| C509 |  | OPEN | B 2 |
| C600 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| can： | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 1 |
| C602 | A11369－128K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO $0805 \mathrm{~T} / \mathrm{A}$ | A 2 |
| C603 | 102467－1 | 22MF $25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 82 |
| C604 | 10243日－568K2 | 56PF 200V 10\％NPO 8B05 | 82 |
| C605 | A11427－104K2 | 0.1 MF 50V $10 \% 0805$ | A 1 |
| C606 | A11371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \% 0805$ T／R | C 3 |
| C607 | A11371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \% 0905 \mathrm{~T} / \mathrm{R}$ | C 3 |
| С608 | A11371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \%$ 0805 T／R | 日 1 |
| c609 |  | OPEN | Q 2 |
| D1 | C 2851－1 | 1 N4004 SILICON RECT． | G 9 |
| D2 | C 2851－1 | 1 N 4004 SILICON RECT | G 18 |
| D3 | C 2851－1 | $1 \mathrm{N4004}$ SILICON RECT | G 10 |
| D4 | C 2日51－1 | 1 N 4004 SILICON RECT | G 10 |
| DS | C 2851－1 | $1 \mathrm{~N} 4 \mathrm{OQ4}$ SILICON RECT | 日 |
| D7 | c 2851－1 | IN4004 SILICON RECT | J 8 |
| D日 | c 3549－0 | DIODE ZENER，10V． 1 N52408 | 」 8 |
| D9 | C 9283－8 | DIODE，1NG14／1N4148 SOT－23 5MT | I 9＊ |
| D18 | C 2851－1 | 1 N 4004 SILICON FECT， | I 10 |
| D13 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | 9＊ |
| D101 | C 9283－0 | DIODE，1NG14／1N4148 SOT－23 SMT | N 9＊ |
| D102 | C 92日3－8 | DIODE， 1 NS14／1N4148 SOT－23 SMT | N 9＊ |
| D103 | ¢ 9283－0 | DIODE， 1 NS14／1N4148 SOT－23 SMT | ᄂ 3＊ |
| D104 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | M 9＊ |
| D105 | ¢ 9283－8 | DIODE． 1 NG14／1N4／48 SOT－23 SMT | L 9＊ |
| D106 | C 9283－0 | DIODE． 1 NSI4／1N4148 SOT－23 SMT | N 8 ＊ |
| D107 | C．9283－8 | DIODE． 1 NSI4／1N4148 SOT－23 SMT | N $\mathrm{E}^{*}$ |
| D108 | ［－9283－8 | DIODE，1NG14／1N4148 SOT－23 SMT | N 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


INACTIVE
For Reference Use Only


CRDWN INTERNATIDNAL INC.


PARTS LIST

| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| :---: | :---: | :---: | :---: |
| D228 | C 9283－0 | DIODE，1N914／1N414日 50T－23 SMT | E 7 ＊ |
| D229 | C 9283－0 | DIODE，1N914／1N4148 50T－23 5MT | F 6＊ |
| D230 | ᄃ 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | K 9 |
| E1 | 102476－1 | LED，SMT A／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED，SMT R／A GREEN | 」 1 |
| E1日2 | 102477－1 | LED．SMT R／A RED |  |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E201 | 102476－1 | LED，SMT R／A GREEN |  |
| E202 | 102477－1 | LED．SMT R／A RED |  |
| H5 1 | 102575－3 | HS ASM．T2 NON－ISOLATED CH1． | L 6 |
| HS2 | 102576－3 | HS ASM．T2 NON－ISOLATED CH2． | L 3 |
| HS3 | 102573－3 | HS ASM．T2 ISOLATED CH1． | G 6 |
| HS 4 | 102574－3 | HS ASM．T2 ISOLATED CH2， |  |
| HW1 | 102578－1 | SPACER． $6 \times .125$ AL BLK ANODIZED | A 4 |
| HW2 | 102578－1 | SPACER， $6 \times .125$ AL BLK ANODIZED | A 4 |
| HW3 | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ BLK ANODIZED | A 4 |
| HW4 | 102578－1 | SPACER， $5 \times 125$ AL GLK ANODIZED | A 4 |
| HW5 | 102578－1 | 5PACER， $6 \times 125 \mathrm{AL}$ 日LX ANODIZED | A 4 |
| HWS | 102578－1 | SPACEA， $5 \times 125$ AL BLK ANODIZED | 日 4 |
| HW7 | 102578－1 | SPACER， $6 \times 125$ AL 日LK ANODIZED | 日 4 |
| HWB | 102578－1 | SPACER． $6 \times, 125 \mathrm{AL}$ 日LK ANODIZED |  |
| HW9 | A10020－7 | $5-32 \times .525$ PCB CAPTIVE STLID | D 5 |
| HW10 | A10020－7 | 6－32 $\times .625$ PC日［APTIVE STUD | 16 |
| HW1 1 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PCB［APTIVE STUD | I 3 |
| HW1 3 | A10020－7 | $6-32 \times .525$ PCB CAPTIVE STUD | 」 5 |
| HW14 | A10020－7 | $6-32 \times .625$ PCB CAPT IVE STLD | N 5 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW16 | A10020－7 | $6-32 \times .525$ PCB CAPTIVE STUD | N 3 |
| HW17 | A11055－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1 8 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE |  |
| HW19 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW20 | A11055－1 | 6－32 HEX NUT W／GELLEVILLE | A 4 |
| HW2 1 | A11055－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW22 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW23 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 日 4 |
| HW2 4 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 目 4 |
| HW25 | 102579－1 | STAND． $1 / 4$ RD SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND， $1 / 4$ FD SWAGE AL | A 4 |
| HW27 | 103435－70508 | SCREW，6－32 $\times .5$ TORX PNHD SEM | A 4 |
| HW2日 | 103435－70608 | SCREW．6－32 $\times 5$ TORX PNHD SEM | A 4 |
| 12 | 101573－1 | HDR 4 POS ． 1 CTA MTA SHRD | G 10 |
| 13 | 102472－3 | HDF，1GPOS ． 100 CTR SGL ROW | M |
| 14 | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J 5 | 101993－1 | JACK．6P4 COND MODULAR R／A |  |
| 」100 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| 1200 | 102473－1 | SPEAKON． 4 PQLE PCB HORZ | F 10 |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESERIPTION | MAP LOC． |
| J500 | 126929－1 | 1／4＂TRS／XLR COMBO PCB VERT |  |
| J502 | 102471－2 | HDF， 12 POS 2.5 MM RT ANG KEYED | C 1 |
| 」600 | 126929－1 | 1／4＂TRS／XLR COMEO PCE VERT | B 1 |
| K100 | 126317－1 | AEL，3®A 24 V SPST PCE W／FASTON | E 9 |
| K200 | 126317－1 | REL， 30 A 24V SPST PCE W／FASTON | E 9 |
| L100 | C 3510－2 | EHOKE． 470 UH 18\％AXIAL | N 7 |
| L10？ | C 3510－2 | CHOKE． 470 UH $10 \%$ AXIAL | I 7 |
| L192 | 102470－1 | INDUCTOR， $2.75 \cup H 11 \mathrm{~A}$ RADIAL | H 8 |
| L200 | C 3510－2 | CHOKE，470UH 10\％AXIAL | 」 1 |
| L201 | C 3510－2 | EHOKE，470UH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | I 1 |
| Q1 | 102479－1 | PWR MJD112 NPN DARL INGTON 100V | H 16 |
| 02 | 102479－1 | PWR MJD112 NPN DARL．INGTON 1日QV | I 18 |
| 03 | 102479－1 | PWh MJD112 NPN DARLINGTON 100V | 110 |
| 0100 | C 744日－1 | MMBT3904 CHIP NPN | M 9＊ |
| Q181 | C 7448－1 | MM日T3904 टHIP NPN | M 9＊ |
| 0182 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | N 9＊ |
| 0103 | 102483－1 | PNP 300V 500MA SOT－23 | L 9＊ |
| 0104 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | 1. |
| 0105 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | M 7＊ |
| 0107 | 103192－1 | NPN 300V 50QMA 50MHZ S0T－223 | M 7＊ |
| 0108 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | N 8＊ |
| Q109 | ᄃ 9931－4 | MMBT50日7LT1 PNP $\times$ SISTOR SOT－23 | N 8＊ |
| 0118 | 103192－1 | NPN 300V 50日MA 50MHZ SOT－223 | N 7＊ |
| 0111 | C 9331－4 | MM日T5087LT1 PNP XSISTOR 50T－23 | N 7＊ |
| 0112 | 103200－1 | NPN 230V 15A 30MHZ 2SC5242 | N 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0120 | 193193－1 | PNP 300V 500MA 50MHZ SOT－223 | I 7＊ |
| Q1 21 | 10320日－1 | NPN 230V 15A 30MHZ 25C5242 | 17 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0129 | C 7448－1 | MMBT3904 CHIP NPN | 6 ${ }^{*}$ |
| 0131 | 125106－1 | MAC9D 8 AMP 400 V TRIAC | F 9 |
| Q132 | 102478－1 | TRIAC DRIVER SES BV THRESH | F 9 |
| Q133 | 1024日处1 | FET，N－EH 25V 50MA SOT－23 | M 9＊ |
| 0200 | C 7448－1 | MMET3904 CHIP NPN | K 9＊ |
| 0201 | C 7448－1 | MM9T3904 CHIP NPN | K $\mathrm{S}^{*}$ |
| 0202 | C 9931－4 | MMBT5087LT1 PNP XSISTOR SOT－23 | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| Q203 | 102483－1 | PNP 30ロV 500MA SOT－23 | 」 9＊ |
| 0204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| 0205 | 103193－1 | PNP 30ロV 50QMA 50MHZ SOT－223 | 」 7＊ |
| 0207 | 103192－1 | NPN 30日V 500MA 50MHZ 50T－223 | K 7＊ |
| 0208 | 1824日1－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| 0209 | C 9931－4 | MMET50日7LT1 PNP $\times$ SISTOR SOT－23 | K 日＊ |
| 0210 | 103192－1 | NPN 30日V 500MA 50MHZ 50T－223 | 」 2＊ |
| Q211 | ᄃ 9931－4 | MMET5087LT1 PNP $\times$ ISTOR 50T－23 | J 2＊ |
| 0212 | 103200－1 | NPN 230V 15A 30MHZ 25 C5242 | J 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0220 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | D $2^{*}$ |
| 0221 | 103200－1 | NPN 230V 15 A 30 MHZ 25 C 5242 |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Q229 | C 7448－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 125106－1 | MACSD $日$ AMP 400 V TRIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER SES 日V THRESH | F 日 |
| Q233 | 102480－1 | FET．N－CH 25V 5BMA 50T－23 | 」 ＊＊$^{\text {J }}$ |
| R1 | 103193－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | Ј $8^{*}$ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \% \mathrm{CHIP} 2512$ | J $\mathrm{B}^{*}$ |
| R3 | A11371－3341 | 330 K 0.10 W \％CHIP 0805 | I 日＊ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊ |
| R5 | A11368－69811 | 6．98K DHM D．10W 1\％LHIP D日B5 | D 8＊ |
| R6 | A11368－93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \% \mathrm{CHIP} 0 \mathrm{ODS}$ | D $8^{*}$ |
| R7 | 103193－1 | 0．4 OHM 1W 5\％ 2512 T／R | 」 $8^{*}$ |
| RB | A11371－1022 | 1 K ロ．125W 5\％CHIP 1206 | N 10＊ |
| RS | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | H 9＊ |
| R10 | A11368－20023 | 20K $0.25 \mathrm{~W} 1 \%$ CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330K 0．10W 5\％CHIP 8日05 | I 9＊ |
| R12 | A11368－68121 | 6日． 1 K 0.10 W 1\％LHIP | I 9＊ |
| R13 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0日05 | I 10＊ |
| F1 4 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 日⿴囗⿱一土口 | I 10＊ |
| R15 | A11371－0R21 | 0.2 OHM 0．18W 5\％CHIP 0日®5 | I 18＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | B． 25 K 0．1W 1\％CHIP 0805 | F 10＊ |
| R18 | A11368－71511 | 7．15K OHM 0．10W 1\％CHIP 0日05 | D 8＊ |
| R19 | A11371－3313 | 330 DHM $0.25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | I 1＊ |
| R20 | A11368－57621 | 57． 5 K 日．10W 1\％CHIP 0805 | I 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DRAWN | JAW | 11／4／98 | DWG．NO． | SHEET 12 DF 21 <br> D214ロ－9 |  |  |  | REV |
| PROS． | MD39000 |  |  |  |  |  |  | $\square$ |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R21 | A11368－12121 | $12.1 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0日05}$ | 」 $9^{*}$ |
| R22 | A1 1368－39231 | 392K 0．10W 1\％CHIP 0日05 | I $9^{*}$ |
| R23 | A1 1368－39231 | 392K 0．10W 1\％CHIP 0805 | I $9 *$ |
| R24 | A11368－57621 | 57．EK 0．10W 1\％CHIP 0805 | I $9 *$ |
| R25 | A11368－12031 | 100K 0．1W $1 \% \mathrm{CHIP}$ 日805 | N 9＊ |
| R26 | A11371－3341 | 330 K 0.10 W 5\％CHIP 0805 | A $\mathrm{S}^{*}$ |
| R27 | A11368－20021 | 20K 1／10W 1\％CHIP 0805 | L $\mathrm{S}^{*}$ |
| R28 | A11371－7511 | 750 OHM D．10W 5\％CHIP | L 9＊ |
| R29 |  | OPEN | 日 2 |
| R30 | A11358－10831 | 100K 0．1W 1\％CHIP D805 | I $8^{*}$ |
| R31 | A11368－10031 | 100K 0．1W 1\％CHIP 0日05 | 」 $8^{*}$ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 8 |
| R33 | A11371－0R21 | 0.2 OHM 0．10W 5\％LHIP 0日05 | $110 *$ |
| R34 | A11371－5615 | 560 OHM 1W 5\％2512 T／R | J 8 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11358－10611 | 1K 0．10W 1\％CHIP 0B05 | M 10＊ |
| R102 | A1 1368－39231 | 392K 0．10W 1\％CHIP 0日Q5 | N 9＊ |
| R103 | A11368－49901 | 499 OHM 0．10W 1\％CHIP 0日05 | N 9＊ |
| R104 | A11368－10021 | 10K 1／18W 1\％［HIP D日05 | N 9＊ |
| R105 | A11371－6日14 | 5日コ DHM D．50W 5\％［HIP | 」 1＊ |
| R106 | A1 358－10011 | 1K 0．10W 1\％CHIP QB05 | M 9＊ |
| R1戈 | A11358－10021 | 10K 1／10W 1\％CHIP 0805 | L 1吕＊ |
| R10日 | A11368－10021 | 10K 1／10W 1\％CHIP De日5 | L 10＊ |
| R109 | A1 1 368－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} .1 \% \mathrm{CHIP} 1206$ | M 9＊ |
| R110 | A11368－10811 | 1K 日．10W 1\％CHIP 0805 | L 9＊$^{*}$ |
| R111 | A1 1368－10021 | 10K 1／10W 1\％CHIP D805 | L 9＊ |
| R112 | A10265－19121 | $19.1 \mathrm{~K} \mathrm{Q.25W} 1 \% \mathrm{MF}$ | ᄂ 9 |
| R113 | A11368－51111 | $5.11 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0805}$ | L 10＊＊ |
| R114 | A11368－82511 | $8.25 \mathrm{~K} 0.1 \mathrm{~W} 1 \% \mathrm{CHIF} 0805$ | L 10＊ |
| R115 | A1136日－6日121 | 6日． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | L 10＊ |
| R115 | A11368－22601 | 22 OHM O． 10 W 1\％CHIP 0B05 | M 日 $^{*}$ |
| R117 | A11371－3341 | 330 K 0.10 W \％CHIP 0805 | M 9＊ |
| R118 | A11 368－10221 | $10.2 \mathrm{~K} \mathrm{0.10W} 1 \%$ CHIP 0805 | M 1 ${ }^{\text {a }}$ |
| R119 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | M 9＊ |
| R120 | A11368－90921 | 90．9K 0．10W $1 \%$ CHIP 0日05 | M 9＊ |
| R121 | A11368－10621 | 10K 1／18W 1\％CHIP 0日®5 | M 10 |
| R122 | A1136日－15831 | 15日K D．10W 1\％CHIP 0805 | N 9＊ |
| R123 | A11368－10831 | 1日BK 0．1W $1 \%$ CHIP 0B0S | M 9＊ |
| R124 | A1 1 368－15831 | 158K 0．10W 1\％CHIP 0日05 | M $9^{*}$ |
| R125 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP D日®5 | N 9＊ |
| R126 | A11 36日－49921 | 49．9K 日． 1 W 1\％CHIP 0805 | M 9＊ |
| R127 | A11371－6821 | 6．8K 0．10W 5\％CHIP 0日05 | N 9＊ |
| R128 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－日211 | 820 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | －8＊ |
| R131 |  | OPEN | － $8^{*}$ |
| R132 | A11371－2223 | 2．2K 0.25 W 5\％CHIP 1210 | ${ }^{\text {H }}$ 6＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R133 | A11371－7511 | 750 OHM 日．10W 5\％CHIP | H 6＊$^{*}$ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7 ＊ |
| R136 | A11371－8201 | 日2 OHM D． 10 W 5\％CHIP | M 7 ＊ |
| R137 | A1 1368－15002 | 150 DHM D． $125 \mathrm{~W} 1 \%$ EHIP | N 8＊ |
| R138 | A11371－1213 | 120 OHM D． $25 \mathrm{~W} 5 \%$ CHIP | N 8＊＊ |
| R139 | A1136日－18703 | 107 OHM 0．25W 1\％CHIP | N 8＊ |
| R140 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | N $8^{*}$ |
| R141 | A11371－8211 | B20 OHM 0．10W 5\％CHIP | $08^{*}$ |
| R142 | A11371－4724 | 4．7K OHM 0．50W 5\％CHIP 2010 | $08^{*}$ |
| R143 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | N 8＊ |
| R1 44 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| R145 | A11358－75903 | 75 OHM 0．25W $1 \%$ CHIP 1210 | N 8＊＊ |
| R146 | A11371－1331 | 13K OHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R147 | A11371－1011 | 100 OHM 0．10W 5\％EHIP 0日05 | N 7＊ |
| R14日 | A1 1 371－1811 | 180 OHM D．18W 5\％CHIP | M $7 *$ |
| A150 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | N $6^{*}$ |
| R152 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 6＊ |
| R153 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R154 | 103199－1 | 0． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | ᄂ 6＊ |
| R155 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M 5＊ |
| R156 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
| R157 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／A | N 5＊ |
| R158 | A10266－2R74 | 2.7 OHM 2W 5\％CF | I 8 |
| R159 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 6＊ |
| R180 | A11371－150： | 15 OHM $8.10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | I $7 *$ |
| R161 | A1 1371－1331 | 13 K DHM D．10W 5\％CHIP 0805 | H $7 *$ |
| R162 | A11371－4701 | 47 OHM Q． $10 \mathrm{~W} 5 \%$ CHIP | H 7＊ |
| R163 | A1 1371－181： | 180 OHM 0．10W 5\％CHIP | I 7＊ |
| R165 | A11371－5R63 | 5． 60.25 W 5\％CHIP | I 5＊ |
| R167 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | E 6＊ |
| R16日 | 103199－1 | 0． 4 OHM 1W 5\％2512 T／R | F $6^{*}$ |
| R169 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R170 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 5＊ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R172 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H $\mathrm{E}^{*}$ |
| R174 | A1136日－50432 | 504K OHM 日． $125 \mathrm{~W} 1 \%$ CHIP 1206 | G 8＊ |
| R175 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ LHIP 0805 | G $B^{*}$ |
| A176 | A1 136日－10021 | 10K 1／10W 1\％EHIP 2 E05 | G 日＊ |
| R177 | A11368－10021 | 10K 1／10W $1 \%$ CHIP 0日05 | H $\mathrm{B}^{*}$ |
| R178 | A11368－90921 | 90．9K 0． $10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | N 9＊＊ |
| R179 | A1136B－10031 | 100K D．1W $1 \%$ CHIP 0805 | F 7＊ |
| R1日0 | A11368－39231 | 392 K 日．10W 1\％CHIP 0\＆05 | G 日＊ |
| R181 | A11371－5814 | 680 OHM 日．50W 5\％EHIP | 」 1＊ |
| R182 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | F $\mathrm{B}^{*}$ |
| R183 | A1136日－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | $F B^{*}$ |
| R184 | A11368－20023 | 20X $0.25 \mathrm{~W} 1 \%$ CHIP 1210 | F 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R185 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | G 8＊ |
| R186 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0805 | N 10＊ |
| R187 | A1136日－15831 | 15日K 0．10W 1\％CHIP 0805 | M 10＊ |
| R188 | A1136日－15831 | 15日K 0．10W 1\％CHIP 0805 | N 10＊ |
| R189 | A1136日－10831 | 10日K 0．1W 1\％CHIP 0805 | M 10＊ |
| R190 | A1136日－57621 | 57.6 K 0．10W 1\％LHIP 0日®5 | N $\mathrm{6}^{*}$ |
| R191 | A1136日－22801 | 226 OHM 0．10W 1\％CHIP 0日05 | N 6＊ |
| R192 | A1136日－60432 | 504K OHM 0．125W $1 \%$ CHIP 1206 | L 9＊ |
| R193 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | N 3＊ |
| R194 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M 7＊ |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | M 7＊ |
| R196 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | M 3＊$^{*}$ |
| A197 | A11388－61911 | 6．19K 0．10W 1\％CHIP 0805 | M 10 |
| A198 |  | OPEN | M 10 |
| F199 | A11371－0R02 | Q． 0 OHM JUMPER CHIP 1206 | N 8＊ |
| R200 | 102595－3 | POT，5K LIN 21 DNT 12 MM HORIZ | N 1 |
| F201 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R202 | A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0 日 05$ | L $\mathrm{S}^{*}$ |
| R203 | A11368－49901 | 499 OHM D．10W 1\％CHIP 0805 | L $9^{*}$ |
| R204 | A） $1368-10021$ | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | L B＊$^{*}$ |
| R205 | A 1 1371－6814 | 6日0 OHM 0．50W 5\％CHIP | M 1＊ |
| R206 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 $3^{*}$ |
| R209 | A11368－19122 | 19.1 K ， $125 \mathrm{~W} 1 \% \mathrm{CHIP} 1206$ | K $9^{*}$ |
| R210 | A1 1368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | 」 $9^{*}$ |
| R211 | A11368－10021 | 10K 1／10W 1\％CHIP 0905 | 」 $9 *$ |
| R212 | A10265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 」 9 |
| R213 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日日5 | 」 $1 日^{*}$ |
| R214 | A11368－82511 | 8．25K 0．1W $1 \% \mathrm{CHIP} 0 日 05$ | 」 10＊ |
| R215 | A11368－68121 | 6日．1K 0．10W 1\％CHIP | 」 10＊ |
| R216 | A11368－22601 | 226 OHM 0．10W 1\％CHIP 0805 | K $9^{*}$ |
| R217 | A11371－3341 | 330 K 0．10W 5\％CHIP 0805 | 」 $9^{*}$ |
| R218 | A11368－10221 | 1日． 2 K 日．10W 1\％CHIP 0805 | $\times 10$ |
| R213 | A11371－3333 | 33K 日．25W 5\％LHIP 1210 | 」 ＊＊$^{\text {¢ }}$ |
| R220 | A11368－90921 | 90．9K ロ． $10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | K 9＊ |
| R221 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | K 10 |
| P222 | A11368－15831 | 158K 0．10W 1\％CHIP 0日05 | X $3^{*}$ |
| R223 | A11368－10831 | $109 \mathrm{B.1W} 1 \%$ CHIP 0805 | K $3^{*}$ |
| R224 | A11368－15831 | 158 K 0．10W 1\％CHIP 0805 | K $\mathbf{S}^{*}$ |
| R225 | A11368－10031 | $100 K$ 0．1 W $1 \%$ CHIP 0805 | L \％$^{*}$ |
| R226 | A11368－49921 | 49．9K 日． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | K 3＊ |
| R227 | A11371－6日21 | 6．8K B．10W 5\％CHIP 0日B5 | K 3＊$^{*}$ |
| R228 | A11371－6日14 | 6日g OHM 0．50W 5\％CHIP | M 1＊ |
| R229 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 日．10W 5\％CHIP | H 3＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | J 7 |
| ¢235 | A11371－3923 | 3．9K D．25W 5\％CHIP | 」 7＊ |
| R236 | A11371－8201 | 82 OHM ロ．10W 5\％CHIP | 」 7＊ |
| R237 | A11368－15082 | 150 OHM 0．125W 1\％CHIP | K 8＊ |
| R238 | A11371－1213 | 120 OHM $0.25 \mathrm{~W} 5 \%$ EHIP | K 7＊ |
| R239 | A1136日－10703 | 107 OHM 0．25W 1\％LHIP | K $8^{*}$ |
| R240 | A11371－3333 | 33K D．25W 5\％CHIP 1210 | X 7＊ |
| R241 | A11371－8211 | 820 OHM D．10W 5\％LHIP | L $8^{*}$ |
| R242 | A11371－4724 | $4.7 \times$ OHM 0．50W 5\％LHIP 2010 | L 7＊ |
| R243 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \% \mathrm{CHIP} 1210$ | K $8^{*}$ |
| R2 44 | A11371－1213 | 120 OHM D． $25 \mathrm{~W} 5 \%$ LHIP | $\times 8^{*}$ |
| R245 | A1136日－75R03 | 75 DHM 0．25W 1\％CHIP 1210 | ¢ $8^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．18W 5\％LHIP 0805 | 」 2＊ |
| R247 | A11371－1011 | 100 OHM ®．10W 5\％CHIP 0805 | 」 2＊ |
| R248 | A11371－1811 | 180 OHM 0．10W 5\％EHIP | ¢ 2＊ |
| R250 | A1：371－5R63 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 」 2＊ |
| R252 | 183199－1 | 8． 4 OHM 1W 5\％ 2512 T／R | K 4＊ |
| R253 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K $3^{*}$ |
| R254 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | L． 4＊$^{*}$ |
| R255 | 103199－1 | 0． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M ${ }^{*}$ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 103199－1 | D． 4 OHM 1 W 5\％2512 T／R | D $3^{*}$ |
| R260 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | D $1^{*}$ |
| R261 | A11371－1331 | 13 K OHM D．10W 5\％CHIP 0日05 | E $2^{*}$ |
| R262 | A11371－4701 | 47 OHM 日．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1日11 | 180 OHM D．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5.6 0．25W 5\％CHIP | E $2^{*}$ |
| R267 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R288 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F ${ }^{*}$ |
| R269 | 183199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | $F 4^{*}$ |
| R270 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 3＊ |
| R271 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 4＊$^{*}$ |
| R272 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H $3^{*}$ |
| R274 | A11368－60432 | 604K OHM 0．125w $1 \%$ CHIP 120 G | E $日^{*}$ |
| R275 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | E 8 ＊ |
| R276 | A11388－10021 | 10K 1／10W 1\％CHIP 0805 | E $8^{*}$ |
| R277 | A11368－10021 | 10K 1／10W 1\％CHIP 0ea5 | E 8＊ |
| R27日 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L $9^{*}$ |
| R279 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0805 | E 7 ＊ |
| R280 | A11388－39231 | 392K 0．10W 1\％CHIP 0.085 | E 日＊ |
| R281 | A11371－6814 | 6日0 OHM 0．50W 5\％CHIP | M 1 ＊ |
| R282 | A11358－10021 | 10K 1／10W $1 \%$ CHIP 0805 | D $\mathrm{日}^{*}$ |
| R283 | A11368－10031 | 10®K 0．1W $1 \%$ CHIP ⿹勹日5 | E 日＊ |
| R284 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | F $\mathrm{S}^{*}$ |
| R285 | A11388－10021 | 10K 1／10W 1\％LHIP 0日05 | F $\mathrm{B}^{*}$ |
| R286 | A11388－1003！ | 100K 0．1W 1\％CHIP 0805 | L 10＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only THESE DRAWINGS AND SPELIFICATIONS ARE THE SHALL NOT 日E REROBUCED COPIED．OR USED AS THE EASIS FOR THE MANUFACTUAE OR SAME

| 1718 west | Sha | boad | elkhart，indiana 46517 |  | Phone | 1219）294－8000 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DPAWN | JAW | 11／4／98 | DWG．NG． | O． | SHEE | 16 OF 21 |  |
| Pros． | MD396D6 |  |  | $102140-9$ |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N | DESERIPTION | MAP LOC |
| R287 | A11368－15日31 | 158K 0．10W 1\％CHIP 0日05 | K 10＊ |
| R288 | A1136日－15831 | 158X 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A1136日－10031 | 100K 0．1W $1 \%$ EHIP D日05 | K 10＊ |
| R230 | A $11368-57621$ | 57．EK 0．10W 1\％EHIP 0805 | N 3＊ |
| R291 | A11368－22601 | 226 OHM D．10W 1\％CHIP 0805 | N 3＊ |
| 8292 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1286 | 」 $9^{*}$ |
| 8293 | A1 136日－10021 | 10K 1／10W 1\％CHIP 0805 | K 9＊ |
| R294 | A11371－8201 | 日2 OHM D． 1 LW 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | 」 7＊ |
| R296 | A1135日－10021 | 10K 1／10W 1\％CHIP 0日05 | K 9＊ |
| R297 | A1136日－61911 | 6．19K 日．10W 1\％CHIP 0805 | K 10 |
| R298 |  | OPEN | K 10 |
| R293 | A11371－BR02 | D．0 OHM JLMPER CHIP 1206 | K $8^{*}$ |
| R300 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D $\mathrm{E}^{*}$ |
| R301 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | J $5^{*}$ |
| R302 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R303 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | L 6＊ |
| R304 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | M 5＊ |
| R305 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M 6 ＊ |
| R306 | 103199－1 | 0.4 OHM iW 5\％ 2512 T／R | N 5＊ |
| R307 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R308 | 103199－1 | Q． 4 OHM $1 \mathrm{~W} 5 \% 2512$ T／R | F 6＊ |
| R309 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊$^{*}$ |
| R310 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | G G＊ |
| R311 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | G $5^{*}$ |
| R312 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／R | I $5^{*}$ |
| R313 | A11 368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP D805 | G 7＊ |
| R314 | A11371－3341 | 330K D．10W 5\％LHIP 0805 | G 7＊ |
| R315 | A1136日－51111 | 5.11 K OHM B．10W $1 \%$ CHIP 0805 | H 7＊ |
| R316 | A1136日－10611 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | M 10＊ |
| R317 | A11371－3934 | 39 K OHM D．50W 5\％CHIP 1210 | N 8 |
| R318 | A11371－3934 | 39 K OHM D．50W 5\％CHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ．25W 5\％121日 SMT T／R | L． 9 |
| R323 | A11371－日RQ2 | 0．O OHM JUMPER CHIP 1206 | ［ 8 |
| R400 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D $3^{*}$ |
| R401 | 103199－1 | 0． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 4＊ |
| R402 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R403 | 103199－1 | D． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | L $4^{*}$ |
| R404 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 3＊ |
| R405 | 103199－1 | D． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{A}$ | M $4^{*}$ |
| R406 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3 ＊ |
| R407 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R408 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 3＊ |
| R409 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | G 4＊ |
| R410 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | G $3^{*}$ |
| R411 | 103193－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H 4＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



PARTS LIST

| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R412 | 103199－1 | 0.4 OHM IW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I $3^{*}$ |
| R413 | A 1 1358－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | E 7＊ |
| R414 | A1 1371－3341 | 330K 0．10W 5\％CHIP 0805 | E 7＊ |
| R4 15 | A）1368－51111 | 5．11K OHM 0．10W 1\％CHIP DQ05 | E 7＊ |
| R416 | A11368－10011 | 1 K Q． $10 \mathrm{~W} 1 \%$ CHIP 8日®5 | K 10＊ |
| R417 | A1 1371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R419 | A1 1371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 9 |
| R419 |  | OPEN | 大 10＊ |
| R420 | A11371－5R65 | 5.6 OHM 1W 5\％EHIP 2512 | H ${ }^{\text {＊}}$ |
| R421 | A11371－5R65 | 5.5 OHM 1 W 5\％EHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | 」 9 |
| R423 | A11371－0RD2 | D．D DHM JUMPER CHIP 1206 | F 8 |
| R50日 | A11368－10021 | 10K 1／10W 1\％EHIP 0805 | A 3 |
| R501 | A11368－10021 | 10K 1／10W 1\％CHIP D805 | A 2 |
| R502 | A1136日－10021 | 10K 1／10W 1\％CHIP 0a05 |  |
| R503 | A11368－18021 | 10K 1／10W 1\％CHIP 0日B5 | 82 |
| R504 | A 1 1368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | A 2 |
| R506 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W}$ 1\％EHIP 0805 | A 2 |
| R508 |  | OPEN |  |
| R60］ | A11368－10021 | 10K 1／10W 1\％CHIP D日05 | A 1 |
| R60 1 | A1136日－10021 | 10 K 1／10W 1\％EHIP 0805 | A 1 |
| R602 | A1 1 36日－10021 | $10 K 1 / 10 W 1 \%$ CHIP 0805 | A 2 |
| R603 | A1136日－10021 | 10K 1／10W 1\％LHIP 0805 | A 2 |
| R504 | A 1 135日－10221 | 1日K 1／10W 1\％CHIP 日B05 | A 1 |
| R606 | A1 135日－10021 | 10K 1／10W \％\％CHIP 0805 | 日 2 |
| RE07 | A11371－8205 | 日2 OHM 1W 5\％CHIP 2512 | A 1 |
| R608 |  | OPEN | C 1 |
| 51 | 10248日－1 | SPDT HORIZ SLIDE | L． 10 |
| S2 | C 7325－1 | 2P 2 POS．PC SLIDE SW． | L 10 |
| T日1 | 102475－1 | BLOCK， 5 POS TERMINAL | A 2 |
| TP38 | C 9896－9 | TEST PDINT LDOP | K 1 |
| TP39 | C 9896－9 | TEST POINT LOOP | N 7 |
| ப1 | C 5095－2 | POS． 15 VOLT REG． | H 10 |
| U1X | C 9318－1 | TO22日 VERT CLIP－ON HEATSINK | H 10 |
| ப2 | ᄃ 5096－0 | NEG． 15 VOLT REG． | H 9 |
| ப $2 \times$ | ［．9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |
| 43 | 102486－1 | OPTO BJT NPN SOIC－日 CTR $=108 \%$ | N 10 |
| U4 | ᄃ 日262－5 | MC3307日D DUAL LO NOISE QP AMP | I 9 |
| L5 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |
| U100 | 102723－2 | OPTO CELL ON＝500 OHM | M 9 |
| ப181 | C 9012－3 | MC3כ079D QUAD LO NOISE OP AMP | M 10 |
| U102 | C 983日－日 | COMPARATOR，OLAD LM339D SO－14 | N 9 |
| U104 | ᄃ 903日－8 | COMPARATOR，QUAD LM339D SO－14 | G 7 |
| ப105 | ᄃ 8262－5 | MC33078D DUAL LO NOISE OP AMP | F 7 |
| ப106 | H42902－9 | ASM，THERMAL SENSE | N 6 |
| U20日 | 102723－2 | OPTO CELL ON－500 OHM | K 9 |
| U201 | C 9012－3 | MC33079D QUAD LD NOISE OP AMP | 」 10 |
| U202 | C 903日－8 | COMPARATOR，QUAD LM339D SD－14 | $\times 9$ |
| ப204 | C 903日－8 | COMPAFATOR．QUAD LM339D SD－14 | E 7 |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## Component Map

for use with
Main PWA 102140-9



## INACTIVE

For Reference Use Only

|  <br>  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | None |  | $102140-9$ |  | ${ }_{\text {c }}^{\text {EVE }}$ |
|  | Prou. | Mo3 ${ }^{\text {made }}$ |  |  |  |  |
| $4 \square 3$ |  |  | 2 |  | 1 |  |



## NOTES：

t．SCHEMATIC DRAWING NUMEER 192142.
2．PWG PART NLMEER 102138－9．
3．the pwa shall meet the ipc－a－610．class 2 standafds．
4．all leads shall be trimmed to 0．日93＂of Less．
5．POSITIDN COMPONENTS AS SHDWN ON CDMPONENT MAP．
b．Components that have（＊）after their map location
are mounted on the bottom side of the painted circuit board．
7．REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES．
B．the vent hole on top of the relays kigb and kzog must be opened after the cleaning process．by either removing the sealing tape OR CUTTING OFF the circular tag with an＂exacto＂knife on simular cutting tool．warning．this step must be done after the cleaning PROCESS NOT BEFDRE！！！WATER OR CLEANING SOLVENTS ENTERING THE relay vent hole will damage the relay．
9．CONNECT THE WIRES THAT COME FROM O123 AND 0223
TO WP4 AND WPS RESPECTIVELY．
19．THE PWA PART NUMEER FOR This module shall be
mafked on the top side of the p．c．board and shall be permanent．
USE A marker and mark out the dld pwa numbers on the bottom．
the pwa numger． $126883-2$ ，shall be printed on a label and this
label shall be placed on the component side of the finished INPUT MODULE．
1）．installation of uleg and u2e6 is as follows：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOR H42902－9
118．BEND TRANSISTDR AT 90 DEG．FLAT SIDE DOWN
11C．PLACE TRANSISTDR into the pwe as shown on the component map detail e．
11D．MIX QUTPUT EPOXY AND ACCELERATDR TOGETHER． apply the mixture to the transistor and heatsink． the mixture must fill the heatsink hole and the leads of the device．especially the center lead． indte：no visible air gaps around the transistor and the transistor leads cannot touch the heatsink）
ile．hold the tranststor against the heatsink until epoxy sets－up
12．TORQUE 6－32 HEX NUTS（CRN A1：05E－1）AS FDLLOWS：
12A．PRE－WAVE TOROUE OF 4－6 INCH LBS．
128．POST－WAVE AND WHEN ASSEMBLY has CODLED DOWN TO HANDLING TEMPERATURE TORQUE OF 13－15 INCH LES
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPONENT MAP


INACTIVE<br>For Reference Use Only

TMESE DRAWINGS AND SPECIFICATIONS ARE TME PRDPERTY OF CROWN INTERNATIONAL．INC．AND SHALL NOT BE REPRODUCED．CDPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without permission

| PR |  | ［718 WEST miShawaka road |  |  | $N T E F$ ENAT |  |  | $\underset{\text { PHONE }}{\text { AL }} \text { ING: }$ | －8000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $K$ |  | PWA，MAIN／INPUT CE2D日D |  |  |  |  |  | TOL．UNLESS SPE <br> $x . x \times$ <br> x．XxX DRILLS |  |
|  |  | DFAWN | KLW | 03－29－59 | APPROVED EY： |  | do not scale print |  |  |
|  |  | CHECKED | Jaw | 03－29－99 | MEE Dr | 3－30－99 | SUPEASEDES |  |  |
|  |  | SCALE | 7 NDNE |  | EEA19 | 41 N | E．C． |  |  |
|  |  | PROJ＊ | MD3 | 39008 | PE 8 | $3-30.99$ | $\begin{aligned} & \text { DWG. NO. SHEET 1 OF 21 } \\ & 102140-11 \end{aligned}$ |  |  |
|  |  | FILENANE：18214日～11＿A＿81．PCE |  |  | NEXT ASM： |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
|  | 6－32 $\times .625$ PCE CAPTIVE STUD | $\theta$ | HW9，HW10，HW1 1．HW1 2．HW1 3，HW1 4. |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K $0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R15日 |
| A10434－104」D | 0．1 MF 250V 5\％MTL POLY | 2 | C118．C218 |
| A11055－1 | 6－32 HEX NUT W／BELLEVILLE | 8 | HW1 7．HW18，HW1 9．HW20．HW21． |
|  |  |  | HW22，HW23，HW24 |
| A1136B－10011 | 1 K －．10W 1\％CHIP Q日05 | 日 | R101，R105，R110．R201，R206． |
|  |  |  | R210，R315，R416 |
| A1136日－10021 | 10K 1／10W 1\％CHIP 日日Q5 | 35 | RS．R104，R107，R108，R111． |
|  |  |  | R121，R176．R177．R182．R185． |
|  |  |  | R193，R196，R204．R211．R221， |
|  |  |  | R276．R277，R2日2，R285，R293， |
|  |  |  | R296，R313，R413，R500，R501， |
|  |  |  | R502，R503，R504，R506．R600． |
|  |  |  | R601，R682，R603．R604．R685 |
| A11368－10031 | 100 O －1 W 1\％CHIP 0日05 | 15 | R25，R30，R31，R123，R125，R179， |
|  |  |  | R183，R1日6，R189，R223，R225， |
|  |  |  | R279，R2B3，R286．R2日9 |
| A11358－10221 | 10．2K 0．10W 1\％CHIP 0805 | 2 | R118．R21日 |
| A11368－10783 | 107 OHM 0．25W 1\％CHIP | 2 | R139，R239 |
| A11368－12121 | 12.1 K OHM 0．10W 1\％EHIP 0日05 | 1 | R21 |
| A11368－15002 | 150 DHM 0．125W 1\％CHIP | 2 | R137．R237 |
| A11368－15831 | 158K 0．10W 1\％CHIP 0885 | 日 | R122，R124，R1日7，R1日日，R222． |
|  |  |  | R224，R2B7．R2日日 |
| A11358－19122 | 19．1K 8．125W 1\％CHIP 1206 | 2 | R109，R209 |
| A11368－20021 | 20K 0．1W 1\％日805 T／R | 1 | R27 |
| A11368－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10，A184，R2B4 |
| A11368－22681 | 226 OHM 0．10w 1\％CHIP 日日®5 | 4 | R116．R191．R216．R291 |
| A11368－39231 | 392 K 日．10W 1\％CHIP 0805 | 6 | R22．R23．R102，R1日0，R202．R2日0 |
| A11368－49301 | 499 OHM D．10W 1\％CHIP D日85 | 2 | R103，R203 |
| A11368－49321 | 49．3K $0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 2 | R126．R226 |
| A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日a | 6 | R113．R175．R213．R275．R315．R415 |
| A11368－57621 | 57．6K 0．1日W 1\％CHIP 8日05 | 4 | R20，R24，R190，R290 |
| A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1205 | 4 | R174．R192．R274．R292 |
| A1136B－E1911 | 6．19K 0．10W 1\％CHIP 0日05 | 2 | R197．R297 |
| A1136日－68121 | 6日． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ | 3 | R12．R115，R215 |
| A1138日－69811 | $6.98 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} 0005$ | 1 | R5 |
| A1138日－75R83 | 75 OHM 0．25W 1\％LHIP 1210 | 2 | R145，R245 |
| A11368－71511 | 7.15 K OHM D．10W 1\％CHIP 0805 | 1 | R18 |
| A1138日－82511 |  | 3 | R17．R114．R214 |
| A1136日－90921 | 90．9K 0．10W 1\％CHIP 0日05 | 4 | R120，R178，R220，R278 |
| A1136日－93111 | 9．31K D． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R6 |
| A11369－102．12 | 0.001 UF 50V 5\％NPO MLC D日05 | 2 | C134．c234 |
| A11369－120K2 | 12 PF 50 V 10\％NPO 0日05 T／R | 6 |  |
| A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | 2 | C107．c207 |
| A11369－330」2 | 33PF 50V 5\％NPO MLC 0805 | 2 | C142．ᄃ242 |
| A11389－471K2 | 470 PF 50 V 10\％NPO $2805 \mathrm{~T} / \mathrm{R}$ | 4 | C110．C141．C210．C241 |
|  |  |  |  |
|  |  |  |  |

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－0RD2 | 0.0 OHM JUMPER CHIP 1206 | 4 | R199，R299，R323．R423 |
| A11371－9R21 | 0.2 DHM 0．10W 5\％CHIP 0805 | 3 | R14，fi 5．R33 |
| A11371－1011 | 100 OHM 0．10W 5\％LHIP BBO5 | 3 | R13，R147，R247 |
| A11371－1013 | 100 OHM ．25W 5\％ 1210 SMT T／R | 2 | R322，R422 |
| A11371－1022 | 1K 0．125W 5\％CHIP 1206 | 1 | R8 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R13日，R144．R23日，R244 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | 4 | R146．f161．R246．R251 |
| A11371－1561 | 15 OHM 0．18W 5\％CHIP | 5 | C606． $5607 . \mathrm{C60日}, \mathrm{R150}, \mathrm{R260}$ |
| A11371－1811 | 1 108 OHM 0．10W 5\％LHIP | 4 | R148．R153．R24日．9253 |
| A11371－2223 | 2．2K 0．25W 5\％CHIP 121日 | 2 | R132，R232 |
| A11371－2225 | 2．2K 1W 5\％CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | R4．R19 |
| A11371－3333 | 33K 0．25W 5\％CHIP 1218 | 6 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP 0805 | 7 | R3，R11，R26，R117，R217，R314． |
|  |  |  | R414 |
| A11371－3923 | 3．9X 0．25W 5\％CHIP | 3 | R16．R135，R235 |
| A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | 4 | R317．R31日，R417，R418 |
| A11371－4701 | 47 OHM 0．10W 5\％CHIP | 2 | R162，R262 |
| A11371－4724 | 4．7K OHM 0．50W 5\％CHIP 2010 | 2 | R142，R242 |
| A11371－5615 | 550 OHM $1 \mathrm{~W} 5 \% 2512$ T／R | 2 | R32，R34 |
| A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \%$ CHIP | 4 | R15R，R165，R250，R265 |
| A11371－5RE5 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6814 | 6日0 OHM 0．50W 5\％LHIP | 6 | R105，R128．R181，R205．R22日．R2日1 |
| A11371－6821 | 6．日K 0．10W 5\％CHIP 0日85 | 2 | R127．R227 |
| A11371－7511 | 750 OHM D． 10 W 5\％CHIP | 3 | R28．R133．R233 |
| A11371－8201 | 82 OHM 0．10W 5\％CHIP | 4 | R136，R194，R236，R294 |
| A11371－8205 | 82 OHM iW 5\％CHIP 2512 | 1 | R607 |
| A11371－8211 | 日20 OHM D． 10 W 5\％CHIP | 5 | R129，R141，R195，R229，R241，R295 |
| A1137日－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | 4 | ［109．С111．c209．c211 |
| A11427－103K5 | D． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{~A} 1206$ | 2 | C143．C243 |
| A11427－104K2 | 0． 1 MF 50V 10\％0日05 | 33 |  |
|  |  |  | C115．C122，ᄃ126，C127，C12日． |
|  |  |  | C129，ᄃ130，ᄃ131，C132，C133． |
|  |  |  | ᄃ139，С215，C222，C226．C227． |
|  |  |  | C228．c229．c230，ᄃ231．C232． |
|  |  |  | C233，С239， $5505.5506 . \mathrm{C605}$. |
| A11427－123K2 | 0.012 MF 50V 10\％CHIP | 2 | C112．С212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP 0日05 | 2 | ［117，C217 |
| A11427－472K2 | 470日PF 50V 10\％×7R 0805 | 4 | C116．C119，C216．C219 |
| C 2851－1 | 1 N 4004 SILICON RECT． | 7 | D1，D2，D3，D4．D6，D7，D10 |
| C 3510－2 | CHOKE，470UH 10\％AXIAL | 4 | L100，L101．L200．L201 |
| C 3549－0 | DIODE ZENER，10V， 1 N5240日 | 1 | D日 |
| C 3679－5 | 33UF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4．C5 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reseencen Useony CROWN INTERNATIONAL INC．

## PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATIDN |
| :---: | :---: | :---: | :---: |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | ப2 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| C 6日02－0 | 47 MF 50 V AX CERM | 2 | C102．C202 |
| C 7091－9 | 0．33 MF 50V CHIP 1206 | 3 | C22．C140．C240 |
| C 7325－1 | 2P 2 POS．PC SLIDE SW． | 1 | S2 |
| C 744日－1 | MMET3904 C．HIP NPN | 6 | 0100．0101．0129．0200．0201．0229 |
| C 8262－5 | MC3307日D DUAL LO NOISE OP AM | 4 | ப4，ப5，ப105，ப205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9012－3 | MC33079D QUAD LO NOISE OP AM | 3 | ப101．ப201．ப500 |
| C 903日－8 | COMPARATOR，QUAD LM339D SO－1 | 4 | ப102．ப104，ப202，ப284 |
| ［ 9157－6 | 100 UF $16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／ | 2 | C123． C 223 |
| C 3252－5 | 2N3904 40V NPN TRANSISTOR | 2 | 0104．0204 |
| C 9203－0 | DIODE，1N914／1N414日 SDT－23 5 | 56 | D9，D13，D101，D102，D103，D104． |
|  |  |  | D105，D106，D107．D18日，D109． |
|  |  |  | D110．D111．D112．D113．D116． |
|  |  |  | D117．D118．D119．D120．D121． |
|  |  |  | D122，D123．D1 24，D125，D126． |
|  |  |  | D127．D12日．D129，D130，D201． |
|  |  |  | D202．D203．D204．D205．D206． |
|  |  |  | D207．D208．D209．D210，D211． |
|  |  |  | D212，D213，D216，D217，D21日， |
|  |  |  | D221，D222，D223，D224，D225， |
|  |  |  | D226．D227，D228，D229，D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP38，TP39 |
| C 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | ப1×．U $2 \times$ |
| C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－ | 5 | प102，Q109，प111，प202，Q209，प211 |
| C10196－1 | 2．2MF 50V 20\％RAD T／R | 4 | C121，C124，C221，C224 |
| C10208－4 | 100 MF 25V 20\％VERT ELEC | 2 | C105．c205 |
| C10422－1 | DIODE，3A 400V 1N5404 AXIAL | 4 | D114，D115，D214，D215 |
| C10613－5 | 1K TOP ADJLST TRIMMER T／R | 2 | R134，R234 |
| D 8917－3 | 日20日UF 110 VDC ELECTROLYTIC | 2 | С20．С21 |
| H42902－9 | ASM．THERMAL SENSE | 2 | ப106，ப206 |
| 101016－1 | L日L．BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON，AUTO INSERTABLE | 3 | WP 4，WP5，WP7 |
| 101571－1 | HDR 2 POS ， 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 PQS ． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK，GP4 COND MODULAR R／A | 1 | J5 |
| 10213日－9 | PWB．CE10日Q／CE2000 MAIN／INPU | 1 | 1 |
| 102438－101K2 | 100PF 200V 10\％NPO 0日85 | 6 | C104，C120，C135．c204．C220．c235 |
| 102438－560K2 | 56PF 200V 10\％NPO 0805 | 4 | C106，c206， 5504,5604 |
| 102438－820K2 | 日2PF 200V 10\％NPO 0日05 | 4 | C188，C138，C208，ᄃ23日 |
| 102465－1 | 47UF 50V 20\％RADIAL T／R | 2 | C101．E201 |
| 102466－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102487－1 | 22MF 25V $20 \%$ RAD T／R | 4 | C103． $2203,5503, \mathrm{C603}$ |
| 182468－1 | 47UF 10V 20\％NP RAD T／R | 4 | C113．C114．C213．C214 |
| 102470－1 | INDUCTOR，2．75UH 11A RADIAL | 2 | L102．L202 |
| 182471－2 | HDR，12POS 2.5 MM RT ANG KEYE | 1 | 」502 |
| 102472－3 | HDR，16POS ． 100 CTR SGL ROW | 1 | J 3 |
| 102473－1 | SPEAKON， 4 POLE PCE HORZ | 2 | 」100． 1200 |

## INACTIVE

For Reference Use Only

| THEGE DRAWINGS AND SPECIFICATIONS ANE THE SHAL NOT EE REPRODUCEDA CODIED：OA USED AE TME OASTIS FOR THE MANUFACTUBE OR SALE |
| :---: |
|  |  |
|  |  |
|  |  |




| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| PEF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 102466－1 | 10UF 250V 20\％RADIAL T／R | J 8 |
| C2 | A11427－104K2 | 0.1 MF 50V 10\％0905 | F 9＊ |
| ᄃ． | 125508－1 | 1日UF SUVDC ELECTROLYTIC SMD | 18 |
| C4 | C 4477－3 | 470 MF 35V VERT | 610 |
| C5 | C 4477－3 | 470 MF 35V VERT | 59 |
| C6 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H 10＊ |
| C7 | A1 1427－1日4K2 | 0． 1 MF 5日V 10\％0805 | H ${ }^{*}$ |
| C12 | A 11427－104K2 | D． 1 MF 50V 10\％8B05 | I 9＊ |
| C20 | D 8917－3 | 8200LF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 820日UF 11 QVDE ELECTROLYTIC | 98 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1285$ | N 9＊ |
| C24 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 日日05 | N 9＊ |
| C25 | A11427－104K2 | D． 1 MF 50V 10\％0805 | O 9＊ |
| C26 | C 15576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | I 9 |
| C27 | C 5362－5 | 2.2 MF S®V VERT | H 10 |
| C28 | A11427－104K2 | 0.1 MF 50 V 10\％0日05 | 」 9＊ |
| C29 | A11427－184K2 | D． 1 MF 50 V 10\％0805 | I 9＊ |
| C30 | 12550日－1 | 1 UUF 50VDE ELECTAOLYTIC SMD | I 8 |
| C31 | C 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102465－1 | 47 LF 50V 20\％RADIAL T／R | M 9 |
| C102 | C 6日02－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 20\％RAD T／R | M 9 |
| C104 | 102438－101K2 | 100 PF 200 V 10\％NPO 0日05 | M G＊$^{*}$ |
| C105 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－560K2 | 56PF 200V 10\％NPO 0805 | L． ＊＊$^{\text {＊}}$ |
| C107 | A 1 1369－270K2 | 27PF 50V 10\％NPO 0805 T／A | L 9＊$^{\text {＊}}$ |
| C10日 | 102438－820K2 | 日2PF 20®V 10\％NPO 0805 | ᄂ 18＊ |
| C109 | A11427－103K2 | 0.01 MF 50 V 10\％［HIP 0805 | H 6＊ |
| C110 | A1 1369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | M ${ }^{*}$ |
| C111 | A11427－103K2 | ロ． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | N 8＊＊ |
| C112 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP}$ | 口 8＊ |
| C113 | 10246日－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C114 | 10245日－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C115 | A11427－104K2 | D． 1 MF 50V 10\％0805 | N 8＊ |
| C116 | A11427－472K2 | 470QPF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 2700PF 50V 10\％CHIP 『805 | I 7＊ |
| C118 | A10434－104」D | $0.1 \mathrm{MF} 250 \mathrm{~V} 5 \% \mathrm{MTL}$ POLY | 18 |
| C119 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | I 7＊ |
| C120 | 10243日－101K2 | 100PF 200V 18\％NPO 0805 | I 7＊ |
| C．121 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | $G 8$ |
| C122 | A11 427－104K2 | 0． 1 MF 50V 10\％0B05 | F $\mathrm{B}^{*}$ |
| C123 | C 9157－6 | $100 \cup F$ 16V $20 \%$ NP ELEC RAD T／R | F 日 |
| C124 | C18196－1 | 2．2MF 50V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | D． 1 MF 50V 10\％0805 | N 10＊ |
| C127 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N 9＊ |
| C128 | A1 1427－184K2 | 0．1 MF 50V 10\％0805 | M 10＊ |
| C129 | A11427－104K2 | 0．1 MF 50V 18\％0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


PARTS LIST

| REF DES | E．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | H $8^{*}$ |
| C131 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0日05 | H 7＊ |
| C132 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | F 7＊ |
| C133 | A11427－104K2 | 0.1 MF 50V 10\％0e05 | F 日＊ |
| C134 | A11369－102J2 | $0.001 \mathrm{LF} 50 \mathrm{~V} 5 \% \mathrm{NPO}$ MLC 0B05 T／ | M 7＊ |
| C135 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | N 7＊ |
| C136 | 103210－1 | 2．2UF 160V RADIAL T／R | I 7 |
| C137 | 103210－1 | 2．2UF 160V RADIAL T／R | 17 |
| C138 | 10243日－820K2 | 日2PF 200V 10\％NPO 0805 | M 7＊ |
| C139 | A11427－104K2 | 0.1 MF 50V 10\％0805 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V CHIP 1206 |  |
| C141 | A11389－471K2 | 470PF 50V 10\％NPO 0805 T／R | N 10 |
| C142 | A11369－330J2 | 33PF 50V 5\％NPO MLC 0日日5 | M 10 |
| C143 | A11427－103K5 | 0．В1MF 50V 5\％×7R 1206 | M 9＊ |
| C144 | 103191－1 | 0.47 LF Z5U 1210 20\％50V | G 7＊ |
| C201 | 102455－1 | 47UF 50V 20\％RADIAL T／R | J 9 |
| C 202 | C 6802－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 10243日－101K2 | 108PF 20ロV 10\％NPO Q日Q5 | J 9＊ |
| C205 | ᄃ1220日－4 | 108 MF $25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| C206 | 10243日－560K2 | 5EPF 200V 10\％NPO 0805 | J 9＊ |
| C207 | A11359－270K2 | 27PF 50V 10\％NPO 0805 T／R | J 9＊ |
| C20日 | 10243日－日20K2 | 日2PF 200V 10\％NPO 0805 | J 10＊ |
| C209 | A11427－103K2 | 0.01 MF 50 V 10\％CHIP 0日05 | H ${ }^{*}$ |
| ᄃ210 | A11369－471K2 | 478PF 50V 10\％NPO D805 T／R | K 7＊ |
| C211 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | K 7＊ |
| C212 | A11427－123K2 | 0.012 MF 50 V 10\％LHIP | L 日＊ |
| C213 | 102468－1 | 47UF $10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | K 日 |
| C214 | 102468－1 | 47UF 10V 20\％NP RAD $T /$ R | $K 8$ |
| C215 | A11427－104K2 | 0.1 MF 50V 10\％0805 | K $\mathrm{E}^{*}$ |
| C216 | A11427－472K2 | 470日PF 50V 10\％×7R 8日05 | 」 2＊ |
| C217 | A11427－272K2 | 270日PF 50V 10\％CHIP 0805 | D $1^{*}$ |
| C218 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％×7R 0日05 | E 1＊ |
| C220 | 102438－101K2 | 100PF 200V 10\％NPD 0日Q5 | D 2＊ |
| C221 | C10198－1 | 2．2MF 50V $20 \% \mathrm{RAD} \mathrm{T/A}$ | E 日 |
| C222 | A11427－104K2 | 0.1 MF 58V 10\％0805 | E $\mathrm{E}^{*}$ |
| C223 | C 9157－6 | 100UF 16V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10198－1 | 2．2MF 50V 20\％RAD T／R | 」 9 |
| C226 | A11427－104K2 | 0.1 MF 50V 10\％E805 | K 10＊ |
| C227 | A11427－104K2 | D． 1 MF 50V 10\％BB05 | K 9＊ |
| C228 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | 」 $10 *$ |
| C229 | A11427－1日4K2 | 0． 1 MF 50V 10\％0日05 | J $9^{*}$ |
| C230 | A11427－104K2 | Q． 1 MF 50V 10\％0B05 | E 8＊ |
| ᄃ231 | A11427－104K2 | 0． 1 MF 50V 10\％8005 | E 7＊ |
| C232 | A1 1427－104K2 | 0.1 MF 50V $10 \%$ 0B05 | E 7＊ |
| C233 | A11427－104K2 | D． 1 MF 50V 10\％8B05 | D 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| C234 | A11369－102J2 | 0.001 JF 50 V 5\％NPO MLC 0日05 T／ | 」 7＊ |
| C235 | 102438－101k2 | 10日PF 200V 10\％NPO 日日05 | 」 2＊ |
| C236 | 103210－1 | 2． 2 UF 1 60 V RADIAL T／A | 11 |
| C237 | 103210－1 | 2．2LF 168V RADIAL T／R | I 1 |
| C238 | 10243日－820K2 | 日2PF 200V 10\％NPO 0805 | 」 7＊ |
| C239 | A11427－104K2 | ®． 1 MF 50V 18\％0日05 | E 7＊ |
| C240 | C 7031－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | J 9 |
| C241 | A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | L 10 |
| C242 | A11369－33012 | 33PF 50V 5\％NPO MLC 0805 | K 10 |
| C243 | A11427－103K5 | B． 11 MF 50 V 5\％$\times 7 \mathrm{R} 1206$ | K 9＊ |
| C244 | 103191－1 | 0．47UF Z5U $121020 \% 58 \mathrm{~V}$ | E 7＊ |
| ᄃ500 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| c501 | A11369－120K2 | 12PF 50V 10\％NPO $0805 \mathrm{~T} / 8$ | A 2 |
| C502 | A11359－120K2 | 12PF 50V 10\％NPO 0805 T／R | B 2 |
| C503 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \%$ RAD T／R | B 2 |
| C504 | 10243日－560K2 | 5SPF 20日V 10\％NPD 0805 | A 2 |
| C505 | A11427－104K2 | 0.1 MF 50V 10\％0805 | A 2 |
| 2506 | A11427－104K2 | B． 1 MF 50V 10\％0805 | A 2 |
| C509 |  | OPEN |  |
| C600 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| CE® 1 | A11369－120k2 | 12PF 50V 10\％NPO 0805 T／R | A 1 |
| C602 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| C603 | 102467－1 | 22MF 25V 20\％RAD T／R | B 2 |
| CEQ4 | 10243日－560K2 | S6PF 200V 10\％NPO 8805 | B 2 |
| C605 | A11427－104K2 | 0． 1 MF 50V 10\％ 0805 | A 1 |
| C608 | A11371－1501 | 15 OHM ．1 W 5\％0805 T／R |  |
| С6ロ7 | A11371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \%$ 0805 T／R | C 3 |
| С60日 | A11371－1501 | $15 \mathrm{OHM} .1 \mathrm{~W} 5 \%$ 2805 T／R | B 1 |
| C609 |  | OPEN | B 2 |
| D1 | C 2851－1 | 1 N4004 SILICON RECT． | 59 |
| D2 | C 2851－1 | 1 N40B4 SILICON RECT． | G 10 |
| D3 | C 2851－1 | 1 N4004 SILICON RECT． | 610 |
| D4 | C 2851－1 | 1 N4004 SILICON RECT． | G 10 |
| D6 | C 2851－1 | 1N40日4 SILICON RECT． | 」 B |
| D7 | C 2851－1 | 1N40®4 SILICON RECT． | 」 8 |
| D8 | C 3549－0 | DIODE ZENEA．10V． 1 N5240日 | J 8 |
| D9 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 5MT | I 9＊ |
| D10 | ᄃ 2日51－1 | 1 N4004 SILICON RECT． | 110 |
| D13 | ᄃ 9283－0 | DIODE，1N914／1N414B SOT－23 SMT | I 9＊ |
| Di 11 | C 92日3－0 | DIODE，iN914／1N414日 SOT－23 SMT | N 9＊ |
| D102 | ᄃ 5283－0 | DIODE，1N914／1N414日 SDT－23 SMT | N 9＊ |
| D103 | C 9283－E | DIODE，1N914／1N414B SOT－23 SMT | L 9＊ |
| D104 | C 9283－8 | DIODE，1N914／1N414日 SOT－23 SMT | M 9＊ |
| D105 | C 9283－8 | DIODE，1N914／1N414日 50T－23 SMT | L 9＊ |
| D106 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 5MT | N 日＊ |
| D107 | C 9283－0 | DIODE，iN914／1N4148 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D108 | C 9283－0 | DIODE． 1 N914／1N414日 SOT－23 SMT | N 日＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D22日 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | E 7＊ |
| D229 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | F 6＊ |
| D230 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 9 |
| E1 | 102476－1 | LED，SMT R／A GREEN | 11 |
| E100 | 102477－1 | LED，SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED．SMT A／A GREEN | 」 1 |
| E182 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E261 | 10247日－1 | LED，SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| HS 1 | 102575－3 | HS ASM，T2 NON－ISOLATED CH1． | L． 6 |
| HS2 | 102576－3 | HS ASM，T2 NON－ISOLATED CH2． | L 3 |
| HS3 | 102573－3 | HS ASM，T2 ISOLATED Ch1．． | G 6 |
| H54 | 102574－3 | HS ASM．T2 ISOLATED［H2， | G 3 |
| HW | 102578－1 | SPACER， $6 \times .125$ AL BLK ANODIZED | A 4 |
| HW2 | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANODIZED |  |
| HW3 | 102578－1 | SPACER， $6 \times 125$ AL BLK ANODIZED | A 4 |
| HW4 | 102578－1 | SPACER，EX． 125 AL BLK ANDDIZED | A 4 |
| HW5 | 102578－1 | SPACER，EX． 125 AL ELK ANODIZED | A 4 |
| HW6 | 102578－1 | SPACER，EX． 125 AL 日LK ANODIZED | B 4 |
| HW7 | 102578－1 | SPACER． $6 \times .125 \mathrm{AL}$ 日L．K ANODIZED | 日 4 |
| HWE | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ BLK ANODI2ED |  |
| HW9 | A10020－7 | 6－32 $\times$ ． 625 PC日 CAPTIVE STUD | D 5 |
| HW10 | A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | I 6 |
| HW1 1 | A18020－7 | 6－32 $\times .625$ PC日 CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | I 3 |
| HW1 3 | A10020－7 | $5-32 \times .625$ PC日 CAPTIVE STUD | J 5 |
| HW1 4 | A10020－7 | $6-32 \times .625$ PC日 CAPTIVE STUD | N 6 |
| HW15 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | J 2 |
| HW16 | A10020－7 | 6－32 $\times$ ． 525 PC日 CAPTIVE STUD | N 3 |
| HW1 7 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW1 8 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW1 9 | A11058－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW20 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW21 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW22 | A11058－1 | 6－32 HEX NUT W／EELLEVILLE | 日 4 |
| HW23 | A1 1856－1 | 6－32 HEX NUT W／BELLEVILLE | Q 4 |
| HW2 4 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | 白 4 |
| HW25 | 102579－1 | STAND．1／4 RD SWAGE AL |  |
| HW26 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW27 | 103435－70608 | SCREW，6－32 X．5 TORX PNHD SEM | A 4 |
| HW28 | 103435－70608 | SCREW，6－32 $\times .5$ TORX PNHD SEM | A 4 |
| J 2 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J3 | 102472－3 | HDR，16POS ． 100 ETR SGL ROW | M 9 |
| J 4 | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| 35 | 101993－1 | JACK，EP4 COND MODULAR R／A |  |
| 」100 | 102473－1 | SPEAKON． 4 POLE PCE HORZ | D 10 |
| J200 | 122473－1 | SPEAKON． 4 POLE PCB HORZ | F 10 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| 」50® | 126929－1 | 1／4＂TRS／XLR COMED PCB VERT | B 3 |
| 5502 | 102471－2 | HDA，12POS 2．5MM RT ANG KEYED | C 1 |
| 」600 | 126929－1 | 1／4＂TRS／XLR COMED PCE VERT |  |
| K100 | 126317－1 | REL．30A 24V SPST PCB W／FASTON | G 9 |
| K200 | 126317－1 | REL，30A 24 V SPST PCB W／FASTON | E 9 |
| L． 190 | C 3510－2 | CHOKE，470UH 10\％AXIAL | N 7 |
| L191 | C 3510－2 | CHOKE． $478 \mathrm{UH} 10 \% \mathrm{AXIAL}$ | 17 |
| L192 | 102470－1 | INDLCTOR，2．75UH 11A RADIAL | H 日 |
| L200 | C 351日－2 | CHOKE，470UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOKE．478UH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | I 1 |
| Q1 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| Q2 | 102479－1 | PWR M $\lrcorner$ D112 NPN DARLINGTON 100 V | 110 |
| Q3 | 102479－1 | PWR MJD112 NPN DARLINGTON 10日V | I 10 |
| 0100 | C 7448－1 | MM9T3904 CHIP NPN | M 9＊ |
| Q1建 | C 7448－1 | MMET3904 CHIP NPN | M ${ }^{*}$ |
| Q102 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SQT－23 | N 9＊ |
| Q183 | 102483－1 | PNP 30日V 50QMA SOT－23 | L 9＊ |
| 0104 | C 9252－5 | 2N3984 40V NPN TRANSISTOR | I 6 |
| Q105 | 103193－1 | PNP 30日V 500MA 50MHZ SOT－223 | M ${ }^{\text {＊}}$ |
| 0107 | 103192－1 | NPN 30日V 50日MA 50MHZ SOT－223 | M 7＊ |
| 0108 | 102481－1 | NPN 25V LOW NOISE SOT－23 | N日＊ |
| 0109 | C 9931－4 | MMET5087LT1 PNP $\times$ SISTOR SOT－23 | N $\mathrm{E}^{*}$ |
| Q110 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | N 7＊ |
| Q111 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q112 | 103200－1 | NPN 230V 15A 30MHZ $25 C 5242$ | N 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0120 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | I 7＊ |
| 0121 | 103200－1 | NPN 230V 15A 30MHZ 25C5242 | I 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0129 | C 7448－1 | MMET3504 CHIP NPN | G 9＊ |
| Q131 | 125185－1 | MACGD 日 AMP 40DV TRIAC | F 9 |
| 0132 | 10247日－1 | TRIAC DAIVER S8S EV THRESH | F 9 |
| 0133 | 1024日日－1 | FET．N－CH 25V 50MA SOT－23 | M 9＊ |
| प200 | C 744日－1 | MMET3904 CHIP NPN | K 9＊ |
| 0201 | C 744日－1 | MMET3904 CHIP NPN | K 9＊ |
| $\square 202$ | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R21 | A11 36B－12121 | 12．1K OHM 0．10W 1\％CHIP 0日05 | J 9＊ |
| R22 | A1136日－39231 | 392K E．10W 1\％CHIP 0805 | I 9＊ |
| R23 | A1136B－39231 | 392K 0．10W 1\％CHIP 0885 | $19^{*}$ |
| R24 | A1136日－57621 | 57．6K 日．10W 1\％CHIP 0805 | I 9＊ |
| R25 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0805 | N 9＊ |
| R26 | A11371－3341 | 330K E．10W 5\％CHIP 0805 | A 9＊ |
| R27 | A1136日－20021 | 20K 1／10W 1\％CHIP 0805 | L O＊$^{*}$ |
| R2日 | A11371－7511 | 750 OHM 0.10 W 5\％CHIP | L 9＊ |
| R29 |  | OPEN | 日 2 |
| ค30 | A1135日－10031 | 100K 0．1W 1\％CHIP 0805 | I $8^{*}$ |
| R31 | A1138日－10031 | 100K 0．1W 1\％CHIP 0905 | 」 $日^{*}$ |
| R32 | A11371－5615 | 56b OHM iW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 8 |
| R33 | A11371－DR21 | 0.2 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R34 | A11371－5615 | 56日 OHM 1W 5\％2512 T／R | J 8 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11368－10011 | 1K 日．10W 1\％CHIP 0a8s | M 10＊ |
| R102 | A11368－39231 | 392K 0．10W 1\％CHIP 0日05 | N 9＊ |
| R103 | A1 136日－49901 | 499 OHM 日．10W 1\％CHIP BBD5 | N 9＊ |
| R104 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | N 9＊ |
| R105 | A11371－6日14 | 8日0 OHM 0．50W 5\％CHIP | 」 ${ }^{*}$ |
| R106 | A11368－10011 | 1 K 0.10 W 1\％CHIP 0885 | M 日＊$^{*}$ |
| R107 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | L 10＊ |
| R108 | A11368－10021 | 10K $1 / 10 \mathrm{~W}$ 1\％CHIP Bges | L．10＊ |
| R109 | A11368－19122 | 19．1K 0．125w $1 \%$ CHIP 1206 | M ${ }^{*}$ |
| R110 | A1136日－10011 | 1K ロ．10W 1\％CHIP 080 | L $\mathrm{S}^{*}$ |
| R111 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | L 9＊ |
| R112 | A10265－19121 | 19．1K 0．25W $1 \% \mathrm{MF}$ | L 9 |
| R113 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日05 | L 10＊ |
| R114 | A1136日－日2511 | 日．25K 0．1W 1\％CHIP 0805 | L 10＊ |
| R115 | A11368－68：21 | 68．1K $0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ | L 10＊ |
| R116 | A1136日－22601 | 226 OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0B05 | M 9＊ |
| R117 | A11371－3341 | 330 K 0．10W 5\％CHIP 0805 | M 9＊ |
| R11日 | A11368－10221 | 10．2K 0．10W 1\％LHIP D日05 | M 10 |
| R119 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | M ${ }^{*}$ |
| R120 | A11368－90921 | 90．9K D．10W 1\％CHIP 0日05 | M \％$^{*}$ |
| R121 | A1 136日－10021 | 10K 1／10W 1\％CHIP 0805 | M 10 |
| R1 22 | A1136日－15831 | 158K 0．10W 1\％CHIP 8805 | N 9＊ |
| R123 | A1136日－10031 | 100K 0．1W $1 \%$ LHIP 0805 | M ${ }^{*}$ |
| R124 | A1135日－15831 | 15日K 0．10W 1\％CHIP 0805 | M 9＊ |
| R125 | A1 1 368－10031 | 100K 0．1W $1 \%$ CHIP 0805 | N 9＊ |
| R126 | A11368－49921 | 43．9K 0．1W $1 \%$ CHIP 0805 | M $9^{*}$ |
| R127 | A11371－5日21 | 5．日K 0．10W 5\％CHIP 2805 | N 9＊ |
| R128 | A11371－68 4 | 880 OHM 0．50W 5\％CHIP | 」 1＊ |
| R123 | A11371－6211 | 820 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | $\bigcirc 日^{*}$ |
| F1 31 |  | OPEN | ［ 8＊ |
| R132 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H E＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| R185 | A1135日－10021 | 10K 1／10W 1\％CHIP D日B5 | G 日＊ |
| R1㒶 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0日05 | N 10＊ |
| F1日7 | A11368－15831 | 158K 0．10W 1\％CHIP 8805 | M 10＊ |
| F1日厚 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | N 10＊ |
| R1日 | A11368－10831 | 100K 0．1W $1 \%$ CHIP 0日05 | M 10＊ |
| R190 | A11368－57821 | 57． 5 K ロ．10W 1\％CHIP 0805 | N 6＊ |
| R191 | A1 1 368－22801 | 226 OHM 0．10W 1\％CHIP 0日05 | N 6＊ |
| R192 | A11368－60432 | E04K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | L 9＊ |
| R193 | A11368－10021 | 10K 1／10W 1\％CHIP 日日05 | N 9＊ |
| R194 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M ${ }^{*}$ |
| R195 | A11371－8211 | 820 DHM 0．10W 5\％CHIP | M 7＊ |
| R196 | A1 1368－10021 | 10K 1／10W 1\％CHIP ge05 | M 9＊ |
| R197 | A11368－61911 | 6．19K 0．10W 1\％CHIP 8805 | M 10 |
| R198 |  | OPEN | M 10 |
| R199 | A11371－0RE2 | 0.0 OHM JUMPER CHIP 1206 | N 白＊ |
| R200 | 102595－3 | POT，5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | K 10＊ |
| R202 | A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L O＊$^{*}$ |
| R203 | A11368－49901 | 495 OHM D．10W 1\％CHIP D日05 | L $\mathrm{G}^{*}$ |
| R204 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | L 9＊＊ |
| R205 | A11371－6814 | 6日B DHM $2.50 W 5 \%$ CHIP | M 1＊ |
| R206 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 ＊＊$^{\text {a }}$ |
| R209 | A11368－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ LHIP 1206 | K 9＊ |
| R210 | A11368－10011 | 1K 0．10W 1\％CHIP 0日05 | J 9＊ |
| R211 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日®5 | 」 ＊$^{*}$ |
| R212 | A10265－19121 | 19.1 K D．25W $1 \% \mathrm{MF}$ | 」 9 |
| R213 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日BS | 」10＊ |
| R214 | A11368－82511 | B．25K 0．1W $1 \%$ CHIP 0805 | 」 10＊ |
| R215 | A11368－68121 | 6日．1K 0．10W 1\％CHIP | 」10＊ |
| R216 | A11368－22601 | 226 OHM 0．10W 1\％CHIP 0日®5 | K 9＊ |
| R217 | A11371－3341 | 330K 0．10w 5\％CHIP 0805 | 」 9＊ |
| R218 | A11368－10221 | 10．2K 0．10W 1\％CHIP 0805 | K 10 |
| R219 | A11371－3333 | 33K 日．25W 5\％CHIP \｛210 | 」 －$^{*}$ |
| R220 | A1 1368－90921 | 90．SK 8．10W 1\％CHIP 0日⿹勹 | K ${ }^{*}$ |
| R221 | A11368～10021 | 10K 1／10W 1\％LHIP 0日05 | K 10 |
| R222 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | K K＊$^{*}$ |
| R223 | A1136日－10031 | 100K 0．1W 1\％CHIP g日Q5 | K 9＊ |
| R224 | A1 1368－15831 | 15日K 0．10W 1\％CHIP 0日05 | K 9＊ |
| R225 | A11368－10031 | 100K 0．1W 1\％LHIP 0日05 | L $9^{*}$ |
| R226 | A11368－49921 | 49．9K 0．1W 1\％CHIP D805 | K 9＊ |
| R227 | A11371－6821 | 6．8K 0．10W 5\％LHIP 0日05 | K ＊$^{*}$ |
| R228 | A11371－6814 | 8日® DHM D．50W 5\％CHIP | M 1＊ |
| R229 | A11371－8211 | 820 OHM D．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K D．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 日．10W 5\％CHIP | H 3＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Oniy


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | J 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 ${ }^{*}$ |
| R236 | A11371－8201 | 日2 OHM 0．10W 5\％CHIP | 」 7＊ |
| R237 | A1136日－15002 | 150 OHM 0．125W 1\％CHIP | K $\mathrm{E}^{*}$ |
| R238 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A1136日－10703 | 107 OHM $0.25 \mathrm{~W} 1 \%$ LHIP | K $\mathrm{E}^{*}$ |
| R246 | A11371－3333 | 33K 0．25W 5\％EHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 OHM D．10W 5\％CHIP | L $8^{*}$ |
| R242 | A11371－4724 | 4.7 K OHM 0．50W 5\％CHIP 2010 | L $7 *$ |
| P243 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \% \mathrm{CHIP} 1210$ | K 8＊ |
| R24 4 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $日^{*}$ |
| R245 | A11368－75R03 | 75 OHM 0.25 W 1\％EHIP 1210 | K $日^{*}$ |
| R246 | A11371－1331 | 13 K OHM D．10W 5\％CHIP 0805 | 」 2＊ |
| R247 | A11371－1811 | 108 OHM D．10W 5\％CHIP DA05 | 」 2＊ |
| R248 | A11371－1811 | 1日日 OHM 日．10W 5\％CHIP | K 2＊ |
| R250 | A11371－5R63 | 5．6 0．25W 5\％CHIP | J 2＊ |
| R252 | 103199－1 | Q． 4 DHM 1W 5\％ 2512 T／R | K 4＊ |
| R253 | 183199－1 | 0.4 ロHM 1W 5\％ 2512 T／R | K 3＊ |
| R254 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | L 4＊ |
| R255 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 3＊ |
| R256 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| R259 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM D．10W 5\％CHIP | D 1＊ |
| P261 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | E 2＊ |
| R262 | A11371－4701 | 47 DHM 0．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \%$ CHIP | E 2＊ |
| R267 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | E 4＊ |
| R268 | 103199－1 | 0．4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R269 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 4＊ |
| R270 | 103195－1 | D． 4 OHM 1W 5\％ 2512 T／R | G 3＊ |
| R271 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H 4＊ |
| R272 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | H 3＊ |
| R274 | A1136日－60432 | 604K OHM 0．125W 1\％EHIP 1206 | E 8＊ |
| R275 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | E 8＊ |
| R278 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | E 8＊ |
| R277 | A1136日－10621 | 10K 1／10W 1\％CHIP 0B05 | E 日＊ |
| R278 | A1136日－90921 | 90．9K D．10W 1\％CHIP 0805 | L 9＊ |
| R279 | A1136日－10031 | 10日K 0．1W 1\％CHIP 0895 | E 7＊ |
| R290 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | E 8＊ |
| R281 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | M 1＊ |
| R282 | A1136日－10021 | 10K 1／10W 1\％EHIP 0日05 | D 8＊ |
| R283 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | E 日＊ |
| R284 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
| R285 | A11368－10021 | 10K 1／10W 1\％CHIP 0895 | F 8＊ |
| R286 | A11368－10031 | 100K 0．1W 1\％CHIP 0a05 | L 18＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
THESE DAAWINGS AND SPECIFICATIONS ARE TME
 OF TME BASIS FOR THEL MANUFACTURE OR SALE

CRIWN INTERNATIUNAL INC． 1718 west mishawaka moad elkhart，indiana 48517 phone 12191 294－e日be



PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R412 | 103199－1 | 0.4 DHM iW 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | $13^{*}$ |
| R4 13 | A1136B－10021 | 10K 1／10W 1\％CHIP 0805 | E 7＊ |
| R414 | A1 1371－3341 | 330K 0．10W 5\％CHIP 0805 | E 7＊ |
| R415 | A1136日－51111 | 5．11K OHM 0．10W 1\％CHIP OB05 | E 7＊ |
| R416 | A1136日－10011 | 1K 0．10W 1\％LHIP 日日05 | K 10＊ |
| R417 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R41日 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | $K 8$ |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5．6 OHM 1W 5\％CHIP 2512 | H $1^{*}$ |
| R421 | A11371－5R65 | 5.6 OHM IW 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 OHM ．25W 5\％1210 5MT T／R | 」 9 |
| R423 | A11371－0R02 | D． $0^{\text {OHM }}$ JUMPER CHIP 1206 | F 8 |
| R500 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | A 3 |
| R501 | A1 1358－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| F502 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | B 2 |
| R503 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | 日 2 |
| R504 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R506 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | A 2 |
| R508 |  | OPEN | C 2 |
| REDE | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| RED 1 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R602 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R603 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| REO4 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 1 |
| R606 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | B 2 |
| R607 | A11371－8205 | 日2 DHM 1 W 5\％CHIP 2512 | A 1 |
| R60日 |  | OPEN | C 1 |
| 51 | 1024日8－1 | SPDT HORIZ SLIDE | L 10 |
| S2 | C 7325－1 | 2P 2 POS．PC SLIDE SW． | L 10 |
| TB1 | 102475－1 | 日LOCK， 5 POS TERMINAL | A 2 |
| TP3日 | C 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | C 9896－9 | TEST POINT LOOP | N 7 |
| ப1 | ᄃ 5095－2 | POS． 15 VOLT REG． | H 10 |
| L1 $\times$ | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |
| $\sqcup 2$ | C 5096－0 | NEG． 15 VOLT REG． | H 9 |
| L2x | ［ 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |
| U3 | 102486－1 | OPTO 日JT NPN SOIC－8 CTR＝180\％ | N 10 |
| $\sqcup 4$ | C 8262－5 | ML3307ED DUAL LO NOISE OP AMP | 19 |
| U5 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |
| U100 | 102723－2 | OPTO CELL ON＝500 DHM | M 9 |
| U181 | C 9012－3 | MC33079D DUAD LD NQISE OP AMP | M 10 |
| ப102 | C 9038－8 | COMPARATOR．QUAD LM339D S0－14 | N 9 |
| U104 | ［ 9038－8 | COMPARATOR，QUAD LM339D S0－14 | G 7 |
| ப105 | C 8262－5 | ML33078D DUAL LO NOISE OP AMP | F 7 |
| ப186 | H42902－9 | ASM．THERMAL SENSE | N 6 |
| ப200 | 102723－2 | OPTO CELL ON－500 OHM | K 9 |
| U201 | C 9012－3 | MC3．3079D QUAD LO NOISE OP AMP | 」 10 |
| ப202 | ᄃ 903日－8 | COMPARATOR．QLJAD LM339D S0－14 | K 9 |
| ப204 | C 903日－8 | COMPARATOR，OUAD LM339D S0－14 | E 7 |
|  |  |  |  |

## INACTIVE

For Reference Use Only

## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |  |
| :---: | :---: | :---: | :---: | :---: |
| ப205 | C 8282－5 | MC3307日D DUAL LO NOISE OP AMP | E 7 |  |
| U206 | H42902－9 | ASM，THERMAL SENSE | N 3 |  |
| ப500 | C 9012－3 | MC33079D QUAD LQ NQISE QP AMP | A 2 |  |
| WP 1 | A11378－A050U | WIRE， 36 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | 103331－N050R | WIRE， 16 日LK／WHT TAB $\times 5 \times$ T | A 9 |  |
| WP3 | A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | A 9 |  |
| WP4 | 101031－1 | 250 FASTON，AUTD INSERTABLE | D 7 |  |
| WP5 | 101031－1 | 250 FASTON．AUTO INSERTABLE |  |  |
| WP6 | 127442－1 | PREP．CE HI－V WIRE | J 8 |  |
| WP7 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D 8 |  |
| Z1 |  | OPEN | E 9 |  |
| 1 | 102138－9 | PWB，CE10日B／CE2000 MAIN／INPU | SEE C．OMP | MAP |
| 2 | 101016－1 | LBL．日ARCODE．． | SEE COMP | MAP |
| 3 | 125242－1 | CAP．． $625 \mathrm{ID} \times 1^{\prime \prime}$ VINYL | SEE COMP | MAP |
| 4 | 126日25－1 | SILICONE，CLEAR 30Z SYRINGE | SEE COMP | MAP |
| 5 | 125482－1 | ADHESIVE LOCTITE 384 QUTPUT | SEE COMP | MAP |
| E | 125483－1 | ACTIVATOR LDCTITE＂OUTPUT＂ | SEE COMP | MAP |
| 7 | 1031日0－1 | BUMPER，0．4＂TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 103180－1 | 日UMPER，0．4＂TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 1031日0－1 | BLMPER，0．4＂TALL BLK W／ADH | SEE COMP | MAP |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## INACTIVE

For Reference Use Only

## Component Map

for use with
Main PWA 102140-11



For Reference Use Only


| E．E．N． |  |  | DESERIPTION |  |  | nit Tourtile |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ZONE | REV． |  | DATE | $8 Y$ | CHK | ME | EE | PE |
|  |  | A | INITIAL RELEASE | 09／03／97 | DWW | TLM |  | PW | TS |
|  |  | 日 | RENAMED HW25 \＆HW28 TO HW1 \＆HW2．REMOVED R507 \＆ C507． 2503 \＆CGB3 WERE C 6075－1．NGTE 2 WAS 1 1月2日és－1．NOTE 3 WKS 102Beg－1． | 10／20／37 | TLM | KW |  |  | TS |
|  |  | C | NDTE 2 WAS 1 1月26日E－2，NDTE 3 WAS 1 182689－2． J5B1 WAS 102471－1． | 16／20／97 | TLM | KW |  |  | TS |
|  |  | D | NOTE 2 WAS 102G日B－3．NOTE 3 WAS $182689-3$. <br> A11371－8205 WAS A11371－8201，125365－1 WAS 102474－1， <br>  102471－2 WAS 125425－1．ADDED 102日g2－1． | 11－1日－97 | KL．W | TLM |  |  | Ts <br> 4 |
| 98E0693 |  | $E$ | NDTE 3 WAS 102689－4． | 22－13－98 | PC | Kw |  |  | 8 |
|  |  |  |  |  |  |  |  |  |  |

UNLESS OTHERWISE SPECIFIED，THE FINISHED PWA SHALL MEET：
IPC－A－61B＿CLAS5 2
NOTES：
1．SCHEMATIC DRAWING NUMEER 102567.
2．PWB PART NUMBER $10268 \mathrm{~B}-4$.
3．PWA PART NUMBEA 1026日9－5．
4．ALL LEADS SHALL EE TRIMMED TO ロ．093＂OR LES5．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
6．THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT BOARD AND SHALL GE PERMANENT．



PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A1136日－1002： | 1日．KOHM ． 1 W 1\％［HIP 0日05 | 日 | R500．R501，R502．R503． |
|  |  |  | R600．RE01．R602．R603 |
| A1136日－12121 | $12.1 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$［HIP 0805 | 2 | R504．RED4 |
| A11368－20021 | 20．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 2 | R506．RS06 |
| A1136B－30921 | $30.9 \mathrm{KDHM} .1 \mathrm{~W} 1 \%$ LHIP D805 | 2 | R505．R605 |
| A11369－120K2 | $1 \mathrm{ZFF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | 5 | ᄃ500． $5501.5502 .5600 .5601 .5602 ~$ |
| A11371－8205 | 日2 OHM 1W 5\％5MD 2512 | 1 | R607 |
| A11427－104K2 | D． 1 UF 50V 1\％［HIP 0805 | 6 | ᄃ505．5506，С605， $5605.5607,5608$ |
| C 9012－3 | OP AMP，QUAD MC33079D | 1 | ப500 |
| 10243日－56DK2 | 55PF 50V 10\％NPD 0805 | 2 | こ504．СЕИ4 |
| 102467－1 | 22UF 25V 20\％RADIAL T／R | 2 | С503． 5603 |
| 102471－2 | HDR．12POS．2．5MM RT ANG KEY | 1 | J501 |
| 102475－1 | 日LOCK．5POS．，TERMINAL | 1 | T日1 |
| 102487－1 | DPDT VERT．SLIDE 12 MM SHAFT | 1 | 5500 |
| 102579－1 | STAND，BROALHED 6－32 $\times .75$ | 2 | HW1．HW2 |
| 10268日－4 | PWB．INPUT LE10日0／CE20日0 | 1 | 1 |
| 102882－1 | 6－32X6．5 SEM PAN HD TORX 日Z | 2 | HW3．HW4 |
| 125365－1 | $1 / 4^{\prime \prime}$ TRS／XLR COMBD PCB VERT | 2 | 」500．J日日も |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  | MAP LDC |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESERIPTION |  |
| 1 | 10268日－4 | PW日．INPUT CE10DD／CE20日D |  |
| 5500 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R |  |
| C50 1 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO}$ D805 T／R | B 2 |
| C502 | A1 1369－120k2 | 12PF 50V 10\％NPO 日805 T／R | E 2 |
| ᄃ503 | 102467－1 | 22UF 25V 20\％RADIAL T／R | B |
| C504 | 10243日－560k2 | 56PF 50V 10\％NPD DB05 | B 2 |
| C585 | A11427－104K2 | 0.1 UF $50 \mathrm{~V} 1 \%$ CHIP 0805 | E 2 |
| C506 | A11427－104K2 | D． $1 \mathrm{LF} 50 \mathrm{~V} 1 \%$ LHIP 0805 | B 2 |
| c600 | A1：369－120k2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805$ T／R | E 2 |
| CED1 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO $0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| C502 | A1 1369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | B 2 |
| ᄃ503 | 102467－1 | 22UF 25V 20\％RADIAL T／R | B 1 |
| C504 | 102438－560k2 | 56PF 50V 10\％NPO 0805 | B 2 |
| ᄃ605 | A11427－104K2 | D． 1 UF 50V 1\％CHIP 0805 | A 2 |
| c606 | A11427－184K2 | 0．1 LF $50 \mathrm{~V} 1 \%$ CHIP 0805 | C 1 |
| C607 | A11427－104K2 | $0.1 \mathrm{LF} 50 \mathrm{~V} 1 \%$ CHIP 0805 |  |
| C60日 | A1 1427－104K2 | $0.1 \mathrm{LF} 50 \mathrm{~V} 1 \%$ EHIP 0日05 |  |
| HW1 | 102579－1 | STAND，GRDALHED $5-32 \times .75$ | A 3 |
| HW2 | 102579－1 | STAND．BROACHED 6－32 $\times .75$ | C 3 |
| HW3 | 102日82－1 | $6-32 \times 0.5$ SEM PAN HD TORX BZ | A 3 |
| HW4 | 102日82－1 | 6－32X0．5 SEM PAN HD TORX BZ | C 3 |
| J500 | 125365－1 | CONN．．1／4＂XLR．PCB VERT | B 2 |
| 」501 | 102471－2 | HDR，12POS．2．5MM RT ANG KEYED |  |
| 」6ロロ | 125365－1 | CONN．1／4＂XLR，PCE VERT． | A 2 |
| R500 | A1 1 36日－1 1021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | ᄃ 2 |
| R501 | A1 1 358－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 日 2 |
| R502 | A1 1368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 日 2 |
| R503 | A1 136日－10021 | 10．KOHM． $1 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | B 2 |
| R504 | A1 136日－12121 | $12.1 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ CHIP 日日05 | B 2 |
| R505 | A1136日－30921 | $30.9 \mathrm{KOHM} \mathrm{} 1 \mathrm{~W} 1 \$.$% CHIP Ø日05$ | B 2 |
| R506 | A1136日－20021 | 20．KOHM． $1 \mathrm{~W} 1 \%$ CHIP D日05 | B 2 |
| R500 | A1136日－10621 | 18．KOHM ． $1 \mathrm{~W} 1 \%$ EHIP D805 | A 2 |
| R691 | A113EB－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | A 2 |
| R602 | A1136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | B 2 |
| R603 | A1 1358－10021 | 1日．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 8805 | 日 2 |
| R60 4 | A1 1358－12121 | 12.1 KOHM ． $1 \mathrm{~W} 1 \%$ EHIP DB05 | A 2 |
| R605 | A1 136B－30921 | $30.9 \mathrm{KOHM} .1 \mathrm{~W} 1 \%$ LHIP D805 | A 2 |
| R606 | A11368－20021 | 20． $\mathrm{KOHM} .1 \mathrm{~W} 1 \%$ CHIP 0805 | B 2 |
| R6ロ7 | A11371－8205 | 82 aHM $1 \mathrm{~W} 5 \%$ SMD 2512 | A 2 |
| 5506 | 1024日7－1 | DPDT VERT，SLIDE 12 MM SHAFT | B 1 |
| T日1 | 102475－1 | BLOCK，5POS．．TERMINAL | A 3 |
| U500 | ［ 901z－3 | OP AMP．QUAD MC33079D | B 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CRDWN INTERNATIONAL INC



## COMPONENT MAP

(COMPONENT SIDE VIEW)


CROWN INTERNATIONAL INC.


| E．C．N． | ZONE | REY． | DESCRIPTIDN |  |  | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | DATE | 日Y | CHK | ME | EE | PE |
|  |  | A | INITIAL RELEASE | 09／03／97 | DWW | TLM |  | PW | TS |
|  |  | 日 | RENAMED HW2S \＆HW2B TO HW1 \＆HW2 R REMOVED R507 \＆ C567．C5B3 I CBO3 WERE C 6978－1．NOTE 2 WAS 102688－1．NDTE 3 WAS 1E2BES－1． | 10／20／97 | TLM | KW |  |  | TS |
|  |  | C |  J501 was 1a2471－1． | 10／20／37 | TLM | KW |  |  | TS |
|  |  | D | NOTE 2 WAS 10268日－3．NOTE 3 WAS 102690－3． <br> A11371－8285 WAS A11371－8201．125365－1 WAS 102474－1， <br> 102438－58DK2 WAS 102483－56日K2，1026日B－4 WAS 1026日8－3． <br> 102471－2 WAS 125426－1．ADDED 1 ¢2珀Z－1． | 11－18－97 | KLW | TL－M |  |  | $\begin{gathered} T S \\ A \end{gathered}$ |
| 98E0084 |  | E | NOTE 3 WAS 1026S0－4． | 62－13－98 | PC | Kw |  |  | $8$ |
|  |  |  |  |  |  |  |  |  |  |

UNLESS OTHERWISE SPECIFIED．THE FINISHED PWA SHALL MEET：
IPC－A－610＿CLASS 2
NOTES：
1．SCHEMATIC DFAWING NLMEEA 102568.
2．PWB PART NUMBER $1026 B G-4$.
3．PWA PART NLMBEF 102690－5．
4．ALL LEADS SHALL BE TAIMMED TO ロ． 093 ＂OR LESS．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
6．THE CROWN PART NUMBER FOR THIS MODULE SHALL BE MARKED ON THE PRINTED CIRCUIT GOARD AND SHALL BE PERMANENT．



PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A1136日－1杖1 | 1日．KOHM ． 1 W 1\％CHIP 0805 | 10 | R500．R501．RS02．RS03．R504 |
|  |  |  | R500．R601．R602．R603．R604 |
| A11368－20021 | 20．KOHM ． $1 \mathrm{~W} 1 \%$ EHIP 0805 | 4 | R505，R506．R605．R506 |
| A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO QB®5 T／R | 6 |  |
| A11371－B205 | 82 OHM 1W 5\％SMD 2512 | 1 | F607 |
| A11427－104K2 | ロ． $1 \mathrm{LF} 50 \mathrm{~V} 1 \%$ LHIP D805 | 6 | С505．С505．С605．С606．С607．С608 |
| C 9012－3 | OP AMP，QUAD ML33079D | 1 | ப50］ |
| 102438－560k2 | $55 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0 D 05 | 2 | C504． 5604 |
| 102467－1 | 22UF 25V 20\％RADIAL T／A | 2 | С503．С50ヨ |
| 102471－2 | HDR，12POS．2．5MM RT ANG KEY | 1 | 」501 |
| 102475－1 | BLOCK．5POS．．TERMINAL | 1 | TB1 |
| 102487－1 | DPDT VERT．SLIDE 12 MM SHAFT | 1 | S500 |
| 102579－1 | STAND．日RDACHED 6－32 $\times .75$ | 2 | HW1．HW2 |
| 102688－4 | PWE，INPUT LE1000／CE2000 | 1 | 1 |
| 102882－1 | 6－32×0．5 SEM PAN HD TORX BZ | 2 | HW3．HW4 |
| 125365－1 | CONN．． $1 / 4^{\prime \prime} \times$ XLR，PEB VERT | 2 | J500．J600 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  | －－ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

CROWN INTERNATIONAL INC．
 171 B west mIShawaka hoad elkhart．indiana 65517 Phone 1219：294－8008


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| FEF DES | C．P．N． | DESCRIPTION | MAP LOC |
| 1 | 102688－4 | PWB．INPUT CE1000／LE2000 |  |
| C500 | A 11369 －120K2 | 12PF 50V 10\％NPO D日05 T／R | 目 2 |
| C501 | A 11 369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO $0805 \mathrm{~T} / \mathrm{R}$ | 日 2 |
| ᄃ502 | A1 1369－120k2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO $0805 \mathrm{~T} / \mathrm{R}$ | 日 2 |
| С503 | 102467－1 | 22UF $25 \mathrm{~V} 20 \%$ RADIAL T／R | 日 1 |
| ᄃ504 | 10243日－560k2 | $56 P F 50 \mathrm{~V} 10 \%$ NPO D日も5 | B 2 |
| ᄃ505 | A 1 1 427－104K2 | Q．1UF 50V 1\％CHIP 8805 | 82 |
| ［506 | A11427－104K2 | D． $1 \mathrm{LF} 50 \mathrm{~V} 1 \%$ LHIP 0805 | B 2 |
| c600 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | B 2 |
| C601 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| C602 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | B 2 |
| C603 | 102467－1 | 22UF 25V 20\％RADIAL T／R | B 1 |
| ᄃ604 | 102438－550k2 | 5EPF 50V 10\％NPO 0日05 | B 2 |
| C605 | A11427－104K2 | Q． 1 LJF 50V $1 \%$ CHIP 0805 | A 2 |
| C606 | A11427－184K2 | 0.1 UF 50V $1 \%$ CHIP 0805 | C 1 |
| С607 | A11427－104K2 | 0.1 LF $50 \mathrm{~V} 1 \%$ CHIP 0805 | C 1 |
| СБロВ | A11427－104K2 | 0.1 UF 50V 1\％CHIP 0日05 | A 1 |
| HW1 | 102575－1 | STAND，EROACHED 6－32 $\times .75$ | A 3 |
| HW2 | 102579－1 | STAND，EROACHED $6-32 \times .75$ | ᄃ 3 |
| HW3 | 102882－1 | $6-32 \times 0.5$ SEM PAN HD TORX BZ | A 3 |
| HW4 | 102882－1 | $6-32 \times 0.5$ SEM PAN HD TORX BZ | C 3 |
| J500 | 125365－1 | 1／4＂TRS／XLR COMBO PCB VERT | B 2 |
| 」501 | 102471－2 | HDR，12POS．2．5MM RT ANG KEYED | A 1 |
| J600 | 125365－1 | 1／4＇TRS／XLR COMBD PCB VERT | A 2 |
| F500 | A 1 136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | C 2 |
| R501 | A1136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ LHIP 0日05 | B 2 |
| F502 | A 1 136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$［HIP 0日05 | B 2 |
| R503 | A 1 1368－10021 | 1】．KOHM ． $1 \mathrm{~W} 1 \%$ LHIP 0805 | B 2 |
| R504 | A1136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | B 2 |
| R505 | A1136日－20021 | 20．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 日 2 |
| R50］ | A11368－20021 | 20．KDHM ． $1 \mathrm{~W} 1 \%$ LHIP ロ8日5 | 日 2 |
| R600 | A11368－10021 | 10．KOHM． $1 \mathrm{~W} 1 \%$ CHIP 0805 | A 2 |
| P601 | A11358－18021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$［HIP 0805 | A 2 |
| R602 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \% \mathrm{CHIP}$ D日®5 | B 2 |
| R603 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ EHIP 2805 | B 2 |
| R604 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 日 2 |
| R605 | A11368－20021 | 20．KOHM ． $1 \mathrm{~W}: \%$ CHIP 0805 | A 2 |
| REQ6 | A11368－20021 | 20．KOHM ． $1 \mathrm{~W} 1 \%$ EHIP 0805 | B 2 |
| F607 | A11371－8205 | 82 GHM 1W 5\％5MD 2512 | A 2 |
| 5500 | 102487－1 | DPDT VERT．SLIDE 12 MM SHAFT |  |
| T日1 | 102475－1 | BLOCK．5POS．TERMINAL | A 3 |
| US0ด | C 9012－3 | OP AMP，QUAD MC33079D | B 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |




$$
\frac{\text { FIGURE } 1}{\text { SCALE } 1: 1}
$$

## COMPONENT MAP <br> (COMPONENT SIDE VIEW)



CROWN INTERNATIDNAL INC.



UNLESS OTHERWISE SPECIFIED. THE FINISHED PWA SHALL MEET: IPC-A-61日_ CLASS 2

NOTES:

1. SCHEMATIC DRAWING NUMEER 227014.
2. PWB PART NUMBER 127004-1.
3. ALL LEADS SHALL EE TRIMMED TO D. $833^{\circ}$ OR LESS.
4. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
5. SWAGE FIT HWY \& HWZ INTO PCB.


