TECHNICAL MANUAL

GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

TEST SETS, TELEGRAPH AN/GGM-15(V)1 AND AN/GGM-15(V)2; ANALYZER, SIGNAL DISTORTION TS-2862/GGM-15(V)

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CHANGE

No. 1

HEADQUARTERS
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**GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL
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**TEST SETS, TELEGRAPH AN/GGM-15(V)1 AND AN/GGM-15(V)2
ANALYZER, SIGNAL DISTORTION TS-2862/GGM-15(V)**

TM 11-6625-1668-45-2, 3 May 1972, is changed as follows:

1. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar in the margin of the page. Added or revised illustrations are indicated by a vertical bar adjacent to the identification number.

Remove pages	*Insert pages*
i and ii	i and ii
1-1 and 1-2	1-1/(1-2 blank)
5-7 and 5-8	5-7 and 5-8
6-1 through 6-4	6-1 through 6-4
A-1/(A-2 blank)	A-1/(A-2 blank)
Figure 6-14	Figure 6-14
Figure 6-17	Figure 6-17
Figure 6-21 ①	Figure 6-21 ①

2. File this change sheet in the front of the publication for reference purposes.

By Order the Secretary of the Army:

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General, United States Army
Chief of Staff

Official:

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HEADQUARTERS
DEPARTMENT OF THE ARMY

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WASHINGTON, D.C., 3 May 1972

General Support and Depot Maintenance Manual (Including Repair Parts and Special Tools List) TEST SETS, TELEGRAPH AN/GGM-15(V)1 AND AN/GGM-15(V)2; ANALYZER, SIGNAL DISTORTION TS-2862/GGM-15(V)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-ME-PS, Fort Monmouth, New Jersey 07703-5000. In either case a reply will be furnished direct to you.

ILLUSTRATIONS

CHAPTER 1

GENERAL

1-1. Scope

a. This manual covers general support (GS) and depot maintenance for Analyzer, Signal Distortion TS-2862/GGM-15(V), a component of Test Set, Telegraph AN/GGM-15(V). It includes instructions for troubleshooting, testing, adjusting, and repairing the equipment, replacing maintenance parts, and repairing specified maintenance parts. Detailed functioning of the equipment is covered in chapter 2.

b. The complete technical manual for this equipment includes TM 11-6625-1668-12.

NOTE

For applicable forms and records, refer to TM 11-6625-1668-12.

1-2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest of DA Pam 25-30 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

1-3. Maintenance Forms, Records, and Reports

a. Reports of Maintenance and Unsatisfactory Equipment. Department of Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, as contained in Maintenance Management Update.

b. Reporting of Item and Packaging Discrepancies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/SECNAVINST 4355.18/AFR 400-54/MCO 4430.3J.

c. Transportation Discrepancy Report (TDR) (SF 361). Fill out and forward Transportation Discrepancy Report (TDR) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

1-3.1. Reporting Equipment Improvement Recommendations (EIR)

If your equipment needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about the design. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to Commander, US Army Communications Electronics Command and Fort Monmouth, ATTN: AMSEL-PA-MA-D, Fort Monmouth, New Jersey 07703-5000. We'll send you a reply.

1-3.2. Administrative Storage

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage, the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage is covered in paragraph 5-2.

1-3.3. Destruction of Army Electronics Materiel

Destruction of Army Electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

CHAPTER 2

FUNCTIONING OF EQUIPMENT

Section I. SYSTEM OPERATION

2-1. General

Test Set, Telegraph AN/GGM-15(V), is comprised of Generator, Signal SG-860/GGM-15(V), Analyzer, Signal Distortion TS-2862/GGM-15(V), and Oscilloscope OS-206/GGM-15(V). Hinged front panels on the major units provide access to fuses and printed circuit boards.

2-2. Major Components

The three major components of the AN/GGM-15(V) are completely self-contained. The OS-206/GGM-15(V) and TS-2862/GGM-15(V) function as a unit and may be used in conjunction with the SG-860/GGM-15(V).

a. The SG-860/GGM-15(V) will produce a test message, either clear or distorted, to simulate telegraph data signals. The SG-860/GGM-15(V) output can be selected as a repeated character, 1 to 1 reversals, or *quick brown fox* test message. Distortion is produced in 1-percent increments up to 49 percent marking, spacing, switching bias, marking, or spacing end. The output data signal is selected as 5, 6, 7, or 8 level code with a character length of from 7 to 16 bits. Both high and low-level outputs are available.

b. The TS-2862/GGM-15(V) is used to measure distortion on high- or low-level data signals without interrupting traffics. Average and peak distortion is measured on synchronous 5, 6, 7, or 8 level data signals. The distortion percentage is displayed through digital readout nixie tubes on the TS-2862/GGM-15(V) front panel. The TS-2862/GGM-15(V) also generates a low-level undistorted error code. Distortion can be introduced when the TS-2862/GGM-15(V) and SG-860/GGM-15(V) are in the proper modes of operation for such function. The error code is then available at both high- and low-level SG-860/GGM-15(V) outputs. Errors are detected and counted by monitoring the error code with another TS-2862/GGM-15(V).

c. The OS-206/GGM-15(V) receives a vertical input signal from the TS-2862/GGM-15(V) input circuits. The same signal presented to the TS-2862/GGM-15(V) is displayed on the cathode-ray tube (crt). Positioning gain and sweep controls facilitate display adjustment. Calibration signals are provided to aid in accurate wave shape analysis.

Section II. COMPONENTS FUNCTIONING

2-3. Block Diagram Analysis

(fig. 2-1)

a. General. The TS-2862/GGM-15(V) will detect and measure all types of telegraph distortion; bias or end average, total, early or late peak, cyclic, characteristic, or fortuitous. Distortion is measured on any or all transitions within a character or on individually selected transitions within a character. Transitions are selected by TRANSITION switch 2A1S10. The ability to measure distortion on individual transitions of a start-stop signal permits measurement of cyclic distortion and distortion due to speed error. When measuring synchronous signals, all transitions are measured. Start-stop signals of 5- to 8-level code and synchronous signals are analyzed without interrupting traffic. Both series low impedance and bridging high-impedance inputs are provided.

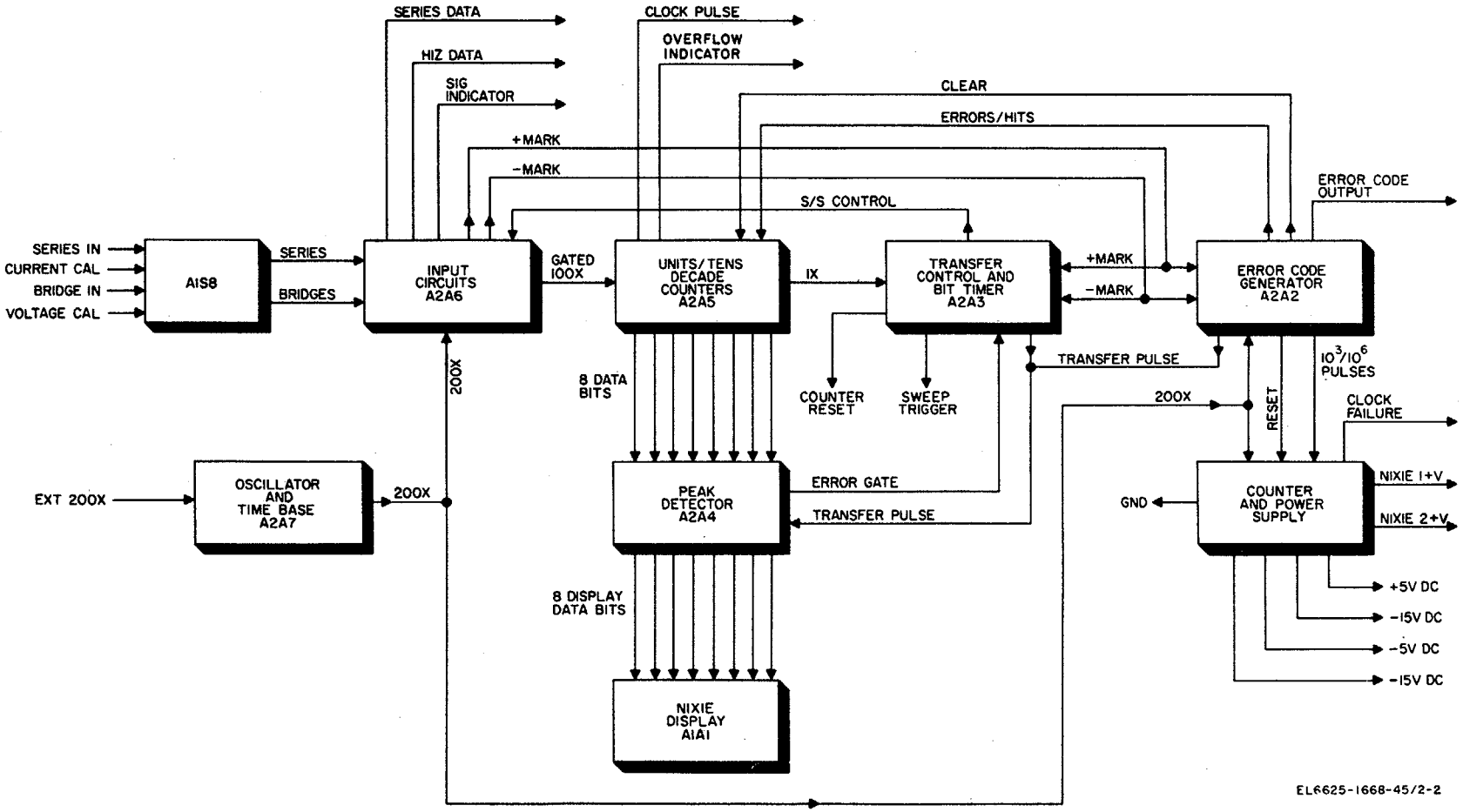


Figure 2-1. Analyzer, Signal Distortion TS-2862/GGM-15(V), simplified block diagram.

b. Signal Paths (fig. 2-2).

(1) Any one of four crystal controlled oscillators is selected by BAUD RATE switch 2A1S13 to provide the programmable divider with a timing input. This switch also has a position for an external 200 times baud rate input. The fourth oscillator is a spare and may be used for additional speeds.