INACTIVE
For Reference Use Only Dicument Has Been Replaced with a Newer Version

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PWA, CE STANDARD INPUT ${ }^{\text {T }}$ |  |  |  |  |  |  | $\begin{array}{r} \hline \text { TOL. UNLESS SPECIFIED } \\ x . x x= \pm 0.020 \\ x . x X X= \pm 0.010 \\ \text { DRILLS }= \pm 0.003 \\ \hline \end{array}$ |  |
|  | DRAWN | $J A W$ | 12/92/98 | APPROVED EY: |  |  | DO NOT SCALE PRINT |  |  |
|  | CHECKED | TLM | 12/04/98 | ME |  |  | SUPERSEDES |  |  |
|  | SCALE | NONE |  | EE |  |  | E.C.N. |  |  |
| THESE DRAWINGS AND SPECIFICATION5 ARE THE PROPERTY OF CROWN INTEANATIONAL. INC AND SHALL NOT BE REPGODUCED. COPIED, OR USED AS THE GASIS FOA THE MANLFACTUAE OR SALE of apparatus of devices without permission. | NEXT ASSEMELY |  |  |  |  |  | DWE. NO. SMEET 1 OF 4$126883-2$ |  |  |

PARTS LIST

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C. P.N. | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A1138B-10021 | 10. KOHM . $1 \mathrm{~W} 1 \%$ CHIP 0805 | 12 | RS00.R501.R502.R503.R504, |
|  |  |  | R506. R600, R601, R602, R603. |
|  |  |  | R604, R606 |
| A1 1369-12062 | 12PF 50V 10\% NPO 0805 T/R | 5 | C500, $5501,5502,5600,5601, ~ c 602 ~$ |
| A11371-2A71 | 2.7 OHM $0.10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 3 | C60日, R605. R609 |
| A11371-8205 | a2 OHM 1W $5 \%$ SMD 2512 | 1 | R607 |
| A1 1427-184K2 | D. 1 UF 50V $1 \%$ CHIP 0805 | 3 | C505, 5506,5605 |
| C 9012-3 | OP AMP, QUAD MC33079D | 1 | ப500 |
| 102438-560K2 | 56PF 50V 10\% NPD 0805 | 2 | C504, 5604 |
| 102467-1 | 22UF 25V 20\% RADIAL T/R | 2 | C503.c603 |
| 102471-2 | HDR, 12POS. 2.5MM RT ANG KEY | 1 | J502 |
| 102475-1 | BLOCK, 5POS., TERMINAL | 1 | T81 |
| 102579-1 | STAND. 日ROACHED 6-32 $\times .75$ | 2 | HW1, HW2 |
| 103415-70608 | SCREW, 6-32X. 5 TORX PNHD SEM | 2 | HW3. HW4 |
| 126929-1 | 1/4" TRS/XLR COMEO PCE VERT | 2 | J500. J®00 |
| 127004-1 | PWB, CE INPUT | 1 | 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document Has Been Replaced
with a Newer Version


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
|  | 127004－1 | PWA，CE INPUT |  |
| c500 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | 日 2 |
| C581 | A1 1 369－120k2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | B 2 |
| ᄃ502 | A11369－120k2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0日05 T／R | 旦 2 |
| ᄃ503 | 102487－1 | 22LF $25 \mathrm{~V} 20 \%$ RADIAL $T / R$ | B 1 |
| C504 | 10243日－560k2 | 56PF 50V 10\％NPO 0a05 | B 2 |
| C505 | A11427－104K2 | $0.1 \mathrm{LF} 50 \mathrm{~V} 1 \% \mathrm{CHIP} 0 \mathrm{OD}$ | 日 2 |
| C506 | A1 1427－104K2 | 0．1LF 50V 1\％CHIP 0日®5 | 日 2 |
| c509 |  | OPEN |  |
| C60® | A1 1369－120k2 | 12PF 50V 10\％NPG 0805 T／R | B 2 |
| C60 1 | A11369－120K2 | 12PF 50V 10\％NPO ص805 T／R | A 2 |
| С602 | A）1369－120K2 | 12PF 50V 10\％NPO D日U5 T／R | 82 |
| c603 | 102457－1 | 22UF $25 \mathrm{~V} 20 \%$ RADIAL $T / R$ | B 1 |
| C504 | 102438－560k2 | 56PF 50V 10\％NPO 0日05 | 日 2 |
| L605 | A11427－184K2 | B． 1 UF 50V $1 \%$ CHIP 0805 | A 2 |
| C60日 | A11371－2A71 | 2.7 OHM $0.10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | A 1 |
| C609 |  | OPEN |  |
| HW1 | 102579－1 | STAND．EROACHED $6-32 \times .75$ | A 3 |
| HW2 | 102579－1 | STAND．BROACHED $6-32 \times .75$ | C 3 |
| HW3 | 103415－70608 | SCREW．6－32x． 5 TORX PNHD SEM | A 3 |
| HW4 | 103415－70688 | SCREW． $6-32 \times .5$ TORX PNHD SEM | C 3 |
| J500 | 126929－1 | CONN．． $1 / 4{ }^{\prime \prime} \times$ LR，PCB VERT | E 2 |
| 」502 | 102471－2 | HDA，12POS．2．5MM PT ANG KEYED | A 1 |
| J600 | 126329－1 | LONN．． $1 / 4^{\prime \prime} \times$ KR．PCB VERT | A 2 |
| F500 | A11358－10021 | 10．KOHM ．IW 1\％CHIP 0BD5 | C 2 |
| R501 | A113日日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0BE5 | B 2 |
| R502 | A1136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | Q 2 |
| R503 | A1136日－18021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ LHIP 0805 | E 2 |
| R504 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0B05 | 82 |
| R506 | A11358－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日B5 | 82 |
| R508 |  | OPEN |  |
| R600 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 日B®5 | A 2 |
| RED 1 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | A 2 |
| R602 | A11368－10021 | 10．KDHM ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 日 2 |
| R603 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \% \mathrm{CHIP}$ D日B5 | 82 |
| R604 | A1136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP Q日85 | A 2 |
| R605 | A11371－2A71 | 2．7 OHM 0．10W 5\％EHIP | C 1 |
| R606 | A1136B－10021 | 10．KOHM ，1W 1\％CHIP D日05 | A 2 |
| R607 | A11371－8205 | 82 OHM 1W 5\％SMD 2512 | A 2 |
| R608 |  | DPEN |  |
| R609 | A11371－2R71 | 2.7 OHM 0．10W 5\％CHIP | C 1 |
| T日i | 102475－1 | BLOCK，5POS．．TERMINAL | A 3 |
| ப50］ | ᄃ 9012－3 | OP AMP，QUAD ML33079D | 日 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
Document Has Been Replaced with a Newer Version



## INACTIVE

For Reference Use Only Document Has Been Replaced with a Newer Version


| E．C．N． | ZONE | $\begin{array}{\|c} \text { REV. } \\ \hline A \end{array}$ | DESCRIPTION |  |  | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | DATE | BY | CHK | C든 | EE | PE |
|  |  |  | INITIAL RELEASE FOR PRODUCTION（LEVEL I） | 12／02／98 | JAW | TLM |  |  | TS |
| 9850826 |  | 8 | ［60日 WAS A11427－104K2．RE05．R609 WERE A11371－1504． HW3．HW4 WERE 1日2日日2－1．ADDED NOTE 5. | $12 / 02 / 98$ | JAw | TLM |  |  | TS |
| 99E0042 |  | ［ | C60日．F605．R609 WERE A11371－2R71．HW3，HW4 WERE 103415－706日日． | 02／01／99 | JAW | Ku | $\mathrm{CO}$ |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

UNLESS OTHERWISE SPECIFIED．THE FINISHED PWA SHALL MEET： IPC－A－E1日＿CLASS 2

NOTES：
1．SCHEMATIC DRAWING NLIMEER 127014.
2．PWE PART NUMBER 127004－1．
3．ALL LEADS SHALL 日E TRIMMED TO D． $093^{\prime \prime}$ OR LESS．
4．POSITION LOMPONENTS AS SHOWN ON COMPONENT MAP．
5．SWAGE FIT HW1 \＆HW2 INTO PCB．


INACTIVE
For Reference Use Only

| PAINTS | CRDWN <br> 1718 WEST MISHAWAKA RDAD |  |  | INTERNATIDNAL <br> ELKHART，INDIANA 48517 PHONE |  |  |  |  | INC. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
| K | PWA，CE STANDARD INPU |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | drawn | JAW | 12／02／98 | approved by |  |  | do not scale pain |  |  |  |
|  | Checked | TLM | 12／84／98 | ME |  |  | SUPERSEDES |  |  |  |
|  | scale |  | NONE | EE |  |  | E．C．N． |  |  |  |
|  | PROS |  | MD390D9 | PE | Ts | 12／84 |  |  |  |  |
|  | NEXT ASSEMELY |  |  |  |  |  | 126883－2 |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFEFENCE DESIGNATION |
| A11368－10021 | 10．KOHM ． 1 W 1\％CHIP 0805 | 12 | R500，R501，R502，R503，R504． |
|  |  |  | R50E，RED日，RED1，RED2．RE03． |
|  |  |  | 月604．R606 |
| A11369－120x2 | 12PF 50V 10\％NPO 0805 T／R | 6 | C500，C501，C502，C600，C601．C602 |
| A11371－1501 | 15 OHM 0．10W 5\％CHIP | 3 | C60日，R605．R609 |
| A11371－8205 | 82 OHM 1W 5\％5MD 2512 | 1 | R607 |
| A11427－1日4K2 | 0．1 UF 50V 1\％［HIP 0805 | 3 | C505，5506， 5605 |
| C 9012－3 | OP AMP，QUAD MC33079D | 1 | U500 |
| 102438－560K2 | 5EPF 50V 10\％NPO 0日05 | 2 | C504，C604 |
| 102467－1 | 22UF 25V 20\％RADIAL T／R | 2 | C503， 5603 |
| 102471－2 | HDR，12POS．2．5MM RT ANG KEY | 1 | J502 |
| 102475－1 | ELDCK．5POS．．TERMINAL | 1 | T81 |
| 102579－1 | STAND．EROACHED $5-32 \times .75$ | 2 | HW1．HW2 |
| 103435－7060日 | SCREW，6－32X．5 TORX PNHD SEM | 2 | HW3．HW4 |
| 126929－1 | 1／4＂TRS／XLR COMBD PCE VERT | 2 | J500．J600 |
| 127004－1 | PWB．CE INPUT | 1 | 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| 1 | 127004－1 | PWB．CE INPUT |  |
| C500 | A11369－120K2 | 12PF 50V 10\％NPQ 0805 T／R |  |
| C501 | A11369－120K2 | 12 PF 50 V 10\％NPO $0805 \mathrm{~T} / \mathrm{A}$ | Q 2 |
| C502 | A11359－120K2 | 12PF 50V 10\％NPO 0日05 T／R | 日 2 |
| C503 | 102467－1 | 22UF 25V 20\％RADIAL T／R |  |
| C504 | 102438－560K2 | 56PF 50V 10\％NPO 0805 | 日 2 |
| C505 | A11427－104K2 | 0.1 LF 50V 1\％CHIP 0805 | 日 2 |
| C506 | A11427－104K2 | 0．1UF 58V $1 \%$ LHIP 0805 | 日 2 |
| C509 |  | OPEN |  |
| C600 | A11369－120K2 | 12PF 50V 10\％NPO 0905 T／A | B 2 |
| c601 | A11359－120K2 | 12PF 50V 10\％NPQ 日日05 T／A | A 2 |
| C602 | A11369－1 20K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805$ T／R | B 2 |
| C603 | 102467－1 | 22UF 25V 20\％RADIAL．T／R |  |
| C604 | 10243日－550K2 | 58PF 50V 10\％NPO 0日05 | B 2 |
| C605 | A11427－104K2 | 0．1UF 50V $1 \%$ CHIP 0日05 | A 2 |
| C608 | A11371－1581 | 15 OHM D． $10 \mathrm{~W} 5 \%$ CHIP | A 1 |
| C609 |  | OPEN |  |
| HW1 | 102579－1 | STAND．BRDACHED 6－32 $\times .75$ | A 3 |
| HW2 | 102579－1 | STAND．BRDACHED 6－32 $\times .75$ | C 3 |
| HW3 | 103435－70608 | SCREW． $6-32 \times .5$ TORX PNHD SEM | A 3 |
| HW4 | 103435－7060日 | SCREW， $6-32 \times .5$ TORX PNHD SEM | C 3 |
| J500 | 126929－1 | CONN．．1／4＂XLR，PCB VERT． |  |
| J502 | 102471－2 | HDR，12POS．2．5MM RT ANG KEYED |  |
| J600 | 128929－1 | CONN．． $1 / 4^{\prime \prime} \times$ KRR．PCE VERT． | A 2 |
| R500 | A113E日－10021 | 10．KOHM ．I W $1 \%$ CHIP 0日日S | C 2 |
| R50 1 | A1136日－10621 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | 日 2 |
| R502 | A1136日－10021 | 10．KOHM ．IW 1\％CHIP 0日05 | 日 2 |
| R503 | A1136日－10021 | 10．KOHM ． 1 W \％\％CHIP 0805 | 日 2 |
| R504 | A11368－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | 日 2 |
| R506 | A）136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | B 2 |
| R50日 |  | OPEN |  |
| RE00 | A11368－10021 | 10．KOHM ． 1 W 1\％CHIP 0日05 | A 2 |
| R601 | A1136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | A 2 |
| R602 | A1136日－10021 | 10．KOHM ． 1 W 1\％CHIP 0日05 | B 2 |
| R603 | A1136日－10021 | 10．KOHM ．IW 1\％CHIP 0BQS | B 2 |
| R604 | A1136日－10021 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP D日05 | A 2 |
| R605 | A11371－1501 | 15 OHM D．10W 5\％CHIP | C 1 |
| R606 | A1136日－10621 | 10．KOHM ． $1 \mathrm{~W} 1 \%$ CHIP 0日®5 | A 2 |
| R607 | A11371－8205 | 日2 OHM 1W 5\％SMD 2512 | A 2 |
| R60日 |  | OPEN |  |
| RE09 | A11371－1501 | 15 OHM 0．10W 5\％CHIP |  |
| T日1 | 102475－1 | 日LOCK，5POS．．TERMINAL | A 3 |
| L500 | ᄃ 9012－3 | OP AMP．QLAD MC33079D | 旦 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


## COMPONENT MAP <br> (COMPONENT SIDE VIEW)



## INACTIVE

For Reference Use Only

APFARASUS FOA DEVE MMMUFACTHAE OA SALE

| E.C. | ZONE | REV. | DESCRIPTION |  |  |  |  | DATE | BY | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | CHK |  | CM | EE | PE, |
|  |  | A | INITIA | RELEASE | TO | PROD |  |  | 02-23-99 | 」AW | $1 / 4$ |  |  | 78 |

NOTES:

1. SLHEMATIC DRAWING NUMBER 102141.
2. PWE PART NUMBER $102138-9$.
3. THE PWA Shall meet the ipc-a-bid_ class 2 standards.
4. ALL LEADS Shall be thimmed to 0.093" DR less.
5. POSITION COMPONENTS AS SHOWN ON TOMPDNENT MAP.
6. components that have (*) after their map location

ARE MOUNTED ON THE BOTTOM SIDE OF THE PRINTED CIRCUIT BOARD.
7. REMOVE SOLDER DR PREVENT SOLDER FRDM ACCLMULATING IN HOLES.
b. the vent hole on top of the relays kibe and kzod must be opened after the cleaning process. by either femoving the sealing tape OR CUTTING OFF THE CIRCULAR TAB WITH AN "EXACTO" KNIFE OR SIMULAR cutting todl. warning. this step must be done after the cleaning process ndt beforeil! water or cleaning solvents entering the melay vent hole will damage the relay.
9. CONNECT THE WIRES that COME FROM 0123 and 0223

TO WP4 AND WP5 RESPECTIVELY.
10. The pwa part number for this module shall be marked on the p.c. goard and shall ge permanent. use a label to cover up the old pwa numeers and affix the new pwa number.
1t. INSTALLATION OF UIEB AND U2eg is as follows:
11A. REMOVE middLE SLEEVE FROM TRANSISTOR H42902-9
11B. bend transistor at ge deg. flat side down
11C. PLACE TRANSIStDR into the pwe as shown on THE COMPONENT MAP DETAIL B.
11D. mix output epoxy and accelerator together. afply the mixture to the transistor and heatsink. the mixture must fill the heatsink hole and the leads of the device, especially the center lead. (nOTE: NO VISIBLE aIf GAPS aRDUND THE TRANSISTOA and the thansistor leads cannot touch the heatsink,
ile. hold the transistor against the heatsink until epoxy sets-lip
12. TORQUE E-32 meX NuTS (EPN A11056-1) AS FDLLOWS:

12A. PAE-WAVE TOROUE DF 4-E INEH LBS.
128. POST-WAVE AND WhEN ASSEmBLY has CODLED DOWN TO HANDLING temperature torgue of 13-15 inch lbs.
13. INSTALL J3 CONNECTOR AS SHDWN ON COMPONENT MAP
14. INSTALL R32X AS FOLLOWS:
bend the resistor leads at ge degrees to the body.
place rozx with the element away fhom ci.
SOLDER F32X LEADS TO R32 AND R34 PADS SMD STYLE
SEE DETAIL C for clarity.
15. install s2 with the switch bat fating away faom aear

EDGE OF THE BOARD. SEE SHEET 19 COMPDNENT MAP FOA
CLARITY.


INACTIVE
For Reference Use Only

| Pmints to |  | CROWN <br> 1710 mEST MISHAWAKA MOAD |  | NTERNATIUNAL INC. <br> ELKHAAT, INDIANA $4551^{\circ}$ <br> PHONE <br> (219) 234-8006 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K |  | SERF PWA, CE1K 1DRAMNJAWJ |  | 02139-6 \& -8 MAIN |  |  |  | TOL. UNLESS SPECIFIED <br> $x . x x= \pm 0.028$ <br> X.XXX - $\pm 0.818$ <br> DRILLS - $\pm$ g.003 |  |
|  |  |  |  | APPROVED BY: |  |  | do not scale print |  |  |
|  |  | CHECKED | VM113-4-99 | ME | 88 | 23-69-94 | SUPERSEDES |  |  |
|  |  | scale | NONE | EE |  |  | E. C. |  |  |
|  |  | PRO」 \# | MD390D0 |  | CR | 3-9-99 | DWG. NO. SHEET 1 OF 20$127321-1$ |  | (A) |
|  |  | FILENAME: $127321-\mathrm{t}$-A. PCB |  | NEXT ASM: |  |  |  |  |  |

PARTS LIST

| C．P．N | DESEAIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | 8 | HW9，HW1 ${ }^{\text {，HW }}$ ，HW1 2，HW1 3．HW1 4. |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K D． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A10265－2R74 | 2.7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104JD | Ø． 1 MF 250V 5\％MTL POLY | 2 | C118．c218 |
| A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | 日 | HW17，HW18，HW19，HW20，HW21． |
|  |  |  | HW22．HW2 ．HW2 4 |
| A1135B－10011 | 1K 0．10W 1\％CHIP 0805 | 8 | R101．R106，R110．R201，R205． |
|  |  |  | R210，R316．R416 |
| A11368－10021 | $10 \mathrm{CK} 1 / 1 \mathrm{DW} 1 \%$ CHIP 0805 | 23 | RS，R104．R107，R18日．R111．R121． |
|  |  |  | R176．R177．R1日2，R185．R193． |
|  |  |  | R196．R204．R211，R221．R276． |
|  |  |  | R277，R2日2．R2日5，R293，R296， |
|  |  |  | R313．R413 |
|  |  |  |  |
| A11368－10031 | 100K 0．1W 1\％CHIP 0805 | 15 | R25，R3日．R31．R123．R125．R179． |
|  |  |  | R183，R186，R189，R223，R225． |
|  |  |  | R279，R283．R2日S．R289 |
| A1136B－12121 | 12.1 K OHM D．10W 1\％CHIP 0日05 | 1 | R2 1 |
| A1136日－13703 | 137 OHM 0．25W 1\％CHIP | 2 | R139，R239 |
| A1136B－15002 | 150 OHM 0．125W 1\％CHIP | 2 | R137，R237 |
| A1136日－15831 | 15日K ロ．10W 1\％CHIP 0日05 | 8 | R122，R124．R187，R18日，R222． |
|  |  |  | R224，R287．R2日8 |
| A1136日－19122 | 19．1K 0．125W 1\％CHIP 1206 | 2 | R109，R209 |
| A1136日－20021 | 20K 0．10W 1\％CHIP 0日05 | 1 | R27 |
| A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10，R1日4，R2日4 |
| A1136日－22601 | 226 OHM 日．10W 1\％CHIP 0日05 | 4 | R116．R191．R215．R291 |
| A1136日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | 6 | R22．R23．R102．R180．R202．R280 |
| A1136日－49901 | 499 OHM D．10W 1\％CHIP 0日05 | 2 | R103．R203 |
| A1136日－49921 | 49．9K 0．1W $1 \%$ CHIP 0805 | 2 | R126，R226 |
| A113E日－51191 | 5.11 K OHM 0．10W 1\％CHIP 0日0S | 8 | R113．R175，R197．R213，R275． |
|  |  |  | R297，R315．R415 |
| A1136日－57E21 | 57．6K 0．10W 1\％CHIP 0日05 | 4 | R20．R24．R190．R290 |
| A1136日－50432 | 604K DHM 0．125W $1 \%$ CHIP 1206 | 4 | R174，R192．R274．R292 |
| A1136B－68111 | 6.81 K OHM D． $10 \mathrm{~W} 1 \%$ LHIP 0日® 5 | 2 | R11日，R21日 |
| A1136日－68121 | 6日． 1 K O．10W 1\％LHIP | 3 | R12，R115，R215 |
| A1136日－69日11 | 6．9日K OHM 0．10W $1 \%$ EHIP 0805 | 1 | R5 |
| A1136B－71511 | 7．15K 1／10W 1\％LHIP 0日05 | 1 | R1日 |
| A1136日－82511 | 8．25K 0．1W 1\％CHIP 0805 | 3 | R17．R114，R214 |
| A1136日－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ EHIP 0805 | 4 | R12日．R17日，R220．R27日 |
| A1136日－93111 | 9．31K 0．1W 1\％CHIP BB05 | 1 | R6 |
| A11369－102」2 |  | 2 | C134，С234 |
| A11369－270K2 | 27PF 50V 10\％NPO D日B5 T／R | 2 | C107． 2087 |
| A11369－330J2 | 33PF 50V 5\％NPO MLC 0805 | 2 | ᄃ142，C242 |
| A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | 4 | C110．C141．c210．C241 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATIDN |
| :---: | :---: | :---: | :---: |
| A11371－0RD2 | $0 . \square$ OHM JUMPER CHIP 1 20E | 4 | R199，R299，R323，R423 |
| A11371－0R21 | 0.2 OHM D． $10 \mathrm{~W} 5 \%$ CHIP E日Q | 3 | R14，R15．R33 |
| A11371－1011 | 100 OHM 0.10 W 5\％CHIP 0B05 | 3 | R13，R147，R247 |
| A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | 2 | R322．R422 |
| A11371－1022 | $1 \mathrm{~K} \mathrm{~B} .125 \mathrm{~W} 5 \%$ LHIP 1206 | 1 | R8 |
| A11371－1213 | 120 OHM D．25W 5\％LHIP | 6 | R138，R144，R145，R23日，R244，R245 |
| A11371－1331 | 13K OHM ロ．10W 5\％CHIP D日⿹勹 | 4 | R146．R151．R24E．R251 |
| A11371－1501 | 15 OHM 0．10W 5\％LHIP | 2 | R160，R260 |
| A11371－1日11 | 18 O OHM 0．10W 5\％CHIP | 4 | R14日，R153．R248．R263 |
| A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | 2 | R132．R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | F2 |
|  |  |  |  |
| A11371－3313 | 330 OHM D． 25 W 5\％CHIP | 2 | R4．R19 |
| A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 6 | R115．R140，R143，R219，R240．R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP 0日05 | 7 | R3，R11，R26，R117．R217．R314． |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16，R135，R235 |
| A11371－3934 | 39 K OHM 0．50W 5\％EHIP 1210 | 4 | R317．R31日．R417．R41日 |
| A11371－4701 | 47 OHM 日．10W 5\％LHIP | 2 | R162．R262 |
|  |  |  |  |
| A11371－5R63 | 5． $0.25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 4 | R150．R165．R250．R265 |
| A11371－5R65 | 5.5 DHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6日14 | EED DHM $0.50 W 5 \%$ CHIP | 6 | R10S．R12B．R1日1，R205．R22日．R2日1 |
| A11371－6日21 | 6．日K D．10W 5\％CHIP 0日05 | 2 | R127，R227 |
| A11371－7511 | 750 DHM D．10W 5\％LHIP | 3 | R2日．R133．R233 |
| A11371－日201 | 日2 DHM 日．10W 5\％LHIP | 4 | R136，R194，R236，R294 |
|  |  |  |  |
| A11371－8211 | 日20 DHM 0．10W 5\％CHIP | 6 | R129，R141，R195，R229，R241，R295 |
| A1137B－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－C050U | WIRE， 16 ELU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 |  | 4 | C109，С111，c209，c211 |
| A11427－103K5 | D． $1.1 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1205$ | 2 | C143，C243 |
| A11427－104K2 | 0.1 MF 50V 10\％0B05 | 30 | C2．C6，С7，C12，С24．C25．c2B．C29， |
|  |  |  | ᄃ115，ट122，ᄃ125，ᄃ127，ᄃ128， |
|  |  |  | ［129，ᄃ130，ᄃ131，［132，С133， |
|  |  |  | С139，С215．C222．c226，C227． |
|  |  |  | C22日，c229，C230，［231，C232． |
|  |  |  | ᄃ233， 2239 |
| A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ LHIP | 2 | C112．C212 |
| A11427－272K2 | 270ロPF 50V 10\％CHIP 0805 | 2 | C117．С217 |
| A11427－472K2 | 470日PF 50V 10\％×7R 日日05 | 4 | C116，ᄃ119，C216，C219 |
| A12125－3140K | WIRE， 22 WHT $3 / 15 \times 14 \times$ FAST | 1 | WPE |
| C 2B51－1 | 1 N40日4 SILICON RECT． | 7 | D1，D2，D3，D4，D6，D7，D10 |
| C 3510－2 | CHDKE，470UH 10\％AXIAL | 4 | L10日，L101，L200，L201 |
| C 3549－b | DIODE ZENER，10V． 1 N5240B | 1 | DB |
| ［ 3679－5 | 3コLF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35V VERT | 2 | ［4，C5 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

|  <br>  |
| :---: |
|  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESERIPTION | QTY | REFERENCE DESIGNATION |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| ᄃ 5096－0 | NEG． 15 VOLT REG． | 1 | $\sqcup 2$ |
| C 5382－6 | 2.2 MF 50V VERT | 1 | C27 |
| C 6802－0 | 47 MF 50 V AX CERM | 2 | C102．c202 |
| C 7091－9 | 0.33 MF 50 V LHIP 1206 | 3 | C22．c140，c240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE 5W． | 1 | 52 |
| C 744日－1 | MMET3904 CHIP NPN | 6 | 0100．0101．0129．0200．0201．0229 |
| C 8262－5 | MC3307日D DUAL LD NOISE OP AM | 4 | ப4，ப5，ப105． 1205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9012－3 | ML33®79D QUAD LO NDISE OP AM | 2 | ப101，ப201 |
| C 903日－8 | COMPARATOR，QUAD LM339D 50－1 | 4 |  |
| C 9157－6 | 100UF 16V 20\％NP ELEC RAD T／ | 2 | c123．c223 |
| C 9252－5 | 2N3904 40 V NPN TRANSISTOR | 2 | 0104．0204 |
| C 9293－0 | DIODE，iN914／1N414日 SOT－23 5 | 56 | D9，D13．D101．D102．D103．D104． |
|  |  |  | D105，D106．D107，D108．D105． |
|  |  |  | D1：D．D111．D112．D113．D116． |
|  |  |  | D117．D11日．D119．D120，D121． |
|  |  |  | D122．D123．D124．D125，D126． |
|  |  |  | D127，D12日．D129．D138．D201． |
|  |  |  | D202，D203，D204，D205，D206， |
|  |  |  | D207．D20日．D209．D210．D211． |
|  |  |  | D212．D213．D216．D217．D218． |
|  |  |  | D221，D222，D223，D224，D225， |
|  |  |  | D226．D227．D228．D229．D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP3日，TP39 |
| C 991日－1 | TO220 VERT CLIP－ON HEATSINK | 2 | U1×． $12 \times$ |
| C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－ | 6 | 0102，0109．0111．0202．0209，0211 |
| C．18196－1 | 2．2MF 50V 20\％RAD T／R | 4 | C121．C124．C221．c224 |
| C1020日－4 | 100 MF 25 V 20\％VERT ELEC | 2 | C105．C205 |
| C10422－1 | DIODE，3A 400V IN5404 AXIAL | 4 | D114．D115．D214．D215 |
| C18613－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134．R234 |
| D 8917－3 | 8200UF 110 VDC ELECTROLYTIC | 2 | ᄃ20，C21 |
| H42902－9 | ASM．THERMAL SENSE | 2 | ப106．ப206 |
|  |  |  |  |
| 101016－1 | LBL，日ARCODE， | 1 | 2 |
| 101031－1 | 250 FASTON，ALTO INSERTA日LE | 3 | WP 4，WP5，WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK，ER4 COND MODLLAR R／A | 1 | J5 |
| 102138－9 | PWE．CE1080／CE2B00 MAIN／INPU | 1 | 1 |
| 10243日－101K2 | 100PF 200V 10\％NPO 0805 | 5 | C104．C120，C135，C204，C220，C235 |
| 10243日－560k2 | 56PF 200V 10\％NPO 0日85 | 2 | c106．c206 |
| 10243日－820k2 | 日2PF 200V 10\％NPO 0日05 | 4 | ᄃ108．С138，ᄃ208，С238 |
| 102465－1 | $47 \mathrm{UF} 50 \mathrm{~V} 20 \%$ RADIAL $\mathrm{T} / \mathrm{R}$ | 2 | ᄃ101． 201 |
| 102466－1 | 10 LF $250 \mathrm{~V} 20 \%$ RADIAL T／R | 1 | C1 |
| 1024官7－1 | 22MF 25V $20 \%$ RAD T／R | 2 | С103．C203 |
| 10246日－1 | 47UF 10V $20 \% \mathrm{NP}$ RAD T／R | 4 | C113．C114．ᄃ213．C214 |
| 102470－1 | INDULTOR．2．75UH 11 A RADIAL | 2 | Li02．L202 |
|  |  |  |  |
| 182472－3 | HDF．16POS ． 100 CTR SGL ROW | 1 | 13 |

INACTIVE
For Reference Use Only



| PAATS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 102466－1 | 10UF 250V 20\％RADIAL T／R | 」 8 |
| C2 | A11427－104K2 | Q． 1 MF 50V 10\％ర日®5 | F ${ }^{*}$ |
| C3 | 125508－1 | 1BUF SQVDC ELECTROLYTIE SMD | I 8 |
| C4 | C 4477－3 | 470 MF 35V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35V VERT | G 9 |
| C6 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | H 10＊ |
| C7 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | H 9＊ |
| C12 | A11427－104K2 | 0.1 MF 50V 10\％0B05 | I 9＊ |
| C20 | D 8917－3 | 820®UF 110 VDC ELECTROLYTIC | ［ 9 |
| C2 1 | D 8917－3 | 8200UF 118 VDC ELECTROLYTIC | 日 9 |
| C22 | C 7091－9 | 0．33 MF 50V CHIP 1206 | N G＊$^{*}$ |
| ᄃ24 | A11427－184K2 | D． 1 MF 50V 10\％0805 | N －$^{*}$ |
| C25 | A11427－104K2 | 0.1 MF 50V 10\％0805 | 0 9＊ |
| C26 | C 8576－日 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | I 9 |
| C27 | C 5362－6 | 2.2 MF S⿹V VERT | H 10 |
| C28 | A11427－184K2 | 0．1 MF 50V 10\％ 0805 | J 9＊ |
| C29 | A11427－104K2 | D． 1 MF 50V 10\％0805 | I $9^{*}$ |
| C．30 | 12550日－1 | 1 UUF 5QVDC ELECTROLYTIC SMD | 18 |
| С31 | C 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102465－1 | 47UF 50V 20\％RADIAL．T／A | M 9 |
| c102 | C 8 －02－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 20\％RAD T／R | M 9 |
| C104 | 10243日－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0805 | M 9＊ |
| C105 | C1020日－4 | 1 E （ MF 25V 20\％VERT ELEC | L 9 |
| C106 | 10243日－560K2 | 56PF 200V 10\％NPO 0日05 | L． $\mathrm{g}^{*}$ |
| C197 | A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | L 9＊ |
| C108 | 102438－日20K2 | 日2PF 200V 10\％NPO 0日05 | L 10＊ |
| C109 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | H 6＊＊ |
| C110 | A11389－471K2 | 470PF 50V 10\％NPD 0805 T／R | M ${ }^{\text {＊}}$ |
| C111 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0日05 | N 日＊ |
| C112 | A1 1427－123K2 | 0．012 MF 50V 10\％CHIP | － $\mathrm{B}^{*}$ |
| C113 | 10246日－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C114 | 10246日－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C115 | A11427－104K2 | D． 1 MF 50V 10\％ 0805 | N 8＊ |
| C116 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | I 7＊ |
| C118 | A10434－104JD | 0.1 MF 250 V 5 MTL POLY | I 8 |
| C119 | A11427－472K2 | 4700PF 50V 10\％×7A 0005 | I $7^{*}$ |
| C120 | 10243日－181K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0日05 | I 7＊ |
| C121 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \%$ RAD T／R | G 8 |
| C122 | A11427－184K2 | 0．1 MF 50V 10\％0805 | F $8^{*}$ |
| C123 | C 9157－6 | 1 匂F 15V $20 \%$ NP ELEC RAD T／R | F 日 |
| C124 | C10196－1 | 2．2MF 50V 20\％RAD T／R | L 9 |
| C126 | A11427－184K2 | 0．1 MF 50V 10\％0805 | N 10＊ |
| C127 | A11427－104K2 | 0．1 MF S0V 10\％0日05 | N 9＊ |
| C12日 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | M 10＊ |
| C129 | A11427－104K2 | 8． 1 MF 50V 10\％0日05 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| drawn | JAW | 102／23／99 | DWG．NO． |  | SHEET G OF 20 | AEV |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PROJ | MD390D0 |  | $127321-1$ |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C130 | A11427－184K2 | 0． 1 MF 50V 10\％0805 | H $8^{*}$ |
| C．131 | A11427－104K2 | Q． 1 MF 50V 10\％0B05 | H 7＊ |
| C132 | A11427－104K2 | В． 1 MF 50V 10\％ถ日05 | F 7＊ |
| C133 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F 8＊ |
| C134 | A11369－102J2 | $0.0015 F 58 \mathrm{~L}$ \％NPO MLC $0805 \mathrm{~T} /$ | M 7 ＊ |
| C135 | 102438－101K2 | 100PF 200V 10\％NPO E日05 | N7＊ |
| C136 | 103210－1 | 2．2LF 160 V RADIAL $\mathrm{T} / \mathrm{R}$ | I 7 |
| C137 | 103210－1 | 2．2UF 160V RADIAL T／R | I 7 |
| C138 | 102438－820k2 | 82FF 200V 10\％NPO 0805 | M 7＊ |
| C139 | A11427－1勾K2 | D． 1 MF 50V 10\％0885 | $67 *$ |
| C140 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | L 9 |
| C141 | A11369－471K2 | 470PF 50V 10\％NPD 0日05 T／R | N 10 |
| C142 | A11369－330」2 | 33PF 50V 5\％NPO MLC 0日05 | M 10 |
| C143 | A11427－103K5 | 0.01 MF 50 V 5\％$\times$ フR 1206 | M 9＊ |
| E144 | 103191－1 | Q．47LF Z5U $121020 \% 50 \mathrm{~V}$ | G 7＊ |
| C201 | 102465－1 | 47UF 50V $20 \%$ RADIAL T／A | 」 9 |
| C202 | ᄃ 6802－0 | 47 MF 5DV AX CERM | K 9 |
| C203 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/A}$ | $\times 9$ |
| ᄃ204 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | 」 9＊ |
| C205 | C1920日～4 | $10 \square \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC． | 」 9 |
| C206 | 102438－560k2 | 56PF 200V 10\％NPO 0日05 | 」 ＊＊$^{*}$ |
| c207 | A11369－270K2 | 27PF 50V 10\％NPO 0a05 T／R | 」 9＊ |
| C208 | 102438－日20K2 | 日2FF 200V 10\％NPO 0日05 | 」 10 ＊ |
| c209 | A11427－103K2 | D． 01 MF 50 V 10\％CHIP 0日05 | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPQ 日805 T／R | K 7＊ |
| C211 | A11427－103K2 | D．D1MF 50V 18\％CHIP 0日05 | K 7＊ |
| C212 | A11427－123K2 | Q． $\mathrm{Q} 12 \mathrm{MF} 50 \mathrm{~V} 18 \% \mathrm{CHIP}$ | L．日＊ |
| C213 | 102468－1 | 47UF 10V 20\％NP RAD T／R | ¢ 日 |
| C214 | 102468－1 | 47LF 10 V 20\％NP RAD T／R | K 8 |
| C215 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | K $日^{*}$ |
| C216 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | 」 ${ }^{*}$ |
| C217 | A11427－272K2 | 2700 PF 50 V 10\％CHIP 0805 | D $1^{*}$ |
| C218 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 470日PF 50V 10\％X7R 0905 | E 1＊ |
| C220 | 102438－101k2 | 10日PF 200V 10\％NPO 0805 | D $2^{*}$ |
| C221 | C10196－1 | 2．2MF $50 V 20 \% \mathrm{RAD} \mathrm{T/R}$ | E 8 |
| C222 | A11427－104K2 | D． 1 MF 50V 10\％DEDS | E $B^{*}$ |
| C223 | C．9157－6 | $100 \cup F 16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／A | F 9 |
| C224 | C10196－1 | 2．2MF 50V 20\％RAD T／R | 」 9 |
| C226 | A11427－184K2 | 0.1 MF 50V 10\％0805 | K 10＊ |
| C227 | A11427－104K2 | 0.1 MF 50V $10 \%$ 0805 | K 9＊ |
| C22日 | A1 1427－104K2 | D． 1 MF 50V 10\％0日05 | J 10＊ |
| ᄃ229 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | 」 ＊$^{*}$ |
| c230 | A11427－104K2 | 0.1 MF 50V 18\％2805 | E $日^{*}$ |
| C231 | A11427－1®4K2 | D． 1 MF 50V 10\％0805 | E 7＊ |
| C232 | A11427－104K2 | 0.1 MF 58V 10\％B805 | E 7＊ |
| C233 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | D $\mathrm{B}^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C234 | A11369－102」2 | $0.0 Q 1$ UF $50 \mathrm{~V} 5 \% \mathrm{NPO} \mathrm{MLC}$ 0日Q5 T／ | 」 7＊ |
| C235 | 10243日－101k2 | 1 DDPF 20日V 10\％NPO 0805 | 」 2＊ |
| C236 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C237 | 10321日－1 | 2．2LF 1GEV RADIAL T／R | I 1 |
| C23日 | 10243日－820K2 | 日2PF 200V 10\％NPO 0日05 | 」 7＊ |
| C239 | A11427－104K2 | 0．1 MF 50V 10\％0805 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A11369－471 K2 | 470PF 50V 10\％NPO 0日05 T／R | L 10 |
| C242 | A11369－330J2 | 33PF 50V 5\％NPO MLC D805 | $\times 10$ |
| C243 | A11427－103K5 | 0． 11 MF 50 V 5\％×7R 1206 | K $9^{*}$ |
| C244 | 103191－1 | 0．47UF Z5U $121020 \% 50 \mathrm{~V}$ | E 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| D 1 | C 2951－1 | 1 N 4004 SILICON RECT． | G 9 |
| D2 | C 2日51－1 | 1N4004 SILICON RECT． | G 18 |
| D3 | C 2851－1 | 1 N 4004 SILICON RECT． | G 10 |
| D4 | C 2日51－1 | 1 N 4004 SILICON RECT． | G 10 |
| D6 | C 2851－1 | 1 N4004 SILICON RECT． | J 8 |
| D7 | C 2051－1 | 1 N 4004 SILICON RECT | J B |
| D | C 3549－0 | DIODE ZENER，18V， 1 NS240B | 」 8 |
| D9 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | 1 9＊ |
| D10 | C 2日51－1 | 1 N4004 SILICON RECT． | I 10 |
| D13 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | I 9＊ |
| D101 | C 9283－0 | DIODE． 1 N914／1N414E SOT－23 5MT | N 9＊ |
| D102 | C 9283－0 | DIODE，1N914／1N414日 SロT－23 SMT | N 9＊ |
| D103 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | L 9＊ |
| D104 | C 9283－8 | DIODE，1N914／1N414日 SOT－23 SMT | M $9^{*}$ |
| D105 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | L 9＊ |
| D106 | C 9283－0 | DIODE，1N914／1N4148 5DT－23 SMT | N 8＊＊ |
| D107 | C 92日3－0 | DIODE，1NS14／1N414日 SOT－23 5MT | N 8＊ |
| D10日 | C 92日3－0 | DIODE，1NS14／1N4148 SOT－23 SMT | N $8^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


CROWN INTERNATIONAL INC．



## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D228 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | E 7＊ |
| D229 | C 9283－0 | DIODE，1NS14／1N414E SOT－23 5MT | F 6＊ |
| D230 | C 9283－8 | DIODE．1N914／1N4148 SOT－23 SMT | K 9 |
| E1 | 102476－1 | LED，SMT R／A GREEN | I 1 |
| E10］ | 182477－1 | LED，SMT R／A RED | 」 |
| E101 | 102476－1 | LED．SMT R／A GREEN | 」 1 |
| E102 | 102477－1 | LED．SMT R／A RED |  |
| E200 | 102477－1 | LED，SMT R／A RED |  |
| E201 | 102476－1 | LED．SMT R／A GREEN |  |
| E202 | 102477－1 | LED．SMT R／A RED | M 1 |
| H1 1 |  | OPEN |  |
| H14 |  | OPEN | I B |
| H18 |  | OPEN | D 日 |
| HS 1 | 102571－3 | HS ASM，T1 NON－ISOLATED CH1． |  |
| HS2 | 102572－3 | HS ASM，T1 NON－ISOLATED CH2． |  |
| H53 | 102569－3 | HS ASM．T1 ISOLATED CH1． |  |
| HS 4 | 102570－3 | HS ASM．T1 ISOLATED CH2．． |  |
| HW1 | 102E0日－1 | SPACER． $6 \times .187$ LONG ALUMINUM | A 4 |
| HW2 | 10260日－1 | SPACER， $6 \times 187$ LONG ALUMINUM | A 4 |
| HW3 | 102608－1 | SPACER，EX．187 LONG ALUMINUM | A 4 |
| HW4 | 102608－1 | SPACER， $6 \times .187$ LONG ALUMINUM | A 4 |
| HW5 | 10260日－1 | SPACER，EX． 187 LONG ALUMINLM | A 4 |
| HWG | 10260日－1 | SPACER， $6 \times .187$ LONG ALUMINUM | B 4 |
| HW7 | 10260日－1 | SPACER，EX． 187 LONG ALUMINUM | B 4 |
| HW8 | 10260日－1 | SPACER，6X． 187 LONG AL．UMINUM | B 4 |
| HW9 | A10020－7 | $6-32 \times .625$ PCE LAPTIVE STUD | D 5 |
| HWI 0 | A10020－7 | $6-32 \times .825$ PC日 CAPTIVE STUD | 15 |
| HW1 1 | A10日20－7 | E－32 $\times .625$ PCE CAPTIVE STUD | D 2 |
| HWi 2 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 13 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 」 5 |
| HWI 4 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 6 |
| HWi 5 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HWi 6 | A10220－7 | $6-32 \times .625$ PCQ CAPTIVE STUD | N 3 |
| HWI 7 | A11056－1 | 6－32 HEX NUT W／EELLEVILLE | A 4 |
| HWI日 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HWig | A1 105E－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW28 | A11055－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW2 1 | A11056－1 | 6－32 HEX NUT W／EELLEVILLE | A 4 |
| HW22 | A11056－1 | 6－32 HEX NUT W／EELLEVILLE | 日 4 |
| HW23 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 旦 4 |
| HW24 | A11856－1 | E－32 HEX NUT W／日ELLEVILLE | B 4 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 」2 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J3 | 102472－3 | HDR．16POS ． 100 LTR SGL ROW | M B |
| J 4 | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J5 | 101993－1 | 」ACK，6P4 COND MODLLAR R／A |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


CROWN INTERNATIDNAL INC．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| FEF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| J100 | 102473－1 | SPEAKON． 4 POLE PCE HORZ | D 10 |
| f200 | 102473－1 | SPEAKON． 4 POLE PCE HORZ | F 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| K100 | 126317－1 | REL，30A 24 V SPST PCB W／FASTON | G 3 |
| K200 | 12E317－1 | REL，3QA 24 V SPST PCB W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE， 470 LH 10\％AXIAL | N 7 |
| L101 | C 3510－2 | CHOKE， 470 LH 10\％AXIAL | I 7 |
| L102 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | H 8 |
| L200 | C 3510－2 | CHOKE， 478 UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOKE，470UH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR． 2.75 UH 11A RADIAL | I 1 |
| Q1 | 102479－1 | PWR MJD112 NPN DARLINGTON 10®V | H10 |
| 02 | 102479－1 | PWR MJDi12 NPN DARLINGTON 100V | I 10 |
| 93 | 102479－1 | PWR MJD112 NPN DARLINGTON 100 V | I 10 |
| 0100 | C 7448－1 | MMET3904 CHIP NPN | M ${ }^{*}$ |
| Q101 | C 7448－1 | MMET3904 CHIP NPN | M 9＊ |
| 0102 | C 9931－4 | MMBT50日7LT1 PNP $\times 515 T 0 R$ SOT－23 | N 9＊ |
| Q103 | 1024日3－1 | PNP 30ロV 500MA SOT－23 | L 9＊ |
| Q104 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I $\quad 1$ |
| Q105 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | M ${ }^{* *}$ |
| 0107 | 103192－1 | NPN 300V 500MA 50MH2 SOT－223 | M 7 ＊ |
| Q108 | 102481－1 | NPN 25V LOW NOISE SOT－23 | N 日＊ |
| 0109 | C 9931－4 | MMET5097LT1 PNP XSISTOR SOT－23 | N 日＊ |
| Q110 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | N 7＊ |
| Q111 | C 9931－4 | MM日T50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q120 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | I 7＊ |
| Q129 | C 7448－1 | MM自3904 CHIP NPN | G 3＊ |
| 0131 | 125106－1 | MAC9D 8 AMP 400 V TRIAC | F 3 |
| Q132 | 102478－1 | TRIAC DRIVER SBS EV THRESH | F 9 |
| 0133 | 102480－1 | FET．N－CH 25V 50MA SOT－23 | M 9＊ |
| Q200 | C 744日－1 | MMET3984 CHIP NPN | K $\mathrm{g}^{*}$ |
| Q2E1 | C 7448－1 | MM193904 CHIP NPN | K ${ }^{\text {＊}}$ |
| 0202 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | L．${ }^{*}$ |
| 0203 | 1024日3－1 | PNP 300V 500MA SOT－23 | 」 9＊ |
| 0204 | C 5252－5 | 2N3904 40V NPN TRANSISTOR | 13 |
| 0205 | 103193－1 | PNP 30日V 500MA 50MHZ 50T－223 | 」 7＊ |
| 0207 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | K 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| 0208 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| 0209 | ［ 3931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | K 8＊ |
| 0210 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | 」 ${ }^{*}$ |
| Q211 | ［ 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | 」 2＊ |
| Q220 | 103193－1 | PNP Э00V 500MA 50MHZ SDT－223 | D $2^{*}$ |
| 0229 | ᄃ 744日－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 12510E－1 | MAC9D 日 AMP 40DV TRIAC | E 9 |
| 0232 | 10247日－1 | TRIAC DRIVER S日S EV THRESH | F 日 |
| 0233 | 102480－1 | FET．N－CH 25V 50MA SOT－23 | 」 ＊＊$^{\text {¢ }}$ |
| R1 | 103199－1 | 0.4 DHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 」 $\mathrm{B}^{*}$ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \% \mathrm{CHIP} 2512$ | 」 $\mathrm{E}^{*}$ |
| R3 | A11371－3341 | 330K 0．18W 5\％EHIP 0805 | I $日^{*}$ |
| R4 | A11371－3313 | $330 \mathrm{OHM} \mathrm{D.25W} \mathrm{5} \mathrm{\%} \mathrm{CHIP}$ | I 1＊ |
| R5 | A1136日－69811 | 6．9日K OHM D．18W 1\％CHIP 0805 | D $8^{*}$ |
| R6 | A1136日－93111 | 9．31K 0．1W 1\％CHIP 0805 | D $\mathrm{B}^{*}$ |
| R7 | 103199－1 | 0．4 DHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | J 日＊ |
| R日 | A11371－1022 | 1 K 日． $125 \mathrm{~W} 5 \%$ CHIP 1206 | N 10＊ |
| RS | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | H 9＊ |
| R10 | A1136日－20023 | 20K $0.25 \mathrm{~W} 1 \% \mathrm{CHIP} 1210$ | H 9＊ |
| R11 | A11371－3341 | 330K 0．18W 5\％EHIP 0805 | I 9＊ |
| R12 | A11368－68121 | $68.1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | I 9＊ |
| R13 | A11371－1811 | 100 OHM B．10W 5\％CHIP 0805 | I 10＊ |
| R14 | A11371－0R21 | 0．2 OHM ®． $10 \mathrm{~W} 5 \%$ CHIP 0805 | I 10＊ |
| R15 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R16 | A11371－3923 | $3.9 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP | N 9＊ |
| R17 | A1136日－82511 | 日． 25 K 0.1 W 1\％EHIP 0885 | F 10＊ |
| R18 | A11368－71511 | 7．15K 1／10W 1\％CHIP 0805 | D 日＊ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊＊ |
| R20 | A11368－57621 | 57． 5 K ®．10W 1\％CHIP 0805 | I 9＊$^{*}$ |
| R21 | A11368－12121 | $12.1 \mathrm{~K} \mathrm{OHM} \mathrm{D.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0805}$ | 」 \％$^{*}$ |
| R22 | A11368－39231 | 392K 0．18W 1\％EHIP 0805 | I ＊$^{*}$ |
| R23 | A11368－39231 | 392K 0．10W 1\％LHIP 0805 | I $9^{*}$ |
| R24 | A11368－57621 | 57．6K 0．10W 1\％CHIP 0805 | $19^{*}$ |
| R25 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | N 9＊ |
| R26 | A11371－3341 | 330K 0．10W 5\％LHIP 0805 | A S＊ |
| F27 | A11368－20021 | 20K 0．10W 1\％LHIP 0805 | L 9＊ |
| R2日 | A11371－7511 | 750 OHM D．10W 5\％CHIP | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R30 | A1136日－10831 | 100K 0．1W 1\％CHIP 0B05 | I $\mathrm{B}^{*}$ |
| R31 |  | 100 K ，1 W $1 \%$ CHIP 0805 | J 日＊ |
| R32 |  | DO NOT INSTALL． | 」 日 |
| R32X | 127229－1 | RES．11日⿹ DHM 5W 5\％THICK FILM | J 8 |
| R33 | A11371－0R21 | ロ． 2 DHM B．10W 5\％LHIP 0日®5 | I 10＊ |
| R34 |  | DO NOT INSTALL | Ј 8 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ． | L 1 |
| R101 | A1135B－10011 | 1K 0．10W 1\％CHIP 0日05 | M 10＊ |
| R102 | A11368－39231 | 332K 0．10W 1\％LHIP 8日05 | N 9＊ |
| R103 | A1136B－49901 | 499 DHM D． $10 \mathrm{~W} 1 \%$ EHIP 0B05 | N O＊$^{*}$ |
| R104 | A1136日－10021 | 10K 1／10W 1\％EHIP 0日Q5 | N 9＊ |
| R195 | A11371－6B14 | 6日® DHM 0．50W 5\％［HIP | 」 1＊ |
| R106 | A113E日－10011 | 1K 日．10W 1\％CHIP 0日05 | M $\mathrm{S}^{*}$ |
| R107 | A1136日－10021 | 1 KK 1／1』W 1\％CHIP 0日05 | L 1 ${ }^{*}$ |
| R18日 | A1135日－10】21 | 10K 1／18W 1\％CHIP 8日®5 | L 10＊ |
| R109 | A113E日－19122 | 19．1K 区．125W 1\％LHIP 1206 | M $9^{*}$ |
| R110 | A1136日－10011 | 1K Q．10W 1\％CHIP 日日®5 | L S＊$^{*}$ |
| R111 | A113E日－10821 | 10K 1／1日W 1\％CHIP 日日®5 | L 9＊ |
| R112 | A10265－19121 | $19.1 \mathrm{~K} \mathrm{~L} .25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 9 |
| R113 | A1136日－51111 | 5.11 K OHM 日． $10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 日8®5 | L 10＊ |
| R114 | A113EB－82511 | 日． 25 K ロ．1W 1\％CHIP 0 O05 | L 10＊ |
| R115 | A1136B－6日121 | 6B． 1 K ®． 1 DW 1\％CHIP | ᄂ 10＊ |
| R116 | A11368－22601 | 226 OHM 0．10W 1\％CHIP 0B05 | M 9＊ |
| R117 | A11371－3341 | 330K 日． $10 \mathrm{~W} 5 \%$ CHIP 0日05 | M 9＊ |
| R118 | A1136日－68111 | 白． 1 1K OHM D．10W 1\％CHIP D日05 | M 10 |
| R119 | A11371－3333 | 33 K 日．25W $5 \%$ CHIP 1210 | M ${ }^{*}$ |
| R120 | A11368－90921 | 90．9K 0．10W 1\％EHIP 0805 | M 9＊ |
| R121 | A1136B－1 ${ }^{\text {A }}$（1） 11 | 10K 1／10W 1\％CHIP DED5 | M 10 |
| R122 | A1136B－15831 | 15BK 日．10W 1\％CHIP 0805 | N 3＊ |
| R123 | A1136日－10031 | 1日ロK ロ．1W 1\％CHIP 0BD5 | M $9^{*}$ |
| R124 | A1136B－15831 | 15日K 0．10W $1 \%$ LHIP 0885 | M S＊ |
| R125 | A1135日－10031 | 1日⿹K 日．1W 1\％LHIP 0日05 | N $9^{*}$ |
| R126 | A1135B－49921 | 49．9K $0.1 \mathrm{~W} 1 \%$ CHIP 0日®5 | M $\mathrm{G}^{*}$ |
| F127 | A11371－6B21 | 5．BK D． $10 \mathrm{~W} 5 \%$ CHIP 0805 | N $\mathrm{g}^{*}$ |
| R12日 | A11371－6B14 | 5日0 DHM 0．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－8211 | B20 OHM 0．10W 5\％LHIP | N 7＊ |
| R130 |  | QPEN | D $\mathrm{B}^{*}$ |
| R131 |  | OPEN | 口 日＊ |
| R132 | A11371－2223 | 2． 2 K 日．25W 5\％LHIP 1210 | H 6＊ |
| R133 | A11371－7511 | 750 DHM D．10W 5\％［HIP | H $\mathrm{E}^{*}$ |
| R134 | C10513－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3． $3 \mathrm{~K} 0.25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | M 7 ＊ |
| R136 | A11371－8201 | 日2 OHM 日．10W 5\％CHIP | M $7 *$ |
| R137 | A113B日－15日杖 | 150 OHM D． $125 \mathrm{~W} 1 \%$ CHIP | N $B^{*}$ |
| R138 | A11371－1213 | 120 OHM D．25W 5\％CHIP | N 8＊ |
| R139 | A1136日－13703 | 137 OHM ロ．25W 1\％CHIP | N 日＊ |
| R140 | A11371－3333 | 33K D．25W 5\％CHIP 1210 | N $\mathrm{O}^{*}$ |
| R141 | A11371－6211 | 日20 OHM 0．10W 5\％CHIP | ○ $\mathrm{B}^{*}$ |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reterence Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R142 | 125478－1 | $3.83 K O H M ~ 日 .50 W ~ 1 \% 2010 ~ T / R ~$ | O 8＊ |
| R143 | A11371－3333 | 33K 0． 25 W 5\％CHIP 1210 | N 日＊ |
| F1 44 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N $\mathrm{B}^{*}$ |
| R145 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊＊ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％LHIP 0805 | N 7＊ |
| Fi 47 | A1 1371－1011 | 100 OHM D． $10 \mathrm{~W} 5 \%$ CHIP 0日05 | N 7＊ |
| R14日 | A1 1371－1811 | 1日0 OHM D．10W 5\％CHIP | M 7＊ |
| f150 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | N $6^{*}$ |
| R152 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K $5^{*}$ |
| F153 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R156 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 6＊ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％25i2 T／R | N 5＊ |
| R158 | A1026E－2R74 | 2.7 OHM 2W 5\％CF | I B |
| F159 | 103193－1 | 0.4 OHM 1 W 5\％ 2512 T／R | D E＊ |
| F160 | A11371－1501 | 15 OHM 0．10W 5\％CHIF | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | H $7 *$ |
| F162 | A）1371－4701 | 47 OHM 0．10W 5\％CHIP | H $7 *$ |
| P163 | A11371－1811 | 1日0 OHM 0．10W 5\％CHIP | I $7 *$ |
| F165 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | I 5＊ |
| F9157 | 103199－1 | D． 4 DHM 1W 5\％2512 T／R | E $6^{*}$ |
| R16日 | 183199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F $\mathrm{E}^{*}$ |
| R171 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R172 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H $\mathrm{E}^{*}$ |
| R174 | A11368－60432 | 604K OHM 0．125W $1 \%$ CHIP 1206 | G 8＊ |
| R175 | A11368－51111 | $5.11 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} 1 \%$ CHIP 8日05 | G 8＊ |
| R176 | A1136日－10021 | 10K 1／10W 1\％CHIP 日日E5 | G 8＊ |
| P177 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | H $\mathrm{G}^{*}$ |
| R178 | A11368－90921 | 90．3K 0．10w $1 \%$ EHIP 0日05 | N $\mathrm{S}^{*}$ |
| R179 | A11358－10031 | 100K 0．1W $1 \%$ CHIP 0805 | F 7＊ |
| R180 | A1136日－39231 | 392K 日．10W 1\％CHIP 0BQ5 | G 8＊ |
| R181 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | J 1＊ |
| 8182 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | F $8^{*}$ |
| R183 | A1 1368－10031 | 100K D． 1 W 1\％CHIP 0805 | F $8^{*}$ |
| R184 | A1136日－20023 | 20K D．25W $1 \%$ CHIP 1210 | F $9^{*}$ |
| R185 | A1 1368－10921 | 10K 1／1日W 1\％CHIP 0g05 | G 8＊ |
| R186 | A1136日－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0日05 | N 10＊ |
| R187 | A1136日－15831 | 158K ロ．10W 1\％CHIP 0B05 | M 10＊ |
| ¢18日 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | N 10＊ |
| R189 | A11368－10031 | 100K ロ．1W $1 \%$ CHIP 0805 | M 10＊ |
| A190 | A1138B－57621 | 57．6K $0.10 \mathrm{~W} 1 \%$ EHIP 0805 | N E＊ |
| $R 191$ | A1136日－22601 | 226 OHM 0．10W 1\％CHIP 0805 | N 6＊ |
| P192 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1208 | L 9＊ |
| 月193 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | N 9＊ |
| R194 | A11371－8201 | 82 OHM D． $10 \mathrm{~W} 5 \%$ CHIP | M 7 ＊ |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | M 7 ＊ |
| R196 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | M 9＊ |
| F197 | A1136日－51111 | 5.11 K OHM 日．10W 1\％CHIP BAD5 | M 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC |
| R198 |  | OPEN | M 10 |
| R193 | A11371－0R02 | 0.0 OHM JUMPER LHIP 1206 | N ${ }^{\text {＊}}$ |
| R200 | 102595－3 | POT，SK LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A11368－10011 | 1K 0．10W 1\％CHIP 0805 | K 10＊ |
| R202 | A11368－39231 | 392K 8．10W 1\％CHIP 0805 | L 9＊ |
| R203 | A1136日－49901 | 499 OHM 0．10W 1\％CHIP 日日®5 | L G＊ |
| R204 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | L 9＊ |
| R205 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | M 1＊ |
| R206 | A11368－10011 | 1K 0．10W 1\％CHIP BEOS | J $3^{*}$ |
| R209 | A11388－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | K $9^{*}$ |
| R210 | A1136日－10011 | 1K 0．10W 1\％CHIP 0805 | 」 $9^{*}$ |
| R211 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | 」 」＊$^{\text {J }}$ |
| R212 | A10265－19121 | 19．1K $0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 」 9 |
| R213 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | 」18＊ |
| R214 | A11368－82511 | 日．25K 日．\％W 1\％CHIP 0805 | 」10＊ |
| R215 | A11368－68121 | 6B． $1 \mathrm{~K} 0.1 \mathrm{OW} 1 \%$ LHIP | 」10＊ |
| R216 | A11368－22601 | 226 OHM D． $10 \mathrm{~W} 1 \%$ CHIP 0日05 | K 9＊ |
| R217 | A11371－3341 | 330K 0．10W 5\％CHIP D805 | J 9＊ |
| R218 | A11368－68111 | 6．81K OHM 0．10W 1\％LHIP 0a05 | K 10 |
| R219 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 」 9＊ |
| R220 | A11368－90921 | 90．9K 0．10W 1\％LHIP 0805 | K 9＊ |
| R221 | A11368－10221 | 10K 1／10W 1\％CHIP 0日R5 | K 10 |
| R222 | A11368－15831 | 158K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 9＊ |
| R223 | A1 1368－10031 | 100K 0．1W $1 \%$ EHIP 0日05 | K 9＊ |
| R224 | A11368－15831 | 158K 0．10W 1\％LHIP 0805 | K 9＊ |
| R225 | A1 1368－10031 | 100K 0．1W $1 \%$ CHIP 0日U5 | L 9＊ |
| R226 | A11368－49921 | 49．9K 0.1 W 1\％LHIP 0805 | K 9＊ |
| R227 | A11371－6日21 | 6．8K 0．10W 5\％CHIP D日05 | K 9＊ |
| R228 | A11371－6814 | 6日日 OHM 0．50W 5\％LHIP | M 1＊ |
| R229 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | K 7＊ |
| R236 |  | DPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 7＊ |
| R236 | A11371－8201 | 82 OHM 0．10W 5\％LHIP | J 7＊ |
| R237 | A113E8－150日2 | 150 OHM 0．125W 1\％CHIP | K $\mathrm{B}^{*}$ |
| R238 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A1136日－13703 | 137 OHM 0．25W 1\％CHIP | K $8^{*}$ |
| R240 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | L B＊ |
| R242 | 125478－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} \mathrm{1} \mathrm{\%} \mathrm{2010} \mathrm{T/R}$ | L 7＊ |
| R243 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | K $日^{*}$ |
| R244 | A11371－1213 | 120 OHM D．25W 5\％CHIP | K 8＊ |
| R245 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $8^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 」 2＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R247 | A11371－1011 | 108 OHM 0．10W 5\％CHIP D日®5 | J 2＊ |
| R248 | A11371－1B11 | 18 D OHM 0．10W 5\％CHIP | K 2＊ |
| R250 | A11371－5R63 | 5．6 0．25W 5\％CHIP | 」 ${ }^{*}$ |
| R252 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 4＊$^{\text {＊}}$ |
| R253 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N ${ }^{\text {＊}}$ |
| R257 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N ${ }^{*}$ |
| R259 | 103199－1 | 0.4 OHM 1 W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | D $1^{*}$ |
| R261 | A11371－1331 | 13 K OHM ®．10W 5\％EHIP 0a05 | E 2＊ |
| R262 | A11371－4701 | 47 OHM 0．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 180 OHM 0.10 W 5\％EHIP | E $2^{*}$ |
| R265 | A11371－5R63 | 5.6 0．25W 5\％CHIP | E 2＊ |
| R267 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R268 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | $F 3^{*}$ |
| R271 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | H 4＊ |
| R272 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | H ${ }^{*}$ |
| R274 | A1136日－60432 | 604 K OHM 0．125W $1 \%$ EHIP 1206 | E $日^{*}$ |
| R275 | A1136日－51111 | 5.11 K OHM D． $10 \mathrm{~W} 1 \%$ CHIP 0日05 | E $日^{*}$ |
| R276 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | E 日＊ |
| R277 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | E $8^{*}$ |
| R278 | A1136日－90921 | 90．9K 0．10W 1\％CHIP 0805 | L 9＊ |
| R279 | A1136日－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | E 7＊ |
| R280 | A1136日－39231 | 392K 0．10W 1\％CHIP 8日Q5 | E $8^{*}$ |
| R281 | A11371－6814 | 680 OHM ®．50w 5\％LHIP | M 1＊＊ |
| R2日2 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | D $8^{*}$ |
| R2日 3 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP D日05 | E $日^{*}$ |
| R284 | A11368－20023 | 20K 0．25W 1\％LHIP 1210 | F 9＊ |
| R285 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | F $\mathrm{日}^{*}$ |
| R286 | A1136日－10031 | 100K 0．1W 1\％［HIP 0B05 | L 10＊ |
| F287 | A1136日－15日31 | 158 K 日． $10 \mathrm{~W} 1 \%$ CHIP 8805 | K 10＊ |
| R28日 | A1136日－15日31 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP $\mathrm{CBQ5}$ | K 10＊ |
| R289 | A1136日－10031 | 108 O ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R290 | A1136B－57621 | 57．5K 0．10W $1 \%$ CHIP 0805 | N ${ }^{*}$ |
| R291 | A11368－22601 | 226 DHM B．10W 1\％CHIP 0日05 | N 3＊ |
| R292 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 120E | 」 ＊＊$^{\text {a }}$ |
| R293 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0805 | K 9＊ |
| R294 | A11371－日201 | B2 OHM 0．10W 5\％EHIP | 」 ${ }^{*}$ |
| R295 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | 」 7＊ |
| A296 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | K 9＊ |
| R297 | A1136日－51111 | 5.11 K OHM 0．10W 1\％EHIP 0805 | K 10 |
| F298 |  | QPEN | K 10 |
| F299 | A11371－0R02 | 0.0 OHM JUMPER EHIP 1206 | K 日＊ |
| F300 | 103198－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 6＊ |
| R301 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | J 它＊ |
| R302 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R305 | 103193－1 | D． 4 DHM 1W 5\％ 2512 T／R | M 6＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R308 | 103199－1 | 0．4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R307 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6 ＊ |
| R30日 | 103199－1 | 0． 4 OHM 1 W 5\％ 2512 T／R | F 6＊ |
| R311 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E $\mathrm{E}^{*}$ |
| R312 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | I 6＊ |
| R313 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | G 7＊ |
| R314 | A11371－3341 | 330K 0．10W 5\％LHIP 0805 | G 7＊ |
| R315 | A11368－51111 | 5.11 K OHM 0．10W 1\％LHIP 0日05 | H 7＊ |
| R316 | A11368－10011 | 1K 0．t0w 1\％CHIP 0805 | M 10＊ |
| R317 | A11371－3934 | 39K OHM $0.50 \mathrm{~W} 5 \%$ LHIP 1210 | N 8 |
| R31日 | A11371－3934 | 39 K OHM $0.50 \mathrm{~W} 5 \%$ CHIP 1210 | N 8 |
| A319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | L 9 |
| R323 | A11371－0Rロ2 | 日．ロHM JUMPER LHIP 1206 | G 8 |
| R400 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D $3^{*}$ |
| R401 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | 」 $4^{*}$ |
| R402 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M ${ }^{*}$ |
| R406 | 103193－1 | $0.40 \mathrm{HM} \mathrm{1W} \mathrm{5} \mathrm{\%} 2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| R407 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R40日 | 103199－1 | 0． 4 OHM 1W5\％2512 T／R | F $3^{*}$ |
| R411 | 103199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 4＊ |
| R4 12 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | I 3 ＊ |
| R413 | A11368－10021 | 10K 1／10W 1\％CHIP B日Q5 | E 7＊ |
| R414 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | E 7＊ |
| R415 | A）136日－51111 | 5.11 K OHM 0．10W 1\％CHIP BBES | E 7＊ |
| R416 | A11368－10日11 | 1K $0.10 \mathrm{~W} 1 \%$ CHIP 0日Q | K 10＊ |
| R417 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | $K 7$ |
| F418 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | K 日 |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5．6 OHM 1W 5\％CHIP 2512 | H ${ }^{\text {＊}}$ |
| R421 | A11371－5R65 | 5．6 DHM $1 \mathrm{~W} 5 \%$ CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | J 9 |
| R423 | A11371－0R02 | Q．$\square$ OHM JLMPER CHIP 1206 | F 8 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only



## INACTIVE

For Reference Use Only


## Component Map

for use with
Main PWA 127321-1



For RACerence Use ony


|  |  |  | DESCRIPTION | DATE | EY | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E．C．N． | ZONE | REV． |  |  |  | \％${ }^{\text {P／K }}$ | CM | EE | PE |
| T991752 |  | A | INITIAL RELEASE TO PRODUITİN． | 10－18－99 | KLw | dou | K2 | W／A | \％ |
|  |  |  |  |  |  | $V$ |  |  |  |

NOTES：
1．SCHEMATIC DRAWING NUMEER 102141
2．PWE PART NUMEER $102138-9$.
3．THE PWA SHALL MEET THE IPC－A－610＿CLASS 2 standards．
4．ALL LEADS SHALL BE TRIMMED TO 0．093＂OR LESS．
5．POSITION COMPONENTS AS SHOWN ON COMBONENT MAP．
6．COMPONENTS THAT HAVE（＊）AFTER THEIR MAP LOCATION afe mounted on the bottom side of the printed circuit board．
7．REMOVE SOlder OR PREVENT SOLDER FHOM ACClmmLating IN HOLES．
B．THE VENT HOLE ON TOP OF THE RELAYS K100 AND K200 MLST be opened after the cleaning process．by either removing the sealing tape of cutting off the circular tab with an＂EXacto＂knife or simular CUTTING TOOL．WARNING，THIS STEP MUST EE DONE AFTER THE CLEANING PROCESS NOT EEFORE！！！WATEA OR CLEANING SOLVENTS ENTERING THE relay vent hole will damage the relay．
9．CONNECT THE WIRES THAT COME FROM Di 23 AND 0223 TO WP4 AND WPS RESPECTIVELY．
10．THE PWA PART NUMEER FOR THIS MODULE SHALL BE MAAKED ON THE p．C．board and shall be pegmanent．use a label to cover le the old pwa numbers and afeix the new pwa numeer．
11．INSTALLATION OF U16G and U206 is as follows： 11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOR 1276日3－1
11日．日End transistor at ge deg．flat side down
11c．place transistor into the pwe as shown on the component map detail g．
11D．MIX OUTPLT EPOXY AND ALCELEEAATOR TOGETHER． apply the mixture to the thansistor and heatsink． THE MIXTURE MUST FILL THE HEATSINK HOLE AND THE leads of the device，especially the center lead． （NOTE：NO VISI日le air gaps around the transistor and the thansistor leads cannot touch the heatsink） 11E．hold the thansistor against the heatsink until epoxy sets－up
12．TORQLE 6－32 HEX NUTS（CPN A11056－1）AS FOLLOWS：
12A．PRE－WAVE TOAQUE OF 4－6 INCH LBS．
12日．POST－WAVE AND WHEN ASSEMELY HAS COOLED DOWN TO HANDLING TEMPERATUAE TORQUE OF 13－15 INCH LES．
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPONENT MAP
14．INSTALL 52 WITH THE SWITCH BAT FACING AWAY FROM REAR EDGE OF THE BOARD．SEE SMEET 19 COMPONENT MAP GOR CLARITY．


INACTIVE<br>For Reference Use Only

| these drawings and specifications afe the PROPEATY OF CROWN INTEANATIONAL．INC．AND AS THE AASIS FOA THE MANUFACTURE OA SALE OF APPARATUS OH DEVICES wITHOUT PEAMISSION． |  |
| :---: | :---: |
| ERNATIDNAL INC． |  |
| 39－6 \＆－8 |  |
| moved a | NOT SCA |
| A | SUPERSEDES |
| － | E．C． |
| $\frac{8 / 9 / 10 / 99}{\text { ASM: }}$ | DWG．NO．SHEET 1 OF 19 <br> $127321-2$ |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 8 | HW9，HW18，HW1 ，HW12，HW1 3，HW1 4， |
|  |  |  | HW15．HW1 6 |
| A10265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112，R2 12 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104」D | 0． 1 MF 250V $5 \%$ MTL PQLY | 2 | C118．C21日 |
| A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 8 | HW17．HW1日，HW1 S，HW20，HW2 1． |
|  |  |  | HW22．HW23．HW24 |
| A1136日－10011 | 1 K 日． $1 \mathrm{CW} 1 \%$ CHIP 0805 | 8 | R101．R106．R110．R201，R20E． |
|  |  |  | R210．R316．R4！6 |
| A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | 23 | R9，R104．R107．R108，R111，R121， |
|  |  |  | R176，R177，R182，R185．R193． |
|  |  |  | R196，R204，R211，R221，R276， |
|  |  |  | R277，R282，R285，R293，R296． |
|  |  |  | R313．R413 |
| A11368－10031 | 100K 0．1W 1\％CHIP 0005 | ¢ 5 | R25．R30．R31．R123．R125．R179， |
|  |  |  | R1日3，R186，R189，R223，R225． |
|  |  |  | R279，R283．R286．R2日9 |
| A11368－12121 | $12.1 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} 0805$ | 1 | R21 |
| A11368－13793 | 137 OHM 0．25W 1\％CHIP | 2 | R139．R239 |
| A11368－15831 | 15日K 0．10W 1\％CHIP 日BQ5 | B | R122，R124，R187．R1日8．R222． |
|  |  |  | R224．R287．R28日 |
| A1136日－19122 | 19．1K 0．125W 1\％CHIP 1206 | 2 | R109，R209 |
| A1136日－20021 | 20K 0．10W 1\％CHIP 0805 | 1 | R27 |
| A1136日－28023 | 20K 日．25W 1\％CHIP 1210 | 3 | R18．R184，R2B4 |
| A1136日－22601 | 226 OHM 0．10W 1\％CHIP 0日B5 | 4 | R116，R191，R216，R291 |
| A1136日－39231 | 392 K 0．10W 1\％CHIP E日05 | 6 | R22，R23．R102，R180，R202，R280 |
| A1136日－4990\％ | 498 OHM 0．10W 1\％CHIP D8Q5 | 2 | R103，R203 |
| A1136日－49902 | 499 OHM ． $125 \mathrm{~W} 1 \% 1206$ T／R | 2 | R137．R237 |
| A11368－49921 | 49．9K 0．1W 1\％CHIP 0905 | 2 | R126，R226 |
| A1136日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0日05 | 9 | R113．f175．R197．R213，R275． |
|  |  |  | R297，R315．R415 |
| A11368－57621 | 57.5 K 0．10W 1\％CHIP 0805 | 4 | R20．R24，R190，R290 |
| A1 136日－60432 | 604 K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1208 | 4 | R174．R192．R274．R292 |
| A1136日－68111 | $6 . \mathrm{B1K} \mathrm{OHM} \mathrm{0.10W} 1 \%$ CHIP 0805 | 2 | R11B，R218 |
| A1136日－5日121 | 68．1K $0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ | 3 | R12，R115，R215 |
| A1 1368－69811 | 6．9日K OHM 0．10W 1\％CHIP E日Q5 | 1 | R5 |
| A1136日－71511 | 7．15K 1／10W 1\％CHIP 8日05 | 1 | Ai $B$ |
| A11368－82511 | 0．25K 0．1W 1\％CHIP 0805 | 3 | R17，R114，R214 |
| A11368－90921 | 90．9K 0．10W 1\％CHIP 8BQ5 | 4 | R120，R178，R220，R278 |
| A11368－93111 | 9．31K 0．1W $1 \%$ CHIP 0805 | 1 | R6 |
| A1 1363－10252 | 0.001 L 50V 5\％NPO MLC 0日85 | 2 | C134．С234 |
| A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | 2 | C187． 5207 |
| A11389－330J2 | 33PF 50V 5\％NPO MLC D日0 5 | 2 | C142．C242 |
| A11363－471K2 | 470PF 50V 10\％NPO 0905 T／R | 4 | C11日．C141．C21日，C241 |
| A11371－0R02 | D．$\triangle$ OHM JJMPER CHIP 1206 | 4 | R199，R299．R323．R423 |
| A11371－R221 | 220HM ．1W 5\％O805 SMT | 3 | R14．R15．R33 |
| A11371－1011 | 100 OHM $0.10 \mathrm{~W} 5 \%$ CHIP 0805 | 3 | R13．R147，R247 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| CROWN <br> WEST MISHAWAKA POAD |  |  | LKhart． | PHONE |  | 8080 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Am | KLW | 09／10／99 | DWE．NO． | $127321^{\text {SHEE1 }}$ | 2 OF | AEV |
| ProJ． | 390D |  |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | FEFERENCE DESIGNATION |
| A11371－1813 | 100 OHM ． $25 \mathrm{~W} 5 \% 1210$ SMT T／R | 2 | R322．R422 |
| A11371－1022 | 1K 日． 125 W \％CHIP 1206 | 1 | RB |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 6 | R13日．R144，R145．R238，R244，R245 |
| A11371－1331 | 13 K OHM $0.1 \mathrm{CW} 5 \%$ CHIP 0805 | 4 | R146，R161，R246，R261 |
| A11371－1501 | 15 OHM 0．10W 5\％CHIP | 2 | R160．R260 |
| A11371－1日11 | 180 OHM 0．10W 5\％CHIP | 4 | R14日．R163．R24日．R283 |
| A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM D．25W 5\％CHIP | 2 | R4，R19 |
| A11371－3333 | 33 K 0.25 W \％CHIP 1210 | 5 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330K 日．10W 5\％CHIP 0日05 | 7 | R3，R11，R26，R117，R217，R314， |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | 4 | R317．R318，R417．R41B |
| A11371－4701 | 47 OHM D．10W 5\％CHIP | 2 | R162．R262 |
| A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 2 | R32，R34 |
| A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \%$ CHIP | 4 | R150．R165．R250．R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | R420．R421 |
| A11371－6814 | 680 OHM 0．50W 5\％CHIP | 6 | R105，R128，R1日1，R205，R22日，R281 |
| A11371－6821 | 6．日K 0．10W 5\％CHIP 0日05 | 2 | R127．R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R28，R133．R233 |
| A11371－8201 | 82 OHM 0．10W 5\％CHIP | 4 | R1 36．R194，R236．R294 |
| A11371－8211 | 820 OHM 0．10W 5\％CHIP | 6 | R129．R141，R195．R229，R241，R295 |
| A1137日－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－c050U | WIPE， 16 BLU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－1日3k2 | 0．01MF 50V 10\％EHIP 0805 | 6 | C109，ᄃ111．C115，ट209，C211．C215 |
| A11427－103K5 | 0.01 LF 50V 10\％$\times 7 \mathrm{R}$ SMD 1206 | 2 | Ct43．C243 |
| A11427－104K2 | 0． 1 MF 50V 10\％0日05 | 27 | C6，C7，C12，C24，C25，C28，C29． |
|  |  |  | C122，C126，C127．C128，C129， |
|  |  |  | C130，C131，C132，C133．С139． |
|  |  |  | C222，C226，C227，C22日，C229． |
|  |  |  | C230，C231， $2232, \mathrm{C} 233 . \mathrm{C} 239$ |
| A11427－123K2 | 0.012 MF 50 V 10\％CHIP | 2 | C112．C212 |
| A11427－272K2 | 270日PF 50V 10\％LHIP 0B05 | 2 | C117．c217 |
| A11427－472K2 | 4700PF 50V 10\％$\times 7 \mathrm{R}$ 0805 | 4 | C116．C119，C216，C219 |
| C 2851－1 | 1N40®4 SILIEON RECT． | 7 | D1，D2，D3．D4，D6．D7．D1® |
| C 3510－2 | CHOKE．470UH 10\％AXIAL | 4 | L100，L101，L20日，L201 |
| C 3549－0 | DIODE ZENER．10V． 1 N 5240 B | 1 | D8 |
| C 3679－5 | 33UF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | ［4， 55 |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－6 | 2.2 MF S®V VERT | 1 | C27 |
| C 6802－0 | 47 MF 50 V AX CERM | 2 | C102．c202 |
| C 7091－9 | 0.33 MF 50 V CHIP 1205 | 3 | C22，C140，C240 |
| C 7325－1 | 2P 2 PDS．PC SLIDE SW． | 1 | 52 |
| C 7448－1 | MMBT3984 CHIP NPN | 6 | 0100．0101． 0129.0200 .0201 .0229 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| C 8262－5 | MC3307BD DUAL LO NOISE OP AM | 4 | U4，U5，ப105． 4205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9012－3 | MC33079D QUAD LO NOISE DP AM | 2 | U101． 5201 |
| C 9038－8 | COMPARATOR，QUAD LM339D SO－1 | 4 | ப102，ப104，ப262，ப204 |
| C 9157－6 | $100 \mathrm{LF} 16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／ | 2 | C123． C 223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | Q104．0204 |
| C 92日3－0 | DIODE，1NS14／1N414日 SOT－23 S | 58 | D9，D13．D101，D102．D103，D104， |
|  |  |  | D105．D106．D107，D108，D109． |
|  |  |  | D11日．D111．D112．D113．D116． |
|  |  |  | D117，D118，D119，D120，D121， |
|  |  |  | D122，D123，D124．D125，D126， |
|  |  |  | D127．D1 2B．D129．D130，D201． |
|  |  |  | D202．D203．D204．D205．D206． |
|  |  |  | D207，D20日，D209，D210，D211． |
|  |  |  | D212．D213．D216．D217．D218， |
|  |  |  | D221．D222．D223，D224．D225． |
|  |  |  | D22E．D227．D22日．D229．D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP3日．TP39 |
| C 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | ப1×．U2X |
| C 9931－4 | MMET5087LT1 PNP $\times$ SISTOR SOT－ | 6 | 0102．0109．0111．0202．0209， 0211 |
| C10196－1 | 2．2MF 50V 20\％RAD T／R | 4 | C121．C124，C221．C224 |
| c10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105，ट205 |
| C10422－1 | DIODE，3A 400V IN5404 AXIAL | 4 | D114，D115，D214，D215 |
| C10613－5 | 1K TOP ADJUST TRIMMER T／R | 2 | R134，R234 |
| D 8917－3 | 820ดUF 1：QVDC ELECTROLYTIC | 2 | C20．C21 |
| 101016－1 | LBL．日ARCDDE， | 1 | 2 |
| 101031－1 | 250 FASTON，AUTO INSERTABLE | 3 | WP 4 ，WP5，WP7 |
| 101571－1 | HDA 2 PQS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDA 4 POS ， 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK．6P4 COND MQDULAR R／A | 1 | J 5 |
| 182138－9 | PWB．CE1000／CE2000 MAIN／INPU | 1 | 1 |
| 102438－101K2 | 100PF 200V 10\％NPO 0865 | 6 | C104，С120．C135．C204．C220．C235 |
| 102439－560K2 | $56 \mathrm{FF} 200 \mathrm{~V} 10 \% \mathrm{NPO} 0805$ | 2 | C106， 2006 |
| 182438－日29k2 | 日2PF 20日V 10\％NPO 0805 | 4 | C108，ᄃ13日，ᄃ208，С238 |
| 102485－1 | $47 \mathrm{UF} 50 \mathrm{~V} 20 \%$ RADIAL $\mathrm{T} / \mathrm{R}$ | 2 | C101， 201 |
| 102486－1 | 1日பF 250V 20\％RADIAL T／R | 1 | C1 |
| 102487－1 | 22MF 25V 20\％RAD T／R | 2 | C103．C203 |
| 10246日－1 | $47 \mathrm{UF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ AAD T／R | 4 | C113．C114．C213．C214 |
| 102470－1 | INDUCTOR，2．75UH 11A RADIAL | 2 | L102．L202 |
| 102472－3 | HDR，16POS． 100 CTR SGL ROW | 1 | J3 |
| 102473－1 | SPEAKON， 4 PQLE PCB HORZ | 2 | 」100，J200 |
| 102476－1 | LED．SMT R／A GREEN | 3 | E1，E101，E201 |
| 102477－1 | LED．SMT R／A RED | 4 | E100．E102．E200．E202 |
| 102478－1 | TRIAC DRIVER S日S 8 V THRESH | 2 | Q132． 4232 |
| 102479－1 | PWR MJD1 12 NPN DARLINGTON 10 | 3 | Q1．Q2．Q3 |
| 1024日0－1 | FET，N－CH 25V 50MA SOT－23 | 2 | Q133．0233 |
| 1024日1－1 | NPN 25V LOW NOISE SOT－23 | 2 | Q108，0208 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

| 7t日 WEST | Shaw | ＜a road | LKHART，IND | PHONE | （219） 294 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DRAWN | KLW | 09／10／99 | DWG．NO． | SHEET | 4 OF 19 | $V$ |
| PROJ． | MD390D0 |  |  | $\rightarrow 2$ |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| 1024日3－1 | PNP 300V 500MA SOT－23 | 2 | Q103．0203 |
| 1024处－1 | OPTO BJT NPN SOIC－B CTR $=100$ | 1 | U3 |
| 1024日年1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102569－3 | HS ASM，T1 ISOLATED CH1，， | 1 | HS3 |
| 102570－3 | HS ASM．T1 ISOLATED CH2． | 1 | HS 4 |
| 102571－3 | HS ASM．Ti NON－ISOLATED CHi． | 1 | HS 1 |
| 102572－3 | HS ASM．T1 NON－ISOLATED CH2， | 1 | HS2 |
| 102595－3 | POT．5K L．IN 21 DNT 12 MM HORI | 2 | R100． 2200 |
| 102608－1 | SPACER， $5 \times 187$ LONG ALUMINUM | 日 | HW1，HW2，HW3．HW4，HW5，HWG，HW7． |
|  |  |  | HWB |
| 102723－2 | OPTO CELL ON－500 OHM | 2 | U100．U200 |
| 103180－1 | BUMPER，0．4＊TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 0.47 LF Z5U $121020 \% 50 \mathrm{~V}$ | 2 | C144，C244 |
| 103192－1 | NPN 30QV 500MA 50MHZ SOT－223 | 4 | Q107．Q110．0207．0210 |
| 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 4 | 0105．0120，0205．0220 |
| 103199－1 | 0.4 DHM 1W 5\％2512 T／R | 38 | R1，R7，R152，R153，R155．R157． |
|  |  |  | R159，R167，R16日，R171，R172， |
|  |  |  | R252，R253，R256．R257．R259， |
|  |  |  | R267，R268，R271，R272，R300． |
|  |  |  | R301，R302，R305，R306，R307， |
|  |  |  | R308，R311，R312，R400，R401． |
|  |  |  | R402，R405，R406．R407．R40日， |
|  |  |  | R411．R412 |
| 103218－1 | 2． 2 LF 160V RADIAL T／R | 4 | C136．C137．C236．C237 |
| 103331－N050R | WIRE， 16 ELK／WHT TAB $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103418－103K2 | 01 MF 10 V V $10 \% \times 7 R$ 2a05 5MD | 1 | C2 |
| 125106－1 | MAC9D 日 AMP 400V TRIAC | 2 | 0131．0231 |
| 125242－1 | CAP，．625ID $\times 1^{*}$＂VINYL | 1 | 3 |
| 12547日－1 | 3．日3K0HM 0．50W 1\％2010 T／R | 2 | R142，R242 |
| 1254日2－1 | ADHESIVE LOCTITE 384 QUTPUT | 0 | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 125508－1 | 1 ULF 50VDC ELECTROLYTIC SMD | 2 | C．3． 230 |
| 126317－1 | REL． 38 Ca 24 V SPST PCB W／FAST | 2 | K100．K200 |
| 126825－1 | SILICONE，CLEAR 3OZ SYRINGE | 0 | 4 |
| 127442－1 | PREP，CE HI－V WIRE | 1 | WP5 |
| 127683－1 | SENSOR．CE THERMAL | 2 | ப106． 420 B |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| C1 | 102466－1 | 1 DUF 250V 20\％RADIAL T／R | J B |
| C2 | 10341日－103K2 | 61MF 100V 10\％×7R 0B85 5MD | F 9＊ |
| C3 | 125508－1 | 10UF 50VDC ELECTROLYTIC SMD | 18 |
| C4 | C 4477－3 | 470 MF 35 V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35V VERT | E 9 |
| C6 | A11427－104K2 | 0.1 MF 50V $10 \% 0805$ | H 10＊ |
| C7 | A1 1 427－104K2 | 0．1 MF 50V 10\％0005 | H 9＊ |
| C12 | A11427－104K2 | 0.1 MF 50V 10\％8日05 | I 9＊ |
| C20 | D 8917－3 | 8200UF 119 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 日200UF 11日VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | N 9＊ |
| C24 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | N 9＊ |
| C25 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | O 9＊ |
| C25 | C 8576－8 | 100 MF 35V 10\％ELEC | 19 |
| C27 | C 5382－6 | 2．2 MF 50V VERT | H 10 |
| C2日 | A11427－104K2 | 0．1 MF 50V 10\％8805 | 」 ＊＊$^{\text {＊}}$ |
| C29 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0日05 | 1 9＊ |
| C30 | 125508－1 | 1UUF 50VDC ELEECTROLYTIC SMD | I B |
| C31 | C 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102485－1 | 47UF：50V 20\％RADIAL T／R | M 9 |
| C102 | C 5802－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 20\％RAD T／R | M 9 |
| C104 | 10243日－101k2 | 100PF 200V 10\％NPO 0805 | M 9＊ |
| C105 | C1020日－4 | $106 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC |  |
| C106 | 102438－560K2 | 56PF 2DQV 10\％NPO 0日B5 | L 9＊ |
| C107 | A11369－270K2 | 27PF 50V 19\％NPD 0805 T／R | L 9＊ |
| C188 | 102438－820K2 | 82PF 200V 10\％NPO 0日85 | L 10＊ |
| C109 | A11427－183K2 | ロ． $81 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H 6＊ |
| C110 | A1 1369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | M 7＊ |
| C111 | A11427－1日3K2 | 0． 81 MF 50 V 10\％LHIP 8005 | N 8＊ |
| C112 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP}$ | O 白＊ |
| C113 | 102458－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C114 | 102468－1 | 47UF 10V $20 \% \mathrm{NP}$ RAD T／R | N 日 |
| C115 | A11427－103K2 | 日1 UF 50V 10\％X7R MLC 0805 | N 日＊ |
| C116 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 2700PF 50V 10\％［HIP 0805 | I 7＊ |
| C11日 | A10434－104JD | Q． 1 MF 250V 5\％MTL POLY | I 8 |
| C119 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | I 7＊ |
| C120 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | I 7＊ |
| C121 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD}$ T／R | G 8 |
| Ci22 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | F $\mathrm{g}^{*}$ |
| C123 | C 9157－6 | 1日ロLF 16 V 20\％NP ELEC RAD T／R | F 8 |
| C124 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | 19 |
| C126 | A11427－1日4K2 | 0.1 MF 50V 1B\％0805 | N 10＊ |
| C127 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N 9＊$^{*}$ |
| C128 | A11427－1日4K2 | 0． 1 MF 50V 10\％0805 | M 10＊ |
| C129 | A11427－104K2 | 0.1 MF 50V 10\％0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | 0.1 MF $50 \mathrm{~V} 10 \% 0805$ | H 日＊ |
| C131 | A11427－184K2 | Q． 1 MF 50V 10\％8日05 | H 7 ＊ |
| C132 | A11427－104K2 | 0．1 MF 50V 10\％0805 | F 7＊ |
| C133 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F $8^{*}$ |
| ［134 | A11369－102」2 | 0.001 UF 50V 5\％NPO MLC B日05 T／ | M 7＊ |
| C135 | 102438－101K2 | 100PF 20日V 10\％NPO Ba05 | N 7＊ |
| C136 | 103210－1 | 2．2UF 160V RADIAL T／R | 17 |
| C137 | 183210－1 | 2．2UF 150V RADIAL T／R | 17 |
| C． 138 | 102438－日20K2 | 82PF 200V 10\％NPO 0805 | M ${ }^{*}$ |
| C139 | A 1 1427－104K2 | 0．1 MF 50V 10\％0日05 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V LHIP 1206 | L 9 |
| C141 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | N 10 |
| C142 | A11369－330．2 | 33PF 50V 5\％NPO MLC 0日05 | M 10 |
| C143 | A11427－103K5 | 0．01MF 50V 5\％x7R 1206 | M $9^{*}$ |
| C144 | 103191－1 | 0.47 UF Z5U 1210 20\％50V | G 7＊ |
| C201 | 102465－1 | 47UF 50V 20\％RADIAL T／R | J 9 |
| C202 | C 6802－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 102438－101K2 | 10ロPF 200V 10\％NPO 0日05 | 」 ＊＊$^{*}$ |
| C205 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| C206 | 10243日－560K2 | 56PF 200V 10\％NPO 0805 | 」 $9^{*}$ |
| C207 | A11389－270K2 | 27PF 50V 10\％NPO 0805 T／R | 」 9＊ |
| C208 | 10243日－820K2 | 日2PF 200V 10\％NPO 0805 | J 10＊ |
| C209 | A11427－10．3K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO 0B05 T／R | K 7＊ |
| C211 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0805 | K 7＊ |
| C212 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP}$ | L B＊ |
| ［213 | 102468－1 | 47UF 10V 20\％NP RAD T／R | K B |
| C214 | 102468－1 | 47LF 10 V 20\％NP RAD $T / \mathrm{P}$ | K 日 |
| C215 | A11427－1日3K2 | 01 UF 50V 10\％$\times 7 \mathrm{R}$ MLC 0805 | K $8^{*}$ |
| C216 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 」 ${ }^{*}$ |
| C217 | A11427－272K2 | 270日PF 50V 10\％CHIP B905 | D 1＊ |
| C218 | A10434－104JD | 0．1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％X7R 0805 | E 1＊ |
| C220 | 1日2438－1日1K2 | 100PF 20日V 18\％NPO 0805 | D 2＊ |
| C221 | C18196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | E B |
| C222 | A11427－104K2 | 0.1 MF 50V 10\％0805 | E B＊ |
| C223 | C 9157－6 | 108UF $16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2．2MF 50V 20\％RAD T／R | J 9 |
| C226 | A11427－104K2 | 0.1 MF 50V 10\％0805 | K 10＊ |
| C227 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | K 9＊ |
| C228 | A1 1427－104K2 | 0.1 MF 50V 10\％ 0805 | J 10＊ |
| C229 | A11427－104K2 | 0.1 MF 50V 10\％9805 | 」 ${ }^{*}$ |
| C230 | A11427－104K2 | 日． 1 MF 50V 10\％0B05 | E 日＊ |
| C231 | A11427－104K2 | 0.1 MF 50V 16\％ 0805 | E 7＊ |
| C232 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | E 7＊ |
| C233 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | D $\mathrm{E}^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C234 | A11369－102J2 | 0.001 UF 50V 5\％NPO MLC 日B05 T／ | 」 7 ＊ |
| C235 | 10243日－181K2 | 100PF 200V 10\％NPO 0805 | 」 2＊ |
| С236 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2．2LF 160 V RADIAL T／R | I 1 |
| ᄃ238 | 102438－820K2 | B2PF 200V 10\％NPO 0805 | 」 7＊ |
| C239 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A11369－471k2 | 470PF．50V 10\％NPO 0805 T／R | L 10 |
| C242 | A11369－330」 2 | 33PF 50V 5\％NPO MLE 0日05 | K 18 |
| C243 | A11427－103K5 | 0.01 MF 50 V 5\％$\times 7 \mathrm{R} 1206$ | K 9＊ |
| C244 | 103191－1 | 0.47 LF Z5L $121028 \%$ 50V | E 7＊ |
| D1 | C 2051－1 | 1N40Q4 5ILICON RECT． | G 9 |
| D2 | C 2051－1 | 1N40日4 SILICON RECT． | $G 10$ |
| D3 | C 2日51－1 | 1N40日4 SILICON RECT． | $\square 10$ |
| D4 | C 2日51－1 | 1N40®4 SILICON RECT． | G 10 |
| D6 | C 2日51－1 | 1N4084 SILICON RECT． | 」 9 |
| D7 | C 2日51－1 | 1 N40日4 5 ILICON RECT． | 」 B |
| D日 | C 3549－8 | DIDDE ZENER，10V． 1 N5240B | J 8 |
| D9 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | I 9＊ |
| D18 | C 2日51－1 | 1N4004 SILICON RECT． | 110 |
| D13 | ᄃ 92日3－0 | DIODE．1N914／1N4148 SOT－23 SMT | $1{ }^{\text {g＊}}$ |
| D101 | C 9283－0 | DIODE，1N914／1N414日 SQT－23 SMT | N $9^{*}$ |
| D102 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 9＊ |
| D103 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | L 9＊ |
| D104 | C 92日3－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | M 9＊ |
| D105 | ᄃ 92日3－0 | DIODE． 1 N914／1N414日 SOT－23 SMT | L 9＊ |
| D106 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 8＊ |
| D107 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | N $日^{*}$ |
| D10日 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 8＊ |
| D109 | C 92日3－0 | DIODE，1NG14／1N4148 SOT－23 SMT | N 8＊＊ |
| D110 | C 92日3－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | $\mathrm{N}^{\text {日 }}{ }^{*}$ |
| D111 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 5MT | N ${ }^{\text {＊}}$ |
| D112 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D113 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 8＊ |
| D114 | ᄃ10422－1 | DIODE，3A 400V 1 N5404 AXIAL | I 5 |
| D115 | C10422－1 | DIODE，3A 400V 1N5404 AXIAL | I 5 |
| D116 | C 9283－0 | DIODE． 1 N914／1N4148 50T－23 5MT | G 8＊ |
| D117 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | M 10＊ |
| D118 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 5MT | N 10＊ |
| D119 | C 9283－a | DIODE，1N914／1N4148 SOT－23 SMT | I ${ }^{*}$ |
| D120 | C 9283－8 | DIODE．1N914／1N414B SDT－23 5MT | I 3＊$^{*}$ |
| D121 | C 9283－0 | DIODE．1N914／1N4148 SDT－23 5MT | L 9＊ |
| D122 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | M 9＊ |
| D123 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | G $9^{*}$ |
| D1 24 | C 9283－0 | DIODE．1NS14／1N4148 SDT－23 SMT | G 7＊ |
| D125 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | H 7＊ |
| D126 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | M 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| RON IN |  |  | NTERNAT I ONAL <br> ELKMART，INDIANA 46517 |  | INC． <br> 12191 $294-\mathrm{BDODR}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| dRAWN | KLW | 09／10／99 | DWG．NO． | SHEET | 9 OF 19 | RE |
| PROJ． | MD394D |  |  | $127321-2$ |  |  |



PARTS LIST

| REF DES | C．P．N． | DESCRIPTIUN | MAP LOC． |
| :---: | :---: | :---: | :---: |
| HW2 | 102608－1 | SPACER， $6 \times 187$ LONG ALUMINUM | A 4 |
| HW3 | 10260日－1 | SPACER， $5 \times 187$ LONG ALUMINUM | A 4 |
| HW4 | 102608－1 | SPACER，EX． 187 LONG ALUMINLM | A 4 |
| HW5 | 10260日－1 | SPALER， $5 \times 187$ LONG ALUMINUM | A 4 |
| HWG | 102608－1 | SPACER，6X． 187 LONG ALUMINLM | B 4 |
| HW7 | 102608－1 | SPACER， $5 \times 187$ LONG ALUMINUM | B 4 |
| HWB | 102608－1 | SPACER． $6 \times .187$ LDNG ALUMINUM | B 4 |
| HWS | A10020－7 | 6－32 $\times$ ． 625 PCB CAPTIVE STUD | D 5 |
| HW1 ${ }^{\text {d }}$ | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | I 6 |
| HW1 1 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | D 2 |
| HWI 2 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | I 3 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 15 |
| HW1 4 | A10020－7 | E－32 $\times .625$ PCB CAPTIVE STUD | N 6 |
| HW1 5 | A10020－7 | 6－32 $\times$ ． 625 PCG CAPTIVE STUD | J 2 |
| HW16 | A10020－7 | 6－32 $\times$ ．E25 PC日 CAPTIVE STUD | N 3 |
| HW1 7 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW18 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW19 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW20 | A11056－1 | 5－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW2 1 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW22 | A11055－1 | 6－32 HEX NUT W／BELLEVILLE | 84 |
| HW23 | A11056－1 | 5－32 HEX NUT W／日ELLEVILLE | 94 |
| HW2 4 | A11056－1 | 6－32 HEX NLT W／日ELLEVILLE | B 4 |
| J 2 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J 3 | 102472－3 | HDA， 16 OOS .100 CTA SGL ROW | M 日 |
| J 4 | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J 5 | 101993－1 | JACK．SP4 COND MODULAR R／A |  |
| J100 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| J 200 | 102473－1 | SPEAKON， 4 POLE PCB HDRZ | F 10 |
| K109 | 126317－1 | REL，3DA 24 V SPST PCB W／FASTON | G 9 |
| K200 | 126317－1 | REL，3日A 24 V SPST PCG W／FASTON | E 9 |
| L100 | ᄃ 3510－2 | CHOKE． 47 UUH 10\％AXIAL |  |
| L101 | C 3518－2 | CHOKE，470UH 10\％AXIAL | I 7 |
| L102 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL |  |
| L200 | C 3510－2 | CHOKE． 470 UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOKE，470UH 10\％AXIAL | D 1 |
| L202 | 182470－1 | INDUCTOR，2．75UH 11A RADIAL | I 1 |
| 01 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| Q2 | 182479－1 | PWR MJD112 NPN DARILINGTON $100 V$ | I 10 |
| 03 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | 110 |
| 0100 | C 7448－1 | MMET3904 CHIP NPN | M 9＊ |
| Q101 | C 7448－1 | MMBT3904 CHIP NPN | M 9＊ |
| Q102 | C 9931－4 | MMBT5087LT1 PNP XSISTOR SOT－23 | N 9＊ |
| Q103 | 102483－1 | PNP 30ロV 500MA SOT－23 | L 9＊ |
| 0104 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | 16 |
| Q105 | 103193－1 | PNP 30QV 500MA 50MHZ SDT－223 | M 7＊ |
| 0107 | 103192－1 | NPN 300V 50日MA 50MHZ SOT－223 | M ${ }^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| Q10日 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | N 8＊ |
| 0189 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | N $\mathrm{B}^{*}$ |
| Q110 | 103192－1 | NPN 30日V 50QMA 50MHZ 50T－223 | N 7＊ |
| 0111 | C 9931～4 | MMET5087LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q120 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | I $7 *$ |
| Q129 | C 7448－1 | MMET3904 CHIP NPN | 6 9＊ |
| Q131 | 125106－1 | MAC9D 日 AMP 400V TRIAC | F 9 |
| 0132 | 102478－1 | TRIAC DRIVER SES BV THRESH | F 9 |
| 0133 | 1024日0－1 | FET，N－CH 25V 50MA SOT－23 | M 9＊ |
| 0200 | C 7448－1 | MMET3904 CHIP NPN | K 9＊ |
| Q201 | C 744日－1 | MMBT3904 CHIP NPN | K 9＊ |
| 0202 | C 9931－4 | MMET50日7LT1 PNP $\times 5$ ISTOR SOT－23 | L 9＊ |
| 0203 | 1024日3－1 | PNP 300V 500MA SOT－23 | 」 9＊ |
| 0204 | C 9252－5 | $2 N 3904$ 40V NPN TRANSISTOR | I 3 |
| Q205 | 103193－1 | PNP 30VV 500MA 50MHZ SOT－223 | J 7＊ |
| 0207 | 103192－1 | NPN 30日V 500MA 50MHZ SOT－223 | K 7＊ |
| 0208 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| Q209 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | K 日＊ |
| 0210 | 103192－1 | NPN 300V 500MA 50MHZ S0T－223 | 」 2＊ |
| Q211 | C 9931－4 | MMBT50日7L．T1 PNP XSISTOR SDT－23 | 」 2＊ |
| 0220 | 103193－1 | PNP 30ロV 500MA 50MHZ SOT－223 | D 2＊ |
| 0229 | C 7448－1 | MMBT3904 EHIP NPN | E 9＊ |
| 0231 | 125106－1 | MAC9D 日 AMP 40DV TRIAC | E 9 |
| Q232 | 102478－1 | TRIAC DAIVER S日S 日V THRESH | F 8 |
| Q233 | 1024日处1 | FET，N－CH 25V 50MA SOT－23 | 」 ${ }^{*}$ |
| R1 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | 」 $日^{*}$ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 」 日＊ |
| R3 | A11371－3341 | 330 K Q． 10 W 5\％CHIP 0805 | I 日＊ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I $1^{*}$ |
| FS | A11368－69811 | 6．9日K OHM 0．10W 1\％CHIP 0805 | D B＊ |
| RE | A11368－93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0日05 | D 日＊ |
| R7 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | 」 日＊ |
| R日 | A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | N 10＊ |
| R9 | A11368－10021 | 10K 1／10W $1 \%$ CHIP D日05 | H 9＊ |
| R10 | A11368－20023 | 20K 0．25W $1 \%$ CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330K 日．10W 5\％CHIP 0805 | I 9＊ |
| R12 | A11368－68121 | 68．1K 日． 10 W 1\％EHIP | $19^{*}$ |
| R13 | A11371－1011 | 100 OHM D． $10 \mathrm{~W} 5 \%$ CHIP 0日05 | I 10＊ |
| R1 4 | A11371－R221 | 220HM ．1 W 5\％ 0805 SMT | $110 *$ |
| R15 | A11371－R221 | 220HM ．1W 5\％0805 SMT | I 10＊ |
| A16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | B． 25 K D． $1 \mathrm{~W} 1 \%$ CHIP 0805 | F 10＊ |
| R18 | A1138日－71511 | 7．15K 1／10W 1\％CHIP 0日05 | D $\mathrm{g}^{*}$ |
| R13 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊ |
| R20 | A1136日－57621 | 57．6K 0．10W 1\％CHIP 8805 | I 9＊ |
| R21 | A11368－12121 | 12.1 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0B05 | J 9＊ |
| R22 | A1136日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0日05 | 1 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only
THESE DPAWINGS AND SPECIFICATIONS ARE THE
 OS THE GASIS FOA THE MANUFACTUAE ORAMALE

CROWN INTERNATIONAL INC． 1718 WEST MISHAWAKA FOAD ELKHART．INDIANA 46517 FHONE（219）294－8geg


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R23 | A1136日－39231 | 392K 0．10W 1\％CHIP BB05 | I \％$^{*}$ |
| R24 | A11368－57621 | 57．6K 0．10W 1\％CHIP 0805 | $19^{*}$ |
| R25 | A11368－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP QBD5 | N 9＊ |
| R26 | A11371－3341 | 330K 0．10W 5\％CHIP 0905 | A 9＊ |
| R27 | A11368－20021 | 20K 0．10W 1\％CHIP 0日05 | L 9＊ |
| R2日 | A11371－7511 | 750 OHM 0．10W 5\％LHIP | L 9＊ |
| R30 | A1136日－10031 | 100K 0．1W 1\％CHIP 0805 | $1 B^{*}$ |
| R31 | A1136日－10031 | 100K 0.1 W 1\％CHIP 0日05 | 」 $\mathrm{E}^{*}$ |
| R32 | A11371－5615 | 568 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 8 |
| R33 | A11371－F221 | 220HM ．1W 5\％OBO5 SMT | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 」 8 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12 MM HaRIZ | L 1 |
| R101 | A1136日－10011 | 1K 0．10W 1\％CHIP 0日85 | M 10＊ |
| F102 | A1135日－39231 | 392K 0．10W 1\％CHIP 0805 | N 9＊ |
| R103 | A1136日－49901 | 499 OHM 0．10w $1 \%$ CHIP 0805 | N 9＊ |
| R104 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | N 9＊ |
| R105 | A11371－6日14 | E80 OHM 0．50W 5\％CHIP | 」 1＊ |
| F106 | A1135日－10011 | 1K 日．10W 1\％CHIP 0日05 | M 9＊ |
| F107 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | L 10＊ |
| R10日 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | L 10＊ |
| R109 | A1135日－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | M ${ }^{\text {＊}}$ |
| R110 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D日05 | L 9＊ |
| R111 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | L 9＊ |
| R112 | A10265－19121 | 19.1 K Q． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 9 |
| R113 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日®5 | L 10＊ |
| R114 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | L 10＊ |
| R115 | A11368－68121 | 5日． 1 K 0．10W 1\％CHIP | L．10＊ |
| R116 | A1136日－22501 | 226 OHM D． 10 W 1\％CHIP DB05 | M $9^{*}$ |
| R117 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | M 9＊ |
| R118 | A11368－68111 | 6.81 K OHM 0．10W 1\％CHIP 0日05 | M 10 |
| R119 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | M $\mathrm{S}^{*}$ |
| R120 | A11368－92921 | 90．9K 0．10W $1 \%$ CHIP 0805 | M 9＊ |
| R121 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | M 10 |
| R122 | A1136日－15831 | 158K $0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | N 9＊ |
| R123 | A1136日－10031 | 100K 0．1W 1\％CHIP 0805 | M 9＊ |
| H124 | A1136日－15日31 | 158k 0．10w $1 \% \mathrm{CHIP}$ 0885 | M 9＊ |
| R125 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | N 9＊ |
| R126 | A11368－49921 | 49．9K 0．1W $1 \%$ CHIP 0805 | M 9＊ |
| R127 | A11371－6821 | 6．日K 0．10W 5\％CHIP 0805 | N 9＊ |
| R128 | A11371－6814 | 6BØ OHM ®．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－8211 | 820 OHM D． 10 W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | 0 8＊ |
| R131 |  | OPEN | $08^{*}$ |
| R132 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 6＊ |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 6＊ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R135 | A19371－3923 | 3．9K 0．25W 5\％CHIP | M 7＊ |
| R136 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M $7 *$ |
| R137 | A11368－49902 | 499 OHM ． $125 \mathrm{~W} 1 \% 1206$ T／A | N $\mathrm{E}^{*}$ |
| R138 | A11371－1213 | 120 DHM 0．25W 5\％CHIP | N $\mathrm{B}^{*}$ |
| R139 | A11368－13703 | 137 DHM 0．25W 1\％CHIP | N $\mathrm{B}^{*}$ |
| R140 | A11371－3333 | 33K D．25W 5\％CHIP 1210 | N $\mathrm{B}^{*}$ |
| R141 | A11371－8211 | B20 OHM 0．10W 5\％CHIP | $0 \mathrm{~B}^{*}$ |
| R142 | 12547日－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} 1 \% 2010$ T／R | O日＊ |
| R143 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $\mathrm{B}^{*}$ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N $\mathrm{B}^{*}$ |
| R145 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 日＊ |
| R146 | A11371－1331 | 13K OHM 0．10W 5\％CHIP 日e刀5 | N 7＊ |
| R147 | A11371－1011 | 180 OHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R14日 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | M 7＊ |
| R150 | A11371－5R63 | 5.60 .25 W 5\％CHIP | N E＊ |
| R152 | 103199－1 | 0．4 OHM 1W $5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 6＊ |
| R153 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R156 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | M 6＊ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％25：2 T／R | N 5＊ |
| R158 | A10266－2R74 | 2．7 OHM 2W 5\％［F | I 日 |
| R159 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | D $\mathrm{E}^{*}$ |
| R160 | A11371－1501 | 15 OHM D．10W 5\％CHIP | I 7＊ |
|  | A11371－1331 | 13 K OHM 日．10W 5\％CHIP 0805 | H 7＊ |
| R162 | A11371－4701 | 47 OHM D．10W 5\％CHIP | H 7＊ |
| R163 | A11371－1日1 | 1 BO OHM 0．10W 5\％CHIP | I 7＊ |
| R165 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | 1 5＊ |
| R167 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E $\mathrm{E}^{*}$ |
| A168 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| F171 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | G $6^{*}$ |
| ค172 | 103199－1 | 0．4 OHM 1W 5\％2512 T／R | H 6＊ |
| R174 | A11368－60432 | E04K OHM 0．125W 1\％CHIP 1206 | G $\mathrm{E}^{*}$ |
| R175 | A1136日－51111 | 5.11 K ロHM 0．10W 1\％CHIP | G $日^{*}$ |
| R176 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | G 8＊ |
| R177 | A1 1368－10021 | 10K 1／1日W 1\％CHIP 0805 | H $\mathrm{O}^{*}$ |
| R178 | A11368－98921 | 90．3K ロ．18W $1 \%$ CHIP 0B05 | N 9＊ |
| A178 | A11368－10231 | 100K ロ．1W 1\％CHIP 0日05 | F 7＊ |
| R1日0 | A11368－39231 | $392 \mathrm{~K} \mathrm{0.10W} 1 \%$ CHIP 0805 | G $\mathrm{B}^{*}$ |
| R181 | A11371－6814 | E日日 OHM 0．50W 5\％CHIP | 」 1＊ |
| R182 | A1136日－10621 | 10K 1／10W 1\％CHIP 0805 | F 8＊ |
| R183 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 0805 | F 8＊ |
| R184 | A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
| R185 | A1136日－10021 | 10K 1／1日W $1 \%$ CHIP 0805 | G 8＊ |
| R186 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | N 10＊ |
| R187 | A1136日－15日31 | 158K 0．10W 1\％CHIP DB05 | M 10＊ |
| R18日 | A1136日－15日31 | 15日K 0．10W 1\％CHIP 0日05 | N 10＊ |
| R189 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | M 10＊ |
| R190 | A11368－57621 | 57．6K 日．10W 1\％CHIP 0805 | N 6＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Referene Useony $\quad$ CROWN INTERNATIONAL INC．

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R191 | A11368－22601 | 226 OHM 0．10W 1\％CHIP 0805 | N 6＊ |
| R192 | A11368－68432 | 604K OHM 0．125W 1\％CHIP 1206 | L 9＊ |
| R193 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | N 9＊ |
| R194 | A11371－8201 | 日2 OHM 0．10W 5\％CHIP | M 7＊ |
| R195 | A11371－日211 | 820 OHM 0．10W 5\％CHIP | M 7 ＊ |
| R196 | A11388－18021 | 10K 1／10W 1\％CHIP 日日05 | M 9＊ |
| R197 | A1136日－51111 | 5．11K OHM 8．10W 1\％CHIP 0日05 | M 10 |
| R198 |  | OPEN | M 10 |
| R199 | A11371－0R02 | D．0 OHM JUMPER CHIP 1206 | N 日＊ |
| R200 | 102595－3 | POT．5K LIN 21 DNT 12 MM HORIZ | N 1 |
| R201 | A1136日－10011 | 1 K Q．10W $1 \%$ CHIP 0805 | K 10＊ |
| R202 | A11368－39231 | 392K 0．10w 1\％CHIP 0805 | L 9＊ |
| R203 | A11368－49901 | 499 OHM 日．10W 1\％CHIP 0日05 | L O＊$^{*}$ |
| R204 | A1136日－18021 | 10K 1／10W 1\％CHIP 0日05 | L 9＊ |
| R205 | A11371－8814 | E80 OHM 0．50W 5\％CHIP | M 1＊ |
| R20． | A1136日－10011 | 1 K 0．10W 1\％CHIP 0805 | 」 9＊ |
| R209 | A11368－19122 | 19．1K 0．125W 1\％CHIP 1206 | K 9＊ |
| R210 | A1136日－10011 | 1K 0．10W 1\％CHIP 0805 | 」 9＊ |
| R211 | A1136日－10日21 | 10K 1／10W 1\％CHIP 0805 | J 9＊ |
| R212 | A10265－19121 | $15.1 \mathrm{~K} \mathrm{0.25W} 1 \% \mathrm{MF}$ | J 9 |
| R213 | A1136日－51111 | 5.11 K OHM 日． 0 W 1\％CHIP 0日05 | 」 10＊ |
| R214 | A1136日－82511 | 日． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | J 10＊ |
| R215 | A1136日－6日121 | 58．1K 0．10W 1\％CHIP | 」10＊ |
| R216 | A1136日－22601 | 226 DHM 0．10W $1 \%$ CHIP 0805 | K $\mathrm{S}^{*}$ |
| R217 | A11371－3341 | 339K 0．10W 5\％CHIP 0805 | J 9＊ |
| R218 | A1136日－88111 | 6.81 K OHM 0．10W 1\％CHIP 0日B5 | K 10 |
| R219 | A11371－3333 | 33K 0．25W 5\％LHIP 1210 | 」 9＊ |
| R220 | A1136日－90921 | 90．SK 0．10W 1\％CHIP 8日05 | K 9＊ |
| R221 | A1 368－10021 | 10K 1／10W 1\％CHIP 0日05 | K 10 |
| R222 | A1136B－15831 | 158K 0．10W 1\％CHIP 0805 | K 9＊ |
| R223 | A11368－10031 | 100K 0．1W 1\％EHIP 0日B5 | K 9＊ |
| R224 | A1136日－15831 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 9＊ |
| R225 | A11368－10031 | 100K 0．1W 1\％CHIP 0905 | L 9＊ |
| F226 | A11368－49921 | 49．9K 0．1W $1 \%$ CHIP 0805 | K 9＊ |
| R227 | A11371－E日21 | 6．日K 0． $10 \% 5 \%$ CHIP 0805 | K 9＊ |
| R228 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | M 1＊ |
| R229 | A11371－8211 | 820 OHM D． 10 W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．18W 5\％CHIP | H 3＊ |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／A | J 7 |
| R235 | A11371－3923 | 3．9K $0.25 \mathrm{~W} 5 \%$ EHIP | 」 7＊ |
| R236 | A1 1371－8201 | 日2 OHM 0．10W 5\％CHIP | J 7＊ |
| R237 | A11368－49902 | 499 OHM ． $125 \mathrm{~W} 1 \% 1206$ T／R | K 8＊ |
| R23日 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A1136日－13703 | 137 OHM 0．25W 1\％EHIP | K 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

| THESE DRAWINS AND SPECIFICATIONS ARE AN <br>  |
| :---: |
|  |  |
|  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| AEF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R2410 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 OHM E． $10 \mathrm{~W} 5 \%$ CHIP | L 8＊ |
| R242 | 125478－1 | $3 . \mathrm{B} 3 \mathrm{KOHM} \mathrm{D.58W} \mathrm{1} \mathrm{\%} \mathrm{2010} \mathrm{T/R}$ | L 7＊ |
| R243 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K $8^{*}$ |
| P24 4 | A11371－1213 | 120 OHM 0.25 W 5\％CHIP | K $8^{*}$ |
| R245 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 日＊ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0B05 | 」 2＊ |
| R247 | A11371－1011 | 10日 OHM D． 1 OW 5\％CHIP 0日05 | 」 2＊ |
| R24日 | A11371－1811 | $180 \mathrm{OHM} \mathrm{D.10W} \mathrm{5} \mathrm{\%} \mathrm{CHIP}$ | K $2^{*}$ |
| R250 | A11371－5R63 | 5.6 0．25W 5\％CHIP | J 2＊ |
| R252 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 4＊ |
| R253 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 4＊ |
| R257 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 103199－1 | 0．4 DHM 1W 5\％ 2512 T／R | D $3^{*}$ |
| R260 | A11371－1501 | $15 \mathrm{OHM} 0.10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | D 1＊ |
| R261 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | E 2＊ |
| R262 | A11371－4701 | 47 OHM D．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1日11 | 180 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5.6 O．25W 5\％CHIP | E 2＊ |
| R267 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R26日 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 3＊ |
| R271 | 103199－1 | 0.4 DHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | H 4＊ |
| R272 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| f274 | A11368－60432 | 604 K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | E $8^{*}$ |
| R275 | A11358－51111 | 5.11 K OHM 日．18W $1 \%$ CHIP 0日05 | E $日^{*}$ |
| R276 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | E 8＊ |
| R277 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | E 8＊ |
| R27日 | A1135日－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| R279 | A1136日－10031 | 100K $0.1 \mathrm{~W} 1 \% \mathrm{CHIP}$ D日05 | E 7＊ |
| R280 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | E 日＊ |
| R281 | A11371－6日14 | 680 DHM D．50W 5\％CHIP | M 1＊ |
| R2日2 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | D $8 *$ |
| R283 | A11368－10031 | 100K D． $1 \mathrm{~W} 1 \%$ CHIP 0805 | E $日^{*}$ |
| A284 | A11368－20023 | 20K $0.25 \mathrm{~W} 1 \%$ EHIP 1210 | F 9＊ |
| F2日5 | A11368－10021 | 10K 1／10W 1\％EHIP 0日05 | F 日＊ |
| R2B6 | A11368－10831 | 100K 0．1W $1 \%$ CHIP 0日05 | L 10＊＊ |
| R2日7 | A11368－15831 | 15日K 0．10w 1\％CHIP 0日05 | K 10＊ |
| R2日8 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | K 10＊ |
| R2日9 | A1 136日－10031 | 100K 0．1W $1 \%$ CHIP 0805 | K 10＊ |
| R290 | A11368－57621 | 57．6K 日． $10 \mathrm{~W} 1 \%$ CHIP 0005 | N 3＊ |
| R291 | A11358－22601 | 226 OHM 0．10W 1\％CHIP D805 | N 3＊ |
| R292 | A1135日－60432 | 504K DHM 0．125W $1 \%$ CHIP 1208 | 」 ＊＊$^{\text {＊}}$ |
| R293 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0805 | K $9^{*}$ |
| R294 | A11371－8201 | 82 OHM D．10W 5\％CHIP | 」 $7 *$ |
| R295 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | 」 7＊ |
| R296 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0805 | K 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
THESE DAAWINGS AND SPECIFICATIONS ARE THE PROPEAYY OF CROWN INTEANATIONAL，INCE ANE AS THE GASIS FOR THE MANUFACTURE GR SALE
OF APPAAATUS OA DEVICES WITHOUT PEAMISSION

CROWN INTERNATIDNAL INC．
1718 west mishawaka road elkmaat，indiana 4E517 Phone 12191 294－gege


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R297 | A11368－51111 | 5．11K OHM 0．10W 1\％CHIP 0805 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－0R02 | 0.0 OHM JUMPER CHIP 1205 | K 日＊ |
| R300 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D 6＊ |
| R301 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | 」 6 ＊ |
| R302 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／A | K 5＊ |
| R305 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 6＊ |
| R306 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R307 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R30日 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R311 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R312 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I 6＊ |
| R313 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | G 7＊ |
| R314 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | G $7 *$ |
| R315 | A1136日－51111 | 5.11 K ロHM 0．10W 1\％CHIP 0日05 | H 7＊ |
| R316 | A1136日－10011 | 1 K Q．10w $1 \%$ CHIP 0805 | M 10＊ |
| R317 | A11371－3934 | 39 K OHM 0．5日W 5\％CHIP 1210 | N 8 |
| R318 | A11371－3934 | 35 K OHM D．50W 5\％CHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 180 OHM ． 25 W 5\％ 1210 SMT T／R | L 9 |
| R323 | A11371－0RD2 | 0.0 OHM JLMPER CHIP 1206 | 68 |
| R400 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R401 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 1 4＊ |
| R402 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R405 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 4＊$^{*}$ |
| R406 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| R407 | 103199－1 | 0．4 OHM 1 W 5\％ 2512 T／R | E 4＊ |
| R40日 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R411 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 4＊ |
| R412 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | I 3＊ |
| R413 | A1 1368－10021 | 10K 1／18W 1\％CHIP D805 | E ${ }^{*}$ |
| R414 | A11371－3341 | 330K 0．10w 5\％CHIP 0805 | E 7＊ |
| R415 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0日05 | E 7＊ |
| R415 | A1 1368－10011 | 1 K 日．10W $1 \%$ CHIP 8日05 | K 10＊ |
| R417 | A11371－3934 | 39 K OHM D．50W 5\％CHIP 1210 | K 7 |
| R419 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | $K 8$ |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 OHM ． 25 W 5\％ 1210 SMT T／R | J 9 |
| R423 | A11371－ERD2 | Q． 0 OHM JUMPER CHIP 1206 | F 8 |
| 51 | 1024日年1 | SPDT HORIZ SLIDE | L 10 |
| 52 | C 7325－1 | $2 P 2$ POS．PC SLIDE SW． | L 10 |
| TP38 | C 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | C 9896－9 | TEST POINT LOOP | N 7 |
| U1 | ᄃ 5095－2 | POS． 15 VOLT REG． | H 10 |
| U1 $\times$ | C 9918－1 | TO22E VERT CLIP－ON HEATSINK | H 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |  |
| :---: | :---: | :---: | :---: | :---: |
| U2 | C 5056－0 | NEG． 15 VOLT REG． | H 9 |  |
| ப2x | C 991日－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |  |
| ப3 | 102485－1 | OPTO BJT NPN SQIC－8 CTR $=100 \%$ | N 10 |  |
| U4 | C 日262－5 | MC33078D DUAL LO NOISE OP AMP | 19 |  |
| U5 | ᄃ 1262－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |  |
| ப100 | 102723－2 | OPTO CELL ON＝506 OHM | M 9 |  |
| U101 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |  |
| ப102 | C 903日－8 | COMPARATOR，QUAD LM339D 50－14 | N 9 |  |
| ப104 | C 903日－8 | COMPARATOR，QUAD LM339D SD－14 | G 7 |  |
| U105 | C 日262－5 | MC33078D DLAL LQ NOISE OP AMP | F 7 |  |
| ப106 | 1276日3－1 | SENSOR，CE THERMAL | N 6 |  |
| U200 | 102723－2 | OPTO CELL ON－500 OHM | K 9 |  |
| ப201 | C 9012－3 | MC33079D ULAD LO NOISE OP AMP | J 10 |  |
| ப202 | C 903日－8 | COMPARATOR，QUAD LM339D 50－14 | K 9 |  |
| ப20 4 | C 903日－8 | COMPARATOR，QUAD LM339D SD－14 | E 7 |  |
| U205 | C 8262－5 | MC33078D DUAL LO NDISE OP AMP | E 7 |  |
| U206 | 127683－1 | SENSOR，CE THERMAL |  |  |
| WP 1 | A1137日－A050U | WIRE，16 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | 103331－N050R | WIRE， 16 BLK／WHT TAB $\times 5 \times$ T | A 9 |  |
| WP3 | A11379－C0504 | WIRE， 16 BLU FAST $\times 5 \times$ TERM | A 9 |  |
| WP 4 | 101031－1 | 250 FASTON．AUTO INSERTABLE | D 7 |  |
| WP5 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D 4 |  |
| WP6 | 127442－1 | PREP．CE HI－V WIRE | J 8 |  |
| WP7 | 101031－1 | 250 FASTON．AUTO INSERTABLE | D $\theta$ |  |
| Z1 |  | OPEN | E 9 |  |
| 1 | 102138－9 | PWE，CE1000／CE200® MAIN／INPU | SEE COMP | MAP |
| 2 | 101016－1 | L日L．日ARCODE，． | SEE COMP | MAP |
| 3 | 125242－1 | CAP．． $625 \mathrm{ID} \times 1^{\prime \prime}$ VINYL | SEE COMP | MAP |
| 4 | 126日25－1 | SILICONE．CLEAR 3OZ SYRINGE | SEE COMP | MAP |
| 5 | 1254日2－1 | ADHESIVE LOCTITE 3 B4 OUTPLT | SEE COMP | MAP |
| 6 | 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | SEE COMP | MAP |
| 7 | 1231日0－1 | BUMPER，0．4＂TALL 日LK W／ADH | SEE COMP | MAP |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |



## Component Map

for use with
Main PWA 127321-2

$$
\text { SEE NOTE } 12
$$



> APFLY RTV (4)TO THE INSIDE of black vinyl cap (3) then

- output epoxy(5)(6) Place cap over l202

HEATSINKS HS1, HS2.

## $\underset{\text { INACTIVE }}{\text { Roreferce Use Only }}$

$\longrightarrow-P W B$
$\xlongequal{\text { DETAIL } \operatorname{SCALE}!1}$


6



INACTIVE



## NOTES：

1．SCHEMATIC DRAWING NLMEER 102142.
2．PWB GART NUMEER 16213日－9．
3．THE PWA SHALL MEET THE IPC－A－518＿CLASS 25 TANDARDS．
4．ALL LEADS SHALL EE TRIMMED TO 0．093＊OR LES5．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
6．COMPONENTS THAT HAVE（ $k$ ）AFTER THEIR MAP LOCATION ARE MOUNTED ON THE GOTTOM SIDE OF THE PGINTED CIRCUIT GDARD．
7．REMDVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES．
日．THE VENT MOLE ON TOP OF THE RELAYS K1DD AND KZDO MUST 日E OPENED after the cleanjng process，by either removing the sealing tape OR EUTTING OFF THE CIACULAR TAB WITH AN＂EXACTD＂KNIFE OR SIMULAA LUTTING TOOL．WARNING．THIS STEP MUST 日E DONE AFTER THE CLEANING PROCESS NOT 日EFDRE！！！WATER OR CLEANING SQLVENTS ENTEAING THE RELAY VENT HOLE WILL DAMAEE THE RELAY．
9．CONNECT THE WIRES THAT COME FROM Q123 AND 0223 TO WP4 AND WPS RESPECTIVELY．
1日．THE PWA PAFT NUMBER FOR THJS MODLLE SHALL EE MARKED ON THE P．C．BDARD AND 5HALL BE PERMANENT，USE A LABEL TO COVER UP THE DLD PWA NUMEERS AND AFFIX THE NEW PWA NUMGER．
11．INSTALLATION OF LIDG AND U20G IS AS FDLLOWS：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTDR H42902－9
118 ．EEND YRANSISTOA AT 90 DEG．FLAT SIDE DOWN
11C．PLACE TRANSISTOR INTO THE FW日 AS SHOWN ON THE COMPONENT MAP DETAIL E．
11D．MIX OUTPUT EPGXY AND ACLELERATOR TOGETHER． APPLY THE MIXTURE TD THE TRANSISTOR AND HEATSINK．
THE MiXTUAE MLIST FILL TME MEATSINK RDLE AND THE
leads df the device，esfecially the center lead．
（NOTE：NO VISIELE AIR GAPS AROLND THE TRANSISTOR
AND THE TAANSISTOR \＆EADS CANNOT TOUCH THE HEATSINK）
1iE．HOLD THE TRANSISTOR AGAINST THE HEATSINK LNTIL EPOXY SETS－UP
12．TORQUE 6－32 HEX NUTS（CPN AI1056－1）AS FOLLOWS：
12A．FRE－WAVE TORQUE OF 4－6 INCH LES．
128．POST－WAVE AND WHEN ASSEMELY HAS COOLED DOWN TO HANDLINE TEMPERATURE TOROLE DF 13 －15 INCH LBS．
13．INSTALL 33 CONNECTOR AS SHOWN ON COMPONENT MAF
14．INSTALL R32X AS FOLLOWS：
BEND THE RESISTOR LEADS AT SO DEGREES TO THE GODY．
PLACE R3ZX WITH THE ELEMENT AWAY FROM Ci
SOLDEA R32X LEADS TO R32 AND R34 PADS SMD 5 TYLE．
SEE DETAIL E FOR CLARITY．
15．INSTALL SZ WITH THE SWITCH EAT FACING AWAY FROM REAR
EDGE OF THE BOAPD．SEE SHEET 20 COMPONENT MAP FOR
CLARITY．


INACTIVE
For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A1082日－7 | 6－32 $\times .525$ PCB EAPTIVE STUD | 8 | HW9．HW1 0 ，HW1 1，HW1 2，HW1 3，HW1 4． |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K 0．25W $1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104JD | 0.1 MF 250V 5\％MTL POLY | 2 | C11日．C21日 |
| A11056－1 | 6－32 HEX NபT W／BELLEVILLE | $\theta$ | HW1 7．HW1日．HW1 9，HW2 ${ }^{\text {d，HW2 }}$ ． |
|  |  |  | HW22．HW23．HW2 4 |
| A11368－18011 | 1K 0．10W 1\％CHIP D日⿹勹5 | 日 | R101，R106．R110，R20，R20゙6． |
|  |  |  | R21日．R316．R416 |
| A1136B－10021 | 10K 1／10W 1\％CHIP 0805 | 23 | R9，R104．R107．R108，R111． |
|  |  |  | R121．R176．R177．R1最2．R185． |
|  |  |  | R193．R196，R204，R211，R221． |
|  |  |  | R276．R277．R282．R2日5．R293． |
|  |  |  | R296．R313．R413 |
|  |  |  |  |
|  |  |  |  |
| A1135日－10031 | 100K 0．1W 1\％CHIP 0日05 | 15 | R25，R30，R31．R123，R125．R179． |
|  |  |  | R183．R186．R183，R223，R225． |
|  |  |  | R279，R283，R286，R2日9 |
| A1136日－10221 | 10．2K 0．10W 1\％CHIP 0日0S | 2 | R11日，R21日 |
| A1135日－10703 | 107 OHM 0．25W 1\％CHIP | 2 | R139．R239 |
| A11368－12121 | $12.1 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{DAD5}$ | 1 | R21 |
| A $11368-15082$ | 150 OHM 0．125W 1\％EHIP | 2 | R137，R237 |
| A1136日－15831 | 15日K 0．10W 1\％CHIP 0805 | 日 | R122，R124．R1日7，R188．R222， |
|  |  |  | R224，R287．R2日8 |
| A1 1368－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 120 E | 2 | R109，R209 |
|  | 20K 0．1W 1\％D日05 T／R | 1 | R27 |
| A1136B－20021 | 20K 0．25W 1\％CHIP 1210 | 3 | R1D．R184，R284 |
| A1136B－20023 | 226 DHM D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 4 | R116．R191．R216．R291 |
| A11368－22601 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0805 | 6 | R22． $223 . \mathrm{R} 102$ ，R180． 2202 ，R280 |
| A1136B－49901 | 499 OHM 0．10W $1 \%$ CHIP 0805 | 2 | R103．R203 |
| A1136日－49921 | $49.9 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 2 | R126，R226 |
| A1138日－51111 | 5.11 K OHM 0．10W $1 \% \mathrm{CHIP} 0805$ | 6 | R113，R175．R213．R275．R315．R415 |
| A11368－57621 | 57.6 K 0．10W 1\％CHIP 0805 | 4 | R20．R24．R190．R290 |
| A11368－60432 | 604K OHM D． 125 W 1\％CHIP 1206 | 4 | R174，R192．R274．R292 |
| A113E8－61911 | 6．19K 0．10W 1\％CHIP 0805 | 2 | R197，R297 |
| A1136日－58121 | 5B． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ EHIP | 3 | R12．R115．R215 |
| A11368－69811 | 6.98 K OHM 0．10W $1 \%$ CHIP 0805 | 1 | R5 |
| A11368－75R03 | 75 OHM 0．25W 1\％CHIP 1210 | 2 | R145，R2 45 |
| A1136日－71511 | 7.15 K OHM 0．10W 1\％CHIP 0805 | 1 | R1日 |
| A11368－82511 | 8．25K 0．1W 1\％CHIP 0日05 | 3 | R17．R114．R214 |
| A11368－90921． | 90．9K 0．10W 1\％CHIP 0805 | 4 | R120，R17日，R220，R27日 |
| A1136日－93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0日®5 | 1 | RE |
| A11369－102J2． | Q． 001 LF 50V 5\％NPO MLC 0805 | 2 | C134．C234 |
|  |  |  |  |
| A11369－270k2 | 27PF 50V 10\％NPQ 0日05 T／R | 2 | C107，С207 |
| A11369－330， 2 | 33PF 50V 5\％NPO MLC 0805 | 2 | C142．c242 |
| A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | 4 | C110．C141．C210．C241 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
CROWN INTERNATIUNAL INC．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESERIPTIDN | QTY | REFERENCE DESIGNATIDN |
| A11371－DRD2 | 0． 0 OHM JUMPER CHIP 1206 | 4 | R199．R293．R323．R423 |
| A11371－0R21 | 0.2 DHM D． $10 \mathrm{~W} 5 \%$ CHIP 0B05 | 3 | R14，R15，R33 |
| A11371－1811 | 180 DHM 日．10W 5\％CHIP 日日05 | 3 | R13，R147，R247 |
| A1 1371－1013 | 18日 OHM．25W 5\％1210 SMT T／R | 2 | R322，R422 |
| A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | 1 | RB |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R13B．R144，R23日．R244 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日® 5 | 4 | R146，R161．R246，R261 |
| A11371－1501 | 15 OHM Q．10W 5\％CHIP | 2 | R160，R260 |
| A11371－1811 | 1日0 OHM 日．10W 5\％LHIP | 4 | R149，R153，R248，R253 |
| A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | 2 | R132．R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 2．25W 5\％CHIP | 2 | R4．R19 |
| A11371－3333 | 33K 日．25W 5\％CHIP 1210 | 6 | R119，R140，R143，R219，R240．R243 |
| A11371－3341 | 330K 日．10W 5\％CHIP 0日®5 | 7 | R3．R11．R26．R117．R217．R314． |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | 4 | R317．R31日，R417．R41日 |
| A11371－4781 | 47 OHM 0．10W 5\％CHIP | 2 | R162．R262 |
| A11371－4724 | 4．7K OHM 0．50W 5\％CHIP 2010 | 2 | R142．R242 |
| A11371－5R63 | 5．6 0．25W 5\％CHIP | 4 | R150．R165，R250．R265 |
| A11371－5RE5 | 5．6 OHM 1W 5\％LHIP 2512 | 2 | R420．R421 |
| A11371－6日14 | 6BQ DHM D．50W 5\％CHIP | 6 | R105．R12日，R181．R205．R22日．R281 |
| A11371－6日21 | 6．BK D．10W 5\％EHIP ロBQ5 | 2 | R127．R227 |
| A11371－7511 | 750 OHM $0.10 W 5 \%$ LHIP | 3 | R2日，R133，R233 |
| A11371－B201 | B2 DHM D．10W 5\％LHIP | 4 | R136，R194，R236，R294 |
| A11371－8211 | 820 DHM 0．10W 5\％LHIP | 5 | R129，R141．R195，R229，R241．R295 |
| A11378－AD5DU | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP 1 |
| A11379－C050ப | WIFE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | 0．01MF 50V 10\％CHIP 日E®5 | 4 | ［109．ᄃ1 11．c209，C211 |
| A11427－103K5 | ロ． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R}$ 1206 | 2 | C143．5243 |
| A11427－104K2 | 0.1 MF 50V 10\％0B05 | 30 | ［2，С6，C7，ᄃ12，ᄃ24，C25，ᄃ2，С29， |
|  |  |  | C115，С122．С126．С127．С12日． |
|  |  |  | ᄃ129．С130．С131．ᄃ132．ट133． |
|  |  |  | C139，C215．c222．c226，C227． |
|  |  |  | ᄃ228．ट223．ᄃ230．C231．ᄃ232． |
|  |  |  | C233．С239 |
| A11427－123K2 | D．012 MF 50V 10\％CHIP | 2 | ［112．ᄃ212 |
| A11427－272K2 | 2700PF 50V 10\％LHIP 0805 | 2 | C117．C217 |
| A11427－472K2 | 470ロPF 50V 10\％X7R ロB®5 | 4 | C116．C119．C216．C219 |
| A12125－3140K | WIRE， 22 WHT 3／1G×14 $\times$ FAST | 1 | WP6 |
| C 2851－1 | 1 N40®4 SILICON RECT． | 7 | D1，D2，D3，D4，D6，D7．D10 |
| C 3510－2 | CHOKE，470UH 10\％AXIAL | 4 | L． 1 D，L101．L20日．L201 |
| C 3549－0 | DIODE ZENEF， $10 \mathrm{~V}, 1 \mathrm{N5240B}$ | 1 | DB |
| C 3679－5 | 33LF 5BV 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | ［4． 55 |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| C 5095－2 | POS． 15 VOLT REG． | 1 | ப1 |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | ப2 |
| C 5382－5 | 2.2 MF 5 EV VERT | 1 | ［27 |
| ᄃ 6802－0 | 47 MF 50 V AX CERM | 2 | C102． 2202 |
| C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{LHIP} 1286$ | 3 | ᄃ22．ᄃ140．ᄃ240 |
| c 7325－1 | 2P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 744日－1 | MMET3904 CHIP NPN | 5 | 0100．0101，0129，0200．0201．0229 |
| C 日262－5 | MC33078D DUAL LO NOISE OP AM | 4 | U4．U5．U105．U205 |
| C 8576－8 | 100 MF 35 V 10\％ELEC | 1 | ᄃ26 |
| ᄃ 9012－3 | MC33079D QUAD LD NOISE OP AM | 2 | U101．U201 |
| C 903日－8 | COMPARATOR．QUAD LM339D Sロ－1 | 4 | ப102．ப104．ப202，U204 |
| C 9157－6 | $100 \mathrm{UF} 16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD $\mathrm{T} /$ | 2 | C123． 2223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | 0104.0204 |
| C 9283－0 | DIODE，1N914／1N414B 50T－23 S | 56 | D9，D13，D101．D102，D103，D104． |
|  |  |  | D105．D105．D107．D108．D109． |
|  |  |  | D110．D111．D112．D113．D118． |
|  |  |  | D117．D11日．D119．D12日．D121． |
|  |  |  | D122．D123，D124，D125，D126， |
|  |  |  | D127．D12日，D129，D130．D201． |
|  |  |  | D202．D203，D204．D205，D206． |
|  |  |  | D207．D20日．D209，D210．D211． |
|  |  |  | D212．D213．D216．D217．D21日， |
|  |  |  | D221．D222．D223．D224．D225． |
|  |  |  | D228，D227，D22日，D229，D230 |
| ᄃ 9855－9 | TEST POINT LOOP | 2 | TP38，TP39 |
| C 991日－1 | TO220 VERT ELIP－ON HEATSINK | 2 | ப1 $\times$ ． $42 \times$ |
| C 9331－4 | MMAT50日7LT 1 PNP XSISTOR SOT－ | 6 | Q102．0109．0111．0202．0209．0211 |
| C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 4 | C121．С124，C221．c224 |
| C1020日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VEAT ELEE | 2 | C105．c205 |
| c10422－1 | DIODE，3A 400V 1 N 5404 AXIAL | 4 | D114．D115．D214．D215 |
| Ci0613－5 | 1 K TOP ADJUST TAIMMER T／R | 2 | R134，R234 |
| D 8917－3 | 日200UF 110VDC ELECTROLYTIC | 2 | C2日．c21 |
| H42902－9 | ASM．THERMML SENSE | 2 | ப106．ப206 |
| 101016－1 | LBL，BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON，AUTO INSERTABLE | 3 | WP4，WP5，WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 PQS． 1 CTR MTA SHRD | 1 | 12 |
| 101993－1 | JACK，6P4 COND MODULAR R／A | 1 | $J 5$ |
| 102138－9 | PWB，CEIDQQ／LE20日Z MAIN／INPU | 1 | 1 |
| 102438－101k2 | 10QPF 20ロV 10\％NPO Q日Q5 | 6 | C104．C120，С135，C204．C220，C235 |
| 102438－560k2 | 56PF 280V 18\％NPD 0805 | 2 | C105．С206 |
| 102438－820K2 | 日2PF 200V 10\％NPO 0805 | 4 | C108．C13日，C20日，C23日 |
| 102465－1 | 47LF 50V 20\％RADIAL T／R | 2 | C181．c201 |
| 102466－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102467－1 | 22MF 25V 20\％RAD T／R | 2 | C103．c203 |
| 102468－1 | 47UF 10V $20 \% \mathrm{NP}$ RAD $T / R$ | 4 | C113．C114，C213．C214 |
| 102470－1 | INDUCTOR．2．75UH 11A RADIAL | 2 | L102．L202 |
|  |  |  |  |
| 102472－3 | HDR．16POS ． 190 ETR SGL ROW | 1 | $J 3$ |

## INACTIVE

For Reference Use Only


PARTS LIST

| C．P．N． | DESCRIPTIDN | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| 102473－1 | SPEAKON． 4 POLE PCB HORZ | 2 | J100，J200 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1，E101，E201 |
| 102477－1 | LED．SMT R／A RED | 4 | E100．E102．E20日，E202 |
| 102478－1 | TRIAC DRIVER S8S EV THRESH | 2 | 0132，0232 |
| 102479－1 | PWR MJD1 12 NPN DARLINGTON 10 | 3 | 01．Q2． 03 |
| 102480－1 | FET，N－CH 25V 50MA SOT－23 | 2 | प133．0233 |
| 1024日1－1 | NPN 25V LOW NOISE 5OT－23 | 2 | 0108． 020 ロ |
| 102483－1 | PNP 300V 500MA SOT－23 | 2 | Q103．0203 |
| 10248E－1 | DPTD BJT NPN sOIC－日 CTR＝100 | 1 | U3 |
| 10248B－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 192573－3 | HS ASM．T2 ISOLATED CH1， | 1 | H53 |
| 102574－3 | HS ASM，T2 ISOLATED CH2，， | 1 | HS4 |
| 102575－3 | HS ASM．T2 NON－ISOLATED CH1， | 1 | HS 1 |
| 102576－3 | HS ASM．T2 NON－ISOLATED EH2． | 1 | HS2 |
| 102578－1 | SPACER． $6 \times .125 \mathrm{AL}$ BLK ANODIZ | 日 | HW1．HW2，HW3，HW4．HW5，HWG．HW7， |
|  |  |  | HWB |
| 102595－3 | POT，5K LIN 21 DNT 12 MM HORI | 2 | P100，R200 |
| 102723－2 | OPTO EELL ON－500 OHM | 2 | U10日， 4200 |
| 103180－1 | ELMPER． 0.4 ＂TALL BLK W／ADH | 3 | 7 |
| 103191－1 | Q．47JF Z5U 1210 20\％59V | 2 | C144．c244 |
| 103192－1 | NPN 30DV 5DQMA 50MHZ SOT－223 | 4 | Q107．0110．0207．0210 |
| 103133－1 | PNP 30日V 500MA 50MHZ 50T－223 | 4 | Q105．Q120．0205．0220 |
| 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{F}$ | 54 | R1，R7，R152，R153，R154，R155． |
|  |  |  | R156．R157．R159，R167．R168． |
|  |  |  | R169，R170．R171．R172．R252． |
|  |  |  | R253，R254，R255，R25E，R257． |
|  |  |  | R259，R267，R268，R269，R270， |
|  |  |  | R271，R272，R300，R301，R302， |
|  |  |  | R303，R304，R305，R306，R307， |
|  |  |  | R308，R309，R310，R311，R312． |
|  |  |  | $\mathrm{R} 4 \mathrm{DO}, \mathrm{R} 4 \mathrm{D}$ ，R402，R403，R404． |
|  |  |  | R405，R406，R407，R40日，R409， |
|  |  |  | R410，R411，R412 |
| 103210－1 | 2．2UF 160V RADIAL T／R | 4 | ᄃ136，¢137．c235，¢237 |
| 183331－N050R | WIRE，16 BLK／WHT TAB $\times 5 \times$ T | 1 | WP2 |
| 125106－1 | MACSD 日 AMP 40DV TRIAC | 2 | Q131，Q231 |
| 125242－1 | CAP．． $6251 D \times 1{ }^{\prime \prime}$ VINYL | 1 | 3 |
| 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | $\square$ | 5 |
| $125483-1$ | ALTIVATOR LOCTITE＂OLTPUT＂ | $\square$ | 6 |
| 125508－1 | 1 ULF 5日VDC ELECTROLYTIC SMD | 2 | 23． 230 |
| 126317－1 | REL． 30 A 24 V SPST PCB W／FAST | 2 | K1ロ0，$\times 200$ |
| 126825－1 | SILICONE．CLEAR 3OZ SYRINGE | 0 | 4 |
| 127229－1 | RES． 1100 OHM 5W 5\％THICK F | 1 | R32X |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| EADWN IN |  |  | NTERNATIDNAL <br> ELKHART，INDIANA 4ES17 <br> PHENE |  | INC． <br> （219）294－8966 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DRAMN | JAW | 22／23／g9 | DWE．NO． | SHEET | 5 JF 21 | REV |
| PROJ． |  | 390d0 |  | － |  |  |

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| ᄃ1 | 102466－1 | 10UF 250V 20\％RADIAL T／R | 」 8 |
| ᄃ2 | A11427－104K2 | 0.1 MF 50V 18\％0805 | F 9＊ |
| C3 | 12550日－1 | 10 LF SQVDC ELECTROLYTIC SMD | I 8 |
| C4 | C 4477－3 | 470 MF 35V VERT | 610 |
| C5 | C 4477－3 | 470 MF 35 V VERT | G 9 |
| CE | A11427－104K2 | 0．1 MF 50V 10\％0日05 | H 10＊ |
| C7 | A11427－104K2 | 0． 1 MF 50V 10\％ 0805 | H 9＊ |
| C12 | A11427－104K2 | 0.1 MF 50V 18\％0805 | I 9＊ |
| C20 | D 8917－3 | 日200UF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 8200UF 110VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | N 9＊ |
| C24 | A11427－104K2 | 0． 1 MF 50V 10\％ 0805 | N 9＊ |
| C25 | A11427－104K2 | 0．1 MF 50V 10\％0805 | $09^{*}$ |
| C26 | C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | I 9 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10 |
| C28 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | 」 9＊ |
| C29 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | I 9＊ |
| C30 | 125508－1 | 1 DUF 50VDC ELECTROLYTIC SMD | I 8 |
| ［31 | C 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| CiD1 | 102455－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| C102 | ᄃ 6802－8 | 47 MF 5QV AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 20\％RAD T／R | M 9 |
| C104 | 102438－101k2 | $100 P F 200 V 10 \% \mathrm{NPO} 0905$ | M 9＊ |
| C105 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | ᄂ 9 |
| C106 | 102438－550K2 | 56PF 200V 10\％NPO 0805 | L 9＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPQ 0日B5 T／A | L 9＊ |
| ᄃ108 | 10243日－820K2 | 92PF 200V 10\％NPO 0805 | L 10＊ |
| C109 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0805 | H 6＊ |
| C110 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | M $7 *$ |
| C111 | A11427－103K2 | 0.01 MF 50 V 10\％［HIP 0805 | N 8＊＊ |
| C112 | A1 1427－123K2 | $0.012 \mathrm{MF} \mathrm{50V} 10 \% \mathrm{CHIP}$ | 0 8＊ |
| C113 | 102468－1 | 47UF $10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | N 8 |
| C114 | 102468－1 | 47பF 10V 20\％NP RAD T／R | N 8 |
| C115 | A11427－\｛04K2 | D． 1 MF 50V 10\％0日ES | N ${ }^{*}$ |
| C116 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 270日PF 50V 10\％LHIP 0805 | I $7 *$ |
| C118 | A10434－104JD | 0． 1 MF 250V 5\％MTL POLY | I 8 |
| C119 | A11427－472K2 | 470ひPF 50V 10\％$\times 7 \mathrm{R}$ 8日05 | $17^{*}$ |
| C120 | 10243日－101K2 | 100PF 208V 10\％NPO 8日05 | I 7＊ |
| C121 | C10195－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \%$ RAD T／A | 6 日 |
| C122 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | F 8＊ |
| C123 | C 9157－6 | 10QUF 16V 20\％NP ELEC RAD T／R | F 日 |
| C124 | C10195－1 | 2． 2 MF 50 V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | D． 1 MF 58V 10\％0805 | N 10＊ |
| C127 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N 9＊ |
| C12日 | A11427－104K2 | 0． 1 MF 50V 10\％DBES | M 10＊ |
| C129 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C 130 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H $8^{*}$ |
| C131 | A 11427－104K2 | 0.1 MF 50V 10\％D日05 | H 7＊ |
| C132 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | F 7＊ |
| $[133$ | A1 1427－104K2 | D． 1 MF 50V 10\％0a85 | F $\mathrm{B}^{*}$ |
| C134 | A1 1369－102J2 | 0．D01LF 50V 5\％NPO MLC ロB05 T／ | M 7 ＊ |
| C135 | 12243日－101k2 | $10 \square P F 20 \square V 10 \% ~ N P O ~ D 8 Q 5 ~$ | N 7＊ |
| C136 | 103210－8 | 2．2UF 160 V RADIAL T／R | I 7 |
| C137 | 103210－1 | 2．2UF 160 V RADIAL T／R | 17 |
| C138 | 10243日－820K2 | 日2PF 200V 10\％NPQ 08D5 | M 7＊ |
| C133 | A11427－104K2 | D． 1 MF 50V 10\％0日0S | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 58 V CHIP 1285 | L 9 |
| C141 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | N 10 |
| C142 | A11369－330J2 | 33PF 50V 5\％NPO MLC D日05 | M 10 |
| C143 | A11427－103K5 |  | M 9＊ |
| C144 | 183191－1 | 0.47 UF 25U $121020 \% 50 \mathrm{~V}$ | G 7 ＊ |
| C201 | 122465－1 | 47UF 50V 20\％RADIAL T／A | 」 9 |
| C202 | C 6日日2－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF $25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/A}$ | K 9 |
| C204 | 102438－101K2 | 100PF 200V 18\％NPO 0日®s | 」 ®＊$^{*}$ |
| С205 | C1020日－4 | 108 MF $25 \mathrm{~V} 20 \%$ VERT ELEC | J 9 |
| C206 | 10243日－560K2 | 56PF 208V 10\％NPO 0805 | 」 9＊ |
| C207 | A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | 」 ＊$^{\text {d }}$ |
| C208 | 10243日－82日K2 | 82PF 200V 10\％NPO 0905 | 」10＊ |
| C209 | A11427－103K2 | D． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ टHIP 08®5 | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | K ${ }^{*}$ |
| C211 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | K 7＊ |
| C212 | A11427－123K2 | 0.012 MF 50 V 10\％CHIP | L 日＊ |
| C213 | 10246日－1 | 47LF 10 V 20\％NP RAD T／R | $K$ |
| C214 | 102468－1 | 47UF 10V 20\％NP RAD T／R | K 8 |
| C215 | A11427－104K2 | 0．1 MF 50V 18\％0885 | K 8＊ |
| C216 | A11427－472K2 | 470ロPF 50V 10\％×7R 0885 | J 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 0日05 | D 1＊ |
| C218 | A10434－104」D | $0.1 . \mathrm{MF} 250 \mathrm{~V}$ 5\％MTL POLY | I 1 |
| C219 | Al1427－472K2 | 4700PF 50V 10\％×7R 0B05 | E 1＊ |
| C220 | 10243日－101K2 | 10DPF 200V 10\％NPO DQ日5 | D 2＊ |
| C221 | C10198－1 | 2．2MF 50V 20\％RAD T／R | E 8 |
| C222 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | E 8＊ |
| C223 | C 9157－5 | $100 \mathrm{LF} 16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． 2 MF S0V $20 \% \mathrm{RAD}$ T／R | J 9 |
| C226 | A11427－104K2 | 0.1 MF 50V 10\％0805 | K 10＊ |
| C227 | A1 1427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 18 \% 0805$ | K 9＊ |
| C22日 | A11427－104K2 | D． 1 MF 50V 10\％0a05 | 」 $10 *$ |
| C229 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | 」 ＊$^{*}$ |
| C230 | A11427－104K2 | 8． 1 MF 50V 10\％0805 | E 8＊ |
| C231 | A11427－104K2 | D． 1 MF 50V 10\％0805 | E 7＊ |
| C232 | A11427－104K2 | 0.1 MF 50V 10\％0805 | E 7＊ |
| C233 | A11427－104K2 | 0.1 MF 50V 10\％0805 | D 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Onily


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C234 | A11369－102J2 | 0.001 UF 50 V 5\％NPO MLC D日05 T／ | 」 $7^{*}$ |
| C235 | 10243日－101K2 | 100PF 200V 10\％NPO 0805 | 」 2＊ |
| C236 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| С23日 | 102438－620K2 | 日2PF 200V 10\％NPD D905 | J 7＊ |
| C．239 | A11427－104K2 | Q． 1 MF 50V 10\％0日05 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V LHIP 120 E | 」 9 |
| C241 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | L 10 |
| C242 | A11369－330． 2 | 33PF 50V 5\％NPO MLC 0805 | K 10 |
| C243 | A11427－103K5 | 0．01MF 50V 5\％×7R 1206 | K 9＊ |
| C244 | 103191－1 | 0．47UF Z5U 1210 20\％50V | E 7 ＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| D1 | C．2851－1 | $1 \mathrm{N4OD} 4 \mathrm{SILICON} \mathrm{RECT}$. | G 9 |
| D2 | C 2851－1 | 1 N40®4 SILICON RECT． | G 10 |
| D3 | C 2851－1 | 1 N40B4 SILICON RECT． | $\square 10$ |
| D4 | C 2851－1 | 1N40®4 SILIEON RECT． | G 10 |
| D6 | C 2851－1 | 1 N40®4 SILICON RECT． | 」 8 |
| D7 | C 2851－1 | 1 N 4004 SILICON RECT． | J 8 |
| D8 | ᄃ 3549－0 | DIODE ZENER，10V，iN5240日 | 」 8 |
| D9 | C 5283－0 | DIODE，1N914／1N414日 SOT－23 SMT | I 9＊ |
| D10 | C 2851－1 | IN4084 SILICON RECT． | I 10 |
| D13 | C 92日3－0 | DIODE，iN914／1N414日 SOT－23 SMT | I 9＊ |
| D101 | C 92日3－0 | DIADE，1N914／1N414日 SOT－23 SMT | N 9＊ |
| D102 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 9＊ |
| D103 | C 92日3－0 | DIODE，\｛NS14／1N414日 50T－23 SMT | L 9＊ |
| D184 | C 92日3－0 | DIODE，1NS14／1N414日 50T－23 SMT | M $9^{*}$ |
| D105 | C 92日3－0 | DIODE，1NS14／1N414日 SOT－23 SMT | L 9＊ |
| D106 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N $8^{*}$ |
| D107 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 8＊ |
| D108 | С 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N $\mathrm{Q}^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## INACTIVE

For Reference Use Only
THESE DRAWINGS AND SPECIFICATIONS ARE THE SHALL NOT EE REPRODUCED. COPIED: INC USEDD AS THE BASIS FOR THE MANUFATURE OA SALE

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC． |
| D22B | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | E 7＊ |
| D229 | C 9293－0 | DIODE，1N914／1N414日 SQT－23 SMT | F 6＊ |
| D230 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | K 9 |
| E1 | 102476－1 | LED．SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | J 1 |
| E10t | 102478－1 | LED．SMT R／A GREEN | J 1 |
| E102 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 102477－1 | LED．SMT R／A RED | M 1 |
| E209 | 102476－1 | LED．SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED，SMT R／A RED |  |
| HS 1 | 102575－3 | HS ASM．T2 NON－ISOLATED CH1． | L 6 |
| HS 2 | 102576－3 | HS ASM．T2 NON－ISOLATED CH2， | L 3 |
| H53 | 102573－3 | HS ASM，T2 ISOLATED CHI，． | G 8 |
| H54 | 102574－3 | HS ASM，T2 ISOL．ATED CH2，． | G 3 |
| HW1 | 10257日－1 | SPACER，6X． 125 AL BLK ANODIZED | A 4 |
| HW2 | 10257日－1 | SPACER， $6 \times .125$ AL ELK ANODIZED | A 4 |
| HW3 | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ BLK ANODIZED | A 4 |
| HW4 | 10257日－1 | SPACER， $6 \times .125$ AL BLK ANODIZED | A 4 |
| HW5 | 102578－1 | SPACEF， $6 \times .125$ AL BLK ANODIZED | A 4 |
| HWG | 10257日－1 | SPACER， $6 \times .125 \mathrm{AL}$ BLK ANODIZED | B 4 |
| HW7 | 102578－1 | SPACER， $6 \times .125$ AL BLK ANODIZED |  |
| HWE | 10257日－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANODIZED |  |
| HW9 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | D 5 |
| HW10 | A10020－7 | $6-32 \times .525$ PCE CAPTIVE STUD | I 6 |
| HW1 1 | A1002日－7 | $6-32 \times .525$ PCB CAPTIVE STUD | D 2 |
| HWI 2 | A10020－7 | 6－32 $X$ ． 625 PCB CAPTIVE STUD | I 3 |
| HW1 3 | A10020－7 | 6－32 $\times$ ． 525 PCE CAPTIVE STUD | J 5 |
| HW1 4 | A10020－7 | B－32 $\times .625$ PCB CAPTIVE STUD | N 5 |
| HW1 5 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | J 2 |
| HW1 6 | A10020－7 | E－32 $\times .625$ PCE CAPTIVE STUD | N 3 |
| HW1 7 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HWI星 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1 9 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW20 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW2 1 | A）105E－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW22 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE |  |
| HW23 | A1 1856－1 | 6－32 HEX NUT W／日ELLEVILLE | B 4 |
| HW2 4 | A1 1056－1 | 6－32 HEX NLJT W／日ELLEVILLE | B 4 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| J 2 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J3 | 102472－3 | HDA，16POS ． 100 ETR SGL ROW | M 8 |
| J 4 | 101571－ | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J5 | 101993－1 | JACK．6P4 COND MODULAR R／A |  |
| 」100 | 102473－1 | SPEAKON． 4 POLE PCE HORZ | D 10 |
| J200 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | F 18 |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

CRDWN INTERNATIDNAL INC．



PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP L．OC． |
| :---: | :---: | :---: | :---: |
| Q203 | 102483－1 | PNP 300V 500MA SDT－23 | 」 ＊＊$^{\text {a }}$ |
| 0204 | C 9252－5 | 2N3984 40V NPN TRANSISTOR | I 3 |
| 0205 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 」 $7^{*}$ |
| 0207 | 103192－1 | NPN 30VV 500MA 50MHZ SOT－223 | K $7^{*}$ |
| व20日 | 102481－1 | NPN 25V LOW NOISE SOT－23 | K ${ }^{*}$ |
| 0209 | C 9931－4 | MMET5ロ日7LT1 PNP XSISTOR SOT－23 | K $8^{*}$ |
| 0210 | 103192－1 | NPN 30®V 500MA 50MHZ 50T－223 | 」 $\mathbf{2}^{*}$ |
| 0211 | C 9931－4 | MM日T5087LT1 PNP XSISTOR SOT－23 | J 2＊ |
| 0212 | 103200－1 | NPN 230V 15A 30MHZ 25C5242 | J 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0220 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | D 2＊ |
| Q221 | 103200－1 | NPN 230V 15A 30MHZ 25C5242 | D 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0229 | C 744日－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 125106－1 | MAC9D B AMP 40VV TRIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER S日S 8 V THRESH | F 8 |
| 0233 | 1024日0－1 | FET．N－CH 25V 50MA SOT－23 | 」 －$^{*}$ |
| R1 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J $8^{*}$ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 」 $8^{*}$ |
| R3 | A11371－334！ | 330K D．10W 5\％CHIP 0805 | I 8＊ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊＊ |
| R5 | A11368－69811 | 6．98K OHM 0．10W 1\％CHIP DBQ5 | D 8＊ |
| R6 | A11368－93111 | 9．3iK 0．1W 1\％［HIP 0日05 | D $\mathrm{B}^{*}$ |
| R7 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | 」 $\mathrm{B}^{*}$ |
| R8 | A11371－1022 | 1K 0.125 W 5\％CHIP 1206 | N 10＊ |
| R9 | A11358－10021 | 10K 1／10W 1\％CHIP D日05 | H $9^{*}$ |
| R10 | A11358－20023 | 20K 0．25W 1\％CHIP 1210 | H $9^{*}$ |
| R11 | A11371－3341 | 330K 0．10W 5\％CHIP 0日05 | I 9＊ |
| R12 | A11368－68121 | 68． 1 K 日．10W 1\％CHIP | I 9＊ |
| R13 | A11371－1011 | 108 OHM D．18W 5\％CHIP 0日B5 | I 10＊ |
| R14 | A11371－0R21 | 0．2 OHM D．10W 5\％CHIP 0日05 | I 10＊ |
| R15 | A11371－0R21 | B． 2 OHM 0．10W 5\％CHIP 8日05 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | F 10＊ |
| R18 | A11368－71511 | 7.15 K OHM 0．10W $1 \%$ CHIP 0日05 | D 8＊ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I $1^{*}$ |
| R20 | A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日®5 | I 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R2 1 | A1 1368－12121 | 12.1 K OHM D．10W 1\％CHIP DEDS | 」 9＊ |
| R22 | A1136日－39231 | 392K 0．10W 1\％EHIP 0日05 | I $\mathrm{S}^{*}$ |
| R23 | A11368－39231 | 392K 0．10W 1\％CHIP 0日05 | I ${ }^{*}$ |
| R24 | A11368－57621 | 57． 5 K 日．10W $1 \%$ CHIP 0805 | I g＊ |
| R25 | A113E日－10．31 | 180K 日．1 W $1 \%$ CHIP 0日®5 | N $\mathrm{g}^{*}$ |
| R25 | A11371－3341 | $330 K$ O．1DW 5\％EHIP BEO5 | A $3^{*}$ |
| R27 | A1136日－20021 | 20K 1／10W 1\％［HIP 0B05 | L $9^{*}$ |
| R2日 | A11371－7511 | 750 OHM 0．10W 5\％EHIP | L ＊$^{*}$ |
| R29 |  | OPEN | 日 2 |
| R3才 | A1136日－10031 | 100K 区．1W 1\％CHIP 0日05 | I $\mathrm{E}^{*}$ |
| R31 | A1 1368－10031 | 10日K 日．1W 1\％CHIP 0805 | 」 $\mathrm{B}^{*}$ |
| R＇32 |  | DO NOT INSTALL | 」 日 |
| R32x | 127229－1 | RES．1100 OHM 5W 5\％THICK FILM | 」 8 |
| R33 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0日65 | I 10＊ |
| R34 |  | DO NOT INSTALL | 」 日 |
| R10］ | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A1136日－10011 | 1 K 日．10W 1\％CHIP 0日0S | M 10＊ |
| R102 | A1136日－39231 | $392 \mathrm{~K} \mathrm{日} 10 \mathrm{~W} 1 \$.$% EHIP 0日05$ | N 9＊＊ |
| R103 | A1136B－49901 | 499 DHM D． 10 W 1\％CHIP 0日05 | N $\mathrm{G}^{*}$ |
| R104 | A1135B－10021 | 10K 1／10W 1\％CHIP D日05 | N 9＊ |
| R105 | A11371－6日14 | E日B OHM ロ．50W 5\％CHIF | 」1＊＊ |
| R106 | A1135B－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 日BDS | M ${ }^{*}$ |
| R107 | A1135日－10021 | $10 \mathrm{~K} 1 / 1 \mathrm{OW} 1 \% \mathrm{CHIP}$ 0日05 | L 10＊ |
| R18日 | A1136日－10021 | 10K 1／18W 1\％CHIP B日05 | ᄂ 10＊ |
| R189 | A1136日－19122 | 19.1 K O． $125 \mathrm{~W} 1 \%$ LHIP 1206 | M $9^{*}$ |
| R110 | A1136B－10011 | 1 K D． $10 \mathrm{~W} 1 \%$ CHIP DBQS | L $9^{*}$ |
| R1 11 | A11368－10021 | 10K 1／10W 1\％CHIP 0日g 5 | L $\mathrm{g}^{*}$ |
| R112 | A10265－19121 | 19.1 K D． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 9 |
| R113 | A1136B－51111 | 5.11 K DHM $0.10 \mathrm{~W} 1 \%$ CHIP 日日05 | L 1 $\mathrm{D}^{*}$ |
| R114 | A1136B－82511 | 日． 25 K 0．1W 1\％CHIP 0805 | ᄂ1苜 |
| R115 | A113EB－68121 | 6日． 1 K － 10 L W 1\％EHIP | L 10＊ |
| R116 | A1136B－22601 | 226 DHM 0.10 W 1\％CHIP 0日®5 | M ${ }^{*}$ |
| R117 | A11371－3341 | 330K 0．10W 5\％CHIP 0日05 | M $\mathrm{g}^{*}$ |
| R11日 | A $11368-10221$ | 10．2K 0．10W 1\％CHIP 日日05 | M 10 |
| R119 | A11371－3333 | 3ヨK D．25W 5\％LHIP 1210 | M $\mathrm{S}^{*}$ |
| R120 | A1 1368－98921 | 90．9K 0．10W 1\％［HIP 0日もら | M 9＊ |
| R121 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | M 10 |
| R122 | A1136日－15831 | 158K 0．10W 1\％CHIP 0日®5 | N $\mathrm{g}^{*}$ |
| R123 | A113E日－10031 | 100K 0．1 W 1\％CHIP 0日05 | M $9^{*}$ |
| R124 | A1136B－15831 | 158K 0．10W 1\％CHIP DEDS | M 9＊ |
| R125 | A11368－10231 | 100K D． $1 \mathrm{~W} 1 \%$ EHIF 0日B5 | N 9＊ |
| R126 | A1136日－49321 | 49．9K 日． $1 \mathrm{~W} 1 \%$ LHIP 0 B05 | M $\mathrm{S}^{*}$ |
| R127 | A11371－6日21 | 6．BK 0．10W 5\％LHIP 0B05 | N ＊$^{*}$ |
| R12日 | A11371－E814 | 680 DHM 0．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－6211 | B20 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | $0 日^{*}$ |
| R131 |  | OPEN | 口 $\mathrm{B}^{*}$ |
| R132 | A11371－2223 | 2． 2 K 0． $25 \mathrm{~W} 5 \%$ CHIP 121 B | H 6＊ |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only THESE DPAWINGS AND SPECIFICATIONS ARE T SROPERTY OF CROWN INTERNATIONAL：INE UAND AS THE BASIS FOR THE MANUFACTULE DR SALE

CROWN INTERNATIDNAL
171B WEST MISMAWAKA RDAD

ELKHART，INDIANA 46517 DWG．NO．

## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 6＊ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER $T / R$ | M 7 |
| R135 | A11371－3923 | $3.9 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP | M 7＊ |
| R136 | A11371－8201 | B2 DHM 0．10w 5\％CHIP | M 7＊ |
| R137 | A11368－15062 | 150 OHM $0.125 \mathrm{~W} 1 \% \mathrm{CHIP}$ | N $\mathrm{B}^{*}$ |
| F138 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N $8^{*}$ |
| R：39 | A1 1368－10703 | 107 OHM D．25W 1\％LHIP | N ${ }^{*}$ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $\mathrm{B}^{*}$ |
| R141 | A11371－8211 | 820 OHM D．10W 5\％CHIP | 0 8＊ |
| R142 | A11371－4724 | 4.7 K OHM $0.50 \mathrm{~W} 5 \%$ CHIP 2010 | O $8^{*}$ |
| Ri 43 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $\mathrm{B}^{*}$ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIF | N $\mathrm{B}^{*}$ |
| R145 | A1136日－75R83 | 75 OHM 0．25W 1\％CHIP 1210 | N $\mathrm{B}^{*}$ |
| F146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | N 7＊ |
| R147 | A11371－1011 | 100 OHM 日． $10 \mathrm{~W} 5 \%$ CHIP 0805 | N 7＊ |
| R148 | A11371－1811 | 180 OHM D．10W 5\％CHIP | M 7 ＊ |
| R150 | A11371－5R63 | $5.60 .25 W 5 \%$ EHIP | N 6＊ |
| R152 | 103198－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 6＊ |
| R153 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R154 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | L 6＊ |
| R155 | 103199－1 | 0．4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | M 5＊ |
| A156 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／A | M $\mathrm{E}^{*}$ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{F}$ | N 5＊ |
| R158 | A10266－2R74 | 2.7 DHM 2W 5\％CF | 18 |
| P159 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | D E＊ |
| R160 | A11371－1501 | 15 OHM 0．10W 5\％LHIP | I 7＊ |
| R161 | A11371－1331 | 13K DHM 8．10W 5\％CHIP 8805 | H 7 ＊ |
| P162 | A11371－47D1 | 47 DHM 0．10W 5\％CHIP | H ${ }^{*}$ |
| R163 | A11371－1811 | 1 106 OHM 区．10W 5\％CHIP | I 7＊ |
| A165 | A11371－5R63 | 5．6 ロ．25W 5\％CHIP | I 5＊ |
| R157 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | E 6＊ |
| R168 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R169 | 103199－1 | 0.4 OHM 1W 5\％2512 T／A | F E＊ |
| R170 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R171 | 103199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R172 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{A}$ | H $\mathrm{G}^{*}$ |
| R174 | A1136日－60432 | 804K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | G $8^{*}$ |
| R175 | A1136日－51111 | 5.11 K OHM D． 10 W 1\％LHIP 0805 | G日＊ |
| R176 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | ［ $8^{*}$ |
| R177 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | H $\mathrm{O}^{*}$ |
| R178 | A11368－90921 | 90．9K 0．10W $1 \%$ CHIP 0日®5 | N 9＊$^{*}$ |
| R179 | A11368－10031 | 100K 0．1W 1\％CHIP 0a05 | F 7＊ |
| R180 | A1 1368－39231 | 392K 0．10W 1\％CHIP 0805 | G $8^{*}$ |
| R181 | A11371－E日14 | 680 OHM $0.50 \mathrm{~W} 5 \%$ CHIP | J 1＊ |
| R182 | A11368－10021 | 10K 1／1日W 1\％CHIP 0805 | F $\mathrm{日}^{*}$ |
| R183 | A11368－10031 | 100K 0．1W $1 \%$ CHIP DGQ5 | F 自＊ |
| R184 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

## CROWN INTERNATIONAL INC．

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R185 | A11388－10021 | 10K 1／10W 1\％CHIP De05 | G 日＊ |
| R18号 | A11388－10031 | 120K D．\％W 1\％EHIP D805 | N 10＊ |
| 月187 | A11358－15831 | 159K 0．10W 1\％CHIP 0日05 | M 10＊ |
| A188 | A）136日－15831 | 15日K 0．10W 1\％CHIP 0日®5 | N 10＊ |
| R199 | A11368－10031 | 100K 0．1W $1 \%$ EHIP 0805 | M 10＊ |
| R190 | A11368－57521 | 57.6 K 日． $10 \mathrm{~W} 1 \%$ LHIP 0805 | N E＊ |
| R191 | A）1368－22601 | 228 OHM 0．10W 1\％CHIP 0日05 | NE＊ |
| R192 | A11368－60432 | S04K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1205 | L 9＊ |
| R193 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | N 9＊ |
| A194 | A11371－8201 | 82 OHM 0．18W 5\％CHIP | M ${ }^{*}$ |
| R195 | A11371－8211 | 日20 OHM 0．10W 5\％EHIP | M ${ }^{*}$ |
| R196 | A11368－10021 | 10x 1／10W 1\％CHIP 0日05 | M 9＊ |
| R197 | A）136日－61911 | 6．19K 0．10W 1\％CHIP 0805 | M 10 |
| R198 |  | QPEN | M 10 |
| R199 | A11371－8A02 | O． 0 OHM JUMPER CHIP 1206 | N $8^{*}$ |
| F200 | 122595－3 | POT．5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A） $1368-10811$ | 1K 0．10W 1\％CHIP 0805 | K 10＊ |
| A202 | A！136日－39231 | 392K 0．10W 1\％CHIP 0日85 | L $\mathrm{g}^{*}$ |
| R203 | A11368－49901 | 499 OHM 0．10W 1\％CHIP 0日05 | L． \％＊$^{\text {a }}$ |
| R204 | A11358－10021 | 10K 1／10W 1\％CHIP 0805 | L 9＊ |
| R205 | A11371－6814 | 5日g OHM 0．50W 5\％CHIP | M 1＊ |
| 8206 | A1 1368－10011 | 1K $0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | 〕 9＊ |
| R289 | A11368－19122 | 19.1 K 0.125 W ¢ \％CHIP 1206 | K 9＊ |
| R210 | A）1358－10011 | 1K D．10W 1\％LHIP 0日05 | 」 9 ＊ |
| F21； | A11368－10021 | 10K 1／10W 1\％CHIP D日05 | 」 ＊$^{*}$ |
| R212 | A10265－19121 | 19．1K 0．25W 1\％MF | 」 9 |
| R213 | A11388－51111 | 5.11 K OHM D．10W 1\％CHIP D日QS | 」 $10 *$ |
| R214 | A11388－825i1 | B． 25 K 日． $1 \mathrm{~W} 1 \%$ CHIP 0805 | J 10＊ |
| R215 | A1 1368－68121 | 68．1K 0．10W 1\％CHIP | 」10＊ |
| R216 | A11388－22601 | 226 OHM 0．10W 1\％CHIP 0805 | K 9＊ |
| R217 | A11371－3341 | 330 K D． $10 \% 5 \%$ CHIP 0805 | 」 9＊ |
| R218 | A11368－10221 | 10．2K 0．10W 1\％CHIP BE®5 | K 10 |
| A219 | A11371－3333 | 33X Q．25W 5\％CHIP 1210 | J S＊ |
| R220 | A11368－90921 | 90．9K 0．18W 1\％CHIP B日®S | K 9＊ |
| R221 | A11388－10021 | 10K 1／10W 1\％CHIP 0e85 | K 10 |
| R222 | A1136日－15931 | 158K 0．10W 1\％CHIP 0805 | K 9＊ |
| R223 | A1 1 368－10031 | 100K 0．1W 1\％CHIP 0日05 | K $\mathbf{S H}^{*}$ |
| R224 | A1 1368－15831 | 158K 0．10W 1\％LHIP 0805 | K $9^{*}$ |
| R225 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0日05 | L 9＊＊ |
| R226 | A11368－49921 | 49．9K D．1W $1 \%$ CHIP 0805 | K 9＊ |
| R227 | A11371－6日21 | 6．8K 0．10W 5\％CHIP 0805 | K 9＊ |
| R228 | A11371－E日14 | 580 OHM $0.50 \mathrm{~W} 5 \%$ CHIP | M 1＊ |
| R229 | A1 1371－8211 | B20 OHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L $7 *$ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K D．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A 11371－7511 | 750 OHM 0．10W 5\％CHIP | H $3^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| F235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 7 ＊ |
| R236 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | 」 7 ＊ |
| P237 | A1136日－15002 | 150 OHM 0．125W 1\％CHIP | K 日＊ |
| R238 | A11371－1213 | 128 OHM 0．25W 5\％CHIP | K 7＊ |
| F239 | A1136日－10703 | 107 OHM D．25W 1\％CHIP | K 日＊ |
| R240 | A11371－3333 | 33 K 0.25 W 5\％CHIP 1210 | K 7＊ |
| R24 1 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | L 8＊ |
| R242 | A11371－4724 | 4．7K OHM 0．50W 5\％CHIP 2010 | L 7＊ |
| R243 | A11371－3333 | 33 K 0.25 W 5\％CHIP 1210 | K 8＊ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％EHIP | K $日^{*}$ |
| R245 | A11368－75R03 | 75 OHM 0．25W $1 \%$ CHIP 1210 | K $B^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 」 $\mathbf{2 *}^{*}$ |
| R247 | A11371－1011 | 100 OHM D．10W 5\％CHIP 0805 | 」 $2^{*}$ |
| R24B | A11371－1811 | 180 OHM 0．10W 5\％CHIP | K $\mathbf{2}^{*}$ |
| R250 | A11371－5R63 | $5.60 .25 W 5 \%$ LHIP | 」 $2^{*}$ |
| R252 | 103199－1 | D． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K ＊$^{*}$ |
| R253 | 103199－1 | D． 4 OHM 1W 5\％2512 T／R | K 3＊ |
| R254 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | L ＊＊$^{\text {＊}}$ |
| R255 | 103199－1 | 0.4 OHM 1 W 5\％ 2512 T／R | M 3＊ |
| R256 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0.4 OHM 1 W 5\％ 2512 T／R | N ${ }^{*}$ |
| R259 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512$ T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM D． 1 日W 5\％CHIP | D 1＊ |
| R261 | A11371－1331 | 13K OHM 0．10W 5\％CHIP DE05 | E 2＊ |
| R262 | A11371－4701 | 47 OHM 0．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1日11 | 180 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5．6 0．25W 5\％CHIP | E 2＊ |
| R267 | 103199－1 | Q． 4 OHM 1W5\％ 2512 T／R | E 4＊ |
| R268 | 103199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R269 | 103199－1 | D． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 4＊ |
| R276 | 103199－1 | 0.4 ロHM 1W 5\％ 2512 T／R | G 3＊ |
| 8271 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | H 4＊ |
| R272 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／R | H 3＊ |
| R274 | A11368－60432 | 604K OHM 0．125W $1 \%$ CHIP 1206 | E $\mathrm{B}^{*}$ |
| R275 | A11358－51111 | 5.11 K OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 日日Q5 | E 日＊ |
| R276 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | E $日^{*}$ |
| R277 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | E 日＊ |
| R278 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| R279 | A1136日－10031 | 10⿹K 0．1W $1 \%$ CHIP 0日05 | E 7＊ |
| R280 | A11368－39231 | 392K 0．10W 1\％CHIP 0日05 | E $日^{*}$ |
| R281 | A11371－6日14 | E80 OHM 0．50W 5\％CHIP | M 1＊ |
| R282 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | D $8^{*}$ |
| R283 | A1136日－10031 | 10日K 0．1W 1\％LHIP 0日05 | E $B^{*}$ |
| R284 | A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
| R285 | A11368－10921 | 10K 1／10W 1\％CHIP 0日05 | F 8＊ |
| R286 | A11368－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | ᄂ 10＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R287 | A11368－15931 | 158 B － 1 DW 1\％CHIP 0805 | K 10＊ |
| R28B | A11368－15831 | $158 K 0.18 W 1 \%$ CHIP 0805 | K 10＊ |
| R289 | A11368－10031 | 100K 0．1W 1\％EHIP 0a05 | K 10＊ |
| R290 | A11368－57621 | 57． $5 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP D805 | N 3＊ |
| R291 | A1136日－22601 | 226 OHM D．10W 1\％LHIP 0日05 | N 3＊ |
| F292 | A1136日－60432 | E日4K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | 」 $9 *$ |
| R293 | A1136日－10021 | 10K 1／10W 1\％CHIP DBD5 | K 9＊ |
| R294 | A11371－8201 | B2 OHM 0．10W 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | 日20 DHM D．10W 5\％CHIP | 」 7 ＊ |
| R296 | A1136B－10021 | 10K 1／10W 1\％CHIP 0BD5 | K 9＊ |
| F297 | A1136日－61911 | 6．19K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－0R02 | 0.0 OHM JUMPER CHIP 1200 | K $\mathrm{B}^{*}$ |
| R300 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | D $\mathrm{E}^{*}$ |
| R301 | 103199－1 | 0.4 OHM IW 5\％ 2512 T／R | 」 6 ＊ |
| R302 | 103159－1 | 0． 4 OHM 1W 5\％2512 T／R | K 5＊ |
| R303 | 103199－1 | 0． 4 OHM 1 W 5\％ 2512 T／R | L 6＊ |
| R304 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 5＊ |
| R305 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M 6＊ |
| R306 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | N 5＊ |
| R307 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R308 | 103199－1 | 0.4 OHM iW 5\％ 2512 T／R | F $6^{*}$ |
| R309 | 103199－1 | 0.4 OHM iW 5\％ 2512 T／R | G 6＊ |
| R310 | 103199－1 | 0.4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G $6^{*}$ |
| R311 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R312 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／R | I 8＊ |
| R313 | A1136日－10021 | 10K 1／10W 1\％CHIP D日05 | G 7＊ |
| R314 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \%$ CHIP 0805 | G 7＊ |
| R315 | A113E日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | H 7＊ |
| R316 | A1 1368－10011 | 1 K 0.10 W 1\％CHIP 0805 | M 10＊ |
| R317 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | N 8 |
| R318 | A11371－3934 | 39 K OHM 0．50W 5\％LHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ． $25 \mathrm{~W} 5 \% 1210$ SMT T／R | L 9 |
| R323 | A11371－0月02 | 0.0 OHM JUMPER CHIP 1206 | 68 |
| R400 | 103195－1 | 0.4 OHM 1W 5\％2512 T／R | D 3＊ |
| R401 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 4＊ |
| R402 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | K $3 *$ |
| R403 | 103199－1 | 0． 4 DHM 1 W 5\％ 2512 T／R | L 4＊ |
| R404 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 3 ＊ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | M ＊$^{*}$ |
| R406 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊＊ |
| R407 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | E 4＊ |
| R40日 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R409 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 4＊ |
| R410 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 3＊ |
| R411 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H $4^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | E．P．N． | DESCRIPTION | MAP LDC． |
| R412 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I 3＊ |
| R413 | A1136日－10021 | 10K 1／10W t\％CHIP D日05 | E $7 *$ |
| R414 | A11371－3341 | 330K 0．10w 5\％CHIP 0日05 | E 7＊ |
| R415 | A1136日－51111 | 5.11 K OHM 日．1EW $1 \%$ CHIP 0885 | E 7＊ |
| R416 | A1136日－18011 | 1K D．10W 1\％CHIP 0B05 | K 10＊ |
| R417 | A11371－3934 | 3SK OHM D．50W 5\％CHIP 1210 | K 7 |
| R418 | A11371－3934 | 3SK OHM D．50W 5\％LHIP 1210 | K 8 |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5.5 OHM 1W 5\％CHIP 2512 | H $1^{*}$ |
| R421 | A11371－5R65 | 5.6 OHM 1 W 5\％EHIP 2512 | H 1 ＊ |
| R422 | A11371－1013 | 100 OHM ． 25 W 5\％1210 5MT T／R | 」 9 |
| R423 | A11371－0R02 | 0.0 OHM JJMPER EHIP 1206 | F $\theta$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| S 1 | 102488－1 | SPDT HOAIZ SLIDE | L 18 |
| 52 | C 7325－1 | $2 P 2$ POS．PC SLIDE SW． | L 10 |
|  |  |  |  |
| TP3日 | C 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | C 9036－9 | TEST POINT LODP | N 7 |
| U1 | C 5095－2 | POS． 15 VOLT REG． | H 10 |
| U1X | C 991日－1 | TO220 VERT LLIP－ON HEATSINK | H 10 |
| U2 | C 5095－0 | NEG． 15 VOLT REG． | H 9 |
| 42 X | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |
| 13 | 102486－1 | OPTO 日jT NPN SOIC－日 CTR $=100 \%$ | N 10 |
| ப4 | ᄃ 9262－5 | ML3307日D DLAL LO NOISE OP AMP | I 9 |
| －5 | C 8262－5 | MC3307ED DLAL LO NOISE OP AMP | N 9 |
| L108 | 102723－2 | OPTO EELL ON－500 OHM | M 9 |
| ப101 | ᄃ 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |
| U102 | C 9038－8 | COMPAFATOR，QLAD LM339D SQ－14 | N 9 |
| ப104 | C 9038－8 | COMPARATOR，OLAD LM339D SO－14 | G 7 |
| U105 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | F 7 |
| 4106 | H42902－9 | ASM．THERMAL SENSE | N 6 |
| ப200 | 102723－2 | QPTO EELL ON＝500 OHM | K 9 |
| U201 | C 9012－3 | ME33079D QUAD LO NOISE OP AMP | J 10 |
| $\pm 2 \mathrm{~V} 2$ | C 9038－8 | COMPARATOR．QUAD LM339D S0－14 | K 9 |
| ப204 | C 9038－8 | COMPARATOR，पUAD LM339D SO－14 | E 7 |
|  |  |  |  |



PARTS LIST


## INACTIVE

For Reference Use Only

## Component Map

for use with
Main PWA 127323-1



|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  SHAL NOT EE REPRODLCEDN COPIED' OR USED <br>  |  |  |  |  |  |  |
|  | Stale | MD3Fade | \| dws. No. | 127323-1 |  | (A) |
| 4 3 |  |  | 2 |  |  |  |


|  |  |  | DESCRIPTION | DATE | BY | APPRAVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E．C． | ZONE | REV． |  |  |  | CHK | CM | EE | PE |
| T991752 |  | A | INITIAL RELEASE TO PRODLJCTION． | 109－11－99 | DK | 7 M | 12 | W／4 | \％ |
|  |  |  |  |  |  |  |  |  |  |

NOTES：
SChematic drawing number 102142.
PWE PART NUMEER 102138－9．
the pwa shall meet the ipc－a－610＿class 2 standards．
all leads shall be trimmed to 0．093＂or less．
POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
components that have（＊）after their map location
are molnted on the bottom side of the painted circuit goard．
7．REMOVE SOLDER OR PREVENT SOLDEf FROM ACCUMULATING IN HOLES．
日．the vent hole dn top of the relays kiod and k200 must be opened after the cleaning phocess．by either removing the sealing tape OA CUTTING OFF THE CIRCULAR TAB WIth AN＂EXACTO＂KNife OR Simblar Cutting tool．warning，this step must be done after the cleaning PROCESS NOT 日EFORE！！！WATEA OR CLEANING SOLVENTS ENTERING THE relay vent hole will damage the relay．
9．CONNECT THE wIRES THAT COME FROM 0123 AND 0223
TO WP4 AND WPS AESPECTIVELY．
10．the pwa part number for this module shall be mafked on the P．C．BOARD AND SHALL BE PERMANENT．USE A LABEL TO COVER UP the old pwa numgers and affix the new pwa number．
11．installatidn of ulge and u20s is as follows：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOA 1276 －3－1
11日．日END TRANSISTOA AT SQ DEG．FLAT SIDE DOWN
11C．Place transistor into the pwe as shown on
THE COMPONENT MAP DETAIL B．
11D．MIX OUTPUT EPOXY AND ACCELERATOR TOGETHER．
apply the mixture to the transistor and heatsink．
the mixture must fill the heatsink hole and the
leads of the device，espectally the center lead．
（nOTE：NO VISigle air gaps around the transistor
and the transistor leads cannot touch the hearsink）
11E．HOLD The transistor abainst the heatsink until epoxy sets－up
12．TORQUE 6－32 HEX NUTS（CPN A11056－1）AS FOLLOWS：
12A．PRE－WAVE TORQUE OF 4－G INCH LES．
12日．POST－WAVE AND WHEN ASSEmely has COOLED DOWN TO HANDLING TEMPERATURE TORQUE OF 13－15 INCH LBS．
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPONENT MAP
14．install 52 with the switch bat facing away from rear
edge of the board．see sheet 20 COMPONENT MAP for
clarity．


INACTIVE
For Reference Use Only

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTEANATIONAL．INC．AND SHALL NOT BE REPADDUCED，COPIED，OR USED AS THE EASIS FOR THE MANUFACTURE OR SALE DF APPARATUS OR DEVICES WITHOLT PERMISSIDN．


PARTS LIST

| C．P．N． | DESCRIPTION | QTY | FEFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A $10020-7$ | $6-32 \times .625$ PCB CAPTIVE STUD | 8 | HW9，HW1 D．HW1 1．HW1 2，HW1 3，HW1 4. |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K 0．25W $1 \% \mathrm{MF}$ | 2 | R112，R212 |
| A10256－2R74 | 2.7 OHM 2W 5\％［F | 1 | R158 |
| A10434－104JD | 0.1 MF 250 V 5\％MTL POLY | 2 | C118．C218 |
| A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 日 | HW17，HW18，HW1 9．HW20．HW21． |
|  |  |  | HW22，HW23，HW2 4 |
| A11368－10011 | 1 K 日．10W 1\％CHIP 0805 | 8 | R101．R106．R110．R201．R206． |
|  |  |  | R21日．R316．R416 |
| A11368－10021 | 10K 1／10W 1\％CHIP 0805 | 23 | R9，R104，R107，R108，R111． |
|  |  |  | R121．R176．R177．R1日2．R185． |
|  |  |  | R193．R196．R204，R211．R221． |
|  |  |  | R276，R277，R282，R285．R233． |
|  |  |  | R296，R313．R413 |
| A1136日－10031 | 100 K 0．1W $1 \%$ CHIP 0805 | 15 | R25．R30．R31．R123．R125．R179， |
|  |  |  | R183，R186．R189，R223．R225． |
|  |  |  | R279，R283，R286，R289 |
| A11368－10221 | 10．2K 0．10W 1\％CHIP 0805 | 2 | R118，R218 |
| A11368－10703 | 107 OHM 日． 25 W 1\％EHIP | 2 | R139．f239 |
| A11368－12121 | $12.1 \mathrm{~K} \mathrm{OHM} \mathrm{D.10W} \mathrm{1} \mathrm{\%} \mathrm{EHIP} \mathrm{日805}$ | 1 | R21 |
| A11368－15831 | 158K 日．10W 1\％CHIP 0805 | 日 | R122，R124，R187，R188，R222． |
|  |  |  | R224．R287．R28日 |
| A11368－19122 | 19．1× 0．125W 1\％LHIP 1206 | 2 | R189，R209 |
| A 11 136日－20021 | 20K 日．1W 1\％0805 T／R | 1 | R27 |
| A11368－20023 | 20K 日．25W 1\％CHIP 1210 | 3 | R10，R1日4，R2日4 |
| A11368－22601 | 225 OHM 日．10W 1\％CHIP 0805 | 4 | R116．R191．R216．R291 |
| A11368－39231 | $382 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 6 | R22，R23．R102．R180，R202，R280 |
| A11358－49301 | 489 OHM ®． 10 W 1\％CHIP 0805 | 2 | R103，R203 |
| A11368－49902 | 499 OHM Q． $125 \mathrm{~W} 1 \%$ CHIP | 2 | R137．R237 |
| A11368－49921 | 49．9K 0．1W 1\％CHIP 0805 | 2 | R126．R226 |
| A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0B05 | 6 | R113．R175．R213．R275．R315．R415 |
| A11368－57621 | 57． 5 K D．10W 1\％CHIP 8805 | 4 | R20，R24，R190，R290 |
| A11368－60432 | 604K OHM D．125W 1\％CHIP 1206 | 4 | R174，R192，R274，R292 |
| A11368－61911 | 6．19K 0．10W 1\％CHIP 0805 | 2 | R197．R297 |
| A1136B－68121 | 68．1K 0．10W 1\％LHIP | 3 | R12．R115．R215 |
| A11368－69811 | 6．38K OHM 0．10W $1 \%$ CHIP 0805 | 1 | R5 |
| A1136B－75RD3 | 75 OHM 0．25W 1\％EHIP 1210 | 2 | R145．A245 |
| A1136B－71511 | 7.15 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R18 |
| A11368－82511 | $8.25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 3 | R17，R114，R214 |
| A1138日－90921 | 90．9K 0．10W 1\％CHIP 0805 | 4 | R120．R178．R22日，R278 |
| A1136日－93111 | 9．31K $0.1 \mathrm{~W} 1 \%$ CHIP 0885 | 1 | R6 |
| A1 1369－102J2 | 0.001 LF 50 V 5\％NPO MLC 0805 | 2 | ᄃ134，С234 |
| A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | 2 | C107．C207 |
| A11369－330．J2 | 33PF 50V 5\％NPO MLL 0805 | 2 | C142，C242 |
| A11369－471k2 | 470PF 50V 10\％NPO 0805 T／A | 4 | C110．C141，C210．C241 |
| A11371－R221 | 0.22 OHM 0．10W 5\％CHIP 0B05 | 3 | R14．R15，R33 |
| A11371－日RD2 | Q．$\square$ OHM JUMPER CHIP 1206 | 4 | R199，R299，R323，R423 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

## PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A11371－1011 | 100 OHM 日．10W 5\％CHIP 0805 | 3 | R13，R147．R247 |
| A11371－1013 | 100 OHM．25W $5 \% 1210$ SMT T／R | 2 | R322， 4422 |
| A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | 1 | R日 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R13日，R144．R23日，R244 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日® 5 | 4 | R146，R161．R246．R261 |
| A11371－1501 | 15 DHM D．10W 5\％CHIP | 2 | R150，R250 |
| A11371－1811 | 1 BO OHM 0．10W 5\％CHIP | 4 | R148，R163，R248，R263 |
| A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 0．25W 5\％LHIP | 2 | R4．R19 |
| A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ EHIP 1210 | 5 | R113．R140，R143，R219，R240．R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP 0805 | 7 | R3．R11，R26．R117，R217．R314， |
|  |  |  | R414 |
| A11371－3923 | 3．SK 0． 25 W 5\％CHIP | 3 | A16．R135． 2235 |
| A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | 4 | R317，R31B，R417，R418 |
| A11371－4701 | 47 OHM 0．10W 5\％CHIP | 2 | R162．R262 |
| A11371－4724 | 4．7K OHM 0．50W 5\％CHIP 2010 | 2 | R142．R242 |
| A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 2 | R32，R34 |
| A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 4 | R150，R155，R250，R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6814 | 680 OHM 0．50W 5\％CHIP | 5 | R105，R128．R181，R205，R228，R281 |
| A11371－6日21 | 6．BK D．10W 5\％CHIP 0805 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R29．R133．R233 |
| A11371－8201 | 82 OHM D．10W 5\％CHIP | 4 | R136．R194．R236，R294 |
| A11371－8211 | 820 OHM D． $10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 5 | R129，R141，R195，R229，R241，R295 |
| A11378－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP 1 |
| A11379－c050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | $0.01 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{CHIP} \mathrm{0B05}$ | 6 | C109，c111，C115，c209，C211，C215 |
| A11427－1日3K5 | 0．01MF 50V $5 \% \times 7$ ¢ 1206 | 2 | C143．C243 |
| A11427－1日4K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \% 0805$ | 27 | C6，С7，С12，С24，С25，C28，С29， |
|  |  |  | C122．C126．C127．C128．C129． |
|  |  |  | C130．C131．C132．C133．C139， |
|  |  |  | C222．C226．C227．C22日，C229， |
|  |  |  | ᄃ230．c231．c232． $2233 . \mathrm{C239}$ |
| A11427－123k2 | 0.012 MF 50 V 10\％LHIP | 2 | C112．c212 |
| A11427－272k2 | 2700PF 50V 10\％CHIP 0805 | 2 | C117，ट217 |
| A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 4 | C116．¢119．¢216．C219 |
| C 2851－1 | 1 N4004 SILICON RECT． | 7 | D1．D2，D3，D4，DE．D7，D10 |
| C 3510－2 | CHOKE．470பH 10\％AXIAL | 4 | L10日，L101．L20日，L201 |
| ᄃ 3549－0 | DIDDE ZENER，10V， 1 N5240B | 1 | D8 |
| C 3679－5 | 33LF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | ［4．C5 |
| C 5095－2 | POS． 15 VOLT REG． | 1 | $\sqcup 1$ |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | 12 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| ᄃ 6802－0 | ． 47 MF 50V AX CERM | 2 | C102．ट282 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| C 7091－9 | 0.33 MF 50 V CHIP 1206 | 3 | C22，ᄃ140，C240 |
| C 7325－1 | 2P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 7448－1 | MMET3904 CHIP NPN | 6 | Q100，प101．0129，0200，0201．0229 |
| C 3262－5 | MC33078D DUAL LO NOISE OP AM | 4 | ப4，U5，ப105，ப205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| ［ 9012－3 | MC33079D QUAD LO NOISE OP AM | 2 | ப101． 1201 |
| C 9038－8 | COMPARATOR．QUAD LM339D S0－1 | 4 | L1日2，U1®4，U202，ப204 |
| C 9157－6 | $100 \mathrm{LF} 16 \mathrm{~V} 20 \%$ NP ELEC RAD T／ | 2 | ［123．c223 |
| C 9252－5 | 2N3304 40V NFN TRANSISTOR | 2 | 0104．0204 |
| C 9283－0 | DIODE，1NSI4／1N4148 50T－23 S | 56 | D3，D13，D101，D102．D103．D104． |
|  |  |  | D105．D106．D107．D108．D109． |
|  |  |  | D110，D111．D112．D113，D116． |
|  |  |  | D117．D118．D119．D120．D121． |
|  |  |  | D122．D123．D124，D125，D126， |
|  |  |  | D127．D1 28，D129，D130．D201． |
|  |  |  | D202．D203．D204．D205．D206． |
|  |  |  | D207，D20日．D209，D210，D211． |
|  |  |  | D212，D213．D216．D217．D218． |
|  |  |  | D221，D222，D223，D224，D225． |
|  |  |  | D225．D227．D228．D229， 0230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP3日，TP39 |
| C 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | ப1 $\times$ ，ப $2 \times$ |
| C 9931－4 | MMBT50日7LT1 PNP XSISTOA SOT～ | 6 | Q102，Q109，Q111．Q202，प209，Q211 |
| C10196－1 | 2．2MF 50V $20 \%$ RAD T／R | 4 | C121．C124．C221．C224 |
| C1020日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105．c205 |
| C10422－1 | DIODE．3A 400V 1N5404 AXIAL | 4 | D114．D115．D214，D215 |
| C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134．R234 |
| D 8317－3 | 8200UF 110 VDC ELECTROLYTIC | 2 | C20．С21 |
| 101016－1 | LBL，BARCODE． | 1 | 2 |
| 101831－1 | 250 FASTON．AUTO INSERTABLE | 3 | WP 4，WP5，WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J2 |
| 101993－1 | JACK，6P4 COND MODULAR R／A | 1 | J5 |
| 102138－9 | PWB．CE10日日／LE2000 MAIN／INPU | 1 | 1 |
| 10243日－101K2 | 10日PF 200V 10\％NPO 0805 | 6 | C104．C120．ट135．C204．C220．C235 |
| 102438－560K2 | 56PF 200V 10\％NPO 0805 | 2 | С106． 2206 |
| 102438－820K2 | 82PF 20QV 10\％NPO 0日05 | 4 | ᄃ108．ᄃ138，ᄃ208，ᄃ238 |
| 102455－1 | 47 UF 50 V 20\％RADIAL $T / R$ | 2 | C101，ᄃ201 |
| 102466－1 | 18LF 250V 20\％RADIAL T／R | 1 | C1 |
| 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \%$ RAD T／A | 2 | C103，С203 |
| 102468－1 | $47 \mathrm{UF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD $T / R$ | 4 | C113．c114．ᄃ213．C214 |
| 102470－1 | INDUCTOR．2．75LH 11A RADIAL | 2 | L102．L202 |
| 102472－3 | HDR，16POS． 100 CTR SGL ROW | 1 | 」3 |
| 102473－1 | SPEAKON， 4 POLE PCB HORZ | 2 | 」100，Ј200 |
| 102476－1 | LED．SMT R／A GREEN | 3 | E1．E101．E201 |
| 102477－1 | LED．SMT R／A RED | 4 | E100，E102，E20日，E202 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |




PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LDC |
| :---: | :---: | :---: | :---: |
| C1 | 102466－1 | 1 UUF 250V 20\％RADIAL T／R | 」 8 |
| C2 | 103418－103K2 | 0.01 MF 100V 10\％$\times 7 \mathrm{C}$（ 0805 SMD | F 9＊ |
| C3 | 125508－1 | 1 UUF 50VDC ELECTROLYTIC SMD | I 8 |
| C4 | C 4477－3 | 470 MF 35 V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35V VERT | G 9 |
| C6 | A11427－104K2 | Q． 1 MF 50V 10\％0B05 | H 10＊ |
| L7 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | H $3^{*}$ |
| ᄃ12 | A1 1427－104K2 | 0.1 MF 50V 10\％0日05 | I 3＊ |
| C20 | D 8917－3 | B20日UF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 8200UF 110 VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | N 9＊ |
| C24 | A11427－104K2 | D． 1 MF 50V 10\％ 0885 | N 9＊ |
| C25 | A11427－104K2 | 0.1 MF 50V 10\％0805 | O 9＊ |
| C26 | C 8576－8 | 100 MF $35 \mathrm{~V} 10 \%$ ELEC | I 9 |
| ᄃ27 | C 5362－6 | 2．2 MF 50V VERT | H 10 |
| C28 | A11427－104K2 | 0.1 MF S0V 10\％0805 | 」 9＊ |
| C29 | A11427－104K2 | D． 1 MF 50V 10\％0805 | I 9＊ |
| C30 | 125508－1 | 10 LF 50VDC ELECTROLYTIC SMD | I 8 |
| C31 | C 3679－5 | 33LF 50V 20\％VERT ELECT | I 10 |
| C1可 | 102465－1 | $47 \mathrm{LF} 50 \mathrm{~V} 20 \%$ RADIAL T／R | M 9 |
| C102 | C 6802－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T} / \mathrm{R}$ | M 9 |
| C104 | 10243日－101K2 | 1 包 $200 \mathrm{~V} 10 \%$ NPO 0805 | M 9＊ |
| C105 | C1020日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－550K2 | 56PF 200V 10\％NPO 0805 | L 9＊$^{*}$ |
| C107 | A11369－270K2 | 27PF 50V $10 \%$ NPO 0日05 T／R | L 9＊ |
| C10日 | 102438－820K2 | 82PF 20ロV 10\％NPO 0805 | L 10＊ |
| c109 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H 6＊ |
| C110 | A11369－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | M ${ }^{*}$ |
| C111 | A11427－1日3K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | N $日^{*}$ |
| C112 | A11427－123K2 | 0.012 MF 50 V 10\％CHIP | 0 8＊ |
| C113 | 102468－1 | 47UF 10V 20\％NP RAD T／A | N 8 |
| C114 | 102458－1 | 47UF 10V 20\％NP RAD T／A | N 日 |
| C 115 | A11427－103K2 | 0.01 MF F0V 10\％0日05 | N $日^{*}$ |
| C116 | A11427－472K2 | $4700 \mathrm{FF} 50 \mathrm{~V} 10 \% \times 7 \mathrm{R}$ 0805 | N 7＊ |
| C117 | A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | 17 ＊ |
| C118 | A10434－104」D | $0.1 \mathrm{MF} 250 \mathrm{~V} 5 \% \mathrm{MTL}$ POLY | I 8 |
| C119 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | I 7＊ |
| C120 | 102438－101K2 | 10BPF 20QV 10\％NPO 日Q05 | I 7＊ |
| C121 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD}$ T／R | G 日 |
| C122 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F 8＊ |
| C123 | C 9157－6 | 10 LLF 16V 20\％NP ELEC RAD T／R | F 8 |
| C124 | C10196－1 | 2． 2 MF 58 V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | D． 1 MF 50V 10\％0805 | N 10＊ |
| C127 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | N 3＊ |
| C128 | A11427－104K2 | 0.1 MF 50V 10\％日BD5 | M 10＊ |
| C129 | A1 1427－104K2 | 0.1 MF 50V 10\％0805 | M 9＊ |
| C130 | A1 1 427－104K2 | D． 1 MF 50V 10\％0805 | H $B^{*}$ |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
These pawings and specifications are The PROEERTY OF CROWN INTERNATIONAL．INC．THE AS THE GASIS FOA THE MANEACTUAE OR SAL


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| C236 | 103210－1 | 2．2UF 150 V RADIAL T／R | I 1 |
| ᄃ237 | 103210－1 | 2．2UF 160 V RADIAL T／R | I 1 |
| C23日 | 102438－820k2 | 日2PF 200V 10\％NPO 0日05 | 」 $7 *$ |
| C239 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A11369－471k2 | 470PF 50V 10\％NPD 0805 T／R | L 10 |
| C242 | A11369－330」2 | 33PF 50V 5\％NPD MLC 0805 | K 10 |
| C243 | A11427－103K5 | ロ． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | K $9^{*}$ |
| C244 | 103191－1 | Q．47LF Z5U $121020 \% 50 \mathrm{~V}$ | E 7＊ |
| D1 | C 2日51－1 | 1 N 4004 SILICON RECT． | 69 |
| D2 | C 2日51－1 | 1 N40日4 SILICON RECT． | G 10 |
| D3 | C 2851－1 | 1N4004 SILICON RECT． | G 10 |
| D4 | C 2851－1 | 1 N 40 O 4 SILICON RECT． | G 10 |
| D6 | C 2851－1 | 1N4004 SILICON RECT． | 」 B |
| D7 | C 2851－1 | 1 N 4004 SILICON RECT． | 」 8 |
| D日 | C 3549－0 | DIODE ZENER，10V．1N5240B | 」 日 |
| D9 | C 9283－0 | DIODE，1NG14／1N414日 SDT－23 SMT | I S＊ |
| D10 | C 2日51－1 | 1N4OD4 SILICON RECT． | I 10 |
| D13 | C 9283－0 | DIODE，1N944／1N4148 SOT－23 SMT | I g＊ |
| D101 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | N 3＊ |
| D102 | C 9283－0 | DIODE． 1 NS $14 / 1 \mathrm{~N} 4148 \mathrm{SOT}-23 \mathrm{SMT}$ | N $3^{*}$ |
| D103 | ᄃ 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | L 3＊$^{*}$ |
| D104 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | M $3^{*}$ |
| D105 | C 9283－0 | DIODE．1NG14／1N4148 SOT－23 SMT | L S＊$^{*}$ |
| D106 | ᄃ 9283－0 | DIODE． $1 \mathrm{NG} 14 / 1 \mathrm{~N} 414 \mathrm{E}$ 5OT－23 5MT | N $B^{*}$ |
| D107 | －9283－0 | DIODE，1N914／1N414G SOT－23 SMT | N $B^{*}$ |
| D108 | C 9283－0 | DIODE，1N914／1N4148 5OT－23 SMT | N 8＊＊ |
| D109 | C 9283－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | N B＊ |
| D110 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D111 | ［ 9283－0 | DIODE．1N914／1N414B SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D1 12 | C 9283－0 | DIODE，1NG14／1N4148 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D113 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | N B＊ |
| D114 | C10422－1 | DIODE， $3 \mathrm{~A} 400 \mathrm{~V} 1 \mathrm{N5404} \mathrm{~A}$ AIAL | I 6 |
| D115 | C10422－1 | DIODE．3A 400V 1 N5404 AXIAL | I 5 |
| D116 | C 9293－0 | DIODE，1NS14／1N4148 SOT－23 SMT | G $8^{*}$ |
| D117 | C 9283－0 | DIODE，1NG14／1N4148 SOT－23 SMT | M 10＊ |
| D11日 | C 9283－0 | DIODE．1NS14／1N4148 50T－23 SMT | N 10＊ |
| D 119 | C 3283－0 | DIODE，1NS14／1N414日 SOT－23 SMT | I $\mathrm{O}^{*}$ |
| D120 | C 3283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | I O＊$^{*}$ |
| D121 | C 9283－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | L $9^{*}$ |
| D122 | C 9283－0 | DIODE， 1 NS14／1N4148 50T－23 SMT | M 9＊ |
| D1 23 | ᄃ 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | G 9＊ |
| D1 24 | C 9283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | G 7＊ |
| D1 25 | C 9283－0 | DIDDE， 1 N914／1N4148 SOT－23 SMT | H 7＊ |
| D1 26 | ᄃ 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | M 7 |
| D127 | ᄃ 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | M 8 |
| D128 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | G 7＊ |
| D129 | C 9283－0 | DIODE． $1 \mathrm{NS14/1N4148} \mathrm{SOT-23} \mathrm{SMT}$ | G6＊ |
|  |  |  |  |
|  |  |  |  |

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC ． |
| :---: | :---: | :---: | :---: |
| D130 | ᄃ 3283－0 | DIODE．1N914／1N4148 SOT－23 SMT | M 9 |
| D201 | C 3283－0 | DIODE， $1 \mathrm{Ng} 14 / 1 \mathrm{~N} 414 \mathrm{~B}$ SOT－23 5MT | K 9＊ |
| D202 | C 9283－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | K 9＊ |
| D203 | C 9283－0 | DIODE． $1 \mathrm{NG14/1N414B}$ SOT－23 SMT | 」 $9^{*}$ |
| D204 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 $9^{*}$ |
| D205 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 ＊$^{*}$ |
| D206 | ［ 9283－0 | DIODE． $1 \mathrm{N9} 14 / 1 \mathrm{~N} 414 \mathrm{~B}$ SOT－23 SMT | K 8＊ |
| D207 | C 92日3－0 | DIODE． $1 \mathrm{NS} 14 / 1 \mathrm{~N} 4148$ 5OT－23 SMT | K $8^{*}$ |
| D208 | C 9293－ 0 | DIODE， $1 \mathrm{NS} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT-23} 5 \mathrm{ST}$ | K 7 ＊ |
| D209 | C 9283－0 | DIODE，1N914／1N4148 50T－23 SMT | K $8^{*}$ |
| D210 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 8＊ |
| D2 11 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K $8^{*}$ |
| D212 | C 9283－0 | DIODE， 1 NS14／1N4148 SOT－23 SMT | K $B^{*}$ |
| D213 | ［ 9283－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | K $8^{*}$ |
| D214 | ［10422－1 | DIODE，3A 408V 1 N5404 AXIAL | I 3 |
| D215 | C10422－1 | DIODE，3A 408V 1 N 5404 AXIAL | 12 |
| D216 | C 9283－0 | DIODE，1NS14／1N414B SDT－23 SMT | E 8＊ |
| D217 | ᄃ 9283－0 | DIODE．1N914／1N414日 SOT－23 5MT | K 10＊ |
| D218 | ᄃ 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | L 10 ＊ |
| D221 | ᄃ 92日3－0 | DIODE，1NS14／1N414日 SOT－23 SMT | 」 ＊$^{*}$ |
| D222 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 9＊ |
| D223 | C 9283－0 | DIQDE，1N914／1N4148 SDT－23 SMT | E 9＊ |
| D224 | ᄃ 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | E 7＊ |
| D225 | C 9283－0 | DIODE，1NS14／1N4148 SDT－23 SMT | F 7＊ |
| D226 | C 9283－0 | DIODE，1N314／1N4148 SOT－23 SMT | $\times 7$ |
| D227 | C 5283－0 | DIODE，1NS14／1N414日 SOT－23 SMT | $\times$ B |
| D228 | ᄃ 9283－0 | DIODE，1N314／1N414日 SOT－23 SMT | E 7＊ |
| D229 | ᄃ 9283－0 | DIODE，1NS14／1N414B SDT－23 SMT | F 6＊ |
| D230 | ᄃ 9283－0 | DIODE，1N314／1N414日 SOT－23 SMT | $\times 3$ |
| E1 | 102476－1 | LED，SMT R／A EREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED．SMT R／A GREEN |  |
| E102 | 102477－1 | LED，SMT R／A RED |  |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E201 | 102476－1 | LED．SMT R／A GREEN |  |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| HS 1 | 102575－3 | HS ASM．T2 NON－ISOLATED CH1． | L 6 |
| HS2 | 102576－3 | HS ASM，T2 NON－ISOLATED CHZ． | L 3 |
| HS3 | 102573－3 | HS ASM．T2 ISOLATED CH1，， | G 6 |
| HS 4 | 102574－3 | HS ASM．T2 ISOLATED CH2．， | G 3 |
| HW1 | 102578－1 | SPACER， $6 \times .125$ AL BLK ANODIZED | A 4 |
| HW2 | 102578－1 | SPACER． $6 \times 125 \mathrm{AL}$ 日LK ANODIZED | A 4 |
| HW3 | 102578－1 | SPACER， $6 \times .125$ AL GLK ANODIZED |  |
| HW4 | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANQDIZED |  |
| HW5 | 102578－1 | SPACER， $6 \times 125$ AL 日LK ANODIZED | A 4 |
| HW6 | 102578－1 | SPACER． $6 \times .125 \mathrm{AL}$ 日LK ANODIZED | B 4 |
| HW7 | 102578－1 | SPALER， $5 \times 125$ AL 日LK ANODIZED | B 4 |
| HWB | 102578－1 | SPACEA． $5 \times 125 \mathrm{AL}$ ELK ANODIZED | 日 4 |
|  |  |  |  |
|  |  |  |  |


|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| dramn | DK | 99／11／99 | DWG．NO． |  |  | SHEET |  |  | REV |
| Pros | MD390．0 |  |  |  | $127323-2$ |  |  |  |  |