(2) The programmable divider is a standard binary divider providing division rates of 1, 2, 4, 8, 16, 32, 64, 128, 192, and 256. Output frequencies of the programmable divider are always 200 times the selected baud rate.

(3) The input circuits accept either high- or low-level signals to be reshaped and converted to standard logic levels. All input signals are sampled at their midpoints for conversion to squared signals with transitions occurring at times corresponding to these midpoints. Filtering may be inserted at baud rates below 300 to eliminate noise and contact bounce from the signal.

(4) The synchronizer circuits in assembly 2A2A6 synchronize data signals with oscillator timing, and provide a timing signal at 100 times the baud rate to the decades.

(5) The output of the synchronizer is applied to the input of the units/tens decades (2A2A5). The tens decade is gated to produce an output (early-late) after a count of 49. This output makes the units and tens decades appear to count up during the first half of the early-late signal and down during the second half. The outputs of these gates are applied to the peak detector in 2A2A4. The output of the 2X gate is applied to bit counter 2A2A3 and the error code generator (2A2A2).

(6) The peak detector circuits (2A2A4) contain the nixie registers for units and tens, and the gates to compare the number stored in the register with the number in the units and tens decades.

(7) The transfer control and bit counter (2A2A3) recreate a theoretically correct input signal and determine the transition to be measured and the type of distortion (bias, end, total, early, or late).

(8) The function of error code generator 2A2A2 is to produce a signal pattern without distortion for comparison with a similar incoming signal pattern An error is recorded in an error counter, while the number of bits for which this error takes place is stored in three or six decades. After the selected number of bits has been stored in the decades, the error code generator is inhibited.

2-4. Unit Functioning
(fig. 2-2)

a. Oscillator and Time Base 2A2A7 (fig. 6-19). The assembly contains four oscillators and a programmable divider. The oscillator to be used is selected by the BAUD RATE switch which applies +15 volts direct current (dc) to the appropriate oscillator enable pin (chart below). The division is selected by applying +6 volts (dc) to- the gate associated with the flip-flop at the correct division point. Inverters Z916 and Z8I2 may be used for additional reset. Gate Z4G2 applies the output of the programmable divider to the units and tens decades.

b. Input Circuits 2A2A6 (fig. 6-18). The input circuits accept either high- or low-level inputs. Each high-level input circuit (20N, 20P, and 30P) presents the telegraph line with an impedance of approximately 300 ohms. The 60N input circuit presents the telegraph line with an impedance of approximately 67 ohms. The low level bridging input presents the telegraph line with an impedance of approximately 50,000 ohms. Filter capacitor C13 is switched in and out by FILTER switch 2A1S9. At speeds above 150 baud, the filter is automatically removed by BAUD RATE switch 2A1S13

(1) The input circuits include two isolators (dc-to-dc converters) that are connected in opposite polarities across the SERIES INPUTS jack at all times. In polar operation, each isolator responds to input current flow, producing an output voltage for both mark and space signals. Only one isolator is used during neutral operation. The isolator output is developed across a full-wave bridge and applied to input amplifier Z7 through the BAUD RATE, MARK POLARITY, and INPUT switches. When the bridging input is used, the signal is applied directly to the input amplifier. The output of Z7 is squared through