## PARTS LIST

| REF DES | C．P．N． | DESERIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| HWG | A10020－7 | E－32 $\times .625$ PCE CAPTIVE STUD | D 5 |
| HW10 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 16 |
| HW1 1 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | D 2 |
| HW： 2 | A10日20－7 | $6-32 \times .625$ PCE CAPTIVE STUD | I 3 |
| HW1 3 | A10020－7 | 6－32 $\times .625$ PCE［APTIVE STUD | J 5 |
| HW1 4 | A10020－7 | $6-32 \times .625$ PCE LAPTIVE STUD | N 6 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW16 | A10020－7 | $6-32 \times .625$ PCE LAPTIVE STUD | N 3 |
| HW1 7 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW1 8 | A11855－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1 9 | A11856－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW20 | A11056－1 | 8－32 HEX NUT W／BELLEVILLE | A 4 |
| HW2 1 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW22 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | 84 |
| HW23 | A11056－1 | 6－32 HEX NUT W／EELLEVILLE | B 4 |
| HW24 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| 12 | 101573－1 | HDR 4 POS ， 1 CTR MTA SHRD | G 10 |
| 」 3 | 102472－3 | HDR．18POS ． 1 DU CTA SEL ROW | M B |
| $\downarrow 4$ | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| 」 5 | 101993－1 | JALK，6P4 COND MODULAR R／A |  |
| 」100 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| J 200 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | F 10 |
| K100 | 126317－1 | REL．30A 24 V SPST PCB W／FASTON | G 9 |
| K200 | 126317－1 | REL， 30 A 24 V SPST PCE W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE，470UH 10\％AXIAL | N 7 |
| L101 | C 3510－2 | CHOKE，470பH 10\％AXIAL | 17 |
| L102 | 102470－1 | INDUCTOR， 2.75 UH 11 A RADIAL | H 8 |
| L200 | C 3510－2 | CHOKE，478UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOXE．470UH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDLCTOR，2．75UH 11A RADIAL | I 1 |
| $\square 1$ | 102479－1 | PWF MJD112 NPN DARLINGTON 100V | H 10 |
| 02 | 102479－1 | PWR M．J D1 12 NPN DARLINGTON 100V | I 10 |
| Q3 | 102479－1 | PWR MJD112 NPN DARLINGTON 10日V | 110 |
| 0100 | C 744日－1 | MMBT3904 CHIP NPN | M \％$^{*}$ |
| 0101 | C 744日－1 | MMBT3904 LHIP NPN | M 9＊ |
| 0102 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | N 9＊ |
| Q103 | 102483－1 | PNP 300V 500MA SOT－23 | L $\mathrm{S}^{*}$ |
| Q104 | ᄃ 9252－5 | 2N3904 40V NPN TRANSISTOR | I 6 |
| 0185 | 103193－1 | PNP 30ロV 500MA 50MHZ SOT－223 | M 7＊ |
| Q107 | 103192－1 | NPN 300V 50日MA 50MHZ 50T－223 | M 7 ＊ |
| Q108 | 102481－1 | NPN 25V LOW NOISE 50T－23 | N 日＊ |
| Q109 | C 9931－4 | MMETSQ日7LT1 PNP XSISTOR SOT－23 | N E＊＊ |
| Q110 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | N 7＊ |
| Q111 | C 9331－4 | MMET5087LT1 PNP XSI5TOA SOT－23 | N 7＊ |
| 0112 | 10320ロ－1 | NPN 230V 15A 30MHZ 25C5242 | N 7 |
| 0120 | 103193－1 | PNP 300V 500MA 50MHZ S0T－223 | I $7 *$ |
| 0121 | 103200－1 | NPN 230V 15A 30MHZ 2SC5242 | I 7 |
| 0129 | C 7448－1 | MMBT3904 CHIP NPN | G 9＊ |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIUN | MAP LOC． |
| Q131 | 125106－1 | MAC9D 8 AMP 40QV TRIAC | F 9 |
| 0132 | 102478－1 | TRIAC DRIVER 5858 V THRESH | F 9 |
| Q133 | 1024日处 | FET，N－CH 25V 50MA SOT－23 | M 9＊ |
| 0200 | C 7448－1 | MMET3904 CHIP NPN | K 9＊ |
| 0201 | C 7448－1 | MMET3904 CHIP NPN | K 9＊ |
| 0202 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | L 9＊ |
| 0203 | 102483－1 | PNP 300V 500MA SOT－23 | 」 ＊＊$^{*}$ |
| Q204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| Q205 | 103193－1 | PNP 30DV 500MA 50MHZ SOT－223 | 」 7＊ |
| Q207 | 103192－1 | NPN 300V 50®MA 50MHZ SOT－223 | K 7＊ |
| 0208 | 1024日1－1 | NPN 25V LOW NOISE SOT－ 23 | K 7＊ |
| 0209 | C 8931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | K $日^{*}$ |
| 0210 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | 」 ${ }^{*}$ |
| 0211 | C 9931－4 | MMBTS0日7LT1 PNP XSISTOR SOT－23 | 」 2＊ |
| Q212 | 103200－1 | NPN 230V 15A 30MHZ 2SC5242 | 」 1 |
| 0220 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | D 2＊ |
| 0221 | 103200－1 | NPN 230V 15A 30MHZ 2SC5242 | D 1 |
| Q229 | C 7448－1 | MMET3964 CHIP NPN | E 9＊ |
| Q231 | 125105－1 | MAC9D 8 AMP 40ロV TRIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER SES 日V THRESH | F 8 |
| 0233 | 102480－1 | FET，N－CH 25 V 50MA SOT－23 | 」 －$^{*}$ |
| R1 | 103199－1 | $0.4 \mathrm{OHM} 1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 」 $日^{*}$ |
| R2 | A11371－2225 | 2．2K 1W 5\％CHIP 2512 | 」 $\mathrm{E}^{*}$ |
| R3 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | I $8^{*}$ |
| R4 | A11371－3313 | 330 OHM D．25W 5\％CHIP | $11^{*}$ |
| R5 | A11368－69811 | 6．98K OHM 0．10W 1\％CHIP 0805 | D $\mathrm{Q}^{*}$ |
| R6 | A11368－93111 | 9．31K 0．1W $1 \%$ CHIP 0805 | D $8^{*}$ |
| R7 | 103198－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 8＊ |
| R8 | A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ EHIP 1206 | N 10＊ |
| R9 | A 1 136B－10021 | 10K 1／10W 1\％CHIP 0805 | H $3^{*}$ |
| R10 | A $11368-20023$ | 20 K ロ．25W 1\％LHIP 1210 | H $\mathrm{S}^{*}$ |
| Ril 1 | A11371－3341 | 330K 日．10W 5\％CHIP Q805 | I $9^{*}$ |
| R12 | A11388－58121 | 68．1K 0．10W 1\％CHIP | I $3^{*}$ |
| R13 | A11371－1011 | 100 OHM D． 10 W 5\％CHIP 0805 | I 10＊ |
| R1 4 | A11371－R221 | 0.22 OHM 0．10W 5\％EHIP 0805 | I $10^{*}$ |
| R15 | A11371－R221 | 0.22 OHM 日．10W 5\％CHIP 0805 | I 10＊ |
| R16 | A11371－3923 | 3．9K $0.25 \mathrm{~W} 5 \%$ LHIP | N 9＊ |
| R17 | A11388－82511 | 8．25K 0．1W 1\％CHIP 0805 | F 10＊ |
| R18 | A11368－71511 | 7．15K OHM Q． 10 W 1\％CHIP 0805 | D $\mathrm{B}^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | $1{ }^{1}$＊ |
| R20 | A11368－57621 | 57．6K 0．10W 1\％CHIP 8805 | I 9＊ |
| R2 1 | A1136日－12121 | 12.1 K OHM Q． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 \％$^{*}$ |
| R22 | A11368－39231 | 392K 日．10W 1\％LHIP 0805 | I 9＊ |
| R23 | A11368－39231 | 392K 日．10W 1\％CHIP 0805 | I 9＊ |
| R24 | A11368－57621 | 57．6K 日．10W 1\％CHIP 8日05 | I $\mathrm{S}^{*}$ |
| R25 | A11368－10031 | 100 K 日． $1 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R26 | A11371－3341 | 330K D．10W 5\％LHIP D805 | A 9＊ |
| R27 | A）1368－20021 | $20 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0 O日5 | L 9＊ |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For ereeeneevesoony CROWN INTERNATIONAL INC．

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R28 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L． ＊$^{\text {a }}$ |
| R29 |  | OPEN | B 2 |
| R30 | A1 1388－10031 | 100K 0．1W 1\％CHIP 0日05 | I $8^{*}$ |
| R31 | A1 1368－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | J $B^{*}$ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 B |
| R33 | A11371－R221 | 0.22 OHM 0．10W 5\％LHIP 0805 | I $10 *$ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J B |
| R100 | 102595－3 | POT，5K LIN 21 DNT 12 MM HORIZ | L 1 |
| R101 | A11368－10011 | 1K 0．10W 1\％CHIP B日05 | M 10＊ |
| R102 | A1 1368－39231 | 392X 0．10W 1\％CHIP 0805 | N 3＊ |
| R103 | A11358－49901 | 499 OHM 0．10W 1\％CHIP 0805 | N ${ }^{*}$ |
| R104 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \% \mathrm{CHIP}$ ロ805 | N 3＊$^{*}$ |
| R105 | A11371－6814 | 680 OHM 0．50W 5\％LHIP | J 1＊ |
| R106 | A11368－10011 | 1K日．10W 1\％CHIP 080S | M 9＊ |
| R107 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | L 10＊ |
| R108 | A1 1368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日g5 | L 10＊ |
| R109 | A11368－19122 | 19．1K 0．125W 1\％CHIP 1206 | M $\mathrm{S}^{*}$ |
| R110 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| R111 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0805 | L ${ }^{*}$ |
| R112 | A10265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 9 |
| R113 | A11368－51111 | 5.11 K OHM D．10W $1 \%$ CHIP DB05 | L 10＊ |
| R114 | A11368－82511 | 日． 25 K 0．1W 1\％CHIP 0日05 | L 10＊ |
| F115 | A 11368 －6日 121 | 68．1× 0．10W 1\％EHIP | L 10＊ |
| A116 | A11368－22601 | 226 OHM 日．10W 1\％CHIP D805 | M 9＊ |
| R117 | A11371－3341 | 330 K 0.10 W 5\％CHIP 0805 | M 3＊$^{*}$ |
| F118 | A11368－10221 | 10．2K Q．10W 1\％CHIP 0805 | M 10 |
| F119 | A11371－3333 | 33 K 日．25W 5\％CHIP 121 L | M 9＊ |
| R120 | A11368－90321 | 90．9K B．10W $1 \%$ CHIP 0805 | M 9＊ |
| R121 | A11368－10021 | 10K 1／10W $1 \%$ CHIP 0805 | M 10 |
| R122 | A11368－15日31 | 158K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N S＊ |
| R123 | A11368－10031 | 100K 0．1W $1 \%$ LHIP 0805 | M 9＊ |
| R124 | A11368－15931 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | M 9＊ |
| R125 | A11358－10031 | 100K 0．1W $1 \%$ CHIP 0805 | N \％$^{*}$ |
| R126 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0805 | M $9^{*}$ |
| R127 | A11371－6日21 | 6． KK 0．10W 5\％CHIP 0805 | N $\mathrm{G}^{*}$ |
| R128 | A11371－6814 | 680 OHM 0．50W 5\％LHIP | J 1＊ |
| R129 | A11371－8211 | 820 OHM D． 10 W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | －日＊ |
| R131 |  | OPEN | 0 8＊ |
| R1 32 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 5＊ |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％LHIP | H 6＊ |
| R134 | C10513－5 | 1K TOP ADJLIST THIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7＊ |
| R136 | A11371－8201 | 82 OHM D．10W 5\％CHIP | M $7 *$ |
| R137 | A11368－49902 | 499 OHM D．125W 1\％CHIP | N 8＊ |
| R138 | A11371－1213 | 120 OHM 0．25W 5\％EHIP | N 8＊ |
| R139 | A11368－10703 | 107 OHM 0．25w $1 \%$ CHIP | N 8＊ |
| R140 | A11371－3333 | 33 K D． $25 \mathrm{~W} 5 \%$ LHIP 1210 | N $日^{*}$ |
|  |  |  |  |
|  |  |  |  |

PARTS LIST

| REF DES | C．P．N． | DESERIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| R141 | A11371－8211 | 820 OHM 0．10W 5\％LHIP | － $8^{*}$ |
| F142 | A11371－4724 | 4.7 K OHM 0．50W 5\％CHIP 2010 | O B＊ |
| F143 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | N 日＊ |
| R144 | A11371－1213 | 120 OHM $0.25 \mathrm{~W} 5 \%$ CHIP | N 日＊ |
| R145 | A1136日－75R03 | 75 OHM 0．25W 1\％CHIP 1210 | N 日＊ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R147 | A11371－1011 | 100 OHM D． $10 \mathrm{~W} 5 \%$ CHIP 0805 | N 7＊ |
| R148 | A11371－1日 1 | 180 OHM Q．10W 5\％CHIP | M 7 ＊ |
| R150 | A11371－5R63 | 5.6 ロ．25W 5\％CHIP | N 6＊ |
| R152 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | K 6 ＊ |
| R153 | 103199－1 | 0.4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R154 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | L 6＊ |
| R155 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 5 ＊ |
| R156 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | M 6＊ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％25：2 T／R | N 5＊ |
| R158 | A10265－2R74 | 2.7 OHM 2W 5\％CF | I 8 |
| R159 | 103199－1 | D． 4 OHM 1W $5 \% 2512$ T／R | D $5^{*}$ |
| R160 | A11371－1501 | 15 OHM D．10W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | H 7＊ |
| R162 | A11371－4701 | 47 OHM D．10W 5\％CHIP | H 7＊ |
| R163 | A11371－1日11 | 1 100 OHM 0．10W 5\％CHIP | I $7 *$ |
| R165 | A11371－5R63 | 5.6 D．25W 5\％CHIP | I 5＊ |
| R167 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／A | E 6＊ |
| ค168 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | F $\mathrm{G}^{*}$ |
| F169 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| F178 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G $6^{*}$ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G E＊ |
| F172 | 103199－1 | 0． 4 OHM 1W5\％2512 T／R | H $\mathrm{S}^{*}$ |
| F174 | A11368－60432 | 604K DHM 0．125W 1\％CHIP 1206 | G $\mathrm{B}^{*}$ |
| R175 | A11368－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | G $8^{*}$ |
| R176 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | G $日^{*}$ |
| R177 | A 1 136B－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日®5 | H $\mathrm{E}^{*}$ |
| R178 | A11368－90921 | 90．9K D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | N9＊ |
| R179 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | F 7＊ |
| R180 | A11368－35231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | G 8＊ |
| R181 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | J 1＊ |
| R182 | A1136日－10021 | 10K 1／10W 1\％LHIP Da0s | F $8^{*}$ |
| P183 | A11368－10031 | 10日K 0．1W $1 \%$ CHIP 0BD5 | F $8^{*}$ |
| F1日4 | A11368－20023 | 20K $0.25 W 1 \%$ CHIP 1210 | F 9＊ |
| R185 | A11368－10021 | 10K 1／10W 1\％CHIP 0B05 | G $8^{*}$ |
| R186 | A11358－10031 | 100K 日．1W 1\％CHIP 0日05 | N 10＊ |
| R187 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | M 10＊ |
| R18日 | A1136日－15831 | 158K 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | N 10＊ |
| R189 | A11368－10031 | 100 K － $1 \mathrm{~W} 1 \%$ CHIP 0日05 | M 10＊ |
| R190 | A1136B－57521 | 57． 5 K 0．10W 1\％CHIP 0805 | N 6＊ |
| R191 | A11368－22601 | 226 OHM 日． 10 W 1\％CHIP 0805 | N 6＊＊ |
| R192 | A1136B－60432 | 604K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | L 9＊ |
| R193 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
|  |  |  |  |
|  |  |  |  |


| DRAWN | DK | OS／11／99 | DWG．NO． | SHEET |
| :---: | :---: | :--- | :--- | :--- |
| PROJ． | MD390D0 |  | $127323-2$ |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| ค194 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M ${ }^{*}$ |
| R195 | A11371－8211 | B20 OHM 0．10W 5\％LHIP | M 7 ＊ |
| F196 | A11368－10021 | 10K 1／10W 1\％CHIP 0BQ5 | M 9＊ |
| R197 | A11358－61911 | 6．19K 日．10W 1\％CHIP 0805 | M 10 |
| F198 |  | OPEN | M 10 |
| R199 | A11371－0R02 | D． 0 DHM JUMPER CHIP 1206 | N 8＊ |
| R200 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A1136B－18011 | 1 K 日． $10 \mathrm{~W} 1 \%$ CHIP 08®5 | K 10＊ |
| R202 | A1136日－39231 | 392K 日．18W 1\％CHIP 0805 | L \％$^{*}$ |
| R203 | A11368－49901 | 499 OHM 0．10W 1\％CHIP 0805 | L． ＊$^{\text {＊}}$ |
| R204 | A11368－18021 | 10K 1／10W 1\％CHIP 0805 | L 9＊ |
| R205 | A11371－6814 | 686 OHM D．50W 5\％CHIP | M ${ }^{*}$ |
| F206 | A1 136日－10011 | 1K 日．10W $1 \%$ LHIP 0805 | J 9＊ |
| R209 | A1 1 368－19122 | 19．1K D．125W 1\％CHIP 1206 | K $9^{*}$ |
| R210 | A11368－10011 | 1 K 日． $18 \mathrm{~W} 1 \%$ CHIP 0805 | 」 9＊ |
| R211 | A11368－10021 | 10K 1／10W 1\％CHIP 0BQ5 | 」 9＊ |
| R212 | A10265－19121 | 19．1K 0．25W 1\％MF | J 9 |
| R213 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP B日® 5 | 」 10 ＊ |
| R214 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | 」10＊ |
| R215 | A11358－68121 | 68．1K 0．10W 1\％CHIP | 」1苂 |
| R216 | A11368－22601 | 226 OHM 0．10W 1\％LHIP 0805 | ¢ $\mathrm{S}^{*}$ |
| F217 | A11371－3341 | 330 K 0．10W 5\％LHIP 0805 | 」 3＊$^{*}$ |
| R218 | A11368－10221 | 10．2K 0．10W $1 \%$ CHIP 0805 | K 10 |
| F219 | A11371－3333 | 33 K D．25W 5\％CHIP 121 L | 」 ＊$^{*}$ |
| R220 | A1136日－90921 | 90．SK 0．10W 1\％CHIP 0805 | K 9＊ |
| R221 | A1136日－10021 | 10K 1／10W 1\％CHIP 0B05 | K 10 |
| R222 | A11388－15831 | 158K 0．10W 1\％CHIP 0日05 | K $9^{*}$ |
| R223 | A1 1 368－18031 | 100K D．1W 1\％CHIP 0日05 | K $9^{*}$ |
| R224 | A1135日－15831 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 日805 | K 9＊ |
| R225 | A11358－10031 | 100K 日．1W $1 \%$ CHIP 日日05 | L 9＊ |
| R226 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0805 | K 9＊ |
| R227 | A11371－6821 | 6．8K ロ．10W 5\％CHIP 0805 | K 9＊ |
| R228 | A11371－6814 | 6日コ OHM D．50W 5\％CHIP | M 1＊＊ |
| R229 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| F231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K 日．25W 5\％LHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 日．10W 5\％CHIP | H 3 ＊ |
| R234 | C10613－5 | IK TOF ADJUST TRIMMER T／R | J 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 7＊ |
| R236 | A11371－8201 | B2 OHM D．10W 5\％CHIP | 」 7＊ |
| R237 | A11368－49902 | 499 OHM 0．125W 1\％CHIP | K 日＊ |
| R238 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A1136日－10703 | 107 OHM 0．25W 1\％CHIP | K $日^{*}$ |
| R240 | A11371－3333 | 33K D．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | L B＊ |
| R242 | A1 1371－4724 | 4．7K OHM D．50W 5\％CHIP 2010 | L $7^{*}$ |
| R243 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K $\mathrm{B}^{*}$ |
|  |  |  |  |
|  |  |  |  |

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $\mathrm{B}^{*}$ |
| R245 | A11368－75R03 | 75 OHM 9．25W $1 \%$ LHIP 1210 | K $8^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 」 $2^{*}$ |
| R247 | A 1 1371－1011 | 1 DQ OHM 0．10W 5\％CHIP 88®5 | 」 $2^{*}$ |
| R24日 | A11371－1811 | 1 1日0 OHM $0.10 \mathrm{~W} 5 \%$ CHIP | K ${ }^{*}$ |
| R250 | A11371－5R63 | 5． 6 0．25W 5\％CHIP | 」 ${ }^{*}$ |
| R252 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K ＊$^{*}$ |
| R253 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R254 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | L． $4^{*}$ |
| R255 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | M $3^{*}$ |
| R256 | 103199－1 | 0.4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊$^{*}$ |
| R257 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N $3^{*}$ |
| R259 | 103139－1 | D． 4 OHM 1W 5\％ 2512 T／R | D $3^{*}$ |
| R260 | A11371－1501 | 15 OHM D．10W 5\％CHIP | D $1^{*}$ |
| R261 | A11371－1331 | 13K OHM ロ．10W 5\％CHIP ロ8Q5 | E 2＊ |
| R262 | A11371－4701 | 47 OHM 0．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 180 OHM 0．10W 5\％EHIP | E $2^{*}$ |
| R265 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | E 2＊ |
| R267 | 103198－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊$^{*}$ |
| R268 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | $F 3$＊ |
| R269 | 103193－1 | 0.4 ロHM 1W 5\％ 2512 T／R | F 4 ＊ |
| R270 | 103199－1 | Q． 4 OHM 1W 5\％2512 T／R | G 3＊ |
| R271 | 103193－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H 4＊ |
| R272 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | H 3＊ |
| R274 | A11368－50432 | 604K OHM 0．125W $1 \%$ CHIP 1205 | E $8^{*}$ |
| R275 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日05 | E $日^{*}$ |
| R276 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | E $日^{*}$ |
| R277 | A1136日－10021 | 10K 1／1日W 1\％CHIP D日05 | E $B^{*}$ |
| R278 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0日05 | L 9＊ |
| R279 | A1 136日－10031 | 100K 0．1W 1\％CHIP Da05 | E 7＊ |
| R280 | A11368－39231 | 392K 日．10W 1\％CHIP QBQ5 | E $\mathrm{B}^{*}$ |
| R281 | A11371－6814 | 680 OHM 0．50W 5\％EHIP | M $1^{*}$ |
| R282 | A1 1358－10021 | 10K 1／10W 1\％CHIP 8B05 | D $8^{*}$ |
| R283 | A11368－10031 | 100K D．1W 1\％CHIP 0805 | E 8＊ |
| R284 | A1 1368－20023 | 20K 0．25W 1\％CHIP 1210 | F $5^{*}$ |
| R285 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | F 8＊ |
| R286 | A11368－10031 | $100 K$ 0．1W $1 \%$ CHIP 0805 | L 10＊ |
| F287 | A 1 1368－15831 | 158K ロ． $10 \mathrm{~W} 1 \%$ CHIP 日805 | K 10＊ |
| R288 | A11368－15831 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | K 10＊ |
| R299 | A11368－10031 | 100K 0．1W 1\％CHIP D805 | K 10＊ |
| R290 | A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | N 3＊ |
| R291 | A11368－22601 | 226 OHM 日．10W $1 \%$ CHIP 0日05 | N 3＊ |
| R292 | A11368－60432 | 684 K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | 」 ＊$^{*}$ |
| R293 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | K 3＊$^{*}$ |
| R294 | A11371－8201 | 82 OHM 0．10W 5\％EHIP | 」 7＊ |
| R295 | A 1 1371－8211 | 820 OHM 日．10W 5\％CHIP | 」 $7 *$ |
| R296 | A11368－10D21 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | K 9＊ |
| R297 | A11368－61911 | 6．19K 0．10W 1\％CHIP 0805 | K 10 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Refeenere uso ony $\quad$ CROWN INTERNATIONAL INC．

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R298 |  | OPEN | $\times 10$ |
| $R 299$ | A11371－0RD2 | 0．0 DHM JUMPER LHIP 1206 | 大 $\mathrm{B}^{*}$ |
| R300 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／A | D 6＊ |
| R301 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | 」 6＊ |
| R302 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R303 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | L $5^{*}$ |
| R304 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | M 5 ＊ |
| R305 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M $\mathrm{E}^{*}$ |
| R306 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R397 | 183199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E $\mathrm{E}^{*}$ |
| R30日 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | F 6＊ |
| R309 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R310 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R311 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 8＊ |
| R312 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | I 8＊$^{*}$ |
| R313 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | G 7＊ |
| R314 | A11371－3341 | 330 K 0．10W 5\％EHIP 0日05 | G 7＊ |
| R315 | A $1136 \mathrm{~B}-51111$ | 5.11 K OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | H 7＊ |
| R316 | A113E日－10011 | 1 K Q． $10 \mathrm{~W} 1 \%$ CHIP DBD5 | M 10＊ |
| R317 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N B |
| R318 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N 日 |
| R319 |  | OPEN | M 10＊ |
| R322 | A1 1371－1】13 | 180 OHM ．25W 5\％1210 SMT T／R | L 9 |
| R323 | A11371－0Ra2 | 0.0 OHM J UMPER LHIP 1206 | 68 |
| R400 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D $3^{*}$ |
| R401 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 4＊ |
| R402 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R403 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | L 4＊ |
| R404 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 3＊ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M ＊＊$^{*}$ |
| F406 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N $3^{*}$ |
| F407 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| F408 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R409 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G ＊$^{*}$ |
| R410 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | G 3＊ |
| F411 | 103199－1 | 0.4 DHM 1W 5\％25：2 T／R | H $4^{*}$ |
| R4 12 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | I $3^{*}$ |
| R413 | A1136B－10021 | 10K 1／10W 1\％CHIP De⿹s | E 7＊ |
| R414 | A11371－3341 | $330 K$ 0．10W 5\％CHIP 0805 | E 7＊ |
| R415 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 8日05 | E $7 *$ |
| R415 | A11368－10011 | 1K 日．10w $1 \%$ CHIP 0日05 | $\times 10 *$ |
| R417 | A11371－3934 | 39K OHM 日．50w 5\％CHIP 1210 | $\times 7$ |
| R418 | A11371－3934 | 39K OHM D．S0W 5\％CHIP 1210 | $\times 8$ |
| R419 |  | OPEN | K 10＊ |
| R420 | A 11371 －5R65 | 5．6 OHM 1W 5\％EHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1813 | 100 OHM ． $25 \mathrm{~W} 5 \% 1210$ SMT T／R | J 9 |
| R423 | A11371－0RD2 | Q．$\square$ DHM JUMPER CHIP 1206 | F B |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |  |
| 51 | 102488－1 | SPDT HORIZ SLIDE | L 10 |  |
| 52 | C 7325－1 | 2P 2 POS．PC SLIDE SW． | L 10 |  |
| TP38 | C 9898－9 | TEST POINT LODP | K 1 |  |
| TP39 | C 3896－9 | TEST POINT LOOP | N 7 |  |
| U1 | C 5095－2 | POS． 15 VOLT REG． | H 10 |  |
| ப1× | C 991日－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |  |
| ப2 | C 5096－0 | NEG． 15 VOLT REG． | H 9 |  |
| ப2x | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |  |
| ப3 | 102486－1 | OPTO EJT NPN SQIC－8［TR－100\％ | N 10 |  |
| $\square 4$ | C 8262－5 | ML3307BD DUAL LO NOISE OP AMP | I 9 |  |
| U5 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |  |
| い100 | 102723－2 | OPTO CELL ON＝500 OHM | M 9 |  |
| ப101 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |  |
| U102 | C 9038－8 | COMPARATOR，ULAD LM339D S0－14 | N 9 |  |
| い104 | ᄃ 9038－8 | COMPARATOR，QLAAD LM339D SO－14 | G 7 |  |
| ப105 | ᄃ 8262－5 | MC33078D DLAL LO NOISE OP AMP | F 7 |  |
| $\sqcup 106$ | 127683－1 | SENSOR，CE THEFMMAL | N 6 |  |
| ப200 | 102723－2 | OPTO EELL ON＝500 OHM | ＋ 3 |  |
| L201 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | 」 10 |  |
| U202 | ᄃ 90．38－8 | COMPARATOR．QUAD LM339D SO－14 | $k 3$ |  |
| ப204 | ᄃ 9038－8 | COMPARATOR，QUAD LM339D S0－14 | E 7 |  |
| U205 | ᄃ 8262－5 | MC3307ad DUAL LD NOISE OP AMP | E 7 |  |
| ப206 | 1276日3－1 | SENSOR．CE THERMAL | N 3 |  |
| WP 1 | A1137B－A250ப | WIRE，i6 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | 103331－N050R | WIRE，16 BLK／WRT TAB $\times 5 \times$ T | A 9 |  |
| WP3 | A11379－C050ப | WIRE， 15 BLU FAST $\times 5 \times$ TERM | A 3 |  |
| WP4 | 101031－1 | 250 FASTON，ALTO INSERTABLE | D 7 |  |
| WP5 | 101031－1 | 250 FASTON．AUTD INSERTABLE | D 4 |  |
| WP6 | 127442－1 | PREP．CE HI－V WIRE | 」 B |  |
| WP7 | 101031－1 | 250 FASTON，ALJTO INSERTABLE | D B |  |
| Z 1 |  | OPEN | E 9 |  |
| 1 | 102138－9 | PWB，CE1000／CE200ロ MAIN／INPU | SEE COMP | MAP |
| 2 | 101016－1 | LBL．BARCODE． | SEE COMP | MAP |
| 3 | 125242－1 | CAP．625ID $\times 1^{\prime \prime}$ VINYL | SEE COMP | MAP |
| 4 | 126825－1 | SILILQNE，CLEAR 30Z SYRINGE | SEE COMP | MAP |
| 5 | 1254日2－1 | ADHESIVE LOCTITE 384 OUTPUT | SEE COMP | MAP |
| 6 | 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | SEE COMP | MAP |
| 7 | 103180－1 | BUMPER．0．4＂TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 1031日或1 | BUMPER．0．4＂TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 103180－1 | BUMPER，0．4＂TALL BLK W／ADH | SEE LOMP | MAP |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |



## Component Map

for use with
Main PWA 127323-2


INACTIVE
Reterence use ony

A


|  |  |  | DESCRIPTION | DATE | BY | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E.C.N. | ZONE | REV. |  |  |  | CHK | CM | EE | PE |
|  |  | A | INITIAL RELEASE FOR PRODUCTION. | 103-123-99 | KLW |  | h |  | 9 |
|  |  |  |  |  |  |  |  |  |  |

## NOTES:

1. SCHEMATIC DRAWING NUMBER 102141.
2. PWE PART NUMEER $182138-9$.
3. the pwa shall meet the ipc-a-bib_ class 2 standards.
4. all leads shall be trimmed to 0.g93" or less.
5. POSITION COMPONENTS AS SHOWN ON COMPONENT MAP.
6. Components that have (*) after their map location
are mounted on the gottom side of the painted circuit board.
7. remove solder of prevent sclder frcm accumulating IN HOLES.
a. the vent hole on top of the relays kigd and kzg日 must be opened after the eleaning process, by either removing the sealing tape OR CUTTING OFF THE CIRCULAR TAE WITH AN "EXACTO" KNIFE OR SIMULAR cutting tool. warning. this step must be done after the cleaning PROCESS NOT GEFORE!!! WATEF OR CLEANING SOLVENTS ENTERING THE relay vent hole will damage the relay.
8. CONNECT the wires that come from oi 23 and 0223 TO WP4 AND WPS RESPECTIVELY.
to. The pwa part number for this module shall be mabked on the p.c. board and shall ge permanent.
9. ingtallation of $\mathbf{U 1 0 6}$ and u206 is as follows:

11A. REMOVE MIDDLE SLEEVE FROM TRANSISTOR H42902-9
118. bend transistor at ge deg. Flat side down
116. place transistor into the pwe as shown an the component map detail b.
11D. MIX OUTPUT EPOXY AND accelerator together. apply the mixture to the transistor and heatsink. the mixture must fill the heatsink hole and the leads of the device, especially the center lead. (note: no visible air gaps arqund the transistor and the transistor leads cannot tolich the heatsink)
11E. hold the transistor against the heatsink until epoxy sets-lip
12. TOAQUE S-32 HEX NUTS (CPN A11056-t) AS FOLLOWS:

12A. PRE-WAVE TOROUE OF 4-6 INCH LBS.
128. post-wave and when assembly has cooled down to handling temperature tordue of 13-15 INCh tes.
13. INSTALL 13 CONNECTOR AS SHOWN ON COMPONENT MAP
14. Label input pwa with CPN 1268日3-2 on Component side.
15. INSTALL 52 REVERSED FROM SILK SCREENING.


THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL. INE. AND SHALL NOT EE REPRODUCED. COPIED. OR USED as THE EASIS for the manufacture or sale of apparatus or devices without permission.


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10020－7 | 6－32 $\times .625$ PCE CAPTIVE STUD | 8 | HWS．HW10．HW1 1，HW1 2，HW1 3．HW1 4. |
|  |  |  | HW15．HW16 |
| A18265－19121 | 19．1K $0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A10265－2R74 | 2.7 OHM 2W 5\％LF | 1 | R158 |
| A10434－104」D | 0．1 MF 250V 5\％MTL POLY | 2 | C119．C218 |
| A11856－1 | 6－32 HEX NUT W／GELLEVILLE | 9 | HW17，HW1 8，HW1 5．HW20，HW2 ． |
|  |  |  | HW2 2，HW2 3，HW2 4 |
| A11368－10011 | 1K 0．10W 1\％CHIP 0日05 | 8 | R101，R106，R110，R201，R206． |
|  |  |  | R210，R316，R416 |
| A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | 35 | RS，R184，R187，R108，R111，R121． |
|  |  |  | R176．R177．R182，R185．R193． |
|  |  |  | R196，R204，R211，R221，R276． |
|  |  |  | R277，R282，R285，R293，R296． |
|  |  |  | R313．R413．R500．R501，R502， |
|  |  |  | R503，R50 4，R505．R600．R601． |
|  |  |  | R602．R603，R604．R606 |
| A11368－10031 | 180K 0．1W 1\％CHIP 0805 | 15 | R25．R31．R31，R123．R125．R179． |
|  |  |  | R183，R186，R189，R223，R225． |
|  |  |  | R279．R293，R2日6，R289 |
| A1136日－12121 | 12.1 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R21 |
| A1136日－13763 | 137 OHM 0．25W 1\％CHIP | 2 | R139，R239 |
| A1136日－15002 | 150 OHM 0．125W $1 \%$ CHIP | 2 | R137，R237 |
| A1136日－15日31 | 15日K 0．10W $1 \%$ CHIP 0日05 | 8 | R122，R124，R1日7．R188，R222， |
|  |  |  | R224，R287．R2日8 |
| A1138日－19122 | 19．1K D． $125 \mathrm{~W} 1 \%$ CHIP 1206 | 2 | R109．R209 |
| A11368－20021 | 20K 0．10W 1\％CHIP 0日05 | 1 | H27 |
| A11368－20023 | 20K 0．25W $1 \%$ CHIP 1210 | 3 | R10．R184，R2日4 |
| A11368－22601 | 226 OHM Q．18W 1\％CHIP 2805 | 4 | R116．R191，R216．R291 |
| A1136日－39231 | 392K 日．10W 1\％EHIP 0日05 | E | R22，R23．R102，R180，R202，R2日0 |
| A11368－49981 | 499 OHM D． 10 W 1\％CHIP 0805 | 2 | R103．R203 |
| A11388－49921 | 49．9K 0．1W 1\％CHIP 0日®5 | 2 | R126，R226 |
| A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | 8 | R113．R175，R197．R213．R275． |
|  |  |  | R297，R315．R415 |
| A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 4 | R20．R24，R190，R290 |
| A11368－60432 | $604 \mathrm{~K} \mathrm{OHM} 0.125 \mathrm{~W} 1 \%$ CHIP 1208 | 4 | R174，R192，R274，R292 |
| A11368－69111 | 6．日1K OHM 0．10W 1\％CHIP 0日05 | 2 | R118，R218 |
| A1136日－68121 | 6B． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ | 3 | R12．R115．R215 |
| A11368－69811 | 6．9日K OHM 0．10W 1\％CHIP 0日05 | 1 | R5 |
| A1136日－71511 | 7．15K 1／10W 1\％CHIP 0805 | 1 | R18 |
| A11368－82511 | 日． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0B05 | 3 | R17．R114．R214 |
| A11368－99921 | 90．9K 0．10W 1\％CHIP 0805 | 4 | R120．R178．R220．R27日 |
| A11368－93111 | 9．31K 0．1W 1\％CHiP 0日E5 | 1 | R6 |
| A11363－1日2J2 | 0．D01LF 50V 5\％NPO MLC D日®5 | 2 | C134．C234 |
| A11389－120K2 | 12 PF 50 V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | 6 | C500． $5501.5502 . \operatorname{c60}$ ，c60 1，c502 |
| A1 1369－270K2 | 27PF 50V 10\％NPO \＃805 T／R | 2 | こ107．С207 |
| A11369－330J2 | 33PF 50V 5\％NPO MLC 0805 | 2 | C142，C242 |
| A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | 4 | C11日．C141．C21日．C241 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

CROWN INTERNATIONAL INC． 171日 wEST MISHAWAKA ROAD ELKHART．INDIANA 48517 PHONE（219）294－8000


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATIQN |
| A11371－0R02 | 0.0 OHM JUMPER CHIP 1206 | 4 | R199，R299，R323，R423 |
| A11371－0A21 | 0.2 OHM 0．10W 5\％EHIP 0805 | 3 | R14，R15，R33 |
| A11371－1011 | 108 OHM Q．10W 5\％LHIP 0日Q5 | 3 | R13．R147．R247 |
| A1 1371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | 2 | R322，R422 |
| A1 1371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \% \mathrm{CHIP} 1206$ | 1 | R8 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 6 | R138，R144．R145，R23日，R244，R245 |
| A11371－1331 | 13K OHM D．10W 5\％CHIP 0805 | 4 | R146，R161．R246，R261 |
| A11371－1501 | 15 OHM 0．10W 5\％CHIP | 5 | C606，С607，C608，R1发，R260 |
| A11371－1811 | 180 OHM 日．10W 5\％CHIP | 4 | R148，R163．R248，R253 |
| A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | 2 | R132， R |
| A11371－2225 | 2．2K 1W 5\％CHIP 2512 | 1 | R2 |
|  |  |  |  |
| A11371－3313 | 330 OHM 0．25W 5\％LHIP | 2 | R4．R19 |
| A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 6 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330K 日．10W 5\％EHIP 0日05 | 7 | R3，R11，R26，R117，R217．R314， |
|  |  |  | R414 |
| A11371－3923 | 3．SK D．25W 5\％CHIP | 3 | R16，R135，R235 |
| A1 1371－3934 | 39K OHM D．50W 5\％CHIP 1210 | 4 | R317．R31日．R417．R41日 |
| A11371－4701 | 47 OHM D．10W 5\％CHIP | 2 | R162．R262 |
| A11371－5615 | 560 OHM 1 W 5\％2512 T／R | 2 | R32，R34 |
| A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | 4 | R150．R165．R250，R265 |
| A11371－5R65 | 5．6 OHM 1W 5\％LHIP 2512 | 2 | R420，R421 |
| A11371－6814 | E日0 OHM D．50W 5\％CHIP | 6 | R105，R12日，R1日1，R205，R22日，R2日1 |
| A11371－6B21 | 6．日K 0．10W 5\％CHIP 0日®5 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．18W 5\％CHIP | 3 | R28，R133，R233 |
| A11371－8201 | 82 OHM 0．10W 5\％CHIP | 4 | R136，R194，R236，R294 |
| A11371－8205 | 82 OHM 1W 5\％CHIP 2512 | 1 | P607 |
| A11371－8211 | 820 OHM 0．10W 5\％CHIP | 6 | Ri29，R141，R195，R229，R241，R295 |
| A1137日－A日50U | WIAE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－c050U | WIRE， 16 BLU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | 0.01 MF 50 V 10\％CHIP 0日05 | 4 | C109．C111．c209．C211 |
| A11427－183K5 | 0.01 MF 50 V 5\％×7R 1206 | 2 | C143．C243 |
| A11427－104K2 | 0． 1 MF 50V 10\％0日05 | 33 |  |
|  |  |  | C115，C122，С126，C127，C12B， |
|  |  |  |  |
|  |  |  | ［139， $215 . \mathrm{C} 222 . \mathrm{C} 226 . \mathrm{C} 227$. |
|  |  |  | C22日，С229，C230，C231．C232． |
|  |  |  | C233．C239．C505．C506．C605 |
| A11427－123K2 | 0.012 MF 50 V 10\％LHIP | 2 | ᄃ112．E212 |
| A11427－272K2 | 270日FF 50V 10\％CHIP 0日05 | 2 | ᄃ117，C217 |
| A11427－472K2 | 470日PF 50V 10\％×7R ロ日®5 | 4 | C116，С119．C21B，C219 |
| A12125－3140K | WIRE， 22 WHT $3 / 16 \times 14 \times$ FAST | 1 | WP6 |
| C 2851－1 | 1 N 4004 SILICON RECT． | 7 | D1，D2，D3，D4，D6，D7，D10 |
| C 3510－2 | CHOKE，470LH 10\％AXIAL | 4 | L100．L101．L200．L201 |
| ［ 3549－8 | DIODE ZENER，10V． 1 N5240日 | 1 | D日 |
| C 3679－5 | 33UF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4．［5 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
CROWN INTERNATIDNAL INC． AS TME OASIS FIR THE MMNUFACTUAE OR SALE


PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| C 5095－2 | POS． 15 VOLT REG． | 1 | ப1 |
| ᄃ 5096－0 | NEG． 15 VOLT REG． | 1 | ப2 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| ᄃ 6日02－0 | 47 MF 50V AX CERM | 2 | C102．c202 |
| C 7091－9 | 0.33 MF 50 V CHIP 1206 | 3 | C22．C140．C240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 744日－1 | MMPT3904 CHIP NPN | 6 | Q100，Q101，0129， $0200,0201,0229$ |
| C 8262－5 | MC33®7日D DUAL LO NOISE OP AM | 4 | ப4，ப5，ப1 85，ப205 |
| C $6576-8$ | 100 MF 35V 10\％ELEC | 1 | C26 |
| C 9012－3 | MC33079D QUAD LO NOISE OP AM | 3 | U101．U201． 4500 |
| C 9838－8 | COMPARATOR，QUAD LM339D SO－1 | 4 | ப102，ப104，ப202，ப204 |
| C 9157－6 | 10DUF $16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／ | 2 | C123．C223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | Q104．0204 |
| C 9283－0 | DIODE，1N914／1N414日 SOT－23 S | 56 | D9，D13．D101．D182．D103．D104． |
|  |  |  | D105．D106．D107，D108，D109， |
|  |  |  | D110，D111．D112，D113，D116， |
|  |  |  | D117．D1 18，D119．D120，D121． |
|  |  |  | D122．D123．D124．D125，Di26， |
|  |  |  | D127．D128，D129，D130，D201， |
|  |  |  | D202，D203，D204，D205，D206， |
|  |  |  | D207，D208．D299，D210，D211， |
|  |  |  | D212．D213．D216．D217．D21日， |
|  |  |  | D221，D222，D223，D224，D225． |
|  |  |  | D226．D227，D22日，D229，D230 |
| ［ 9896－9 | TEST POINT LOOP | 2 | TP3日．TP39 |
| C 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | U1X．U2X |
| C 9931－4 | MMET5Q日7LT1 PNP XSISTOR SOT－ | 6 | Q102．0109，प111．0202．0209，0211 |
| C10198－1 | 2．2MF 50V $20 \%$ RAD T／R | 4 | C121．C124．ᄃ221．C224 |
| C18208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105．c205 |
| C1B422－1 | DIODE．ЗA 400V 1N5404 AXIAL | 4 | D114．D115．D214．D215 |
| C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134．R234 |
| D 8917－3 | 日20日UF 11日VDC ELECTROLYTIC | 2 | C20，C21 |
| H42902－9 | ASM，THERMAL SENSE | 2 | ப1ロロ，ப206 |
|  |  |  |  |
| 101016－1 | LBL．BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON，ALTO INSERTABLE | 3 | WP4，WPS．WP7 |
| 101571－1 | HDR 2 PQS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK，6P4 COND MODULAR R／A | 1 | J5 |
| 102138－9 | PW日．CE1日Q日／LE2QO日 MAIN／INPU | 1 | 1 |
| 102438－101K2 | 100PF 200V 10\％NPO 0805 | 6 | C104，С120．C135，C204．С220，C235 |
| 102438－560K2 | 56PF 200V 10\％NPO 0805 | 4 | C106，С206，С504，C604 |
| 10243日－日20K2 | B2PF 20日V 10\％NPD 0805 | 4 | C10日，С13日．c208，C238 |
| 102455－1 | 47UF 50V 20\％RADIAL T／R | 2 | C101．c201 |
| 102465－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102457－1 | 22MF $25 \mathrm{~V} 20 \%$ RAD T／R | 4 | C103．C203．C503．C603 |
| 1024E日－1 | 47UF 10V 20\％NP RAD T／R | 4 | C113．C114．C213．C214 |
| 102470－1 | INDUCTOR，2．75UH 11A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR． 12 POS 2.5 MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，16POS． 100 LTR SGL ROW | 1 | 13 |

## INACTIVE

For Reference Use Only

## PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| 102473－1 | SPEAKDN， 4 POLE PCE HORZ | 2 | J100．」200 |
| 102475－1 | 日LOCK． 5 POS TERMINAL | 1 | TB1 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1．E101．E201 |
| 102477－1 | LED，SMT R／A RED | 4 | E100．E182，E200，E202 |
| 102478－1 | TRIAC DRIVER SES BV THRESH | 2 | Q132．0232 |
| 102479－1 | PWR MJD112 NPN DARLINGTON 10 | 3 | Q1．Q2．Q3 |
| 102480－1 | FET．N－CH 25V 5＠MA SOT－23 | 2 | Q133．0233 |
| 102481－1 | NPN 25V LOW NOISE SOT－23 | 2 | Q108．020日 |
| 102483－1 | PNP 30®V 50®MA SOT－23 | 2 | Q183．4203 |
| 102485－1 | OPTO 日JT NPN SOIC－8 CTR $=100$ | 1 | U3 |
| 102488－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102569－3 | HS ASM，Ti ISOLATED CHi．， | 1 | H53 |
| 102570－3 | HS ASM，T1 ISOLATED CH2，， | 1 | HS 4 |
| 102571－3 | HS ASM．T1 NON－ISOLATED CH1， | 1 | HS 1 |
| 102572－3 | HS ASM．T1 NON－ISOLATED CH2， | 1 | HS 2 |
| 102579－1 | STAND， $1 / 4$ RD SWAGE AL | 2 | HW25，HW26 |
| 102595－3 | POT．5K LIN 21 DNT 12MM HORI | 2 | R100．R200 |
| 10260日－1 | SPACER，6X． 187 LONG ALUMINUM | 8 | HW1，HW2，HW3，HW4，HW5，HW6，HW7， |
|  |  |  | HWG |
| 102723－2 | OPTO CELL ON＝500 OHM | 2 | U10®．U200 |
| 103180－1 | BUMPER．0．4＂TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 0．47UF Z5U $121820 \% 50 \mathrm{~V}$ | 2 | C144．C244 |
| 103192－1 | NPN 308V 50QMA 50MHZ SQT－223 | 4 | Q107．0110．0207．0210 |
| 103193－1 | PNP 30QV 50QMA 50MHZ SQT－223 | 4 | Q105．0120．0205．0220 |
| 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512$ T／R | 38 | R1．R7，R152．R153，R156，R157． |
|  |  |  | R159，R167，R168，R171，R172， |
|  |  |  | R252．R253，R256，R257，R259， |
|  |  |  | R267，R26日，R271，R272，R300， |
|  |  |  | R301，R302，R305．R306，R307． |
|  |  |  | R30日．R311．R312．R400，R401， |
|  |  |  | R402．R405，R406．R407，R408， |
|  |  |  | R411． R 412 |
| 103210－1 | 2．2UF 150 V RADIAL T／R | 4 | C136．ᄃ137．C236．C237 |
| 103331－N050R | WIRE， 15 日LK／WHT TAB $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103435－70608 | SCREW，6－32 $\times .5$ TORX PNHD SEM | 2 | HW27，HW2 |
| 125106－1 | MACGD 8 AMP 400V TRIAC | 2 | Q131．Q231 |
| 125242－1 | CAP．． $625 I D \times 1^{\prime \prime}$ VINYL | 1 | 3 |
| 12547日－1 | 3．日3KOHM 0．50W 1\％2010 T／R | 2 | P1 42，F242 |
| 1254日2－1 | ADHESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 125508－1 | 10UF 50VDC ELECTROLYTIC SMD | 2 | C3．c30 |
| 126317－1 | REL．30A 24 V SPST PCB W／FAST | 2 | K100，K200 |
| 128日25－1 | SILICONE，CLEAR 30Z SYRINGE | $\square$ | 4 |
| 128929－1 | 1／4＂TRS／XLR COMBO PCE VERT | 2 | J500．J600 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
CROWN INTERNATIONAL INC．

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 102466－1 | 10UF 250V 20\％RADIAL T／R | J 8 |
| C2 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F 9＊ |
| C3 | 125508－1 | 1日UF 50VDC ELECTROLYTIC SMD | I 8 |
| C4 | C 4477－3 | 470 MF 35 V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35 V VERT | G 9 |
| C6 | A11427－104K2 | 0． 1 MF 50V 18\％D日05 | H 10＊ |
| C7 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H 9＊ |
| C12 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | I 9＊ |
| C20 | D 8917－3 | 8200UF 11日VDC ELECTRDLYTIC | C 9 |
| C21 | D 8917－3 | 820ロபF 110VDC ELECTROLYTIC | 日 9 |
| C22 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | N $9^{*}$ |
| C24 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | N 9＊ |
| C25 | A11427－104K2 | D． 1 MF 50V 10\％B805 | 0 9＊ |
| C26 | C 8576－8 | 100 MF 35V 10\％ELEC | I 9 |
| C27 | C 5382－5 | 2．2 MF 50V VERT | H 10 |
| C2日 | A11427－104K2 | 0.1 MF 50V 10\％0805 | J 9＊ |
| C29 | A11427－104K2 | 0.1 MF 50V 10\％0805 | I 9＊ |
| C30 | 12550日－1 | 10UF 5aVDC ELECTROLYTIC SMD | I 8 |
| C31 | C 3679－5 | 33UF 50V 20\％VERT ELEET | I 10 |
| C101 | 102455－1 | 47பF 50V 20\％RADIAL T／R | M 9 |
| C102 | C 6802－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102457－1 | 22MF 25V 20\％RAD T／P | M 9 |
| C104 | 10243日－101K2 | 10ロPF 200V 10\％NPO 0805 | M 9＊ |
| C105 | C1020日－4 | $10 \square \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－560k2 | 56PF 200V 10\％NPD 0805 | L 9＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPD 0805 T／R | L．${ }^{*}$ |
| C10日 | 18243日－820K2 | 日2PF 200V 10\％NPO 0805 | L 10＊ |
| C109 | A11427－103K2 | 0． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H E＊ |
| C119 | A11369－471K2 | 470PF 50V 10\％NPG 0805 T／R | M 7＊ |
| C111 | A11427－103K2 | 0．01MF 50V $10 \%$ CHIP 0805 | N 8＊ |
| C112 | A11427－123K2 | 0．012 MF 50V 10\％CHIP | 0 8＊ |
| C113 | 102458－1 | 47LF $10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | N 8 |
| C114 | 102468－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C115 | A1 1427－104K2 | 0.1 MF 50V 10\％0805 | N 8＊ |
| C116 | A11427－472K2 | 470日FF 50V 10\％×7R 0日05 | N 7＊ |
| C117 | A11427－272K2 | 270日PF 50V 10\％CHIP 0805 | I 7＊ |
| C118 | A10434－104JD | $0.1 \mathrm{MF} 250 \mathrm{~V} 5 \% \mathrm{MTL}$ POLY | I 8 |
| C119 | A11427－472K2 | 4700PF 50V 10\％X7R 0日05 | $17 *$ |
| C120 | 102430－101K2 | 100PF 20日V 10\％NPO 0日05 | I 7＊ |
| C121 | C10196－1 | 2．2MF 50V 20\％RAD T／R | G 8 |
| C122 | A11427－184K2 | 0． 1 MF 50V 10\％ 0805 | F $8^{*}$ |
| C123 | C 9157－8 | 10日LF 16 V 20\％NP ELEC RAD T／R | F 8 |
| C124 | C10196－1 | 2．2MF 50V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | 0．1 MF 50V 10\％ 0805 | N 10＊ |
| C127 | A11427－104K2 | 0．1 MF 50V 10\％0805 | N 9＊ |
| C128 | A11427－104K2 | 0．1 MF 50V 10\％0805 | M 10＊ |
| C129 | A11427－104K2 | 0．1 MF 50V 10\％ 0805 | M ${ }^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C130 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H $8^{*}$ |
| C131 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H ${ }^{*}$ |
| C132 | A11427－1日4K2 | B． 1 MF 50V $10 \%$ 0日05 | F 7＊ |
| C133 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | F $\mathrm{B}^{*}$ |
| C134 | A11369－182J2 | 0.001 LF 50 V 5\％NPO MLC ロ日05 T／ | M 7 ＊ |
| C135 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | N 7＊ |
| C136 | 103210－1 | 2． 2 LF 1 60 V RADIAL T／R |  |
| C137 | 103218－1 | 2．2UF 160V RADIAL T／R | 17 |
| C138 | 102438－820K2 | 日2PF 20DV 10\％NPO 0805 | M 7＊ |
| C139 | A11427－104K2 | 0．1 MF 50V 10\％0005 | G 7＊ |
| C140 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | L 9 |
| C141 | A1136s－471K2 | 470PF 50V 10\％NPQ 0805 T／R | N 10 |
| C142 | A11363－330J2 | 33PF 50V 5\％NPO MLC 0805 | M 18 |
| C143 | A11427－103K5 |  | M 9＊ |
| C144 | 103191－1 | 0．47UF Z5U $121820 \% 50 \mathrm{~V}$ | G 7＊ |
| C201 | 102465－1 | 47UF 50V 20\％RADIAL T／R | 」 9 |
| C202 | C 6日02－0 | 47 MF 50 V AX CERM | $K 9$ |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | J 9＊ |
| C205 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| C206 | 102438－560K2 | 56PF 200V 10\％NPO 0805 | 」 9＊ |
| C207 | A1136S－270K2 | 27PF 50V 10\％NPO 0B05 T／R | 」 9＊ |
| C20日 | 102438－820K2 | 日2PF 200V 10\％NPO D805 | 」10＊ |
| C209 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0日05 | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V $10 \%$ NPO 0日05 T／R | K 7＊ |
| C211 | A11427－103K2 | 0． 01 MF 50 V 10\％CHIP 0805 | K 7＊ |
| C212 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | L 日＊ |
| C213 | 102468－1 | 47பF 10V 20\％NP RAD T／R | K 8 |
| C214 | 102468－1 | 47பF 18V 20\％NP RAD T／A | K 日 |
| C215 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | K 日＊ |
| C216 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 」 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | D 1 ＊ |
| C21日 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 470日FF 50V 10\％X7R 0日05 | E 1＊ |
| C220 | 102438－101K2 | 100PF 200V 10\％NPO 0日05 | D 2＊ |
| C221 | C10196－1 | 2．2MF 50V 20\％RAD T／R | E 8 |
| C222 | A11427－104K2 | 0.1 MF 50V 10\％0005 | E $日^{*}$ |
| C223 | C 9157－6 | 100UF 15V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | 」 9 |
| C226 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | K 10＊ |
| C227 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | K 9＊ |
| C228 | A11427－104K2 | 0.1 MF 50V 10\％0805 | 」 10＊ |
| C229 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | 」 ＊＊$^{\text {＊}}$ |
| C230 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | E $日^{*}$ |
| C231 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | E 7＊ |
| C232 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | E 7＊ |
| C233 | A）1427－104K2 | D． 1 MF 50V 10\％ 0805 | D 日＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C234 | A11369－102J2 | 日．0®§UF 50V 5\％NPO MLC 日日®5 T／ | 」 7＊ |
| C235 | 182438－101K2 | 10日PF 200V 10\％NPO 日日B5 | 」 2＊ |
| C236 | 10321日－1 | 2．2LF 16日V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2．2UF 160 V RADIAL T／R | I 1 |
| C238 | 102438－820K2 | 日2PF 200V 10\％NPO 0805 | 」 7＊ |
| C239 | A11427－104K2 | D． 1 MF 50V 18\％ 0805 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | L 10 |
| C242 | A11369－330」2 | 33 PF 50 V 5\％NPQ MLC 0日05 | K 10 |
| C243 | A11427－103K5 | D． 01 MF 50 V 5\％×7R 1206 | K 9＊ |
| C244 | 103191－1 | 0．47LF Z5U $121020 \% 50 \mathrm{~V}$ | E 7＊ |
| C500 | A1 1369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | A 2 |
| c501 | A11369－126K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | A 2 |
| Cs02 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | 日 2 |
| C503 | 102467－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C504 | 102438－560K2 | 56PF 200V 10\％NPQ 0805 | A 2 |
| C505 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0805 | A 2 |
| C506 | A11427－104K2 | 0.1 MF 50V $10 \%$ 0日05 | A 2 |
| C509 |  | QPEN | B 2 |
| C600 | A1 1369－120K2 | $12 P F 50 V 10 \%$ NPO 0805 T／R | A 2 |
| C601 | A11369－120K2 | 12 PF 50 V 10\％NPO 0805 T／R | A 1 |
| C602 | A11369－120K2 | 12PF 50V 10\％NPO 0日05 T／R | A 2 |
| C603 | 102467－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C604 | 102438－560k2 | 56PF 200V 10\％NPD 0805 | B 2 |
| E605 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | A 1 |
| C606 | A11371－1501 | 15 DHM ロ．1W 5\％CHIP 0B05 | C 3 |
| C607 | A11371－1501 | 15 OHM 0．1W 5\％CHIP 0日B5 | C 3 |
| c508 | A11371－1501 | 15 OHM 0．1W 5\％CHIP 0805 | 日 1 |
| C609 |  | OPEN | 日 2 |
| D1 | C 2851－1 | 1 N4004 SILICON RECT． | 69 |
| D2 | C 2851－1 | 1 N4004 SILICDN RECT． | G 10 |
| D3 | C 2851－1 | 1N4004 SILICON PECT． | G 10 |
| D4 | C 2851－1 | $1 \mathrm{N4004}$ SILICON RECT． | G 10 |
| D6 | C 2851－1 | 1N40日4 SILICON RECT． | J B |
| D7 | C 2851－1 | 1 N4004 SILICON RECT． | 」 日 |
| D8 | C 3549－8 | DIODE ZENER．10V． 1 N5240日 | J 8 |
| D9 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | $1{ }^{\text {\％}}$ |
| D10 | C 2851－1 | 1 N40日4 SILICON RECT． | I 10 |
| D13 | C 9293－0 | DIODE．1N914／1N414日 SOT－23 SMT | I 9＊ |
| D101 | ᄃ 92日3－0 | DIODE．1N914／1N414日 SOT－23 SMT | N 9＊ |
| D102 | C 9283－0 | DIODE， 1 N914／1N414日 SOT－23 SMT | N 9＊ |
| D103 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | L 9＊ |
| D104 | C 92日3－0 | DIODE．1N914／1N414日 SDT－23 SMT | M 9＊ |
| D105 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | L 9＊ |
| D106 | ᄃ 92日3－0 | DIODE，1NS14／1N414日 SOT－23 SMT | N $日^{*}$ |
| D107 | ᄃ 928コー0 | DIODE．1NS14／1N414日 SDT－23 SMT | N 日＊ |
| D108 | C 9283－0 | DIDDE，1N914／1N4148 SOT－23 SMT | N $\mathrm{Q}^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| D109 | C 9283－0 | DIODE． 1 N914／1N414日 SOT－23 SMT | N 8＊ |
| D110 | C 9263－0 | DIODE，1NS14／1N4148 SOT－23 SMT | N $8^{*}$ |
| D111 | ［ 92日3－0 | DIODE，1NS14／1N414日 SOT－23 SMT | N 8＊ |
| D112 | C 92日3－8 | DIODE，1N914／1N414日 SOT－23 5MT | N 8＊ |
| D113 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N ${ }^{*}$ |
| D114 | C10422－1 | DIODE，3A 400V 1 N 5404 AXIAL | 16 |
| D115 | C10422－1 | DIODE， 3 A $409 \mathrm{~V} 1 \mathrm{N5404} \mathrm{AXIAL}$ | I 5 |
| D115 | C 3283－0 | DIODE， $1 \mathrm{NGI4/1N414日} \mathrm{SOT-23} \mathrm{SMT}$ | G 8＊ |
| D117 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | M 10＊ |
| D118 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | N 10＊ |
| D119 | C 9283－0 | DIODE． 1 NS14／1N4148 SOT－23 SMT | I 9＊ |
| D120 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | 1 9＊ |
| D121 | C 3283－0 | DIODE．1NS14／1N414日 SOT－23 SMT | L 9＊ |
| D122 | C 9283－0 | DIODE，1NS14／1N414日 SOT－23 SMT | M $\mathrm{g}^{*}$ |
| D123 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | G 9＊ |
| D124 | C 9283－0 | DIODE， $1 \mathrm{N914/1N414B} \mathrm{SOT-23} \mathrm{SMT}$ | G 7＊ |
| D125 | c 9283－0 | DIODE， 1 NS 4 ／／1N414日 SOT－23 SMT | H 7＊ |
| D1 26 | C 9283－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | M 7 |
| D127 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | M 8 |
| D128 | C 9283－0 | DIODE， 1 N914／1N4148 SOT－23 SMT | G 7＊ |
| D1 29 | C 9283－0 | DIODE． 1 NS14／1N4148 SOT－23 SMT | G 6＊ |
| D1 30 | C 9283－8 | DIODE．1NS14／1N414日 SOT－23 SMT | M 9 |
| D201 | C 9283－0 | DIODE．1N914／1N414日 50T－23 SMT | K 9＊ |
| D202． | C 9283－0 | DIODE，1N314／1N4148 SOT－23 SMT | K G＊$^{*}$ |
| D203 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 $9^{*}$ |
| D204 | C 9283－0 | DIODE， 1 NS14／1N4148 SOT－23 SMT | 」 」＊$^{\text {d }}$ |
| D205 | C 9283－b | DIODE，1N914／1N4148 SOT－23 SMT | 」 9＊ |
| D206 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | K $\mathrm{B}^{*}$ |
| D207 | C 92日3－0 | DIODE，1NS14／1N414日 SOT－23 SMT | K 日＊ |
| D208 | C 92日3－a | DIODE，1N914／1N414B SOT－23 SMT | K 7＊ |
| D209 | C 3263－8 | DIODE， 1 NS14／1N4148 SOT－23 SMT | K $B^{*}$ |
| D210 | C 9283－0 | DIDDE，1N914／1N414B SOT－23 SMT | K $日^{*}$ |
| D21．1 | C 92日3－b | DIODE，1N914／1N414日 SOT－23 5MT | K $B^{*}$ |
| D212 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K $8^{*}$ |
| D213 | C 9283－8 | DIODE，1N914／1N414日 SOT－23 SMT | K $B^{*}$ |
| D214 | C18422－1 | DIODE，3A 400V 1 N 5484 AXIAL | 13 |
| D215 | C10422－1 | DIODE，3A 400V $1 N 5404$ AXIAL | 12 |
| D216 | C 9283－0 | DIODE．1N914／1N4148 SAT－23 SMT | E $8^{*}$ |
| D217 | C 9283－0 | DIODE．1NS14／1N4148 SOT－23 SMT | K 10＊ |
| D218 | C 32日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | L 10＊ |
| D221 | C 92日3－0 | DIODE，1NS14／1N4148 SQT－23 SMT | 」 \％$^{*}$ |
| D222 | ［ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 9＊ |
| D223 | C 9283－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | E 9＊ |
| D224 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | E 7＊ |
| D225 | C 9283－0 | DIODE．1N914／1N414B SOT－23 SMT | F 7＊ |
| 0226 | C 32日3－8 | DIODE．1N914／1N414日 SOT－23 SMT | $K 7$ |
| D227 | ［ 92日3－0 | DIDDE，1NS14／1N414B SDT－23 SMT | $K 8$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D228 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | E 7＊ |
| D229 | C 9283－6 | DIODE，1N914／1N414日 SOT－23 SMT | F 6＊ |
| D230 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | $K 9$ |
| E1 | 102476－1 | LED，SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | J 1 |
| E101 | 102476－1 | LED，SMT R／A GREEN | J 1 |
| E102 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E201 | 102476－1 | LED．SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| H11 |  | OPEN |  |
| H14 |  | OPEN | I 8 |
| H18 |  | OPEN | D 8 |
| HS 1 | 102571－3 | HS ASM．T1 NON－ISOLATED CHi． |  |
| HS2 | 102572－3 | HS ASM．T1 NON－ISOLATED CH2． |  |
| HS 3 | 102569－3 | HS ASM．T1 ISOLATED CHi． |  |
| HS4 | 102570－3 | HS ASM，T1 ISOLATED CH2． |  |
| HW1 | 102608－1 | SPACER，6X． 187 LONG ALUMINUM | A 4 |
| HW2 | 102608－1 | SPACER，6X． 187 LONG ALUMINUM | A 4 |
| HW3 | 102608－1 | SPACEA．6x． 187 LONG ALUMINUM | A 4 |
| HW4 | 102608－1 | SPACEA，EX． 187 LONG ALUMINUM | A 4 |
| HWS | 102608－1 | SPACER． $6 \times .187$ LONG ALUMINUM | A 4 |
| HW5 | 102508－1 | SPALER，6X． 187 LONG ALUMINUM | 目 4 |
| HW7 | 102608－1 | SPACER．EX． 187 LONG ALUMINUM | 日 4 |
| HWG | 102508－1 | SPACEA，EX． 187 LONG ALUMINUM |  |
| HW | A10020－7 | 6－32 $\times$ ． 625 PCE CAPTIVE STUD | D 5 |
| HW10 | A10020－7 | E－32 $\times .625$ PCG CAPTIVE 5TUD | I 6 |
| HW1 1 | A10028－7 | E－32 $\times$ ． 625 PCE LAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | E－32 $\times .625$ PCB CAPTIVE STUD | I 3 |
| HW1 3 | A18020－7 | 6－32 $\times .525$ PCB CAPTIVE 5TUD | 」 5 |
| HW1 4 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 6 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW16 | A10020－7 | $5-32 \times .625$ PCB CAPTIVE STUD | N 3 |
| HW1 7 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1日 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW19 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW20 | A11056－1 | 6－32 HEX NUT W／EELLEVILLE | A 4 |
| HWZ 1 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW22 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW23 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW24 | A1 1056－1 | 6．32 HEX NUT W／BELLEVILLE | B 4 |
| HW2S | 102579－1 | STAND， $1 / 4$ AD SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND， $1 / 4$ RD SWAGE AL | A 4 |
| HW27 | 103435－70608 | SCREW，6－32 $\times$ ． 5 TORX PNHD SEM | A 4 |
| HW2日 | 103435－70608 | SCREW，5－32 $\times$ ． 5 TORX PNHD SEM | A 4 |
| J2 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J3 | 102472－3 | HDR．16FOS． 100 CTR SGL AOW | M 8 |
| J 4 | 101571－1 | HDR 2 POS ． 1 LTR MTA SHRD | L 10 |
| J5 | 101993－1 | JACK，6P4 COND MODULAF R／A |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


CROWN INTERNATIONAL INC．

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 」100 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| 」200 | 102473－1 | SPEAKON． 4 POLE PCB HORZ | F 10 |
| 1500 | 126929－1 | 1／4＂TRS／XLR COMBO PCE VERT | 日 3 |
| J502 | 102471－2 | HDR．12POS 2．5MM RT ANG KEYED | C 1 |
| 」600 | 126929－1 | 1／4＂TRS／XLR COMBD PCE VERT | B 1 |
| K100 | 126317－1 | REL，30A $24 V$ SPST PCE W／FASTON | 69 |
| K200 | 126317－1 | REL． 30 A 24V SPST PCB W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE，470UH 18\％AXIAL | N 7 |
| L101 | C 3510－2 | LHOKE，470UH 18\％AXIAL | 17 |
| L102 | 102470－1 | INDUCTOR， 2.75 UH 11 A RADIAL | H ${ }^{1}$ |
| 1200 | C 3510－2 | CHOKE，470UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | EHOKE，470UH 10\％AXIAL | D 1 |
| L292 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | I 1 |
| 01 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| 02 | 102479－1 | PWR MJD112 NPN DARLINGTON $100 V$ | I 10 |
| 03 | 102479－1 | PWR MJD1 12 NPN DARLINGTON 100 V | I 10 |
| 0100 | C 744日－1 | MMBT3904 CHIP NPN | M 9＊$^{*}$ |
| 0101 | C 744日－1 | MMET3904 CHIP NPN | M $9^{*}$ |
| 0102 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N 9＊ |
| 0103 | 1024日3－1 | PNP 300V 500MA SOT－23 | L 9＊ |
| Q104 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | 16 |
| Q105 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | M ${ }^{*}$ |
| 0107 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | M 7＊ |
| Q108 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | N 8＊ |
| 0109 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SQT－23 | N $\mathrm{B}^{*}$ |
| Q118 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | N 7＊ |
| Q111 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q120 | 103193－1 | PNP 300V 500MA 50MHZ 50T－223 | I ${ }^{*}$ |
| Q129 | C 744日－1 | MMET3904 LHIP NPN | 6 9＊ |
| Q131 | 125106－1 | MAC9D 日 AMP 400V TRIAC | F 9 |
| Q132 | 10247日－1 | TRIAC DRIVER SES EV THRESH | F 9 |
| Q133 | 10248日～1 | FET，N－CH 25V 50MA SOT－23 | M 9＊ |
| 0200 | C 7448－1 | MMBT3904 CHIP NPN | K 9＊ |
| 0201 | C 744日－1 | MMBT3904 CHIP NPN | K 9＊ |
| Q202 | C 9931－4 | MMET50́7LT1 PNP XSISTOR SOT－23 | L ${ }^{*}$ |
| 0203 | 102483－1 | PNP 300V 50QMA SOT－23 | J ${ }^{*}$ |
| 0204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| 0205 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 」 7＊ |
| 0207 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | K 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only THESE DAAWINGS AND SPELEICATIONS AAE THE
 APPABATUS OAR DEVICES WI THOLT PEAMISSION．

CROWN INTERNATIDNAL INC． t718 west mishamaka road elkhart．indiana 485t？



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| Q208 | 102481－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| 0209 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SQT－23 | 大 $\mathrm{O}^{*}$ |
| 0210 | 103192－1 | NPN 300V 500MA 50MHZ S0T－223 | 」 2＊ |
| प211 | ［ 9931－4 | MMET50日7LT1 PNP $\times 5$ ISTOR SOT－23 | J 2＊ |
| 0220 | 183193－1 | PNP 300V 500MA 50MHZ S0T－223 | D $\mathbf{2 *}^{*}$ |
| 0229 | C 744日－1 | MMBT3904 LHIP NPN | E 9＊ |
| 0231 | 125106－1 | MACSD 8 AMP 400V TRIAC | E 9 |
| 0232 | 10247日－1 | TRIAC DRIVER SES 8V THRESH | F 8 |
| Q233 | 1024日处 | FET，N－CH 25V 50MA SOT－23 | 」 ＊＊$^{\text {a }}$ |
| R1 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | 」 $日^{*}$ |
| R2 | A11371－2225 | 2． 2 K 1W 5\％CHIP 2512 | J 8＊ |
| F3 | A11371－3341 | 330 K 0.10 W 5\％CHIP 0805 | I $8^{*}$ |
| R4 | A11371－3313 | 330 OHM D．25W 5\％CHIP | I 1＊ |
| R5 | A1136日－69811 | 6．9日K DHM ®．18W 1\％LHIP 0805 | D $\mathrm{B}^{*}$ |
| R6 | A11368－93111 | 9．31K 0．1W 1\％CHIP 0805 | D $\mathrm{B}^{*}$ |
| R7 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 $\mathrm{Q}^{*}$ |
| RB | A11371－1022 | 1K D．125W 5\％CHIP 1206 | N 10＊ |
| RS | A1136日－10921 | 10K 1／18W \％\％CHIP 0885 | H 9＊ |
| R10 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | I 9＊ |
| 912 | A11368－68121 | 68．1K 0．10W 1\％CHIP | I 9＊ |
| 813 | A11371－1011 | 100 OHM 0．10W 5\％LHIP 0805 | I 10＊ |
| R14 | A11371－0R21 | 0．2 OHM 0．10W 5\％CHIP 0885 | I 10＊ |
| R15 | A11371－UR21 | 0．2 OHM 0．10W 5\％LHIP 0日05 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％EHIP | N 9＊ |
| R17 | A11368－82511 | 日．25K 0．1W 1\％LHIP 0805 | F 10＊ |
| R18 | A11368－71511 | $7.15 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | D $8^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | $1{ }^{\text {1＊}}$ |
| R20 | A11368－57621 | 57．6K 0．10W 1\％CHIP 2805 | I 9＊ |
| R21 | A11368－12121 | 12.1 K OHM 0．10W 1\％CHIP 0e05 | 」 9＊ |
| P22 | A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0885 | I 9＊ |
| R23 | A11368－39231 | $392 \mathrm{~K} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{EHIP} \mathrm{0805}$ | 1 9＊ |
| R24 | A11368－57821 | 57． 5 K Q． $10 \mathrm{~W} 1 \%$ CHIP 0805 | I 9＊ |
| R25 | A11368－10031 | 108K 0．1W 1\％CHIP 0日®S | N 9＊ |
| R26 | A11371－3341 | 330K 0．10W 5\％LHIP 0805 | A 5＊ |
| R27 | A11368－20021 | 20K $0.10 \mathrm{~W} 1 \%$ CHIP D日05 | L 9＊ |
| R28 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| PEF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| R30 | A11368－10031 | 100K 日．1W 1\％CHIP 0805 | I $\theta^{*}$ |
| R31 | A113E日－18031 | 100K 0．1W 1\％CHIP 0805 | J 日＊ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J B |
| R33 | A11371－0R21 | 0．2 OHM 8．10W 5\％LHIF 0805 | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 8 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12 MM HORIZ | L 1 |
| R101 | A11368－10011 | 1K B．10W 1\％CHIP D日05 | M 10＊ |
| R102 | A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D805 | N ${ }^{*}$ |
| R103 | A11368－49901 | 459 OHM ®． $10 \mathrm{~W} 1 \%$ LHIP DBO5 | N 9＊ |
| R104 | A1 1 368－10021 | 10K 1／10W 1\％CHIP 0日05 | N $3^{*}$ |
| R105 | A11371－6814 | 5日0 OHM $0.50 \mathrm{~W} 5 \%$ CHIP | 」 1＊ |
| f106 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | M 9＊ |
| R107 | A11368－10021 | 10K 1／10W 1\％CHIP D日05 | L 10＊ |
| R108 | A1：358－10021 | 10K 1／10W 1\％EHIP 0805 | L 10＊ |
| R109 | A11368－19122 | 19.1 K D． $125 \mathrm{~W} 1 \%$ CHIP 1206 | M 9＊ |
| R110 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0BE5 | L 3＊$^{*}$ |
| R111 | A11368－10021 | 1日K 1／10W 1\％CHIP 0日05 | L 9＊ |
| R112 | A10265－19121 | 19．1K D．25W 1\％MF |  |
| R113 | A11368－51111 | 5．11K OHM 0．10W 1\％CHIP 0B05 | L 10＊ |
| R114 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0日05 | L 10＊ |
| R115 | A11368－68121 | 68．1K 日．10W 1\％CHIP | L 10＊ |
| R116 | A1 1368－22601 | 226 OHM D．10W 1\％CHIP 0a05 | M 9＊ |
| Q117 | A11371－3341 | 330 K D． $10 \mathrm{~W} 5 \%$ CHIP 0日05 | M S＊ |
| A11日 | A11368－68111 | 6．81K OHM 0．18W 1\％CHIP B日05 | M 1 |
| R119 | A11371－3333 | 33K D．25W 5\％CHIP 1210 | M ${ }^{*}$ |
| R120 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | M 9＊ |
| R121 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | M 10 |
| R122 | A11368－15831 | 158K 0．10W 1\％CHIP 0805 | N 9＊ |
| R123 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | M 9＊ |
| F1 24 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | M 9＊ |
| R125 | A1136日－10031 | 180K 0．1W $1 \%$ CHIP 0805 | N 9＊ |
| R126 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0805 | M 9＊ |
| R127 | A11371－6821 | 6．8K 0．10W 5\％CHIP 0805 | N 9＊ |
| R12日 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－821 | 820 OHM 0．10W 5\％CHIP | N $7 *$ |
| R130 |  | OPEN | O E＊ |
| R131 |  | OPEN | O $\mathrm{B}^{*}$ |
| R132 | A11371－2223 | 2．2K 0.25 W 5\％CHIP 1210 | H $\mathrm{E}^{*}$ |
| R133 | A11371－7511 | 758 OHM 0．18W 5\％CHIP | H 5＊ |
| R134 | C10613－5 | 1K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7 ＊ |
| R136 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M 7＊ |
| R137 | A1136日－15002 | 158 OHM 0．125W $1 \% \mathrm{CHIP}$ | N 8＊ |
| R138 | A11371－1213 | 120 OHM 0．25W 5\％EHIP | N $8^{*}$ |
| R139 | A1136日－13703 | 137 OHM 0．25W $1 \%$ CHIP | N $8^{*}$ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1218 | N $\mathrm{B}^{*}$ |
| R141． | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | C 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R142 | 125478－1 | 3．83KOHM ®．50W 1\％2010 T／R | O $\theta^{*}$ |
| R143 | A11371－3333 | 33 K D． $25 \mathrm{~W} 5 \%$ CHIP 1210 | N 日＊ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 日＊ |
| F14 45 | A11371－1213 | 120 DHM 0．25W 5\％CHIP | N 日＊ |
| R146 | A11371－1331 | 13 K OHM D． 10 W 5\％CHIP 0805 | N 7＊ |
| R147 | A11371－1011 | $10 \square$ OHM 日．10W 5\％CHIP 0805 | N 7＊ |
| R14日 | A11371－1日11 | 1 日0 OHM D． 10 W 5\％CHIP | M 7＊ |
| R150 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | N $6^{*}$ |
| R152 | 103199－1 | 0.4 DHM $1 \mathrm{~W} 5 \% 2512$ T／R | K $\mathrm{B}^{*}$ |
| R153 | 103199－1 | 0.4 CHM 1W5\％ 2512 T／R | K 5＊ |
| R156 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | M 6 ＊ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | N 5＊ |
| R15日 | A10266－2R74 | 2．7 BHM 2W 5\％CF | I 日 |
| R159 | 103199－1 | 0． 4 DHM 1W 5\％2512 T／R | D 白＊ |
| R150 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | I 7＊ |
| R181 | A11371－1331 | 13K OHM D．10W 5\％CHIP BBD5 | H 7＊ |
| R162 | A11371－4701 | 47 OHM 日．10W 5\％CHIP | H 7＊ |
| R183 | A11371－1811 | 1日0 DHM 0．10W 5\％CHIP | I 7＊ |
| F195 | A11371－5R63 | $5.60 .25 W 5 \% \mathrm{CHIP}$ | I 5＊ |
| R167 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | E 6＊ |
| R168 | 103199－1 | 0.4 DHM 1W $5 \% 2512$ T／R | F $\mathrm{C}^{*}$ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | G 白＊ |
| R172 | 103199－1 | 0． 4 DHM 1W5\％ 2512 T／R | H 6 ＊ |
| R174 | A11368－60432 | 604K OHM 0．125W 1\％CHIP 1206 | G 8＊ |
| R175 | A11368－51111 | 5．11K OHM D．10W 1\％CHIP 0805 | G $日^{*}$ |
| R176 | A1136日－10021 | 10K 1／10W 1\％CHIP O日g | G $\mathrm{G}^{*}$ |
| R177 | A1136日－10021 | 10K 1／10W 1\％CHIP 日日05 | H 白＊ |
| R178 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0日®5 | N 9＊ |
| R179 | A11368－10031 | 1ロ®K $0.1 W 1 \%$ CHIP D日Q5 | F 7 ＊ |
| R1日0 | A1136日－39231 | 392K 0．10W 1\％CHIP 0805 | G $日^{*}$ |
| Fi日1 | A11371－6日14 | 6日® DHM Q．50W 5\％CHIP | 」 $1 *$ |
| R1日2 | A1136日－10021 | 10K 1／10W 1\％CHIP D日05 | F $\mathrm{B}^{*}$ |
| R1日3 | A1136日－10031 | 1明 0．1W 1\％CHIP 0日05 | F $8^{*}$ |
| R1旦4 | A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
| R185 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | G 8＊ |
| R186 | A1136日－10031 | 1日QK 日．1W 1\％CHIP 0日05 | N 10＊ |
| R1星7 | A1136日－15日31 | 158 K 8．10W 1\％CHIP 0805 | M 10＊ |
| R1日日 | A1136日－15831 | 158K 0．10W 1\％LHIP 0805 | N 10＊ |
| F189 | A1136日－10031 | 1日QK В．1W 1\％CHIP D805 | M 10＊ |
| R190 | A1136日－57621 | 57． 5 K 0.10 C 1\％CHIP 0日05 | N 6＊ |
| R191 | A1136日－22601 | 226 DHM 0．10W 1\％CHIP 0805 | N 6＊ |
| R192 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1206 | L 9＊ |
| R193 | A1135日－10021 | 10K 1／10W 1\％CHIP 昒5 | N 9＊ |
| R194 | A11371－8201 | 82 DHM 日．10W 5\％CHIP | M 7＊ |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | M 7＊ |
| R196 | A1136日－10021 | 10K 1／10W 1\％CHIP D805 | M 9＊ |
| R197 | A113E日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | M 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| THESE，DPAWINGSSAND SPELEIEATINNS AEE THE SHAL <br>  | 718 WEST MISHAWAKA ROAD |  |  | ELKHART．indiana |
| :---: | :---: | :---: | :---: | :---: |
|  | Dram | KLW | 03－83－99 |  |
|  | PROS． |  | 390d0 |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DE5 | C．P．N． | DESCRIPTION | MAP LOC． |
| R198 |  | OPEN | M 10 |
| R199 | A11371－6RD2 | Q．0 OHM JUMPER CHIP 1206 | N 日＊ |
| R200 | 102595－3 | POT．5K LIN 21 DNT 12MM HDRIZ | N 1 |
| R201 | A1136日－10011 | 1K 0．10W 1\％CHIP 0805 | K 10＊ |
| R202 | A11368－39231 | 392K 0．10W 1\％LHIP 0日05 | L 9＊ |
| R283 | A11 368－49901 | 499 OHM 0．10W 1\％CHIP 0805 | L 9＊ |
| R204 | A11368－10021 | 10K 1／1日W 1\％CHIP 0BD5 | L 9＊ |
| R205 | A11371－6814 | E日B OHM 0．50W 5\％CHIP | M 1＊ |
| R206 | A1136日－10011 | 1K D．10W 1\％CHIP 0805 | J 9＊ |
| R209 | A1136日－19122 | 19．1K 日． $125 \mathrm{~W} 1 \%$ CHIP 1206 | K $9^{*}$ |
| R210 | A1136日－10011 | 1 K 日．10W 1\％CHIP 0805 | 」 ¢＊$^{\text {J }}$ |
| R211 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | 」 9＊ |
| R212 | A10265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | J 9 |
| R213 | A1135日－51111 | 5.11 K OHM 0．10W 1\％CHIP 日日⿹勹 | 」 10＊ |
| R214 | A1136日－82511 | 日． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0日05 | 」10＊ |
| R215 | A1136日－6日121 | 6日． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | 」 10＊ |
| R216 | A1136日－22601 | 226 OHM ロ．10W 1\％CHIP 0日05 | K $9^{*}$ |
| R217 | A11371－3341 | 330K 0．10W 5\％LHIP 0日05 | 」 9＊ |
| R21日 | A1135日－68111 | 6.81 K OHM 0．10W 1\％CHIP 0805 | K 10 |
| A219 | A11371－3333 | 33 K Q．25W 5\％CHIP 1210 | 」 9＊ |
| R220 | A1136日－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 9＊ |
| R221 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0日05 | K 10 |
| R222 | A1136日－15日31 | 158K 0．10W 1\％CHIP 0005 | K 9＊ |
| R223 | A1136日－10031 | 100K 0．1W 1\％CHIP 0805 | K 9＊ |
| P224 | A1136日－15日31 | 158K 0．10W 1\％CHIP 0日05 | K 9＊ |
| P225 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | L 9＊ |
| R226 | A1136日－49921 | 49．9K 0．1W 1\％CHIP 0日05 | K 9＊ |
| R227 | A11371－6日21 | 6．8K 0．10W 5\％CHIP 0日05 | K $9^{*}$ |
| R228 | A11371－6814 | 6日0 OHM 0．50W 5\％CHIP | M 1 ＊ |
| R229 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | K 7＊ |
| A230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％LHIP | H 3＊ |
| f234 | C10613－5 | 1 K TQP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 7＊ |
| F236 | A11371－8201 | 82 DHM 日．10W 5\％CHIP | J 7＊ |
| R237 | A11368－15002 | 150 OHM 0．125W 1\％CHIP | K 日＊ |
| R23日 | A11371－1213 | 120 OHM 0．25w 5\％CHIP | K 7＊ |
| R239 | A1136日－13703 | 137 OHM D．25W 1\％EHIP | K ®＊$^{*}$ |
| R240 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 DHM 0．10W 5\％CHIP | L $8^{*}$ |
| F242 | 125478－1 | $3.83 \mathrm{KOHM} 0.50 \mathrm{~W} 1 \% 2010 \mathrm{~T} / \mathrm{R}$ | L 7＊ |
| R243 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K $\mathrm{B}^{*}$ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $日^{*}$ |
| R245 | A11371－1213 | 120 OHM 0．25W 5\％EHIP | K $\mathrm{B}^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 」 2＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R247 | A11371－1011 | 108 OHM E． 10 W 5\％CHIP 0805 | J $\mathbf{2}^{*}$ |
| R248 | A11371－1B11 | 180 DHM $0.10 \mathrm{C} 5 \% \mathrm{CHIP}$ | K $\mathbf{2}^{*}$ |
| R250 | A11371－5R63 | 5.6 0．25w 5\％CHIP | 」 $2^{*}$ |
| R252 | 103199－1 | 0．4 DHM 1W 5\％ 2512 T／R | K ＊＊$^{*}$ |
| R253 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R256 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N $3^{*}$ |
| R259 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM $0.10 \mathrm{~W} 5 \%$ CHIP | D 1＊ |
| R261 | A11371－1331 | 13 K DHM D．10W 5\％CHIP D日05 | E 2＊ |
| R262 | A11371－4781 | 47 OHM Q．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5．6 0．25W 5\％LHIP | E 2＊ |
| R267 | 103199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R268 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R271 | 103199－1 | D． 4 DHM 1W 5\％2512 T／A | H 4 ＊ |
| R272 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H ${ }^{*}$ |
| R274 | A11368－60432 | 604K DHM 0．125W 1\％CHIP 1206 | E 8＊ |
| R275 | A11368－51111 | 5.11 K OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | E $8^{*}$ |
| R276 | A11368－18021 | 10K 1／10W 1\％LHIP D日e5 | E 8＊ |
| R277 | A1136日－10021 | 10K 1／10W 1\％CHIP D日05 | E $日^{*}$ |
| R278 | A11358－90921 | 90．9K 8．10W 1\％CHIP B日05 | L 9＊ |
| R279 | A1 1368－10031 | 106K 0．1W 1\％CHIP 0日05 | E 7＊ |
| R280 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | E $8^{*}$ |
| 9281 | A11371－6814 | 6日0 OHM $0.50 \mathrm{~W} 5 \% \mathrm{CHIP}$ | M 1＊ |
| R282 | A11368－10021 | 10K 1／10W 1\％LHIP 0日05 | D 8＊＊ |
| R283 | A11368－10031 | 100K 0．1W $1 \%$ CHIP 0805 | E $8^{*}$ |
| R2日 4 | A11368－20023 | 20K 日．25W 1\％CHIP 1210 | F 9＊ |
| R285 | A11368－10021 | 10K 1／10W 1\％CHIP 0日85 | F 8＊ |
| R28E | A11368－10031 | 100K 0．1W 1\％CHIP 0日05 | L 10＊ |
| R2日7 | A11368－15631 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R288 | A11368－15831 | 158K 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A11368－10931 | 10ロK ロ．1W 1\％CHIP 0805 | K 10＊ |
| P290 | A11368－57521 | 57．6K ®．10W 1\％CHIP 0805 | N 3＊ |
| R291 | A113E8－22601 | 226 OHM D． $10 \mathrm{~W} 1 \%$ EHIP 0805 | N ${ }^{*}$ |
| R292 | A11368－60432 | 604 K OHM 0．125W 1\％CHIP 1206 | 」 $\mathrm{S}^{*}$ |
| R293 | A11368－10021 | 10K 1／10W 1\％EHIP 0日05 | K 9＊ |
| R294 | A11371－8201 | 日2 OHM 0．10W 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | 820 DHM D． $10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 」 7＊ |
| R296 | A11368－10021 | 10K 1／18W 1\％CHIP D805 | K 9＊ |
| R297 | A1136日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－0R02 | 0．0 OHM JUMPER CHIP 1206 | K 8＊ |
| R300 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 6＊ |
| R301 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | J 6＊ |
| R302 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R305 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | M 6＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

PARTS LIST

| REF DES | C．P．N． | DESCAIPTIUN | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R306 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | N 5＊ |
| R307 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R308 | \＄03199－1 | 0.4 QHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊$^{*}$ |
| P311 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 5＊ |
| R312 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | I 6＊ |
| R313 | A1136日－10021 | 10K 1／10W 1\％CHIP 8 O05 | G 7＊ |
| R314 | A11371－3341 | 330 K 日．10W 5\％CHIP 0日05 | G 7＊ |
| R315 | A1136日－51111 | 5.11 K OHM 0.10 W 1\％CHIP 0805 | H 7＊ |
| R316 | A1136日－10011 | 1 K 0．10W $1 \%$ CHIP 0805 | M 10＊ |
| R317 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | N 8 |
| R318 | A11371－3934 | 39K DHM 0．50W 5\％CHIP 1210 | N 8 |
| R319 |  | DPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ．25W 5\％ 1210 SMT T／R | ᄂ 9 |
| R323 | A11371－0R02 | D． 0 OHM JUMPER CHIP 1206 | G 8 |
| P400 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R401 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | J 4＊ |
| R402 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| 8405 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | M ＊$^{*}$ |
| R406 | 103199－1 | 0．4 DHM 1W 5\％ 2512 T／R | N 3＊ |
| R407 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R48日 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | F 3＊ |
| R411 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H 4＊ |
| R412 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | I 3＊ |
| R413 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日0 | E 7＊ |
| R414 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | E 7＊ |
| R415 | A1136日－5111； | 5.11 K DHM 0．10W $1 \%$ CHIP 0805 | E 7＊ |
| R416 | A1135日－10011 | 1 K 日．10W 1\％CHIP 0a05 | K 18＊ |
| R417 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R41日 | A11371－3934 | 39K OHM 0．50W 5\％LHIP 1210 | K 日 |
| R415 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5.6 OHM 1 W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 DHM ．25W 5\％ 1210 SMT T／R | 」 9 |
| R423 | A11371－0RD2 | 0．0 OHM JUMPER CHIP 1206 | F 8 |
| R500 | A1135日－10021 | 10K 1／10W 1\％CHIP 0B05 | A 3 |
| R501 | A1135日－10021 | 10K 1／10W $1 \%$ CHIP 0805 | A 2 |
| R502 | A1135日－12021 | 10K 1／10W 1\％LHIP 0805 | 日 2 |
| fi503 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | 日 2 |
| R584 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R506 | A1135日－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R508 |  | DPEN | C 2 |
| R600 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0805 | A 1 |
| R601 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| REQ2 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R603 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R664 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R606 | A11368－10021 | 10K 1／10W $1 \%$ CHIP 0805 | 目 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only



## Component Map

for use with
Main PWA 127353-1



| E．C．N． | ZONE | REV． | DESCRIPTION |  | － | APPROVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | DATE | 日Y | CHK | CM | EE | PE |
|  |  | A | INITIAL RELEASE FOR PRODUCTION． | 03－29－99 | KLW | baw |  | Cok | 8 |
|  |  |  |  |  |  |  |  |  |  |

NDTES：
1．SCHEMATIC DRAWING NUMEER 102141.
2．PWB PART NUMEER 102138－9．
3．THE PWA SHALL MEET THE IPC－A－610＿CLASS 2 STANDARDS．
4．ALL LEADS SHALL BE TRIMMED TO D． $093^{\circ}$ OR LESS．
5．POSITION COMPONENTS AS SHDWN ON COMPONENT MAP．
6．COMPONENTS THAT HAVE \｛＊\} AFTER THEIR MAP LOCATION ARE MOUNTED ON THE BOTTOM SIDE OF THE PRINTED CIRCUIT BDARD．
7．REMOVE SOLDER DR PREVENT SOLDER FROM ACCUMLLATING IN HOLES．
8．THE VENT HDLE ON TOP OF THE FELAYS KIOQ AND K 200 MUST BE DPENED AFTER THE CLEANING PROCESS，BY EITHER REMDVING THE SEALING TAPE OR CUTTING DFF THE CIACULAR TAE WITM AN＂EXACTO＂KNIFE DR SIMULAA CUTTING TOOL．WARNING，THIS STEP MUST EE DONE AFTER THE CLEANING PROCESS NOT GEFDRE：！！WATER OR CLEANING SOLVENTS ENTERING THE felay vent hole wili damage the relay．
9．CONNECT THE WIRES THAT CONE FROM QI 23 AND $\mathbf{Q} 223$ TO WP4 AND WPS RESPECTIVELY．
10．THE PWA PART NUMEEA FOA THIS MODULE SHALL BE MARKED ON THE TOP SIDE OF THE P．C．BOARD AND SHALL BE PERMANENT， USE A MARKER AND MARK DUT THE OLD PWA NUMBERS ON THE BOTTOM．
11．INSTALLATION OF U10G AND U20S IS AS FOLLOWS：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOR M42902－9
11B．EEND TRANSISTOR AT SO DEG．FLAT SIDE DOWN
11L．PLACE TRANSISTOA INTD THE PWE AS SHOWN ON THE COMPONENT MAP DETAIL B．
11D．MIX DUTPUT EPOXY AND ACCELERATDR TOGETHER．
APPEY THE MIXTUAE TO THE TRANSISTOR AND HEATSINK．
THE MIXTURE MUST FILL THE HEATSINK HOLE AND THE leads of the device，especially the center lead． （NDTE：NO VISIELE AIR GAPS ARDUND THE TRANSISTOR AND THE TRANSISTOA LEADS CANNDT TOUCH THE HEATSINK）
11E．HDLD THE TRANSISTOR AGAINST THE HEATSINK UNTIL EPOXY SETS－UP
12．TORQUE 6－32 HEX NUTS（CPN A11日56－1）AS FDLLOWS：
12A．PRE－WAVE TOROUE DF 4－6 INCH L日S．
12B．POST－WAVE AND WHEN ASSEMELY HAS COOLED DOWN TO HANDLING TEMPERATURE TOAOUE OF 13－15 INCH LES．
13．INSTALL $\downarrow 3$ CDNNECTOR AS SHOWN ON COMPONENT MAP
14．LABEL INPITT PWA WITH EPN 126B83－2 ON COMPONENT SIDE．
15．INSTALL 52 REVEASE゙D FFOM SILK SCAEENING．


INACTIVE<br>For Reference Use Only

THESE DAAWINGS AND SPECIFICATIONS ARE THE PAOPERTY OF CROWN INTERNATIDNAL．INC．AND SHALL NOT BE REPRODUCED．COPYED，OR USED AS THE 日ASIS FDR THE MANUFAETURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10020－7 | 6－32 $\times .625$ PCE CAPTIVE STUD | 8 | HW9，HW1 ${ }^{\text {a }}$ ，HW1 1．HW1 2，HW1 3．HW1 4． |
|  |  |  | HW15．HW16 |
| A10265－19121 | 13．1K $0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112．F212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104JD | 0.1 MF 250V $5 \%$ MTL POLY | 2 | C11日．C218 |
| A11056－1 | 6－32 HEX N】T W／EELLEVILLE | 8 | HW17．HW18，HW19，HW20．HW2 ． |
|  |  |  | HW22．HW23．HW2 4 |
| A1136日－10011 | 1K D． 10 W 1\％CHIP 0805 | 9 | R101．R106，R110，R201．R206． |
|  |  |  | R210，R316．R416 |
| A1136日－10021 | 10 C 1／10W 1\％EHIP 0日05 | 35 | R9，R104，R107．R10日，R111，R121． |
|  |  |  | R176．R177．R182．R185，R193． |
|  |  |  | R196，R204，R211，R221，R276． |
|  |  |  | R277，R282，R285，R293，R296． |
|  |  |  | R313．R413．R500，R501．R502． |
|  |  |  | R503，R504，R506，R600，R501． |
|  |  |  | R602．R603．RE04，R606 |
| A1136日－10031 | 100 K 0．1W 1\％EHIP 0805 | 15 | R25．R30．R31，R123．R125，R179． |
|  |  |  | R1日3．R186． 1189 R223．R225． |
|  |  |  | R279，R2日3， $\mathrm{R} 2 \mathrm{B6,R289}$ |
| A11368－12121 | 12.1 K OHM 0．10W 1\％CHIP DBQ5 | 1 | R21 |
| A11368－13703 | 137 OHM 0．25W 1\％LHIP | 2 | R139．R239 |
| A11368－15002 | 150 OHM 0．125W \％\％CHIP | 2 | R137，R237 |
| A11368－15831 | 158K D．10W 1\％CHIP 0805 | 8 | R122．R124，R187．A18日．R222， |
|  |  |  | R224．R2日7． R 288 |
| A11368－19122 | 19．iK B．125W 1\％CHIP 1206 | 2 | R109．R209 |
| A11368－20021 | $20 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R27 |
| A11368－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10．R184．R284 |
| A1138B－22681 | 226 OHM 0．10W 1\％CHIP 0805 | 4 | R116．R191，R216．R291 |
| A11388－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 6 | R22．R23．R102．R180，R202．R280 |
| A11358－49901 | 499 OHM 0．10W 1\％CHIP 0805 | 2 | R103．R203 |
| A11368－49921 | 49．9K $8.1 \mathrm{~W} 1 \%$ CHIP 8005 | 2 | R126，R226 |
| A11368－51111 | 5.11 K OHM B．1日W 1\％CHIP 0日85 | 日 | R113，R175，R197，R213，R275． |
|  |  |  | R297，R315，R415 |
| A1138日－57621 | 57.8 O － 10 W 1\％EHIP D日05 | 4 | R20．R24．R190，R290 |
| A1138日－60432 | 604K OHM 0．125W 1\％CHIP 1206 | 4 | R174，R192，R274，R292 |
| A11388－68111 | 6．日1K OHM 0．10W 1\％CHIP 0日05 | 2 | R118．R218 |
| A1138日－6日121 | 68.1 K 0．10W $1 \%$ CHIP | 3 | R12．R115．R215 |
| A1135日－69011 | 6．9日K OHM 0．10W 1\％CHIP 0日05 | 1 | R5 |
| A1136日－71511 | 7．15K 1／10W 1\％CHIP 0805 | 1 | 818 |
| A11358－82511 | 8．25K 0．1W 1\％CHIP 0日05 | 3 | R17．R114．R214 |
| A1136日－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP D805 | 4 | R120．R178．R220，R27B |
| A11368－93111 | 9．31K 0．1W $1 \%$ CHIP 0805 | 1 | A6 |
| A11369－102J2 | D．B01UF 50V 5\％NPO MLC 0805 | 2 | C134．c234 |
| A11369－120K2 | 12PF 50V 10\％NPD 0日05 T／R | 6 | C500．c501．c502， $5600,5601,5602$ |
| A1136日－270K2 | 27PF 58V 10\％NPO 0日05 T／R | 2 | C107． 2007 |
| A11369－330， 2 | 33P5 58V $5 \%$ NPQ MLL 0805 | 2 | C142．c242 |
| A11369－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO}$－B05 T／A | 4 | C110．L141．C210，C241 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

CROWN INTERNATIONAL INC． 1719 mest mishamaka road elkhart．indiana 48517
 127353－2


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－0R02 | B． $0^{\text {OHM }}$ JUMPER CHIP 1206 | 4 | R199，R299，R323．R423 |
| A11371～日R21 | 0.2 OHM 0．10W 5\％CHIP 0805 | 3 | R14．R15，R33 |
| A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | 3 | R13．R147．R247 |
| A11371－1013 | 100 DHM．25W 5\％ 1210 SMT T／R | 2 | R322，R422 |
| A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | 1 | R日 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 6 | R138，R144．R145，R23日，R244，R245 |
| A11371－1331 | 13 K DHM В．10W 5\％CHIP 0805 | 4 | R146，R161．R246，R261 |
| A11371－1501 | 15 OHM 0．10W 5\％CHIP | 5 | C606．С607，C608，R160，R260 |
| A11371－1日11 | 1日0 OHM D．10W 5\％CHIP | 4 | R14日，R163，R24B，R263 |
| A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2． |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | R4，R19 |
| A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 6 | R119，R140．R143，R219，R240，R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP 0805 | 7 | R3，R11．R26，R117，R217．R314， |
|  |  |  | R414 |
| A11371－3923 | 3．9K ロ．25W 5\％LHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39K OHM D．50W 5\％LHIP 1210 | 4 | R317．R318，R417，R41日 |
| A11371－4701 | 47 OHM D．10W 5\％CHIP | 2 | R162，R262 |
| A11371－5615 | 56日 OHM 1W 5\％2512 T／R | 2 | R32，R34 |
| A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 4 | R150．R165．R250．R265 |
| A11371－5R65 | 5．6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6日14 | 686 OHM 0．50W 5\％CHIP | 5 | R105．R128，R181，R205，R228．R281 |
| A11371－6日21 | 6．日K 0．10W 5\％LHIP 8日05 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R28，R133．R233 |
| A11371－8201 | 82 OHM 0．10W 5\％CHIP | 4 | R136，R194，R236，R294 |
| A11371－8205 | O2 OHM 1 W 5\％CHIP 2512 | 1 | R607 |
| A11371－8211 | 日20 OHM D．10W 5\％CHIP | 6 | R129．R141．R195．R229，R241，H295 |
| A11378－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP 1 |
| A11379－C050U | WIRE， 16 BLU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | 日．©1MF 50V 10\％CHIP 0805 | 4 | C109．C111．c209．C211 |
| A11427－103K5 |  | 2 | C143．C243 |
| A11427－104K2 | 0.1 MF 50V 10\％ 0805 | 33 | ［2，C6，C7，C12，C24，С25，C28，С29， |
|  |  |  | C115．C122．C126．С127，C12日． |
|  |  |  | C129，C130，ᄃ131，C132，С133， |
|  |  |  | C139，C215，C222，C226．C227． |
|  |  |  | C22日，C229，ᄃ230，C231，ट232． |
|  |  |  | С233．С239， 5505.5506 .5605 |
| A11427－123K2 | 0.012 MF 50 V 10\％CHIP | 2 | C112．C212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | 2 | C117．C217 |
| A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 4 | C118．C119，C21E，C219 |
| C 2851－1 | 1 N4004 SILICON RECT． | 7 | D1，D2，D3．D4．D6．D7．D10 |
| C 3510－2 | CHOKE，470UH 10\％AXIAL | 4 | L10日，L101，L20日，L201 |
| C 3549－0 | DIODE ZENER，10V，1N5240B | 1 | D8 |
| C 3679－5 | 33UF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 478 MF 35 V VERT | 2 | ［4．C5 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Usoony $\quad$ CROWN INTERNATIONAL INC．


PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5896－8 | NEG． 15 VOLT REG | 1 | U2 |
| C 5362－8 | 2.2 MF 50V VERT | 1 | C27 |
| C 6802－0 | 47 MF S®V AX CERM | 2 | C102，c202 |
| C 7091－9 | 0.93 MF 50 V CHIP 1206 | 3 | C22．C140．c240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE SW． | 1 | 52 |
| C．7448－1 | MMBT3904 LHIP NPN | 6 | Q100，0101．0129，प200，0201．0229 |
| C 8262－5 | MC33078D DUAL LD NOISE DP AM | 4 | ப4，U5，ப105，ப205 |
| C 8576－8 | 100 MF 35V 10\％ELEC | 1 | C26 |
| C 9012－3 | MC33079D QUAD LO NOISE OP AM | 3 | U101． 4201.4500 |
| C 9038－8 | COMPARATOR，QUAD LM339D SO－1 | 4 | ப102，ப104，ப202，U204 |
| C 9157－6 | 100UF $16 \mathrm{~V} 20 \%$ NP ELEC RAD T／ | 2 | C123．c223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | Q104，Q204 |
| C 92日3－0 | DIODE，1N914／1N414日 SOT－23 S | 55 | D3．D13，D101，D102，D103．D104． |
|  |  |  | D105．D106，D107，D108，D109． |
|  |  |  | D110．D111．D112．D113．D116． |
|  |  |  | D117，D11日．D119，D120，D121． |
|  |  |  | D122，D123．D124，D125，D126． |
|  |  |  | D127，D128，D129，D138，D201， |
|  |  |  | D202，D203．D204，D205，D206， |
|  |  |  | D207，D20日，D209，D210，D211． |
|  |  |  | D212．D213．D216．D217，D218． |
|  |  |  | D221，D222．D223．D224，D225． |
|  |  |  | D226．D227．D22日．D229．D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP38．TP39 |
| C 991日－1 | TO220 VERT CLIP－DN HEATSINK | 2 | ப1×．ப2X |
| C 9931－4 | MMETSQ87LT1 PNP XSISTOR SQT－ | 6 | Q102．0109，Q111．प202，प209，Q211 |
| C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | 4 | C121．C124．c221．C224 |
| C1020日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105．c205 |
| ᄃ10422－1 | DIODE．3A 400V 1 N5404 AXIAL | 4 | D114，D115，D214．D215 |
| C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134．R234 |
| D 8917－3 | 82ロ日LF 118VDC ELECTROLYTIC | 2 | C20．c21 |
| H42902－9 | ASM．THERMAL SENSE | 2 | ப186，ப206 |
| 101016－1 | LBL．BARCODE， | 1 | 2 |
| 101031－1 | 250 FASTON．AUTO INSERTAELE | 3 | WP4，WP5．WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK，6P4 COND MODULAR R／A | 1 | J 5 |
| 102138－9 | PW日，CE100ロ／CE20日ロ MAIN／INPU | 1 | 1 |
| 102438－101k2 | 100PF 20日V 10\％NPO 0805 | 6 | C104，C120，С135．C204，C220，ᄃ235 |
| 102438－560k2 | 56PF 200V 10\％NPO 0日05 | 4 | C106．C206， $5504 . \mathrm{CED} 4$ |
| 10243日－820K2 | 82PF 200V 10\％NPO 日805 | 4 | C108，С138，С208，С238 |
| 102465－1 | 47UF 50V 20\％RADIAL T／R | 2 | c181．c201 |
| 1024E6－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 1024年7－1 | 22MF 25V 20\％RAD T／R | 4 | C103． 2003.5503 .5803 |
| 10246日－1 | 47UF 10V 20\％NP RAD T／R | 4 | C113，C114，C213，C214 |
| 102470－1 | INDUCTOR，2．75UH 11A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR，12POS 2.5 MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，1EPOS ． 100 CTR SGL ROW | 1 | J3 |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| 102473－1 | SPEAKQN， 4 POLE PCB HORZ | 2 | J180． 1200 |
| 102475－1 | QLOCK． 5 POS TERMINAL | 1 | T81 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1．E101．E201 |
| 102477－1 | LED，SMT R／A RED | 4 | E100．E102，E200．E202 |
| 102478－1 | TAIAC DRIVER SES GV THRESH | 2 | Q132．0232 |
| 102479－1 | PWR MJD112 NPN DARLINGTON 10 | 3 | Q1．02．03 |
| 102480－1 | FET．N－CH 25V 50MA SOT－23 | 2 | 0133.0233 |
| 102481－1 | NPN 25V LOW NOISE SOT－23 | 2 | Q188． 2208 |
| 1024日3－1 | PNP 300V 500MA SOT－23 | 2 | Q103．0203 |
| 102486－1 | OPTO 8JT NPN SOIC－日 CTR＊100 | 1 | U3 |
| 1024日日－1 | SPDT HORIZ SLIDE | 1 | S1 |
| 102569－3 | HS ASM，T1 ISOLATED CH1，， | 1 | H53 |
| 102570－3 | HS ASM，T\％ISOLATED CH2， | 1 | HS 4 |
| 102571－3 | HS ASM，T1 NON－ISDLATED CH1， | 1 | HS 1 |
| 102572－3 | HS ASM．T1 NQN－ISOLATED CH2． | 1 | HS2 |
| 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT，SK LIN 21 DNT 12MM HORI | 2 | R100．R200 |
| 10260日－1 | SPACER，6X． 187 LONG ALUMINUM | 8 | HW1，HW2．HW3，HW4，HW5，HW5，HW7， |
|  |  |  | HWB |
| 102723－2 | OPTO EELL ON－50］OHM | 2 | ப100． 4200 |
| 103180－1 | BUMPER， $0.4{ }^{\prime \prime}$ TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 0.47 JF Z5U $121020 \% 50 \mathrm{~V}$ | 2 | C144，C244 |
| 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | 4 | Q107．011日，Q207， 0210 |
| 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 4 | Q105．0120．0285．0220 |
| 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512$ T／R | 38 | R1，R7，R152，R153，R156．R157． |
|  |  |  | R159．R167，R168，R171，R172． |
|  |  |  | R252，R253，R256．R257，R259， |
|  |  |  | R267，R26日，R271，R272，R300， |
|  |  |  | R301，R302，R305，R306，R307． |
|  |  |  | R308，R311，R312，R400，R401． |
|  |  |  | R402．R405．R406．R407，R40日． |
|  |  |  | R411，R412 |
| 103210－1 | 2．2UF 160V RADIAL T／R | 4 | C136，ᄃ137．C236，ᄃ237 |
| 103331－N050R | WIRE， 16 日LK／WHT TAB $\times 5 \times$ T | 1 | WP2 |
| 103435－70608 | SCREW，6－32 $\times .5$ TORX PNHD SEM | 2 | HW27．HW28 |
| 125106－1 | MACSD 8 AMP 400V TRIAC | 2 | Q131．Q231 |
| 125242－1 | CAP，． $525 \mathrm{ID} \times 1^{\prime \prime}$ VINYL | 1 | 3 |
| 125478－1 | 3.83 KOHM D．50W 1\％ $2010 \mathrm{~T} / \mathrm{R}$ | 2 | R142，R242 |
| 125482－1 | ADHESIVE LOCTITE 304 OLSTPUT | $\square$ | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 5 |
| 125508－1 | 10UF 50VDC ELECTROLYTIC SMD | 2 | ᄃ3， 530 |
| 126317－1 | REL．30A 24 V SPST PCE W／FAST | 2 | K100，K200 |
| 126日25－1 | SILICONE，CLEAR GOZ SYRINGE | 0 | 4 |
| 126929－1 | 1／4＂TRS／XLR COMED PCE VERT | 2 | J500．J500 |
| 127442－1 | PREP，CE HI－V WIRE | 1 | WP6 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

CF APPARATUS OA DEVICES WI THOHT PEAMSSIETON．



PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0805 | H $\mathrm{B}^{*}$ |
| C131 | A1：427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | H ${ }^{*}$ |
| C132 | A11427－104K2 | D． 1 MF 50V 10\％ 0805 | F 7＊ |
| C133 | A19427－104K2 | 0.1 MF 50V 10\％0805 | F $8^{*}$ |
| C134 | A11369－102」2 | D． 001 LF 50V 5\％NPO MLC 0日Q5 T／ | M 7 ＊ |
| C135 | 102438－101k2 | 100PF 200V 10\％NPO 0805 | N 7＊ |
| C136 | 103210－1 | 2．2UF 16®V RADIAL T／R | 17 |
| C137 | 103210－1 | 2．2UF 160V RADIAL T／R | 17 |
| C138 | 102438－820k2 | Q2PF 200V 10\％NPO 0805 | M 7＊ |
| C139 | A11427－104K2 | 0． 1 MF 58V 10\％ 0805 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 L CHIP 1205 | L 9 |
| C141 | A11369－471K2 | 470PF 50V 18\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | N 10 |
| C142 | A11369－330」2 | 33PF 50V 5\％NPO MLC 0805 | M 10 |
| C143 | A11427－103k5 | 0． 01 MF 50 V 5\％$\times 7 \mathrm{R} 1206$ | M 9＊ |
| C144 | 103191－1 | 0．47LF ZSU 1210 20\％50V | G 7＊ |
| C201 | 102465－1 | 47 UF 50V 20\％RADIAL T／R | J 9 |
| C202 | C 6日®2－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 1日2438－101k2 | 100PF 200V 10\％NPD 8日05 | 」 9＊ |
| C205 | C10208－4 | 100 MF 25V 20\％VERT ELEC |  |
| C206 | 102438－560K2 | 56PF 200V 10\％NPO 0日05 | 」 9＊ |
| C207 | A11369－270K2 | 27PF 50V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | J 9＊ |
| C20日 | 10243日－820K2 | 82PF 20日V 10\％NFO 0805 | 」 10＊ |
| C209 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP} 0805$ | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | K 7＊ |
| C211 | A11427－103K2 | 9．01MF 50V 10\％CHIP 0005 | K 7＊ |
| C212 | A11427－123K2 | 0.012 MF 50 V 10\％CHIP | L 日＊ |
| C213 | 10245日－1 | 47UF 10V 20\％NP RAD T／R | K 日 |
| C214 | 10246日－1 | 47UF 10V 20\％NP RAD T／R | K 日 |
| C215 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | K $日^{*}$ |
| C216 | A11427－472K2 | 470ロPF 50V 10\％×7A 0日05 | 」 ${ }^{*}$ |
| C217 | A11427－272K2 | 270日PF 50V 10\％CHIP 0日05 | D 1 ＊ |
| C21日 | A10434－104JD | 0． 1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％X7R 0805 | E 1＊ |
| C220 | 102438－101K2 | 100 PF 200 V 10\％NPO 0805 | D 2＊ |
| C221 | C19196－1 | 2． 2 MF 58 V 20\％RAD T／R | E 8 |
| C222 | A11427－104K2 | 0．1 MF 50V 18\％0日0S | E 日＊ |
| C223 | C 9157－6 | 10ロUF 16V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． 2 MF 50V 20\％RAD T／R | J 9 |
| C226 | A11427－104K2 | D． 1 MF 50V 10\％0805 | K 10＊ |
| C227 | A11427－104K2 | $0.1 \mathrm{MF} \mathrm{50V} \mathrm{10} \mathrm{\%} \mathrm{0805}$ | K 9＊ |
| C228 | A11427－104K2 | 0.1 MF 50V 10\％0805 | 」10＊ |
| C229 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | 」 ＊＊$^{\text {d }}$ |
| C230 | A11427－104K2 | 0.1 MF 50V 10\％0805 | E $B^{*}$ |
| C231 | A11427－1日4K2 | 0.1 MF 50V 10\％0805 | E 7＊ |
| C232 | A11427－104K2 | 0.1 MF 50V $10 \% 0805$ | E 7＊ |
| C233 | A11427－104K2 | 0．1 MF 50V 10\％0805 | D $\theta^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C234 | A11369－102J2 | D． $001 \mathrm{LF} 50 \mathrm{~V} 5 \% \mathrm{NPO}$ MLC 0805 T／ | 」 $7 *$ |
| C235 | 102438－101K2 | 100PF 20®V 10\％NPO 0805 | 」 2＊ |
| C236 | 103210－1 | 2．2UF 16日V RADIAL T／R | I 1 |
| C237 | 183210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| ᄃ238 | 10243日－820K2 | 82PF 20®V 10\％NPO 0日®5 | 」 $7 *$ |
| ᄃ239 | A11427－104K2 | 0.1 MF 50V 10\％0805 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF S日V EHIP 1206 | 」 9 |
| C241 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | L 10 |
| C242 | A11369－330 2 | 33PF 58V 5\％NPO MLC 0日05 | K 10 |
| C243 | A11427－103×5 | 0.01 MF 50 V 5\％$\times 7$ A 1206 | K 9＊ |
| C244 | 103191－1 | 0.47 LF Z5U 1210 20\％50V | E 7＊ |
| C500 | A11359－120K2 | 12PF 59V 10\％NPO 0日05 T／R | A 2 |
| C501 | A11369－120K2 | 12PF 50V 10\％NPD 0日05 T／R | A 2 |
| 5582 | A1 1369－120＜2 | 12 PF 50 V 10\％NPO 0日05 T／R | 日 2 |
| 5503 | 102467－1 | 22MF 25V 20\％RAD T／R |  |
| C504 | 102438－560k2 | 56PF 200V 10\％NPO 0805 |  |
| C505 | A11427－104K2 | 0.1 MF 50V 10\％0805 |  |
| C586 | A1t427－104K2 | 0.1 MF 50V 10\％0805 | A 2 |
| C509 |  | DPEN | 日 2 |
| c600 | A1 1369－120k2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0日05 T／R |  |
| cs01 | A1 1369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0日05 T／R |  |
| C602 | A11359－120k2 | $12 \mathrm{FF} 50 \mathrm{~V} 10 \% \mathrm{NPG} 0 日 05 \mathrm{~T} / \mathrm{R}$ |  |
| С603 | 1024E7－1 | 22MF $25 \mathrm{~V} 20 \%$ RAD T／R | B 2 |
| CS04 | 102438－560k2 | 56PF 200V 10\％NPO 0805 |  |
| C605 | A11427－184K2 | 0． 1 MF 50V 10\％ 0805 | A 1 |
| C606 | A11371－1501 | 15 OHM 0．1W 5\％CHIP D日05 | C 3 |
| C607 | A11371－1501 | 15 OHM 0．1W 5\％CHIP 0日05 | C 3 |
| C608 | A11371－1501 | 15 OHM D． $1 \mathrm{~W} 5 \%$ CHIP 0日05 | B 1 |
| C509 |  | OPEN | B 2 |
| D1 | C 2日5：－1 | 1N4004 SILICON RECT． | G 9 |
| D2 | C 2日51－1 | 1 N40日4 SILICQN RECT． | G 10 |
| D 3 | C 2日51－1 | 1N40B4 SILICON RECT． | G 10 |
| D4 | C 2日51－i | 1 N4004 SILICON RECT， | G 10 |
| D6 | C 2851－1 | 1 N40Q4 SILICON RECT． | J 8 |
| D7 | C 2851－1 | 1 N40U4 SILICON RECT． | 」 8 |
| D日 | C 3549－0 | DIODE ZENER，10V， 1 N5240B | 」 B |
| D9 | C 9283－0 | DIODE，1N914／1N4148 5OT－23 SMT | I 9＊ |
| D10 | C 2851－1 | 1 N40®4 SILICON RECT． | I 10 |
| D13 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | $19^{*}$ |
| D101 | ᄃ 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 9＊ |
| D102 | C 92日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 9＊ |
| D103 | C 92日3－0 | DIODE，1NS14／1N4148 SOT－23 SMT | L 9＊ |
| D194 | C 9283－0 | DIODE，iN914／1N4148 SOT－23 SMT | M 3＊ |
| D105 | C 9283－9 | DIODE，1N914／1N414B SOT－23 SMT | L 9＊ |
| D106 | C 92日3－0 | DIDDE，1N914／1N4148 SOT－23 SMT | N 8＊ |
| D107 | C 92日3－0 | DIODE，iNG14／1N4148 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D198 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 5MT | N 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D109 | C 92日3－0 | DIUDE，1N914／1N4148 SOT－23 SMT | N 日＊ |
| D110 | C 9283－0 | DIODE，1N914／1N4148 SDT－23 SMT | N 日＊ |
| D111 | C 92日3－0 | DIQDE，iN914／1N414日 SOT－23 SMT | N $\mathrm{B}^{*}$ |
| D112 | C 32日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | N $\mathrm{E}^{*}$ |
| D113 | －9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 日＊ |
| D114 | C10422－1 | DIODE，3A 400V 1 N5404 AXIAL | 16 |
| D115 | C10422－1 | DIODE．3A 400V 1N5404 AXIAL | 15 |
| D118 | C 9283－0 | DIODE．1N914／1N414日 SOT－23 SMT | 6 8＊ |
| D117 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | M 10＊ |
| D118 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 10＊ |
| D119 | C 9283－9 | DIODE．1N914／1N414日 SOT－23 SMT | I 9＊ |
| D120 | C 9283－0 | DIODE，1N914／1N414日 5OT－23 SMT | I 9＊ |
| D1 21 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | L S＊ |
| D122 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | M 9＊ |
| D123 | ᄃ 9283－0 | DIODE．1N914／1N414日 SOT－23 SMT | G 9＊ |
| D1 24 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | G 7＊ |
| D1 25 | C 9283－9 | DIODE，1N914／1N414日 SOT－23 SMT | H 7＊ |
| D1 26 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | M 7 |
| D1 27 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | M 8 |
| D12日 | C 9283－0 | DIODE，1N914／iN414日 SOT－23 SMT | G 7＊ |
| D129 | C 92日3－0 | DIODE．1N914／1N414日 SOT－23 SMT | G 6＊ |
| D130 | ᄃ 9283－0 | DIODE．1N914／1N414日 SOT－23 SMT | M 9 |
| D201 | C 9283－9 | DIODE．1NS14／1N414日 SOT－23 5MT | K 9＊ |
| D202 | C 9283－0 | DIODE．1N914／1N414日 SOT－23 SMT | K S＊$^{*}$ |
| D203 | C 9283－0 | DIODE，1N914／1N414日 5OT－23 SMT | 」 $9^{*}$ |
| D204 | C 32日3－0 | DIODE，1N914／1N414日 SOT－23 SMT | 」 ＊$^{*}$ |
| D205 | C 92日3－0 | DIODE，1NG14／1N414日 SOT－23 SMT | 」 9＊ |
| D206 | C 92日3－0 | DIODE，1NS14／1N4148 SOT－23 SMT | K 8＊ |
| D207 | C 9283－b | DIODE，1N914／1N414日 SOT－23 SMT | K 日＊ |
| D208 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 7＊ |
| D209 | ᄃ 92日3－0 | DIADE，1NS14／1N414日 SOT－23 SMT | K 8＊ |
| D210 | C 92日3－0 | DIQDE，1NS14／1N4148 SOT－23 SMT | K 8＊ |
| D211 | C 9283－0 | DIDDE，1NS14／1N414日 SOT－23 SMT | K $8^{*}$ |
| D212 | C 9293－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 8＊ |
| D213 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | K $8^{*}$ |
| D214 | C10422－1 | DIODE．3A 400V 1N5404 AXIAL | 13 |
| D215 | C10422－1 | DIODE， 3 A 400V $1 N 5404$ AXIAL | 12 |
| D216 | C 9283－® | DIODE，1N914／1N4148 SOT－23 SMT | E 8＊ |
| D217 | C 9293－0 | DIQDE，1N914／1N4148 SOT－23 SMT | K 10＊ |
| D21日 | ᄃ 9283－0 | DIODE，INS14／1N4148 SOT－23 SMT | L 10＊ |
| D221 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | 」 9＊ |
| D222 | C 9283－0 | DIQDE，1N914／1N4148 SOT－23 SMT | K 9＊ |
| D223 | C 9283－8 | DIADE，1N914／1N414日 SOT－23 SMT | E 9＊ |
| D224 | C 9283－0 | DIODE，1N914／1N4148 SDT－23 SMT | E 7＊ |
| D225 | C 9283－0 | DIODE，1N914／1N4148 SQT－23 SMT | F 7＊ |
| D226 | C 9283－6 | DIODE，1NS14／1N4148 SOT－23 SMT | $K 7$ |
| D227 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 8 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

CROWN
INTERNATIDNAL
INC．

| DRAWN | KLW | 03－29－99 | DWG．NO． | SHEET 9 OF 20 | AR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROL． | MD3900 |  |  | 27353 |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D228 | C 9283－® | DIQDE，1N914／1N414日 SOT－23 SMT | E 7＊ |
| D229 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | F E＊$^{*}$ |
| D230 | C 9283－0 | DIQDE．ING14／1N414日 SOT－23 SMT | K 9 |
| E1 | 102476－1 | LED，SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED，SMT R／A GREEN | 」 1 |
| E102 | 102477－1 | LED，SMT R／A RED |  |
| E200 | 102477－1 | LED．SMT R／A RED | M 1 |
| E201 | 102476－1 | LED，SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED．SMT R／A RED | M 1 |
| H1 1 |  | OPEN | K 1 |
| H14 |  | OPEN | I 日 |
| H18 |  | OPEN | D 8 |
| HS 1 | 102571－3 | HS ASM．T1 NON－ISOLATED CH1． |  |
| HS2 | 102572－3 | HS ASM，T1 NON－ISOLATED CH2， |  |
| H53 | 102569－3 | HS ASM，T1 ISOLATED EH1，． |  |
| H54 | 102570－3 | HS ASM，T1 ISOLATED CH2， |  |
| HW1 | 102608－1 | SPACER． $6 \times .187$ LONG ALUMINUM | A 4 |
| HW2 | 10260日－1 | SPACER， $6 \times 187$ LONG ALUMINUM | A 4 |
| HW3 | 10260日－1 | SPACER， $6 \times 187$ LONG ALUMINUM | A 4 |
| HW4 | 10260日－1 | SPALER， $6 \times 187$ LQNG ALLJMINUM | A 4 |
| HW5 | 10260日－1 | SPACER， $6 \times 187$ LONG ALUMINUM | A 4 |
| HWE | 10260日－1 | SPACER，6x． 187 LONG ALUMINUM | 日 4 |
| HW7 | 10260日－1 | SPACER， $5 \times 187$ LONG ALUMINUM | B 4 |
| HWQ | 10260日－1 | SPACER，$\delta \times 187$ LONG ALUMINUM |  |
| HW9 | A10020－7 | $6-32 \times .525$ PCB CAPTIVE STUD | D 5 |
| HW1 ${ }^{\text {d }}$ | A10920－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | 16 |
| HW1 1 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | 6－32 $\times .825$ PCB EAPTIVE STUD | 13 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 5 |
| HW1 4 | A10920－7 | $6-32 \times .625$ PCE CAPTIVE STUD | N 6 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW1 6 | A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | N 3 |
| HW1 7 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW1 ${ }^{\text {HW}}$ | A1 1856－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW1 9 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW20 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW2 1 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW22 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | 日 4 |
| HW23 | A11056－1 | 5－32 HEX NUT W／日ELLEVILLE | 目 4 |
| HW24 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | 日 4 |
| HW25 | 102579－1 | STAND． $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW27 | 103435－70608 | SCREW，6－32 $\times$ ． 5 TORX PNHD SEM | A 4 |
| HW2星 | 103435－7060日 | SCREW．6－32 $\times .5$ TORX PNHD SEM | A 4 |
| 」 2 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J 3 | 102472－3 | HDR，16POS ． 100 CTR SGL ROW | M 8 |
| 」 4 | 181571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J 5 | 101993－1 | JACK，6P4 COND MODULAR R／A |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| 」100 | 182473－1 | SPEAKON． 4 POLE PCE HORZ | D 10 |
| J200 | 182473－1 | SPEAKON． 4 POLE PCE HDRZ | F 10 |
| J500 | 126929－1 | 1／4＂TRS／XLR COMBA PCE VERT | B 3 |
| 」502 | 102471－2 | HDR，12POS 2．5MM RT ANG KEYED | C 1 |
| 」6ロロ | 126929－1 | 1／4＂TRS／XLR COMEO PCE VERT | 日 1 |
| K100 | 126317－1 | REL．3RA 24V SPST PCE W／FASTON | G 9 |
| K200 | 126317－1 | REL．30A 24 V SPST PC日 W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE，470UH 10\％AXIAL | N 7 |
| L101 | c 3510－2 | CHOKE， $470 \mathrm{UH} 10 \%$ AXIAL | 17 |
| L102 | 102470－1 | INDUCTOR．2．75LH 11A RADIAL | H 8 |
| L200 | ᄃ 3510－2 | CHOKE． $470 \mathrm{UH} 10 \%$ AXIAL | J 1 |
| L201 | ᄃ 3510－2 | CHOKE， 470 UH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUETOR，2．75UH 11A RADIAL | 11 |
| Q1 | 102479－1 | PWR MJD112 NPN DARLINGTON 10QV | H 10 |
| Q2 | 102479－1 | PWR MJD112 NPN DARLINGTON 108 V | I 10 |
| 03 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | I 10 |
| 0100 | C 7448－1 | MMBT3904 CHIP NPN | M ${ }^{*}$ |
| Q101 | C 7448－1 | MMBT3984 CHIP NPN | M $9^{*}$ |
| Q102 | C 9931－4 | MMBT5087LT1 PNP XSISTOR SOT－23 | N 9＊ |
| Q103 | 102483－1 | PNP 30®V 500MA SOT－23 | L $\mathrm{S}^{*}$ |
| Q104 | ᄃ 9252－5 | 2N3904 40V NPN TRANSISTOR | 16 |
| Q185 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | M ${ }^{*}$ |
| 0107 | 103192－1 | NPN 308V 500MA 50MHZ SOT－223 | M $7 *$ |
| 0188 | 102481－1 | NPN 25V LOW NOISE SOT－23 | N $\mathrm{B}^{*}$ |
| Q109 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | N $\mathrm{B}^{*}$ |
| 口118 | 103192－1 | NPN 306V 500MA 50MHZ SOT－223 | N 7＊ |
| प111 | ᄃ 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q120 | 103193－1 | PNP 300V 500MA 50MH2 SOT－223 | I 7＊ |
| Q129 | C 744日－1 | MMBT3904 CHIP NPN | G 9＊ |
| 0131 | 125106－1 | MACSD 8 AMP 40日V TRIAC | F 9 |
| 0132 | 102478－1 | TRIAC DRIVER SBS 日V THRESH | F 9 |
| 0133 | 1024日日－1 | FET，N－CH 25V 50MA SOT－23 | M 9＊ |
| 0200 | C 744日－1 | MMET3904 CHIP NPN | K 9＊ |
| 0201 | C 744日－1 | MMBT3904 CHIP NPN | K 9＊ |
| 0202 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SCT－23 | L 9＊ |
| 0203 | 102483－1 | PNP 300V 500MA SOT－23 | 」 9＊ |
| 0204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| Q205 | 103193－1 | PNP 30DV 50UMA 50MHZ SOT－223 | J 7＊ |
| Q207 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | K 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 0208 | 102481－1 | NPN 25V LOW NOISE SOT－23 | K ${ }^{*}$ |
| प209 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－23 | K $日^{*}$ |
| Q210 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | 」 $\mathbf{2 *}^{*}$ |
| Q2 11 | C 9931－4 | MMET50日7LT1 PNP $\times$ SISTOR SOT－23 | 」 2＊ |
| Q220 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | D 2＊ |
| 0229 | C 744日－1 | MMBT3904 LHIP NPN | E 9＊ |
| 0231 | 125186－1 | MAC9D 8 AMP 400V TRIAC | E 9 |
| Q232 | 102478－1 | TRIAC DRIVER SBS 日V THRESH | $F \mathrm{~B}$ |
| 0233 | 102480－1 | FET，N－CH 25V 50MA 50T－23 | 3 9＊ |
| R1 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | 」 日＊ |
| R2 | A11371－2225 | 2． 2 K iW 5\％CHIP 2512 | 」 日＊ |
| R3 | A11371－3341 | $330 X$ 0．10W 5\％CHIP 0805 | I $8 *$ |
| R4 | A11371－3313 | 330 OHM 日．25W 5\％CHIP | $1\}^{*}$ |
| R5 | A1136日－69811 | 6．9日K OHM 0．10W 1\％EHIP 0805 | D 日＊ |
| R6 | A1136日－93111 | 9．31K 0．1W 1\％CHIP 0日05 | D $8^{*}$ |
| A7 | 103199－1 | 0．4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 8＊ |
| R8 | A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | N 10＊ |
| R9 | A1 1368－10021 | 10K 1／10W 1\％LHIP 0805 | H $\mathrm{O}^{*}$ |
| R10 | A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330x 0．10W 5\％CHIP 0日05 | I 9＊ |
| R12 | A11368－68121 | 68．1K 0．10W \％CHIP | I 3＊ |
| A1 3 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0B05 | I 10＊ |
| R） 4 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0日05 | 1 10＊ |
| R15 | A1 1371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0日05 | 1 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A1 1368－82511 | B． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIF 0日05 | F 10＊ |
| R18 | A11368－71511 | $7.15 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日85 | D $8 *$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I ${ }^{*}$ |
| R20 | A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | I 9＊ |
| R21 | A1 1368－12121 | 12.1 K OHM 0．10W 1\％LHIP 0805 | 」 9＊ |
| R22 | A11368－39231 | 392K B．10W 1\％CHIP 0日05 | $19^{*}$ |
| R23 | A11368－39231 | 392K 日．10W 1\％CHIP DQ05 | I 9＊ |
| R24 | A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | I $\mathrm{S}^{*}$ |
| R25 | A11368－10031 | 100K 0．1W 1\％CHIP 0日05 | N 9＊ |
| R26 | A11371－3341 | 330 K 8．10W 5\％CHIP 0日05 | A 9＊ |
| R27 | A11368－20021 | 20K 0．10W 1\％CHIP 0日DS | L 9＊ |
| R28 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L．9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| :---: | :---: | :---: | :---: |
| R30 | A11368－10031 | 100K 0．1W 1\％CHIP 日日®5 | $18^{*}$ |
| R31 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | J B＊ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 8 |
| R33 | A11371－0R21 | 0.2 OHM 0． $10 \mathrm{~W} 5 \%$ CHIP 0005 | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 」 日 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12 MM HORIZ | L 1 |
| R101 | A1136日－10011 | 1 K 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | M 10＊ |
| R102 | A1136日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D日B5 | N 9＊ |
| R193 | A1136日－49901 | 499 OHM 0．10W 1\％CHIP 0日05 | N 9＊ |
| R104 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | N 9＊ |
| R105 | A11371－6814 | 6日日 OHM 0．50W 5\％CHIP | 」 1＊ |
| R106 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | M 9＊ |
| R107 | A1136日－10021 | 18K 1／10W 1\％CHIP 0日05 | L 10＊ |
| R109 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | L 10＊ |
| R109 | A1136日－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1208 | M 3＊$^{*}$ |
| R110 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0日05 | L 9＊ |
| R111 | A113E日－10021 | 10K 1／19W 1\％CHIP 0日05 | L 9＊ |
| R1 12 | A10265－19121 | 19．1K 0．25W 1\％MF | L 9 |
| R113 | A1136日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 8805 | L 10＊ |
| R114 | A1136日－82511 | 8．25K 0．1W 1\％CHIP 0005 | L 10＊ |
| R1 15 | A1136日－68121 | 68．1K 0．10W 1\％CHIP | L 10＊ |
| R116 | A1136日－22601 | 226 OHM 8．10W 1\％CHIP 0日05 | M 9＊ |
| Al 17 | A11371－3341 | 330K 0．10W 5\％CHIP D日85 | M 9＊ |
| R119 | A1136日－6日111 | E．91K OHM 0．10W $1 \% \mathrm{CHIP} 0805$ | M 10 |
| R119 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | M 9＊ |
| R120 | A1136日－90921 | 90．9K 0．10W 1\％CHIP 0805 | M 9＊ |
| R121 | A1136日－10021 | 10K 1／19W 1\％CHIP 0日05 | M 10 |
| R122 | A1136日－15931 | 15日K 0．10W 1\％CHIP 0日0s | N 9＊ |
| R123 | A1136日－10031 | 100K 0.1 W 1\％CHIP 0805 | M 9＊ |
| R1 24 | A1136日－15831 | 15日K 0．10W 1\％EHIP ge®5 | M 9＊ |
| F125 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 0805 | N 9＊ |
| R126 | A11368－49921 | 49．9K D．1W 1\％CHIP De05 | M 9＊ |
| R127 | A11371－6821 | 6．日K 0．10W 5\％CHIP 0日05 | N 9＊ |
| R128 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－9211 | 820 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | －8＊ |
| R131 |  | OPEN | O 日＊ |
| R132 | A11371－2223 | 2．2K 0．25W $5 \%$ CHIP 1210 | H $\mathrm{E}^{*}$ |
| F133 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 6＊ |
| R134 | C12613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 日．25W 5\％CHIP | M 7＊ |
| R136 | A1 1371－8201 | 82 OHM 0．10W 5\％CHIP | M 7＊ |
| R137 | A1 1368－15802 | 150 OHM 0．125W 1\％CHIP | N ${ }^{\text {® }}$ |
| R138 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| R139 | A11368－13703 | 137 DHM 0．25W 1\％CHIP | N 8＊ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N 8＊＊ |
| R141 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | 0 日＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| R142 | 125478－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} 1 \% 2010$ T／R | ○ 日＊ |
| R143 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | N $\mathrm{B}^{*}$ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 日＊ |
| R145 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N $\mathrm{B}^{*}$ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R147 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R148 | A11371－1日11 | 180 OHM 0．10W 5\％CHIP | M 7＊ |
| R150 | A11371－5R63 | 5．6 0．25W 5\％CHIP | N 6＊ |
| R152 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K $6^{*}$ |
| R153 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R156 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
| R157 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R159 | A10266－2R74 | 2．7 OHM 2W 5\％EF | I 8 |
| R159 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | D E＊ |
| R160 | A11371－1581 | 15 OHM D． 10 W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 8日05 | H 7＊ |
| R162 | A11371－4701 | 47 OHM D．10W 5\％LHIP | H 7＊ |
| A163 | A11371－1811 | 180 OHM D．10W 5\％CHIP | I 7＊ |
| R165 | A11371－5RE3 | $5.60 .25 W 5 \%$ CHIP | I 5＊ |
| R167 | 103199－1 | 0．4 DHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R18日 | 103199－1 | B． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | G 6＊ |
| R172 | 103193－1 | 0.4 OHM 1W 5\％2512 T／R | H E＊ |
| R174 | A11368－60432 | 604K OHM 0．125W $1 \%$ CHIP 1205 | G 8＊ |
| R175 | A1136日－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0885 | ［ 8＊ |
| R176 | A11368－10021 | 1日K 1／10W 1\％CHIP 0805 | G 8＊ |
| F177 | A11368－10821 | 10K 1／10w $1 \%$ CHIP 2805 | H 8＊ |
| R17日 | A11368－90921 | 90．9K 0．10W 1\％CHIP D日05 | N 9＊ |
| R179 | A11368－10031 | 100K $0.1 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | F 7＊ |
| R180 | A11368－39231 | 392K 0．10W 1\％EHIP DBE5 | 6日＊ |
| F181 | A11371－6814 | 6日0 OHM $0.50 \mathrm{~W} 5 \%$ CHIP | 」 1＊ |
| R182 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | F 8＊ |
| R1日3 | A11368－10031 | 100K $0.1 \mathrm{~W} 1 \%$ CHIP 0895 | F $8^{*}$ |
| R184 | A1 1368－20023 | 20K 0．25W 1\％CHIP 1210 | F $9^{*}$ |
| R185 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | G 8＊ |
| R1日 | A）1368－10031 | 100K 0．1W 1\％CHIP D805 | N 10＊ |
| R1日7 | A11368－15831 | 159K 0．10W 1\％CHIP 0日05 | M 10＊ |
| R168 | A1138B－15831 | 15日K 0．10W 1\％CHIP 0日05 | N10＊ |
| R189 | A1136日－10031 | 100K Q．1W $1 \%$ CHIP 0805 | M 10＊ |
| R190 | A1138日－57621 | 57．6K 日．10W 1\％CHIP 日日®5 | N $\mathrm{S}^{*}$ |
| R191 | A1136日－22601 | 226 OHM ロ．10W 1\％CHIP Q日05 | N \％＊$^{*}$ |
| R192 | A1138日－60432 | 604K OHM 0．125W 1\％EHIP 1206 | L 9＊ |
| R193 | A1138日－10021 | 10K 1／10W 1\％CHIP 0日05 | N 9＊ |
| R194 | A11371－8201 | 日2 OHM D．10W 5\％CHIP | M 7＊ |
| R195 | A11371－8211 | 日20 OHM D．10W 5\％CHIP | M 7＊ |
| R196 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | M 9＊ |
| R197 | A1136日－51111 | 5.11 K OHM B．10W 1\％CHIP Da05 | M 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R198 |  | OPEN | M 10 |
| R199 | A11371－DR02 | D． 0 OHM JUMPER CHIP 1206 | N 8＊ |
| R20］ | 102595－3 | POT，SK LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A1138日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | K 10＊ |
| R202 | A1138日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 8日05 | L $\mathrm{S}^{*}$ |
| R203 | A1136日－49901 | 499 OHM D．10W 1\％EHIP 0日05 | L 9＊ |
| R204 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 0805 | L 9＊ |
| R205 | A11371－6814 | 680 OHM 区．50W 5\％CHIP | M 1＊ |
| R206 | A11368－10011 |  | 」 －$^{*}$ |
| R209 | A11368－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ EHIP 1206 | K 9＊$^{\text { }}$ |
| R210 | A11368－1边11 | 1 K 日．10W 1\％CHIP 0805 | 」 ${ }^{*}$ |
| R211 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | 」 ＊$^{\text {J }}$ |
| R212 | A18265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 」 9 |
| R213 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 8805 | 」 10＊ |
| R214 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | 」 $10 *$ |
| F215 | A11368－68121 | 6日． 1 K 日．10W 1\％CHIP | 」10＊ |
| R216 | A11368－22501 | 226 DHM 0．10W 1\％CHIP 0805 | K 9＊ |
| R217 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | 」 ${ }^{*}$ |
| R218 | A11368－68111 | E．日1K OHM 0．10W 1\％CHIP B805 | K 10 |
| R219 | A11371－3333 | 33K 0．25W 5\％LHIP 1210 | J 9＊ |
| R220 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0805 | K 9＊ |
| R221 | A11368－10021 | 10K 1／10W 1\％CHIP D日05 | K 10 |
| R222 | A11368－15031 | 158K 0．10W $1 \%$ CHIP 0805 | K 9＊ |
| R223 | A11368－10031 | 100K 0．1W 1\％CHIP 0日05 | K $\mathrm{g}^{*}$ |
| R224 | A11368－15日31 | 15日K 0．10W 1\％CHIP 0805 | K $\mathrm{S}^{*}$ |
| R225 | A11368－10631 | 100K 0．1W 1\％CHIP 0805 | L 9＊ |
| R226 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0805 | K 9＊ |
| R227 | A11371－6821 | 6．日K 0．10W 5\％CHIP 0805 | K 9＊ |
| R228 | A11371－6814 | 6日0 OHM D．50W 5\％EHIP | M 1＊ |
| R229 | A11371－8211 | 820 OHM 0．18W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L．${ }^{*}$ |
| R231 |  | OPEN | L 7＊ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
| R234 | C18613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3.9 K 0.25 W \％CHIP | 」 7＊ |
| R236 | A11371－8201 | B2 OHM B．10W 5\％LHIP | 」 ${ }^{*}$ |
| R237 | A1 136日－150日2 | 150 OHM 0．125W 1\％CHIP | K $\mathrm{B}^{*}$ |
| R238 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A1136日－13793 | 137 DHM D．25W 1\％CHIP | K B＊ |
| R246 | A11371－3333 | 33K ロ．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 OHM 日． $10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | L ＊＊$^{*}$ |
| R242 | 12547日－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} 1 \% 2010$ T／R | L 7＊ |
| R2 43 | A11371－3333 | 33K 日．25W 5\％CHIP 1210 | K 8＊ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 日＊ |
| R245 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | 大 日＊ |
| R246 | A11371－1331 | 13 X OHM 0．10W 5\％CHIP 0805 | 」 2＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

|  | 71日 WEST | ISHAWA | A ROAD | ELKHART．INDIANA 46517 |
| :---: | :---: | :---: | :---: | :---: |
|  | DRAWN | KLW | 03－29－99 |  |
|  | PRDJ． | MD39000 |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R247 | A11371－1011 | 100 OHM 日． 10 W 5\％LHIP 0 005 | 」 2＊ |
| R248 | A11371－1日11 | 180 OHM D．10W 5\％CHIP | K 2＊ |
| R250 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | 」 ${ }^{*}$ |
| R252 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 4＊$^{*}$ |
| R253 | 103199－1 | D． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R256 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 183199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM 0．10W 5\％LHIP | D 1＊ |
| R261 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | E 2＊ |
| R262 | A11371－4701 | 47 OHM D．10W 5\％CHIP | E $2^{*}$ |
| R263 | A11371－1811 | 180 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | $5.60 .25 W 5 \%$ LHIP | E 2＊$^{*}$ |
| R267 | 103199－1 | 0.4 OHM 1W5\％ 2512 T／R | E 4＊ |
| R268 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 3＊ |
| R271 | 103199－1 | D． 4 DHM 1W 5\％ 2512 T／R | H 4＊$^{\text {＊}}$ |
| P272 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A11368－60432 | 604 K OHM 0．125W $1 \%$ CHIP 1206 | E $8^{*}$ |
| R275 | A1136日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0日05 | E 日＊ |
| R276 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | E $\mathrm{B}^{*}$ |
| R277 | A1135日－10021 | 10K 1／10W 1\％CHIP 0日05 | E $日^{*}$ |
| R278 | A1136日－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊$^{*}$ |
| R279 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | E 7＊ |
| R2日0 | A1136日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0805 | E $\mathrm{B}^{*}$ |
| R2日1 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | M 1＊ |
| R2日2 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日0s | D $日^{*}$ |
| P283 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | E $B^{*}$ |
| R2日 4 | A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
|  | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | F 8＊ |
| R2日 6 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | L 10＊ |
| R297 | A1136日－15831 | 158K 0．10W 1\％CHIP 0日05 | K 10＊ |
| R288 | A1136日－15031 | 15日K 0．10W 1\％CHIP 0805 | K 10＊ |
| R2日 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | K 10＊ |
| R290 | A1136日－57621 | 57．6K 0．10W 1\％CHIP 0805 | N 3＊ |
| R291 | A1136日－22601 | 226 OHM D． 10 W 1\％CHIP 0805 | N 3＊ |
| R292 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1205 | 」 ＊$^{*}$ |
| R293 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | K 9＊ |
| R294 | A1 1371－8201 | 82 OHM 0．10W 5\％［HIP | 」 7 ＊ |
| R295 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | 」 $7 *$ |
| R296 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | K 9＊ |
| R297 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0日05 | K 10 |
| R29日 |  | OPEN | K 10 |
| R299 | A11371－0R02 | 0．0 OHM JUMPER CHIP 1206 | K 日＊ |
| R300 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | D 6＊ |
| R301 | 103199－1 | 0． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{A}$ | 」 ®＊$^{*}$ |
| R302 | 103199－1 | 0．4 DHM 1W 5\％ 2512 T／R | K 5＊ |
| R305 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M $6^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC． |
| R306 | 103199－1 | B． 4 OHM 1W 5\％ 2512 T／R | N 5＊ |
| R307 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | E $\mathrm{E}^{*}$ |
| R396 | 103199－1 | B． 4 OHM 1W 5\％ 2512 T／R | F 6＊ |
| R311 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | G $\mathrm{E}^{*}$ |
| R312 | 103199－1 | Q． 4 口HM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I 6＊ |
| R313 | A1136日－12021 | 10K 1／10W 1\％CHIP 0805 | G 7＊ |
| R314 | A11371－3341 | 330K 0．10W 5\％CHIP 0日05 | G 7＊ |
| R315 | A1136日－51111 | 5．11K DHM 0．10w $1 \%$ CHIP 0805 | H 7＊ |
| R316 | A1136日－10011 | 1 K 日．10W $1 \%$ CHIP 0805 | M 10＊ |
| R317 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 121日 | N 6 |
| R318 | A11371－3934 | 39 K DHM 0．5日W 5\％CHIP 1210 | N 9 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | L 9 |
| R323 | A11371－0RE2 | 0．$\square$ OHM JUMPER CHIP 1206 | G 8 |
| R40日 | 103199－1 | B． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 3＊ |
| R401 | 103199－1 | 0.4 OHM iW 5\％ 2512 T／R | J 4＊ |
| R402 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R405 | 183199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 4＊ |
| R406 | 183199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| R407 | 163198－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R408 | 103198－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R4：1 | 143198－1 | 0． 4 OHM iW 5\％ 2512 T／R | H 4＊ |
| R412 | 103199－1 | D． 4 DHM iW 5\％ 2512 T／R | I 3＊ |
| R413 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | E 7 ＊ |
| R414 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | E 7＊ |
| R415 | A11368－51111 | 5．11K OHM 0.10 W 1\％CHIP 0895 | E 7＊ |
| R416 | A11368－10011 | 1 K 日．10W $1 \%$ CHIP 0805 | K 10＊ |
| R417 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R418 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | K 8 |
| R419 |  | DPEN | K 10＊ |
| R420 | A11371－5R65 | 5.6 OHM iW 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.6 DHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | J 9 |
| R423 | A11371－0R82 | 0.0 DHM JUMPER CHIP 1206 | F 8 |
| R500 | A11368－10021 | 10K 1／10W 1\％CHIP 8日05 | A 3 |
| R50 1 | A 1 136日－10021 | 10K 1／10W 1\％CHIP 8日05 | A 2 |
| R502 | A11358－18021 | 10K 1／10W 1\％CHIP B805 | 日 2 |
| R503 | A11368－10021 | 10K 1／10W $1 \%$ CHIP 0日05 | 目 2 |
| R504 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R506 | A11368－10021 | 18K 1／10W 1\％CHIP D日05 | A 2 |
| R508 |  | OPEN | C 2 |
| R600 | A1136日－18021 | 10K 1／10W 1\％CHIP 0日85 | A 1 |
| R601 | A1136日－10021 | 18K 1／10W 1\％CHIP 0日05 | A 1 |
| P602 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R603 | A1135日－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R604 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R606 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | 日 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only



## Component Map

for use with
Main PWA 127353-2



For Referencrive seo ony


|  |  |  | DESCRIPTION | DATE | BY | APPROVALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E．C．N． | ZONE | REV． |  |  |  | CHK | EM | EE PE |
| TS91752 |  | A | INITIAL RELEASE FOR PRODUCTION． | 09／18／99 | DK | 1 mCO | X 2 | Napos |
|  |  |  |  |  |  |  |  |  |

NOTES：
1．SCHEMATIC DRAWINE NLMEER 162141.
2．PWB PART NUMEER 102138.9.
3．THE PWA SHALL MEET THE IPC－A－G1日．CLASS 2 STANDARDS．
4．ALL LEADS SHALL BE TRIMMED TO 0．893＂OR LESS．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
6．COMPONENTS THAT HAVE（＊）AFTER THEIR MAP LOCATION
ARE MQUNTED ON THE BOTTOM SIDE OF THE PRINTED CIRCUIT BOARD．
7．REMOVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES．
B．THE VENT HOLE ON TOP DF THE RELAYS K1BD AND K2日日 MUST 日E DPENED AFTER THE CLEANING PROCESS．EY EITHER REMOVING THE SEALiNG TAPE DR CUTTING OFF THE CIRCULAR TAB WITH AN＂EXACTO＂KNIFE OR SIMULAR CUTTING TOQL．WARNING，THIS STEP MUST 日E DONE AFTER THE CLEANING PROCESS NOT EEFORE！！！WATER OR CLEANING SOLVENTS ENTERING THE relay vent hole will damage the relay．
9．CONNECT THE WIRES THAT COME FROM 0123 AND 0223 TO WP4 AND WP5 AESPECTIVELY．
1日．THE PWA PART NLMEER FOR THIS MDDULE SHALL BE MARKED ON THE TOP GIDE OF THE P．C．GOARD AND SHALL BE PEAMANENT． USE A MARKER AND MARK OUT THE OLD PWA NUMEERS ON THE BOTTOM．
11．INSTALLATION DF U106 AND U206 IS AS FOLLOWS：
11A．REMOVE MIDDLE SLEEVE FAOM TRANSISTOA 1276日3－1
11日．BEND TRANSISTOA AT SD DEG．FLAT SIDE DOWN
11C．PLALE TRANSISTOR INTO THE PWB AS SHOWN DN THE COMPONENT MAP DETAIL 日．
11D．MIX OUTPUT EPOXY AND ACCELERATOR TOGETHER． APPLY THE MIXTURE TO THE TRANSISTOR AND HEATSINK．
THE MIXTURE MUST FILL THE HEATSINK HOLE AND THE
LEADS OF THE DEVIEE．ESPECIALLY THE CENTER LEAD．
（NOTE：NO VISIELE AIR GAPS AROUND THE TRANSISTOR
AND THE TRANSISTOR LEADS CANNOT TOUCH THE HEATSINK）
11E．HOLD THE TRANSISTOR AGAINST THE HEATSINK UNTIL EPOXY SETS－UP
12．TORQUE E＊32 HEX NUTS（CPN A11056－1）AS FOLLOWS：
12A．PRE－WAVE TORQUE OF 4－E INCH LBS．
12日．PQST－WAVE AND WHEN ASSEMELY HAS COOLED DOWN TO HANDLING TEMPEAATURE TOAOLE OF 13－15 INCH LBS．
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPDNENT MAF
14．LAEEL INPUT PWA WITH CFN 126 B日3－4 ON COMPONENT SIDE．
15．INGTALL 52 REVERSED FROM SILK SCREENING．
15．HAND SOLDER CGID（C E日DE－1）．AND CE11（C E日日G－1）ACROSS BACK OF INPUT MODULE AS SHOWN，USE 1／2＂KAPTON TAPE（S 6285－1）AS INSULATION GETWEEN EACH CAPACITOR AND THE BOARD．


INACTIVE
For Reference Use Only

THESE DAAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROUN INTEANATIONAL．INC．AND SHALL NOT EE REPRODUCED．COPIED．OR USED as the basis for the manlfacture or 5ale of apparatus of devices without permission．

| PRINTS TO |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K |  | PWA，MAIN／INPUT CE1ロロロ |  |  |  |  | TOL．UNLESS SPECIFIED$\times . \times x- \pm 6 . B 20$$x . x \times x- \pm 0.010$DRILLS $- \pm 0.063$ |  |
|  |  | DRAWN | DK 09／10／99 | APPAOVED GY： |  | DO NOT SCALE PRINT |  |  |
|  |  | CHECKED | H40 25 69 | ME $N / A$ |  | SUPERSEDES |  |  |
|  |  | SCALE | NONE | EE N／ C |  | E．C |  |  |
|  |  | PROJ $\ddagger$ | MD390D6 | PE 7 | $9 / 10 / 6$ | DWG．NO．SHEET 1 OF 28$127353-3$ |  | REV |
|  |  | FILENAME：127353－3＿A．，01．PCE |  | NEXT ASM： |  |  |  |  |

PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A10020－7 | $6-32 \times .625$ PC日 CAPTIVE STUD | 8 | HW9，HW1 D，HW1 1，HW1 2，HW1 3，HW1 4. |
|  |  |  | HW15．HW16 |
| A10255－19121 | 19．1K $\triangle$ ． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112，A212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104JD | 0． 1 MF 250V 5\％MTL POLY | 2 | C118．C218 |
| A11056－1 | 6－32 HEX NபT W／BELLEVILLE | 8 | HW1 7，HW18，HW1 9．HW2 ，HW21， |
|  |  |  | HW22．HW23．HW2 4 |
| A1136B－10011 | 1K 日．10W 1\％CHIP 0805 | 8 | R101．R106．R110．R201．R206． |
|  |  |  | R210．R316．R416 |
| A11368－10021 | 10 Cl 1／10W 1\％CHIP 0805 | 35 | R9，R104，R107，R108．R111．R121． |
|  |  |  | R176．R177．R182．R185．R193， |
|  |  |  | R196．R204．R211，R221．R276． |
|  |  |  | R277，R282，R285，R293．R296： |
|  |  |  | R313，R413．R500，R501．R502． |
|  |  |  | R503，R504，RS06．R600．R601． |
|  |  |  | R602．R603．R604，R606 |
| A11368－10031 | $100 K$ D．1W 1\％CHIP D日05 | 15 | R25．A30，R31，R123．R125，R179． |
|  |  |  | R183，R186．R189，R223，R225， |
|  |  |  | R279，R2日3，R286．R289 |
| A1136日－12121 | 12.1 K OHM 日． 10 W 1\％CHIP 0 OB5 | 1 | R21 |
| A1136日－13703 | 137 OHM 日．25W $1 \%$ CHIP | 2 | R139．R239 |
| A11368－15831 | 15日K 0．10W 1\％CHIP 0日05 | 8 | R122．R124．R187．R1日8．R222， |
|  |  |  | R224．R287．R28日 |
| A1136日－19122 | 13．1K 0.125 W 1\％CHIP 1206 | 2 | R109．R209 |
| A1136B－20021 | 20K 0．10W 1\％CHIP 0805 | 1 | R27 |
| A1136B－20023 | 20K 0．25W 1\％EHIP 1210 | 3 | R10．R184．R284 |
| A11368－22601 | 226 OHM D． 10 W 1\％CHIP 0日05 | 4 | R116．R191．R216．R291 |
| A1 1368－39231 | 332 K 日．10W 1\％CHIP 0805 | 6 | R22．R23，R102，R180，R202，R280 |
| A11368－49901 | 499 ロHM $0.10 \mathrm{~W} 1 \%$ LHIP 0805 | 2 | R103，R203 |
| A11368－49902 | 493 OHM D． $125 \mathrm{~W} 1 \% \mathrm{CHIP}$ | 2 | R137，R237 |
| A11368－49921 | 49．9K D．1W 1\％CHIP D805 | 2 | R126．R226 |
| A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP DBDS | 8 | R113．R175，R197，R213．R275． |
|  |  |  | R297，R315，R415 |
| A1 1368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 4 | R20，R24，R190．R290 |
| A1136B－60432 | 604K DHM 0．125W 1\％CHIP 1206 | 4 | R174．R192．R274．R292 |
| A1136B－58111 | 6.81 K OHM D． $18 \mathrm{~W} 1 \%$ CHIP 0 OQ5 | 2 | R118，R218 |
| A1136B－68121 | 68．1K 日．10W $1 \%$ CHIP | 3 | F12，R115，R215 |
| A11368－69811 | 6．98K DHM 日． $10 \mathrm{~W} 1 \%$ EHIP 0805 | 1 | F5 |
| A11388－71511 | 7．15K 1／10W 1\％CHIP 0885 | 1 | R18 |
| A11368－82511 | 8．25K 0．1W $1 \%$ EHIP 0805 | 3 | R17．R114．R214 |
| A11368－90921 | 90．9K 0．10W 1\％CHIP 0905 | 4 | R120，R17日，R220，R27B |
| A 11368 －93111 | $9.31 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0日05 | 1 | R6 |
| A11369－102」2 | 0. DQ1UF 50 V 5\％NPO MLC 0805 | 2 | C134，C234 |
| A11359－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | 6 | C500，C501，С502，C600，C50 1，C60 |
| A $11369-270 \times 2$ | 27PF 50V 10\％NPO 0805 T／R | 2 | C107．c207 |
| A $11369-330 \mathrm{~J} 2$ | 33PF 50V 5\％NPO MLC 0805 | 2 | C142．C242 |
| A11369－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 8805$ T／R | 4 | C110．C141．C210．C241 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A11371－R221 | 0.22 OHM 0．10W 5\％CHIP 0805 | 3 | R14．R15．R33 |
| A11371－aRD2 | 0．0 OHM JUMPER LHIP 1206 | 4 | R199，R299，R323，R423 |
| A 11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | 3 | R13．R147，R247 |
| A11371－1813 | 100 OHM ．25W 5\％ 1210 SMT T／R | 2 | R322，R422 |
| A11371－1022 | 1 K Q． $125 \mathrm{~W} 5 \%$ CHIP 1285 | 1 | R日 |
| A11371－1213 | 120 OHM 0．25W 5\％EHIP | 6 | R138，R144，R145，R23日，R244，R245 |
| A11371－1331 | 13 K OHM D．10W 5\％CHIP 8日®5 | 4 | R146．R161，R246．R261 |
| A11371－1501 | 15 OHM B．10W 5\％LHIP | 5 | C606，ᄃ607，С60日，R160，R260 |
| A11371－1811 | 180 OHM B．10W 5\％CHIP | 4 | R14日，R153，R248，R263 |
| A11371－2223 | 2． 2 K ®．25W 5\％CHIP 1210 | 2 | R1 32，R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2 |
|  |  |  |  |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | R4，R19 |
| A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP 1210 | 6 | R119，R140．R143，R219．R240，R243 |
| A11371－3341 | 330K 日．18W 5\％CHIP 0805 | 7 | R3，R11，R25．R117，R217，R314． |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39 K OHM 0．5日W 5\％CHIP 1210 | 4 | R317，R31日，R417，R418 |
| A11371－4701 | 47 OHM 0．10W 5\％CHIP | 2 | R162，R262 |
| A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 2 | R32，R34 |
| A11371－5R63 | 5．日 0．25W 5\％CHIP | 4 | R150．R165．R250，R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－6日14 | E日0 OHM 0．50W 5\％CHIP | 6 | R105．R128．R181．R205．R228．R281 |
| A11371－6日21 | 6．8K 0．10W 5\％CHIP 0日コ5 | 2 | R127．R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R28．R133．R233 |
| A11371－8201 | 日2 OHM 0．10W 5\％CHIP | 4 | R136，R134，R236．R294 |
| A11371－8205 | B2 OHM 1W 5\％CHIP 2512 | 1 | R807 |
| A11371－8211 | 日20 ОНM 日．10W 5\％CHIP | 6 | R129，R141．R195，R229．R241．R295 |
| A1137日－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WF 1 |
| A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ LHIP 0805 | 5 | C103．С111．C115．c209．C211．C215 |
| A11427－103K5 | ロ．日iMF 50V 5\％×7R 1206 | 2 | C143，С243 |
| A11427－104K2 | 0.1 MF 50V 10\％ 0905 | 30 | C6，С7，C12，C24，C25，C28，C29， |
|  |  |  | C122．C126．C127．ᄃ128．C129， |
|  |  |  | C130，ᄃ131，С132，ᄃ133，С139． |
|  |  |  | C222．С226．С227．C228．C229， |
|  |  |  | ᄃ230，ट231．ᄃ232．ट233．ट239． |
|  |  |  | 5505．5506． 5605 |
| A1 1427－123K2 | 0.012 MF 50 V 10\％EHIP | 2 | C112．c212 |
| A11427－272k2 | 270日PF 50V 10\％CHIP 8日05 | 2 | C117．C217 |
| A11427－472K2 | 4700PF 50V 18\％×7R 0日05 | 4 | C116，ᄃ119，C216．L219 |
| C 2851－1 | 1 N 4004 SILICON RECT． | 7 | D1．D2，D3，D4，D6．D7，D10 |
| C 3510－2 | CHOKE，470UH 10\％AXIAL | 4 | L10日，L $101 . L 200, L 201$ |
| C 3549－0 | DIODE ZENER．10V． 1 N5240E | 1 | D日 |
| C 3679－5 | 33LF 50V 29\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4．C5 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| ᄃ 5日02－0 | 47 MF 50V AX CERM | 2 | C102，ट202 |
| C 6806－1 | 0.01 LF $100 V$ AXIAL CER T／R | 2 | C610．C611 |
| C 7091－9 | 0.33 MF 50 V CHIP 1208 | 3 | C22，C140．C240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE 5 W ． | 1 | 52 |
| C 7448－1 | MMET3904 LHIP NPN | 6 | Q100，0101，Q129，Q200，Q201，Q229 |
| C 8282－5 | MC33078D DUAL LO NOISE OP AM | 4 | ப4，ப5，ப185，ப205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9012－3 | MC33079D OUAD LD NQI5E OP AM | 3 | ப101．U201．ப500 |
| C 9038－8 | COMPARATOR．QUAD LM339D S0－1 | 4 | U182，U184，U202，U204 |
| C 9157－6 | $100 \mathrm{LF} 16 \mathrm{~V} 20 \%$ NP ELEC RAD T／ | 2 | C123．5223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | 0104．0204 |
| C 9283－0 | DIDDE．1N914／1N414日 SOT－23 5 | 56 | D9，D13，D101，D102，D103，D104． |
|  |  |  | Di05．D106．Di07．Di0b．D109， |
|  |  |  | D11日，D111．D112．D113，D116， |
|  |  |  | D117，D118．D119，D120，D121． |
|  |  |  | D122，D123，Di24，D1 25，D1 26， |
|  |  |  | D127．D128．D123，D130．D201． |
|  |  |  | D202，D203，D204．D205．D206， |
|  |  |  | D207．D208，D203，D210．D211． |
|  |  |  | D212，D213，D216，D217．D218． |
|  |  |  | D221，D222，D223，D224．D225． |
|  |  |  | D226．D227，D228，D229．D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP38．TP39 |
| C 9918－1 | TO220 VERT LLIP－ON HEATSINK | 2 | ப1X． $42 \times$ |
| C 9331－4 | MMBT5087LT1 PNP XSISTOR SOT－ | 8 | 0102．0189．0111．0202．0209，0211 |
| C10198－1 | 2．2MF 50V $20 \% \mathrm{RAD} \mathrm{T/R}$ | 4 | C121．C124．c221．c224 |
| C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105． 2205 |
| ᄃ10422－1 | DIODE，3A 400V 1N5404 AXIAL | 4 | D114，D115．D2 14．D2 15 |
| C10513－5 | 1 K TOP ADJUST TRIMMER $T / R$ | 2 | R134．R234 |
| D 8917－3 | B20日UF 110 VDC ELECTROLYTIC | 2 | C20．C21 |
| 5 6285－9 | TAPE，KAPTON（POLYIMIDE） $1 / 2^{\prime \prime}$ | 0 | TAPE |
| 101016－1 | LBL，BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON，ALJTO INSERTABLE | 3 | WP4，WP5，WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | 12 |
| 101993－1 | JACK．6P4 COND MODULAR R／A | 1 | J 5 |
| 102138－9 | PWB，CE1日QD／CE2日QD MAIN／INPU | 1 | 1 |
| 102438－101K2 | 100PF 200V 10\％NPO 0805 | 6 | C104，С120，C135，C204，C220，ᄃ235 |
| 102438－550K2 | 56PF 200V 10\％NPO 0805 | 4 | c106． 2206.5504 .5604 |
| 102438－820K2 | 日2PF 200V 10\％NPO 0805 | 4 | C10日，ट13日，ट20日，C23B |
| 102485－1 | 47UF 50V $20 \%$ RADIAL T／A | 2 | C101．c201 |
| 102466－1 | $10 \mathrm{LJ} 250 \mathrm{~V} 20 \%$ RADIAL T／R | 1 | C1 |
| 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 4 | С103．С203．С503．С503 |
| 102468－1 | $47 \mathrm{LFF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | 4 | C113．C114．C213．C214 |
| 102470－1 | INDUCTOR，2．75LH 11A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR， $12 P O 52.5 \mathrm{MM}$ AT ANG KEYE | 1 | 」502． |
| 102472－3 | HDR， $16 P 0 S$ ． 100 CTR SGL ROW | 1 | 」 3 |

INACTIVE
For Reference Use Önly

| THESE DRAWINGS AND SPECIFIEATIDNS ARE THE SHAL NOT QE AEPRODUCED COP：ED．OR USED AS TME BASIS FOA THE MANLFACTURE OR SAL |
| :---: |
|  |  |



PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| 102473－1 | SPEAKON， 4 POLE PCB HORZ | 2 | 」100，J200 |
| 102475－1 | BLOCK． 5 POS TERMINAL | 1 | T日1 |
| 102476－1 | LED．SMT A／A GREEN | 3 | E1，E101，E201 |
| 102477－1 | LED．SMT R／A RED | 4 | E100，E102，E200，E202 |
| 102478－1 | TRIAC DRIVER SES BV THRESH | 2 | Q132．0232 |
| 102479－1 | PWF MJD112 NPN DARLINGTON 10 | 3 | Q1．02．03 |
| 102480－1 | FET，N－EH 25V 50MA SOT－23 | 2 | Q133． 2233 |
| 1024日1－1 | NPN 25V LOW NOISE SOT－23 | 2 | 0108.0208 |
| 102483－1 | PNP 300V 500MA SOT－23 | 2 | 0103．0203 |
| 102496－1 | QPTO BJT NPN SOIC－B CTR $=10 \square$ | 1 | U3 |
| 102488－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102569－3 | HS ASM，T1 ISOLATED CH1． | 1 | HS 3 |
| 102570－3 | HS ASM．T1 ISOLATED CH2， | 1 | HS 4 |
| 102571－3 | HS ASM．T1 NON－ISOLATED CH1． | 1 | HS 1 |
| 102572－3 | HS ASM，T1 NON－ISOLATED CH2， | 1 | HS2 |
| 102579－1 | STAND． $1 / 4 \mathrm{RD}$ SWAGE AL | 2 | HW25，HW2 |
| 102595－3 | POT，5K LIN 21 DNT 12 MM HORI | 2 | R100．R200 |
| 102608－1 | SPACER，6X． 187 LONG ALUMINLM | B | HW1，HW2，HW3，HW4，HW5，HW5．HW7． |
|  |  |  | HWB |
| 102723－2 | OPTO CELL ON＝500 OHM | 2 | U100． 1200 |
| 1831日日－1 | 日UMPER，0．4＂TALL ELK W／ADH | 3 | 7 |
| 103191－1 | 0.47 JF Z5U 1210 20\％50V | 2 | C144．C244 |
| 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | 4 | Q107．0110．0207．0210 |
| 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 4 | Q105，Q120．0205．0220 |
| 103199－1 | 0.4 OHM 1W 5\％2512 T／R | 38 | R1，R7，R152，R153．R155，R157． |
|  |  |  | R159，R167，R168，R171，R172． |
|  |  |  | R252，R253，R256，R257，R253， |
|  |  |  | R267，R258，R271，R272，R300． |
|  |  |  | R301． $\mathrm{R} 302 . \mathrm{R} 305$ ，R306．R307． |
|  |  |  | R308．R311．R312．R400，R401． |
|  |  |  | R402．R405．R405．R407．R408． |
|  |  |  | R411．R412 |
| 103210－1 | 2．2UF 160V RADIAL T／R | 4 | C136．C137．C236，C237 |
| 103331－N050R | WIRE． 16 BLK／WHT TAB $\times 5 \times$ T | 1 | WP2 |
| 103418－103k2 | 01 MF 100V 10\％$\times 7 \mathrm{R}$ 0805 5MD | 1 | C2 |
| 103435－7060日 | SLREW，5－32 X． 5 TORX PNHD SEM | 2 | HW27．HW28 |
| 125106－1 | MAC9D 8 AMP 40ØV TRIAC | 2 | 0131．Q231 |
| 125242－1 | CAP．． $6251 \mathrm{D} \times 1^{\prime \prime}$ VINYL | 1 | 3 |
| 125478－1 | $3.83 \mathrm{KOHM} 0.50 \mathrm{~W} 1 \% 2010 \mathrm{~T} / \mathrm{A}$ | 2 | R142．R242 |
| 1254日2－1 | ADHESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 125508－1 | 1 UUF 50VDC ELECTROLYTIC SMD | 2 | ᄃ3． 230 |
| 126317－1 | REL．30A 24 V SPST PCB W／FAST | 2 | K100，K200 |
| 126825－1 | SILICONE．CLEAR 3OZ SYRINEE | 0 | 4 |
| 126929－1 | 1／4＂TRS／XLR COMBO PCB VEAT | 2 | J500，J600 |
| 127442－1 | PREP，CE HI－V WIRE | 1 | WP6 |
| 127683－1 | SENSOR，CE THERMAL | 2 | ப106，ப206 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 10246E－1 | 1 ØUF 250V 20\％RADIAL T／R | J 8 |
| ᄃ2 | 103418－103K2 |  | F 9＊ |
| C3 | 125508－1 | 1日UF 50VDC ELECTROLYTIC SMD | 18 |
| ［4 | C 4477－3 | 470 MF 35V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35 V VERT | $G 9$ |
| C6 | A11427－1日4K2 | D． 1 MF 50V 10\％0日05 | H 10＊ |
| C7 | A $11427-104 \mathrm{~K} 2$ | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 日e05 | H $9^{*}$ |
| C12 | A11427－104K2 | 0．1 MF 50V 10\％0805 | I 9＊ |
| C20 | D 8917－3 | 820ひLF 110 VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 8200UF 110 VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | N $9^{*}$ |
| C24 | A11427－104K2 | 0．1 MF 50V 10\％0805 | N 9＊ |
| C25 | A1 1427－104K2 | D． 1 MF 50V 10\％0805 | O 9＊ |
| C26 | C 8576－8 | 100 MF 35V 10\％ELEC | I 9 |
| C27 | C 5362－6 | 2.2 MF 5 VV VERT | H 10 |
| C28 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \% 0805$ | 」 $9^{*}$ |
| C29 | A11427－104K2 | 0.1 MF 50 V 12\％0805 | I $9^{*}$ |
| СЗ】 | 125508－1 | $10.5 F$ SQVDC ELECTAOLYTIC SMD | 18 |
| C31 | ᄃ 367日－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102465－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| c102 | C 6802－0 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \%$ RAD T／R | M 9 |
| C104 | 102438－101k2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \% \mathrm{NPO}$ 0日05 | M 9＊ |
| C185 | C10208－4 | 1 100 MF $25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－560K2 | 56PF 200V 10\％NPO 0805 | L 9＊ |
| C107 | A11369－270K2 | 27PF 50V $10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | L 9＊ |
| ᄃ108 | 102438－820K2 | 82PF 200V 10\％NPD 0805 | L 1苂 |
| C．109 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H 6＊＊ |
| C110 | A11369－471K2 | 470PF 50V 10\％NPD 0805 T／R | M 7＊ |
| C111 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | N 8＊ |
| ᄃ112 | A11 427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | O 8＊ |
| C113 | 102468－1 | $47 \mathrm{UF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | N 8 |
| C114 | 102468－1 | $47 \mathrm{LF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | N 8 |
| C115 | A11427－103K2 | 0.01 MF 50V 10\％0805 | N 8＊ |
| C116 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A 11427－272K2 | 2700PF 50V 10\％CHIP 0805 | I 7＊ |
| C118 | A10434－104」D | D． 1 MF 250V 5\％MTL PaLY | I B |
| C119 | A11427－472K2 | 4700PF 50V 10\％X7R D805 | I $7 *$ |
| C120 | 10243日－101K2 | 100PF 20ロV 10\％NPO D日Q5 | I $7 *$ |
| C121 | C10196－1 | 2．2MF 50V $20 \%$ RAD T／R | G 日 |
| C122 | A11427－104K2 | 0.1 MF 50V 10\％ロB®5 | F $\mathrm{g}^{*}$ |
| ᄃ123 | C 9157－6 | $10 \square \mathrm{LF} 16 \mathrm{~V} 20 \%$ NP ELEC RAD T／R | F 8 |
| C124 | C10196－1 | 2．2MF 5QV 20\％RAD T／R | L 9 |
| ［126 | A11427－1日4K2 | 0.1 MF 50V 10\％0B05 | N 10＊ |
| C127 | A 1 1427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0日05 | N 9＊ |
| C128 | A11427－1日4K2 | 0．1 MF 50V 10\％ 0805 | M 10＊ |
| C129 | A11427－1®4K2 | 0.1 MF 50V 10\％0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | 0.1 MF 50V 10\％0B05 | H $8^{*}$ |
| C131 | A11427－104K2 | D． 1 MF 50V 10\％0805 | H 7＊ |
| C．132 | A11427－104K2 | D． 1 MF 50V 10\％0日Q5 | F 7＊ |
| C133 | A11427－104K2 | 0．1 MF $50 \mathrm{~V} 10 \% 0805$ | F $\mathrm{B}^{*}$ |
| C134 | A11369－1日2」2 | D．UQ1 LF 50V 5\％NPO MLC 0日®5 T／ | M ${ }^{*}$ |
| C．135 | 10243日－101K2 | $100 P \mathrm{~F}$ 200V $10 \%$ NPO 0日B5 | N 7＊ |
| C136 | 103210－1 | 2．2UF 160 V RADIAL T／R | 17 |
| ［137 | 103210－1 | 2．2LF 16日V RADIAL T／R | I 7 |
| C138 | 102438－日20K2 | B2PF 200V 10\％NPO 0日05 | M 7＊ |
| C139 | A11427－1日4K2 | 0．1 MF 50V 10\％ 0805 | G $7 *$ |
| C140 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | L 9 |
| C141 | A11389－471×2 | 479PF 50V 10\％NPQ 0905 T／R | N 10 |
| C142 | A11369－330」2 | 33PF 50V 5\％NPO MLC 日B05 | M 10 |
| C143 | A11427－103×5 | 0.01 MF 50 V 5\％$\times 7 \mathrm{R} 1206$ | M 9＊ |
| C144 | 103191－1 | 0.47 LF Z5U $121020 \%$ S0V | G 7＊ |
| C201 | 102465－1 | 47UF 50V 20\％RADIAL T／R | 」 9 |
| C202 | C 6802－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | K 9 |
| C204 | 102438－101K2 | $100 \mathrm{PF} 20 \square \mathrm{~V} 1 日 \% \mathrm{NPQ}$ 日日Q5 | 」 ＊＊$^{\text {＊}}$ |
| －205 |  | $10 \square \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| C205 | 102438－560K2 | 56PF 200V 10\％NPO 0805 | 」 9＊＊ |
| C207 | A11359－270K2 | 27PF 50V 10\％NPO 0B05 T／R | 」 ＊＊$^{*}$ |
| C20日 | 102438－820K2 | B2PF 200V 10\％NPO 0805 | Ј 10 ＊ |
| C209 | A11427－103K2 | D． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 8805 | H $3^{*}$ |
| ［210 | A 1 1 369－471K2 | 470PF 50V 10\％NPO 0日®5 T／R | K 7＊ |
| C211 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | K 7＊ |
| C212 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP}$ | L 8＊ |
| C213 | 102468－1 | 47LF $10 \mathrm{~V} 28 \% \mathrm{NP}$ RAD $T / R$ | K 8 |
| C214 | 102468－1 | 47UF 18V $20 \% \mathrm{NP}$ RAD $T / R$ | $K 8$ |
| C215 | A11427－103K2 | 0.01 MF 50 V 10\％0805 | K $8^{*}$ |
| C216 | A1 1427－472K2 | 4700PF 50V 10\％×7R 8805 | 」 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | D 1 ＊ |
| C218 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％X7R 0805 | E 1＊ |
| C220 | 102438－101K2 | 10DPF 20日V 10\％NPO 0805 | D $2^{*}$ |
| C221 | C10196－1 | 2．2MF 50 V 20\％RAD T／A | E 8 |
| C222 | A11427－104K2 | 0．1 MF 50V 10\％0805 | E B＊ |
| C223 | C 9157－6 | 100UF $16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2．2MF 50 V 20\％RAD T／R | 」 9 |
| C226 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | K 10＊ |
| C．227 | A11427－104K2 | 0． 1 MF S0V 10\％0805 | K $3^{*}$ |
| ᄃ228 | A 11427－104K2 | D． 1 MF 50V 10\％0805 | 」 10＊ |
| C229 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0805 | 」 $9^{*}$ |
| C230 | A11427－104K2 | 0.1 MF 50V 10\％0B05 | E 8＊ |
| C231 | A11427－184K2 | 0.1 MF 50V $10 \%$ 0805 | E 7＊ |
| C232 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | E $7 *$ |
| ᄃ233 | A11427－104K2 | D． 1 MF 5BV 10\％ 0805 | D 8 ＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

CROWN INTERNATIONAL INC．
171 B WEST MISMAWAKA ROAD ELKHART．INDIANA 46517 PHONE 12191 294－8090


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C234 | A11369－1日2J2 | D．ロ®1 LF 50V 5\％NPD MLC 0805 T ／ | 」 7＊ |
| ᄃ235 | 102438－101k2 | 1 可F 200V $10 \%$ NPO 0日Q5 | 」 2＊ |
| С236 | 103210－1 | 2．2UF 16日V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| С23日 | 10243日－820K2 | B2PF 20日V 10\％NPO 0805 | 」 7＊ |
| C239 | A $11427-104 \mathrm{~K} 2$ | 0． 1 MF 50V 10\％ 0805 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A11369－471k2 | 470PF 50V 10\％NPO 0805 T／A | L 10 |
| C242 | A11369－330」2 | 33PF 50V 5\％NPO MLC 0日日5 | K 10 |
| C243 | A11427－103K5 | $0.01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | K $9^{*}$ |
| C244 | 103191－1 | 0.47 UF Z5U 1210 20\％50V | E 7＊ |
| C50］ | A11359－120K2 | 12PF 50V 10\％NPO 0日05 T／R | A 2 |
| C501 | A11369－120k2 | $12 \mathrm{FF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| C502 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | B 2 |
| C503 | 102467－1 | 22MF $25 \mathrm{~V} 20 \%$ RAD T／R | B 2 |
| C504 | 1024．38－560K2 | 5 5PF 200V 10\％NPO 0805 | A 2 |
| C505 | A11427－104K2 | 0.1 MF 50V 10\％0805 | A 2 |
| ᄃ506 | A11427－1日4K2 | 0.1 MF 50V 10\％0805 | A 2 |
| C509 |  | OPEN | B 2 |
| cs00 | A11369－120K2 | $12 \mathrm{FF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | A 2 |
| c501 | A11359－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO $0805 \mathrm{~T} / \mathrm{R}$ | A 1 |
| C502 | A1 1369－120K2 | $12 \mathrm{FF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| C603 | 102467－1 | 22MF $25 \mathrm{~V} 20 \%$ RAD T／R | B 2 |
| C604 | 10243B－560K2 | 56PF 20ロV 10\％NPD 0日05 | 日 2 |
| C605 | A11427－104K2 | Ø． 1 MF 50V 10\％0805 | A 1 |
| C606 | A11371－1501 | 15 OHM $\triangle$ ． $1 \mathrm{~W} 5 \%$ CHIP D日®5 | C 3 |
| C607 | A11371－1501 | 15 OHM D． $1 \mathrm{~W} 5 \%$ CHIP 0日Q5 | C 3 |
| C608 | A11371－1501 | 15 OHM 0． $1 \mathrm{~W} 5 \%$ CHIP 0805 | 日 1 |
| c609 |  | OPEN | B 2 |
| C610 | C 6806－1 | 0.01 UF 100 V AXIAL CER T／R | B 3 |
| C611 | ᄃ 6806－1 | D．D1 LF 1日QV AXIAL CER T／R | B 1 |
| D1 | C 2851－1 | 1 N4004 SILICON RECT． | G 9 |
| D2 | C 2851－1 | 1 N 40 C 4 SILICON RECT． | $\square 10$ |
| D3 | C 2日51－1 | 1 N 4004 SILICON RECT． | G 10 |
| D4 | C 2851－1 | 1 N40日4 SILICON RECT． | E 10 |
| D6 | C 2日51－1 | 1 N4004 SILICON RECT． | J B |
| D7 | C 2851－1 | 1 N4004 5ILICON RECT． | 」 B |
| D9 | C 3549－0 | DIODE ZENER，10V，1N5240日 | 」 日 |
| D9 | C 9283－0 | DIODE． $1 \mathrm{NG14/1N414日} \mathrm{SOT-23} \mathrm{SMT}$ | I 9＊ |
| D10 | C 2851－1 | 1N40日4 SILICON RECT． | I 10 |
| D13 | C 9283－0 | DIODE． $1 \mathrm{NS} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT-23}$ SMT | I 9＊ |
| D101 | ᄃ 9283－0 | DIODE， $1 \mathrm{NS} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT}$－23 SMT | N 9＊ |
| D102 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | N 9＊ |
| D103 | C 9283－8 | DIODE，1N914／1N4148 SOT－23 SMT | L． $\mathrm{S}^{*}$ |
| D104 | ᄃ 92日3－0 | DIODE． 1 N914／1N4148 SOT－23 SMT | M $3^{*}$ |
| D105 | C 9283－8 | DIODE，1N914／1N4148 5OT～23 SMT | L． $9^{*}$ |
| D106 | ᄃ 9283－2 | DIODE，1N914／1N4148 SOT－23 SMT | N 8＊＊ |
| D 107 | ᄃ 9283－0 | DIODE，1N914／1N4148 50T－23 5MT | N 8＊＊ |
| D108 | ［ 9283－8 | DIODE．1N914／1N4148 SOT－23 SMT | N 8＊ |
|  |  |  |  |

For Reference Use Only
CROWN INTERNATIONAL INC．


PARTS LIST


## INACTIVE

For Reference Use Only

THESE DFAWINGS AND SPECIFICATIONS ARE THE SHALL NDT OE REPAODUCED. EOPIED: INC USAND AS THE GASIS FOR THE MANUFACTURE OR SALE

CROWN INTERNATIDNAL INC. 1718 WEST MISMAWAKA ROAD ELXHAAT, INDIANA 46517 PHONE (219) 294-BBDE


## PARTS LIST

| FEF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| D228 | C 9283－ | DIODE．1N514／1N4148 SOT－23 SMT | E 7＊ |
| D229 | ᄃ 9283－0 | DIODE，1N914／1N4148 SDT－23 SMT | F 6＊ |
| D230 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | K 3 |
| E1 | 102476－1 | LED．SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED，SMT R／A RED | J 1 |
| E101 | 102476－1 | LED．SMT R／A GREEN | J 1 |
| E102 | 102477－1 | LED．SMT R／A RED | K 1 |
| E200 | 102477－1 | LED，SMT R／A RED | M 1 |
| E201 | 102476－1 | LED，SMT R／A GREEN |  |
| E202 | 102477－1 | LED．SMT R／A RED | M 1 |
| H11 |  | OPEN | K 1 |
| H14 |  | OPEN |  |
| H18 |  | OPEN | D 8 |
| H5 1 | 102571－3 | HS ASM，T1 NON－ISOLATED CH1， |  |
| HS2 | 102572－3 | HS ASM．T1 NON－ISOLATED CH2， |  |
| HS3 | 102569－3 | HS ASM，T1 ISOLATED CH1．． |  |
| H5 4 | 102570－3 | HS ASM，T1 ISOLATED CH2，， |  |
| HW1 | 10260日－1 | SPACER，6X． 1 B7 LONG ALUMINUM | A 4 |
| HW2 | 10260日－1 | SPAEER， $6 \times 187$ LONG ALUMINUM | A 4 |
| HW3 | 10260日－1 | SPACER，6X，187 LONG ALUMINUM | A 4 |
| HW4 | 102608－1 | SPACER，6X．1日7 LONG ALUMINUM | A 4 |
| HW5 | 102608－1 | SPACER，6X．1日7 LONG ALUMINLM | A 4 |
| HW6 | 102608－1 | SPACER． $6 \times .187$ LONG ALUMINUM | 日 4 |
| HW7 | 102608－1 | SPACER， $6 \times .187$ LONG ALLMINUM | 日 4 |
| HWG | 102608－1 | SPACER， $6 \times .187$ LONG ALUMINUM | 日 4 |
| HW9 | A10020－7 | $6-32 \times .625$ PC日 CAPTIVE STUD | D 5 |
| HW1 0 | A10020－7 | 6－32 $\times$ ． 625 PCB CAFTIVE STUD | I 6 |
| HW1 1 | A 10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | I 3 |
| HWi 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 5 |
| HW1 4 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 6 |
| HWis | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW16 | A10020－7 | $6-32 \times .525$ PCB LAPTIVE STUD | N 3 |
| HW1 7 | A11056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1 8 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW19 | A1 1056－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW20 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW2 1 | A1 1856－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW22 | A1 1055－1． | 6－32 HEX NLIT W／BELLEVILLE | 日 4 |
| HW23 | A1 1056－1 | 8－32 HEX NUT W／BELLEVILLE | 日 4 |
| HW2 4 | A11855－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW25 | 102579－1 | STAND， $1 / 4$ RD SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND． $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW27 | 103435－7060日 | SCREW，6－32 X．5 TORX PNHD SEM | A 4 |
| HW28 | 103435－70608 | SCREW，6－32 $\times .5$ TORX PNHD SEM | A 4 |
| 12 | 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| $J 3$ | 102472－3 | HDR，16POS ． 100 CTA SGL ROW | M B |
| 」 4 | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J 5 | 101993－1 | JACK．6P4 COND MODULAR R／A |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
 AS THE GASTS FOR THE MANUFACTUAR OR SALE
OF APPARATUS OR DEVICES WITHOUT PERMISSION．

CROWN INTERNATIONAL INC． 1718 west mishawaka road elghart，indiana 4651\％phone（219）294－a80e

| DRAWN | DK | 89／10／99 | DWG． | SHEET 10 OF 20 | REV |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROJ |  | 90D0 |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 」100 | 102473－1 | SPEAKON， 4 POLE PCE HORZ | D 10 |
| J200 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | F 10 |
| 」 500 | 126929－1 | $1 / 4 "$ TRS／XLR COMEO PC日 VERT | E 3 |
| 」502 | 102471－2 | HDR，12POS 2．5MM RT ANG KEYED | C 1 |
| 」600 | 126929－1 | 1／4＂TRS／XLR COMEO PC日 VERT | B 1 |
| K100 | 126317－1 | REL，30A 24 V SPST PCE W／FASTON | G 9 |
| K200 | 126317－1 | REL． 30 A 24 V SPST PCE W／FASTON | E 9 |
| L100 | C 3510－2 | CHOKE， 470 UH 10\％AXIAL | N 7 |
| L101 | C 3510－2 | CHDKE， $470 \mathrm{UH} 10 \%$ AXIAL | I 7 |
| L 102 | 102470－1 | INDUCTOR，2．75UH 11 A RADIAL | H 8 |
| L200 | C 3510－2 | CHOKE，470UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOKE，47ロபH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUETOR．2．75LH 11 A RADIAL | I 1 |
| Q1 | 102473－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| Q2 | 102473－1 | PWR MJD112 NPN DARL INGTON 100V | I 10 |
| 03 | 102479－1 | PWR MJD112 NPN DARLINGTON 1日QV | I 10 |
| 0100 | C 7448－1 | MMET3904 CHIP NPN | M 9＊ |
| Q101 | C 7448－1 | MMET3904 LHIP NPN | M $9^{*}$ |
| Q102 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | N $9^{*}$ |
| Q103 | 1024日3－1 | PNP 300V 50®MA 50T－23 | L 9＊$^{*}$ |
| Q104 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 6 |
| 0185 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | M ${ }^{*}$ |
| 0107 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | M ${ }^{*}$ |
| Q108 | 1－2481－1 | NPN 25V LOW NOISE SOT－23 | N 日＊ |
| Q109 | C 9931－4 | MM8T5087LT1 PNP X5ISTOR SOT－23 | N 8＊ |
| 0110 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | N7＊ |
| Q111 | C 9931－4 | MMBT5087LT1 PNP XSISTOR 50T－23 | N 7＊ |
| Q120 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | I $7 *$ |
| Q123 | C 7448－1 | MMET3904 CHIP NPN | G 9＊ |
| 0131 | 125106－1 | MACSD 日 AMP 40VV TRIAC | F 9 |
| 0132 | 102478－1 | TRIAC DRIVER SBS 8V THRESH | F 9 |
| Q133 | 1024B0－1 | FET．N－CH 25V 50MA SOT－23 | M $9^{*}$ |
| Q200 | C 7448－1 | MMBT3904 CHIP NPN | K ${ }^{*}$ |
| Q201 | C 7448－1 | MMBT3904 CHIP NPN | K \％$^{*}$ |
| 0202 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | L． ＊$^{*}$ |
| Q203 | 102483－1 | PNP 300V 50日MA SOT－23 | 」 ${ }^{*}$ |
| 0204 | ［ 3252－5 | 2N3904 40V NPN TRANSISTOR | 13 |
| 0205 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 」 $7 *$ |
| Q207 | 103192－1 | NPN 300V 50日MA 50MHZ SOT－223 | K 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 0208 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| Q209 | ［ 9931－4 | MMET5087LT1 PNP $\times$ SISTDA SOT－23 | K $8^{*}$ |
| －210 | 103192－1 | NPN 30ロV 500MA 50MHZ SOT－223 | 」 $\mathbf{2 *}^{*}$ |
| Q211 | ᄃ 9931－4 | MMET50B7LT1 PNP XSISTOR SOT－23 | 」 2＊$^{\text {＊}}$ |
| Q220 | 103193－1 | PNP 308V 50QMA 50MHZ SOT－223 | D $2^{*}$ |
| 0229 | C 7448－1 | MMBT3904 CHIP NPN | E 9＊ |
| Q231 | 125106－1 | MAC9D $日$ AMP 400 V TRIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER $5 B 58 \mathrm{~V}$ THRESH | F 8 |
| Q233 | 1024日0－1 | FET．N－CH 25V 50MA SOT－23 | 」 ＊＊$^{\text {a }}$ |
| R1 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 $8^{*}$ |
| R2 | A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 」 $\mathrm{B}^{*}$ |
| R3 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \% \mathrm{CHIP} 0805$ | I $8^{*}$ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | $11^{*}$ |
| R5 | A11368－69811 | 6.98 K OHM 0．10W $1 \%$ CHIP 0日05 | D $8^{*}$ |
| R6 | A11388－93111 | 9．31K 0．1W 1\％CHIP 0BQ5 | D $8^{*}$ |
| R7 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 $8^{*}$ |
| R8 | A11371－1022 | 1 K ®． $125 \mathrm{~W} 5 \%$ CHIP 1206 | N 10＊ |
| R9 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0805 | H 3＊ |
| R10 | A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | H $\mathrm{S}^{*}$ |
| R11 | A11371－3341 | $330 K$ 0．10W 5\％LHIP 0日05 | I $3^{*}$ |
| R12 | A1136日－68121 | BB．1K ロ．10W 1\％CHIP | I 9＊ |
| R13 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R1 4 | A11371－R221 | 0.22 OHM 0．10W 5\％LHIP 0805 | I 10＊ |
| R15 | A11371－R221 | D． 22 DHM 0．10W 5\％CHIP 0805 | 1 10＊ |
| R16 | A1 1371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| F17 | A11368－82511 | 8．25K 0．1W 1\％LHIP 0805 | F 10＊ |
| R18 | A11368－71511 | 7．15K 1／10W 1\％CHIP D日05 | D $\mathrm{E}^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊ |
| R20 | A11368－57621 | 57.6 K Q． $10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 0日05 | $1{ }^{\text {\％}}$ |
| R21 | A11368－12121 | 12．1K OHM $0.10 \mathrm{~W} 1 \%$ CHIP D日B5 | 」 9＊ |
| R22 | A1136B－39231 | 392K 0．10W 1\％CHIP 0805 | 1 9＊ |
| A23 | A11368－39231 | 392K 0．10W 1\％EHIP 0805 | I 9＊ |
| R24 | A1136日－57521 | 57．6K 0．10W 1\％EHIP D805 | I 9＊ |
| R25 | A1136日－10031 | 100 D ． $1 \mathrm{~W} 1 \%$ LHIP D805 | N 9＊ |
| R26 | A11371－3341 | 330 K 0.10 W \％CHIP 0805 | A $9^{*}$ |
| R27 | A11368－20021 | 20K D．10W 1\％CHIP 0805 | L $\mathrm{g}^{*}$ |
| R28 | A1 1371－7511 | 750 OHM 0．10W 5\％CHIP | L $\mathrm{g}^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R30 | A1 1358－10031 | 100K 0．1W 1\％CHIP 0805 | I $\mathrm{B}^{*}$ |
| R31 | A1 1388－10031 | 100K 0．1W 1\％CHIP 0日05 | 」 8 ＊ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | 」 8 |
| R33 | A11371－R221 | 0.22 OHM 0．10W 5\％LHIP 0日05 | 1 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 」 8 |
| F100 | 102595－3 | POT，5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11368－18011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0B05 | M 10＊ |
| R102 | A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | N 9＊ |
| R103 | A1136日－49901 | 499 OHM 0．10W 1\％CHIP 0805 | N 9＊ |
| R104 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | N 9＊ |
| R105 | A 11371 －6814 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| R105 | A1136日－10011 | 1 K Q．10W $1 \%$ CHIP 0805 | M 9＊ |
| R107 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | L 10＊ |
| R108 | A11368－10021 | 10K 1／10W $1 \%$ CHIP 0805 | L 10＊ |
| F109 | A11368－19122 | $13.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | M 9＊ |
| F110 | A11 368－18011 | 1K 日． $18 \mathrm{~W} 1 \%$ CHIP 日885 | L ®＊$^{*}$ |
| F111 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| F1 12 | A10265－19121 | 19．1K $\mathrm{O} .25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 9 |
| R113 | A1136日－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | L 10＊ |
| Fil 14 | A11368－82511 | 8． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | L 10＊ |
| F115 | A1136日－68121 | 6B．1K 8．10W 1\％CHIP | L 10＊ |
| F116 | A1136日－22601 | 226 OHM D． 10 W 1\％LHIP 0805 | M 9＊ |
| R117 | A11371－3341 | 330 K 0.10 W 5\％CHIP 0805 | M 9＊ |
| R118 | A1136日－68111 | 6．81K OHM 0．10W 1\％LHIP DBDS | M 10 |
| A119 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | M 9＊ |
| R120 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0805 | M 9＊$^{*}$ |
| R121 | A1136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | M 10 |
| R122 | A1135B－15931 | 158K 0．10W 1\％CHIP 0805 | N 9＊ |
| R123 | A1 1 368－10031 | 100K 0．1 W 1\％LHIP 0805 | M 3＊ |
| R124 | A1 1368－15831 | 15BK 0．10W 1\％CHIP 0805 | M 3＊$^{*}$ |
| R125 | A1 1368－10031 | 100K 0．1W 1\％LHIP 0905 | N 3＊$^{*}$ |
| R126 | A1 1368－49921 | 49．9K 日． 0 W $1 \%$ CHIP 0B05 | M $9^{*}$ |
| F127 | A11371－6821 | 6．日K 0．10W 5\％CHIP 0805 | N 3＊$^{*}$ |
| R128 | A11371－6814 | 6B0 OHM 日．50W 5\％LHIP | J 1＊ |
| R129 | A11371－8211 | 日20 OHM D．10W 5\％LHIP | N 7＊ |
| R130 |  | OPEN | O $8^{*}$ |
| R131 |  | OPEN | 0 8＊ |
| R132 | A11371－2223 | 2．2K 0.25 W 5\％LHIP 1210 | H E＊ |
| R133 | A11371－7511 | 750 OHM D． $10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | H K＊$^{*}$ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7＊ |
| R136 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M ${ }^{*}$ |
| ค137 | A1 1368－49902 | 499 OHM 0．125W 1\％CHIP | N 8＊ |
| F138 | A11371－1213 | 120 OHM 0．25W 5\％LHIP | N 8＊ |
| R139 | A1136日－13703 | 137 OHM $0.25 \mathrm{~W} 1 \%$ LHIP | N 8＊ |
| R140 | A11371－3333 | 33 K ロ．25W 5\％LHIP 1210 | N 8＊ |
| R141 | A11371－B211 | B20 OHM 0．10W 5\％CHIP | $08^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LaC． |
| :---: | :---: | :---: | :---: |
| R142 | 125478－1 | $3.83 \mathrm{KOHM} \mathrm{D.50W} 1 \% 2010$ T／A | 0 日＊ |
| R143 | A11371－3333 | 33 K 日．25W 5\％CHIP 1210 | N $8^{*}$ |
| R144 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N B＊ |
| R145 | A11371－1213 | 120 OHM D．25W 5\％CHIP | N $8^{*}$ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0B05 | N 7＊ |
| R147 | A11371－1011 | $10 \square$ OHM D． $10 \% 5 \%$ CHIP 0日Q 5 | N 7＊ |
| F148 |  | 1 100 OHM 0．10W 5\％CHIP | M 7 ＊ |
| R158 | A11371－5R63 | 5．6 0．25W 5\％CHIP | N 6＊ |
| R152 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K E＊ |
| R153 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R155 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6＊$^{*}$ |
| R157 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | N 5＊ |
| R158 | A10265－2R74 | 2．7 OHM 2W 5\％CF | I B |
| R159 | 103198－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | D 6 ＊ |
| R160 | A11371－1501 | 15 OHM D．10W 5\％CHIP | I ${ }^{*}$ |
| R161 | A11371－1331 | 13 K OHM D． 10 W 5\％CHIP 0805 | H ${ }^{*}$ |
| R162 | A1 1371－4701 | 47 OHM D．10W 5\％EHIP | H 7＊ |
| R163 | A 1 1371－1811 | 180 OHM D．10W 5\％CHIP | I 7＊ |
| R155 | A11371－5R63 | 5.6 0．25W 5\％CHIP | I 5 ＊ |
| R167 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E B＊$^{*}$ |
| R168 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 5 ＊ |
| R172 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 6＊＊ |
| R174 | A11358－E0432 | E日4K OHM 0．125W 1\％CHIP 1206 | ■ $日^{*}$ |
| R175 | A11358－51111 | 5.1 K OHM D．10W 1\％CHIP D805 | G $8^{*}$ |
| R176 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | G 8＊ |
| R177 | A1 136日－10021 | 10K 1／10W 1\％LHIP D日®S | H $\mathrm{Q}^{*}$ |
| R178 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R179 | A11368－10031 | 100K 日． $1 \mathrm{~W} 1 \%$ CHIP 0日®5 | F 7＊ |
| R180 | A1136B－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | G $\mathrm{g}^{*}$ |
| R181 | A 11371－6814 | 680 OHM 0．50W 5\％LHIP | 」 1＊ |
| R182 | A11368－10021 | 10K 1／10W 1\％CHIP D日05 | F $8^{*}$ |
| R183 | A1136日－10031 | 10日K ロ．1W 1\％CHIP D日05 | F $8^{*}$ |
| R184 | A11368－20023 | 20K D．25W 1\％CHIP 1210 | F S＊$^{*}$ |
| R185 | A11358－10021 | 10K 1／10W 1\％CHIP 0885 | G $8^{*}$ |
| R186 | A11368－10031 | 100K ロ．1W 1\％CHIP 日日®5 | N 10＊ |
| R1E7 | A1 1368－15831 | 15日K 日．10W 1\％CHIP 0日05 | M 10＊ |
| R188 | A11368－15831 | 158 K ロ．10W 1\％CHIP 0805 | N 10＊ |
| R189 | A11368－10931 | 10ロK 0．1W 1\％LHIP 0B05 | M 10＊ |
| R190 | A1136日－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N $\mathrm{E}^{*}$ |
| R191 | A1 1368－22601 | 226 OHM 0．10W 1\％CHIP 0805 | N $\mathrm{G}^{*}$ |
| R192 | A1136日－60432 | 604K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | L 9＊ |
| R193 | A 1 136B－10021 | 10 K 1／10W 1\％CHIP 0805 | N 9＊ |
| R194 | A11371－B201 | 日2 OHM D．10W 5\％CHIP | M 7＊ |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | M ${ }^{\text {＊}}$ |
| R196 | A11 36日－10021 | 10K 1／10W 1\％CHIP 0805 | M 9＊ |
| R197 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIF 0日05 | M 10 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAF LOC． |
| :---: | :---: | :---: | :---: |
| R198 |  | OPEN | M 10 |
| 8199 | A11371－0RD2 | Q．$\triangle$ OHM JUMPER CHIP 1206 | N 8＊＊ |
| R200 | 102595－3 | POT， $5 K$ LIN 21 DNT 12 MM HORIZ | N 1 |
| R201 | A11368－10011 | 1K D．10W 1\％CHIP 0805 | K 10＊ |
| R202 | A11368－39231 | 392K 0．10W 1\％CHIP 0日05 | L． $\mathrm{G}^{*}$ |
| R203 | A11368－49901 | 495 OHM 0．10W 1\％CHIP 0日05 | L 9＊ |
| R204 | A11368－10021 | 10K 1／10W 1\％CHIP 0日B5 | L． ＊$^{*}$ |
| R205 | A1 1371－E日14 | 680 OHM D．50W 5\％CHIP | M 1＊ |
| R206 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0005$ | 」 ＊$^{\text {a }}$ |
| R203 | A11368－19122 | $19.1 \mathrm{~K} \mathrm{0.125W} 1 \% \mathrm{CHIF} 1206$ | ¢ 9＊ |
| R210 | A1136B－10011 | 1K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 $3^{*}$ |
| R211 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | 」 ＊$^{\text {＊}}$ |
| R212 | A10265－19121 | $19.1 \mathrm{~K} 0.25 \mathrm{~W} 1 \% \mathrm{MF}$ | 」 9 |
| R213 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | 」 10＊ |
| R214 | A1136日－82511 | B． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 」 $10^{*}$ |
| R215 | A11368－68121 | 6日． 1 K 日． $10 \mathrm{~W} 1 \%$ CHIP | 」 10＊ |
| R216 | A1138日－22601 | 226 OHM 0．10W 1\％CHIP 0B05 | K $9^{*}$ |
| R217 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \%$ CHIP 0805 | J 9＊ |
| R21B | A11388－68111 | 6.81 K OHM 0．10W 1\％CHIP 0805 | K 10 |
| R219 | A11371－3333 | 33 K D．25W 5\％CHIP 1210 | J $3^{*}$ |
| R220 | A1135日－90921 | 90．9K 0．10W 1\％CHIP 0805 | K 9＊ |
| R221 | A）1368－10021 | 10K 1／10W 1\％CHIP 0805 | K 10 |
| R222 | A113E8－15831 | 15日K 0．10W 1\％EHIP 0885 | K $9^{*}$ |
| R223 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | K 9＊ |
| R224 | A11368－15831 | 15日K 0．10W 1\％CHIP 0805 | K 9＊ |
| R225 | A1 1368－10031 | 100K ロ．1W $1 \%$ CHIP 0805 | L．9＊ |
| R226 | A1136日－49921 | 49．9K 0．1W $1 \%$ CHIP 0805 | K 9＊ |
| R227 | A11371－6921 | 6．日K 0．10W 5\％CHIP 0805 | K 9＊ |
| R228 | A11371－6日14 | 680 OHM 0．50W 5\％［HIP | M 1＊ |
| R229 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | ᄂ 7＊ |
| R231 |  | OPEN | L $7^{*}$ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | J 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 $7 *$ |
| R236 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | 」 7＊ |
| F237 | A1 1368－49302 | 489 OHM 0．125W 1\％CHIP | K $\mathrm{Q}^{*}$ |
| F238 | A1 1371－1213 | 120 OHM 0．25W 5\％EHIP | K 7＊ |
| R239 | A1136日－13703 | 137 OHM 0．25W 1\％CHIP | K 8＊ |
| R248 | A11371－3333 | 33 K 日．25W 5\％LHIP 1210 | K $7 *$ |
| R241 | A11371－8211 | 日20 OHM 0．18W 5\％CHIP | L $\mathrm{B}^{*}$ |
| R242 | 125478－1 | $3.83 \mathrm{KOHM} \mathrm{0.50W} \mathrm{1} \mathrm{\%} \mathrm{201日} \mathrm{T/R}$ | L ${ }^{*}$ |
| R243 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K $日^{*}$ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $日^{*}$ |
| R245 | A11371－1213 | 120 OHM $0.25 \mathrm{~W} 5 \%$ CHIP | K $\mathrm{B}^{*}$ |
| R246 | A11371－1331 | 13 K OHM 日． 1 OW 5\％CHIP 0805 | 」 2＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R247 | A 1 1371－1011 | 100 OHM $0.10 \mathrm{~W} 5 \%$ CHIP 0805 | 」 2＊ |
| R248 | A1 1371－1811 | 180 OHM 0．10W 5\％CHIP | K $2^{*}$ |
| R250 | A11371－5R63 | 5.6 Q．25W 5\％CHIP | 」 ${ }^{*}$ |
| R252 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | K ＊＊$^{*}$ |
| R253 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N $3^{*}$ |
| R259 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 OHM D．10W 5\％LHIP | D $1^{*}$ |
| R251 | A11371－1331 | 13 K OHM 日．10W 5\％CHIP 0B05 | E 2＊ |
| F262 | A11371－4701 | 47 OHM D．10W 5\％LHIP | E 2＊ |
| R263 | A11371－1811 | $1 \mathrm{B0}$ OHM D．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | $5.60 .25 W 5 \%$ CHIP | E 2＊ |
| R267 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | E $4^{*}$ |
| A268 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 3＊ |
| R271 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | H 4＊ |
| R272 | 103199－1 | 0． 4 OHM 1W5\％ 2512 T／R | H ${ }^{*}$ |
| R274 | A1 136日－60432 | 604K OHM $0.125 \mathrm{~W} 1 \%$ LHIP 1206 | E $B^{*}$ |
| R275 | A11368－51111 | 5.11 K OHM 日．18W $1 \%$ CHIP 080．5 | E 日＊ |
| R276 | A1136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ EHIP 8日05 | E 8＊ |
| R277 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W}$ 1\％CHIP 0B85 | E $日^{*}$ |
| R27日 | A11368－90921 | 90．9K ロ．10W $1 \%$ CHIP 0B05 | L 9＊ |
| R279 | A11358－10031 | 100K 0．1W 1\％CHIP 0805 | E 7＊ |
| R280 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | E 日＊ |
| R281 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | M 1＊ |
| R282 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | D 日＊ |
| R283 | A11368－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0日05 | E $\mathrm{E}^{*}$ |
| R284 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | F 9＊ |
| R285 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W}$ 1\％CHIP 0905 | F 8＊ |
| R286 | A11368－10831 | 100K 0．1W 1\％CHIP 0805 | L 10＊ |
| R287 | A11368－15931 | 158K $0.10 \mathrm{~W} 1 \%$ CHIP 0B05 | K 10＊ |
| R288 | A1 1368－15831 | 158K 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | K 10＊ |
| R290 | A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0805 | N $3^{*}$ |
| R291 | A1136日－22601 | 226 OHM 0．10W 1\％LHIP D日05 | N 3＊ |
| R292 | A11368－60432 | 604 K OHM D． $125 \mathrm{~W} 1 \% \mathrm{CHIP} 1205$ | 」 9＊ |
| R293 | A1136日－10021 | 10K 1／10W 1\％CHIP DB05 | K 9＊ |
| R294 | A11371－8201 | 82 OHM 0．10W 5\％LHIP | 」 7 ＊ |
| R295 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | 」 7＊ |
| R296 | A1135日－10021 | $10 \mathrm{~K} 1 / 1$ QW 1\％CHIP DaD5 | K 9＊ |
| R297 | A11368－51111 | 5.11 K OHM ロ． 1 DW 1\％CHIP 0日®5 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－8R02 | 0．$\square$ OHM JUMPEA CHIP 1206 | K $\mathrm{B}^{*}$ |
| R300 | 103199－1 | Q． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | D 5＊ |
| R30 1 | 103199－1 | 0.4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | Ј 6＊$^{*}$ |
| R302 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5 ＊ |
| R305 | 103199－1 | 0.4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| :---: | :---: | :---: | :---: |
| R306 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 5＊ |
| R307 | 103199－1 | D． 4 OHM 1 W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R308 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | F $\mathrm{E}^{*}$ |
| R311 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R312 | 103199－1 | Q． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I $6^{*}$ |
| R313 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | G 7＊ |
| R314 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \% \mathrm{CHIP} 0805$ | G 7＊ |
| R315 | A11368－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0B05 | H 7＊ |
| R316 | A11368－10011 | 1 K ®．10W 1\％CHIP 0日05 | M 10＊ |
| R317 | A11371－3934 | 39 K OHM D．50W 5\％CHIP 1210 | N 8 |
| R318 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ． 25 W 5\％121日 SMT T／R | L 9 |
| R323 | A 11371 －0R02 | 0．$\triangle$ OHM J UMPER LHIP 1206 | $\square 8$ |
| R40］ | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D $3 *$ |
| R401 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 4＊ |
| R402 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 4＊$^{*}$ |
| R406 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| R407 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R40日 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{F}$ | F $3^{*}$ |
| R411 | 103199－1 | 0.4 OHM 1W $5 \% 2512$ T／R | H 4＊$^{*}$ |
| R412 | 103199－1 | Q． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I $3 *$ |
| R413 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | E 7＊ |
| R414 | A11371－3341 | $330 K$ D． $10 \mathrm{~W} 5 \%$ CHIP DED5 | E 7＊ |
| R415 | A 1136日－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | E 7＊ |
| R416 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | K 10＊ |
| R417 | A11371－3934 | 39 K OHM D．50W 5\％CHIP 1218 | K 7 |
| R418 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | K 8 |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5． 6 DHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.6 OHM 1 W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 1 10 OHM ． 25 W 5\％ 1210 SMT T／R | J 9 |
| R423 | A11371－0R02 | 0.0 OHM JUMPER CHIP 1206 | F B |
| R500 | A11358－10021 | 10K 1／10W 1\％LHIP 0B0S | A 3 |
| R501 | A1：368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ LHIP D805 | A 2 |
| R502 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | 日 2 |
| R503 | A1 1368－10021 | 10K 1／10W 1\％CHIP D日05 | B 2 |
| R504 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R506 | A11358－10021 | 10K 1／10W 1\％CHIP D日05 | A 2 |
| R50日 |  | OPEN | C． 2 |
| R600 | A11358－10021 | 10K 1／1日W 1\％CHIP 0日05 | A 1 |
| RED 1 | A11368－10021 | 10K 1／10W $1 \%$ CHIP 0805 | A 1 |
| F602 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R603 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R60 4 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 1 |
| R606 | A1136B－10021 | 10K 1／10W 1\％CHIP 0805 | B 2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only
CROWN INTERNATIONAL INC．

| PARTS LIST |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |  |
| R607 | A11371－8205 | B2 OHM 1W 5\％CHIP 2512 | A 1 |  |
| R60日 |  | OPEN | C 1 |  |
| S1 | 1024日8－1 | SPDT HORIZ SLIDE | L 10 |  |
| 52 | ᄃ 7325－1 | 2P 2 POS．PC SLIDE SW． | L 10 |  |
| T日1 | 102475－1 | 日LOCK， 5 POS TERMINAL | A 2 |  |
| TP38 | C 9895－9 | TEST POINT LOOP | K 1 |  |
| TP39 | ᄃ 9896－9 | TEST POINT LOOP | N 7 |  |
| U1 | C 5095－2 | POS． 15 VOLT REG． | H 10 |  |
| U1x | C 9918－1 | TO220 VEAT LLIP－ON HEATSINK | H 18 |  |
| $\pm 2$ | C 5096－0 | NEG． 15 VOL．T REG． | H 9 |  |
| ப $2 \times$ | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |  |
| U3 | 102486－1 | OPTO 日JT NPN SOIC－8 CTR $=100 \%$ | N10 |  |
| U4 | C 8252－5 | MC3307gD DUAL LO NOISE OP AMP | I 9 |  |
| U5 | C 8262－5 | MC3307gD DUAL LO NOISE OP AMP | N 9 |  |
| U100 | 102723－2 | OPTO CELL 0 ＝ 500 OHM | M 9 |  |
| ப101 | C 9012－3 | MC3307SD ULAD LO NQISE OP AMP | M 10 |  |
| ப102 | C 903a－8 | COMPARATOR，QUAD LM339D SO－14 | N 9 |  |
| ப104 | C 9038－8 | COMPARATOR，QUAD LM339D S0－14 | G 7 |  |
| ப105 | ᄃ 8262－5 | MC3307BD DUAL LD NOISE OP AMP | F 7 |  |
| ப10E | 127683－1 | SENSOR．CE THERMAL | N E |  |
| บ200 | 102723－2 | OPTO CELL ON＝500 OHM | K 9 |  |
| $\square 201$ | ［ 9012－3 | MC33079D QUAD LO NOISE OP AMP | 」 10 |  |
| $\pm 202$ | C 503日－8 | COMPARATOR，QUAD LM339D SO－14 | K 9 |  |
| 4204 | C 9038－8 | COMPARATOR，QUAD LM339D SO－14 | E 7 |  |
| $\cup 205$ | ᄃ 8252－5 | MC33078D DUAL LO NOISE OP AMP | E 7 |  |
| U206 | 127683－1 | SENSOR．LE THERMAL | N 3 |  |
| U500 | C 9012－3 | MC33079D OUAD LO NOISE OP AMP | A 2 |  |
| WP 1 | A11378－A050L | WIRE， 16 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | 103331－N050R | WIRE， 16 BLK／WHT TA日 $\times 5 \times$ T | A 9 |  |
| WP3 | A11379－Cด50U | WIRE，16 BLU FAST $\times 5 \times$ TERM | A 9 |  |
| WP4 | 101031－1 | 258 FASTON，AUTO INSERTAELE | D 7 |  |
| WP5 | 101031－1 | 250 FASTON．AUTO INSERTABLE | D 4 |  |
| WP6 | 127442－1 | PREP，EE HI－V WIRE | J 8 |  |
| WP7 | 101－31－1 | 250 FASTON，AUTO INSERTABLE | D 8 |  |
| Z1 |  | OPEN | E 9 |  |
| 1 | 102138－9 | PWB，CE100ロ／CEZロロロ MAIN／INPU | SEE COMP | MAP |
| 2 | 101016－1 | L日L，BARCODE， | SEE COMP | MAP |
| 3 | 125242－1 | CAP，625ID $\times 1^{\text {＂}}$ VINYL | SEE COMP | MAP |
| 4 | 126825－1 | SILICONE，CLEAR 302 SYRINGE | SEE COMP | MAP |
| 5 | 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | SEE COMP | MAP |
| 6 | 125483－1 | ALTIVATOR LOCTITE＂OUTPUT＂ | SEE COMP | MAP |
| 7 | 103180－1 | 日LIMPER．日． $4^{\prime \prime}$ TALL 日LK W／ADH | SEE COMP | MAP |
| TAPE | 5 6285－1 | TAPE，KAPTON（POLYIMIDE） $1 / 2^{\prime \prime}$ | SEE COMP | MAP |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## INACTIVE