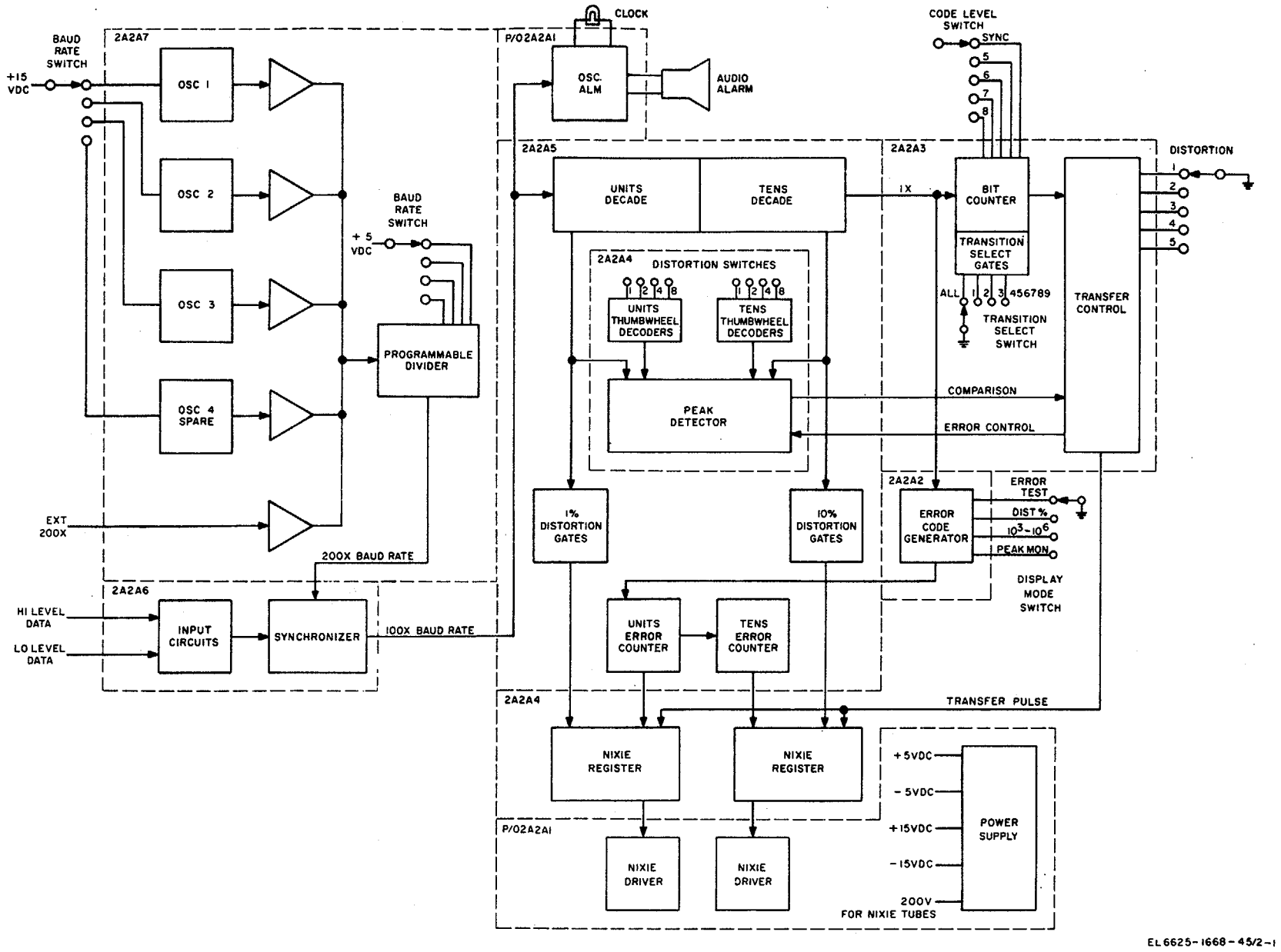


Figure 2-2. Analyzer, Signal Distortion TS-2862/GGM-15(V), detailed block diagram.

BAUD RATE switch position	*Crystal designation*	*Crystal frequency (k Hz)*	*Oscillator enable pin*	*Division ratio*	*Output gate*	*Output gate* enable *pin*
Spare	Y4	Optional	P	Optional	Z4G1	13
37.5	Y3	1920	22	256	Z7G3	T
45.45	Y1	145.440	Y	16	Z4G4	9
50	Y3	1920	22	192	Z7G3	T
61.12	Y2	195.584	21	16	Z4G4	9
75	Y3	1920	22	128	Z7G1	V
150	Y3	1920	22	64	Z7G4	U
300	Y3	1920	22	32	Z4G3	16
600	Y3	1920	22	16	Z4G4	9
1200	Y3	1920	22	8	Z2G3	3
2400	Y3	1920	22	4	Z2G4	4
4800	Y3	1920	22	2	Z2G2	E
9600	Y3	1920	22	1	Z2G1	D
EXT	-	-	-	1	Z2G1	D

Note: Z4G1 is strappable for division ratio available on 2A2A7.

Q6 and presented to the marking sense control logic (Z5 and Z6) to provide the positive (+) and negative (-) outputs.

(2) The input data signal provides a positive mark (1) at TP1, regardless of the polarity of the incoming mark. To accomplish this, MARK POLARITY switch 2A1S2 applies +6 volts (dc) to 2A2A6, pin 14, in the-position and enables Z6G1. In the + position of 2A1S2, -5.5 volts dc is applied to 2A2A6, pin 14, and Z6G3 is enabled. If the input data signal supplies a positive mark, 2A1S2 is placed in the + position, applying a-5.5- volt (dc) bias to 27. The output of Z7 is negative for a mark. The mark is inverted through Q6 and applied to Z6G3 and through inverter Z5I3 to Z6G1. The MARK POLARITY switch, in the + position, enables Z6G1 and disables Z6G3. Gate Z6G4 is also enabled at this time as DISPLAY MODE switch 2A1S4 is in the DIST (%) position. The output at TP1 is therefore 1 when the input signal is a mark. The data signal at TP1 is then applied to lamp driver Q5, the synchronizer, and to transfer control logic assembly 2A2A3. When DISPLAY MODE switch 2A1S4 is in the TEST MODE position, Z5I2 is enabled. This action disables the data input and enables the error code on assembly 2A2A6, pin C.

(3) Amplifier Z8 is used to shape the data signal applied to the series input of the TS-2862/GGM-15(V) before it is presented through emitter follower Q7 to the OS-206/GGM-1 5(V).

(4) The synchronizer operates when CODE LEVEL switch 2A1S7 is at SYNC or when DISPLAY MODE switch 2A1S4 is in TEST MODE 10^3 or 10^6, and is used when analyzing signals that do not have start-stop-type structures. To lock the internal timing signal of the TS-2862/GGM-15(V) to the phase and frequency of the incoming synchronous signal, the synchronous signal is compared with the timing signal. This comparison causes pulses to be either added to or subtracted from the timing signal. If transitions on the input signal occur late, pulses are subtracted to delay the internal timing. Transitions occurring early cause pulses to be added. To achieve the addition and subtraction of these pulses, the timing signal is applied to Z1FF2 and through inverter Z2I5 to Z3FF1. The data signal applied to Z1FF1 clocks flip-flop Z1FF1-Q to 1, enabling Z1FF2. The 200 times baud rate signal applied to Z1FF2 then clocks Z1FF2-Q to 0, disabling Z4G4 and setting Z1FF1-Q to 0. When Z4G4 is disabled, Z3FF2 does not receive a clock pulse and subtracts one

pulse from the timing signal. The 1 output from Z1FF2-Q now enables the J. K inputs of Z3FF1. Flip-flop Z3FF1, clocked through inverter Z2I5 by the timing input, enables Z4G3. The next negative timing pulse clocks Z3FF1-Q back to 0, setting Z1FF2-Q to 1. This action produces a negative timing pulse to drive the units decade if the add 2 control input (2A2A6, pin 5) is 1 (fig. 2-3).

c. *Units/Tens Decade Counters 2A2A5 (fig.* 6-17).

(1) The units and tens decades consist of two identical high-speed decades. In each decade, the flip-flop enable gates allow each stage of the decade to be triggered by the same clock pulse. Gates Z7G1, Z7G3, and Z7G4 combine the outputs of the tens decade to produce a 2 times

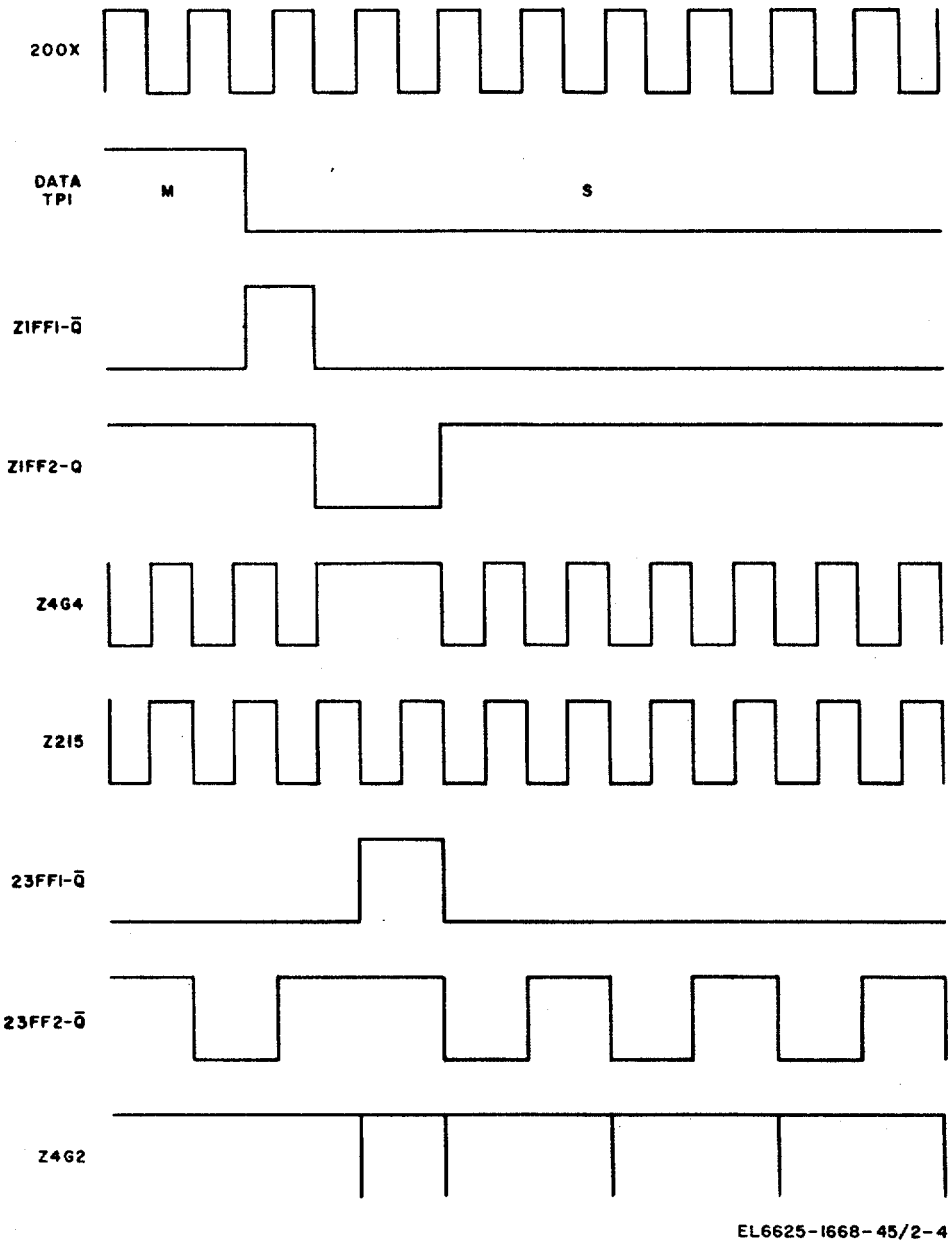


Figure 2-3. Synchronizer timing chart.

baud rate signal (not early) at TP3 and pin Z. The inverted signal at the output of Z8I1 enables the count up gates (Z3G2, Z6GA, Z3G3, Z16G2, Z12G1) during the count from 1 to 50, while the output of Z8I2 enables the countdown gates (ZlG1, Z16G3, Z3G4, Z16G1, Z14G4) during the count from 50 to 100. The outputs of the up-dour gates (gates 1, 4, 8, 10, 40) are presented to the peak detector on assembly 2A2A4. Both the normal (not early) and inverted (late) 2 times baud rate signals are presented to bit counter assembly 2A2A3. The outputs of the units decade provide timing at 10 times the baud rate for error code generator assembly 2A2A2. The outputs of gates Z19, Z16, and Z12 are applied to the units and tens nixie drivers (2A2A4) when DISPLAY MODE switch 2A1S4 is at DIST (%).