For Reference Use Only


## Component Map

for use with
Main PWA 127353-3



INACTIVE

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { NONE } \\ \hline \text { MD3sede } \end{gathered}$ |  | 127353-3 | SHEET 20 OF 20 | (4) |
| 4 3 |  |  | 2 |  |  |  |


| E．C．N． | ZONE | REV． | DESCRIPTION | DATE | EY | APPAOVAL5 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | CHK | CM | EE | PE |
|  |  | A | INITIAL RELEASE FOR PRODUETION． | 03－83－99 | KLW | 96 | 16 |  | －2 |
|  |  |  |  |  |  |  |  |  |  |

## NOTES：

1．SCHEMATIC DRAWING NUMBER 102142
2．FWZ PART NLMEER $10213 B-9$.
3．THE PWA SHALL NEET THE IPC－A－6：0＿CLASS 2 STANDARDS．
4．ALL LEADS SHALL EE TRIMMED TO B．093＂OR LESS．
5．POSITION COMPONENTS AS SHOWN ON COMPONENT MAP．
6．COMPONENTS THAT HAVE（＊）AFTER THEIR MAP LOCATION
ARE MOUNTED ON THE BOTTOM SIDE OF THE PRINTED CIACUIT BOARD．
7．REMDVE SOLDER OR PREVENT SOLDER FROM ACCUMULATING IN HOLES．
日．THE VENT HOLE ON TOP OF THE RELAYS KIR日 AND KZ日E MUST 日E GPENED AFTER THE ELEANING PROCESS．GY EITHER REMOVING THE SEALING TAPE OR CUTTING OFF THE CIREULAF TAE WITH AN＂EXACTO＂KNIFE OR SIMULAR CUTTING TOOL．WARNING，THIS STEP MUST 日E DONE AFTER THE CLEANING PAOCESS NOT 日EFORE！！！WATER OR CLEANING SOLVENTS ENTERING THE felay vent hole will．damage the relay．
9．CONNECT THE WIRES THAT COME FROM 0123 AND 0223
TO WP4 AND WPS RESPECTIVELY．
10．THE PWA PART NUMEEF FOR THIS MODULE SHALL BE MARKED ON THE P．C．BOARD AND SHALL BE PERMANENT． THE PWA NUMBER．t 26883－2．SHALL EE PAINTED ON A LABEL AND THIS lagel shall ge placed on the component side of the finished INPUT MODULE．
11．INSTALLATION OF U10G AND U296 IS AS FOLLOWS：
TIA．REMOVE MIDDLE SLEEVE FROM TAANSISTOR H42902－9
11日．BEND TRANSISTOR AT 9日 DEG．FLAT SIDE DOWN
itc．Place transistor into the pwe as shown an THE COMPONENT MAP DETAIL E．
ItD．MIX OUTPUT EPQXY AND ACCELERATOR TOGETHER APPLY THE MIXTLARE TO THE TRANSISTOR AND HEATSINK， THE MIXTURE MUST FILL THE HEATSINK MOLE AND THE LEADS OF THE DEVICE，ESPECIALLY THE CENTER LEAD． （NOTE：NO VIStELE AIR GAPS ARDUND THE TRANSISTOR AND THE TRANSISTOR LEADS CANNOT TOUEH THE HEATSINK；
1tE．HDLD THE TRANSISTOR AGAINST THE HEATSINK UNTIL EPOXY SETS－UP
12．TOROUE 6－32 HEX NLTS \｛CPN A1105E－1\} AS FOLLOWS:
12A．PRE－WAVE TOROUE OF 4－6 INCH LBS．
12日．POST－WAVE AND WHEN ASSEMBLY HAS COOLED DOWN TO HANDLING TEMPERATURE TORQUE OF $13-15$ INCH LES．
13．INSTALL ل 3 CONNECTOR AS SHOWN ON COMPONENT MAP
14．INSTALL 52 REVERSED FROM SILK SCREENING．


THESE DAAWINGS and spectifications ahe the PROPERTY OF CROWN INTERNATIONAL．INC．AND SHALL NOT EE REPRODULED．COPIED，OA USED as the basis for the manufacture of sale of appafatus on devices without pemmission．

INACTIVE
For Reference Use Only

| PRINTS TO |  | CROWN <br> 1718 wEST MISHAWAKA ROAD |  |  | NTERNAT I DNAL <br> ELKHART，INDIANA 48517 |  |  |  |  |  | -8808 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K |  | PWA， |  | MA IN／INPUT |  |  | CE2000 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | dramn | 1KLw | 03－83－99 | APPAGVED 日Y： |  |  | do not scale paint |  |  |  |
|  |  | ChECKED | 9W | －3／03／99 | ME | Cri | 3－3－99 | 5UPE | ERSEDES |  |  |
|  |  | scale | No | NONE | EE |  |  | E．C． |  |  |  |
|  |  | proj ${ }^{\text {a }}$ |  | 390d9 | PE | 96 | 3－3－99 | DW | No． | $10 \% 21$ |  |
|  |  | LENAME： | 7354－t | A＿81．PCE |  | $\times \mathrm{T}$ ASN |  |  | 12735 |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATIQN |
| A10日20－7 | 6－32 $\times .625$ PCG CAPTIVE STLD | 8 | HW9，HW10．HW1 1，HW1 2，HW1 3，HW1 4， |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K 0．25W 1\％MF | 2 | R112．R212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R15日 |
| A10434－104JD | 0.1 MF 250 V 5 MTL POLY | 2 | C19日．e218 |
| A11056－1 | E－32 HEX NUT W／日ELLEVILLE | 8 | HW17．HW18．HW1 9，HW20．HW2 1． |
|  |  |  | HW22，HW23，HW2 4 |
| A11368－10011 | 1K 0．10W 1\％CHIP 0日05 | 8 | R101，R106，R110，R201，R20E， |
|  |  |  | R210，R316．R416 |
| A11368－16021 | 10K 1／10W 1\％CHIP 0805 | 35 | R9．R104．R1日7．R108，R111． |
|  |  |  | R121．R176．R177．R1日2．R185． |
|  |  |  | R193，R196，R204，R211，R221． |
|  |  |  | R276，R277，R282，R2日5，R293． |
|  |  |  | R296．R313．R413．R500．R501． |
|  |  |  | R502，R503，R504，R50E．R600． |
|  |  |  | R601，RED2，RSD3，RE04，R6DE |
| A11368－10031 | 108K 0．1W 1\％CHIP 0805 | 15 | R25，R30，R31，R123，R125，R179， |
|  |  |  | R183．R186．f189．R223．f225． |
|  |  |  | R279．R283．R2日6．R2日g |
| A11368－10221 | 10.2 K 0.10 W 1\％CHIP 0日05 | 2 | R11日，R218 |
| A11358－10703 | 107 OHM 0．25W 1\％EHIP | 2 | R139．R239 |
| A113E8－12121 | 12.1 K OHM 0．10W 1\％CHIP BBD5 | 1 | R2 1 |
| A11368－15002 | 150 OHM 0．125W 1\％CHIP | 2 | R137，R237 |
| A1 1368－15831 | 158K 0．10W 1\％CHIP 0805 | 8 | R122，R124，R187．R1日旦，R222． |
|  |  |  | R224，R2日7，R288 |
| A1136日－19122 | $13.1 \mathrm{~K} \mathrm{0.125W} 1 \%$ CHIP 1205 | 2 | R109，R209 |
|  | 20K 日．1W 1\％0日日5 T／A | 1 | R27 |
| A11368－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10．R184．R284 |
| A11368－22601 | 226 OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 4 | R116．R191．R216．R291 |
| A11368－39231 | 392K 0．10W 1\％CHIP 0805 | 6 | R22．R23，R102，R180，R282，R280 |
| A11368－49901 | 499 OHM $0.10 W$ \％\％CHIP D日® | 2 | R103．R203 |
| A11368－49921 | 49．9K 0．1 W $1 \%$ CHIP 0805 | 2 | R126．R226 |
| A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | 6 | R113．R175．R213．R275，R315．R415 |
| A11368－57621 | 57． 5 K ロ．10W 1\％CHIP 0B05 | 4 | R20．R24．R190．R290 |
| A11368－60432 | 604K OHM D． $125 \mathrm{~W} 1 \%$ CHIP 1206 | 4 | R174．R192．R274，R292 |
| A11368－61911 | 6．19K 0．10W 1\％LHIP 8日05 | 2 | R197．R297 |
| A1 1368－68121 | 6B．1K B．1日W 1\％CHIP | 3 | R12，R115，R215 |
| A11368－69811 | 6．98K OHM 日．10W 1\％CHIP B805 | 1 | R5 |
| A11368－75R03 | 75 OHM 0．25W $1 \%$ CHIP 1218 | 2 | R145，R245 |
| A11368－71511 | $7.15 \mathrm{~K} \mathrm{OHM} \mathrm{0.10W} \mathrm{1} \mathrm{\%} \mathrm{CHIP} \mathrm{0805}$ | 1 | R18 |
| A11368－82511 | 日． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 3 | R17，R114．R214 |
| A11368－90921 | 90．9K 0．10W 1\％LHIP 0805 | 4 | R120．R17日，R220，R278 |
| A11368－93111 | 9．31K 0．1W $1 \%$ CHIP 0805 | 1 | R6 |
| A11369－102J2 | 0.001 UF 50V 5\％NPO MLC 0805 | 2 | C134． 2334 |
| A11369－120k2 | 12PF 50V 10\％NPO 0日05 T／R | 6 | C500． $5501.5502 .5600 .5601 .5602 ~$ |
| A11369－270K2 | 27PF 50V 10\％NPO 0日05 T／R | 2 | C107． 2207 |
| A11369－330． 2 | 33PF 50V 5\％NPQ MLC D日05 | 2 | ［142．C242 |
| A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | 4 | C110．C141．C210．c241 |
|  |  |  |  |
|  |  |  |  |

PARTS LIST

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIENATION |
| A11371－0R02 | Q． 0 OHM JUMPEF CRIP 1206 | 4 | R199．R299，R323，R423 |
| A11371－0A21 | Q． 2 OHM 0．10W 5\％CHIP 0805 | 3 | R14，R15，R33 |
| A $11371-1011$ | 10 O OHM 0．10W 5\％LHIP 0805 | 3 | R13．R147，R247 |
| A11371－1013 | 100 OHM ．25W 5\％1218 SMT T／R | 2 | R322．R422 |
| A11371－1022 | 1K 0．125W 5\％CHIP 1206 | 1 | FB |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R130，R144，R23日，R244 |
| A1 1371－1331 | 13 K OHM Q． $10 \mathrm{~W} 5 \%$ CHIP 0805 | 4 | R146．R161，R246，R261 |
| A11371－1501 | 15 OHM 日．10W 5\％CHIP | 5 | C606，C607，C608，R160．R260 |
| A11371－1811 | 180 DHM $0.10 W 5 \%$ LHIP | 4 | R148，R163，R248．R263 |
| A11371－2223 | 2．2K 0.25 W 5\％EHIP 1210 | 2 | R132．R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | P4．R19 |
| A11371－3333 | 33 K 日．25W 5\％CHIP 1210 | 6 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | $330 K$ Q．10W 5\％CHIP 0805 | 7 | R3，R11，R25．R117，R217．R3i4， |
|  |  |  | R414 |
| A11．371－3923 | 3．9K 0.25 W 5\％CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39K OHM 0．50W 5\％CHIP 1218 | 4 | R317．R31日，R417．R418 |
| A1 1371－4781 | 47 DHM 0．10W 5\％CHIP | 2 | R162．R262 |
| A11371－4724 | 4．7K OHM D．50W 5\％CHIP 2010 | 2 | R142，R242 |
| A11371－5E15 | 586 OHM 1W 5\％ 2512 T／R | 2 | F32，R34 |
| A11371－5A63 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 4 | R150，R165．R250．R265 |
| A11371－5R65 | 5．6 OHM 1W 5\％LHIP 2512 | 2 | R420，R421 |
| A11371－5B14 | 680 OHM 0．50W 5\％CHIP | 6 | F105，R128．R181．R205．R228．R281 |
| A1 1371－8821 | 6．8K 0．10W 5\％CHIP DBQ5 | 2 | Rt27．R227 |
| A11371－7511 | 758 OHM 0．10W 5\％CHIP | 3 | A28．R133．R233 |
| A1 1371－8201 | 82 DHM D．10W 5\％CHIP | 4 | R136．R194．R236，R294 |
| A11371－8205 | Q2 OHM IW 5\％CHIP 2512 | 1 | R507 |
| A11371－8211 | Q2b OHM 0．10W 5\％CHIP | 6 | R123，R141，R195，R229，R241，R295 |
| A1．1378－A050U | WIRE， 15 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－C05®U | WIRE， 16 ELU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | 0.01 MF 58 V 10\％CHIP 0805 | 4 | C109，C111．C209，C211 |
| A11427－103K5 | D．D1MF 50V 5\％×7R 1206 | 2 | C143．c243 |
| A11427－104K2 | 0.1 MF 50V 10\％0805 | 33 | C2．C6．C7，С12．C24．C25．C28．C29， |
|  |  |  | C115．C122．C126．ᄃ127．C128． |
|  |  |  | C129．C130．C131．C132．C133． |
|  |  |  | ᄃ139，ᄃ215．c222，C226．C227． |
|  |  |  | ᄃ228，ᄃ229，ᄃ230，C231．С232． |
|  |  |  | c233．c239．c505．c506．c605． |
|  |  |  |  |
| A11427－123K2 | 0.012 MF 50 V 10\％CHIP | 2 | C112．C212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | 2 | C117，C217 |
| A11427－472K2 | 4700pF 50V 10\％X7R 0805 | 4 | C116．［119．C216．C219 |
| A12125－3140K | WIRE， 22 WHT $3 / 16 \times 14 \times$ FAST | 1 | WP6 |
| C 2851－1 | 1 N 40045 LLICON RECT． | 7 | D1，D2，D3，D4，D6，D7，D10 |
| C 3510－2 | CHOKE，470LH 10\％AXIAL | 4 | L100，L101．L200．L201 |
| C 3549－0 | DIDDE ZENER，18V． 1 N5240B | 1 | DB |
| C 3679－5 | 33LF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35V VERT | 2 | C4，C5 |
|  |  |  |  |

PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| C 5095－2 | POS． 15 VOL．T REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT AEG． | 1 | U2 |
| C 5362－6 | 2.2 MF S0V VERT | 1 | C27 |
| C 6802－0 | 47 MF 58 V AX CERM | 2 | С102．c202 |
| C 7091－9 | 0.33 MF 50 V CHIP 1206 | 3 | C22．c14日． 2240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE SW． | 1 | 52 |
| C 7448－1 | MMET3904 CHIP NPN | 6 | 0180．0181．0129．0200．0201．0229 |
| C 8262－5 | MC33078D DUAL LO NDISE OP AM | 4 | ப4．ப5． 4105.4205 |
| C 8576－8 | $10 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| C 9012－3 | MC33079D OUAD LO NOISE OP AM | 3 | U101．U201，U500 |
| C 3038－8 | COMPARATOR，QUAD LM339D S0－1 | 4 | ப102，ப104，ப202，ப204 |
| C 9157－6 | 100 UF $16 \mathrm{~V} 20 \%$ NP ELEC RAD T／ | 2 | C123．C223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOA | 2 | Q104．0204 |
| C 3283－0 | DIODE，iNS14／1N414B SOT－23 S | 56 | D9，D13，D101．D102，D103，D184 |
|  |  |  | D185．D186．D107．D108．D109． |
|  |  |  | D110．D1！1．D112．D113．D116． |
|  |  |  | D117．D118，D119，D120，D121． |
|  |  |  | Di22，D1 23，D124，D125，D126， |
|  |  |  | D127．D1 28，D129．D130．D201． |
|  |  |  | D202．D203．D204．D205．D206． |
|  |  |  | D207，D20B，D209，D210，D211． |
|  |  |  | D212．D213．D216．D217．D218． |
|  |  |  | D221，D222，D223，D224，D225， |
|  |  |  | D226，D227，D22日，D229，D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP3B．TP39 |
| C 931日－1 | TO220 VERT CLIP－ON HEATSINK | 2 | U1×，U2X |
| C 9931－4 | MMBT5087LT1 PNP XSISTOR SOT－ | 6 | Q102．0109．0111．0202，0209，0211 |
| C10196－1 | 2．2MF 50V 20\％RAD T／A | 4 | C121．C124．C221．C224 |
| C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105． 2205 |
| C10422－1 | DIODE，3A 400V 1 N5404 AXIAL | 4 | D114．D115．D214．D215 |
| ᄃ10613－5 | 1 K TOP ADJUST TRIMMER T／A | 2 | R134，R234 |
| D 19917－3 | 8200UF 110 VDC ELECTROLYTIC | 2 | C2B．C21 |
| H42902－9 | ASM．THERMAL SENSE | 2 | ப186，ப285 |
|  |  |  |  |
| 101816－1 | LBL．BARCODE，， | 1 | 2 |
| 101031－1 | 250 FASTON．ALTO INSERTABLE | 3 | WP4，WP5．WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK，6P4 COND MODULAR R／A | 1 | J 5 |
| 102138－9 | PWG，CE10ロロ／CE200ロ MAIN／INPU | 1 | 1 |
| 102438－101k2 | $100 \mathrm{CFF} 208 \mathrm{~V} 10 \% \mathrm{NPD} 0805$ | 8 | C104．C120．C135．C204．C220，C235 |
| 12243日－560K2 | 56PF 200V 10\％NPO 0805 | 4 | C106． $206.5504 . \mathrm{C604}$ |
| 102438－820×2 | 92PF 20日V 10\％NPO 0905 | 4 | C188，ट138．С288． 2238 |
| 102455－1 | 47UF 50V 20\％AADIAL T／R | 2 | C101．c201 |
| 1024E5－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102467－1 | 22MF 25V 20\％RAD T／R | 4 | ᄃ103，ᄃ203，5503． 5683 |
| 102468－1 | $47 \mathrm{LF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | 4 | ［113．C114．C213．C214 |
| 102470－1 | INDUCTOR， 2.75 LH 11A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR，12POS 2.5 MM AT ANG KEYE | 1 | J502 |
| 102472－3 | HDR． 16 PQS .100 CTR SGL ROW | 1 | J 3 |

## INACTIVE

For Reference Use Only


## PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| 102473－1 | SPEAKON， 4 POLE PCB HORZ | 2 | J100， 3200 |
| 102475－1 | 日LOCK， 5 POS TERMINAL | 1 | T日1 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1．E101．E201 |
| 182477－1 | LED，SMT R／A RED | 4 | E100．E102．E200．E202 |
| 102478－1 | TRIAC DRIVER S日S 日V THRESH | 2 | 0132．0232 |
| 10247日－1 | PWR MJD1 12 NPN DARLINGTON 10 | 3 | 01． 02.03 |
| 102480－1 | FET，N－CH 25V 50MA SOT－23 | 2 | Q133，Q233 |
| 102481－1 | NPN 25V LOW NOISE SOT－23 | 2 | 0108， 0208 |
| 102483－1 | PNP 300V 500MA SOT－23 | 2 | 0103.0203 |
| 102486－1 | OPTO BJT NPN SQIC－G CTR－100 | 1 | ப3 |
| 102488－1 | SPDT HDRIZ SLIDE | 1 | 51 |
| 102573－3 | HS ASM，T2 ISOLATED CH1， | 1 | HS3 |
| 102574－3 | HS ASM，T2 ISOLATED CH2． | 1 | HS 4 |
| 182575－3 | HS ASM，T2 NON－ISOLATED CH1． | 1 | HS 1 |
| 102576－3 | HS ASM，T2 NON－ISOLATED CH2， | 1 | HS2 |
| 102578－1 | SPACER，6X． 125 AL BLK ANODIZ | 8 | HW1，HW2，HW3，HW4，HW5，HW6．HW7， |
|  |  |  | HW8 |
| 102579－1 | STAND， $1 / 4$ RD SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT，5K LIN 21 DNT 12MM HDRI | 2 | R100．R200 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 102723－2 | OPTO CELL ON－50】 OHM | 2 | ப100，ப200 |
| 1031日8－1 | 日LIMPER，0．4＂TALL 日LLK W／ADH | 3 | 7 |
| 103191－1 | 0.47 UF Z5U $121020 \% 50 \mathrm{~V}$ | 2 | C144．С244 |
| 103192－1 | NPN 30日V 500MA 5®MHZ SOT－223 | 4 | Q107．0110，प207，Q210 |
| 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 4 | 0105．0120．0205．0220 |
| 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 54 | R1，R7，R152．R153，R154．R155． |
|  |  |  | R156，R157，R159，R167，R168， |
|  |  |  | R169，R170，R171，R172，R252， |
|  |  |  | R253，R254，R255．R256，R257， |
|  |  |  | R259．R267，R268．R269，R270． |
|  |  |  | R271．R272，R300．R301．R302． |
|  |  |  | R303，R304，R305，R306，R307． |
|  |  |  | R308，R309，R310，R311，R312． |
|  |  |  | R400，R401，R402，R403，R404． |
|  |  |  | R405，R406，R407，R40日，R409． |
|  |  |  | R418，R411．R412 |
| 103210－1 | 2．2UF 160 V RADIAL T／A | 4 | С135，С137．С236，С237 |
| 103331 －N050R | WIRE， 16 日LK／WHT TA日 $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103435－70608 | SCREW， $6-32 \times .5$ TORX PNHD SEM | 2 | HW27，HW28 |
| 125106－1 | MACGD 6 AMP 4日DV TRIAC | 2 | 0131，0231 |
| 125242－1 | CAP，． 625 ID $\times 1^{\prime \prime}$ VINYL | 1 | 3 |
| 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | 0 | 5 |
| 125483－1 | ACTIVATOR LOCTITE＂ロUTPUT＂ | 0 | 6 |
| 12550日－1 | 10 LF SQVDC ELECTROLYTIC SMD | 2 | C3． 630 |
| 126317－1 | REL， 30 A 24 V SPST PCE W／FAST | 2 | K100，K200 |
| 126825－1 | SILICONE．CLEAR 3OZ SYRINGE | 0 | 4 |
| 126929－1 | 1／4＂TRS／XLR COMBO PCB VERT | 2 | J500，J600 |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESERIPTION | MAP LOC． |
| C1 | 102466－1 | 10 UF $250 \mathrm{~V} 20 \%$ RADIAL $T /$ A | 」 8 |
| C2 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F 9＊ |
| C3 | 12558日－1 | 1 DUF 50VDC ELECTROLYTIC SMD | 1 日 |
| C4 | C 4477－3 | 470 MF 35V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35 V VERT | G 9 |
| C6 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H 10＊ |
| C7 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | H 9＊ |
| C12 | A11427－104K2 | D． 1 MF 50V 10\％8日05 | I 9＊ |
| C20 | D 8917－3 | 日20日UF 118 VDC ELECTROLYTIC | ［ 9 |
| C21 | D 8917－3 | 820日UF 110 VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | N 9＊ |
| C24 | A11427－104K2 | 0．1 MF 50V 10\％0805 | N 9＊ |
| C25 | A11427－104K2 | 0.1 MF 50V 10\％0805 | －9＊ |
| C26 | C 8576－8 | 100 MF 35 V 10\％ELEC | I 9 |
| C27 | C 5362－8 | 2.2 MF 50 V VERT | H 10 |
| C28 | A11427－104K2 | D． 1 MF 50V 10\％0805 | J 9＊ |
| C29 | A11427－104K2 | 0．1 MF 50V 10\％ถBQ5 | I 9＊ |
| C30 | 125580－1 | 1 DUF 50VDC ELECTROLYTIC SMD | I 8 |
| C31 | C 3679－5 | 33LF 50V 20\％VERT ELECT | 110 |
| C101 | 102465－1 | 47LF 50V 20\％RADIAL．T／R | M 9 |
| C102 | C 6日02－9 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 20\％RAD T／R | M 9 |
| C104 | 10243日－101K2 | 100PF 200V 10\％NPO 0日Q | M 9＊ |
| C105 | C1028日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | ᄂ 9 |
| C108 | 102438－550K2 | 56PF 200V 10\％NPO 0805 | L 9＊＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO R805 T／R | L 9＊ |
| ᄃ108 | 10243日－820K2 | 82PF 20日V 10\％NPO g日05 | L 10＊ |
| C109 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP} 0805$ | H 6＊ |
| C119 | A11369－471K2 | 470PF 50V 18\％NPD 0B05 T／R | M 7＊ |
| C111 | A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | N 日＊ |
| C112 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | O $\mathrm{B}^{*}$ |
| C113 | 10246日－1 | 47UF 10V 20\％NP RAD T／R | N 8 |
| C114 | 10246日－1 | 47UF 10V $20 \% \mathrm{NP}$ RAD T／R | N 日 |
| C115 | A11427－184K2 | 0．1 MF 50V 10\％D日05 | N 日＊ |
| C116 | A11427－472K2 | 4700PF 50V 10\％×7R 0日05 | N 7＊ |
| C117 | A11427－272K2 | 2700PF 50V 10\％CHIP 0805 | I 7＊ |
| C118 | A10434－104JD | D． 1 MF 250V 5\％MTL POLY | I 日 |
| C119 | A11427－472K2 | 4700PF 50V 10\％X7A 0805 | I 7＊ |
| C120 | 10243日－101k2 | 100 PF 200 V 10\％NPO 0日05 | $17 *$ |
| C121 | C10196－1 | 2．2MF 50V 20\％RAD T／R | G 日 |
| C122 | A11427－104K2 | 0．1 MF 50V 10\％B日Q5 | F 日＊ |
| C123 | C 9157－5 | 100LF 16V 20\％NP ELEC RAD T／R | F B |
| C124 | C10196－1 | 2．2MF 50V 20\％RAD T／A | L 9 |
| C126 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0805 | N 10＊ |
| C127 | A11427－104K2 | 0．1 MF 50V 10\％0805 | N 9＊ |
| C12日 | A11427－104K2 | 0.1 MF 50V 10\％0805 | M 10＊ |
| C129 | A1 1427－104K2 | D． 1 MF 50V 10\％0805 | M 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PAFTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C：30 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H 8＊ |
| C131 | A11427－104K2 | 0．1 MF 50V 10\％0805 | H 7＊ |
| C132 | A11427－194K2 | D． 1 MF 58 V 10\％0805 | F 7＊ |
| C133 | A11427－104K2 | 0．1 MF 50V 10\％0805 | F $\mathrm{G}^{*}$ |
| C134 | A11369－1日2J2 | 0.001 UF 50V 5\％NPO MLC 0805 T／ | M 7＊ |
| C135 | 10243日－1日1K2 | 10ロPF 20日V 10\％NPQ 0日B5 | N 7＊ |
| C136 | 10321日－1 | 2． 2 LF 160 V RADIAL $T / \mathrm{R}$ | I 7 |
| C137 | 103210－1 | 2．2LF 160V RADIAL T／R | 17 |
| C138 | 102438－820K2 | 82PF 20日V 10\％NPO DQB5 | M 7＊ |
| C139 | A11427－104K2 | 0.1 MF 50V 10\％0805 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | L 9 |
| C141 | A11359－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPD 0日®5 T／R | N 10 |
| C142 | A1：359－330 J 2 | 33PF 50V 5\％NPO MLC 0805 | M 10 |
| C143 | A11427－103K5 | ロ． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1208$ | M 9＊ |
| C144 | 10319\}-1 | 0.47 UF 25U 1210 20\％50V | G 7＊ |
| C201 | 102465－1 | ． 47 LF 50V 20\％RADIAL T／R | 」 9 |
| C202 | C 6BD2－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | K 9 |
| C204 | 102438－101K2 | 10日PF 20日V 10\％NPO 0805 | Ј 9＊ |
| C205 | C1020日－4 | 100 MF $25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| C206 | 10243日－560K2 | 56PF 200V 10\％NPO DQ05 | Ј J＊$^{\text {J }}$ |
| C207 | A11389－270K2 | $27 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPQ} 0805 \mathrm{~T} / \mathrm{R}$ | 」 J＊$^{\text {J }}$ |
| C20日 | 10243日－820K2 | 日2PF 20ロV $10 \%$ NPO 0B05 | 」10＊ |
| C209 | A11427－103K2 | ロ． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ LHIP 0日05 | H 3＊ |
| C210 | A11369－471K2 | $470 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 日B05 $T / R$ | K 7＊ |
| C211 | A11427－103K2 | D． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | K 7＊ |
| C212 | A11427－123K2 | D． $12 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | L $\mathrm{G}^{*}$ |
| C213 | 10245日－1 | $47 \mathrm{UF} 10 \mathrm{~V} 20 \% \mathrm{NP}$ RAD T／R | K 8 |
| C214 | 10246日－1 | 47 F 10 V 20\％NP RAD T／R | $K 8$ |
| C215 | A11427－104K2 | 0.1 MF 50V 10\％0805 | K 8＊ |
| C216 | A11427－472K2 | 47 U日PF 50V 10\％×7R 0日05 | J $\mathbf{Z}^{*}$ |
| C217 | A11427－272K2 | 270日PF 50V 10\％EHIP 0885 | D $1 *$ |
| C218 | A10434－104JD | 0.1 MF 250V $5 \%$ MTL POLY | I 1 |
| C219 | A11427－472K2 | 47 包 50 V 10\％×7月 0日ロ5 | E f＊ |
| C220 | 1日243日－1日1K2 | 1句F 20日V 10\％NPO 0805 | D 2＊ |
| C221 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \%$ RAD T／R | E $\mathrm{B}^{\text {d }}$ |
| C222 | A11427－1日4K2 | ⿹． 1 MF 50V 10\％0日05 | E 日＊ |
| C223 | C 9157－6 | 100UF 16V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | J 9 |
| C226 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \% 0805$ | K 10＊ |
| C227 | A11427－104K2 | 0.1 MF 50V 10\％0805 | K 9＊ |
| C228 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | 」 $1 \square^{*}$ |
| C229 | A11427－104K2 | 0．1 MF 50V 10\％0805 | 」 $9^{*}$ |
| C230 | A11427－104K2 | 0．1 MF 50V 10\％ロB05 | E 8＊ |
| C231 | A11427－104K2 | 0．1 MF 50V 10\％0805 | E 7＊ |
| C232 | A11427－104K2 | D． 1 MF 50V 10\％Q8D5 | E 7＊ |
| $\underline{C 233}$ | A11427－104K2 | 0． 1 MF 50V 10\％ロ805 | D 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C234 | A11369－102J2 | 0.001 LF 50V 5\％NPO MLC 0805 T／ | 」 7＊ |
| C235 | 102438－101K2 | 100PF 200V 10\％NPO 0日05 | 」 2＊ |
| C236 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2．2UF 160 V RADIAL T／A | I 1 |
| C238 | 102438－820K2 | 日2PF 200V 10\％NPD D日®5 | 」 7＊ |
| C239 | A11427－104K2 | D． $1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 8005 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A1 1389－471K2 | 470PF 50V 10\％NPO 0日B5 T／R | L 10 |
| C242 | A11369－330．J2 | 33PF 50V 5\％NPO MLC 日B05 | K 10 |
| C243 | A1 1427－103K5 | ロ． 81 MF 50 V 5 $\times 7 \mathrm{R} 1206$ | K $9^{*}$ |
| C244 | 103191－1 | 0．47UF Z5U $121020 \% 50 \mathrm{~V}$ | E 7＊ |
| C500 | A11369－120K2 | 12PF 50V $10 \%$ NPO 0805 T／R | A 2 |
| c501 | A 11 369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| C502 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | 日 2 |
| ᄃ503 | 102467－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C504 | 102438－550K2 | 5SPF 200V 10\％NPO 0日05 | A 2 |
| C505 | A11427－104K2 | D． 1 MF 50V 10\％0805 | A 2 |
| C506 | A11427－104K2 | 0.1 MF 50V $10 \%$ 0005 | A 2 |
| C509 |  | OPEN | 日 2 |
| C800 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| C801 | A11369－120K2 | 12PF 50V $10 \%$ NPO 0805 T／R |  |
| C602 | A113日9－120K2 | 12 PF 58 V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| CED3 | 102467－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C604 | 102438－560k2 | 56PF 200V 10\％NPO 0日05 | 日 2 |
| C605 | A11427－104K2 | 0． 1 MF 50V 10\％ 2805 | A 1 |
| C506 | A11371－1501 | 15 OHM． $1 \mathrm{~W} 5 \%$ 0805 T／R |  |
| C607 | A11371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \%$ 0805 T／R | C 3 |
| C608 | A11371－1501 | 15 OHM． $1 \mathrm{~W} 5 \%$ 0日05 T／R | B 1 |
| C609 |  | OPEN | B 2 |
| D1 | C 2851－1 | 1N4004 SILICON RECT | G 9 |
| D2 | C 2日51－1 | 1N4004 SILICON RECT | G 10 |
| D3 | C 2日51－1 | 1 N4004 SILICON RECT． | G 10 |
| D4 | C 2日51－1 | 1N40日4 SILICON RECT | G 10 |
| D6 | C 205i－1 | 1N40日4 SILICON RECT | J 8 |
| D7 | C 2日5i－1 | $1 \mathrm{N4004}$ SILICON RECT | 」 8 |
| D日 | C 3549－0 | DIODE ZENER，10V， 1 N5240B | 」 8 |
| D9 | C 9283－® | DIODE，1N914／1N4148 SOT－23 SMT | I 9＊ |
| D10 | C 2851－1 | 1 N 4004 SILICON RECT． | I 10 |
| D13 | C 9283－0 | DIDDE．1NG14／1N4148 SDT－23 SMT | I 9＊ |
| D101 | C 9283－0 | DIDDE， 1 N914／1N4148 SOT－23 SMT | N 9＊ |
| D102 | C 9283－0 | DIQDE，1N914／1N4148 SOT－23 SMT | N 9＊ |
| D103 | C 9283－8 | DIODE，1N914／1N4148 SQT－23 SMT | L 9＊ |
| D104 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | M $9^{*}$ |
| D165 | C 92日コ－方 | DIODE，1N914／1N4148 SOT－23 SMT | L 9＊ |
| D106 | C 9283－0 | DIDDE，1N914／1N4148 SOT－23 SMT | N $\mathrm{Q}^{*}$ |
| D107 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 8＊ |
| D108 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 日＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



PARTS LIST

| REF DES | C．P．N． | DESERIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| D228 | C 92日3－0 | DIODE， 1 N914／1N414日 SOT－23 SMT | E 7＊ |
| D229 | C 9283－0 | DIODE．1N914／1N4149 SOT－23 SMT | F 6＊ |
| D230 | C 9283－0 | DIODE．1NS14／1N414日 SOT－23 SMT |  |
| E 1 | 102476－1 | LED，SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | J 1 |
| E1®1 | 102476－1 | LED．SMT R／A GREEN | J 1 |
| E102 | 102477－1 | LED，SMT R／A RED |  |
| E200 | 102477－1 | LED，SMT R／A RED |  |
| E201 | 102476－1 | LED．SMT $\mathrm{A} / \mathrm{A}$ GREEN |  |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| HS 1 | 102575－3 | HS ASM．T2 NON－ISDLATED CH1． | L 5 |
| HS2 | 102570－3 | HS ASM．T2 NON－ISOLATED CH2， |  |
| HS3 | 102573－3 | HS ASM．T2 ISOLATED CH1． | $G 6$ |
| HS 4 | 102574－3 | HS ASM，T2 ISOLATED CH2． | 63 |
| HW1 | 102578－1 | SPACER，6X． 125 AL 日LK ANODIZED | A 4 |
| HW2 | 10257日－1 | SPACER．EX． 125 AL BLK ANODIZED | A 4 |
| HW3 | 102578－1 | SPACER．EX． 125 AL GLK ANODIZED | A 4 |
| HW4 | 102578－1 | SPACER． $5 \times 125$ AL BLK ANODIZED | A 4 |
| HW5 | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANODIZED | A 4 |
| HWE | 102578－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANODIZED | B 4 |
| HW7 | 102579－1 | SPACER， $6 \times .125$ AL ELK ANODIZED | 84 |
| HW8 | 10257日－1 | SPACER， $6 \times .125 \mathrm{AL}$ GLK ANODIZED | 84 |
| HWG | A10日20－7 | $6-32 \times .625$ PCE CAPTIVE STUD | D 5 |
| HW1 1 | A1002日－7 | 6－32 $\times$ ． 625 PCB CAPTIVE STUD | I 6 |
| HW1 1 | A10020－7 | $6-32 \times$ ． 625 PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PC日 CAPTIVE STUD | 13 |
| HW1 3 | A10020－7 | 6－32 $\times .625$ PCG CAPTIVE STUD | 」 5 |
| HW1 4 | A10020－7 | 6－32 $\times$ ． 625 PCE CAPTIVE STUD | N 6 |
| HW15 | A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | 」 2 |
| HW16 | A1002D－7 | E－32 $\times .625$ PCE CAPTIVE STUD | N 3 |
| HW 7 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW1日 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW19 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW20 | A11056－1 | E－32 HEX NUT W／BELLEVILLE | A 4 |
| HW21 | A）1056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW22 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | 日 4 |
| HW23 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW2 4 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW25 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW27 | 183435－7060日 | SCREW．6－32 $\times$ ． 5 TORX PNHD SEM | A 4 |
| HW2日 | 103435－7060日 | SCREW，6－32 $\times .5$ TORX PNHD SEM | A 4 |
| 」 2 | 101573－1 | HDR 4 POS． 1 CTR MTA SHRD | G 10 |
| 13 | 102472－3 | HDA，16POS． 100 ETR SGL ROW | M 8 |
| 14 | 181571－1 | HDR 2 POS． 1 CTR MTA SHAD | L 10 |
| 15 | 101993－1 | JACK．EP4 COND MODULAR R／A |  |
| J180 | 102473－1 | SPEAKON， 4 POLE PCE HORZ | D 10 |
| 」 200 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | F 10 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| R21 | A11368－12121 | 12．1K OHM D．10W 1\％LHIP 0885 | 」 9＊ |
| R22 | A1135日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | $19^{*}$ |
| R23 | A1136日－39231 | 392K 日．10W 1\％CHIP 0805 | I 9＊ |
| P24 | A11368－57621 | 57．6K 0．10W 1\％CHIP 0805 | I ${ }^{*}$ |
| R25 | A11368－10031 | 180K 0．1W 1\％LHIP 2 ODS | N 9＊ |
| R26 | A11371－3341 | 330 K 0．10W 5\％CHIP 0日05 | A 9＊ |
| R27 | A1136日－20021 | 20K 1／10W 1\％CHIP B日05 | L 9＊ |
| R2日 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L 9＊ |
| R29 |  | OPEN | 日 2 |
| R30 | A11368－10031 | 100K ロ．1W $1 \%$ CHIP 8BQ5 | I $8^{*}$ |
| R31 | A11368－10031 | 10日K 0．1W $1 \%$ CHIP B805 | 」 $8^{*}$ |
| R32 | A11371－5615 | 560 OHM 1W5\％ $2512 \mathrm{~T} / \mathrm{A}$ | 」 日 |
| R33 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 」 8 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12 MM HORIZ |  |
| R101 | A11368－10011 | 1K 日．18W 1\％CHIP 0805 | M 10＊ |
| R102 | A1 1368－39231 | 392K 0．10W 1\％CHIP 0005 | N 9＊ |
| R103 | A1 1368－49981 | 499 OHM 0．10W 1\％CHIP B日Q | N 9＊ |
| R184 | A1 1368－19021 | 10K 1／18W 1\％CHIP 0日05 | N 9＊ |
| R105 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| R186 | A11358－10011 | 1K 0．10W 1\％CHIP 0805 | M 9＊ |
| R107 | A11368－10021 | 10K 1／10W 1\％CHIP D日0s | L 10＊ |
| R108 | A11368－10021 | 10K 1／10W 1\％CHIP 8日05 | L 10＊ |
| R109 | A11358－19122 | 19．1K 0．125w $1 \%$ CHIP 1206 | M 9＊ |
| 8110 | A11368－10011 | 1K ロ．10W 1\％CHIP 0805 | L 9＊ |
| R111 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0日05 | L 9＊ |
| R1 12 | A10265－19121 | 13．1K 0．25W 1\％MF | L 9 |
| R113 | A11368－51111 | 5．11K OHM 0．10W 1\％CHIP 8805 | L 10＊ |
| R114 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | L 18＊ |
| R115 | A11368－68121 | 6日．1K B．10W 1\％CHIP | L 16＊ |
| R116 | A11368－22601 | 226 OHM D． $10 \mathrm{~W} 1 \% \mathrm{CHIP}$ g日05 | M 9＊ |
| R117 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \% \mathrm{CHIP}$ 0日05 | M 9＊ |
| R118 | A1 1388－10221 | 10．2K D．10W 1\％CHIP 0日B5 | M 10 |
| P119 | A11371－3333 | 33 K 0.25 W 5\％CHIP 1210 | M ${ }^{*}$ |
| 8120 | A11368－90921 | 90．9K 0．10W 1\％LHIP 0日05 | M 9＊ |
| R121 | A11358－19021 | 10K 1／10W 1\％CHIP 8日05 | M 10 |
| R122 | A11368－15日31 | 15日K 0．10W 1\％CHIP 0805 | N $9^{*}$ |
| Q123 | A1 1368－10031 | 100K 日．1W $1 \%$ CHIP 0805 | M ${ }^{*}$ |
| R124 | A1 1368－15031 | 15日K 0．10W 1\％EHIP 0805 | M $9^{*}$ |
| R125 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 8B05 | N 9＊ |
| F126 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0805 | M 9＊ |
| R127 | A11371－6821 | 6．8K 0．10W 5\％CHIP 0日05 | N 9＊ |
| R128 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | J 1＊ |
| R129 | A11371－8211 | 820 OHM D．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | －8＊ |
| R131 |  | OPEN | 0 8＊ |
| R132 | A11371－2223 | 2． 2 K 日．25W 5\％CHIP 1210 | H $8^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R133 | A11371－7511 | 750 OHM 0.10 W 5\％CHIP | H 6＊ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7 ＊ |
| R136 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M 7 ＊ |
| R137 | A11368－15002 |  | N 日＊ |
| R138 | A11371－1213 | 120 OHM D．25W 5\％CHIP | N日＊ |
| R139 | A11368－18703 | 107 OHM 0．25W $1 \% \mathrm{CHIP}$ | N 日＊ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N 日＊ |
| R141 | A11371－8211 | 日20 OHM D．10W 5\％CHIP | 口 $\mathrm{B}^{*}$ |
| R142 | A11371－4724 | 4．7K OHM D．50W 5\％EHIP 2010 | O 日＊ |
| R143 | A11371－3333 | 33K 日．25W 5\％CHIP 1210 | N ${ }^{*}$ |
| R144 | A11371～1213 | 120 OHM 0．25W 5\％CHIP | N $\mathrm{B}^{*}$ |
| R145 | A1136日－75A03 | 75 OHM 日．25W 1\％LHIP 1210 | N 日＊＊ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0B05 | N $7 *$ |
| R147 | A11371－1011 | 100 OHM 0．10W 5\％LHIP 0日®5 | N 7＊ |
| R149 | A11371－1811 | 180 OHM 日．10W 5\％CHIP | M 7＊ |
| R150 | A11371－5R63 | $5.60 .25 W 5 \% \mathrm{CHIP}$ | N 6＊ |
| R152 | 103199－1 | Q． 4 ロHM 1W 5\％ 2512 T／R | K 6＊＊ |
| A153 | 103199－1 | 0． $4 \mathrm{OHM} 1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R154 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | L 6＊ |
| R155 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 5＊ |
| R156 | 103195－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
| R157 | 103199－1 | 0．4 DHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| ค15日 | A10266－2R74 | 2.7 口HM $2 \mathrm{~W} 5 \% \mathrm{CF}$ | I 日 |
| R159 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／A | D $5^{*}$ |
| R180 | A11371－1501 | 15 ロHM $0.10 \mathrm{~W} 5 \%$ CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM D． $10 \mathrm{~W} 5 \%$ EHIP 0日®5 | H 7 ＊ |
| R162 | A11371－4701 | 47 OHM 0．10W 5\％CHIP | H 7＊ |
| R163 | A11371－1811 | 1日0 OHM 日．10W 5\％LHIP | ［ 7 ＊ |
| R165 | A11371－5R63 | 5.6 D． 25 W 5\％CHIP | I 5＊ |
| R167 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | E 5＊ |
| ค16日 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R189 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | F 6＊ |
| R170 | 103199－1 | 2．4 OHM 1W 5\％ 2512 T／R | G 5＊ |
| R171 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／R | G E＊ |
| A172 | 103199－1 | Q． 4 DHM 1W 5\％ 2512 T／R | H 6＊ |
| R174 | A11368－60432 | 604K OHM 0．125W 1\％CHIP 1206 | G 8＊ |
| R175 | A11368－51111 | 5.11 K OHM 0．10W $1 \%$ CHIP 0805 | G $8^{*}$ |
| R176 | A11368－10021 | 10K 1／10W 1\％CHIP D805 | G 8＊ |
| R177 | A1 1368－10021 | 10K 1／10W 1\％CHIP 08日5 | H $\mathrm{O}^{*}$ |
| R178 | A11368－90921 | 90．9K $\triangle .10 \mathrm{~W} 1 \%$ CHIP 0 Q05 | N 9＊ |
| R179 | A11368－10031 | 10日K 0．1W 1\％CHIP 0e0s | F 7＊ |
| R180 | A11368－39231 | 392 K D． $10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | G $\mathrm{E}^{*}$ |
| R191 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | 」 ${ }^{*}$ |
| R182 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | F $日^{*}$ |
| F183 | A11368－10031 | 10日K Q．1W $1 \%$ CHIP 日805 | F 旦＊ |
| R184 | A11368－20023 | 2日K D．25W $1 \%$ CHIP 1210 | F 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTIUN | MAP LOC． |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3.9 O ¢ 25W 5\％CHIP | 」 7＊ |
| R236 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | 」 7＊ |
| R237 | A1138日－15082 | 150 OHM $0.125 \mathrm{~W} 1 \% \mathrm{CHIP}$ | K $\mathrm{日}^{*}$ |
| R23B | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A1136日－10703 | 107 OHM 0．25W 1\％CHIP | K $8^{*}$ |
| R24］ | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | L 8＊ |
| R242 | A11371－4724 | $4.7 \mathrm{~K} \mathrm{OHM} \mathrm{D}. \mathrm{50W} \mathrm{5} \mathrm{\%} \mathrm{CHIP} \mathrm{2010}$ | L 7＊ |
| R243 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \% \mathrm{CHIP} 1210$ | K $日^{*}$ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $\mathrm{B}^{*}$ |
| R245 | A1138日－75R63 | 75 OHM 0．25W 1\％CHIP 1210 | K $\mathrm{B}^{*}$ |
| R245 | A11371－1331 | 13 K OHM Q．10W 5\％CHIP 0805 | 」 2＊ |
| R247 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | 」 $2^{*}$ |
| R24日 | A11371－1日11 | 1日0 OHM 0．10W 5\％CHIP | K ${ }^{*}$ |
| R250 | A11371－5R63 | 5．6 0．25W 5\％LHIP | 」 2＊ |
| R252 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 4＊ |
| R253 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K ${ }^{*}$ |
| R254 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | L 4＊＊ |
| R255 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | M 3＊ |
| R256 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 4＊ |
| R257 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D $3^{*}$ |
| R260 | A11371－1501 | 15 OHM D．10W 5\％CHIP | D $1^{*}$ |
| R261 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | E 2＊ |
| R262 | A11371－4701 | 47 OHM B． $10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | E 2＊ |
| R263 | A11371－1日11 | 1 100 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5．6 0．25W 5\％CHIP | E 2＊ |
| R267 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | E $4 *$ |
| F26日 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F $3^{*}$ |
| F269 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 4＊ |
| R270 | 103199－1 | 0．4 OHM iW 5\％ 2512 T／R | G 3＊ |
| R271 | 103199－1 | 0.4 OHM iW $5 \% 2512 \mathrm{~T} / \mathrm{R}$ | H 4＊ |
| R272 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A1136日－60432 | 804K OHM 0．125W 1\％CHIP 1206 | E ${ }^{*}$ |
| R275 | A1136日－51111 | 5．11K OHM D． 10 W 1\％CHIP 0805 | E $8^{*}$ |
| R276 | A1138日－10021 | 10K 1／10W 1\％CHIP 0805 | E 8＊ |
| R277 | A1138日－10021 | 10K 1／10W 1\％CHIP De0s | E 8 ＊ |
| R278 | A1136日－90921 | 90．9K 0．10W 1\％LHIP 0805 | L．${ }^{*}$ |
| R279 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日®5 | E 7＊ |
| R280 | A1138日－39231 | 392K 0．10W 1\％CHIP 0805 | E 8＊ |
| R281 | A11371－6日14 | S日0 OHM 0．5日W 5\％CHIP | M 1 ＊ |
| R282 | A1136日－10021 | 10K 1／10W 1\％CHIP 8日05 | D 8＊ |
| R283 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 8日®S | E 8＊ |
| R284 | A1136日－20023 | 20K 0．25W $1 \%$ CHIP 1210 | F $9^{*}$ |
| R285 | A1136日－10021 | 10K 1／1日W 1\％LHIP 8BDS | F $\mathrm{O}^{*}$ |
| R286 | A1135日－10931 | 100 K D． $1 \mathrm{~W} 1 \%$ CHIP 0005 | L 18＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R2日7 | A1136日－15日31 | 158K 0．10W 1\％EHIP 0805 | K 10＊ |
| R2日g | A1136日－15日31 | 158K 6．10W 1\％CHIP 0日85 | K 10＊ |
| R2日9 | A1136日－19031 | 100K Q．1W 1\％CHIP 2805 | K 10＊ |
| R290 | A1138日－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0885 | N 3＊ |
| R291 | A11368－22601 | 226 OHM D． $10 \mathrm{~W} 1 \%$ CHIP 0日85 | N3＊ |
| R292 | A1136日－69432 | 604K OHM 0．125W 1\％CHIP 1206 | J 9＊ |
| R293 | A1138日－10021 | 1日K 1／1日W 1\％CHIP 0805 | K 9＊ |
| F294 | A11371－8201 | 日2 OHM 0．18W 5\％CHIP | 」 7 ＊ |
| R295 | A11371－8211 | 日20 DHM 0．10W 5\％EHIP | J 7＊ |
| R296 | A1136日－19021 | 10K 1／10W 1\％CHIP 0805 | K 9＊ |
| R297 | A1136日－E1911 | Б． $19 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－6RE2 | 0.8 OHM JUMPER CHIP $120 \bar{\square}$ | K 8 ＊ |
| R300 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | D 6＊ |
| R301 | 103199－1 | 0． 4 OHM iW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 ＊$^{*}$ |
| R302 | 103199－1 | 0． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R303 | 103199－1 | 0.4 OHM IW 5\％ 2512 T／R | L $\mathrm{E}^{*}$ |
| R304 | 103199－1 | 0.4 OHM iW 5\％ 2512 T／R | M 5＊ |
| R305 | 183199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 6 ＊ |
| R306 | 103199－1 | 0．4 OHM iW 5\％ 2512 T／R | N 5 ＊ |
| R307 | 103199－1 | 0．4 OHM iW 5\％ 2512 T／R | E 6＊ |
| R308 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F $5^{*}$ |
| R309 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | E $5^{*}$ |
| R318 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 6 E＊ |
| R311 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R312 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | I E＊$^{*}$ |
| R313 | A11 368－10021 | 10K 1／10W 1\％LHIP 0805 | G 7＊ |
| R314 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \%$ CHIP 0805 | G 7＊ |
| R315 | A11368－51111 | $5.11 \times$ OHM 0．10W 1\％CHIP 0805 | H 7＊ |
| R316 | A11368－10011 | $1 \mathrm{~K} \mathrm{Q} .10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 0日05 | M 10＊ |
| R317 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N B |
| R318 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N $\theta$ |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ． 25 W 5\％1210 SMT T／R | L 9 |
| R323 | A11371－0R02 | 0.0 OHM JUMPER CHIP 1206 | G B |
| R400 | 193199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 3＊ |
| R401 | 103199－1 | 0．4 QHM iW 5\％ 2512 T／R | J 4＊ |
| R402 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R403 | 103199－1 | 0.4 OHM iW $5 \% 2512$ T／R | L 4＊ |
| R404 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M $3^{*}$ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 4＊ |
| R406 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| R407 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R408 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | F 3＊ |
| R409 | 103199－1 | 0.4 OHM iW 5\％ 2512 T／R | G 4＊ |
| R410 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | G 3＊ |
| R411 | 103199－1 | 0.4 OHM iW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 4＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R412 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | I 3＊ |
| F413 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | E 7＊ |
| 8814 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | E 7＊ |
| R415 | A1136日－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP D日05 | E 7＊ |
| R416 | A1138日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| F417 | A11371－3934 | 39 K OHM $0.50 \mathrm{~W} 5 \%$ EHIP 1210 | $K 7$ |
| R418 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | K 日 |
| R419 |  | OPEN | K 10＊ |
| 9420 | A11371－5月65 | 5.6 OHM 1W 5\％CHIP 2512 | H1＊＊ |
| 9421 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1813 | 100 OHM ． 25 W 5\％ 1210 SMT T／R | 」 9 |
| R423 | A11371－0R02 | D． 0 OHM JUMPER CHIP 1206 | F B |
| F500 | A1135日－10021 | 10K 1／10W 1\％CHIP 0805 | A 3 |
| f50 1 | A113EB－10921 | 10K 1／1日W 1\％CHIP 0805 | A 2 |
| R502 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0805 | B 2 |
| R503 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0805 | B 2 |
| R504 | A1135日－10021 | 10K 1／10W 1\％CHIP 0ges | A 2 |
| R506 | A1136日－10021 | 10K 1／18W $1 \%$ EHIP 0805 | A 2 |
| R50日 |  | DPEN | C 2 |
| F600 | A11358－10921 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| P600 | A1136日－10021 | 10K 1／I日W 1\％CHIP 0885 | A 1 |
| F6002 | A1135日－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R603 | A11368－10021 | 10K 1／10W 1\％CHIP 0BD5 | A 2 |
| R604 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| f606 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | B 2 |
| F607 | A11371－8205 | 82 OHM 1W 5\％CHIP 2512 | A 1 |
| F690 |  | OPEN | C 1 |
| S1 | 1024日8－1 | SPDT HOAIZ SLIDE | L 10 |
| 52 | C 7325－1 | 2P 2 PDS．PC SLIDE SW． | L 10 |
| TE1 | 102475－1 | ELOCK， 5 POS TERMINAL | A 2 |
| TP38 | C 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | ᄃ 9896－9 | TEST POINT LOOP | N 7 |
| U1 | C 5095－2 | POS． 15 VOLT AEG． | H 10 |
| U1 $\times$ | C 991日－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |
| ப2 | C 5096－0 | NEG． 15 VOLT REG． | H 9 |
| U2 $\times$ | C 991日－1 | TO22日 VEAT CLIP－ON HEATSINK | H 9 |
| 13 | 10248E－1 | OPTO BJT NPN SOIC－8 CTR－100\％ | N 10 |
| ப4 | C 日262－5 | MC33078D DUAL LO NOISE OP AMP | I 9 |
| L5 | ［ 8252－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |
| U108 | 102723－2 | QPTO CELL ON＝500 OHM | M 9 |
| 4101 | ᄃ 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |
| U102 | C 9038－8 | COMPARATOR，QLAD LM339D SO－14 | N 9 |
| U104 | C 9038－9 | CDMPARATOR，QLAD LM339D SD－14 | G 7 |
| ப105 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | F 7 |
| U106 | H42982－9 | ASM．THERMAL SENSE | N 6 |
| บ200 | 102723－2 | OPTO CELL ON＝500 OHM | K 9 |
| U201 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | 」 10 |
| 4202 | C 903日－8 | COMPARATOR，QLIAD LM339D S0－14 | K 9 |
| 1204 | C 903日－8 | COMPARATOR，QUAD LM3 39D SO－14 | E 7 |
|  |  |  |  |

## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |  |
| :---: | :---: | :---: | :---: | :---: |
| U205 | C $1262-5$ | MC3307日D DUAL LO NOISE OP AMP | E 7 |  |
| U206 | H42982－9 | ASM，THERMAL SENSE | N 3 |  |
| U500 | C 9012－3 | MC33079D QUAD LQ NQISE OP AMP | A 2 |  |
| WP 1 | A11378－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | 103331－N050R | WIRE， 15 日LK／WHT TAB $\times 5 \times$ T | A 9 |  |
| WP3 | A11379－c050ப | WIRE， 16 BLU FAST $\times 5 \times$ TERM | A 9 |  |
| WP 4 | 181031－1 | 250 FASTON，AUTO INSERTABLE |  |  |
| WP5 | 101031－1 | 250 FASTON，AUTO INSERTA日LE |  |  |
| WP6 | A12125－314BK | WIRE， 22 WHT 3／16×14 $\times$ FAST | J 8 |  |
| WP7 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D 8 |  |
| Z1 |  | OPEN | E 9 |  |
| 1 | 102138－9 | PW日，CE1000／CE2000 MAIN／INPU | SEE COMP | MAP |
| 2 | 101815－1 | LBL，BARCODE， | SEE COMP | MAP |
| 3 | 125242－1 | CAP．．625ID $\times 1^{\text {² }}$ VINYL | SEE COMP | MAP |
| 4 | 126825－1 | SILICONE，CLEAR 3OZ SYRINGE | SEE COMP | MAP |
| 5 | 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | SEE COMP | MAP |
| 8 | 1254日3－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | SEE COMP | MAP |
| 7 | 1031日0－1 | 日UMPER，D．4＂TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 103180－1 | 日UMPER，0．4＂TALL BLK W／ADH | SEE COMP | MAP |
| 7 | 103180－1 | 日UMPER， $0.4^{*}$ TALL BLK W／ADH | SEE COMP | MAP |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## Component Map

for use with
Main PWA 127354-1


$\xrightarrow{\text { INACTIVE }}$


| E.E.N. | ZONE | REV. | DESCAIPTION | DATE | 9 | APPAOVALS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | DATE | EY | CHK | CM | EE | PE |
|  |  | A | INITIAL RELEASE FOR PRDDUCTIDN. | 03-29-99 | KLW | Jan | $\bigcirc$ | Coh | \%8 |
|  |  |  |  |  |  |  |  |  |  |

NOTES:

1. SCHEMATIC DRAWING NUMEER 102142.
2. PWB PART NUMBEA 102138-9.
3. THE PWA Shall meet the ift-a-Eid. clas5 2 5tandabds.
4. ALL LEADS SHALL EE TRIMMED TO 0.093" DR LESS.
5. POSITION COMPONENTS AS SHOWN ON COMPDNENT MAP.
6. COMPONENTS THAT have (*) after their map location are mounted on the bottom side df the printed ciriuit bdahd.
7. remove solder of prevent solder from accumulating IN HOLES.
b. the vent hole on top of the relays kige and k2be must be opened aftem the cleaning process. by either memoving the sealing tape or cutting off the circular tab with an "exacto" knife of simular CUTting tool. warning. this step must be done after the cleaning PROCESS NOT BEFDRE!!! WATER OR CLEANING SDLVENTS ENTERING TME relay vent hole will damage the relay.
8. CONNELT THE WIRES THAT COME FROM 0123 AND D223

TO WP4 AND WPS RESPECTIVELY.
10. The pwa part number for this module shall. ee MARKED DN THE TOP SIDE DF THE P. [. gDard and Shall be peamanent. use a marker and mark out the old pwa numbers on the bottom. The pwa number, $126883-2$. shall be printed on a label and this label shall be placed on the component side of the finished infut module.
11. INSTALLATION OF U1EE AND U206 IS AS FOLLOWS:

11A. REMDVE MIDDLE SLEEVE FROM TRANSISTOR H42902-9
118. BEND TRANSISTOR AT 90 dEg. FLAT SIDE DOWN
115. PLACE transistor into the pwe as shown on the component map detail g.
11D. mix dutput epdxy and actelerator together. apply the mixture to the transistor and heatsink. the mixture must fill the heatsink hole and the leads dF the device. especially the center lead. ( Note: No Visible air gaps around the transistor and the transistor leads cannot touch the heatsink)
IIE. HOLD THE TRANSISTOR AGAINST THE HEATSINK UNTIL EPOXY SETS-LP
12. TORQUE B-32 HEX NUTS (CPN A11856-1) AS FDLLOWS:

12A. PRE-WAVE TORQUE OF 4-E INCH LES.
12日. POST-WAVE AND WHEN ASSEmaly has cooled down to handling temperature toroue of 13-15 inch les.
13. INSTALL 13 CONNECTDR AS SHOWN ON COMPONENT MAP
14. INSTALL S2 REVERSED FROM SILK SCREENING.


CAUTION

STATIC CAN DAMAGE COMPDNENTS:
INACTIVE
For Reference Use Only DD NDT HANDLE

UNLESS WRIST STRAP IS WORN

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL. INC. AND SHALL NOT EE REPRODULED. COPIED, OR USED AS THE EASIS FOR TWE MANUFACTUAE OR SALE of apparatus or devices without periaission.

| PRINTS TO |  | CROWN INTERNATI <br> 171日 WFST MISHAWAKA ROAD <br> ELKHART. INDIANA 48517 <br> PWA, MAIN/INPUT CE2DDD |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $K$ |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { TOL UNLESS SPE } \\ \times . \times x=1 \\ x . \times x \times \\ \text { DRILLS } \end{array}$ | $1 F I E D$ . 828 0.618 .083 |
|  |  | DRAMN | KLW | 03-29-99 |  | PPRQV | ED EY : |  | NOT SCALE PRIN |  |
|  |  | CMECKED | 4aw | 0329-99 | ME | Cxic | 3-30-99 | SLP | DES |  |
|  |  | SCALE | 7 | NONE | EE | Als | Alp | E. $C$ |  |  |
|  |  | PRDJ \# |  | 390 D0 | PE | (12) | $3-30-97$ | DWG. ND. SMEET I OF 21 127354-2 |  |  |
|  |  | FILENAME:327354-2_A_e1.PLE |  |  | NEXT ASM: |  |  |  |  | (A) |

PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A10020－7 | 6－32 $\times .625$ PCE CAPTIVE STUD | 8 | HW9，HW10，HW1 1，HW1 2，HW1 3．HW1 4． |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K 0．25W 1\％MF | 2 | R112．A212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R15日 |
| A10434－104JD | 0.1 MF 258V 5\％MTL POLY | 2 | C11日，C21日 |
| A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 8 | HW1 7，HW18．HW1 9．HW20．HW2 1， |
|  |  |  | HW22，HW23．HW2 4 |
| A1135日－19011 | 1K 0．10W 1\％CHIP 0日05 | B | R101．R106．R110．R201．R206． |
|  |  |  | R210．R316．8416 |
| A11368－10021 | 10K 1／10W 1\％EHIP 0805 | 35 | R9，R104，R107，R108，R111， |
|  |  |  | R121．R176，R177．R182，R185． |
|  |  |  | R193．R196．R204，R211．R221， |
|  |  |  | R276．R277．R282，R2日5．R293， |
|  |  |  | R296．R313．R413，R500．R501． |
|  |  |  | R502，R503，R50 4，R506，RE0日， |
|  |  |  | R601．R602．R683，RG04，R608 |
| A11368－10031 | 100K 0．1W 1\％CHIP 0805 | 15 | R25．R30，R31，R123，R125．R179， |
|  |  |  | R183．R186．R189，R223，R225． |
|  |  |  | R279，R2日3，R286，R289 |
| A11368－10221 | 10．2K 0．10W 1\％CHIP 0日85 | 2 | R11日，R218 |
| A11368－10703 | 107 DHM 0．25W $1 \%$ CHIP | 2 | R139，R239 |
| A11368－12121 | 12．1K OHM D．10W 1\％CHIP D805 | 1 | R21 |
| A1136B－15002 | 150 OHM 0．125W $1 \%$ CHIP | 2 | R137，R237 |
| A11368－15831 | 158K $0.10 \mathrm{~W} 1 \%$ CHIP Q日05 | 8 | R122，R124，R1 B7．R188，R222． |
|  |  |  | R224，R287，R2日8 |
| A1136日－19122 | 19．1K 0．125W 1\％CHIP 1206 | 2 | R109，R209 |
| A1136日－20021 | 20K 0．1W 1\％0805 T／R | 1 | R27 |
| A1136日－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10，R184，R284 |
| A1136日－22601 | 226 OHM 0．10W $1 \%$ CHIP D日05 | 4 | R116．R191．R216，R291 |
| A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | B | R22，R23．R102，R1日0，R292，R280 |
| A1136日－49901 | 499 OHM 0．10W $1 \%$ CHIP 0805 | 2 | R103．R203 |
| A11368－49921 | 49．9K ロ．1W 1\％LHIP 0895 | 2 | R126．R226 |
| A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日05 | 6 | R113．R175，R213，R275，R315，R415 |
| A11368－57621 | 57. EK 0．10W 1\％CHIP 0805 | 4 | R20．R24，R190，R290 |
| A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1206 | 4 | R174．R192．R274，R292 |
| A11368－61911 | 6．19K 0．10W 1\％CHIP 0805 | 2 | R197，R297 |
| A1136日－6日121 | $68.1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | 3 | R12．R115，R215 |
| A11368－69811 | 6.98 K OHM D．10W 1\％CHIP 0805 | 1 | R5 |
| A11368－75月03 | 75 OHM ロ．25W 1\％CHIP 1210 | 2 | R145．R245 |
| A11368－71511 | 7.15 K OHM 0．10W 1\％CHIP 0日05 | 1 | R1日 |
| A 11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | 3 | R17．R114．R214 |
| A11368－90921 | 99．9K 0．10W 1\％CHIP 0905 | 4 | R120，R17日，R220，R27日 |
| A1136日－93111 | $9.31 \mathrm{~K} \mathrm{0.1W} 1 \% \mathrm{CHIP} 0805$ | 1 | ¢6 |
| A11369－102J2 | 0.001 LF 50 V \％NPO MLE 0805 | 2 | C134．C234 |
| A11369－120K2 | 12 PF 50 V 10\％NPO 0日05 T／R | 6 | C500．C501．C502，C600．C601．C602 |
| A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | 2 | ᄃ107．c207 |
| A11369－330」2 | 33PF 50V 5\％NPD ML．C 0805 | 2 | C142．C242 |
| A11369－471K2 | 470PF 50V 10\％NPO 8日®5 T／R | 4 | ᄃ110．C141．C210．C241 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| A11371－0R02 | B．$\square$ DHM JUMPER CHIP 1206 | 4 | R199，R299，R323，R423 |
| A11371－DR21 | 0.2 DHM 0．10W 5\％CHIP 0805 | 3 | R14．R15，R33 |
| A11371－1011 | 100 OHM 0．10W 5\％CHIP 0日05 | 3 | R13．R147．R247 |
| A11371－1013 | 100 OHM．25W $5 \% 1210$ SMT T／R | 2 | R322，R422 |
| A11371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | 1 | R8 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R138，R144．R239，R244 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 4 | R146，R1它1，R245，R261 |
| A11371－1501 | 15 DHM 0．10W 5\％CHIP | 5 | C606．C607． $\mathrm{CE0日}, \mathrm{R150.R260}$ |
| A11371－1811 | 180 OHM D．18W 5\％CHIP | 4 | R148，R163，R24日，R263 |
| A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2．2K 1W 5\％CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 0．25W 5\％LHIP | 2 | R4，R19 |
| A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 6 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330K 日．10W 5\％CHIP 0805 | 7 | R3．R11，R26，R117．R217．R314． |
|  |  |  | H414 |
| A11371－3923 | 3．9K 0．25W 5\％CHIP | 3 | R16，R135，R235 |
| A11371－3934 | 39K DHM B．5®W 5\％CHIP 1210 | 4 | R317．R318．R417，R418 |
| A11371－4701 | 47 DHM D．10W 5\％CHIP | 2 | R162，R262 |
| A11371－4724 | 4．7K OHM D．50W 5\％CHIP 2010 | 2 | R142．R242 |
| A11371－5615 | 560 OHM 1W 5\％ 2512 T／R | 2 | R32，R34 |
| A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 4 | R150．R165．R250．R265 |
| A11371－5RE5 | 5．6 ロHM 1W 5\％CHIP 2512 | 2 | R420．8421 |
| A11371－6日14 | 6日0 OHM 0．50W 5\％CHIP | 6 | R105，R128，R1日1，R205，R22日，R2日1 |
| A11371－6821 | 6．9K 0．10W 5\％CHIP 0805 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R28．R133，R233 |
| A11371－8201 | 日2 0HM $0.10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 4 | R136，R134，R236，R294 |
| A11371－8205 | Q2 OHM 1 W 5\％CHIP 2512 | 1 | R507 |
| A11371－8211 | 日20 OHM 0．10W 5\％CHIP | 6 | R129，R141，R195．R229，R241，R295 |
| A1137B－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP 1 |
| A11379－C650L | WIRE， 16 BLU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | 4 | C109．C111．C209．C211 |
| A11427－103K5 | В． $81 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | 2 | C143，С243 |
| A11427－104K2 | 0.1 MF 50V 10\％ 0805 | 33 | C2，C6，C7，C12，C24，C25．C28，C29． |
|  |  |  | C115．ᄃ122．C126．C127，C128． |
|  |  |  | С129，С130，С131，С132，С133， |
|  |  |  | C139，ट215．c222．c226．c227． |
|  |  |  | c228．c229．c230．c231．C232． |
|  |  |  | C233． $2339 . \mathrm{C505}, \mathrm{C505.C605}$, |
|  |  |  |  |
| A11427－123K2 | Q．012 MF 50V 10\％CHIP | 2 | C112．ᄃ212 |
| A1 1427－272K2 | 2700PF 50V 10\％LHIP 0805 | 2 | C117．C217 |
| A11427－472K2 | 4700 PF 50V 10\％$\times 7 \mathrm{R}$ 0805 | 4 | C116．C119，C216．C219 |
| C 2851－1 | 1 N 40 O 4 SILICON RECT． | 7 | D1，D2，D3，D4，D6，D7，D18 |
| C 3510－2 | CHOKE． 470 UH 10\％AXIAL | 4 | L． $100 . L 101, L 200 . L 201$ |
| C 3549－0 | DIODE ZENER，10V，1N5240日 | 1 | D8 |
| C 3679－5 | 33LF $50 V 20 \%$ VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4，C5 |
|  |  |  |  |
|  |  |  |  |



PARTS LIST

| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| :---: | :---: | :---: | :---: |
| C 5095－2 | POS． 15 VOLT REG． | 1 | ப1 |
| C 5096－0 | NEG． 15 VOL．T REG． | 1 | 12 |
| C 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| C 6802－0 | 47 MF 50 V AX CERM | 2 | C．102．c202 |
| c 7091－9 | 0.33 MF 50 V LHIP 1206 | 3 | C22．C149．c240 |
| C 7325－1 | 2P 2 PQS．PC SLIDE SW． | 1 | 52 |
| C 744日－1 | MM1T3904 EHIP NPN | 6 | Q100．0101．0129．0200．0201．0229 |
| C 日262－5 | MC33078D DUAL LO NOISE DP AM | 4 | U4，U5，ப105． 4205 |
| C 8576－8 | 100 MF 35V 10\％ELEC | 1 | C26 |
| c 9012－3 | MC33079D QUAD LO NOISE OP AM | 3 | U191．ப201．ப500 |
| C 903日－日 | COMPARATOR，QUAD LM339D SO－1 | 4 | ப102，ப104，ப202，ப204 |
| C 9157－6 | 100UF 16V 20\％NP ELEC RAD T／ | 2 | C123．［223 |
| C 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | Q104．0204 |
| C 9283－0 | DIODE，1N914／1N4148 SOT－23 5 | 56 | D9，D13，D101．D102．D103，D104， |
|  |  |  | D105．D106，D107，D108，D109， |
|  |  |  | D110．D111．D112．D113．D116． |
|  |  |  | D117．D118，D119，D120，D121． |
|  |  |  | D122，D123，D124，D125，D126． |
|  |  |  | D127，D128，D129，D130，D201． |
|  |  |  | D202，D203．D204，D205．D206． |
|  |  |  | D207，D20日，D209，D210，D211， |
|  |  |  | D212．D213，D216，D217．D218， |
|  |  |  | D221，D222，D223，D224，D225． |
|  |  |  | D228．D227．D22B，D229，D230 |
| C 9896－9 | TEST POINT LOQP | 2 | TP38，TP39 |
| ［ 9918－1 | TO220 VERT CLIP－ON HEATSINK | 2 | U1×． $\mathrm{U}^{2} \mathrm{X}$ |
| C 5931－4 | MMET50日7LT1 PNP XSISTOA SOT－ | 6 | 0102，0109，0111，0202．0209，0211 |
| C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 4 | C121．c124，C221．c224 |
| C10208－4 | 100 MF $25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105． 2005 |
| C10422－1 | DIODE，3A 400V 1 N5404 AXIAL | 4 | D114．D115．D214，D215 |
| C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134，R234 |
| D 8917－3 | 日200LF 110 VDC ELECTROLYTIC | 2 | C20．c21 |
| H42902－9 | ASM，THERMAL SENSE | 2 | U106． U 206 |
| 101016－1 | LBL，BARCODE． | 1 | 2 |
| 101031－1 | 250 FASTON．AUTO INSERTABLE | 3 | WP 4，WP5，WP7 |
| 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS． 1 CTR MTA SHRD | 1 | J 2 |
| 101993－1 | JACK． 6 S4 COND MODLLAR R／A | 1 | J 5 |
| 102138－9 | PW日，CE100日／CE20®D MAIN／INPU | 1 | 1 |
| 102438－101 K2 | 100PF 200V 10\％NPO 0805 | 6 | C104，c120．C135．c204．C220，C235 |
| 102438－560K2 | 56PF 200V 10\％NPO リ805 | 4 | C108，ट206， 5504,5604 |
| 102438－日20k2 | 日2PF 200V 10\％NPO 0805 | 4 | C108．С138，ट20B，C23日 |
| 182465－1 | 47LF 50V 20\％RADIAL T／R | 2 | C101，c201 |
| 102466－1 | 10LF 250V 20\％RADIAL T／R | 1 | C1 |
| 102457－1 | 22MF 25 V 20\％RAD T／R | 4 | C103． 2203.5503 .5683 |
| 10246B－1 | 47UF 10V 20\％NP RAD T／R | 4 | C113．C114，C213．C214 |
| 102470－1 | INDUCTOR，2．75UH 11A RADIAL | 2 | L102，L202 |
| 102471－2 | HDR， 12 POS 2.5 MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，16POS ． 101 CTR SGL ROW | 1 | J 3 |
| 182473－1 | SPEAKON， 4 POLE PCE HORZ | 2 | J100．J 200 |

## INACTIVE

For Reference Use Only

|  <br>  |
| :---: |
|  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENLE DESIGNATION |
| 102475－1 | BLOCK， 5 POS TERMINAL | 1 | TE1 |
| 102476－1 | LED，SMT R／A GREEN | 3 | E1，E101．E201 |
| 102477－1 | LED，SMT R／A RED | 4 | E160．E102．E200，E202 |
| 102478－1 | TRIAC DRIVER S日S EV THRESH | 2 | 0132．0232 |
| 102479－1 | PWR MJD112 NPN DARLINGTON 10 | 3 | ロ1， $12 . \square 3$ |
| 1024日处1 | FET．N－CH 25V 50MA SOT－23 | 2 | Q133．0233 |
| 1024日1－1 | NPN 25V LOW NOISE SOT－23 | 2 | Q108， 0208 |
| 102483－1 | PNP 308V 50日MA SOT－23 | 2 | Q103． 0283 |
| 102486－1 | OPTO 日」T NPN SOIC－日 CTR $=100$ | 1 | U3 |
| 10248日－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102573－3 | HS ASM．T2 ISOLATED CH1，，， | 1 | H53 |
| 102574－3 | HS ASM．T2 ISOLATED［H2．． | 1 | HS 4 |
| 102575－3 | HS ASM．T2 NON－15OLATED CH1， | 1 | HS 1 |
| 102576－3 | HS ASM． $\mathrm{T} 2 \mathrm{NON-ISOLATED} \mathrm{CH2}$, | 1 | HS2 |
| 10257日－1 | SPACER， $6 \times .125 \mathrm{AL}$ BLK ANODIZ | 8 | HW1，HW2，HW3，HW4，HW5，HW6，HW7． |
|  |  |  | HWE |
| 102579－1 | STAND， $1 / 4$ RD SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT，5K LIN 21 DNT 12 MM HORI | 2 | R100．R200 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 102723－2 | OPTO CELL ON＝50日 OHM | 2 | U100，U200 |
| 103180－1 | 日UMPER，0．4＂TALL ELK W／ADH | 3 | 7 |
| 103191－1 | 0.47 UF Z5U $121020 \% 50 \mathrm{~V}$ | 2 | C144，С244 |
| 103192－1 | NPN 30QV 508MA 50MHZ 50T－223 | 4 | Q107．0110．0207．0210 |
| 103193－1 | PNP 300V 508MA 50MHZ 50T－223 | 4 | 0105．0120．0205．0220 |
| 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 54 | R1．R7，R152，R153，R154．R155． |
|  |  |  | R156．R157，R159，R167，R168， |
|  |  |  | R16S，R170，R171．R172．R252， |
|  |  |  | R253，R254，R255，R255，R257． |
|  |  |  | R259，R267．R268，R269，R270， |
|  |  |  | R271．R272，R300．R301，R302． |
|  |  |  | R303．R304，R305，R306，R307， |
|  |  |  | R308，R309，R310，R311，R312． |
|  |  |  | R400，R401，R482，R403，R404， |
|  |  |  | R405，R406，R407，R408，R409， |
|  |  |  | R410，R411．R412 |
| 10321日－1 | 2．2UF 150V RADIAL T／R | 4 | C136．C137．C236．C237 |
| 103331－N050R | WIRE， 16 BLK／WHT TAB $\times 5 \times$ T | 1 | WP2 |
| 103435－7069日 | SCREW．6－32 $\times .5$ TORX PNHD SEM | 2 | HW27，HW2日 |
| 125106－1 | MACSD \＆AMP 40日V TRIAC | 2 | Q131． 0231 |
| 125242－1 | CAP，．625ID $\times 1{ }^{\text {＂}}$ VINYL | 1 | 3 |
| 1254日2－1 | ADHESIVE LOCTITE 3 Q4 DUTPUT | 0 | 5 |
| 1254日3－1 | ACTIVATOA LOCTITE＂OUTPUT＂ | $\square$ | 白 |
| 125508－1 | 10UF 5QVDC ELECTROLYTIC SMD | 2 | C3， 530 |
| 128317－1 | REL．30A 24V SPST PCB W／FAST | 2 | K100，K200 |
| 128日25－1 | SILICDNE，CLEAR $30 Z$ SYRINGE | $\square$ | 4 |
| 126929－1 | 1／4＊TRS／XLR COMBO PCE VERT | 2 | 1500． 1600 |
| 127442－1 | PREP，CE HI－V WIRE | 1 | WP6 |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C130 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | H 日＊ |
| C131 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | H 7＊ |
| C132 | A11427－104K2 | 0．1 MF 50V 10\％0805 | F 7＊ |
| C133 | A11427－104K2 | 0．1 MF 50V 10\％ 0805 | F 日＊$^{*}$ |
| C134 | A11369－102」2 | 0.001 LF 50 5 \％NPO MLC 0805 T／ | M 7 ＊ |
| C135 | 10243日－101K2 | 100PF 200V 10\％NPD 0日05 | N 7＊ |
| C136 | 103210－1 | 2． 2 LF 160V RADIAL T／R | 17 |
| C137 | 183210－1 | 2．2UF 150V RADIAL T／A | 17 |
| C13日 | 18243日－820K2 | 82PF 200V 10\％NPO 0805 | M 7＊ |
| C139 | A11427－104K2 | Q． 1 MF 5日V 10\％B日Q5 | G 7＊ |
| C140 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | L 9 |
| C141 | A11369－471K2 | 470アF 50V 10\％NPQ ロ日®5 T／R | N 10 |
| C142 | A11359－330 J2 | 33PF 58V 5\％NPO MLC 0805 | M 10 |
| C143 | A11427－103K5 | 0． $\mathrm{Q1MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | M 9＊ |
| C144 | 103191－1 | 0.47 UF Z5U $121020 \% 50 \mathrm{~V}$ | G 7＊ |
| C201 | 102455－1 | 47UF 50V 20\％RADIAL T／R | 」 9 |
| C202 | C 6802－0 | 47 MF 50 V AX CERM |  |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 10243日－101k2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0805 | 」 9＊ |
| C205 | C1020日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| C206 | $102438-560 \mathrm{~K} 2$ | 56PF 200V 10\％NPD 0805 | 」 9＊ |
| C207 | A11369－270K2 | 27PF 50V 10\％NPD 0805 T／R | 」 9＊ |
| C208 | 10243日－820K2 | 日2PF 20QV 10\％NPO 0日05 | J 10＊ |
| C209 | A11427－103K2 | D． 01 MF 50 V 10\％CHIP 0日05 | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | K 7＊ |
| C211 | A11427－183K2 | $0.81 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | K 7＊ |
| C212 | A11427－123K2 | $0.812 \mathrm{MF} 50 \mathrm{~V} 18 \%$ CHIP | L 8＊ |
| C213 | 1024E8－1 | 47UF 10V 20\％NP RAD T／R | K 8 |
| C214 | 102468－1 | 47UF 10V 20\％NP RAD T／R | K 8 |
| C215 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | K 8＊ |
| C216 | A11427－472K2 | 470日PF 50V 10\％$\times 7 \mathrm{R}$ 㫙05 | J 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 8日05 | D 1＊ |
| C21日 | A10434－184JD | 0.1 MF 250V 5\％MTL POLY | 11 |
| C219 | A1 1427－472K2 | 470日PF 50V 10\％X7R 日805 | E 1＊ |
| C220 | 10243日－101K2 | 100PF 200V 10\％NPO 0日05 | D 2＊ |
| C221 | C10196－1 | 2． 2 MF 50 V 20\％RAD T／R | E 8 |
| C222 | A11427－104K2 | 0.1 MF 50V 10\％0805 | E 8＊ |
| C 223 | C 9157－6 | 10 ULF $16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2．2MF 50V 20\％RAD T／R | 」 9 |
| C．226 | A11427－104K2 | 0． 1 MF 50 V 10\％0日05 | K 10＊ |
| C227 | A11427－104K2 | D． 1 MF 50V 10\％0805 | K ${ }^{*}$ |
| C228 | A11427－104K2 | 0.1 MF 50V 10\％ 0805 | J 10＊ |
| c229 | A11427－104K2 | 0．1 MF 50V 10\％日e日5 | J 9＊ |
| C230 | A11427－104K2 | 0.1 MF 50V 10\％0005 | E 8＊ |
| C231 | A11427－104K2 | D． 1 MF 50 V 10\％0日05 | E 7＊ |
| C232 | A11427－104K2 | 0． 1 MF 50V $10 \%$ 0日05 | E 7＊ |
| C233 | A11427－104K2 | D． 1 MF 58V 10\％8005 | D 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| C234 | A11359－102」2 | D．DQ1 1 F 50V 5\％NPO MLC 0805 T／ | 」 7＊ |
| C235 | 10243日－101K2 | 18DPF 200V 10\％NPO D日05 | J 2＊ |
| C236 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C237 | 103210－1 | 2．2UF 150V RADIAL T／R | I 1 |
| C238 | 102438－820K2 | 日2PF 200V 10\％NPO 0805 | J 7＊ |
| C239 | A11427－104K2 | 0.1 MF 50V 10\％0805 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A11369－471K2 | 470PF 50V 10\％NPQ 0日®5 T／R | L 10 |
| C242 | A11369－330J2 | 33PF 50V 5\％NPO MLC 0805 | K 10 |
| C243 | A11427－103K5 | D． 01 MF 50 V 5\％$\times 7 \mathrm{R} 1208$ | K 9＊ |
| C244 | 103151－1 | 0.47 LF Z5U $121020 \% 50 \mathrm{~V}$ | E 7＊ |
| C500 | A11369－120K2 | 12PF 50V 10\％NPG Q日05 T／R | A 2 |
| C501 | A11359－120K2 | 1 2PF 56V 10\％NPQ 0805 T／R | A 2 |
| C502 | A11389－120K2 | 12PF 50V 10\％NPO 0805 T／R | 而 2 |
| C503 | 102467－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C504 | $10243 \mathrm{~B}-580 \mathrm{~K} 2$ | 56PF 200V 10\％NPO 8B05 | A 2 |
| C505 | A11427－104K2 | B． 1 MF 50V 10\％0005 | A 2 |
| C506 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | A 2 |
| C509 |  | OPEN | 日 2 |
| C600 | A1 1359－120K2 | 12PF 50V 10\％NPO D日®s T／R | A 2 |
| C601 | A11369－120K2 | 12PF 50V 10\％NPD 0805 T／A | A 1 |
| C602 | A11369－120K2 | 1 2PF 50V 10\％NPO 0805 T／R | A 2 |
| C603 | 102487－1 | 22MF 25V 20\％RAD T／R | 日 2 |
| C604 | 10243日－560K2 | 56PF 200V 10\％NPO 0日®S | 目 2 |
| C605 | A11427－104K2 | D． 1 MF 50V 10\％ 0805 | A 1 |
| c606 | A1 1371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \%$ 2日05 T／R | C 3 |
| C607 | A11371－1501 | 15 OHM ．1 W 5\％0805 T／R | C 3 |
| C608 | A11371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \%$ 0日05 T／R | B 1 |
| C609 |  | OPEN | 日 2 |
| D1 | C 2851－1 | $1 \mathrm{N4OQ} 4$ SILICON RECT． | G 9 |
| D2 | C．2851－1 | 1 N 4004 SILICON RECT． | G 10 |
| D3 | C 2日51－1 | 1 N40日4 SILICON RECT． | $G 10$ |
| D4 | C 2日5i－1 | 1 N 4004 SILICON RECT． | G 10 |
| D6 | C 2日51－1 | 1N4004 SILICON RECT． | 」 B |
| D7 | C 2日51－1 | 1 N4004 SILICON RECT． | 」 8 |
| D日 | C 3549－0 | DIODE ZENER．10V． 1 N5240B | J 8 |
| D9 | C 9283－0 | DIODE，1N914／1N414E SDT－23 5MT | I 9＊ |
| D18 | C 2851－1 | 1N4ED4 SILICON RECT． | I 10 |
| D13 | C 9283－0 | DIDDE，1NS14／1N414日 SOT－23 SMT | I 9＊ |
| D101 | C 9283－a | DIODE，1NG14／1N414日 SOT－23 SMT | N 9＊ |
| D102 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | N 9＊ |
| D103 | ᄃ 9283－0 | DIODE，1N914／1N414日 SDT－23 SMT | L 9＊ |
| D184 | C 92日3－0 | DIDDE，1N914／1N414日 SOT－23 SMT | M 9＊ |
| D185 | C 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | L S＊ |
| D186 | ᄃ 9283－0 | DIDDE， 1 N914／1N414日 SOT－23 SMT | N 8＊ |
| D107 | C 9283－0 | DIODE，1N914／1N414B SOT－23 SMT | N 8＊ |
| D10日 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |



PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| D22日 | C 9283－0 | DIQDE．1N914／1N4148 SOT－23 SMT | E 7＊ |
| D229 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | F $\mathrm{E}^{*}$ |
| D230 | C 92日3－0 | DIDDE，1NG14／1N414B SOT－23 SMT | K 9 |
| E1 | 102476－1 | LED．SMT R／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED，SMT R／A GREEN | $\downarrow 1$ |
| E102 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 102477－1 | LED．SMT R／A RED | M 1 |
| E201 | 102476－1 | LED．SMT R／A GREEN |  |
| E202 | 102477－1 | LED．SMT R／A RED |  |
| HS 1 | 102575－3 | HS ASM，T2 NON－ISOLATED CH1． | 16 |
| HS 2 | 102575－3 | HS ASM．T2 NON－ISOLATED CH2， | L 3 |
| H53 | 102573－3 | HS ASM．T2 ISOLATED CH1， | G 6 |
| H54 | 102574－3 | HS ASM．T2 ISOLATED CH2． | G 3 |
| HW1 | 10257日－1 | SPACER，6X． 125 AL ELX ANODIZED | A 4 |
| HW2 | 102578－1 | SPACER， $6 \times 125 \mathrm{AL}$ BLK ANODIZED | A 4 |
| HW3 | 10257日－1 | SPACER，EX． 125 AL 日LK ANODIZED | A 4 |
| HW4 | 102578－1 | SPACEA． $6 \times 125$ AL 日LK ANODIZED | A 4 |
| HW5 | 102578－1 | SPACER． $6 \times 125 \mathrm{AL}$ 日LX ANODIZED | A 4 |
| HWE | 102578－1 | SPACER， $6 \times 125$ AL 日LK ANODIZED | Q 4 |
| HW7 | 10257日－1 | SPACER，6X． 125 AL 日LK ANODIZED | 日 4 |
| HWB | 10257日－1 | SPACER， $6 \times .125 \mathrm{AL}$ 日LK ANODIZED | 目 4 |
| HWG | A10日20－7 | 6－32 $\times .625$ PCB EAPTIVE STUD | D 5 |
| HW10 | A10020－7 | 6－32 $\times .625$ PCE CAPTIVE STUD | 16 |
| HWi 1 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | I 3 |
| HWI 3 | A10日20－7 | $6-32 \times .625$ PC日 CAPTIVE STUD | 」 5 |
| HW1 4 | A10020－7 | $6-32 \times .625$ PCE CAPTIVE STUD | N 6 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | J 2 |
| HW16 | A10020－7 | $6-32 \times$ ． 625 PC日 CAPTIVE STUD | N 3 |
| HW1 7 | A1105E－1 | 6－32 HEX NUT W／日ELLEVILLE | A 4 |
| HW1日 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW19 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW20 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW2 1 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | A 4 |
| HW22 | A11056－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW23 | A1105E－1 | 6－32 HEX NUT W／BELLEVILLE | B 4 |
| HW2 4 | A1 1056－1 | 6－32 HEX NUT W／BELLEVILL．E | B 4 |
| HW25 | 102579－1 | STAND． $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW27 | 103435－70608 | SCREW，6－32 X． 5 TORX PNHD SEM | A 4 |
| HW28 | 103435－70608 | SCREW，6－32 X．5 TORX PNHD SEM | A 4 |
| J2 | 101573－1 | HDA 4 POS ． 1 CTR MTA SHRD | G 10 |
| J3 | 102472－3 | HDR， 1 BPOS .180 CTR SGL ROW | M B |
| J 4 | 101571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| J5 | 101993－1 | JACK，EP4 COND MODULAR R／A |  |
| J100 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| J 200 | 102473－1 | SPEAKDN， 4 POLE PCB HDRZ | F 10 |
|  |  |  |  |
|  |  |  |  |

For Reference Use Only

YHESE DRAWINGS AND SPELTFICATTONS ARE THE PRORERYO CROWN INTENATIONA：INE AND
OF APPABATUS OA DEVICES WITHOUT PERMISSION．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESERIPTION | MAP LOC． |
| 」 500 | 126929－1 | 1／4＂TRS／XLR COMED PCE VERT | B 3 |
| 」 502 | 182471－2 | HDR，12POS 2．5MM RT ANG KEYED | C 1 |
| J609 | 126929－1 | 1／4＂TRS／XLR COMED PCE VERT | B 1 |
| K100 | 125317－1 | REL．30A 24 V SPST PCB W／FASTON | 69 |
| K200 | 126317－1 | REL．38A 24 V SPST PCB W／FASTON | E 9 |
| L100 | ᄃ 3510－2 | CHOKE，470UH 10\％AXIAL | N 7 |
| L101 | C 3510－2 | CHOKE，470UH 10\％AXIAL | 17 |
| L102 | 102470－1 | INDUCTOR，2．75UH 11A RADIAL | H 8 |
| L200 | C 3510－2 | CHOKE，470UH 18\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOKE．470UH 18\％AXIAL | D 1 |
| L202 | 182470－1 | INDUCTOR，2．75UH 11A RADIAL | I 1 |
| 01 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| 02 | 102479－1 | PWR MJD112 NPN DARLINGTON 1日BV | 110 |
| Q3 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | 110 |
| Q100 | C 744日－1 | MMBT3904 CHIP NPN | M ${ }^{*}$ |
| 0101 | C 744日－1 | MMBT3904 CHIP NPN | M $3^{*}$ |
| 0102 | C 9931－4 | MMBT50日7LT1 PNP $\times 5$ ISTOR SOT－23 | N $3^{*}$ |
| Q103 | 1024日3－1 | PNP 300V 500MA SOT－23 | L S＊$^{*}$ |
| Q104 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 6 |
| Q105 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | M 7＊ |
| Q107 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | M ${ }^{*}$ |
| 0108 | 102481－1 | NPN 25V LDW NOISE SOT－23 | N 8＊ |
| 0109 | C 9931－4 | MM日T50日7LT1 PNP XSISTOR SOT－23 | N 8＊ |
| Q118 | 103192－1 | NPN 30日V 50®MA 50MHZ SOT－223 | N ${ }^{\text {＊＊}}$ |
| Q111 | C 9931－4 | MMET50日7LT1 PNP XSISTOR SOT－27 | N 7 ＊ |
| Q112 | 103200－1 | NPN 230V 15A 30MHZ 25C5242 | N 7 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0120 | 103193－1 | PNP 300V 506MA 50MHZ SOT－223 | I 7＊ |
| Q121 | 103200－1 | NPN 230V 15A 30MHZ $25 C 5242$ | 17 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Q129 | C 744日－1 | MMBT3904 CHIP NPN | 6 9＊ |
| 0131 | 125106－1 | MAC9D 8 AMP 400V TRIAC | F 9 |
| Q132 | 10247日－1 | TRIAC DRIVER S日S EV THRESH | F 9 |
| Q133 | 1024日日－1 | FET，N－CH 25V 50MA SOT－23 | M ${ }^{*}$ |
| Q20a | C 744日－1 | MMBT3904 CHIP NPN | K 9＊ |
| 0201 | C 744日－1 | MMET3904 CHIP NPN | K 9＊ |
| प202 | C 9931－4 | MMAT50日7LT1 PNP XSISTOR SOT－23 | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| 0203 | 1024日3－1 | PNP 30日V 500MA SOT－23 | J 9＊ |
| 0204 | C 3252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| 0205 | 103193－1 | FNP 300V 500MA 50MHZ SOT－223 | 」 7＊ |
| Q207 | 103192－1 | NPN 308V 500MA 50MHZ 50T－223 | K 7＊ |
| 0208 | 1024日1－1 | NPN 25V LOW NQISE SOT－23 | K 7＊ |
| 0209 | C 3931－4 | MMBT5087LT1 PNP $\times 5$ ISTOA SOT－23 | K 日＊ |
| 0210 | 103192－1 | NPN 300V 50QMA 50MHZ SOT－223 | 」 $2^{*}$ |
| 0211 | C 9931－4 | MMBT50日7LTt PNP XSISTOR SOT－23 | 」 2＊ |
| Q212 | 103200－1 | NPN 230V 15A 30MHZ 2SC5242 | 」 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0220 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | D 2＊ |
| 0221 | 103200－1 | NPN 230V 15A 30MHZ $25 C 5242$ |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0229 | c 7448－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 125105－1 | MAC9D 日 AMP 400V TRIAC | E 9 |
| $\square 232$ | 10247日－1 | TRIAC DRIVER S日S 8 V THRESH | F 日 |
| 0233 | 1024日0－1 | FET．N－CH 25V 50MA SOT－23 | 」 9＊ |
| R1 | 183199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 $8^{*}$ |
| R2 | A11371－22．5 | 2．2K 1W 5\％CHIP 2512 | 」 8＊ |
| R3 | A11371－3341 | 3 30 K 0．10W 5\％CHIP 0日05 | I 8＊ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊＊ |
| R5 | A1135日－69811 | 6．9日K OHM 0．10W 1\％CHIP 0日05 | D $\mathrm{B}^{*}$ |
| R6 | A1136日－93111 | 9．31K 0．1W 1\％EHIP 0e05 | D $\mathrm{B}^{*}$ |
| R7 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | 」 8 ＊ |
| R日 | A1；371－1022 | $1 \mathrm{~K} 0.125 \mathrm{~W} 5 \%$ CHIP 1206 | N 10＊ |
| R 9 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | H 9＊ |
| R10 | A11368－20023 | 20K 0．25W 1\％CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330K ロ．10W 5\％EHIP 0805 | $1{ }^{\text {\％}}$ |
| R12 | A11368－68121 | 68．1K $0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ | I 9＊ |
| R13 | A 1 1371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R14 | A11371－0R21 | 0.2 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R15 | A11371－0R21 | 0．2 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A11368－82511 | 8．25K 0．1 W $1 \%$ CHIP 0805 | F 10＊ |
| R18 | A11368－71511 | 7.15 K OHM D．10W 1\％CHIP 0日05 | D $\mathrm{B}^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1＊ |
| R20 | A11368－57621 | 57．6K 0．10W 1\％CHIP 0日0s | I 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| R21 | A1138日－12121 | 12.1 K OHM 0．10W 1\％CHIP 0日05 | J 9＊ |
| R22 | A1135日－39231 | 392K 0．10W 1\％CHIP 0日05 | I 9＊ |
| R23 | A1138日－39231 | 392K D．10W 1\％CHIP 0805 | I 9＊ |
| R24 | A1136日－57621 | 57.6 K Q．10W 1\％CHIP 0805 | I 9＊ |
| R25 | A1135日－10031 | 100K $0.1 \mathrm{~W} 1 \%$ CHIP $0 日 85$ | N 9＊ |
| R26 | A11371－3341 | $330 \mathrm{~K} 0.10 \mathrm{~W} 5 \%$ CHIP 0805 | A \％$^{*}$ |
| R27 | A11368－20021 | 20K 1／10W 1\％CHIP 0日05 | L S＊$^{*}$ |
| R2日 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L \％$^{*}$ |
| R29 |  | OPEN | 日 2 |
| R30 | A11368－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0885 | $18^{*}$ |
| R31 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | 」 $8^{*}$ |
| R32 | A11371－5615 | 560 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | 」 8 |
| R33 | A11371－8R21 | 0．2 OHM 0．10W 5\％CHIP 0BD5 | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ 2512 T／月 | 」 B |
| 9100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ LHIP 0805 | M 10＊ |
| R102 | A1136日－39231 | 392K 0．10W 1\％CHIP 0805 | N 9＊ |
| R103 | A1136日－49901 | 499 OHM 0．10W 1\％CHIP 0805 | N 9＊ |
| R104 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | N 9＊ |
| R105 | A11371－6日14 | 6日日 OHM 0．50W 5\％CHIP | 」 1＊ |
| R105 | A1136日－10011 | 1K 0．10W 1\％CHIP 0日05 | M ${ }^{*}$ |
| R187 | A11368－10021 | 10K 1／18W 1\％CHIP 0805 | L 18＊ |
| R108 | A1136日－10021 | 10K 1／18W 1\％CHIP D805 | L 10＊ |
| R149 | A1136日－19122 | 19．1K $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | M $9^{*}$ |
| R110 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | L 9＊ |
| R111 | A1 136日－10821 | 10K 1／10W 1\％CHIP 0805 | L 9＊ |
| R112 | A10265－19121 | 19.1 K O．25W $1 \% \mathrm{MF}$ | ᄂ 9 |
| R113 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | L． 10 ＊ |
| F114 | A1136日－82511 | B． 25 K 0．1W 1\％CHIP 0805 | ᄂ 10＊ |
| H1 15 | A1136日－6日121 | 6日．1K 0．10W 1\％CHIP | L 10＊ |
| R116 | A1136日－22601 | 226 OHM 0．18W 1\％CHIP OBQ5 | M 9＊ |
| R117 | A11371－3341 | 330 K 0.10 W 5 CHIP 0805 | M 9＊ |
| R118 | A1136日－10221 | 10．2K 0．10W 1\％CHIP 0日®5 | M 10 |
| R119 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | M 9＊$^{*}$ |
| R120 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0805 | M 9＊ |
| R121 | A1136日－10021 | 10X 1／18W $1 \%$ CHIP 0805 | M 10 |
| R122 | A1135日－15日31 | 15日K 0．10W 1\％CHIP 0日05 | N 9＊ |
| R123 | A11358－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W}: \% \mathrm{CHIP} 0805$ | M $9^{*}$ |
| R124 | A11368－15日3 | 15日K 0．10W 1\％EHIP 0日05 | M 9＊ |
| R125 | A11368－1803） | 100K 0．1W $1 \%$ CHIP 0805 | N 9＊ |
| R126 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0885 | M 9＊ |
| R127 | A11371－6821 | 6．日K 0．10W 5\％CHIP 0805 | N 9＊ |
| R128 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | 」 1＊ |
| R129 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | －8＊ |
| H131 |  | OPEN | 口 日＊ |
| R132 | A11371－2223 | 2．2K 0．25W 5\％EHIP 1210 | H 6＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％EHIP | H E＊ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K 0．25W 5\％CHIP | M 7＊ |
| R136 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | M 7 ＊ |
| R137 | A1 1368－15002 | 150 OHM 0．125W 1\％CHIP | N 8＊ |
| R138 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| R139 | A1136日－10793 | 107 OHM 0．25W $1 \%$ CHIP | N 8＊ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N $8^{*}$ |
| R141 | A11371－8211 | 日20 OHM 0．18W 5\％CHIP | 口 8＊ |
| A142 | A11371－4724 | 4．7K OHM 日．50W 5\％CHIP 2010 | 0 8＊ |
| R143 | A11371－3333 | 33K 日．25W 5\％CHIP 1210 | N 8＊＊ |
| R144 | A11371－1213 | 120 DHM 0．25W 5\％CHIP | N 8＊ |
| R145 | A11368－75R03 | 75 OHM 0．25W $1 \%$ CHIP 1210 | N 8＊ |
| R146 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R147 | A11371－1811 | 100 OHM 0．10W 5\％CHIP 0日05 | N 7＊ |
| R14日 | A11371－1811 | 1日0 DHM 0．10W 5\％CHIP | M 7＊ |
| R150 | A11371－5R63 | 5．6 0．25W 5\％CHIP | N 6＊ |
| R152 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／R | K E＊ |
| R153 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R154 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | L 6＊ |
| Ri55 | 103199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 5＊ |
| R156 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | M 6＊ |
| R157 | 103199－1 | 0．4 OHM IW 5\％2512 T／A | N 5＊ |
| R15日 | A10266－2R74 | 2．7 OHM 2W 5\％CF | I B |
| R159 | 103199－1 | Q． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 6＊ |
| R160 | A11371－1501 | 15 OHM 0．10W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM D．10W 5\％LHIP 0805 | H ${ }^{\text {＊}}$ |
| R152 | A11371－4701 | 47 OHM 0．10W 5\％CHIP | H 7＊ |
| R163 | A11371－1日11 | 1日日 OHM＠．10W 5\％CHIP | I 7＊ |
| R165 | A11371－5R63 | 5．6 0．25W 5\％CHIP | I 5＊ |
| R167 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | E 6＊ |
| R158 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R169 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R170 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | G 6＊ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G ${ }^{*}$ |
| R172 | 103199－1 | 0． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 6＊ |
| R174 | A11368－60432 | E04K OHM 0．125W 1\％CHIP 120 E | G 8＊ |
| R175 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | G 8＊ |
| R176 | A11368－10021 | 10X 1／18W 1\％CHIP 0日05 | 6 $8^{*}$ |
| R177 | A11368－10021 | 10X 1／10W 1\％CHIP 0日05 | H 8＊ |
| R178 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ LHIP 0日05 | N S＊ |
| R179 | A1136日－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0日05 | F 7＊ |
| R180 | A1136日－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP D日05 | G 8＊ |
| F181 | A11371－6814 | 680 OHM 0．50W 5\％CHIP | 」 $1^{*}$ |
| R182 | A113E日－10021 | 10X 1／10W $1 \%$ CHIP 8805 | F $8^{*}$ |
| R183 | A1136日－10031 | 100K 0．1W 1\％CHIP 0805 | F $B^{*}$ |
| R184 | A1196日－20023 | 20K 0．25W $1 \%$ CHIP 1210 | F $9^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only

CROWN INTERNATIONAL INC．

## 1718 WEST MISHAWAKA ROAD ELKHABT．INDIANA 48517 PHONE（219）294－8000



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R185 | A1138日－10021 | 10K 1／10W 1\％CHIP 0805 | G $\mathrm{日}^{*}$ |
| R1处 | A1138日－10031 | 100K $0.1 \mathrm{~W} 1 \%$ CHIP 0805 | N 10＊ |
| R187 | A1138日－15931 | 159K 日．10W 1\％LHIP 0日05 | M 10＊ |
|  | A1138日－15831 | 15日K 0．10W 1\％EHIP 0805 | N 10＊ |
| R189 | A1138日－10031 | 100K 0．1W 1\％CHIP 0805 | M 10＊ |
| R190 | A1 3 36日－57621 | 57．6K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N E＊ |
| F191 | A11368－22601 | 226 OHM D．10W 1\％CHIP gen | N 6＊ |
| R192 | A11368－68432 | 604K OHM 0．125W 1\％CHIP 1206 | L 9＊ |
| R193 | A11368－10021 | 10K 1／18W 1\％CHIP 0日05 | N 9＊ |
| R194 | A11371－8201 | 日2 OHM 日．10W 5\％CHIP | M 7＊ |
| A195 | A11371－8211 | 日20 OHM 0．18W 5\％CHIP | M 7＊ |
| R196 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | M 9＊ |
| R197 | A11368－61911 | 6．19K 0．10W 1\％CHIP 0805 | M 10 |
| R198 |  | OPEN | M 10 |
| R199 | A11371－0R02 | D．O OHM JUMPER CHIP 120 E | N $\mathrm{B}^{*}$ |
| R200 | 102595－3 | POT，5K LIN 21 DNT 12MM HDRIZ | N 1 |
| R201 | A11368－10011 | 1K $0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R202 | A11368－39231 | 392K 0．10w 1\％CHIP 0日25 | ᄂ 9＊ |
| A203 | A1136日－49901 | 499 OHM D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| R204 | A1136日－10921 | 10K 1／10W 1\％CHIP 0日05 | L 9＊＊ |
| R205 | A11371－6814 | 580 OHM 0．50W 5\％CHIP | M 1 ＊ |
| R206 | A11368－10011 | 1K 日．10W 1\％CHIP 0805 | 」 9＊ |
| R209 | A11368－19122 | 19.1 K ®．125W $1 \%$ CHIP 1206 | K $\mathbf{S *}^{*}$ |
| R210 | A11368－18011 | 1K Q．10W 1\％CHIP 0805 | J 9＊ |
| R211 | A1136日－10021 | 10K 1／18W 1\％CHIP ge®5 | J 9＊ |
| R212 | A10265－19121 | 19．1K D．25W 1\％MF | 19 |
| R213 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日®5 | 」10＊ |
| R214 | A11388－82511 | 8．25K 0．1W 1\％CHIP 0805 | 」10＊ |
| R215 | A11368－68121 | B日． $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP | J 10＊ |
| R216 | A11368－22601 | 226 DHM D． $10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 0日®5 | ¢ $9^{*}$ |
| R217 | A11371－3341 | $330 K$ 日． $10 \% 5 \%$ CHIP 0B05 | J $9^{*}$ |
| R218 | A1136日－10221 | 10．2K 0．10W $1 \%$ CHIP B日Q5 | $\times 10$ |
| R219 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | 」 ${ }^{*}$ |
| R220 | A1136日－90921 | 90．9K $0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | K G＊ |
| R221 | A11368－10021 | 10K 1／10W 1\％CHIP gees | K 10 |
| R222 | A1136日－15日31 | 15日K 0．10W 1\％CHIP 0805 | K 9＊ |
| R223 | A1135日－10031 | 100K D．1W 1\％CHIP 0805 | K $9^{*}$ |
| R224 | A11368－15日31 | 15日K 0．10W 1\％CHIP 0805 | K $3^{*}$ |
| R225 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日85 | L $\mathrm{S}^{*}$ |
| R226 | A1136日－49921 | 49．9K 0．1 W $1 \%$ CHIP 0805 | K $9^{*}$ |
| R227 | A11371－6日21 | G．aK 0．10W 5\％LHIP 0805 | K $\mathrm{S}^{*}$ |
| A22日 | A11371－6814 | 689 OHM 0．50W 5\％CHIP | M 1＊＊ |
| R229 | A11371－8211 | 日20 OHM $0.10 \mathrm{~W} 5 \%$ CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7 ＊ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％LHIP 1210 | H $3^{*}$ |
| A233 | A19371－7511 | 750 OHM 0．10W 5\％CHIP | H 3 ＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

THESE DAN WINGS AND SPECIFICATIONS ARE THE

OF APPAATUS OR DEVICES WITHOUT PEGMISSION．


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTIUN | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R234 | C10E13－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3．9K D． $25 \mathrm{~W} 5 \%$ CHIP | 」 7＊ |
| R236 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | 」 7 ＊ |
| R237 | A1 1 368－15002 | 150 DHM 0．125W 1\％［HIP | K $8^{*}$ |
| R23日 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| P239 | A11368－10703 | 107 OHM 0．25W 1\％CHIP | K 8＊ |
| F240 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | L 8＊＊ |
| F242 | A11371－4724 | 4．7K OHM 0．50W 5\％CHIP 2010 | L 7＊ |
| R243 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | K $\mathrm{B}^{*}$ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K $日^{*}$ |
| R245 | A1136日－75R03 | 75 OHM 0．25W 1\％CHIP 1210 | K $8^{*}$ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | 」 ${ }^{*}$ |
| R247 | A11371－1011 | 100 OHM 0．19W 5\％CHIP 0日05 | J 2＊ |
| R248 | A11371－1日11 | 188 OHM 0．10W 5\％CHIP | K 2＊ |
| R250 | A11371－5R63 | 5． 6 0．25W 5\％CHIP | 」 ${ }^{\text {＊}}$ |
| R252 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 4＊ |
| R253 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R254 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | L 4＊ |
| R255 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 3＊ |
| R256 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 4＊ |
| R257 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R260 | A11371－1501 | 15 DHM 日．10W 5\％CHIP | D $1^{*}$ |
| R261 | A11371－1331 | 13X OHM 0．10W 5\％CHIP 0日0 5 | E 2＊ |
| R262 | A11371－4701 | 47 OHM D．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1811 | 1日0 OHM 0．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5RE3 | $5.60 .25 W 5 \%$ CHIP | E 2＊ |
| R267 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | E 4 ＊ |
| R268 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | F 3＊ |
| R269 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | F 4＊ |
| R270 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 3＊ |
| R271 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | H $4 *$ |
| R272 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | H 3 ＊ |
| R274 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1206 | E 日＊ |
| R275 | A1 136日－51111 | 5.11 K OHM 0．10W 1\％EHIP 0805 | E 日＊ |
| R276 | A11368－10021 | 10X 1／10W 1\％CHIP 0日05 | E $8^{*}$ |
| R277 | A11368－10021 | 10X 1／10W 1\％CHIP 0日05 | E 日＊ |
| R27日 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0805 | L 9＊ |
| R279 | A11368－10031 | 100K 0．1W 1\％CHIP 0e05 | E 7＊ |
| R2日可 | A11388－39231 | 392K 0．10W 1\％CHIP 0905 | E $日^{*}$ |
| R2日 1 | A11371－6814 | 6日0 0HM 0．50W 5\％CHIP | M 1＊ |
| R2日2 | A11368－10821 | 10K 1／1日W 1\％CHIP 0805 | D $\mathrm{B}^{*}$ |
| R2日3 | A11368－10831 | 100K 0．1W 1\％CHIP 0日05 | E 日＊ |
| R2日 4 | A11368－20023 | 20K D．25W 1\％CHIP 1210 | F 9＊ |
| R2日 5 | A1138日－10621 | 10K 1／10W 1\％CHIP 0日05 | F $\mathrm{O}^{*}$ |
| R2日6 | A1136日－10831 | 100K 0．1W 1\％LHIP 0805 | L 10＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R297 | A11368－1583 | 158K 0．10W 1\％LHIP 0805 | K 10＊ |
| R2日8 | A11368－15831 | 15日K 0．18W 1\％CHIP 0805 | K 10＊ |
| R289 | A11358－18031 | 10ロK ロ．1W $1 \%$ CHIP 0805 | K 18＊ |
| R290 | A11368－57621 | 57．6K D．30W 1\％CHIP 0日85 | N 3＊ |
| R29 1 | A1136日－22日61 | 226 OHM 0．10W 1\％CHIP 0日Q | N 3＊ |
| R292 | A1136日－60432 | 604 K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 120 E | 」 $9^{*}$ |
| R293 | A1136日－10021 | 10K 1／10W 1\％CHIP D805 | K 9＊ |
| R294 | A11371－8201 | 82 OHM 0．10W 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | 日20 DHM D．10W 5\％CHIP | J 7＊ |
| R296 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | K 9＊ |
| R297 | A11368－61911 | 6．19K 0．10W 1\％CHIP 0805 | K 10 |
| R29日 |  | OPEN | K 10 |
| R299 | A11371－0R82 | 0.0 OHM J 0 MPER CHIP 1206 | K 日＊ |
| R300 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 6＊ |
| R301 | 103199－1 | 0． 4 OHM 1W 5\％2512 T／R | J 6＊ |
| R302 | 103199－1 | $0.40 \mathrm{OMM} 1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | K 5＊ |
| R303 | 103199－1 | 0.4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | L E＊ |
| R304 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 5＊ |
| R305 | 103199－1 | 0． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
| R306 | 103199－1 | D． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 5＊ |
| R307 | 103159－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E $6^{*}$ |
| R308 | 103199－1 | 0.4 OHM 1W $5 \% 2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| R309 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R310 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R31 1 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G $6^{*}$ |
| R312 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／Q | I 6＊ |
| R313 | A1136日－10021 | 10K 1／10W 1\％EHIP E日Q | G 7＊ |
| R314 | A11371－3341 | 330 K 0．10W 5\％CHIP 0805 | $67 *$ |
| R315 | A11388－51111 | 5.11 K DHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | H 7＊ |
| R316 | A11368－10011 | 1 K ロ．10W 1\％CHIP 0805 | M 18＊ |
| R317 | A11371－3934 | 33 K OHM 0．50W 5\％EHIP 1210 | N |
| R318 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1813 | 100 OHM ．25W 5\％ 1210 SMT T／R | L 9 |
| R323 | A11371－0R02 | 0．0 OHM JUMPER EHIP 1206 | G 8 |
| R400 | 103199－1 | 0.4 OHM iW 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 3＊ |
| R401 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 」 4＊ |
| R402 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | K 3＊ |
| R403 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | L 4＊ |
| R404 | 103199－1 | 0．4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 3＊ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 4＊ |
| R406 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| F407 | 103199－1 | 0.4 ロHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R408 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R409 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | $64^{*}$ |
| R410 | 103193－1 | D． 4 OHM 1W5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 3＊ |
| R411 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | H 4＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R412 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | 1 3＊ |
| R413 | A11368－10021 | 10K 1／10W 1\％CHIP 2805 | E 7＊ |
| R414 | A11371－3341 | 330K 0．10W 5\％CHIP D日E5 | E 7＊ |
| R415 | A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP D日0S | E 7＊ |
| R416 | A1136日－10011 | 1 K ®． $10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R417 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | K 7 |
| R41日 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | K 日 |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R421 | A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | 」 9 |
| R423 | A11371－0RE2 | $0 . \square$ OHM JUMPER LHIP 1206 | F 8 |
| R500 | A11368－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | A 3 |
| R501 | A1135日－10021 | 10K 1／1可 1\％CHIP 0日05 | A 2 |
| R502 | A1 136日－10221 | 10K 1／10W 1\％CHIP D805 | B 2 |
| R503 | A1136日－10221 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | B 2 |
| R584 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R506 | A1936日－1日021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R50日 |  | OPEN | C 2 |
| R60］ | A11368－10221 | 10K 1／10W 1\％CHIP 0日05 | A 1 |
| R601 | A1136日－10221 | 10K 1／10W $1 \%$ CHIP 0日05 | A 1 |
| R602 | A1 136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | A 2 |
| R603 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | A 2 |
| R604 | A1135日－10021 | 10K 1／10W 1\％CHIP 0日05 | A 1 |
| R606 | A1 136日－10021 | 18K 1／10W 1\％CHIP 0805 | 白 2 |
| R607 | A11371－8205 | 日2 OHM 1 W 5\％CHIP 2512 | A 1 |
| R608 |  | OPEN | C 1 |
| 51 | 102488－1 | SPDT HOMIZ SLIDE | L 10 |
| 52 | C 7325－1 | $2 P 2$ POS．PC SLIDE SW． | L 10 |
| TBi | 102475－1 | 日LDCK， 5 POS TERMINAL | A 2 |
| TP38 | C 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | C 9896－9 | TEST POINT LOOP | N 7 |
| U1 | ᄃ 5095－2 | PUS． 15 VOLT REG． | H 10 |
| ப1× | C 991日－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |
| ப2 | C 5096－0 | NEG． 15 VOLT REG． | H 9 |
| U2x | C 991日－1 | TO220 VERT CLIP－DN HEATSINK | H 9 |
| U3 | 1024日旦1 | OPTO 日JT NPN SOIC－8 CTA $=100 \%$ | N 10 |
| $\cup 4$ | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | 19 |
| ப5 | C 8262－5 | MC3307ED DLAL LD NOISE OP AMP | N 9 |
| ப100 | 102723－2 | OPTO CELL ON＝50日 OHM | M 9 |
| U101 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |
| ப102 | ᄃ 903日－日 | COMPARATOR，QLIAD LM339D S0－14 | N 9 |
| ப104 | C 9038－8 | COMPARATOR，QUAD LM339D S0－14 | G 7 |
| ப105 | C 8262－5 | MC33078D DUAL LO NQISE OP AMP | F 7 |
| ப106 | H42902－9 | ASM，THERMAL SENSE | N 6 |
| ப20® | 102723－2 | OPTO CELL ON－50］OHM | K 9 |
| い201 | C 9012－3 | MC33079D QUAD L．O NOISE OP AMP | 」 10 |
| し202 | C 9038－8 | COMPARATOR，QUAD LM339D S0－14 | K 9 |
| ப204 | C 9038－8 | COMPARATOR，QUAD LM339D S0－14 | E 7 |
|  |  |  |  |



## Component Map

for use with
Main PWA 127354-2



INACTIVE
For Reference Use Only


| E．C．N． | ZONE | REV． | DESCRIPTION | DATE | EY | APPRQVAL5 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | CHK | CM | EE | PE |
| T991752 |  | A | INITIAL RELEASE FOA PRODUCTION． | 05／10／99 | DK | 120 | 12 | d／A | 9 |
|  |  |  |  |  |  |  |  |  |  |

## NOTES：

SCHEMATIC DRAWING NUMEER 102142.
PWB PART NUMBER $182138-9$.
THE PWA SHALL MEET THE IPC－A－610．TLASS 2 STANDAADS．
ALL LEADS SHALL EE TRIMMED TO 0．D93＂OR LESS．
POSITION COMPONENTS AS SHOWN ON COMPONENT MAP
COMPONENTS THAT HAVE（＊）AFTER THEIA MAP LOCATIDN ARE MOUNTED QN THE BOTTOM SIDE OF THE PRINTED CIRCUIT GOARD．
7．REMOVE SOLDER OR PREVENT SOLDER FROM ACCLMLLATING IN HOLES．
日．THE VENT HOLE ON TOP OF THE RELAYS K1DD AND KZDG MUST BE OPENED AFTER THE CLEANING PROCES5．BY EITMER REMOVING THE SEALING TAPE Of CUTTING OFF THE CIRCULAR TAB WITH AN＂EXACTO＂KNIFE OR SIMLLAR CUTTING TODL．WARNING．THIS STEP MLST 日E DONE AFTER THE CLEANING PROCESS NOT BEFORE！！！WATER OR CLEANING SDLVENTS ENTERING THE RELAY VENT HOLE WILL DAMAGE THE RELAY．
9．CONNECT THE WIRES THAT CDME FROM 0123 AND Q223 TO WP4 AND WPS RESPECTIVELY．
10．THE PWA PART NUMEER FOR THIS MODLLE SHALL 日E MARKED DN THE TOP SIDE OF THE P．C．日OARD AND SHALL BE PERMANENT． USE A MARKER AND MAFK OUT THE OLD PWA NUMBERS ON THE BOTTOM． THE PWA NUM日ER， $1288 B 3-4$ ，SHALL 日E PRINTED ON A LABEL AND THIS LABEL SHALL BE PLACED ON THE COMPONENT SIDE OF THE FINISHED INPUT MODULE．
11．INSTALLATION OF U1OG AND U206 IS AS FOLLOWS：
11A．REMOVE MIDDLE SLEEVE FROM TRANSISTOR 127883－1
11日．BEND TRANSISTOR AT 90 DEG．FLAT SIDE DOWN
11C．PLACE TRANSISTOR INTO THE PWE AS SHOWN ON
THE CCMPONENT MAP DETAIL $\theta$ ．
i：D．MIX OUTPUT EPOXY AND ACCELERATOR TOGETHER． APPLY THE MIXTURE TO THE TRANGISTOR AND HEATSINK． THE MIXTLAE MUST FILL THE HEATSINK HOLE AND THE LEADS OF THE DEVICE．ESPECIALLY THE CENTER LEAD． （NOTE：NO VISIBLE AIR GAPS AROUND THE TRANSISTOR AND THE TRANSISTOR LEADS CANNOT TOUCH THE HEATSINK）
11E．HOLD THE TRANSISTOR AGAINST THE HEATSINK UNTIL EPOXY SETS－UP
12．TOROUE 6－32 HEX NUTS（CPN A11056－1）AS FOLLOWS：
12A．PRE－WAVE TOROUE OF 4－6 INCH LBS．
12日．POST－WAVE AND WHEN ASSEMBLY HAS COOLED DOWN TO HANDLING TEMPERATURE TORQUE OF 13－15 INCH L日S．
13．INSTALL J3 CONNECTOR AS SHOWN ON COMPONENT MAP
14．INSTALL 52 REVERSED FROM SILK SCREENING．
15．HAND SOLDER C610（C G8B6－1）．AND C6i1（C BBDG－1）ACROSS BACK OF INPUT MODULE AS SHOWN，USE 1／2＂KAPTON TAPE $\{5$ 6285－1）AS INSLLATION BETWEEN EACH CAPACITOR AND THE BOARD．


## CAUTION

STATIC CAN DAMAGE CDMPDNENTS！

INACTIVE
For Reference Use Only

THEsE DRAWINGS AND specifichations are the PROPERTY OF EROWN INTERNATIONAL．INL，AND SHALL NOT 日E REFRODUCED．COPIED．OR USED as the basis for the manlufacture or sale OF APPARATUS OR DEVICES WITHOUT PEAMISSION，


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10020－7 | 6－32 $\times .625$ PCB CAPTIVE STUD | 8 | HW9，HW1 B，HW1 1，HW1 2．HW1 3，HW1 4， |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19．1K 0．25W $1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A10266－2R74 | 2．7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104」D | 0.1 MF $250 \mathrm{~V} 5 \% \mathrm{MTL}$ PQLY | 2 | C11日．C218 |
| A11056－1 | 6－32 HEX NUT W／BELLEVILLE | 8 | HW17，HW1 日，HW1 S，HW2日．HW21． |
|  |  |  | HW22，HW23，HW2 4 |
| A11368－10011 | 1 K 日． $10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 0805 | 8 | R101，R106，R110，R201，R206． |
|  |  |  | R210，R316．R416 |
| A1136B－10021 | 10K 1／10W 1\％CHIP g日Q5 | 35 | R9．R104．R107．R10日．R111． |
|  |  |  | R121，R176，R177，R182，R185， |
|  |  |  | R193．R196．R204．R211．R221． |
|  |  |  | R276．R277，R282，R285，R293． |
|  |  |  | R296．R313，R413．R500，R501． |
|  |  |  | R502．R503．R504．R506．R600． |
|  |  |  | R601，R602．R603．R604，R606 |
| A1136日－10031 | $100 K$ 日． $1 \mathrm{~W} 1 \%$ EHIP 0805 | 15 | R25．R30．R31．R123，R125．R17S， |
|  |  |  | R183．R186．R189，R223，R225， |
|  |  |  | R279．R283，R286，R289 |
| A11368－10221 | 10．2K 0．10W 1\％CHIP 0日05 | 2 | R11日，R21日 |
| A11368－10703 | 107 OHM Q． 25 W 1\％CHIP | 2 | R139，R239 |
| A1 1 36日－12121 | 12.1 K OHM 日．10W 1\％CHIP 0805 | 1 | R21 |
| A1 1 36B－15831 | 158 K Q． 1 ØW $1 \%$ CHIP 0B05 | 8 | R122．R124．R187．R18B，R222， |
|  |  |  | R224，R287．R2日8 |
| A11368－19122 | 19．1K 0．125W 1\％CHIP 1206 | 2 | R109．R209 |
| A11358－20021 | 20K $0.1 \mathrm{~W} 1 \%$ 日B05 T／R | 1 | R27 |
| A11368－20023 | 20K 日．25W 1\％CHIP 1210 | 3 | R10，R184．R2日4 |
| A11368－22601 | 226 OHM $0.10 W 1 \%$ CHIP 0805 | 4 | R116．R191．R215，R291 |
| A11368－39231 | $392 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | 6 | R22．R23．R102．R180，R202，R2日0 |
| A11368－49981 | 499 OHM 日．10W 1\％CHIP 0805 | 2 | R103．R203 |
| A11368－49902 | 499 OHM 日． $125 \mathrm{~W} 1 \%$ CHIP | 2 | R137．R237 |
| A11368－49921 | $49.9 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | 2 | R126．R226 |
| A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0日05 | 6 | R113．R175．R213．R275．R315，R415 |
| A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ D日®5 | 4 | R20，R24．R190，R290 |
| A11368－60432 | 604K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | 4 | R174．R192．R274．R292 |
| A1136日－61911 | 6．19K 日． $10 \mathrm{~W} 1 \%$ LHIP 0805 | 2 | R197，R297 |
| A1136B－6B121 | 68．1K 0．10W 1\％CHIP | 3 | F12．R115．R215 |
| A1136B－69811 | 6.98 K OHM 0．10W $1 \%$ CHIP 0805 | 1 | R5 |
| A11368－75R03 | 75 OHM 0．25W 1\％CHIP 1210 | 2 | R145，R245 |
| A1138B－71511 | 7.15 K OHM 日． $18 \mathrm{~W} 1 \%$ LHIP 0805 | 1 | R18 |
| A1138B－82511 | 8．25K 0．1W 1\％CHIP 0，005 | 3 | R17．R114．R214 |
| A1138B－90921 | 90．9K 0．10W 1\％LHIP 0805 | 4 | R120，R17日，R220，R27B |
| A11368－93111 | 9．31K 日． $1 \mathrm{~W} 1 \%$ CHIP 0E05 | 1 | R6 |
| A11359－102」2 | $0.001 \mathrm{LF} 50 \mathrm{~V} 5 \%$ NPO MLC 0805 | 2 | C134．c234 |
| A11369－120K2 | 12 PF 50 V 10\％NPO 0805 T／R | 6 |  |
| A11369－270×2 | 27PF 50V 10\％NPO 0805 T／R | 2 | C107．С207 |
| A11369－330」2 | 33PF 50V 5\％NPO MLC 0805 | 2 | C142．C242 |
| A11369－471×2 | 470PF 50V 10\％NPO 0日05 T／R | 4 | C11日．C141．C210．C241 |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| C．P．N | DESCRIPTION | QTY | REFERENCE DESIGNATIDN |
| :---: | :---: | :---: | :---: |
| A11371－R221 | 0.22 OHM 0．10W 5\％CHIP 0805 | 3 | R14．R15，R33 |
| A11371－0RE2 | 0.0 OHM JUMPER CHIP 1206 | 4 | R199，R299，R323，R423 |
| A11371－1011 | 100 OHM ®．10W 5\％CHIP 0805 | 3 | R13．R147． R 247 |
| A11371－1813 | 100 OHM ．25W 5\％1210 SMT T／R | 2 | R322，R422 |
| A11371－1022 | 1 K Q． $125 \mathrm{~W} 5 \%$ CHIP 1205 | 1 | R日 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 4 | R138，R144，R238，R244 |
| A11371－1331 | 13 K OHM D．1日W 5\％CHIP 0日05 | 4 | R146．R161．R246．R261 |
| A11371－1501 | 15 OHM 0．10W 5\％CHIP | 5 | C506．С607．С608．R160．R260 |
| A11371－1811 | 180 OHM 0．10W 5\％CHIP | 4 | R14日．R163，R248，R263 |
| A11371－2223 | 2．2K D．25W 5\％CHIP 1210 | 2 | R132，R232 |
| A11371－2225 | 2． $2 \mathrm{~K} 1 \mathrm{~W} 5 \%$ CHIP 2512 | 1 | R2 |
| A11371－3313 | 330 OHM 0．25W 5\％CHIP | 2 | R4．R19 |
| A11371－3333 | 33K D．25W 5\％LHIP 1210 | 6 | R113．R140．R143．R219．R240．R243 |
| A11371－3341 | 330 K 0．10W 5\％CHIP 0805 | 7 |  |
|  |  |  | R414 |
| A11371－3923 | 3．9K 0． 25 W 5\％CHIP | 3 | R16．R135． R 235 |
| A1 1371－3934 | 39K OHM D．50W 5\％CHIP 1210 | 4 | R317．R31日，R417．R418 |
| A11371－4701 | 47 OHM 0．10W 5\％CHIP | 2 | R1E2，R262 |
| A11371－4724 | 4．7K OHM D．50W 5\％CHIP 2010 | 2 | R142．R242 |
| A11371－5615 | 5EQ OHM 1W 5\％ 2512 T／A | 2 | R32，R34 |
| A11371－5R63 | 5．6 0．25W 5\％CHIP | 4 | R150，R165，R250，R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | F420．R421 |
| A 11371 －6814 | 680 OHM $0.50 \mathrm{~W} 5 \%$ CHIP | 6 | R105．R12日，R181．A205，R228，R281 |
| A11371－6821 | 6.8 K 0.10 W \％CHIP 0805 | 2 | R127，R227 |
| A11371－7511 | 750 OHM 0．10W 5\％CHIP | 3 | R2B，R133，R233 |
| A11371－8201 | 82 OHM ®． $10 \mathrm{~W} 5 \%$ LHIP | 4 | R136，R194，R236，R294 |
| A11371－8205 | 82 OHM 1W 5\％CHIP 2512 | 1 | R607 |
| A11371－8211 | 日20 OHM 0．10W 5\％CHIP | 6 | R129，R141．R195，R229，R241．R295 |
| A1137日－A850L | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A1 1379－C050L | WIRE， 16 BLU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | 0.01 MF 50 V 10\％CHIP 0805 | 6 | C109．C111，C215．C209．C211，C215 |
| A11427－103K5 | В． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | 2 | C143，C243 |
| A11427－104K2 | 0.1 MF 50V 10\％0905 | 30 | C6．C7．C12．C24，C25，C28．C29． |
|  |  |  | C122．C126．C127．C128，ᄃ129， |
|  |  |  | ᄃ139．C131．C132．C133．С139， |
|  |  |  | ᄃ222．c226． $2227 . \mathrm{C} 228 . \mathrm{C} 229$ ， |
|  |  |  | C230，С231，ᄃ232，ᄃ233，С239， |
|  |  |  | С505． 5 506． 6605. |
| A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP}$ | 2 | C112．c212 |
| A11427－272K2 | 270日PF 50V 10\％CHIP 0905 | 2 | C117．ᄃ217 |
| A 1 1 427－472K2 | 470日PF 50V 10\％×7月 0日05 | 4 | C116．C119．C216．C219 |
| C 2851－1 | 1 N4004 SILICON RECT． | 7 | D1，D2，D3，D4，DG，D7，D10 |
| C 3510－2 | CHOKE，470UH 10\％AXIAL | 4 | L10日，L101，L200，L201 |
| C 3549－0 | DIODE ZENER，10V， 1 N5240B | 1 | D8 |
| C 3679－5 | 33UF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | ［4． 55 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only
THESE DPAWINGS AND SPECIFICATIDNS ARE THE PPGPERTY OF CROW INTENATIONAL．INL AND
AS THE MASIS FOR THE MANLEAKTURE OR SALE
OF APPARATUS OR DEVICES WITHOUT PERMISSION


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5096－0 | NEG． 15 VOLT REG | 1 | U2 |
| C 5362－6 | 2.2 MF 50 V VEAT | 1 | C27 |
| C 6日02－0 | 47 MF 50 V AX CERM | 2 | C102，ᄃ202 |
| C 6日06－1 | ®1 LIF $10 \square V$ AXIAL CER T／R | 2 | C610．L611 |
| C 7091－9 | 0.33 MF 50 V CHIP 120 B | 3 | C22．ᄃ140．C240 |
| ᄃ 7325－1 | 2P 2 POS．PC SLIDE SW． | 1 | S2 |
| C 7448－1 | MMBT3904 CHIP NPN | 6 | 0100，0101．0129．0200．0201．0229 |
| C 8262－5 | MC3307日D DUAL LO NOISE OP AM | 4 | ப4．ப5．ப105，U205 |
| C 8576－8 | 10 D MF 35V 10\％ELEC | 1 | C26 |
| C 9012－3 | MC33079D QUAD LO NOISE OF AM | 3 | ப101．U20 1． 4500 |
| c 9038－8 | COMPARATOR．OLJAD LM339D S0－1 | 4 | U102，U1®4，U202，ப204 |
| C 9157－6 | $100 \mathrm{LF} 16 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／ | 2 | C123．C223 |
| C 9252－5 | 2N3904 40V NPN TRAN5ISTOR | 2 | 口104，Q204 |
| C 9283－0 | DIODE，1NS14／1N4148 SOT－23 S | 55 | D9．D13．D101．D102．D103，D104， |
|  |  |  | D105，D106．D187．D10日，D109， |
|  |  |  | D110．D111．D112．D113．D116． |
|  |  |  | D117．D118．D119，D120，D121， |
|  |  |  | D122．D123．D124，D125．D126． |
|  |  |  | D127，D128，D129，D130，D201． |
|  |  |  | D202，D203．D204，D205．D206， |
|  |  |  | D207，D208，D209，D210，D211． |
|  |  |  | D212．D213．D216，D217，D218． |
|  |  |  | D221，D222，D223，D224，D225， |
|  |  |  | D226，D227，D22日，D229，D230 |
| ᄃ 9896－9 | TEST POINT LOOP | 2 | TP38．TP39 |
| C 9918－1 | TO220 VERT LLIP－ON HEATSINK | 2 |  |
| C 9931－4 | MMBT5087LT1 PNP XSISTOR SOT－ | 5 |  |
| C10196－1 | 2．2MF 50V 20\％RAD T／R | 4 | C121．C124．C221．C224 |
| C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105，C205 |
| C10422－1 | DIQDE，3A 409V 1N5404 AXIAL | 4 | D114．D115．D214．D2 15 |
| C10613－5 | $1 K$ TOP ADJUST TRIMMER T／R | 2 | R134，R234 |
| D 8917－3 | 日20ロபF $110 \vee D C$ ELECTROLYTIC | 2 | C20．C21 |
| S 6285－1 | TAPE，KAPTON（POLYIMIDE） $1 / 2^{\prime \prime}$ | 0 | TAPE |
| 101016－1 | LBL，BARCODE，， | 1 | 2 |
| 101031－1 | 250 FASTON．AUTO INSERTABLE | 3 | WP 4，WP5．WP7 |
| 101571－1 | HDR 2 PDS ． 1 ETR MTA SHRD | 1 | J 4 |
| 101573－1 | HDR 4 POS ． 1 CTR MTA SHRD | 1 | J2 |
| 101993－1 | JACK，6P4 COND MODLLLAR R／A | 1 | J 5 |
| 182138－9 | PW日．CE10日B／CE2000 MAIN／INPU | 1 | 1 |
| 10243日－101k2 | 100PF 200V 10\％NPO 0805 | 6 | C184，ᄃ120．ट135．c204．С220．C235 |
| 10243日－560k2 | 56PF 200V 10\％NPO 0805 | 4 | C106．C206，C504．C604 |
| 10243日－820K2 | 日2PF 200V 10\％NPO 0日05 | 4 | C10日，c．38，c208，ᄃ23日 |
| 102465－1 | 47UF 50V 20\％RADIAL T／R | 2 | C101．c201 |
| 102466－1 | $10 \mathrm{LF} 250 \mathrm{~V} 20 \%$ RADIAL T／R | 1 | C1 |
| 102467－1 | 22MF 25V 20\％RAD T／R | 4 | ᄃ103．c203． $5503 . \mathrm{C603}$ |
| 102468－1 | 47 LF 10V 20\％NP RAD T／R | 4 | ᄃ113．ᄃ114，ट213．C214 |
| 102470－1 | INDUCTOR．2．75UH 11A RADIAL | 2 | L102．L202 |
| 102471－2 | HDR，12POS 2．5MM RT ANG KEYE | 1 | J502 |
| 102472－3 | HDR，16POS． 100 CTA SGL ROW | 1 | J3 |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESERIPTION | QTY | REFERENCE DESIGNATIDN |
| 102473－1 | SPEAKON． 4 POLE PCB HDAZ | 2 | 」100，」200 |
| 102475－1 | 日LOCK， 5 POS TERMINAL | 1 | T日1 |
| 102478－1 | LED．SMT R／A GREEN | 3 | E个，E101．E201 |
| 102477－1 | LED，SMT R／A RED | 4 | E100．E102．E200，E202 |
| 102478－1 | TRIAC DRIVER SBS 8 V THRESH | 2 | Q132，Q232 |
| 102479－1 | PWR MJJ 112 NPN DARLINGTON 10 | 3 | D1，Q2，Q3 |
| 1024日0－1 | FET，N－CH 25V 50MA SOT－23 | 2 | Q133．0233 |
| 1024日1－1 | NPN 25 V LOW NOISE SOT－23 | 2 | Q10日． 0208 |
| 1024日3－1 | PNP 300V 500MA SOT－23 | 2 | 0103．0203 |
| 1024日6－1 | OPTO BJT NPN SOIE－8 CTA $=100$ | 1 | U3 |
| 102488－1 | SPDT HORIZ SLIDE | 1 | 51 |
| 102573－3 | HS ASM，T2 ISOLATED CHÍ． | 1 | HS3 |
| 102574－3 | HS ASM．T2 ISOL．ATED CH2． | 1 | H54 |
| 102575－3 | H5 ASM，T2 NON－ISOLATED CH1． | 1 | HS 1 |
| 102576－3 | HS ASM．T2 NON－ISOLATED CH2． | 1 | HS2 |
| 102578－1 | SPACER， $6 \times .125$ AL BLK ANODIZ | 8 | HW1．HW2．HW3．HW4，HW5．HWE．HW7． |
|  |  |  | HWB |
| 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT．5K LIN 21 DNT 12MM HORI | 2 | R100．R20日 |
| 102723－2 | OPTO CELL ON＝50日 OHM | 2 | ப100．U20日 |
| 183180－1 | EUMPER，0．4＂TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 0.47 UF Z5U $121020 \% 50 \mathrm{~V}$ | 2 | C144，C244 |
| 103192－1 | NPN 30日V 50日MA 50MHZ 50T－223 | 4 | Q107，Q110，Q207，Q210 |
| 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 4 | Q105，प120，Q205．Q220 |
| 103135－1 | 0.4 OHM 1 W 5\％ 2512 T／R | 54 | R1．R7．R152．R153，R154．R155． |
|  |  |  | R156．R157，R159，R167．R168． |
|  |  |  | R169，R170，R171，R172，R252． |
|  |  |  | R253．R254．R255．R256，R257． |
|  |  |  | R259，R267，R268，R269，R270， |
|  |  |  | R271．R272．R300，R301．R302． |
|  |  |  | R303，R304．R305，R306，R307． |
|  |  |  | R30日．R309．R310，R311．R312． |
|  |  |  | R400，R401，R402，R403，R404． |
|  |  |  | R405．R406．R407，R408．R409． |
|  |  |  | R410．R411．R412 |
| 103210－1 | 2．2UF 160 V RADIAL T／R | 4 | ᄃ136．С137，ᄃ236，С237 |
| 103331－N050R | WIRE， 15 日LK／WHT TAB $\times 5 \times \mathrm{T}$ | 1 | WP2 |
| 103418－103K2 | ठ1 MF 10日V 1日\％$\times 7 \mathrm{R}$ 0日05 SMD | 1 | C2 |
| 103435－70608 | SCREW，6－32 X． 5 TORX PNHD SEM | 2 | HW27．HW2 |
| 125106－1 | MAC9D 8 AMP 400V TRIAC | 2 | 0131． 2231 |
| 125242－1 | CAP，． $225 I D \times 1{ }^{\text {¢ }}$ VINYL | 1 | 3 |
| 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | $\square$ | 5 |
| 125483－1 | ACT IVATOR LOCTITE＂OUTPUT＂ | 0 | 6 |
| 125508－1 | 10 LF SOVDC ELECTROLYTIC SMD | 2 | C3． 538 |
| 126317－1 | REL，30A 24 V SPST PCE W／FAST | 2 | K100，K200 |
| 126825－1 | SILICONE，CLEAR 3OZ SYRINGE | $\square$ | 4 |
| 126929－1 | 1／4＂TRS／XLA COMEO PCB VERT | 2 | J500，Ј500 |
| 127442－1 | PREP，CE HI－V WIRE | 1 | WP6 |
| 127683－1 | SENSOR，CE THERMAL | 2 | ப106，ப205 |
|  |  |  |  |

INACTIVE
For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C1 | 1024E5－1 | 10 LF 250 V 20\％RADIAL T／R | J 8 |
| C2 | 103418－103K2 | Ø．日1 MF 10®V 10\％×7R 0805 5MD | F 9＊ |
| C3 | 125508－1 | 1 DLF 50VDC ELECTROLYTIC SMD | 18 |
| C4 | ᄃ 4477－3 | 470 MF 35 V VERT | $\square 10$ |
| C5 | C 4477－3 | 47 MF 35V VERT | G 9 |
| C6 | A11427－104K2 | 0． 1 MF 50V 1日\％0B05 | H 10＊ |
| C7 | A11427－104K2 | 0.1 MF 50V 10\％0805 | H $\mathrm{g}^{*}$ |
| C12 | A11427－104K2 | 0.1 MF 50V 10\％0905 | I 9＊ |
| C20 | D 8917－3 | 820®LF 110VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 820ロLF 110VDC ELEETROLYTIC | 日 9 |
| C22 | C 7091－9 | $0.33 \mathrm{MF} \mathrm{50V} \mathrm{CHIP} 1206$ | N $9^{*}$ |
| C24 | A11427－104K2 | Q． 1 MF 50V 10\％0B05 | N 9＊ |
| ᄃ25 | A11427－104K2 | D． 1 MF 50V 10\％日B05 | －9＊ |
| C26 | C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | I 9 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10 |
| ᄃ28 | A11427－104K2 | 0.1 MF 50V 10\％0B05 | 」 ＊$^{*}$ |
| ᄃ29 | A11427－104K2 | 0.1 MF 50V 10\％0805 | I $3^{*}$ |
| ᄃ30 | 125508－1 | 1 ØUF 50VDC ELECTROLYTIC SMD | I 8 |
| ᄃ31 | ［ 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C101 | 102465－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| C102 | ᄃ 6日02－0 | 47 MF 50 V AX CEAM | M 9 |
| ᄃ103 | 102457－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | M 3 |
| C104 | 102438－101×2 | 100PF 200V 10\％NPO 0805 | M $9^{*}$ |
| C105 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－550K2 | 56PF 200V 10\％NPO 0805 | L 9＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO 0805 T／R | L $\mathrm{S}^{*}$ |
| C108 | 102438－820K2 | 日2PF 200V 10\％NPO 0805 | L 10＊ |
| C． 109 | A11427－103K2 | В． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H $\mathrm{E}^{*}$ |
| C110 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／A | M 7＊ |
| C111 | A11427－103K2 | 0．01MF 50V 10\％CHIP 0805 | N 8＊ |
| C112 | A11427－123K2 | D． 12 L MF 50V 10\％LHIP | 0 8＊ |
| C113 | 10246日－1 | 47UF 18V $20 \%$ NP RAD T／R | N 8 |
| C114 | 10246日－1 | 47LF 1 $\mathrm{VV}^{20 \%} \mathrm{NP}$ RAD T／R | N 8 |
| C115 | A11427－103K2 | D．01 MF 50V 10\％ 0805 | N 8＊＊ |
| C116 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | N 7＊ |
| C．117 | A 1 1427－272K2 | 270日PF 50V 10\％CHIP 0885 | I 7＊ |
| C119 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | 18 |
| C119 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | $17 *$ |
| C120 | 102438－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0805 | $1{ }^{7 *}$ |
| C121 | ［10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \%$ RAD T／R | G 8 |
| C122 | A11427－104K2 | 0.1 MF 50V 10\％0805 | F $\mathrm{B}^{*}$ |
| C123 | C 9157－6 | 1 DOUF $15 \mathrm{~V} 20 \% \mathrm{NP}$ ELEC RAD T／R | F 8 |
| C124 | C10196－1 | 2．2MF 50V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | 0． 1 MF 50V 10\％ロ日® 5 | N 10＊ |
| C127 | A11427－104K2 | 0.1 MF 50V 10\％0805 | N 9＊ |
| C128 | A11427－104K2 | D． 1 MF 50V 10\％0805 | M 10＊ |
| C129 | Al $1427-104 \mathrm{~K} 2$ | 0． 1 MF 50V 10\％0805 | M ${ }^{\text {＊}}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## PARTS LIST

| REF DES | C．P．N． | DESCRIPTIDN | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C130 | A11427－104K2 | 0.1 MF 50V $10 \% 0805$ | H 8＊ |
| C131 | A11427－104K2 | 0.1 MF 50V $10 \%$ 0805 | H ${ }^{*}$ |
| C132 | A11427－104K2 | D． 1 MF 50V 10\％0805 | F 7＊ |
| C133 | A11427－194K2 | 0.1 MF 50V $10 \%$ 0805 | F 8＊ |
| C134 | A11369－102」2 | 0． 001 l （ 50 V 5\％NPO MLᄃ 0805 T ／ | M 7 ＊ |
| C135 | 102438－101k2 | 100PF 20DV 10\％NPO 0805 | N 7＊ |
| C136 | 183210－1 | 2． 2 LF 160V RADIAL T／R | I 7 |
| C137 | 103210－1 | 2．2UF 160V RADIAL T／R | I 7 |
| C138 | 102438－820K2 | 日2PF 200V 10\％NPD 0805 | M ${ }^{*}$ |
| C．139 | A11427－104K2 | D． 1 MF 50V 10\％0B05 | ［ 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V CHIP 1206 |  |
| C141 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | N 10 |
| C142 | A11369－330」2 | $33 \mathrm{FF} 50 \mathrm{~V} 5 \% \mathrm{NPO}$ MLC 0805 | M 10 |
| C143 | A11427－103K5 | D． $01 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1205$ | M 9＊ |
| C144 | 103191－1 | 0．47UF 25U $121020 \% 50 \mathrm{~V}$ | G 7＊ |
| C201 | 102465－1 | 47UF 50V 2日\％RADIAL T／R | J 9 |
| C202 | C 6802－0 | 47 MF 50 V AX CERM | K 9 |
| С203 | 102467－1 | 22MF 25V 20\％RAD T／R | K 9 |
| C204 | 102438－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \% \mathrm{NPO} 0805$ | 」 －$^{*}$ |
| C205 | く10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| c206 | 102438－550K2 | 56PF 200V 10\％NPO 0805 | J $9^{*}$ |
| C207 | A11369－270＜2 | 27PF 50V 10\％NPO 0805 T／R | 」 ${ }^{*}$ |
| ᄃ208 | 102438－820K2 | G2PF 200V 10\％NPO 0805 | J 10＊ |
| C209 | A11427－103K2 | В． $11 \mathrm{mF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | H $3^{*}$ |
| C210 | A11369－471K2 | 470РF 50V 10\％NPO 0805 T／R | K ${ }^{*}$ |
| C211 | A 1 1 427－103K2 | 日． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ LHIP 0805 | K 7＊ |
| C212 | A11427－123K2 | Q． $12 \mathrm{MF} 50 \mathrm{~V} 10 \% \mathrm{CHIP}$ | L 8＊ |
| C213 | 10246日－1 | 47UF 10V 20\％NP RAD T／R | K 8 |
| C214 | 102468－1 | 47UF 10V 20\％NP RAD T／R | K 8 |
| C215 | A11427－103K2 | Q．01 MF 50V 10\％0日05 | K $\mathrm{B}^{*}$ |
| C216 | A11427－472K2 | $4700 \mathrm{PF} 50 \mathrm{~V} 10 \% \times 7 \mathrm{R} 0805$ | 」 $2^{*}$ |
| C217 | A11427－272K2 | 270DPF 50V 10\％CHIP 0805 | D 1＊ |
| C218 | A10434－104JD | B． 1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％$\times 7 \mathrm{R} 0805$ | E 1＊ |
| C220 | 102438－101K2 | 10ロPF 200V 10\％NPO 日g05 | D $2 *$ |
| C221 | C10196－1 | 2．2MF 50V $20 \%$ RAD T／R | E 8 |
| C222 | A11427－104K2 | 0． 1 MF 50V 10\％0905 | E 8＊ |
| C223 | C 9157－6 | 1 DDUF $16 \mathrm{~V} 20 \%$ NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． 2 MF 5 V V 20\％RAD T／R | J 9 |
| С228 | A11427－1日4K2 | 0．1 MF 50V 10\％0BD5 | K 10＊ |
| ᄃ227 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 日e05 | K ＊$^{\text {\％}}$ |
| C228 | A1 1427－104K2 | 0.1 MF 50V 10\％ロ日05 | J 10＊ |
| ᄃ229 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0日05 | 」 9＊ |
| C230 | A19 427－104K2 | 0.1 MF 50V $10 \%$ 0日05 | E $8^{*}$ |
| C231 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | E 7＊ |
| C232 | A1 1427－104K2 | 0.1 MF 50V 10\％0805 | E 7＊ |
| C233 | A11427－104K2 | 0．1 MF 50V 10\％0805 | D $8^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

CROWN INTERNATIDNAL INC． 1718 WESt mishawaka road elkhart．indiana 46517 phone 12191 294－800e


PARTS LIST

| REF DES | C．F．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| C234 | A11363－182J2 | Q．001 LF 5日V 5\％NPO MLC 0B05 T／ | 」 7＊ |
| C235 | 102438－101K2 | 100PF 200V 10\％NPO 0日05 | 」 2＊ |
| ［236 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| С237 | 103210－1 | 2． 2 LF 160V RADIAL T／R | I 1 |
| ᄃ238 | 102438－日20k2 | B2PF 20日V 10\％NPO 日日05 | J 7＊ |
| C239 | A11427－104K2 | D． 1 MF 50V 10\％0805 | E $7^{*}$ |
| C240 | C 7031－9 | D．33 MF 50V CHIP 1206 | 」 9 |
| C241 | A11369－471k2 | 470PF 50V 10\％NPO 0805 T／R | L 10 |
| C242 | A11363－330」2 | 33PF 50V 5\％NPO MLC 0日85 | K 10 |
| C243 | A11427－103K5 | 0.01 MF 50 V 5 $\times 7 \mathrm{~A} 1206$ | K ${ }^{*}$ |
| C244 | 103191－1 | 0.47 LF 25U 1210 20\％50V | E 7＊ |
| ¢500 | A11369－120K2 | 12PF 50V 10\％NPQ 0805 T／R | A 2 |
| С501 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO $0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| C502 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | B 2 |
| C503 | 102467－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | B 2 |
| C504 | 102438－560k2 | 56PF 200V 10\％NPO Q日RS | A 2 |
| C505 | A11427－104K2 | 0．1 MF 50V 10\％0805 | A 2 |
| c506 | A11427－104K2 | D． 1 MF 50V 10\％0805 | A 2 |
| C509 |  | OPEN | B 2 |
| c600 | A11369－120K2 | $12 \mathrm{FF} 50 \mathrm{~V} 10 \%$ NPO 0BQ5 T／R | A 2 |
| C601 | A11369－120K2 | 12PF 50V 10\％NPO 日日05 T／R | A 1 |
| C602 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0 日 05 \mathrm{~T} / \mathrm{R}$ | A 2 |
| C603 | 102457－1 | $22 \mathrm{MF} 25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | B 2 |
| C604 | 102438－560k2 | 56PF 200V 10\％NPO 0805 | B 2 |
| c605 | A11427－184K2 | 0.1 MF 50V 10\％日日05 | A 1 |
| c606 | A11371－1501 | 15 OHM ．1 W 5\％0805 T／R | C 3 |
| C607 | A 1 1371－1501 | 15 OHM ． $1 \mathrm{~W} 5 \%$ 0005 T／R | ᄃ 3 |
| C608 | A11371－1501 | $15 \mathrm{OHM} .1 \mathrm{~W} 5 \%$ 0805 T／R | 81 |
| C609 |  | OPEN | a 2 |
| C610 | C 680日－1 | 0.01 UF 100V AXIAL CER T／R | B 3 |
| C．611 | C 6806－1 | 0.01 UF 100V AXIAL CER T／R | B 1 |
| D 1 | C 2851－1 | 1 N4004 SILICON RECT． | G 9 |
| D2 | C 2851－1 | 1 N4004 5ILICON RECT． | E 10 |
| D3 | C 2851－1 | 1 N 4004 SILICON RECT． | G 10 |
| D4 | C 2日51－1 | 1 N 4094 SILICON RECT． | G 10 |
| DE | C 2851－1 | $1 \mathrm{~N} 40 ⿹ 4$ SILICON AECT． | 」 B |
| D7 | C 2851－1 | 1 N 4004 SILICON RECT． | 」 8 |
| D日 | C 3549－0 | DIODE ZENER．10V，1N5240日 | 」 8 |
| D9 | C 92日3－0 | DIODE，1N914／1N4148 SOT－23 SMT | I 9＊ |
| D10 | C 2851－1 | $1 \mathrm{~N} 4004 \mathrm{SILICON} \mathrm{RECT}$. | I 10 |
| D13 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | I 9＊＊ |
| D101 | ᄃ 9283－0 | DIODE．1NG14／1N414B SOT－23 5MT | N 9＊ |
| D102 | ᄃ 92日3－6 | DIODE，1N914／1N414日 SOT－23 SMT | N 9＊ |
| D103 | ᄃ 9283－0 | DIODE，1N914／1N414日 SOT－23 SMT | L 9＊ |
| D104 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | M $9^{*}$ |
| D105 | C 9283－0 | DIODE．1N914／1N4148 SOT－23 SMT | L 9＊ |
| D106 | ᄃ 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | N 8＊＊ |
| D107 | C 9283－8 | DIODE，1NS14／1N4148 SOT－23 SMT | N $8^{*}$ |
| D108 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | $\mathrm{NB}^{*}$ |
|  |  |  |  |



## INACTIVE

For Reference Use Only

| CRDWN IN |  |  | NTERNATIDNAL <br> ELKHART. INDIANA 45517 <br> PHONE |  | INC. <br> 12191 294-80a0 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DRAWN | DK | 09/10/99 | DWG. NO. | SHEET | g DF 21 | RE |
| PRO. | MD390D |  |  | 3 |  |  |

## PARTS LIST




## PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| Q203 | 102483－1 | PNP 300V 500MA 50T－23 | 」 9＊ |
| 0204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| Q205 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 」 7 ＊ |
| 0207 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | K $7 *$ |
| 0208 | 102481－1 | NPN 25V LOW NOISE SOT． 23 | K 7＊ |
| 0209 | C 9931－4 | MMET50日7LT1 PNP $\times$ SISTOR SOT－23 | K $8^{*}$ |
| 0210 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | 」 2＊ |
| Q211 | ᄃ 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | 」 2＊ |
| Q212 | 103200－1 | NPN 230V 15A 30MHZ $25 C 5242$ | 」 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0220 | 103193－1 | PNP 300V 500MA 50 MHZ SOT－223 | D 2＊ |
| 0221 | 103200－1 | NPN 230V 15A 30MHZ $25 C 5242$ | D 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0229 | C 7448－1 | MMET3904 CHIP NPN | E 9＊ |
| 0231 | 12510E－1 | MACSD 日 AMP 400V TRIAC | E 9 |
| 0232 | 102478－1 | TRIAC DRIVER S日S 8V THRESH | F 8 |
| 0233 | 102480－1 | FET，N－CH 25V 50MA SOT－23 | 」 9＊ |
| R1 | 103199－1 | B． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J $\mathrm{B}^{*}$ |
| R2 | A11371－2225 | 2．2K 1W 5\％CHIP 2512 | 」 $\mathrm{B}^{*}$ |
| R3 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | $18^{*}$ |
| R4 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I 1 ＊ |
| R5 | A1136日－69811 | 6．9日X OHM 0．10W 1\％CHIP D日05 | D $8^{*}$ |
| R6 | A11368－93111 | 9．31K 0．1W $1 \%$ CHIP 0805 | D $8^{*}$ |
| R7 | 103159－1 | 0.4 OHM 1W 5\％2512 T／R | 」 $8^{*}$ |
| RE | A1 1 371－1022 | 1 K 日． $125 \mathrm{~W} 5 \% \mathrm{CHIP} 1206$ | N 10＊ |
| R9 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | H $3^{*}$ |
| R10 | A 1 1368－20023 | 20K ロ．25W 1\％LHIP 1210 | H 9＊ |
| R1 1 | A11371－3341 | 330K ロ．10W 5\％CHIP 0805 | I $3^{*}$ |
| R12 | A1135日－88121 | 5B． 1 K B ． $1 \mathrm{DW} 1 \%$ CHIP | I 9＊ |
| R13 | A11371－1011 | 1 D6 OHM D． $10 \mathrm{~W} 5 \%$ LHIP 0805 | I 10＊ |
| R14 | A11371－R221 | 0.22 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| F15 | A11371－R221 | 0.22 OHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| F17 | A11368－82511 | 8．25K 0．1W 1\％CHIP 0805 | F 10＊ |
| P18 | A11368－71511 | 7.15 K OHM 0．10W $1 \%$ CHIP 0B05 | D $8^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25W 5\％CHIP | I $1^{*}$ |
| R20 | A11368－57621 | $57.6 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | I \％＊$^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R21 | A11368－12121 | 12．1K OHM 0．10W $1 \%$ CHIP 日g05 | 」 9＊ |
| R22 | A11368－39231 | 392K 0．10W 1\％EHIP 0805 | 1 9＊ |
| R23 | A11 368－39231 | 392K 0．10W 1\％CHIP 0日05 | I 9＊ |
| R24 | A11368－57621 | 57.6 K Q．10W 1\％CHIP 0805 | I $9 *$ |
| R25 | A11368－10031 | 100K 0．1W $1 \%$ LHIP D日05 | N 9＊ |
| R26 | A 1 1 371－3341 | $330 K$ 0．10W 5\％CHIP 0日05 | A $9^{*}$ |
| R27 | A11368－20021 | 20K 1／10W 1\％CHIP 8日05 | L 9＊$^{*}$ |
| R28 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L 9＊ |
| R23 |  | OPEN | B 2 |
| R30 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 0日05 | I $8^{*}$ |
| R31 | A11368－10031 | 100K ロ．1W 1\％CHIP D日Q5 | J 8＊ |
| R32 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 8 |
| R33 | A11371－R221 | 0.22 DHM 0．10W 5\％CHIP 0805 | I 10＊ |
| R34 | A11371－5615 | 560 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | J 8 |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A11388－10011 | 1K 日．10W 1\％CHIP 0805 | M 10＊ |
| R102 | A11358－39231 | 352K 0．10w $1 \%$ EHIP 0805 | N 5＊ |
| R103 | A11388－49901 | 499 OHM D． $10 \mathrm{~W} 1 \%$ CHIP DBQ5 | N 9＊ |
| R104 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0805 | N ®＊$^{*}$ |
| R105 | A11371－6814 | 680 OHM D．50W 5\％CHIP | J 1＊ |
| R106 | A11368－10011 | 1 K 日． $10 \mathrm{~W} 1 \% \mathrm{CHIP}$ 0805 | M 9＊ |
| R107 | A11358－10021 | 10K 1／10W 1\％CHIP B日05 | L 10＊ |
| R108 | A11368－10021 | 10K 1／10W 1\％CHIP 0B05 | L 10＊ |
| R109 | A11368－19122 | 19.1 K D． $125 \mathrm{~W} 1 \%$ CHIP 1206 | M $9^{*}$ |
| R110 | A1 1368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | L \％＊$^{\text {c }}$ |
| R111 | A1 1368－10021 | 10K 1／10W $1 \%$ CHIP 0BQ5 | L S＊ |
| R112 | A10265－19121 | 19.1 K Q． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | L 3 |
| R113 | A11368－51111 | 5．11K OHM 0．10W 1\％CHIP 0805 | L 10＊ |
| R114 | A1136B－82511 | B． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | L 10＊ |
| R115 | A11368－68121 | 6日．1K 0．10W 1\％CHIP | L 10＊ |
| R116 | A1136日－22601 | 226 OHM D． 1 DW 1\％CHIP 0805 | M $9^{*}$ |
| R117 | A11371－3341 | $330 K$ 0．10w 5\％CHIP 0805 | M 9＊ |
| R118 | A11368－10221 | 10．2K 0．10W 1\％CHIP 0805 | M 10 |
| R119 | A11371－3333 | 33 K 0.25 W 5 CHIP 1210 | M 9＊ |
| R120 | A11368－90921 | 90．9X 8．10W 1\％CHIP 0805 | M 9＊ |
| R121 | A11368－10021 | 10K 1／10W 1\％CHIP 0日05 | M 10 |
| R122 | A11368－15831 | $158 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R123 | A11368－10031 | 100K 0．1W 1\％LHIP 0805 | M S＊$^{*}$ |
| R124 | A1136日－15831 | 158K 0．10w $1 \%$ CHIP 0805 | M $3^{*}$ |
| A125 | A1136日－10031 | 10日K 0．1W 1\％CHIP 08D5 | N 9＊ |
| F126 | A1136日－49921 | $49.9 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | M 日＊$^{*}$ |
| F127 | A11371－6821 | 6．8K 0．10W 5\％CHIP 0805 | N 9＊ |
| F128 | A11371－6814 | 680 OHM 0．50W 5\％LHIP | 」 ${ }^{*}$ |
| F129 | A11371－8211 | B20 OHM 0．10W 5\％LHIP | N 7＊ |
| R130 |  | OPEN | 0 日＊ |
| R131 |  | OPEN | O $\mathrm{日}^{*}$ |
| F132 | A11371－2223 | 2．2K 0.25 W 5\％CHIP 1210 | H 6 ＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R185 | A11368－10021 | 10K 1／10W 1\％CHIP 0B05 | G 8＊ |
| R186 | A11388－10031 | 10日K 日．1W 1\％EHIP 0805 | N 10＊ |
| R197 | A11368－15831 | 158K ロ．10W 1\％CHIP 0805 | M 10＊ |
| R168 | A11368－15831 | 15BK 0．10W 1\％CHIP 0805 | N 10＊ |
| R189 | A11368－10031 | 100K D．1W 1\％CHIP 8日®5 | M 10＊ |
| R190 | A11368－57621 |  | N E＊ |
| R191 | A1 1368－22691 | 226 OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | N 6＊＊ |
| R192 | A11368－60432 | 604K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | L $\mathrm{S}^{*}$ |
| F193 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | N ®＊$^{*}$ |
| R194 | A11371－8201 | B2 OHM D．10W 5\％CHIP | M 7 ＊ |
| R195 | A11371－8211 | B20 OHM 0．10W 5\％CHIP | M 7＊ |
| R196 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | M 9＊ |
| R197 | A11368－61911 | 6．19K 0．10W $1 \%$ CHIP 0805 | M 10 |
| R198 |  | OPEN | M 10 |
| R199 | A11371－0RD2 | D．$\square$ OHM JUMPER CHIP 1206 | N 8＊＊ |
| R200 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A11368－10011 | 1 K Q． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 大 10＊ |
| R202 | A11368－39231 | 392K 0．10W 1\％CHIP 8805 | L $\mathrm{S}^{*}$ |
| R203 | A1136B－49901 | 499 OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | L B＊$^{*}$ |
| F204 | A11368－10021 | 10K 1／10W 1\％LHIP D885 | L $3^{*}$ |
| R205 | A11371－6814 | 680 OHM 0．50W 5\％LHIP | M 1＊ |
| F206 | A11368－19011 | 1K 0．10W 1\％CHIP 0805 | 」 $9^{*}$ |
| R209 | A1136日－19122 | 19．1K 0．125W 1\％CHIP 1206 | K 9＊ |
| R210 | A1136日－10011 | 1K D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 ＊$^{*}$ |
| F211 | A11368－10021 | 10K 1／10W 1\％EHIP 0805 | 」 9＊ |
| F212 | A10265－19121 | 19．1K 0．25W $1 \% \mathrm{MF}$ | 」 9 |
| R213 | A1136B－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | 」 10 ＊ |
| R214 | A1136日－82511 | $8.25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0B05 | 」 10＊ |
| R215 | A11368－68121 | 68．1K 0．10W 1\％CHIP | 」10＊ |
| F216 | A11368－22681 | 226 OHM 0．10W 1\％CHIP 0805 | K 9＊ |
| R217 | A11371－3341 | 330 K 0．10W 5\％CHIP 0日Qड | 」 ＊$^{*}$ |
| R218 | A11368－10221 | 10．2K 0．10W $1 \%$ CHIP 0805 | K 10 |
| R219 | A11371－3333 | 33K 日．25W 5\％CHIP 1210 | 」 ${ }^{*}$ |
| R220 | A11368－90921 | 90.9 K 0．10W $1 \%$ CHIP 0805 | K 9＊ |
| R221 | A11368－10021 | 10K 1／10W 1\％LHIP 0a05 | K 10 |
| R222 | A11368－15831 | 159K 0．10W 1\％CHIP 0805 | K $9^{*}$ |
| R223 | A1 1368－10031 | 10ロK ロ．1W $1 \%$ CHIP 0日®5 | K $9^{*}$ |
| R224 | A113E日－15831 | 158 K 0．10W 1\％LHIP 0805 | K $9^{*}$ |
| R225 | A1136日－10031 | 100K $0.1 \mathrm{~W} 1 \% \mathrm{CHIP} 0805$ | L． $9^{*}$ |
| R226 | A11368－49921 | 49．9K 0．1W 1\％CHIP 0805 | K 9＊ |
| R227 | A11371－6B21 | 6．BK 日． 10 W 5\％CHIP 0805 | K $9^{*}$ |
| R228 | A11371－E814 | 680 OHM ロ．50W 5\％CHIP | M 1＊ |
| R229 | A11371－8211 | 日20 OHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7 ＊ |
| R231 |  | OPEN | L． $7 *$ |
| R232 | A11371－2223 | 2．2K D．25W 5\％CHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCAIPTION | MAP LOC． |
| R234 | C10513－5 | 1 K TOP ADJUST TRIMMER T／R | J 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％CHIP | 」 7 ＊ |
| R236 | A11371－8201 | 日2 OHM D． $10 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 」 7 ＊ |
| R237 | A11368－49902 | 499 OHM 0．125W 1\％CHIP | K $8^{*}$ |
| R238 | A11371－1213 | 120 OHM D． $25 \mathrm{~W} 5 \%$ CHIP | K 7 ＊ |
| R239 | A1136日－10703 | 107 OHM D． $25 \mathrm{~W} 1 \% \mathrm{CHIP}$ | K $\mathrm{B}^{*}$ |
| R240 | A11371－3333 | $33 \mathrm{~K} 0.25 \mathrm{~W} 5 \% \mathrm{CHIP} 1210$ | K 7 ＊ |
| R241 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | L 8＊ |
| R242 | A11371－4724 | 4．7K OHM 0．50W 5\％LHIF 2010 | L 7＊ |
| R243 | A11371－3333 | 33 K 0．25W 5\％LHIP 1210 | K $日^{*}$ |
| R244 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | K 8＊ |
| R245 | A113E日－75R03 | 75 OHM 0．25W 1\％CHIP 1210 | K $日^{*}$ |
| R246 | A1 1371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 」 $2^{*}$ |
| R247 | A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | 」 2＊ |
| R248 | A11371－1811 | 180 OHM D．10W 5\％CHIP | K $2^{*}$ |
| R250 | A11371－5R63 | $5.60 .25 \mathrm{~W} 5 \% \mathrm{CHIP}$ | 」 $2^{*}$ |
| R252 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K $4^{*}$ |
| F253 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／A | K $3^{*}$ |
| P254 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | L 4＊$^{*}$ |
| R255 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M $3^{*}$ |
| F256 | 103199－1 | D． 4 DHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | N 4＊ |
| R257 | 103189－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | N 3＊ |
| F259 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | D 3＊ |
| R260 | A11371－1501 | 15 DHM 0．10W 5\％CHIP | D 1＊＊ |
| R261 | A11371－1331 | 13 K OHM D． $10 \mathrm{~W} 5 \%$ ᄃHIP 8805 | E 2＊ |
| R262 | A11371－4701 | 47 OHM D．10W 5\％CHIP | E 2 ＊ |
| R263 | A11371－1811 | 1日6 OHM D．10W 5\％LHIP | E 2 ＊ |
| R265 | A11371－5R63 | 5.6 0．25W 5\％CHIP | E $2^{*}$ |
| R267 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E $4^{*}$ |
| R26日 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F $3^{*}$ |
| R269 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 4＊$^{*}$ |
| R270 | 103198－1 | 0．4 OHM 1W 5\％ 2512 T／R | ［ $3^{*}$ |
| R271 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 4 ＊ |
| R272 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A11368－60432 | $604 \mathrm{~K} \mathrm{OHM} \mathrm{D} 125 \mathrm{~W} 1 \$.$% CHIP 1206$ | E $8^{*}$ |
| R275 | A11368－51111 | 5.11 K OHM D． $10 \mathrm{~W} 1 \%$ CHIP D日05 | E $日^{*}$ |
| R276 | A）1368－10021 | 10K 1／10W 1\％CHIP 0日05 | E $B^{*}$ |
| R277 | A11368－10021 | 10K 1／10W 1\％CHIP 0885 | E $8^{*}$ |
| R278 | A11368－90921 | 90．9K $0.10 \mathrm{~W} 1 \%$ CHIP BEQ5 | L 9＊ |
| R279 | A11368－10031 | 100K $0.1 \mathrm{~W} 1 \%$ LHIP 0805 | E $7^{*}$ |
| R280 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | E 8＊＊ |
| R281 | A11371－6814 | E日Q OHM D．50W 5\％CHIP | M 1 ＊ |
| R2日2 | A1136B－10821 | 10K 1／10W 1\％LHIP 0805 | D $8^{*}$ |
| R283 | A11368－10031 | 100K D．1W $1 \%$ CHIP 0805 | E $\mathrm{B}^{*}$ |
| R2日4 | A1136B－20023 | 20K D．25W 1\％ERIP 1210 | F $9^{*}$ |
| R285 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | F 8＊ |
| R286 | A11368－10031 | 100K D． $1 \mathrm{~W} 1 \%$ CHIP D日05 | L 10＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## INACTIVE

For Reference Use Only

PARTS LIST

| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| :---: | :---: | :---: | :---: |
| R287 | A1136日－15831 | 15BK D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R288 | A11358－15831 | 158K 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A11368－10031 | 10日K ロ．1W $1 \%$ CHIP 0日05 | K 10＊ |
| R290 | A11358－57621 | 57．6K 0．10W 1\％CHIP 0805 | N 3＊ |
| R291 | A1136日－22601 | 226 OHM 0．10W 1\％CHIP 0805 | N 3＊ |
| R292 | A1136日－50432 | S84K OHM Q． $125 \mathrm{~W} 1 \% \mathrm{CHIP} 1206$ | 」 ＊$^{\text {a }}$ |
| R293 | A11368－10021 | 10 K 1／10W 1\％CHIP 0805 | K 9＊ |
| R294 | A11371－8201 | 82 OHM 0．10w 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | B20 OHM 0．10W 5\％CHIP | 」 7＊ |
| R295 | A1136日－10021 | 10K 1／10W 1\％CHIP 0B05 | K 9＊ |
| R297 | A11368－61911 | 6．19K 0．10W 1\％CHIP 0日05 | K 10 |
| R298 |  | OPEN | K 10 |
| R299 | A11371－2R02 | 0.0 OHM JUMPER CHIP 1206 | K 8＊ |
| R300 | 103193－1 | 0． 4 OHM 1W 5\％ 2512 T／R | D $6^{*}$ |
| R301 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | 」 6＊ |
| R302 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T ／R | K $5^{*}$ |
| R303 | 103193－1 | 0． 4 OHM 1W 5\％ 2512 T／R | L 6＊ |
| R304 | 103199－1 | 0． 4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | M 5＊ |
| R305 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 6＊ |
| R306 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 5＊ |
| 8307 | 103198－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R306 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | F 6＊ |
| P309 | 103193－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R310 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | G 6＊ |
| R311 | 103199－1 | Q． 4 OHM 1W 5\％2512 T／R | G 6＊ |
| R312 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | I $\mathrm{E}^{*}$ |
| R313 | A1136日－10021 | 10K 1／10W 1\％CHIP 0 B05 | G 7＊ |
| R314 | A11371－3341 | $330 K 0.10 W 5 \%$ CHIP 0805 | G 7＊ |
| R315 | A1136日－51111 | 5.11 K OHM Q． $10 \mathrm{~W} 1 \%$ CHIP 0805 | H 7＊ |
| R315 | A11388－10011 | 1 K ロ． $10 \mathrm{~W} 1 \%$ CHIP 0805 | M 10＊ |
| R317 | A11371－3934 | 39K OHM 区．50W 5\％CHIP 1210 | N 8 |
| R318 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | N |
| R319 |  | OPEN | M 10＊ |
| ค322 | A11371－1013 | 100 OHM ．25W 5\％ 1210 SMT T／R | L 9 |
| R323 | A11371－0RD2 | 0．$\triangle$ OHM JUMPER CHIP 1205 | G 8 |
| R400 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | D $3^{*}$ |
| R401 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 4＊$^{*}$ |
| R402 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | K 3＊ |
| R403 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | L． ＊$^{*}$ |
| R404 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 3＊ |
| R405 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 4＊ |
| R406 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | N 3＊ |
| R407 | 103199－1 | D． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E $4 *$ |
| R408 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 3＊ |
| R409 | 103198－1 | 0．4 OHM 1W 5\％ 2512 T／R | G 4＊ |
| R410 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 3＊ |
| R411 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | H $4^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

INACTIVE
For Reference Use Only
THESE DPAWINGS AND SEEEIFICATIONS ARE THE

OF APPARATUS OR DEVICES WI THOUT PERMESSION．

| DRAWN | DK | 09／10／99 | DWG．NO | $127354-3{ }^{\text {SHEET } 17 \text { OF } 21}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AOJ | MD390D8 |  |  |  |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N | DESCRIPTION | MAP LOC． |
| R412 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | $13^{*}$ |
| R413 | A11388－10021 | 10K 1／10W 1\％EHIP 0805 | E 7＊ |
| R414 | A11371－3341 | 330K 0．10W 5\％LHIP 0805 | E 7＊ |
| R415 | A11368－51111 | 5.11 K OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | E 7＊ |
| R416 | A11388－10811 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R417 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | K 7 |
| R418 | A11371－3934 | 39 K OHM 0．50W 5\％CHIP 1210 | $k$ \％ |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5.6 DHM 1W 5\％CHIP 2512 | H 1＊ |
| F421 | A11371－5R65 | 5． 6 OHM 1W 5\％CHIP 2512 | H 1＊ |
| R422 | A11371－1813 | 10日 OHM．25W 5\％ 1210 SMT T／R | 」 9 |
| R423 | A11371－0R02 | Q．$\triangle$ OHM JUMPER CHIP 1206 | F 8 |
| R500 | A1 1 358－10021 | 10K 1／10W 1\％CHIP 0805 | A 3 |
| R501 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R502 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | B 2 |
| R503 | A11358－10021 | 10K 1／1日W 1\％CHIP 日日05 | B 2 |
| R504 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| F506 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R508 |  | OPEN | C 2 |
| R600 | A $1136 \mathrm{~B}-10021$ | 18K 1／1日W 1\％EHIP 0805 | A 1 |
| P60 1 | A11368－10021 | 10K 1／10W 1\％CHIP 0B05 | A 1 |
| R602 | A11358－10021 | 10K 1／10W 1\％CHIP 0BQ5 | A 2 |
| R603 | A1136B－10021 | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R604 | A $11368-10021$ | $10 K 1 / 10 W 1 \%$ CHIP 0B05 | A 1 |
| F606 | A1136B－10021 | 10 L 1／10W $1 \% \mathrm{CHIP}$ D日05 | B 2 |
| R507 | A11371－8205 | 82 OHM 1W 5\％CHIP 2512 | A 1 |
| R608 |  | OPEN | C 1 |
| 51 | 102488－1 | SPDT HORIZ SLIDE | L 10 |
| S2 | ［ 7325－1 | 2P 2 POS．PC SLIDE SW． | L 10 |
| TB1 | 102475－1 | BLOCK， 5 POS TEAMINAL | A 2 |
| TP38 | C 9896－9 | TEST POINT LOOP | K 1 |
| TP39 | ᄃ 9896－9 | TEST POINT LOOP | N 7 |
| ப1 | ᄃ 5095－2 | POS． 15 VOLT REG． | H 10 |
| U1X | ［．9918－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |
| $\sqcup 2$ | C 5096－0 | NEG． 15 VOLT REG． | H 9 |
| $\sqcup 2 \times$ | C 9918－1 | TO220 VERT CLIP－ON HEATSINK | H 9 |
| ப3 | 102486－1 | OPTO BJT NPN SOIC－B CTR $=100 \%$ | N 10 |
| $\sqcup 4$ | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | I 9 |
| U5 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |
| ப100 | 102723－2 | OPTO CELL ON＝500 DHM | M 9 |
| ப101 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |
| ப102 | C 9038－8 | COMPARATOR，QUAD LM339D SO－14 | N 9 |
| ப184 | C 9038－8 | COMPARATOR，QUAD LM339D SO－14 | G 7 |
| 4105 | C 8262－5 | MC3307日D DUAL LO NOISE OP AMP | F 7 |
| ப106 | 1276日3－1 | SENSOR，CE THERMAL | N 6 |
| ப200 | 102723－2 | OPTO CELL ON＝50日 OHM | K 9 |
| U201 | ᄃ 9012－3 | MC33079D QUAD LD NDISE OP AMP | J 10 |
| ப202 | C 9®38－8 | COMPARATOR，QUAD LM339D S0－14 | K 9 |
| ப204 | C 3038－8 | COMPARATOR，QUAD LM339D SO－14 | E 7 |
|  |  |  |  |

## INACTIVE

For Reference Use Only



## Component Map

for use with
Main PWA 127354-3




| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A10日2日－7 | $6-32 \times .625$ PCE CAPTIVE STUD | 日 | HWG．HW1ם．HW1 1．HW1 2，HW13．HW1 4， |
|  |  |  | HW15．HW16 |
| A10265－19121 | 19.1 K 日． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | 2 | R112．R212 |
| A10266－2A74 | 2．7 OHM 2W 5\％CF | 1 | R158 |
| A10434－104」D | D． 1 MF 250V 5\％MTL POLY | 2 | C118，C218 |
|  |  |  |  |
|  |  |  |  |
| A11368－10011 | 1K D．10W $1 \%$ CHIP 0805 | 日 | R101，R106．R110．R201，R206． |
|  |  |  | R210．R316．R416 |
| A11368－10021 | 10K 1／10W 1\％CHIP 0日ロ5 | 31 | R9，R104，R1日7，R108，R111，R121， |
|  |  |  | R176，R177，R1日2，R1日5，R193， |
|  |  |  | R196，R204，R211，R221，R276， |
|  |  |  | R277，R2日2，R2日5，R293，R296， |
|  |  |  | R313，R413，R500，R501，R502， |
|  |  |  | R503，R600，R601，R602，R603， |
| A11368－10031 | 100K 日．1 W $1 \%$ CHIP 0日ロ5 | 15 | R25，R30，R31，R123，R125，R179， |
|  |  |  | R1日3．R1日6．R1日9，R223．R225． |
|  |  |  | R279，R2日3，R2日6，R2日3 |
| A1136日－12121 | 12.1 K OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0885 | 1 | R21 |
| A1136日－13703 | 137 OHM 0．25W 1\％CHIP | 2 | R139．R239 |
| A1 1368－15831 | 15日K 0．10W 1\％CHIP 0805 | 日 | R122，R124，R1日7，R1日8，R222， |
|  |  |  | R224．R2日7．R2日8 |
| A11368－19122 | 19．1K 0．125W 1\％CHIP 1205 | 2 | R109．R209 |
| A11368－20011 | 2K D．10W 1\％CHIP 0805 | 4 | R504，R506，R604，R606 |
| A $11358-20021$ | 20K ロ．10W 1\％CHIP B日B5 | 3 | R27．R151．R251 |
| A11388－20023 | 20K 0．25W 1\％CHIP 1210 | 3 | R10．R184． R 284 |
| A11368－22601 | 226 OHM 日．10W 1\％［HIP 0805 | 4 | R116．R191．R216．R291 |
| A11358－39231 | 392K 0．10W 1\％CHIP D805 | 6 |  |
| A11388－49901 | 499 DHM 日．10W $1 \%$ CHIP 0805 | 2 | R103．R203 |
| A11368－49902 | 499 OHM 0．125W 1\％ 1206 T／R | 2 | R137．R237 |
| A 11368 －49921 | 43．SK 日． $1 \mathrm{~W} 1 \%$ LHIP 0805 | 2 | R126．R226 |
| A11368－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | 日 | R113．R175．R197，R213．R275． |
|  |  |  | R297．R315．R415 |
| A11368－57621 | 57．6K 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 4 | R20．R24，R190，R290 |
| A11368－60432 | 604K OHM 0．125W 1\％LHIP 1206 | 5 | R149．R174，R192，R249．R274． |
|  |  |  | R292 |
| A11368－68111 | 6.81 K OHM 0．10W $1 \%$ CHIP 0805 | 2 | R118．R218 |
| A1136日－68121 | 68.1 K 日．1日W 1\％CHIP | 3 | R12．R115．R215 |
| A11368－69811 | 6．98K OHM 0．10W 1\％CHIP 0805 | 1 | R5 |
| A11368－71511 | $7.15 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | 1 | R1日 |
| A1136日－82511 |  | 3 | R17．R114．R214 |
| A11368－90921 | 90．9K 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 4 | R120，R178．R220．R278 |
| A1136日－93111 | 9．31K 日． $1 \mathrm{~W} 1 \%$ CHIP D805 | 1 | R6 |
| A11369－102．2 | D． $0 \mathrm{D} 1 \mathrm{LF} 50 \mathrm{~V} 5 \% \mathrm{NPD} \mathrm{MLC} 0805$ | 2 | С134．C234 |
| A11369－120k2 | 12PF 50V 10\％NPO 0805 T／R | 5 | C50日，C501．c502．C60日，C601，C502 |
| A $11389-270<2$ | 27PF 50V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | 2 | に1ロ7．С207 |
| A11369－33012 | 33PF 50V 5\％NPD MLC 0805 | 2 | C142．C242 |
| A11369－471K2 | 470PF 50V 10\％NPD 0日05 T／R | 4 | C110．C141．C210，C241 |
| A11371－0R01 | В OHM 日． 1 W CHIP ロ日ర5 | 4 | R199，R299，R323，R423 |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DAAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INL．AND shall not be reproduced．copied．or used as the basis for the manufacture or sale of apparatus dr devices without permission

| $\begin{gathered} \text { SIZE } \\ \mathrm{A} \end{gathered}$ | DWG NO．$127451-4$ |  |  | $\begin{gathered} \text { REV } \\ \text { A } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| SCAL | none | PROJ NO．MD3gede | SHEET 2 OF 23 |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－R221 | 0． 22 OHM 日．10W 5\％CHIP 0805 | 3 | R14．R15．R33 |
| A11371－1011 | 100 OHM 0．10W 5\％CHIP 0805 | 3 | R13．R147，R247 |
| A11371－1013 | 100 OHM ． $25 \mathrm{~W} 5 \% 1210$ SMT T／R | 2 | R322，8422 |
| A11371－1022 | 1 K D． $125 \mathrm{~W} 5 \%$ CHIP 1206 | 1 | R8 |
| A11371－1213 | 120 OHM 0．25W 5\％CHIP | 6 | R138．R144．R145，R238．R244．R245 |
| A11371－1331 | 13 K OHM 日． $10 \mathrm{~W} 5 \%$ LHIP 0日05 | 4 | R146，R161，R246，R261 |
| A11371－1501 | 15 OHM 0．10W 5\％LHIP | 5 | R160，R260，R605，R689，R610 |
| A11371－1811 | 180 OHM 0．10W 5\％CHIP | 4 | R148，R163．R248，R263 |
| A11371－2223 | 2． 2 K 日．25W $5 \%$ CHIP 1210 | 2 | R132．R232 |
| A11371－3313 | 330 OHM 日．25w 5\％CHIP | 2 | R4．819 |
| A11371－3333 | 33 K Q． $25 \mathrm{~W} 5 \%$ CHIP 1210 | 6 | R119，R140，R143，R219，R240，R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP D805 | 7 | R3，R11，R26．R117．R217，R314 |
|  |  |  | R 414 |
| A11371－3923 | 3．9K 0．25w $5 \%$ CHIP | 3 | A16．R135．A235 |
| A11371－3934 | 39K OHM 日．50W 5\％CHIP 1210 | 4 | R317，R318，R417，R418 |
| A11371－4701 | 47 OHM 0．10W 5\％［HIP | 2 | R1处，R262 |
| A11371－5月63 | 5．6 D．25W 5\％CHIP | 4 | R150，R165，R250，R265 |
| A11371－5月65 | 5． 5 OHM 1W5\％［HIP 2512 | 2 | R420，R421 |
| A1 1371－6814 | 680 OHM D．50W 5\％［HIP | 6 | R105．R128．R1日1，R205．R228．R2日1 |
| A11371－6日21 | 6．日K 0．10W 5\％CHIP 8805 | 2 | R127．R227 |
| A11371－7511 | 750 DHM D．10W 5\％CHIP | 3 | R2日，R133，R233 |
| A11371－8201 | 82 OHM 0．10W 5\％CHIP | 4 | R136．R194，R236，R294 |
| A11371－8205 | 82 OHM 1 W 5\％CHIP 2512 | 1 | R687 |
| A11371－8211 | 820 OHM D．10W 5\％CHIP | 6 | R129，R141，R195，R229，R241，R295 |
| A1137日－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | 1 | WP1 |
| A11379－C050U | WIRE， 15 日LU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A1 1427－103K2 | $0.01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | 6 | ᄃ109．C111．c115．c209．C211．c215 |
| A11427－103K5 | D． $\mathrm{D} 1 \mathrm{MF} 5 \mathrm{VV} 5 \% \times 7 \mathrm{R} 1206$ | 2 | ᄃ143．C243 |
| A11427－104K2 | D． 1 MF 50V 10\％0日05 | 30 | C6，C7，ᄃ12．c24．C25．c28．c29． |
|  |  |  | ᄃ122．C126．C127，ᄃ128．C129， |
|  |  |  | C130．C131，С132，С133．C139， |
|  |  |  | ᄃ222．C226．c227．ट228．C229． |
|  |  |  | ᄃ230．C231．С232，С233．C239， |
|  |  |  | ᄃ505．5506． 5605 |
| A11427－123K2 | D．012 MF 50V 10\％LHIP | 2 | ᄃ112．c212 |
| A11427－272K2 | 270日PF 50V 10\％LHIP 0805 | 2 | ［117．C217 |
| A11427－472K2 | 4700PF 50V 10\％×7R 0日05 | 4 | C116．C119．C216．C219 |
| A12125－3140K | WIRE． 22 WHT $3 / 15 \times 14 \times$ FAST | 1 | WP6 |
| C 2851－1 | 1 N 40 O 4 SILICON RECT | 7 | D1．D2．D3，D4，D6．D7．D10 |
| C 3510－2 | CHOKE，470பH 10\％AXIAL | 4 | L100．L101．L200．L201 |
| C 3549－0 | DIODE ZENER，10V． 1 N524日B | 1 | D日 |
| C 3679－5 | 33LF 50V 20\％VERT ELECT | 1 | C31 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4．C5 |
| C 5095－2 | POS． 15 VOLT REG． | 1 | U1 |
| C 5095－0 | NEG． 15 VOLT REG． | 1 | U2 |
| C 5362－6 | $2.2 \mathrm{MF} 5 \Omega \mathrm{~V}$ VERT | 1 | ᄃ27 |
| C 5419－3 | SHUNT，． $225^{\prime \prime}$ SQ POST 2 POS | 2 | Z1日ロX，z20日x SEE NOTE 15 |
| C 6802－0 | 47 MF 50 V AX CERM | 2 | C102，ट202 |
| C 6806－1 | Q． 01 MF 10日V AXIAL CER T／R | 2 | C610．C611 |
|  |  |  |  |

## UNCONTROLLED

UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS INCLUDING ASSOCIATED ELEETRONIC REPRODUCTIONS ARE FOR REFERENCE ONLY
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INC．AND SHALL NOT EE REPRQDUCED．COPIED．OR USED as the basis for the manufacture or sale OF APPARATUS QR DEVICES WITHOUT PERMISSION

| $\begin{gathered} \hline \text { SIZE } \\ A \end{gathered}$ | DWG NO． $127451-4$ |  |  |  | $\begin{gathered} \text { REV } \\ \text { A } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SCALE | NONE | PROJ NO．MD390D0 | SHEET | 3 OF |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| C 7091－9 | 0． 33 MF 50 V CHIP 1206 | 3 | C22．C14日． 2240 |
| C 7325－1 | 2 P 2 POS．PC SLIDE SW． | 2 | 51.52 |
| C 744日－1 | MMET3904［HIP NPN | 6 | Q100， $0101,0129,0200,0201,0229$ |
| C 8262－5 | MC3307日D DUAL LO NOISE OP AM | 4 | ப4． 45.1105 .4205 |
| C 8576－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 1 | C26 |
| ᄃ 9012－3 | MC33079D QLAD LO NOISE OP AM | 3 | ப101．Н201，ப500 |
| C 9038－8 | COMPARATOA．QUAD LM339D 50－1 | 4 | ப102．ப104，ப2®2，ப204 |
| C 9157－6 | 1 10ULF $16 \mathrm{~V} 20 \%$ NP ELEC RAD T／ | 2 | C123．C223 |
| C 3202－0 | 2 PIN SGL ROW VERT GOLD HDA | 2 | 2100．2200 |
| ［ 9252－5 | 2N3904 40V NPN TRANSISTOR | 2 | 0104．0204 |
| C 9283－0 | DIODE． $1 \mathrm{NG} 14 / 1 \mathrm{~N} 4148 \mathrm{SOT}-23 \mathrm{~S}$ | 56 | D9，D13．D101．D102．D103．D104， |
|  |  |  | D105，D106，D107，D108，D109， |
|  |  |  | D110．D111，D112，D113．D116． |
|  |  |  | D117．D118，D119，D120．D121， |
|  |  |  | D122，D123，D124，D125，D126， |
|  |  |  | D127．D128．D129，D130．D201． |
|  |  |  | D202．D203，D204，D205，D206， |
|  |  |  | D207，D208，D209，D21日，D211， |
|  |  |  | D212．D213．D216．D217．D218． |
|  |  |  | D221，D222，D223，D224，D225， |
|  |  |  | D226．D227．D228，D229，D230 |
| C 9896－9 | TEST POINT LOOP | 2 | TP38．TP39 |
| C 9918－1 | TO220 VERT CLIP－QN HEATSINK | 2 | U1X． $\mathrm{L} 2 \times$ |
| C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－ | 5 | 0102．0109．0111．0202．0209，0211 |
| C10196－1 | 2．2MF $50 \mathrm{~V} 20 \%$ AAD $T / R$ | 4 | ᄃ121．C124，C221，ᄃ224 |
| C1020日－4 | 10 O MF $25 \mathrm{~V} 20 \%$ VERT ELEC | 2 | C105，С205 |
| C10422－1 | DIODE， 3 A 40 V 1N54D4 AXIAL | 4 | D114．D115．D214，D215 |
| C10513－5 | 1 K TOP ADJUST TRIMMER T／R | 2 | R134．R234 |
| D 8917－3 | 820日UF 11 日VDC ELECTROLYTIC | 2 | C20．［21 |
| 5 6295－1 | TAPE，KAPTON（POLYIMIDE） $1 / 2^{\prime \prime}$ | $\square$ | TAPE |
| 101016－1 | LBL，BARCODE， | 1 | 2 |
| 101031－1 | 250 FASTON．ALTO INSERTABLE | 3 | WP4，WP5，WP7 |
| 101571－1 | HDR 2 PQS 1 CTR MTA SHRD | 1 | 14 |
| 121573－1 | HDR 4 PQS 1 CTR MTA SHRD | 1 | J2 |
| 101993－1 | JACK，EP4 COND MODULAR R／A | 1 | J5 |
| 102438－101K2 | 100PF 200V 10\％NPO 0805 | 6 | C104．C120．C135．C204．C220．C235 |
| 1®243日－221K2 | 220PF 200V 10\％NPQ 0805 | 2 | C504，CED4 |
| 10243日－560k2 | 56PF 200V 10\％NPD 0日05 | 2 | С106，С206 |
| 10243日－820K2 | 82PF 200V 10\％NPO 0805 | 4 | C10日．С138．С208．С238 |
| 122465－1 | 47 HF $50 \mathrm{~V} 20 \%$ RADIAL $T / R$ | 2 | C1ロ1，C2D1 |
| 102466－1 | 10UF 250V 20\％RADIAL T／R | 1 | C1 |
| 102467－1 | 22MF $25 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 4 | C103．c203． 5503.5603 |
| 1园2478－1 | INDUCTOR，2．75LH 11A RADIAL | 2 | L1日2．L2Q2 |
| 102471－2 | HDR．12POS． 1 CTR SGL ROW | 1 | 1502 |
| 102472－3 | CONN， 12 POS 1 CTR SGL ROW | 1 | J3 |
| 102473－1 | SPEAKON． 4 POLE PCB HORZ | 2 | 」10日，」200 |
| 102475－1 | BLOCK， 5 POS TERMINAL | 1 | TB1 |
| 102476－1 | LED．SMT R／A GREEN | 3 | E1，E101，E201 |
| 102477－1 | LED，SMT R／A RED | 4 | E100，E102，E200，E202 |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y［M AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS ARE FOR REFERENCE ONLY．
these drawings and specifications are the PROPERTY OF EROWN INTERNATIONAL，INE．AND Shall not be reproduced．Copied．or used as the basis for the manufacture or sale of apparatus dr devices without permission


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| 10247日－1 | TRIAC DRIVEA S日S QV THRESH | 2 | 0132．0232 |
| 102479－1 | PWR MJD112 NPN DARLINGTON 10 | 3 | Q1． 92.03 |
| 102480－1 | FET，N－CH $25 V 50 \mathrm{MA}$ SOT－23 | 2 | Q133， 0233 |
| 1024日1－1 | NPN 25V LOW NOISE SOT－23 | 2 | 0108．0208 |
| 102483－1 | PNP 300V 500MA SOT－23 | 2 | 9103． 2203 |
| 102486－1 |  | 1 | $\pm 3$ |
| 102570－3 | HS ASM．T1 ISOLATED CH2．， | 1 | HS4 |
| 102572－3 | HS ASM．T1 NON－ISOLATED CH2． | 1 | H52 |
| 102579－1 | STAND．1／4 AD SWAGE AL | 2 | HW25．HW26 |
| 102595－3 | POT．5K LIN 21 DNT 12MM HORI | 2 | R100．R200 |
| 102608－1 | SPACER．6X． 187 LONG ALUMINUM | $\theta$ | HW1．HW2．HW3．HW4．HW5．HW6．HW7， |
|  |  |  | HW日 |
| 102723－2 | OPTO CELL ON＝500 OHM | 2 | ப100． 4200 |
| 103180－1 | BUMPER． $0.4^{\prime \prime}$ TALL BLK W／ADH | 3 | 7 |
| 103191－1 | 0．47UF 25U $121020 \% 50 \mathrm{~V}$ | 4 | C10日，C144，C20日，C244 |
| 103192－1 | NPN 300V 500MA 50MHZ S0T－223 | 4 | 0107，0110，0207， 0210 |
| 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | 4 | 0105.0120 .0205 .0220 |
| 103199－1 | D． 4 OHM 1 W $5 \% 2512 \mathrm{~T} / \mathrm{A}$ | 36 | R152，R153，R156，R157 |
|  |  |  | R159，R157，R168，R171，R172． |
|  |  |  | R252，R253，R256，R257，R259． |
|  |  |  | R267，R268，R271，R272，R300， |
|  |  |  | $R 301, R 302, R 305, R 306, R 307$. |
|  |  |  | R308，R311，R312，R40日，R401， |
|  |  |  | R402，R405，R406，R407，R408， |
|  |  |  | R411．R412 |
| 10321日－1 | 2．2UF 160 V RADIAL T／R | 4 | С136．C137．C236，С237 |
| 103331－N050R | WIRE， 16 ELK／WHT TA日 $\times 5 \times$ T | 1 | WP2 |
| 10341日－103k2 | 01 MF 10 V ，10\％$\times 7 \mathrm{R}$ 0日05 SMD | 1 | ［2 |
| 123435－7060日 | SCREW， $6-32 \times 5$ TORX PNHD SEM | 2 | HW27．HW28 |
| 125106－1 | MACSD 日 AMP 40ロV TRIAC | 2 | Q131．0231 |
| 125242－1 | CAP．625ID $\times 1^{\text {² }}$ VINYL | 1 | 3 |
| 125478－1 |  | 2 | R142，R242 |
| 125482－1 | ADHESIVE LOCTITE 384 OUTPUT | $\square$ | 5 |
| 125493－1 | ACTIVATOR LOCTITE＂OUTPUT＂ | $\square$ | 6 |
| 12550日－1 | 1 QLF SQVDC ELECTAOLYTIC SMD | 2 | C3，c30 |
| 126317－1 | REL，30A 24 V SPST PCB W／FAST | 2 | K100，K200 |
| 126825－1 | SILICONE．CLEAR 3OZ SYRINGE | $\square$ | 4 |
| 126929－1 | 1／4＂TRS／XLA CQMED PCB VERT | 2 | 1500，1600 |
| 127229－1 | RES． 1100 OHM 5W 5\％THICK FI | 1 | R1 |
| 127230－1 | RES， 2200 OHM 3W 5\％THICK FI | 1 | R2 |
| 127299－1 | 47UF 6． $3 \mathrm{~V} 20 \% \mathrm{NP}$ AL -M ELECT | 4 | ［113．C114，C213，［214 |
| 127450－1 | PWE．CE1日Q日／CE200ロ MAIN／INPU | 1 | 1 |
| 127683－1 | SENSER．CE THERMAL | 2 | ப106． 1206 |
| 132491－1 | NUT．6－32 HEX NYLON LOCK | 日 | HW1 7．HW18，HW19，HW2发，HW21， |
|  |  |  | HW22．HW23，HW24 |
| 133695－1 | HS ASM，CE1000 ISOLATED CH1 | 1 | HS3 |
| 133696－1 | HS ASM，CE10日Q NON－ISOLATED | 1 | HS 1 |
|  |  |  |  |

UNCONTROLLED
UNLESS DTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES QF THESE DOCUMENTS
INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INC．AND SHALL NOT EE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale OF APPARATUS DR DEVICES WITHOUT PERMISSION．

| SIZE <br> $A$ | DWG NO． | REV | A | A |
| :---: | :--- | :--- | :--- | :--- |
| SCALE NONE | PROJ NO．MDJGODE | SHEET | 5 OF 23 |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 102466－1 | 10UF 250V 20\％RADIAL T／R | 」 8 |
| C2 | 10341日－103k2 | 0． 01 MF 10 l | F 9＊ |
| C3 | 12550日－1 | 1日UF 50VDC ELECTROLYTIC SMD | I 8 |
| C4 | C 4477－3 | 470 MF 35V VERT | G10 |
| C5 | C 4477－3 | 470 MF 35 V VERT | G 9 |
| С6 | A11427－1日4K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \% 0005$ | H 10＊ |
| C7 | A11427－1日4K2 | 0． 1 MF 50 V 10\％0日05 | H 9＊ |
| C12 | A11427－1达 | 0． 1 MF 50V 10\％0805 | I 9＊ |
| C20 | D 日917－3 | 日20日பF 11日VDC ELECTROLYTIC | C 9 |
| C21 | D 日917－3 | 820ロUF 110VDC ELECTROLYTIC | B 9 |
| C22 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | N 9＊ |
| C24 | A11427－104K2 | 0.1 MF 50 V 10\％0日05 | N 9＊ |
| C25 | A11427－1日4K2 | 0．1 MF 50V 10\％日日05 | 0 9＊ |
| C26 | C 日575－8 | 10ロ MF 35V 10\％ELEC | I 9 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10 |
| C28 | A11427－1日4K2 | 0.1 MF 50V 10\％日日05 | 」 9＊ |
| C29 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | I 9 ＊ |
| C30 | 12550日－1 | 10UF 50VDC ELECTROLYTIC SMD | I 8 |
| C31 | C 3579－5 | 33LF 50V 20\％VERT ELECT | I 10 |
| C1明 | 103191－1 | 0.47 UF Z5U 1210 20\％50V | N 9＊ |
| C181 | 102465－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| C102 | C 6日®2－6 | 47 MF 50 V AX CERM | M 9 |
| C103 | 102467－1 | 22MF 25V 20\％RAD T／A | M 9 |
| C184 | 10243日－101k2 | 100PF 200V 10\％NPG 0805 | M 9＊ |
| C105 | C1020日－4 | 108 MF 25V 20\％VERT ELEC | L 9 |
| C186 | 10243日－56日K2 | 56PF 200V 10\％NPO 0805 | L 9＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO 0805 T／A | L 9＊ |
| C108 | 10243日－820K2 | 82PF 20ロV 10\％NPO D日⿹勹 | L 10＊ |
| C189 | A11427－183K2 | 0． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | H 6＊ |
| C110 | A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | M 7＊ |
| C111 | A11427－1日3K2 | 0． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 日日05 | N $8^{*}$ |
| C112 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | 0 8＊ |
| C113 | 127299－1 | 47பF 6．3V 20\％NP ALDM ELECT SMT T／A | N 8 |
| C114 | 127299－1 | 47UF 6．3V 20\％NP ALUM ELECT SMT T／A | N 8 |
| C115 | A11427－183K2 | 0． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0805 | N 8＊ |
| C116 | A11427－472K2 | 470日PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 2700PF 50V 10\％CHIP 0日05 | I 7＊ |
| C11日 | A1日434－1日4JD | Q． 1 MF 250V 5\％MTL POLY | I 8 |
| C119 | A11427－472K2 | 470日PF 50V 10\％x7R 0805 | I 7＊ |
| C120 | 10243日－101K2 | 10ロPF 200V 10\％NPO 0805 | I 7＊ |
| C121 | C1日196－1 | 2．2MF 50V 20\％RAD T／R | G 8 |
| C122 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | F 8＊ |
| C123 | C 9157－6 | 1日QUF 16V $20 \% \mathrm{NP}$ ELEC RAD T／R | F 8 |
| C124 | C10196－1 | 2．2MF 50V 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | N 10＊ |
| C127 | A11427－1日4K2 | 0． 1 MF 50V 10\％0日05 | N 9＊ |
| C12日 | A11427－1日4K2 | 0．1 MF 50V 10\％0日05 | M 10＊ |
| C129 | A11427－1日4K2 | 0． 1 MF 50V 10\％0日05 | M 9＊ |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND shall not be reproduced．copied．or used as the basis for the manufacture or sale of apparatus dr devices without permission