(2) Units and tens error code counters Z17 and Z18 receive an input signal (not hits) on pin M and a reset signal (not transfer) on pin X. Output gates Z20 and Z15 are enabled in all positions of DISPLAY MODE switch 2A1S4 except DIST (%). The outputs of these counters are then applied to units and tens nixie registers an assembly 2A2A4.

d. Peak Detector 2A2A4 (fig. 6-16). This assembly includes the thumb wheel decoding gates, with tens nixie registers and peak detect gates.

(1) The thumbwheel decoding gates decode the number selected by THRESHOLD % DISTORTION switch 2A1S6. These gates are enabled at pin D for all positions of the DISPLAY MODE switch except DIST (%). If the number selected by 2A1S6 is greater than the number stored in the nixie registers, the peak detector is disabled. The output of TP2 will then be 0 until a number greater than that selected by 2A1S6 is transferred to the nixie registers.

(2) The units and tens nixie registers store the number transferred from the units and tens decades. The transfer occurs whenever a transfer pulse is applied to pin 21. The output is compared with the number in the running decades in the DIST (%) position of the DISPLAY MODE switch. In all other positions of the DISPLAY MODE switch, the nixie register output is compared with both the running decades and the thumbwheel decoding gates. The nixie registers also provide inputs for the nixie drivers on assembly 2A1A1.

(3) The peak detector produces a coincidence output pulse 1 at pin W (TP2) whenever the number in the running decades is equal to the number stored in the nixie registers.

e. Transfer Control and Bit Counter 2A2A3 (fig. 6-15). This assembly includes the bit counter and transfer control logic. The input to the bit counter is a signal at the baud rate applied to pin 8. The transfer control logic converts the input signal into transitions and determines which of these transitions (type of distortion) (fig. 2-4) will be measured.

(1) The bit counter is a conventional four-stage synchronous binary counter. Outputs from the bit counter are applied to both transition detect and code level detect gates. When a transition is selected, the TRANSITION switch causes all the transition detect gates to be disabled during the time that the selected transition appears on the data signal. When the transition select gates are enabled, they disable both inputs to Z6G3. The output of gate Z6G3 is now 0, 1/2 bit before and 1/2 bit after every incoming space-to-mark (S/M) transition.

(2) The code level detect gates will all be disabled when the bit counter has counted the number of bits required by the position of CODE LEVEL switch 2A1S7. The output of Z13G4, now 0, disables Z13G2, enabling Z13G3 to reset the bit counter when the next S/M transition on the data signal occurs. Gate Z13G4 also provides the 100 times baud rate inhibit signal for synchronizer assembly 2A2A6, pin 3.

(3) Peak transfer pulse generator Z9FF1 produces transfer pulses on every S/M transition when the DISTORTION switch is in the BIAS S/M, TOTAL, EARLY, or LATE position, and on every mark-to-space (M/S) transition when the DISTORTION SWITCH is in the END M/S, TOTAL, EARLY, or LATE position. These pulses are applied to gate Z13G1 which is disabled during the stop pulse. The output of gate Z13G1 is applied to Z10G2, which is enabled only when measuring peak distortion and only when the transfer pulses represent an increase in the level of distortion. Early and late transitions are