REV
A

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C130 | A11427－1日4K2 | Q． 1 MF 50V 10\％0日05 | H 8＊ |
| C131 | A11427－104K2 | 0． $1 \mathrm{MF} 50 \mathrm{~V} 10 \% 0805$ | H 7＊ |
| C132 | A11427－104K2 | 0.1 MF 50V $10 \% 0805$ | F 7＊ |
| C133 | A11427－1日4K2 | Q． 1 MF 50V 10\％0日05 | F 8＊ |
| C134 | A11369－102J2 |  | M ${ }^{\text {＊}}$ |
| C135 | 10243日－101K2 | 1日QPF 200V 10\％NPO 0805 | N 7＊ |
| C136 | 10321日－1 | 2．2UF 150V RADIAL T／R | I 7 |
| C137 | 103210－1 | 2．2UF 150V RADIAL T／R | I 7 |
| C13日 | 10243日－820k2 | 日2PF 20日V 10\％NPD 0日05 | M 7＊ |
| C139 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V LHIP 1206 | L 9 |
| C141 | A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | N 10 |
| C142 | A11369－33DJ2 | 33PF 50V 5\％NPO MLC 0日日5 | M 10 |
| C143 | A11427－183K5 | ロ． 01 MF 50 V 5\％$\times 7 \mathrm{R} 120 \mathrm{~b}$ | M 9＊ |
| C144 | 103191－1 | 0.47 UF Z5ப 1210 20\％50V | G 7＊ |
| C20日 | 103191－1 | $0.47 \sqcup F$ z5ப 1210 20\％50V | K 9＊ |
| C201 | 102465－1 | 47UF 50V 20\％RADIAL T／R | 」 9 |
| C202 | C 6日02－8 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／A | K 9 |
| C204 | 10243日－101K2 | 1日0PF 200V 10\％NPO 日805 | 」 9 ＊ |
| C205 | C182日日－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| c206 | 10243日－5日6K2 | 56PF 20日V 10\％NPO D日05 | 」 ＊$^{\text {¢ }}$ |
| C207 | A11369－270K2 | 27PF 50V 10\％NPG 0805 T／R | 」 $9 *$ |
| C288 | 10243日－820K2 | 82PF 20日V 10\％NPO 0805 | 」 10＊ |
| c209 | A11427－1日3K2 | D． 01 MF 50 V 10\％CHIP D日Q5 | H $3^{*}$ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO 0日05 T／R | K 7＊ |
| C211 | A11427－183K2 | 0． $01 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0日05 | K 7＊ |
| C212 | A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | L B＊$^{*}$ |
| C213 | 127299－1 | 47UF 6．3V 20\％NP ALUM ELECT SMT T／A | K 8 |
| C214 | 127299－1 | 47UF 6．3V 20\％NP ALUM ELECT SMT T／A | K 8 |
| C215 | A11427－103K2 | 0.01 MF 50V 10\％0805 | K $8^{*}$ |
| C216 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 」 2＊ |
| C217 | A11427－272K2 | 2700PF 50V 10\％CHIP 0日05 | D $1^{*}$ |
| C218 | A10434－104JD | 0.1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | E 1＊ |
| C220 | 10243日－101K2 | 100PF 200V 10\％NPO 0805 | D 2＊ |
| C221 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \%$ RAD T／R | E 8 |
| C222 | A11427－1日4K2 | Q． $1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 日日 05 | E 8＊ |
| C223 | ［ 9157－6 | 10DUF 16V 20\％NP ELEC RAD T／R | F 9 |
| C224 | C10196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 」 9 |
| C226 | A11427－1日4K2 | 0．1 MF 50V 10\％日e日5 | K 1日＊ |
| C227 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | K 9＊ |
| C22日 | A11427－1日4K2 | 0．1 MF 50V 10\％0日05 | 」 10＊ |
| ᄃ229 | A11427－104K2 | 0．1 MF 50V 10\％日e日5 | 」 9＊ |
| C230 | A11427－104K2 | 0． 1 MF 50V 10\％0805 | E 8＊ |
| C231 | A11427－1日4K2 | 0．1 MF 50V 10\％0e日5 | E 7＊ |
| ᄃ232 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | E 7＊ |
| C233 | A11427－104K2 | 0． 1 MF 50V 10\％0日05 | D 8＊ |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND shall not be reproduced．copied．or used as the basis for the manufacture or sale of apparatus dr devices without permission

SCALE NONE

127451－4
REV
A

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C234 | A11369－102J2 | Q．D01LF 50V 5\％NPO MLC 0日05 T／ | 」 $7 *$ |
| C235 | 10243日－101K2 | 100PF 200V 10\％NPO 0805 | 」 2＊ |
| C236 | 103210－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C237 | 10321日－1 | 2．2UF 160V RADIAL T／R | I 1 |
| C238 | 10243日－820K2 | 82PF 200V 10\％NPO 0805 | 」 7＊ |
| C239 | A11427－1日4K2 | 0.1 MF 50V 10\％0e05 | E 7＊ |
| C240 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | 」 9 |
| C241 | A $11369-471 \mathrm{~K} 2$ | 470PF 50V 10\％NPO 0805 T／R | L 10 |
| C242 | A11369－330J2 | 33PF 50V 5\％NPO MLC 0日®5 | K 10 |
| C243 | A11427－103K5 | 0．$\triangle 1 \mathrm{MF} 50 \mathrm{~V}$ 5\％×7R 1205 | K 9＊ |
| C244 | 103191－1 | 0.47 UF Z5ப 121日 20\％50V | E 7＊ |
| C50］ | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | A 2 |
| C501 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| C502 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | B 2 |
| С503 | 102467－1 | 22MF 25V 20\％RAD T／A | B 2 |
| C504 | 1日243日－221K2 | 220PF 20日V 10\％NPG 0805 | A 2 |
| C505 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | A 2 |
| С506 | A11427－104K2 | 0．1 MF 50V 10\％0805 | A 2 |
| ᄃ509 |  | OPEN | B 2 |
| C600 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \%$ NPO 0805 T／R | A 2 |
| C601 | A11369－120K2 | $12 \mathrm{PF} 50 \mathrm{~V} 10 \% \mathrm{NPO} 0805 \mathrm{~T} / \mathrm{R}$ | A 1 |
| CED2 | A11369－120K2 | 12PF 50V 10\％NPO 0805 T／R | A 2 |
| C603 | 102467－1 | 22MF 25V $20 \%$ RAD T／A | B 2 |
| C604 | 10243日－221K2 | 220PF 200V 10\％NPO 0805 | B 2 |
| CE65 | A11427－1日4K2 | 0．1 MF 50V 10\％0805 | A 1 |
| c609 |  | OPEN | B 2 |
| C610 | C 6日06－1 | Q． 01 UF 10QV AXIAL CEA T／R | B 3 |
| CE1 1 | C 6日06－1 | 0.01 UF 1日QV AXIAL CEF T／R | B 1 |
| D1 | C 2日51－1 | 1 N 4004 SILICON RECT． | G 9 |
| D2 | C 2日51－1 | 1 N4004 SILICON RECT． | G 10 |
| D3 | C 2日51－1 | 1 N 4004 SILICON RECT． | G 10 |
| D4 | C 2日51－1 | 1 N4004 SILICON RECT． | $\square 10$ |
| D6 | C 2日51－1 | 1 N 40 4 4 SILICON RECT． | 」 8 |
| D7 | C 2日51－1 | 1 N 40 O 4 SILICON RECT． | 」 8 |
| D日 | C 3549－0 | DIODE ZENER，18V． 1 N5240日 | 」 8 |
| D9 | ［ 9283－8 | DIODE．1N914／1N4148 SQT－23 SMT | 1 9＊ |
| D10 | C 2日51－1 | 1 N4004 SILICON RECT． | I 10 |
| D1 3 | ᄃ 9283－ | DIQDE．1N914／1N4148 SQT－23 SMT | I 9＊ |
| D101 | ［ 9283－0 | DIODE．1N914／1N4148 SQT－23 SMT | N 9＊ |
| D102 | ᄃ 9283－0 | DIODE，1NS14／1N4148 SOT－23 5MT | N 9＊ |
| D103 | ᄃ 9283－0 | DIQDE．1N914／1N4148 SOT－23 SMT | L 9＊ |
| D104 | －9283－0 | DIODE，1NS14／1N4148 SQT－23 5MT | M 9＊ |
| D105 | C 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | L 9＊ |
| D106 | C 9283－${ }^{\text {c }}$ | DIODE． 1 N914／1N4148 SQT－23 SMT | N 8＊ |
| D107 | C 9283－0 | DIODE，1NS14／1N4148 SQT－23 SMT | N 8＊ |
| D10日 | ᄃ 9283－0 | DIODE，1NS14／1N4148 SOT－23 SMT | N 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND shall not be reproduced．copied．or used as the basis for the manufacture or sale of apparatus of devices without permission

SIZE DWG NO．
SCALE NONE

127451－4
REV
A


UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY, COPIES OF THESE DOCUMENTS
INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY.
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL, INE. AND Shall Not be reproduced. COpied. or used as the basis for the manufacture or sale of apparatus da devices without permission


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| D22日 | C 9283－0 | DIODE． 1 NG14／1N4148 SOT－23 SMT | E 7＊ |
| D229 | C 9283－0 | DIQDE．1NS14／1N4148 SOT－23 SMT | F 6＊ |
| D230 | C 9283－0 | DIODE，1N914／1N4148 SOT－23 SMT | K 9 |
| E 1 | 102476－1 | LED．SMT A／A GREEN | I 1 |
| E100 | 102477－1 | LED．SMT R／A RED | 」 1 |
| E101 | 102476－1 | LED，SMT R／A GREEN | 」 1 |
| E102 | 102477－1 | LED．SMT R／A RED | K 1 |
| E200 | 102477－1 | LED．SMT R／A RED | M 1 |
| E201 | 102476－1 | LED，SMT R／A GREEN | L 1 |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| H1 1 |  | GPEN | K 1 |
| H14 |  | OPEN | I 8 |
| H18 |  | OPEN | D 8 |
| H5 1 | 133595－1 | HS ASM，CE1DOD NON－ISOLATED CH1 |  |
| HS2 | 102572－3 | HS ASM，T1 NON－ISOLATED CH2． |  |
| H53 | 133595－1 | HS ASM，CE1日Qロ ISOLATED CHI |  |
| HS 4 | 102570－3 | HS ASM．T1 ISOLATED CH2．． |  |
| HW1 | 10260日－1 | SPACER，6×．1日7 LONG ALUMINUM | A 4 |
| HW2 | 1025日日－1 | SPACER，EX．1日7 LONG ALUMINLM | A 4 |
| HW3 | 10260日－1 |  | A 4 |
| HW4 | 10260日－1 | SPACER， $6 \times 1$ ， 1 \％LONG ALUMINUM | A 4 |
| HW5 | 10260日－1 | SPACER．EX．1日7 LONG ALUMINUM | A 4 |
| HWG | 10260日－1 | SPACER． $6 \times 187$ LONG ALUMINUM | B 4 |
| HW7 | 10260日－1 |  | B 4 |
| HWB | 10260日－1 | SPACER． $6 \times 1$ 日 7 LONG ALUMINUM | B 4 |
| HWG | A10日20－7 | $5-32 \times .625$ PCB LAPTIVE STUD | D 5 |
| HW10 | A10ロ20－7 | $6-32 \times .625$ PCB［APTIVE STUD | 16 |
| HW1 1 | A10020－7 | $5-32 \times .625$ PCB CAPTIVE STUD | D 2 |
| HW1 2 | A10日20－7 | $5-32 \times .625$ PCB［APTIVE STUD | 13 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | 」 5 |
| HW1 4 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 6 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB［APTIVE STUD | 」 2 |
| HW16 | A10020－7 | $6-32 \times .625$ PCB CAPTIVE STUD | N 3 |
| HW1 7 | 132491－1 | NUT．6－32 HEX NYLON LOCK | A 4 |
| HW18 | 132491－1 | NUT．6－32 HEX NYLON LOCK | A 4 |
| HW1 9 | 132491－1 | NUT．6－32 HEX NYLON LOCK | A 4 |
| HW20 | 132491－1 | NUT，6－32 HEX NYLON LOCK | A 4 |
| HW2 1 | 132491－1 | NUT．6－32 HEX NYLON LOCK | A 4 |
| Hw22 | 132491－1 | NUT．6－32 HEX NYLON LQCK | B 4 |
| HW23 | 132491－1 | NUT，6－32 HEX NYLON LOCK | B 4 |
| HW2 4 | 132491－1 | NUT．6－32 HEX NYLON LOCK | B 4 |
| HW25 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW26 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL | A 4 |
| HW2 7 | 103435－70608 | SCREW．6－32 $\times .5$ TORX PNHD SEM | A 4 |
| HW28 | 103435－70608 | SCREW，6－32 $\times .5$ TORX PNHD SEM | A 4 |
| $\stackrel{ }{ } \mathrm{J}$ | 101573－1 | HDA 4 POS ． 1 CTR MTA SHRD | G 10 |
| J3 | 102472－3 | CONN，12POS ． 1 CTR SGL ROW | M 8 |
| J 4 | 101571－1 | HDA 2 POS ． 1 CTR MTA SHRD | L 10 |
| J 5 | 101993－1 | JACK，6P4 COND MODULAR R／A |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INL．AND shall not be reproduced．copied．or used as the basis for the manufacture or sale of apparatus da devices without permission．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| 」1日号 | 102473－1 | SPEAKON， 4 POLE PCB HORZ | D 10 |
| J20日 | 102473－1 | SPEAKON， 4 PGLE PCB HQRZ | F 10 |
| 」500 | 126929－1 | 1／4＂TRS／XLR COMEO PCE VERT | $\square 3$ |
| 1502 | 102471－2 | HDA，12POS ． 1 CTA SGL ROW | C 1 |
| J600 | 125929－1 | 1／4＂TRS／XLR COMEO PCE VERT | 日 1 |
| K1日日 | 126317－1 | REL，3ДA 24 V SPST PCB W／FASTON | G 9 |
| K20日 | 126317－1 | REL，30A 24 V SPST PCB W／FASTON | E 9 |
| L100 | ᄃ 3510－2 | CHOKE，470UH 10\％AXIAL | N 7 |
| L101 | ᄃ 351日－2 | CHOKE，470UH 10\％AXIAL | I 7 |
| L102 | 10247日－1 | INDUCTOR，2．75UH 11A RADIAL | H 8 |
| L20日 | C 351日－2 | CHOKE，470UH 10\％AXIAL | J 1 |
| L201 | C 3510－2 | CHOKE，470UH 10\％AXIAL | D 1 |
| L2日2 | 102470－1 | INDUCTOR， 2.75 UH 11A RADIAL | I 1 |
| Q1 | 102479－1 | PWR MJD112 NPN DARLINGTON 10日V | H 10 |
| Q2 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | I 10 |
| $\square 3$ | 102479－1 | PWR M」D112 NPN DARLINGTON 1日QV | I 10 |
| Q100 | C 744日－1 | MMET3904 CHIP NPN | M 9＊ |
| 0101 | C 744日－1 | MMET3984 CHIP NPN | M 9＊ |
| Q102 | C 9931－4 | MMET50B7LT1 PNP XSISTOR 50T－23 | N 9＊ |
| Q103 | 102483－1 | PNP 30ロV 50UMA SDT－23 | L 9＊ |
| Q184 | C 9252－5 | 2N3904 48V NPN TRANSISTDR | I 6 |
| 0165 | 103193－1 | PNP 30日V 50QMA 50MHZ SOT－223 | M 7＊ |
| Q107 | 103192－1 | NPN 30ロV 500MA 50MHZ SQT－223 | M 7＊ |
| Q108 | 102481－1 | NPN 25V LOW NOISE SOT－23 | N 8＊ |
| 0169 | C 9931－4 | MMET5087LT1 PNP XSISTOR 5OT－23 | N $8^{*}$ |
| 0110 | 103192－1 | NPN 30ロV 50QMA 50MHZ SOT－223 | N 7＊ |
| 0111 | C 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | N 7＊ |
| 0120 | 103193－1 | PNP 30ロV 50QMA 50MHZ SOT－223 | I 7＊ |
| 0129 | C 744日－1 | MMET3904 CHIP NPN | G 9＊ |
| 0131 | 125106－1 | MAC9D 8 AMP 400V TRIAC | F 9 |
| 0132 | 10247日－1 | TRIAC DRIVER SES 8 V THRESH | F 9 |
| 0133 | 102480－1 | FET．N－LH 25V 50MA 50T－23 | M 9＊ |
| 0200 | C 744日－1 | MMET3904 LHIP NPN | K 9＊ |
| 0201 | C 744日－1 | MMET3904 CHIP NPN | K 9＊ |
| 0202 | C 9931－4 | MMET50B7LT1 PNP XSISTOR 50T－23 | L 9＊ |
| 0203 | 102483－1 | PNP 30DV 500MA SOT－23 | 」 9 ＊ |
| 0204 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 3 |
| 0205 | 103193－1 | PNP 30日V 50日MA 50MHZ SOT－223 | 」 7＊ |
| 0207 | 103192－1 | NPN 300V 5日日MA 50MHZ S0T－223 | K 7＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus of devices without permission

| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| Q20日 | 102481－1 | NPN 25V LOW NOISE SOT－23 | K 7＊ |
| Q209 | ［ 9931－4 | MMET5087LT1 PNP XSISTOR SOT－23 | K 8＊ |
| 0210 | 103192－1 | NPN 300V 500MA 50MHZ SOT－223 | 」 2 ＊ |
| Q21 1 | ［ 9931－4 | MMET5087LT1 PNP XSISTQA SOT－23 | 2＊ |
| 0220 | 103193－1 | PNP 300V 50DMA 50MHZ SOT－223 | D 2＊ |
| Q229 | C 744日－1 | MMET3904 EHIP NPN | E 9＊ |
| Q231 | 125106－1 | MACSD 8 AMP 40DV TRIAC | E 9 |
| Q232 | 10247日－1 | TRIAC DRIVER SBS 8 V THRESH | F 8 |
| Q233 | 102480－1 | FET，N－CH 25V 50MA SOT－23 | 」 9＊ |
| R1 | 127229－1 | RES，11日ロ OHM 5W 5\％THICK FILM | 」 8 |
| R2 | 127230－1 | RES，2200 DHM 3W 5\％THICK FILM | 」 8 |
| R3 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | I $8^{*}$ |
| R4 | A11371－3313 | 330 日HM D． 25 W 5\％CHIP | I 1＊＊ |
| R5 | A1136日－69811 | 6．98K OHM D．10W 1\％CHIP 0805 | D $8^{*}$ |
| R6 | A1136日－93111 | 9．31K 0．1W $1 \%$ CHIP 0805 | D $8^{*}$ |
| R日 | A11371－1022 | 1K 日．125W 5\％CHIP 1205 | N 10＊ |
| R9 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | H 9＊ |
| R10 | A1136日－20023 | 20K 日．25W $1 \%$ CHIP 1210 | H 9＊ |
| R11 | A11371－3341 | 330K 日． 1 DW 5\％CHIP 8805 | I 9＊ |
| R12 | A1136日－6日121 | 6日．1K D．10W 1\％CHIP | I 9＊ |
| R13 | A11371－1011 | 100 OHM 日．18W 5\％CHIP 0805 | I 10＊ |
| R1 4 | A11371－R221 | 0.22 OHM 日．10w 5\％CHIP 0日05 | I 10＊ |
| R15 | A11371－R221 | 0.22 OHM 日．10W 5\％CHIP 0日05 | I 10＊ |
| R16 | A11371－3923 | 3．9K 0．25W 5\％CHIP | N 9＊ |
| R17 | A1136日－82511 | 8．25K 0．1W 1\％CHIP 0805 | F 10＊ |
| R18 | A1136日－71511 | 7．15K 1／10W 1\％CHIP 0日05 | D $8^{*}$ |
| R19 | A11371－3313 | 330 OHM 0．25w 5\％CHIP | $11^{*}$ |
| R20 | A1136日－57621 | 57．6K ロ．10W 1\％CHIP D日®5 | I $9^{*}$ |
| R21 | A1136日－12121 | 12．1K OHM 0．18W 1\％CHIP 08®5 | 」 ＊$^{\text {＊}}$ |
| R22 | A1136日－39231 | 392K 0．10W 1\％CHIP 0805 | $19^{*}$ |
| R23 | A1136日－39231 | 392K 0．10W 1\％CHIP 0805 | I $9^{*}$ |
| R24 | A1136日－57621 | 57．6K 0．10w $1 \%$ CHIP 0日05 | I 9＊ |
| R25 | A1136日－10031 | $100 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | N 9＊ |
| R26 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | A 9＊ |
| R27 | A1136日－20021 | 20K 日．10W 1\％CHIP 0日05 | L 9＊ |
| R28 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | L 9＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND Shall not be reproduced．COpied．or used as the basis for the manufacture or sale of apparatus dr devices without permission．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R30 | A1136日－12031 | 10日K 0．1W $1 \%$ CHIP 0日05 | I 8＊ |
| R31 | A1136日－10031 | 100K 0．1W $1 \%$ LHIP 0805 | 」 8＊ |
| R33 | A11371－R221 | 0.22 OHM $0.10 \mathrm{~W} 5 \% \mathrm{CHIP} 0805$ | I 10＊ |
| R100 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | L 1 |
| R101 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | M 10＊ |
| R102 | A1136日－39231 | 392K 0．10W 1\％CHIP 0805 | N 9＊ |
| R103 | A1136日－49301 | 499 ロHM 日．10W 1\％CHIP 0805 | N 9＊ |
| R104 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | N 9＊ |
| R105 | A11371－6日14 | 6日日 OHM 0．50w 5\％CHIP | 」 1＊ |
| R106 | A1136日－10011 | 1K D．10W 1\％CHIP 0805 | M 9＊ |
| R107 | A1136日－10021 | 1日K 1／10W 1\％CHIP 0日05 | L 10＊ |
| R10日 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | L 10＊ |
| R109 | A1136日－19122 | 19．1K 0．125W 1\％CHIP 1206 | M 9＊ |
| R110 | A1136日－10811 | 1K 0．10W 1\％CHIP 0805 | L 9＊ |
| R111 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | L 9＊ |
| R112 | A10265－19121 | 19.1 K ロ．25W 1\％MF | L 9 |
| R113 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0885 | L 10＊ |
| R114 | A1136日－82511 | 日． $25 \mathrm{~K} 0.1 \mathrm{~W} 1 \%$ CHIP 0805 | L 10＊ |
| R115 | A1136日－6日121 | 5日． 1 K 日． $10 \mathrm{~W} 1 \%$ CHIP | L 10＊ |
| R116 | A1136日－22601 | 226 DHM 0．10W 1\％CHIP 0805 | M 9＊ |
| R117 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | M 9＊ |
| R118 | A1136日－6日111 | 6．81K OHM ロ．1®W 1\％CHIP 0865 | M 10 |
| R119 | A11371－3333 | 33K Q．25W 5\％CHIP 1210 | M 9＊ |
| R120 | A1136日－90921 | 90．9K 0．10W 1\％CHIP 0日05 | M 9＊ |
| R121 | A1136日－10621 | 10K 1／10W 1\％CHIP 0日05 | M 10 |
| R122 | A1136日－15831 | 15日K 0．10W 1\％LHIP 0805 | N 9＊ |
| R123 | A1136日－10031 | 100K 0．1W $1 \%$ CHIP 0805 | M 9＊ |
| R124 | A1136日－15831 | 15日K 日．10W 1\％CHIP 0805 | M 9＊ |
| R125 | A1136日－10031 | 100K D．1W 1\％CHIP 0805 | N 9＊ |
| R126 | A1136日－49921 | 49．9K 0．1W 1\％CHIP 0805 | M 9＊ |
| R127 | A11371－6821 | 6．日K 0．10W 5\％CHIP 0805 | N －$^{*}$ |
| R128 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | 」 1＊＊ |
| R129 | A11371－8211 | 82D OHM 日．18W 5\％CHIP | N 7＊ |
| R130 |  | OPEN | 0 8＊ |
| R131 |  | OPEN | 0 8＊ |
| R132 | A11371－2223 | 2．2K 日．25W 5\％CHIP 1210 | H 6＊ |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 6＊ |
| R134 | С1日613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3． $9 \mathrm{~K} 0.25 \mathrm{~W} 5 \%$ CHIP | M 7＊ |
| R136 | A11371－8201 | 82 OHM D．10W 5\％LHIP | M 7＊ |
| R137 | A1136日－49962 | 499 OHM 0．125w $1 \%$ CHIP | N 8＊ |
| R138 | A11371－1213 | 120 OHM D．25w 5\％CHIP | N 8＊ |
| R139 | A1136日－13703 | 137 OHM 0．25W 1\％CHIP | N 8＊ |
| R140 | A11371－3333 | 33K ロ．25W 5\％LHIP 1210 | N 8＊ |
| R141 | A11371－8211 | 820 OHM D．10W 5\％CHIP | 0 8＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without fermission．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| R142 | 12547日－1 | 3.83 KOHM 日．50W 1\％201日 T／R | －8＊ |
| R143 | A11371－3333 | 33 K D． $25 \mathrm{~W} 5 \%$ CHIP 1210 | N 8＊ |
| R144 | A11371－1213 | 120 OHM 0．25w 5\％CHIP | N 8＊ |
| R145 | A11371－1213 | 120 OHM 0．25W 5\％CHIP | N 8＊ |
| R146 | A11371－1331 | 13 K OHM D． 10 W 5\％CHIP 0805 | N 7＊ |
| R147 | A11371－1011 | 1日日 ロHM 0．10W 5\％CHIP 0805 | N 7＊ |
| R14日 | A11371－1日11 | 1日日 ロHM D．10W 5\％CHIP | M 7＊ |
| R149 | A1136日－60432 | 604K OHM D． 125 W 1\％CHIP 1206 | N 9＊ |
| R150 | A11371－5R63 | 5．6 ロ．25w 5\％CHIP | N6＊ |
| R151 | A1136日－20021 | 20K ロHM ロ．10W $1 \%$ CHIP 0805 | N 9＊ |
| R152 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | K 6＊ |
| R153 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R156 | 103199－1 | 0.4 ロHM 1W 5\％ 2512 T／R | M 6＊ |
| R157 | 103199－1 | 0.4 OHM 1W 5\％2512 T／R | N 5＊ |
| R15日 | A10266－2R74 | 2.7 OHM 2W 5\％CF | I 8 |
| R159 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D E＊ |
| R160 | A11371－1501 | 15 OHM 日．10W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | H 7＊ |
| R162 | A11371－4781 | 47 OHM ロ．10W 5\％CHIP | $\mathrm{H}^{7 *}$ |
| R163 | A11371－1811 | 1日日 DHM D．10W 5\％CHIP | I $7 *$ |
| R165 | A11371－5R63 | 5．6 0．25W 5\％CHIP | I 5＊ |
| R167 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | E E＊$^{*}$ |
| R168 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／A | F 6＊ |
| R171 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | G 6＊ |
| R172 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | H 6＊ |
| R174 | A1136日－60432 | 504K OHM $0.125 \mathrm{~W} 1 \%$ CHIP 1206 | G $8^{*}$ |
| R175 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | G $8^{*}$ |
| R176 | A1136日－1 प621 | 10K 1／1日W 1\％CHIP 日日05 | G $8^{*}$ |
| R177 | A1136日－10621 | 1日K 1／1日W 1\％CHIP 0日®5 | H $\mathrm{B}^{*}$ |
| R178 | A1136日－90921 | 90．9K 0．10W $1 \%$ CHIP 0日05 | N 9＊ |
| R179 | A1136日－10631 |  | F 7＊ |
| R180 | A1136日－39231 | 392K 0．10W $1 \%$ LHIP 0805 | G $8^{*}$ |
| R181 | A11371－6日 14 | 680 OHM 日．50w 5\％CHIP | 」 1＊ |
| R182 | A1136日－10021 | 1日K 1／10W 1\％CHIP 0日0s | F 8＊ |
| R183 | A1136日－10031 | 100K 0．1W 1\％CHIP 0日05 | F 8＊ |
| R184 | A1136日－20023 | 20K D． $25 \mathrm{~W} 1 \%$ CHIP 1210 | F 9＊ |
| R185 | A1136日－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0日05 | G 8＊ |
| R186 | A1136日－14031 | 1日日K D． $1 \mathrm{~W} 1 \%$ CHIP 0日05 | N 10＊ |
| R187 | A1136日－15831 | 158K 0．10W 1\％LHIP 0805 | M 10＊ |
| R188 | A1136日－15831 | 15日K 0．10W $1 \%$ LHIP 0805 | N 10＊ |
| R189 | A1136日－10631 | 1日QK 0．1W $1 \%$ CHIP 0a05 | M 10＊ |
| R190 | A1136日－57621 | 57．6K D．10w $1 \%$ CHIP 0805 | N 6＊ |
| R191 | A1136日－22601 | 226 OHM 0．10w $1 \%$ CHIP 0805 | N 6＊ |
| R192 | A1136日－60432 |  | L 9＊ |
| R193 | A1136日－10821 | 10K 1／10W 1\％CHIP 0805 | N 9＊ |
| R194 | A11371－8201 | 82 OHM D．10W 5\％LHIP | M 7＊ |
| R195 | A11371－8211 | 820 ロHM ロ．10W 5\％CHIP | M 7＊ |
| R196 | A1136日－10021 | 1日K 1／10W 1\％CHIP 0日05 | M 9＊ |
| R197 | A1136日－51111 | 5.11 K OHM 0．10W 1\％CHIP 0805 | M 10 |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INL．AND shall not be reproduced．copied．or used as the basis for the manufacture or sale of apparatus da devices without permission．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R199 | A11371－0R61 | 0 OHM 0．1W CHIP 0805 | N 8＊ |
| R200 | 102595－3 | POT．5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R202 | A1136日－39231 | 392K 0．10W 1\％LHIP 0805 | L 9＊ |
| R203 | A1136日－49901 | 499 OHM D． $10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| R204 | A1136日－10021 | 1日K 1／10W 1\％CHIP 0日05 | L 9＊ |
| R205 | A11371－6日14 | 6日® ロHM ロ．50W 5\％CHIP | M 1＊＊ |
| R206 | A1136日－10D11 | 1 K 日．10W 1\％CHIP 0805 | 」 9＊ |
| R209 | A1136日－19122 | $19.1 \mathrm{~K} 0.125 \mathrm{~W} 1 \%$ CHIP 1206 | K 9＊ |
| R210 | A1136日－10011 | 1 K 日．10W 1\％CHIP 0805 | 」 9＊ |
| R211 | A1136日－10821 | 10K 1／10W 1\％CHIP 0日05 | 」 ＊$^{\text {¢ }}$ |
| R212 | A10265－19121 | 19．1K 0．25W 1\％MF | 」 9 |
| R213 | A1136日－51111 | 5.11 K OHM ロ．10W $1 \%$ CHIP 0805 | 」 10 ＊ |
| R214 | A11368－82511 | 日． 25 K Q． $1 \mathrm{~W} 1 \%$ CHIP 0885 | 」10＊ |
| R215 | A1136日－68121 | 6日． 1 K 0．10W 1\％CHIP | 」10＊ |
| R216 | A1136日－22E01 | 225 OHM 日．10W $1 \%$ CHIP 0805 | K 9＊ |
| R217 | A11371－3341 | 330K 0．10W 5\％CHIP 0805 | 」 9＊ |
| R218 | A11368－68111 | 6．日1K OHM ロ．10W 1\％CHIP 0805 | K 10 |
| R219 | A11371－3333 | 33K D ．25W 5\％CHIP 1210 | 」 9＊ |
| R220 | A11368－98921 | 90．9K 0．10W 1\％CHIP 0日日5 | K 9＊ |
| R221 | A1136日－10821 | 10K 1／18W 1\％CHIP 0805 | K 18 |
| R222 | A1136日－15831 | 15日K 0．10W 1\％CHIP 0805 | K 9＊ |
| R223 | A1136日－18031 | 10日K 0．1W 1\％CHIP 0日05 | K 9＊ |
| R224 | A1136日－15831 | 15日K 日．10W 1\％CHIP 0805 | K 9＊ |
| R225 | A1136日－10631 | 100K ロ．1W 1\％CHIP D日05 | L 9＊ |
| R226 | A1136日－49921 | 49．9K ロ．1W $1 \%$ CHIP 0805 | K 9＊ |
| R227 | A11371－6日21 | 6．日K 0．10W 5\％CHIP D805 | K 9＊ |
| R228 | A11371－6日14 | 580 OHM ロ．50W 5\％CHIP | M 1＊ |
| R229 | A11371－8211 | 820 OHM D．18W 5\％CHIP | K 7＊ |
| R230 |  | QPEN | L 7＊ |
| R231 |  | OPEN | ᄂ 7＊ |
| R232 | A11371－2223 | 2．2K 0．25W 5\％LHIP 1210 | H 3＊ |
| R233 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 3＊ |
| R234 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A11371－3923 | 3．9K 0．25W 5\％LHIP | 」 $7 *$ |
| R236 | A11371－8201 | 82 OHM 日． $10 \mathrm{~W} 5 \%$ CHIP | 」 7＊ |
| R237 | A1136日－49902 | 499 OHM 0．125w $1 \%$ CHIP | K 8＊ |
| R23日 | A11371－1213 | 12日 OHM D． 25 W 5\％CHIP | K 7＊ |
| R239 | A1136日－13703 | 137 ロHM D．25w $1 \%$ CHIP | K 8＊ |
| R240 | A11371－3333 | 33K ロ．25W 5\％LHIP 1210 | K 7＊ |
| R241 | A11371－8211 | 82ロ OHM D．10W 5\％CHIP | L 8＊ |
| R242 | 12547日－1 | $3 . \mathrm{B} 3 \mathrm{KOHM} \mathrm{D.50W} 1 \% 2010 \mathrm{~T} / \mathrm{R}$ | L 7＊ |
| R243 | A11371－3333 | 33K Q．25W 5\％CHIP 1210 | K 8＊ |
| R244 | A11371－1213 | 120 ロHM D． 25 W 5\％CHIP | K 8＊ |
| R245 | A11371－1213 | 120 OHM D． 25 W 5\％CHIP | K 8＊ |
| R246 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 」 2＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

LNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without fermission．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R247 |  | 1日ロ OHM 0．10W 5\％CHIP 08ロ5 | 」 2 ＊ |
| R248 | A11371－1日11 | 180 OHM D．10W 5\％CHIP | K 2＊ |
| R249 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1206 | K 9＊ |
| R250 | A11371－5R63 | 5． 5 Q． 25 W 5\％CHIP | 」 2＊ |
| R251 | A1136日－20021 | 20K OHM D．10W 1\％CHIP 0805 | K 9＊ |
| R252 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K 4＊ |
| R253 | 103193－1 | 0． 4 QHM 1W 5\％ 2512 T／R | K 3＊ |
| R256 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 4＊ |
| R257 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／A | N 3＊ |
| R259 | 103199－1 | 0.4 ロHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | D 3＊ |
| R260 | A11371－1501 | 15 OHM D．10W 5\％CHIP | D 1＊ |
| R261 | A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | E 2＊ |
| R262 | A11371－47D1 | 47 OHM 0．10W 5\％CHIP | E 2＊ |
| R263 | A11371－1日11 | 1日日 OHM D．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5．6 0．25W 5\％CHIP | E 2＊ |
| R267 | 103199－1 | 0．4 ロHM 1W 5\％ 2512 T／A | E 4＊ |
| R26日 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／A | F 3＊ |
| R271 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | H 4＊ |
| R272 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | H 3＊ |
| R274 | A1136日－60432 | 604K OHM 0.125 W 1\％CHIP 1206 | E 8＊ |
| R275 | A1136日－51111 | 5.11 K OHM 0．18W $1 \%$ CHIP 0885 | E 8＊ |
| R276 | A1136日－10621 | 10K 1／10W 1\％CHIP D日05 | E 8＊ |
| R277 | A1136日－10821 | 1日K 1／10W 1\％CHIP 0日05 | E 8＊ |
| R278 | A1136日－90921 | 90．9K 0．10W 1\％CHIP 0日®5 | L 9＊ |
| R279 | A1136日－10831 | 100K D．1W 1\％CHIP D日05 | E 7＊ |
| R280 | A1136日－39231 | 392K D．10W 1\％CHIP 0805 | E 8 ＊ |
| R281 | A11371－6日14 | 680 OHM 0．50W 5\％CHIP | M $1^{*}$ |
| R282 | A1136日－10621 | 10K 1／10W 1\％CHIP D日D5 | D 8 ＊ |
| R283 | A1136日－10831 | 100K 0．1W 1\％CHIP 0日05 | E $8^{*}$ |
| R284 | A1136日－20023 | 20K ロ．25W $1 \%$ CHIP 1210 | F 9＊ |
| R285 | A1136日－10621 | 10K 1／10W 1\％CHIP 0日05 | F $\mathrm{B}^{*}$ |
| R286 | A1136日－10631 | 100K 0．1W $1 \%$ CHIP 0日05 | L 10＊ |
| R287 | A1136日－15831 | 15日K 0．10W 1\％CHIP 0805 | K 10＊ |
| R288 | A1136日－15831 | 15日K 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A1136日－10631 | 100K 0．1W 1\％CHIP 0日05 | K 10＊ |
| R290 | A1136日－57621 | 57．6K 0．10W 1\％CHIP 0a日5 | N 3＊ |
| R291 | A1136日－22601 | 226 0HM 0．10W 1\％CHIP 0805 | N 3＊ |
| R292 | A1136日－60432 | 6日4K OHM 日．125W 1\％CHIP 1205 | 」 9＊ |
| R293 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0805 | K 9＊ |
| R294 | A11371－8201 | 82 OHM D．10W 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | 」 $7 *$ |
| R296 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | K 9＊ |
| R297 | A1136日－51111 | 5.11 K OHM D． 1 日W 1\％CHIP 0805 | K 18 |
| R299 | A11371－DRD1 | 0 OHM 0．1W CHIP 0805 | K 8＊ |
| R300 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | D 6＊ |
| R301 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／A | 」 6＊ |
| R302 | 103199－1 | 0．4 ロHM 1W 5\％ 2512 T／R | K 5＊ |
| R305 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M 6＊ |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND shall not be reproduced．copied．or used as the basis for the manufacture or sale of apparatus of devices without permission


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R306 | 103199－1 | Q． 4 QHM 1W 5\％ 2512 T／A | N 5＊ |
| R307 | 103199－1 | 0． 4 QHM 1W 5\％ 2512 T／R | E 6＊ |
| R308 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | F 6＊ |
| R311 | 103199－1 | Q． 4 QHM 1W 5\％ 2512 T／A | G 6＊ |
| R312 | 103199－1 | 0.4 QHM 1W 5\％ 2512 T／A | I 6＊ |
| R313 | A1136日－10021 | 1日K 1／1日W 1\％CHIP 0日05 | G 7＊ |
| R314 | A11371－3341 | 330K 日．10W 5\％CHIP 0805 | G 7＊ |
| R315 | A1136日－51111 | 5.11 K OHM D．10W 1\％LHIP 0805 | H 7＊ |
| R316 | A1136日－10611 | 1K 日．10W 1\％CHIP 0805 | M 10＊ |
| R317 | A11371－3934 | 39K ロHM D．5DW 5\％CHIP 1210 | N 8 |
| R31日 | A11371－3934 | 39K OHM 0．50W 5\％CHIP 1210 | N 8 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1813 | 10日 ロHM．25W 5\％1210 SMT T／R | L 9 |
| R323 | A11371－bRE1 | 0 OHM 0．1W CHIP 0日05 | G 8 |
| R400 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／A | D 3＊ |
| R401 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／A | 」 ＊＊$^{\text {＊}}$ |
| R402 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／A | K 3＊ |
| R405 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／A | M 4＊ |
| R406 | 103199－1 | 0．4 ロHM 1W 5\％ 2512 T／R | N 3＊ |
| R487 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／A | E 4＊ |
| R488 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{A}$ | F 3＊ |
| R411 | 103199－1 | 0.4 ロHM 1W 5\％ 2512 T／A | H ＊＊$^{\text {＊}}$ |
| R412 | 103199－1 | 0.4 DHM 1W 5\％ 2512 T／A | I 3 ＊ |
| R413 | A1136日－10821 | 10K 1／10W 1\％CHIP 0日05 | E 7＊ |
| R414 | A11371－3341 | 330K D．10W 5\％CHIP 0805 | E $7 *$ |
| R415 | A1136日－51111 | 5.11 K OHM 0．18W 1\％CHIP 08B5 | E 7＊ |
| R416 | A1136日－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \%$ CHIP 0805 | K 10＊ |
| R417 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | K 7 |
| R418 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | K B |
| R419 |  | OPEN | K 10＊ |
| R420 | A11371－5R65 | 5． 6 OHM 1W 5\％CHIP 2512 | H 1＊＊ |
| R421 | A11371－5R65 | 5． $\mathrm{S}^{\text {OHM }} 1 \mathrm{~W} 5 \%$ CHIP 2512 | H 1＊ |
| R422 | A11371－1013 | 10日 OHM．25W 5\％1210 SMT T／R | 」 9 |
| R423 | A11371－0R61 | 0 OHM 0．1 W CHIP 0805 | F 8 |
| R500 | A1136日－10021 | 10K 1／10W $1 \%$ CHIP 0日日5 | A 3 |
| R50 1 | A1136日－10821 | 10K 1／1日W 1\％CHIP 0日Qs | A 2 |
| R502 | A1136日－10021 | 10K 1／10W 1\％CHIP 0日05 | B 2 |
| R503 |  | 1日K 1／1日W 1\％CHIP 日日05 | B 2 |
| R504 | A1136日－20011 | 2K 1／10W 1\％LHIP 0805 | A 2 |
| R506 | A1136日－20011 | 2K 1／10W 1\％LHIP 0805 | A 2 |
| R50日 |  | OPEN | C 2 |
| R600 | A1136日－10021 | 10K 1／10W 1\％CHIP 0805 | A 1 |
| R601 | A1136日－10021 | 1日K 1／1日W 1\％CHIP 0日05 | A 1 |
| RED2 | A1136日－10821 | 10K 1／10W 1\％CHIP 日日ロ5 | A 2 |
| R603 | A1136日－10，${ }^{\text {A } 11}$ | 10K 1／10W 1\％CHIP 0805 | A 2 |
| R604 | A1136日－20011 | 2K 1／10W 1\％CHIP 0805 | A 1 |
| R505 | A11371－1501 | 15 OHM 日．10W 5\％CHIP | C 3 |
| R606 | A1136日－20611 | 2K 1／10W 1\％CHIP 0805 | B 2 |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without fermission．

| $\begin{gathered} \text { SIZE } \\ \mathrm{A} \end{gathered}$ | DWG NO．$127451-4$ |  |  |  |  | $\begin{gathered} \text { REV } \\ \text { A } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCALE | NONE | PROJ NO．MD3gede | SHEET | 17 OF |  |  |


| PARTS LIST |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |  |
| R607 | A11371－8205 | 82 OHM 1W 5\％CHIP 2512 | A 1 |  |
| R608 |  | QPEN | C 1 |  |
| R609 | A11371－1501 | 15 OHM D．10W 5\％CHIP | C 3 |  |
| R610 | A11371－1501 | 15 OHM 日．10W 5\％CHIP | B 1 |  |
| 51 | C 7325－1 | 2 P 2 POS．PC SLIDE 5 W． | L 10 |  |
| 52 | C 7325－1 | 2 P 2 PQS．PC SLIDE SW． | L 10 |  |
| T日1 | 102475－1 | ELOCK． 5 POS TERMINAL | A 2 |  |
| TP38 | ᄃ 9895－9 | TEST POINT LOOP | K 1 |  |
| TP39 | ᄃ 9896－9 | TEST POINT LOOP | N 7 |  |
| ப1 | ᄃ 5095－2 | POS． 15 VOLT REG． | H 10 |  |
| U1 $\times$ | C 991日－1 | TO220 VERT CLIP－ON HEATSINK | H 10 |  |
| ப2 | C 5096－0 | NEG． 15 VOLT REG． | H 9 |  |
| L2X | C 991日－1 | TO22® VERT CLIP－ON HEATSINK | H 9 |  |
| U3 | 102485－1 | OPTO 日」T NPN SOIC－8 CTR $=100 \%$ | N 10 |  |
| ப4 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | I 9 |  |
| U5 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | N 9 |  |
| U180 | 102723－2 | OPTO CELL ON＝500 OHM | M 9 |  |
| U101 | C 9012－3 | MC33079D QUAD LO NOISE OP AMP | M 10 |  |
| ப182 | C 903日－8 | COMPARATOR，QUAD LM339D 50－14 | N 9 |  |
| U184 | C 903日－8 | COMPARATOR．QUAD LM339D SO－14 | G 7 |  |
| U185 | C 8262－5 | MC33078D DUAL LO NOISE OP AMP | F 7 |  |
| ப166 | 127683－1 | ASM．CE THERMAL SENSOR | N 6 |  |
| U200 | 102723－2 | OPTO CELL ON＝50］OHM | K 9 |  |
| U281 | C 9012－3 | MC33079D QUAD LD NOISE OP AMP | 」 10 |  |
| U2B2 | C 903日－8 | COMPARATOR．QUAD LM339D SO－14 | K 9 |  |
| U204 | C 903日－8 | COMPARATOR．QUAD LM339D SO－14 |  |  |
| ப205 | C 8262－5 | ML33078D DUAL LO NOISE OP AMP | E 7 |  |
| U266 | 127683－1 | ASM．CE THERMAL SENSOR | N 3 |  |
| U5B6 | C 9012－3 | ML33079D QUAD LO NQISE OP AMP | A 2 |  |
| WP1 | A1137日－A050U | WIRE， 16 RED FAST $\times 5 \times$ TERM | A 10 |  |
| WP2 | 103331－N050R | WIRE， 16 日LK／WHT TA日 $\times 5 \times$ T | A 9 |  |
| WP3 | A11379－C050U | WIRE， 16 日LU FAST $\times 5 \times$ TERM | A 9 |  |
| WP 4 | 101031－1 | 250 FASTON．ALTO INSERTABLE | D 7 |  |
| WP5 | 101031－1 | 250 FASTON．AUTO INSERTABLE | D 4 |  |
| WP6 | A12125－3140K | WIRE， 22 WHT $3 / 16 \times 14 \times$ FAST | 」 8 |  |
| WP7 | 101031－1 | 250 FASTON，AUTO INSERTABLE | D 8 |  |
| Z1 |  | OPEN | E 9 |  |
| Z100 | ᄃ 9202－亿 | 2 PIN SGL ROW VERT GOLD HDR | M 10 |  |
| Z100x | C 6419－3 | SHUNT．． $225^{\circ}$ SQ POST 2 POS | M 10 |  |
| 2200 | C 9202－6 | 2 PIN SGL ROW VERT GOLD HDR | K 10 |  |
| Z200x | C 6419－3 | SHUNT．． $225^{\circ}$ SQ POST 2 POS | K 1』 |  |
| 1 | 127450－1 | PW日，CE100ロ／CE200日 MAIN／INPU | SEE COMP | MAP |
| 2 | 101日16－1 | LBL，日ARCODE． | SEE COMP | MAP |
| 3 | 125242－1 | CAP．625ID $\times 1^{\prime \prime}$ VINYL | SEE COMP | MAP |
| 4 | 126日25－1 | SILICONE，LLEAR 3OZ SYRINGE | SEE COMP | MAP |
| 5 | 125482－1 | ADHESIVE LOCTITE 384 QUTPUT | SEE COMP | MAP |
| E | 125483－1 | ALTIVATOR LOCTITE＂OUTPUT＂ | SEE COMP | MAP |
| 7 | 103180－1 | BUMPER，0．4＂TALL BLK W／ADH | SEE COMP | MAP |
| TAPE | S 6285－1 | TAPE．KAPTON（POLYIMIDE）1／2＂ | SEE COMP | MAP |
|  |  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES QF THESE DOCUMENTS INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS ARE FOR REFERENCE ONLY．


## Component Map

for use with
Main/Input PWA 127451-4





| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| C．P．N． | DESCRIPTION | QTY | REFERENCE DESIGNATION |
| A11371－1011 | 10ด OHM 日．10W 5\％CHIP 0e05 | 3 | R13．R147．R247 |
| A11371－1013 | 100 GHM．25W 5\％ 1210 SMT T／R | 2 | R322，R422 |
| A11371－1022 | 1K 0．125W 5\％CHIP 1208 | 1 | R8 |
| A11371－1213 | 120 OHM $\triangle .25 \mathrm{~W} 5 \%$ CHIP | 4 | R138，R144，R238．R244 |
| A11371－1331 | 13 K OHM 0．10W 5\％CHIP 0805 | 4 | R146，R161．R246，R261 |
| A11371－1501 | 15 OHM 0．10W 5\％CHIP | 5 | R160，R260，R605．R609，R610 |
| A11371－1811 | 1 日0 OHM 0.10 W 5\％CHIP | 4 | R148，R163，R248．R263 |
| A11371－2223 | 2．2K 0．25W 5\％CHIP 1210 | 2 | R132．R232 |
| A11371－3313 | 330 OHM $0.25 \mathrm{~W} 5 \%$ CHIP | 2 | R4．R19 |
| A11371－3333 | 33x 0．25W 5\％CHIP 1210 | $\square$ | R119，R140，R143，R2 19，R240，R243 |
| A11371－3341 | 330K 0．10W 5\％CHIP 0日®5 | 7 | R3，R11．R26，R117，R217．R314． |
|  |  |  | R4 14 |
| A11371－3923 | 3．9K $0.25 \mathrm{~W} 5 \%$ CHIP | 3 | R16．R135．R235 |
| A11371－3934 | 39X OHM D．50W 5\％CHIP 1210 | 4 | R317，R318，R417，R41日 |
| A11371－4701 | 47 OHM D．10W 5\％CHIP | 2 | R162，R262 |
| A11371－4724 | 4．7K OHM D．5日W 5\％CHIP 201日 | 2 | R142，R242 |
| A11371－5R63 | $5.50 .25 \mathrm{~W} 5 \%$ CHIP | 4 | R150．R165，R250，R265 |
| A11371－5R65 | 5.6 OHM 1W 5\％CHIP 2512 | 2 | R420，R421 |
| A11371－5日14 | E日日 OHM $\triangle$ ． 5 OW 5\％CHIP | 5 | R105，R128，R1日1，R205，R228，R281 |
| A11371－6821 | 6．日K 0．10W 5\％CHIP 0日®5 | 2 | R127．R227 |
| A11371－7511 | 750 OHM 0.10 W 5\％CHIP | 3 | R28． 8133.8233 |
| A11371－日201 | 日2 OHM 0．10W 5\％CHIP | 4 | R136．R194．R236．R294 |
| A11371－8205 | 日2 OHM 1W 5\％CHIP 2512 | 1 | R607 |
| A11371－8211 | 820 0HM 0．10W 5\％CHIP | 5 | R129，R141，R195，R229，R241，R295 |
| A1137日－A650U | WIRE． 16 RED FAST $\times 5 \times$ TERM | 1 | WP 1 |
| A11379－C050U | WIRE． 16 BLU FAST $\times 5 \times$ TERM | 1 | WP3 |
| A11427－103K2 | ®．$\triangle 1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP 0805 | 6 | ᄃ109．c111．c115．c209．c211．c215 |
| A11427－103K5 | ®．$\triangle 1 \mathrm{MF} 50 \mathrm{~V} 5 \% \times 7 \mathrm{R} 1206$ | 2 | C143．C243 |
| A11427－184K2 | 0．1 MF 50V 10\％0805 | 30 | С6．C7．C12．ट24．C25．c2日．c29． |
|  |  |  | ᄃ122．C126．c127．c12日．c129． |
|  |  |  | ᄃ130．C131．С132．ट133．С139． |
|  |  |  | ᄃ222．c226．ᄃ227．С22日．ᄃ229． |
|  |  |  | ᄃ230．c231．c232．c233．c239． |
|  |  |  | C505． 5506.5605 |
| A11427－123K2 | $0.012 \mathrm{MF} 50 \mathrm{~V} 10 \%$ CHIP | 2 | C112．c212 |
| A11427－272K2 | 2700PF 50V 10\％CHIP 0日05 | 2 | C117．C217 |
| A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 4 | C116．C119，C216．C219 |
| A12125－3140K | WIRE． 22 WHT 3／16×14 $\times$ FAST | 1 | WP6 |
| C 2851－1 | 1 N 4004 SILICON RECT | 7 | D1．D2．D3．D4．D6．D7．D10 |
| C 3510－2 | CHOKE，470UH 10\％AXIAL | 4 | L100．L101，L200．L201 |
| C 3549－0 | DIODE ZENER，1هV， 1 N5240B | 1 | D日 |
| ［ 3679－5 | 33UF 50V 20\％VERT ELECT | 1 | C3 1 |
| C 4477－3 | 470 MF 35 V VERT | 2 | C4．C5 |
| C 5095－2 | POS． 15 VOLT REG | 1 | U1 |
| ［ 5096－0 | NEG． 15 VOLT REG． | 1 | U2 |
| ᄃ 5362－6 | 2.2 MF 50 V VERT | 1 | C27 |
| C 5419－3 | SHUNT，． $25^{\prime \prime}$ SQ POST 2 POS | 2 | Z1日日x，Z20日x SEE NOTE 15 |
| ᄃ 6日02－0 | 47 MF 50 V AX CERM | 2 | C102，C202 |
| C 6日06－1 | D． 01 UF 50V AXIAL CER T／R | 2 | C610．C611 |
|  |  |  |  |

## UNCONTROLLED

UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES QF THESE DOCUMENTS
INCLUDING ASSOCIATED ELEETRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE
PROPERTY OF SROWN INTERNATIONAL，INL．AND SHALL NOT EE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale OF APPARATUS DR DEVICES WITHOUT PERMISSION

| $\begin{gathered} \mathrm{SIZE} \\ \mathrm{~A} \end{gathered}$ | DWG NO． 127452 |  |  |  |  | $\begin{gathered} \text { REV } \\ \mathrm{A} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCALE | NONE | PRO」 NO．MD390DV | SHEET | 3 OF |  |  |




| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| C1 | 102465－1 | 1日UF 250V 20\％RADIAL T／R | 」 日 |
| C2 | 103418－103K2 | 0.01 MF 100V 10\％X7R 0805 SMD | F 9＊ |
| C3 | 125508－1 | 1ひUF 5ロVDC ELECTRQLYTIC SMD | 1 日 |
| C4 | C 4477－3 | 470 MF 35V VERT | G 10 |
| C5 | C 4477－3 | 470 MF 35 V VERT | G 9 |
| С6 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | H 10＊ |
| C7 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | H 9＊ |
| C12 | A1 1427－104K2 | 0.1 MF 50V 10\％0日05 | I 9＊ |
| C20 | D 8917－3 | 820ロLF 11日VDC ELECTROLYTIC | C 9 |
| C21 | D 8917－3 | 8200LF 110VDC ELECTROLYTIC | 日 9 |
| C22 | C 7091－9 | 0.33 MF 50 V CHIP 1206 | N 9＊ |
| C24 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | N 9＊ |
| C25 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | －9＊ |
| C26 | C 8575－8 | $100 \mathrm{MF} 35 \mathrm{~V} 10 \%$ ELEC | 19 |
| C27 | C 5362－6 | 2.2 MF 50 V VERT | H 10］ |
| C2日 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | 」 ＊＊$^{*}$ |
| C29 | A11427－104K2 | 0．1 MF 50V 10\％0005 | $1{ }^{\text {\％}}$ |
| C30 | 125508－1 | 10UF 50VDC ELECTROLYTIC SMD | I 日 |
| C31 | C 3679－5 | 33UF 50V 20\％VERT ELECT | I 10 |
| C100 | 103191－1 | 0.47 LF Z5U $121020 \%$ 50V | N 9＊ |
| C101 | 102455－1 | 47UF 50V 20\％RADIAL T／R | M 9 |
| C1日2 | C 58®2－ロ | 47 MF 50 V AX CERM | M 9 |
| C103 | 102457－1 | 22MF 25V 20\％RAD T／R | M 9 |
| C104 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | M 9＊ |
| C105 | C1ロ2ロ8－4 | 100 MF $25 \mathrm{~V} 20 \%$ VERT ELEC | L 9 |
| C106 | 102438－560k2 | 55PF 20ロV 10\％NPO 0805 | L 9＊ |
| C107 | A11369－270K2 | 27PF 50V 10\％NPO 0日05 T／R | L 9＊ |
| C108 | 102438－820K2 | 82PF 20ロV 10\％NPO 0805 | L 10＊ |
| C109 | A1 1427－103K2 | D．D1MF 50V 10\％CHIP D日05 | H ${ }^{*}$ |
| C110 | A1 1369－471K2 | 470PF 50V 10\％NPO $0805 \mathrm{~T} / \mathrm{R}$ | M 7＊ |
| C111 | A11427－1日3K2 | D．D1MF 50V 10\％LHIP ロ日ロ5 | N 日＊ |
| C112 | A11427－123K2 | 0．012 MF 50V 10\％CHIP | －日＊ |
| C113 | 127299－1 | 47UF 6．3V 20\％NP ALUM ELECT SMT T／R | N 日 |
| C114 | 127299－1 | 47UF E．3V 20\％NP ALUM ELECT SMT T／R | N 日 |
| C115 | A11427－1日3K2 | D．01 MF 50V 10\％LHIP 0805 | N 日＊ |
| C116 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | N 7＊ |
| C117 | A11427－272K2 | 270日PF 50V 10\％LHIP 0日®5 | I 7＊ |
| C118 | A10434－104JD | D． 1 MF 250V 5\％MTL POLY | I 8 |
| C119 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | I 7＊ |
| C120 | 182438－181K2 | 10ロPF 20ロV 10\％NPQ 0805 | I 7＊ |
| C121 | C10196－1 | 2．2MF 5BV 20\％RAD T／R | G B |
| C122 | A11427－104K2 | $0.1 \mathrm{MF} 50 \mathrm{~V} 10 \%$ 0日05 | F 日＊ |
| C123 | C 9157－6 |  | F 日 |
| C124 | C10196－1 | 2．2MF 5BV 20\％RAD T／R | L 9 |
| C126 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | N 10＊ |
| C127 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | N 9＊ |
| C128 | A11427－1日4K2 | D． 1 MF 50V 10\％0日05 | M 10＊ |
| C129 | A11427－1日4K2 | 0．1 MF 50V 10\％0日05 | M ＊$^{*}$ |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without fermission．


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| C130 | A11427－104K2 | D． 1 MF 50V 10\％日日05 | H 日＊ |
| C131 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | H 7＊ |
| C132 | A11427－184K2 | D． 1 MF 50V 10\％0日05 | F 7＊ |
| C133 | A11427－104K2 | 0． 1 MF 50V 10\％日日05 | F 日＊ |
| C134 | A11369－102」2 | $0.001 \mathrm{LF} 50 \mathrm{~V} 5 \%$ NPO MLC $0805 \mathrm{~T} /$ | M 7＊ |
| C135 | 102438－161K2 | 100PF 200V 10\％NPO 0805 | N 7＊ |
| C136 | 103210－1 | 2．2UF 160V RADIAL T／R | I 7 |
| C137 | 183210－1 | 2．2UF 160V RADIAL T／R | I 7 |
| C138 | 102438－820K2 | 82PF 20ロV 10\％NPD 0865 | M 7＊ |
| C139 | A11427－184K2 | D． 1 MF 50V 10\％0日05 | G 7＊ |
| C140 | C 7091－9 | 0.33 MF 50 V CHIP 1206 |  |
| C141 | A11359－471K2 | 470PF 58V 10\％NPD 0805 T／R | N 10 |
| C142 | A11369－330」2 | 33PF 50V 5\％NPO MLC B日日5 | M 10 |
| C143 | A11427－103K5 | 0．01MF 50V 5\％×7R 1206 | M 9 ＊ |
| C144 | 183191－1 | 0．47UF Z5U 121日 20\％50V | G 7＊ |
| C200 | 103191－1 | 0．47UF Z5U 1210 20\％50V | K 9＊ |
| C201 | 102465－1 | 47பF 50V $20 \%$ RADIAL T／R | 」 9 |
| C202 | C 6802－0 | 47 MF 50 V AX CERM | K 9 |
| C203 | 102467－1 | 22MF 25V 20\％RAD T／R |  |
| C204 | 102438－101K2 | $100 \mathrm{PF} 200 \mathrm{~V} 10 \%$ NPO 0805 | 」 $9^{*}$ |
| C205 | C10208－4 | $100 \mathrm{MF} 25 \mathrm{~V} 20 \%$ VERT ELEC | 」 9 |
| c206 | 102438－560K2 | 5EPF 200V 10\％NPO 0805 | 」 9 ＊ |
| C207 | A11369－270K2 | 27PF 50V 10\％NPQ 0日05 T／R | 」 $9 *$ |
| C208 | 102438－820K2 | 82PF 200V 10\％NPO 0805 | 」 10＊ |
| C209 | A11427－1日3K2 | 0．01MF 50V 10\％LHIP 0日05 | H 3＊ |
| C210 | A11369－471K2 | 470PF 50V 10\％NPO 0805 T／R | K 7＊ |
| C211 | A11427－1日3K2 | 0．01MF 50V 10\％CHIP 0日05 | K 7＊ |
| C212 | A11427－123K2 | D．012 MF 50V 10\％CHIP | L 日＊ |
| C213 | 102468－1 | 47UF 10V 20\％NP RAD T／R | K 日 |
| C214 | 10246日－1 | 47UF 1日V 20\％NP RAD T／R | K 日 |
| C215 | A11427－103K2 | D．01 MF 50V 10\％CHIP 0805 | K 日＊ |
| C216 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | 」 2＊ |
| C217 | A11427－272K2 | 270日PF 50V 10\％CHIP 0日05 | D 1 ＊ |
| C218 | A10434－104JD | D． 1 MF 250V 5\％MTL POLY | I 1 |
| C219 | A11427－472K2 | 4700PF 50V 10\％×7R 0805 | E 1＊ |
| C220 | 102438－101K2 | 100PF 200V 10\％NPO 0805 | D 2＊ |
| C221 | ᄃ1－196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | E 日 |
| C222 | A11427－104K2 | D． 1 MF 50V 10\％日日05 | E $\mathrm{B}^{*}$ |
| C223 | C 9157－6 | 100UF 16V 20\％NP ELEC RAD T／A | F 9 |
| C224 | C1－196－1 | 2． $2 \mathrm{MF} 50 \mathrm{~V} 20 \% \mathrm{RAD} \mathrm{T/R}$ | 」 9 |
| C226 | A11427－104K2 | D． 1 MF 50V 10\％日日05 | K 10＊ |
| C227 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | K 9＊ |
| C228 | A11427－104K2 | D． 1 MF 50V 10\％0日05 | 」 10＊ |
| C229 | A11427－104K2 | D． 1 MF 50V 10\％日日05 | 」 9 ＊ |
| C230 | A11427－104K2 | 0.1 MF 50V 10\％0日05 | E 日＊ |
| C231 | A11427－1日4K2 | 0.1 MF 50V 10\％0日05 | E 7＊ |
| C232 | A11427－184K2 | D． 1 MF 50V 10\％0日05 | E 7＊ |
| C233 | A11427－104K2 | 0．1 MF 50V 10\％0日05 | D $日^{*}$ |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without fermission．

SIZE DWG NO

SCALE NONE

$$
127452-4
$$

REV A



| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| D228 | C 9283－8 | DIODE． $1 \mathrm{NG14/1N414日} \mathrm{SOT-23} \mathrm{SMT}$ | E 7＊ |
| D229 | C 92日3－0 | DIODE， $1 \mathrm{NG14/1N414日} \mathrm{SOT-23} \mathrm{SMT}$ | F 6＊ |
| D230 | ᄃ 92日3－0 | DIODE， $1 \mathrm{NG} 14 / 1 \mathrm{~N} 414 \mathrm{~B}$ SOT－23 SMT | K 9 |
| E1 | 102475－1 | LED，SMT R／A GREEN | I |
| E100 | 102477－1 | LED，SMT R／A RED | 」 |
|  | 102475－1 | LED，SMT R／A GREEN | 」 |
| E102 | 102477－1 | LED，SMT R／A RED | K 1 |
| E200 | 182477－1 | LED，SMT R／A RED | M |
| E201 | 102475－1 | LED，SMT R／A GREEN |  |
| E202 | 102477－1 | LED，SMT R／A RED | M 1 |
| HS 1 | 133698－1 | HS ASM，CE200® NON－ISOLATED CH1 | L 6 |
| HS2 | 102575－3 | HS ASM．T2 NON－ISOLATED CH2． | L 3 |
| HS3 | 133697－1 | HS ASM．CE2000 ISOLATED CH1 | G 6 |
| HS4 | 102574－3 | HS ASM，T2 ISOLATED CH2， | G 3 |
| HW1 | 102578－1 | SPACER， $6 \times 125$ AL BLK ANODIZED | A 4 |
| HW2 | 102578－1 | SPALER． $6 \times 125$ AL BLK ANODIZED | A 4 |
| HW3 | 102578－1 | SPACER， $6 \times 125$ AL 日LK ANODIZED | A 4 |
| HW4 | 102578－1 | SPALER， $6 \times 125$ AL 日LK ANODIZED | A 4 |
| HW5 | 102578－1 | SPALER． $5 \times 125$ AL 日LK ANODIZED | A 4 |
| HWG | 102578－1 | SPACER， $6 \times 125$ AL BLK ANODIZED | 日 4 |
| HW7 | 102578－1 | SPALER． $6 \times .125$ AL 日LK ANODIZED | 日 4 |
| HWE | 102578－1 | SPALER， $5 \times 125$ AL 日LK ANODIZED | 日 4 |
| HWg | A10020－7 | $6-32 \times .625$ PCB LAPTIVE STUD | D 5 |
| HW10 | A10020－7 | $6-32 \times .625$ PCB［APTIVE STUD | I 6 |
| HW1 1 | A10020－7 | $6-32 \times .625$ PCB LAPTIVE STUD | D 2 |
| HW1 2 | A10020－7 | $6-32 \times .625$ PCB LAPTIVE STUD | I 3 |
| HW1 3 | A10020－7 | $6-32 \times .625$ PCB LAPTIVE STUD | J 5 |
| HW1 4 | A10020－7 | $6-32 \times$ ． 625 PCB LAPTIVE STUD | N 5 |
| HW15 | A10020－7 | $6-32 \times .625$ PCB LAPTIVE STUD | 」 2 |
| HW16 | A10020－7 | $6-32 \times .625$ PCB LAPTIVE STUD | N 3 |
| HW1 7 | 132491－1 | NபT，E－32 HEX NYLON LOCK | A 4 |
| HW1 8 | 132491－1 | NபT，6－32 HEX NYLON LOCK |  |
| HW1 9 | 132491－1 | NUT，6－32 HEX NYLON LOCK |  |
| HW2D | 132491－1 | NபT，E－32 HEX NYLON LOCK |  |
| HW2 1 | 132491－1 | NபT，6－32 HEX NYLON LOCK | A 4 |
| HW22 | 132491－1 | NUT，6－32 HEX NYLON LOCK | 日 4 |
| HW23 | 132491－1 | N•T，E－32 HEX NYLON LOCK | B 4 |
| HW2 4 | 132491－1 | NபT，6－32 HEX NYLON LOCK | 日 4 |
| HW25 | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL |  |
| HW2E | 102579－1 | STAND， $1 / 4 \mathrm{RD}$ SWAGE AL |  |
| HW27 | 103435－7060日 | SCREW．6－32 $\times$ ． 5 TORX PNHD SEM |  |
| HW28 | 183435－70608 | SCREW，6－32 X．5 TORX PNHD SEM | A 4 |
| 」 2 | 181573－1 | HDR 4 POS ． 1 CTR MTA SHRD | G 10 |
| J 3 | 102472－3 | CONN．12POS ． 1 CTR SGL ROW | M 8 |
| 」 4 | 181571－1 | HDR 2 POS ． 1 CTR MTA SHRD | L 10 |
| 」 5 | 161993－1 | 」ACK．EP4 COND MODLILAR R／A |  |
| 」100 | 102473－1 | SPEAKON． 4 POLE PCB HORZ | D 10 |
| 」 200 | 102473－1 | SPEAKON， 4 POLE PCE HORZ | F 10 |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND SHALL NOT EE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without permission

| $\begin{gathered} 5 I Z E \\ \mathrm{~A} \end{gathered}$ | DWG NO． 127452 |  |  |  |  | $\begin{gathered} \mathrm{REV} \\ \mathrm{~A} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCALE | NONE | PROJ NO．MD390D0 | SHEET | 10 OF | 24 |  |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| J50］ | 126929－1 | 1／4＂TRS／XLR COMEO PCE VERT | 日 3 |
| 」502 | 102471－2 | HDR， 12 POS .1 CTR SGL ROW | C |
| 」 $60 \square$ | 126929－1 | 1／4＂TRS／XLR COMED PCB VERT | 日 |
| K100 | 126317－1 | REL，30A 24V SPST PCB W／FASTON | G 9 |
| K200 | 126317－1 | REL，3®A 24 V SPST PCB W／FASTON | E 9 |
| L100 | ᄃ 3510－2 | CHOKE．470UH 10\％AXIAL | N 7 |
| L1日 1 | C 3510－2 | CHOKE．470UH 10\％AXIAL | I 7 |
| L102 | 102470－1 | INDUCTOR，2．75UH 11 A RADIAL | H |
| L200 | ᄃ 3510－2 | CHOKE．470UH 10\％AXIAL | 」 1 |
| L201 | ᄃ 3510－2 | CHOKE．470UH 10\％AXIAL | D 1 |
| L202 | 102470－1 | INDUCTOR．2．75UH 11 A RADIAL | I 1 |
| 01 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | H 10 |
| Q2 | 102479－1 | PWR MJD112 NPN DARLINGTON 100V | I 10 |
| 03 | 102479－1 | PWR MJD112 NPN DARLINGTON 10日V | I 10 |
| Q100 | C 7448－1 | MMBT3s0 4 CHIP NPN | M 9＊ |
| 0101 | C 7448－1 | MMBT3904 CHIP NPN | M 9＊ |
| Q102 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | N 9＊ |
| 0103 | 1024日3－1 | PNP 300V 500MA SOT－23 | L ${ }^{*}$ |
| 0104 | C 9252－5 | 2N3904 40V NPN TRANSISTOR | I 6 |
| Q105 | 103193－1 | PNP 300V 500MA 50MHZ SOT－223 | M 7＊ |
| 0107 | 103192－1 | NPN 300V 500MA 50MHZ 50T－223 | M 7＊ |
| Q188 | 1024日1－1 | NPN 25V LOW NOISE SOT－23 | N 日＊ |
| 0109 | ［ 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | N 日＊ |
| 0110 | 103192－1 | NPN 300V 500MA 50MHZ S0T－223 | N 7＊ |
| Q111 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | N 7＊ |
| Q1 12 | 103200－1 | NPN 230V 15A 30MHZ $25 C 5242$ | N 7 |
| Q120 | 103193－1 | PNP 30日V 500mA 50MHZ S0T－223 | I 7＊ |
| Q121 | 103200－1 | NFN 230V 15A 30MHZ 25C5242 | 17 |
| 0.129 | C 7448－1 | MMBT3904 CHIP NPN | ［ 9＊ |
| Q131 | 125106－1 | MACSD B AMP 400V TRIAC | F 9 |
| 0132 | 102478－1 | TRIAC DRIVER SBS 8 V THRESH | F 9 |
| Q133 | 1024日0－1 | FET，N－CH 25V 50MA SOT－23 | M 9＊ |
| Q200 | C 7448－1 | MMBT3904 CHIP NPN | K 9＊ |
| 9201 | C 7448－1 | MMBT3904 CHIP NPN | K \％$^{*}$ |
| Q202 | C 9931－4 | MMBT50日7LT1 PNP XSISTOR SOT－23 | L ® $^{*}$ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS DTHERWISE MARKED IN RED INK EY CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
INCLUDING ASSOCIATED ELECTRONIC REPRODUCTIONS
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE
PROPERTY OF EROWN INTERNATIONAL，INC．AND
SHALL NOT EE REPRODUCED．COPIED．OR USED
as the basis for the manufacture or sale
OF APPARATUS OR DEVICES WITHOUT FERMISSION．

| $\begin{gathered} 5 I Z E \\ \mathrm{~A} \end{gathered}$ | DWG NO． 127452 |  |  |  |  | $\begin{gathered} \mathrm{REV} \\ \mathrm{~A} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SCALE | NONE | PROJ NO．MD390D0 | SHEET | 11 OF | 24 |  |




| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LDC． |
| R133 | A11371－7511 | 750 OHM 0．10W 5\％CHIP | H 6＊ |
| R134 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | M 7 |
| R135 | A11371－3923 | 3．9K ロ．25W 5\％CHIP | M $7 *$ |
| R136 | A11371－8201 | 82 DHM B．10W 5\％CHIP | M 7 ＊ |
| 8137 | A1 1368－49902 | 499 OHM 0．125W 1\％ 1286 T／R | N 日＊ |
| R138 | A11371－1213 | 120 DHM 日． 25 W 5\％CHIP | N 日＊ |
| R139 | A11368－10703 | 107 DHM 0．25W 1\％CHIP | N $\mathrm{B}^{*}$ |
| R140 | A11371－3333 | 33K 0．25W 5\％CHIP 1210 | N 日＊ |
| R141 | A11371－8211 | 820 DHM 日．10w 5\％CHIP | － $\mathrm{B}^{*}$ |
| R142 | A11371－4724 | 4．7K DHM 0．50W 5\％CHIP 2010 | － $\mathrm{B}^{*}$ |
| R143 | A1 1371－3333 | 33K ロ．25W 5\％CHIP 1210 | N $日^{*}$ |
| R144 | A11371－1213 | 120 ロHM 日．25W 5\％CHIP | N 日＊ |
| R145 | A11368－75月03 | 75 OHM B．25W 1\％CHIP 1210 | N 日＊ |
| R146 | A1 1371－1331 | 13 K OHM 0．10W 5\％CHIP 0日05 | N 7＊ |
| R147 | A11371－1日11 | $10 \mathrm{OHM} \mathrm{D.10W} \mathrm{5} \mathrm{\%} \mathrm{CHIP} \mathrm{BE05}$ | N 7＊ |
| R148 | A11371－1811 | 1日0 OHM 0．10W 5\％CHIP | M $7 *$ |
| R149 | A11368－60432 | $604 \mathrm{~K} \mathrm{OHM} \mathrm{0.125W} 1 \%$ CHIP 1206 | N $9^{*}$ |
| R150 | A11371－5R63 | 5.6 0．25W 5\％CHIP | N 6＊ |
| R151 | A11368－20021 | 20K 1／10W 1\％CHIP 0805 | N 9＊ |
| R152 | 103199－1 | 0.4 OHM 1 W 5\％ 2512 T／R | K $\mathrm{E}^{*}$ |
| R153 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | K 5＊ |
| R154 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | L E＊$^{\text {＊}}$ |
| R155 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | M 5＊ |
| R156 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | M 6＊$^{*}$ |
| R157 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | N 5＊ |
| R158 | A10266－2R74 | 2.7 OHM 2W 5\％CF | I 1 |
| R159 | 103199－1 | 0.4 OHM 1W 5\％ 2512 T／R | D $\mathrm{E}^{*}$ |
| R150 | A11371－1501 | 15 OHM D．10W 5\％CHIP | I 7＊ |
| R161 | A11371－1331 | 13 K OHM 日． 10 W 5\％CHIP D日05 | H 7＊ |
| R162 | A1 1371－4781 | 47 OHM 0．10W 5\％CHIP | H 7＊ |
| R163 | A11371－1811 | 1日0 OHM D．10W 5\％CHIP | I 7＊ |
| R165 | A11371－5R63 | 5．6 D．25w 5\％LHIP | I 5＊ |
| R167 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 6＊ |
| R158 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | F $\mathrm{E}^{*}$ |
| R169 | 183199－1 | D． 4 OHM 1W 5\％ 2512 T／R | F $\mathrm{E}^{*}$ |
| R170 | 103199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 6＊ |
| R171 | 103199－1 | D． 4 ロHM 1W 5\％ 2512 T／R | G $5^{*}$ |
| R172 | 183199－1 | D． 4 OHM 1W5\％ 2512 T／R | H 6＊ |
| R174 | A1136日－60432 | 604K OHM 0．125W 1\％CHIP 1206 | G 日＊ |
| R175 | A11358－51111 |  | G $日^{*}$ |
| R176 | A1136日－10021 | 10K 1／1ロW 1\％CHIP Q805 | G $\mathrm{B}^{*}$ |
| R177 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0805 | H 日＊ |
| R178 | A11358－90921 | 90．9K ロ．10W 1\％CHIP B日B5 | N 9＊ |
| R179 | A1136日－10031 | 1日ロK ロ．1W 1\％CHIP 0805 | F 7＊ |
| R1日0 | A11368－39231 | 392K 8．10W 1\％CHIP 0805 | G 日＊ |
| R1厚 1 | A11371－6814 | 6日日 DHM 日．50W 5\％CHIP | 」 1＊ |
| R1星 | A11368－10021 | $10 \mathrm{~K} 1 / 1 \mathrm{BW} 1 \%$ CHIP 8805 | F $\mathrm{B}^{*}$ |
| R183 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | F $\mathrm{B}^{*}$ |
|  | A11358－20023 | 20K В．25W 1\％CHIP 121日 | F 9＊ |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without permission

| $\begin{gathered} \text { SIZE } \\ \mathrm{A} \end{gathered}$ | $127452-4$ |  |  |
| :---: | :---: | :---: | :---: |
| SCAL | NONE | PROJ NO．MD3gede | SHEET 14 OF 24 |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC |
| R185 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | G $\mathrm{B}^{*}$ |
| R186 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | N 10＊ |
| R187 | A11358－15831 | 158K D．10W 1\％CHIP 0805 | M 10＊ |
| R188 | A11368－15日31 | 158K D．10W 1\％CHIP D805 | N 10＊ |
| R189 | A11368－10031 | 100K 0．1W 1\％CHIP 0885 | M 10＊ |
| R190 | A11368－57621 | 57．6K 0．10W 1\％CHIP B日B5 | N 6＊ |
| R191 | A11368－22601 | 226 OHM 日． $10 \mathrm{~W} 1 \%$ CHIP D日05 | N 6＊ |
| R192 | A11368－60432 | 604K OHM 0．125W 1\％CHIP 1206 | L 9＊ |
| 8193 | A11358－10021 | 1 QK 1／1ロW 1\％CHIP 0885 | N 9＊ |
| R194 | A11371－8201 | 82 OHM D．10W 5\％CHIP | M $7 *$ |
| R195 | A11371－8211 | 820 OHM 0．10W 5\％CHIP | M 7＊ |
| R196 | A11358－10021 | 1 QK 1／1ロW 1\％CHIP 0885 | M 9＊ |
| R197 | A11368－61911 | 6．19K 0．10W $1 \%$ CHIP B日B5 | M 10 |
| R199 | A11371－0R01 | 0.0 OHM 0．1W CHIP 0805 | N $\mathrm{B}^{*}$ |
| R200 | 182595－3 | POT，5K LIN 21 DNT 12MM HORIZ | N 1 |
| R201 | A11358－10011 | 1 K ロ． $10 \mathrm{~W} 1 \%$ CHIP 0日05 | K 10＊ |
| R202 | A11368－39231 | 392K 0．10W 1\％CHIP 0805 | L $9^{*}$ |
| R203 | A11368－49901 | 499 OHM 日． $10 \mathrm{~W} 1 \%$ CHIP D日05 | L ®＊$^{*}$ |
| R204 | A11358－10021 | $10 \mathrm{~K} 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | L 9＊ |
| R205 | A11371－6814 | 6日0 OHM 0．50W 5\％CHIP | M 1＊ |
| R206 | A11368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP} 0005$ | J 9＊ |
| R209 | A11368－19122 | $19.1 \mathrm{~K} \mathrm{O} 125 \mathrm{~W} 1 \$.$% CHIP 12 \mathrm{~L}$ | K $9^{*}$ |
| R210 | A11368－10011 | 1 K 日． $10 \mathrm{~W} 1 \% \mathrm{CHIP}$ D日05 | 」 －$^{*}$ |
| R211 | A11358－10021 | 10K 1／10W 1\％CHIP 0805 | 」 ＊$^{*}$ |
| R212 | A14255－19121 | 19.1 K ®． $25 \mathrm{~W} 1 \% \mathrm{MF}$ | 」 9 |
| R213 | A11368－51111 | 5.11 K OHM 日． $10 \mathrm{~W} 1 \%$ CHIP 0805 | 」 10＊ |
| R214 | A11368－82511 | 8．25K ロ． $1 \mathrm{~W} 1 \%$ CHIP 0805 | 」 10＊ |
| R215 | A11368－68121 | 6日． 1 K 日． $10 \mathrm{~W} 1 \%$ LHIP | 」10＊ |
| R216 | A1 1368－22601 | 226 OHM 日． 10 W 1\％CHIP D日05 | K ＊$^{*}$ |
| R217 | A1 1371－3341 | 330K 0．10w 5\％CHIP 0805 | J Q＊$^{\text {＊}}$ |
| R218 | A11368－10221 | 10．2K ロ．10W 1\％LHIP D日05 | K 10 |
| R219 | A1 1371－3333 | 33K D．25w 5\％CHIP 121 B | J \％$^{\text {＊}}$ |
| R220 | A11368－90921 | 90．9K 0．10W 1\％CHIP 0日05 | K 日 $^{*}$ |
| R221 | A11358－10ロ21 | 1日K 1／10W 1\％LHIP 0805 | K 10 |
| R222 | A11368－15日31 | 158K 日．10W $1 \%$ CHIP 0805 | K \％$^{*}$ |
| R223 | A11368－10031 | 100K 0．1w 1\％CHIP 0805 | K 9＊ |
| R224 | A1 1358－15日31 | 158K D．10W 1\％CHIP 0805 | K 9＊ |
| R225 | A11368－10031 | 100K ロ．1W 1\％CHIP 0885 | L 9＊ |
| R226 | A11368－49921 | 49．9K ロ．1W $1 \%$ CHIP 0805 | K 9＊ |
| R227 | A1 1371－6821 | 6．8K D．10W 5\％CHIP 0805 | K 9＊ |
| R228 | A11371－6814 | 6日ర OHM 日．50w 5\％CHIP | M 1＊ |
| R229 | A1 1371－8211 | 820 DHM 0．10W 5\％CHIP | K 7＊ |
| R230 |  | OPEN | L 7＊ |
| R231 |  | OPEN | L 7＊ |
| R232 | A1 1371－2223 | 2．2K ®． 25 W 5\％CHIP 1218 | H 3＊ |
| R233 | A11371－7511 | 750 DHM 日．10W 5\％CHIP | H 3＊ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND SHALL NOT EE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without permission．

| SIZE <br> $A$ | DWG NO． | $127452-4$ |
| :---: | :--- | :--- | :--- | :--- |
| SCALE NONE | PROJ NO．MDJgODQ | SHEET 15 OF 24 |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R23 4 | C10613－5 | 1 K TOP ADJUST TRIMMER T／R | 」 7 |
| R235 | A1 1371－3923 | 3.9 K 0．25W 5\％CHIP | 」 7＊ |
| R236 | A1 1371－8201 | 82 OHM D．10W 5\％CHIP | 」 7 ＊ |
| R237 | A1136日－49902 | 499 OHM 0．125W 1\％1206 T／R | K 日＊ |
| R238 | A1 1371－1213 | 120 OHM 0．25W 5\％CHIP | K 7＊ |
| R239 | A11368－10703 | 107 ロHM ®．25W 1\％CHIP | K 日＊ |
| R240 | A11371－3333 | 33K D．25W 5\％CHIP 121日 | K 7＊ |
| R241 | A1 1371－8211 | 820 OHM D．10W 5\％CHIP | L 日＊ |
| R242 | A11371－4724 | 4．7K OHM 日．50W 5\％CHIP 201日 | L 7＊ |
| R243 | A11371－3333 | 33K ロ．25W 5\％CHIP 1210 | K 日＊ |
| R244 | A1 1371－1213 | 120 OHM 0．25W 5\％CHIP | K 日＊ |
| R245 | A11368－75月03 | 75 ロHM ロ．25W 1\％CHIP 1210 | K $\mathrm{B}^{*}$ |
| R246 | A11371－1331 | 13K OHM 0．10W 5\％CHIP B日05 | 」 $2^{*}$ |
| R247 | A1 1371－1011 | 100 OHM 日． $10 \mathrm{~W} 5 \%$ CHIP 0日0s | 」 ＊$^{*}$ |
| R248 | A11371－1811 | $1 日 \square$ OHM 日．10W 5\％CHIP | K 2＊ |
| R249 | A11368－60432 | 604K OHM 0．125W 1\％CHIP 120 E | K 9＊ |
| R250 | A1 1371－5R63 | 5．6 日．25w 5\％CHIP | 」 2＊ |
| R251 | A11368－20021 | 20K 1／10W 1\％CHIP 0805 | K ＊＊$^{*}$ |
| R252 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | K 4＊ |
| R253 | 103199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | K 3＊ |
| R254 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | L 4＊ |
| R255 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M 3 ＊ |
| R256 | 103199－1 | D． 4 OHM 1W5\％ 2512 T／R | N 4＊ |
| R257 | 103199－1 | 0．4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R259 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | D $3 *$ |
| R260 | A11371－1501 | 15 QHM D．10W 5\％CHIP | D 1＊ |
| R261 | A11371－1331 | 13K OHM 0．10w 5\％CHIP 0日05 | E 2＊ |
| R262 | A1 1371－4701 | 47 OHM D．10W 5\％CHIP | E 2＊ |
| R263 | A1 1371－1811 | 1 100 OHM 日．10W 5\％CHIP | E 2＊ |
| R265 | A11371－5R63 | 5.6 D．25w 5\％CHIP | E 2＊ |
| R267 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | E 4＊ |
| R268 | 103199－1 | D． 4 DHM 1W 5\％ 2512 T／R | F 3＊ |
| R269 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | F 4＊ |
| R270 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | G 3＊ |
| R271 | 103199－1 | D． 4 DHM 1W 5\％ 2512 T／R | H 4＊ |
| R272 | 103199－1 | 0． 4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | H 3＊ |
| R274 | A11358－60432 | E®4K ロHM 日． $125 \mathrm{~W} 1 \%$ CHIP 120 E | E 日＊ |
| R275 | A11368－51111 | 5.11 K OHM $0.10 \mathrm{~W} 1 \%$ CHIP 0日05 | E $\mathrm{B}^{*}$ |
| R276 | A1136日－10021 | 1日K 1／1日W 1\％CHIP 0805 | E 日＊ |
| R277 | A11358－10021 | 10K 1／10W 1\％LHIP 0805 | E 日＊ |
| R278 | A11368－90921 | 90．9K D．10W 1\％CHIP B日®5 | L 9＊ |
| R279 | A11368－10031 | 100K 0．1W 1\％CHIP 0805 | E 7＊ |
| R2日碞 | A11368－39231 | 392K ロ．10W 1\％CHIP 0805 | E 日＊ |
| R2日 1 | A11371－6814 | 6日ర DHM 日．50W 5\％CHIP | M 1＊ |
| R2日2 | A11368－10021 | 10K 1／10W 1\％CHIP 0805 | D 日＊ |
| R2日3 | A11358－16031 | 10ロK ロ．1W 1\％CHIP Q805 | E $\mathrm{B}^{*}$ |
| R2日 4 | A11368－20023 |  | F 9＊ |
| R285 | A11368－10021 | 1 KK $1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | F 日＊ |
| R2日6 | A11358－10031 | 100K В．1W 1\％CHIP Q805 | L 10＊ |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF CROWN INTERNATIONAL，INE．AND SHALL NOT EE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without permission

| $\begin{gathered} \text { SIZE } \\ \mathrm{A} \end{gathered}$ | DWG Na． $127452-4$ |  |  |
| :---: | :---: | :---: | :---: |
| SCAL | none | PROJ NO．MD3gede | SHEET 16 OF 24 |


| PARTS LIST |  |  |  |
| :---: | :---: | :---: | :---: |
| REF DES | C．P．N． | DESCRIPTION | MAP LOC． |
| R287 | A1136日－15日31 | 158K D．10W 1\％CHIP 0885 | K 10＊ |
| R288 | A1 1368－15831 | 158K 0．10W 1\％CHIP 0805 | K 10＊ |
| R289 | A11358－10831 | 10ロK ロ．1W 1\％CHIP 0805 | K 10＊ |
| R290 | A1136日－57621 | 57．6K ロ．10W 1\％LHIP B日B5 | N 3＊ |
| R291 | A1 1368－22801 | 226 OHM 0．10W 1\％CHIP 8日05 | N 3＊ |
| R292 | A11358－50432 | E®4K OHM 0．125W 1\％CHIP 1206 | 」 9＊ |
| R293 | A11368－10021 | 1日K 1／1ロW 1\％CHIP Q805 | K 9＊ |
| R294 | A1 1371－8201 | 82 OHM 0．10W 5\％CHIP | 」 7＊ |
| R295 | A11371－8211 | 820 ロHM 日．10W 5\％CHIP | 」 7＊ |
| R296 | A11368－10021 | 10K 1／1ロW 1\％CHIP 8805 | K 9＊ |
| R297 | A11368－51911 | 6．19K 0．10W 1\％CHIP 0日05 | K 10 |
| R299 | A11371－0RD1 | D．ロ OHM 0.1 W CHIP 0805 | K $日^{*}$ |
| R300 | 103199－1 | Q． 4 OHM 1W 5\％ 2512 T／A | D 6＊ |
| R301 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | 」 $\mathrm{E}^{*}$ |
| R302 | 103199－1 | D． 4 口HM 1W 5\％ 2512 T／R | K 5＊ |
| R303 | 103199－1 | 0． 4 OHM 1w 5\％ 2512 T／R | L B＊$^{*}$ |
| R304 | 103199－1 | 0.4 OHM 1w 5\％ 2512 T／R | M 5＊ |
| R305 | 103199－1 | 0． 4 OHM 1W 5\％ 2512 T／R | M 6＊$^{*}$ |
| R306 | 103199－1 | 0． 4 OHM 1w 5\％ 2512 T／R | N 5＊ |
| R307 | 103199－1 | 0.4 OHM 1w $5 \% 2512 \mathrm{~T} / \mathrm{R}$ | E E＊ |
| R308 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | F E＊ |
| R309 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | G $\mathrm{E}^{*}$ |
| R310 | 103199－1 | D． 4 OHM 1W5\％ 2512 T／R | G 5＊ |
| R311 | 103199－1 | 0.4 OHM $1 \mathrm{~W} 5 \% 2512 \mathrm{~T} / \mathrm{R}$ | G 5＊ |
| R312 | 103199－1 | D． 4 DHM 1W 5\％ 2512 T／R | I $\mathrm{E}^{*}$ |
| R313 | A1 1368－10021 | 10K 1／10W 1\％CHIP 0805 | $67 *$ |
| R314 | A11371－3341 | 330K 0．10w 5\％CHIP 0805 | G 7＊ |
| R315 | A11358－51111 | 5.11 K OHM 日． 1 ®W $1 \%$ CHIP 0日05 | H 7＊ |
| R316 | A1 1368－10011 | $1 \mathrm{~K} 0.10 \mathrm{~W} 1 \% \mathrm{CHIP}$ D日05 | M 10＊ |
| R317 | A11371－3934 | 39K OHM 日．50w 5\％CHIP 1210 | N 日 |
| R318 | A11371－3934 | 39K OHM D．50W 5\％CHIP 1210 | N 日 |
| R319 |  | OPEN | M 10＊ |
| R322 | A11371－1013 | 100 OHM ．25W 5\％1210 SMT T／R | L 9 |
| R323 | A11371－0RD 1 | D．0 OHM ロ．1 W LHIP 0805 | G $\square^{\text {a }}$ |
| R400 | 183199－1 | D． 4 OHM 1W 5\％ 2512 T／R | D 3＊ |
| R401 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | J 4＊ |
| R402 | 103199－1 | D． 4 ロHM 1W 5\％ 2512 T／R | K 3＊ |
| R403 | 183199－1 | D． 4 OHM 1W 5\％ 2512 T／R | L 4＊ |
| R404 | 103199－1 | 0．4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | M 3＊ |
| R405 | 103199－1 | D． 4 ロHM 1W 5\％ 2512 T／R | M 4＊ |
| R406 | 103199－1 | D． 4 OHM 1W 5\％ 2512 T／R | N 3＊ |
| R407 | 183199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | E 4＊ |
| R408 | 183199－1 | D． 4 口HM 1W 5\％ 2512 T／R | F 3＊ |
| R409 | 103199－1 | D． 4 DHM 1W 5\％ 2512 T／R | G 4＊ |
| R410 | 183199－1 | 0.4 OHM 1W 5\％ $2512 \mathrm{~T} / \mathrm{R}$ | G 3＊ |
| R411 | 163199－1 | 0． 4 DHM 1W 5\％ 2512 T／R | H 4＊ |
| R412 | 183199－1 | 0． 4 DHM 1W 5\％ 2512 T／R |  |
| R4 13 | A11368－10021 | $10 K 1 / 10 \mathrm{~W} 1 \%$ CHIP 0805 | E 7＊ |
|  |  |  |  |
|  |  |  |  |

UNCONTROLLED
UNLESS OTHERWISE MARKED IN RED INK 日Y CM AS A CONTROLLED COPY，COPIES OF THESE DOCUMENTS
including associated electronic reproductions
ARE FOR REFERENCE ONLY．
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EROWN INTERNATIONAL，INE．AND SHALL NOT GE REPRODUCED．COPIED．OR USED as the basis for the manufacture or sale of apparatus dr devices without permission




## Component Map

for use with
Main PWA 127452-4



## 9 Field Modifications

This section details field modifications authorized and recommended by Crown which should be performed on affected units. Only the specific models identified in each case should be modified. If you are in doubt whether the amplifier you are servicing needs any of the modifications described in this section, contact the Crown Technical Support Group.

## PLEASE HEED ALL CAUTIONS AND WARNINGS.

Crown Authorized Warranty Centers should refer to their "Tech Notes" library for up-to-date field modification instructions.

## NOTE: THE INFORMATION INTHIS MANUAL IS INTENDED FOR USE BY AN EXPERIENCED TECHNICIAN ONLY!

### 9.1 Fan Circuit Ballast Resistors

Applicability: CE1000, CE2000 Models, with -6 modules, built in January 1998.

When servicing a CE1000 or CE2000 amplifier, the resistors R14 and R15 should be checked for the correct value part. These resistors should be a 0.2 ohm (A11371-OR21), but it is possible they may be a zero ohm jumper due to a manufacturing error. These resistors are part of the fan circuitry. They are the ballast resistors for the darlington transistors Q1 and Q2.

The amplifier will not exhibit any abnormal performance due to this change in resistors. However, if you have a CE amplifier on the bench, verify that R14 and R15 have the proper value resistor. If it has the zero ohm jumper, replace it with the above specified 0.2 ohm resistor.

### 9.2 Timing/Mute Capacitors

Applicability: CE-1000 and UT-1010 with \#102138-8 modules, and CE-2000 and UT-2020 with \#102140-8 modules.

Some early model CE amplifiers may not come out of standby upon start up. When this happens, the fault light will simply continue to flash on and off indicating that there is some fault condition on the amplifier. It is likely that the problem may be the formation of con-
densation under the timing capacitors \& resistors, C121/221 \& R174/274 and/or the muting capacitors \& resistors C124/224 \& R192/292. Additionally, resistors R6 and R18 need to be upgraded to a new value, and resistor R29 should be removed.

This problem has only occured on 102138-8(CE1000) and 102140-8(CE2000) boards and earlier, (before November 1998). Newer revision main modules (i.e. 102138-9(CE1000) / 102140-9(CE2000) and later) will not have this problem because the timing circuit was changed to be lower impedance and utilize an electrolytic capacitor for timing.

## Procedure:

1. Upgrade R6 to 9.31 kohm 1\% (CPN A11368-93111) and R18 to 7.15 kohm 1\% (CPN A11368-71511).
2. De-solder and remove R29. This circuit location will remain open.
3. De-solder and remove the muting capacitors and resistors.
4. Thoroughly remove all residual adhesive from under the removed components. Caution: Any remaining adhesive may act to absorb moisture and repeat the above-described symptoms.
5. Clean the affected area. This should be done using only a soft bristle brush and a high grade IPA isopropyl alcohol. Using anything else can result in damage to the circuit board and components. After the module is clean, it must be allowed sufficient time to dry out. If necessary, a hair dryer (on low heat) or air gun (low psi) may be used to assist in the drying process.
6. Replace removed muting capacitors and resistors with new components: C121/221 and C124/224, CPN C 6802-0; R174/274 and R192/292 CPN A11371-4751.

If there are further questions, please contact the Technical Support Group at 1-800-342-6939

## CAUTION!

The main module MUST be cleaned! To clean the board, use only a soft bristle brush and high grade IPA isopropyl alcohol. Using anything else can damage the components.


Figure 9.1. Bottom Side of Main Module

### 9.3 Modification to correct oscillation/ noise problem

Applicability: CE-1000 and UT-1010 with \#102138-8 module, and CE-2000 and UT-2020 with \#102140-8 module.
A change was made on main boards 102138-8 (CE1000) and 102140-8 (CE2000) which has been found to cause the amplifier to exibit an oscillation or noise in the output under certain specific operating conditions. This problem applies only to new amplifiers with -8 main boards, or older amplifiers into which a new -8 main board is being installed.
A modification has been designed to provide better ground isolation on the input module, preventing the problem from occuring. All SST input modules (including the standard input module) used in the affected amplifiers should be modified to prevent oscillations or noise from occuring. Perform the modification as follows:


Figure 9.2. Standard SST module, component side

## Procedure:

1. Dis-attach AC, input and output connections from the amplifier.
2. Loosen and remove the screws holding the SST input module in place, and remove the module.
3. Remove the screws holding the front plate of the module in place, and remove the front the front plate.
4. De-solder capacitors C606 and C607 on standard SST input module, or capacitors C31 and C32 on SSTSBSC module. These are 0.1 uF surface-mount capacitors located in the bottom right corner of the circuit board with the component side of the board facing you on the standard SST module (see Figure 9.2,) and directly above J2 on the rear side of the circuit board on the SST-SBSC module (see Figure 9.3.)
5. Replace the capacitiors with 15 ohm, 0.1 W surface mount resistors, Crown part number A11371-1501.
6. Reassemble the module and re-install in the amplifier.


Figure 9.3. SBSC module, rear view

### 9.4 Bootstrap Resistor Modification

Applicability: CE-1000, CE-2000, UT-1010, UT-2020, S3 and M-240 amplifiers containing the following main modules: CPN 102139-5, CPN 102140-5, CPN 102140-6, CPN 102140-8, CPN 102140-9 and CPN 127354-1. This modification is not necessary on 127451-4 and 127452-4 PWAs.

Diagnosis: Perform this modification on all listed boards for any amplifiers retained for servicing. This modification is required to create a voltage-divider network to divert excess wattage from key main board components. Check first to verify if a previous modification has already been performed by a Crown authorized servicer. Previously installed bootstrap resistor may be located on main board top next to C1 capacitor (original 0156 procedure), or may be spliced into the bootstrap supply wire ( Tech Note 0156 REV A procedure).

Part Description: 1000-Ohm, 5-Watt resistor (CPN 127438-1), Clip (CPN 127439-1)

## Procedure:

1. Locate the bootstrap supply wire. This white wire runs from the bridge rectifier to WP6 on the main board.
2. Cut bootstrap supply wire approximately 6 inches $(15 \mathrm{~cm})$ from the end connected to the bridge rectifier. This will be approximately 8 inches ( 20 cm ) from the end connected to the main board at WP6.
3. Prep resistor. Hook both leads as shown in Figure 1.
4. Strip and prep both cut ends of the bootstrap supply wire. Slip a 1 -inch length of 4 -mm shrink tubing over the cut end of each wire. Slide back to expose cut end. Hook each wire in preparation for soldering. See Figure 9.4.
5. Solder each prepared end of the white bootstrap supply wire to the resistor.
6. Slide shrink tubing over solder joints and set in place using a heat gun. See Figure 9.5.
7. Slide supplied clip over resistor and mount in amplifier on the corner of transformer closest to the power supply capacitors using existing bolt. See Figure 9.6.


Figure 9.4 Boostrap Resistor Assembly


Figure 9.5 Bootstrap Resistor Installation


Figure 9.6 Bootstrap Resistor Installed

### 9.5 Channel 1 Output to Channel 2 Speakon Modification

Applicability: CE-1000, CE-2000, UT-1010, UT-2020, S2, S3, M-120 and M-240 amplifiers.

Purpose of Modification: By default, the Channel 1 Speakon connector has Channel 1 signal present on Pins 1+ and 1-, and Channel 2 signal present on Pins 2+ and 2-. The Channel 2 Speakon connector has Channel 2 signal present on Pins $1+$ and 1 -. Perform this modification to allow Channel 1 output signal to be present on Pins 2+ and 2- on the Channel 2 Speakon connector. Amplifiers come from the factory without this jumper installed, so normally Channel 1 output is not available from the Channel 2 Speakon.

## Procedure:

1. Solder a 14 AWG wire across the two solder pads indicated in Figure 9.7 below. This will route the Channel 1 output signal to the Channel 2 Speakon.

Caution: Before performing this modification, be sure that:

- Amplifier power is turned off and AC cord unplugged.
- All input and output connectors have been removed.
- Supply capacitors have been discharged as per the procedure detailed in Section 2.2 Cautions and Warnings, page 2-1.
- Because this amplifier contains surface mount components, all ESD safety precautions should be followed.


Front of Amplifier

Figure 9.7 Channel 2 Speakon Jumper

This page left intentionally blank

## 10 Schematics

### 10.1 General Information

The schematics provided are representative only. There may be slight variations between amplifier to amplifier. These schematics are intended to be used for troubleshooting purposes only. Please refer to Section 7, Module and Schematic Information, for assistance in selecting the correct schematic to reference for your amplifier.


$$
\begin{aligned}
& \text { INUSED ELEMENTS } \\
& \text { 细 } \\
& \text { Intive }
\end{aligned}
$$




BYPASS CAPACITORS


## INACTIVE








BYPASS CAPACITORS

INACTIVE
For Reference Use Only
Document Has Been Repp
with a Newer Version

M5Ea-E
IONAL



INACTIVE


LAST LSED OBSOLETED


K1.180


$=$

BYPASS CAPACITORS

## INACTIVE









BYPASS CAPACITORS





LAST USED DBSOLETED






BYPASS CAPACITORS
INACTIVE
For Reference Use Only
Document Has Been Replaced
with a Newer Version





䢒






ByPASS CAPACITARS
MS0日-E

INACTIVE









NOTES:

1. ALL RESISTORS ARE IN OHMS. 1/1日W, $5 \%$
2. ALL CAPACITORS ARE IN MICROFARADS

|  | Prints to |  |  | TLM $05-15-97$ <br> TLM 29-05-97 | Apeaveved er: |  |  | do not scale print |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5 |  |  |  | w |  |  | surenseme |  |  |
|  |  |  | Sche | nowe | E | pw | -99-85-97 | E.c. | 102567 |  |
|  |  |  | Pros. . | моз38 ${ }^{\text {d }}$ | ${ }^{\text {PE }}$ | Ts | 09-88-97 | ${ }^{\text {pwe. No }}$ |  | (D) |
|  |  |  | Filename: | 102567 D. SCM | NEXT ASSEmely: |  |  |  |  |  |
|  | 3 |  |  |  |  | 2 |  |  | 1 |  |


nates

1. ALL RESISTORS ARE IN OHMS. 1/IOW, 5\%
2. ALL CAPACITORS ARE IN MICROFARADS








BYPASS CAPACITORS
LEMB0





GYPASS CAPACITORS



[^0]:    * You can purchase the Speakon ${ }^{\circledR}$ NL4FC connectors from your local dealer, or contact NEUTRIK AG, Im alten riet 34, Schaan FL-9494, Furstentum Liechtenstein, 011-41-75-237-2424, FAX 011-41-75-2325393, www.neutrik.com or Neutrik USA, Inc., 195 Lehigh Ave., Lakewood, NJ 08701-4527, (908) 901-9488, Fax (908) 901-9608, www.neutrikusa.com or Crown International, Inc., 1718 West Mishawaka Road, Elkhart, IN 46517-4095, USA, 219-294-8000, FAX 219-294-8329, www.crownaudio.com.
    ** Your NL4FC connector kit should contain both a black and a white chuck. Use the white chuck for cable with a diameter of 0.25 - to $0.5-$ inch (6.35- to 12.7 mm ). Use the black chuck for cable with a diameter of 0.375 - to 0.625 -inch ( 9.525 - to $15.875-\mathrm{mm}$ ).

[^1]:    
    Aリ 促
    OF APPARATUS ON DEVICES WI THONT PERMIBSION．