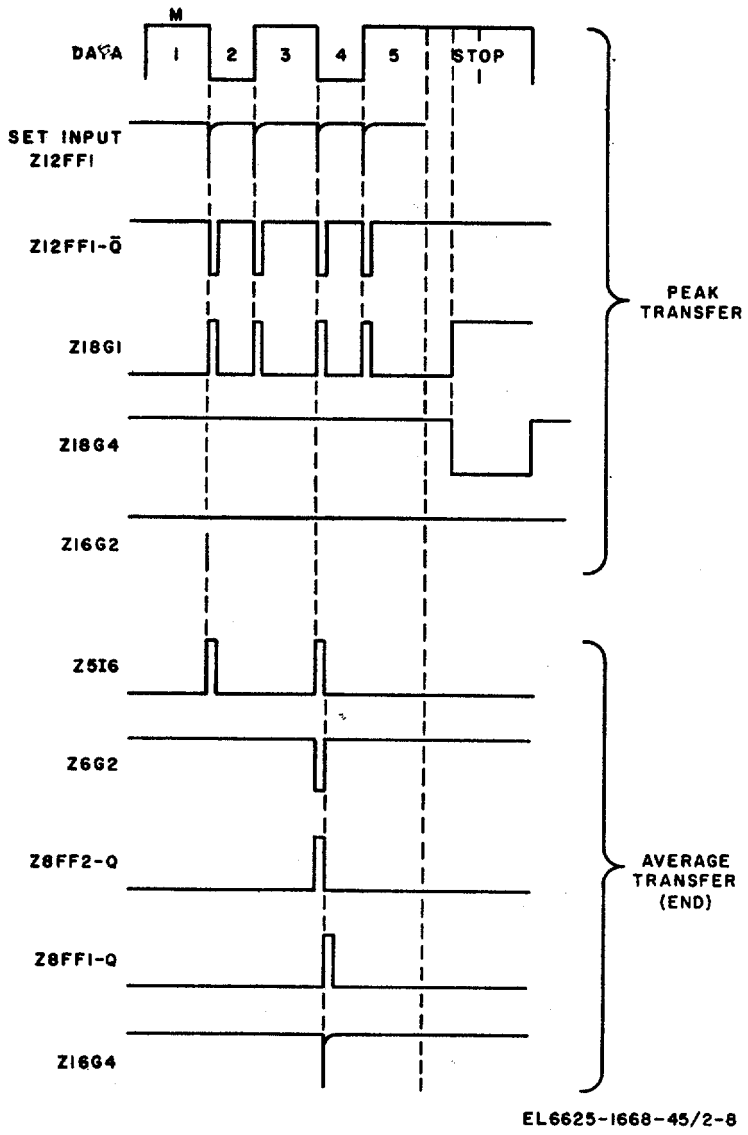


Figure 2-4. Transfer timing chart.

controlled by the state of Z10G4 and Z10G3. Average and peak transitions are controlled by the state of Z12G4 and Z12G1.

(4) The averager enables Z7FF1 to produce transfer pulses whenever the nixie is to be updated. This action is accomplished by adding or subtracting distortion in 1-percent increments until the correct distortion level is reached. Two consecutive data transitions are required before the nixie can be updated. Flip-flops Z2FF1 and X2FF2 count consecutive transitions when distortion *is* added while Z3FF1 and Z3FF2 count transitions when distortion *is* subtracted. If the output of the peak detect gate represents an increase in distortion, flip-flop Z4FF1-Q will be clocked to 0. enabling Z1G3. The transfer pulses at the output of Z9FF1-Q are applied to Z1G3 through Z6G1 and Z516. The 0 output of Z1G3 clocks Z3FF1 and, after two consecutive transitions, Z7FF2-Q is set to 1 through Z6G2. Within 1/100 of a bit, Z7FF1-Q is set to 1 by Z7FF2; therefore, Z12G4 produces one transfer pulse for every two consecutive transitions.

(5) Flip-flop Z4FF2 controls the mark and space lamps through drivers Q1 and Q2.

(6) In all positions of the DISPLAY MODE switch, except DIST (%), flip-flop Z9FF2 produces transfer pulses (hits) which are enabled by gate Z8G1.

f. Error Code Generator 2A2A2 (fig. 6-14). This assembly contains the reset circuits, error code detect counter, and error code generator.

(1) The auto reset circuit (Q1, Q2, Q3) provides reset pulses at approximately 5-second intervals when the emitter of Q1 is grounded. Transistors Q1 and Q3 form a one-shot multivibrator. Transistor Q2 acts as an emitter follower.

(2) The output of the reset flip-flop (Z15FF1-Q) is normally 0. Whenever a clear pulse is applied to Z15FF1 (SP), the Q output is 1 (reset) and remains 1 until the next clock pulse sets Z15FF1-Q back to 0. The differentiated output of Z15FF1-Q is applied through inverters Z1415 and Z1411 to flip-flop Z12FF1. The Q output of the flip-flop is now clocked to 0, enabling Z13G4 and Z5G3. The 2 times baud rate signal at pin S is applied to the error code detect counter and the error code generator through emitter follower Q6.

(3) The error code generator (shift register) will produce a 2047-bit, pseudorandom message, the output of which is compared to the incoming error code. In all positions of the DISPLAY MODE switch, except TEST MODE, gates Z1G1 and Z1G2 are disabled and Z103 and Z5G4 are enabled, allowing both the plus (+) mark and minus (-) mark error code signals to be compared with the incoming error code at gates Z13G2 and Z16G4. These gates produce a reset pulse for the error code detect counter whenever the internally generated error code is not in coincidence with incoming error code. The error code detect counter is continually reset until both internal and external error codes are synchronized, at which time the error code detect counter is allowed to detect a binary count of 15 and reset Z12FF1-Q to 1. When Z12FF1 is reset, gates Z13G4 and Z5G3 are disabled and Z13G1, Z1701, and Z17G2 are enabled. The output of the error code generator is therefore coupled back through Z13G1 to its own input. The 10-times baud rate signal (counter 8) on pin Y assures a data shift within 1/10 of a bit at Z12FF2. All other flip-flops within the error code generator are synchronized to shift data with the 2-times baud rate (2X) signal.

(4) When the incoming error code and the internally generated error code are not in coincidence, gates Z13G2 and ZI6G4 produce an output which is applied to Z16G1. Gate Z16G1 is enabled by the output of the peak detect flip-flop (limits) on assembly 2A2A3. The output of Z16G1 provides hit pulses that reset the error code detect counter. The hit pulses also clock the error counter on assembly 2A2A5 after internal and external error codes have been synchronized and Z17G1 is enabled. Gate Z17G2, also enabled at this time, allows timing at 2 times the baud rate to clock the 103 and 106 counter on assembly 2A2A1. When the 103, 106 counter has counted 103 or 106 (controlled by DISPLAY MODE switch 2A1S4), flip-flop Z15FF2 is clocked, disabling the outputs of both Z17G1 and Z17G2 through Z14I3 and Z1414. The flip-flop will remain Z15FF2-Q to 1 until RESET switch 2A1S3 is placed in the AUTO or MAN position. The TEST MODE position of the DISPLAY MODE switch enables the last flip-sop in the error code generator (Z2FF1) to be reset, through transistor Q5, after every 2047th bit. When power is first turned on, the collector of transistor Q4 is 1, causing Z2FF1 to be reset. Capacitor C6 charges until Q4 is turned on, removing the reset.

(5) The polar output circuits (Q7, Q8, Q9) convert the output of the error code generator to +6 volts (dc) and-6 volts (dc)

g. Nixie Display 2A1A1, (fig. 6-10). This assembly includes the nixie drivers and nixie tubes.

(1) The nixie drivers accept 1-2-4-8 binary coded decimal inputs, and produce 10 mutually exclusive outputs which directly control the ionizing potentials of the nixie tubes.

(2) The nixie tubes are ultralong life, high quality, cold-cathode indicator tubes, each with a common mode. Each tube can display the numerals 0 through 9. A current-limited anode voltage of +200 volts dc is applied to V1 at pin 9 and Y2 at pin 12.

h. Error Counter and Oscillator Alarm Circuits 2A2A1 (fig. 6-13). This assembly includes the error timing counter, oscillator alarm circuits, and power supply. The power supply is discussed in paragraph 2-5.

(1) The error counter consists of six decades (Z1 through Z6), input driver transistor Q13, and reset driver Q12. The counter is used in either the 103 or 106 positions of DISPLAY MODE switch 2A1S4. An input signal of 2 times the baud rate (error time) is applied to pin Y after the external and internal error codes have been synchronized. The counter then counts up to 103 or 106 as determined by the position of the DISPLAY MODE switch. The outputs of the counter at pins 22 and Z are applied to 2A2A2, pin 19, which causes the input to the error counter to be disabled. The counter is reset at pin V whenever the error code detect counter on assembly 2A2A2 detects a binary count of 15. The strap to +5.5 volts (dc) is inserted after power supply adjustments have been made.

(2) The oscillator alarm circuits provide an indication of oscillator failure. An input signal of 20p times the baud rate (200X) is applied to pin 16. Each time transistor Q7 is turned on, the voltage across CR13 drops. The average (dc) voltage established at the base of Q8 is too low to turn the transistor on. The output of transistor Q8 is therefore 1 and does not supply Z7FF1 with a clock pulse and does not indicate an oscillator alarm. However, when the input signal to the base of Q7 is removed, the transistor is turned off, allowing the base voltage of Q8 to increase. As the base of Q8 becomes more positive, the transistor is turned on. The output of Q8 now provides the clock pulse for Z7FF1, which turns on Q11 and drives the audible alarm. The 0 output of Q8 is also inverted by Q9 to turn on Q10, which drives CLOCK alarm lamp 2A1DS6. Flip-flop Z7FF1 is reset through switch 2A1S12, which applies a 0 to pin 19 when in the DISABLE and ALARM RESET positions.

2-5. Power Supplies

a. Ac Power (fig. 6-20). The TS-2862/GGM-15(V) requires an external 115 to 230-volt alternating-current (ac), single-phase, 47-to 63-Hertz (Hz) power source. The primary power is applied through rear panel jack 2A3J4. The chassis ground is applied to 2A3J4-3. Primary power is applied to 2A3J4-1 and 2A3J4-2. Terminal 1 of J4 is connected to POWER switch 2A1S1-2 through choke 2A3L1 and fuse 2A2F1 (bridged by a blown fuse indicator). Terminal 2 of J4 connects the other side of the primary power to 2A1S1-1 through choke 2A3L2 and fuse 2A2F2 (bridged by a blown fuse indicator). The primary power at 2A1S1-3 and 2A1S1-4 is connected to 2A3T1 terminals 1 and 3, respectively. Neon lamp 2A1DS2 illuminates when power is applied to the primary windings of transformer 2A3T1. The secondary windings of transformer 2A3T1 provide ac power to the (dc) power supplies in assembly 2A2A1.

b. Dc Power (fig. 6-13). This assembly contains the +5.5-volt,-5.5-volt, +15-volt,-15-volt, and +200-volt (dc) power supplies.

(1) The +5.5-volt (dc) power supply is full wave series-regulated and supplies +5.5 volts (dc) to the TS-2862/GGM-15(V) logic. The ac power is applied to the rectifiers at pins B and C of assembly 2A2A1. The rectifiers, filter circuit, and regulating transistor 2A3A1Q1 are on rear panel 2A3. The remaining portion of the regulating circuit is on the assembly. The unregulated circuit is on the assembly. The unregulated +6.5 volts is applied to the regulator at pins 3 and 4. The output voltage level is changed by adjusting potentiometer R7. The adjustment of this potentiometer changes the bias on transistor Q1. When the bias is increased, Q1 will conduct more and decrease the base voltage of Q2. Therefore, Q2 will conduct less and increase the base voltage of 2A3A1Q1 (fig. 6-20). The output voltage decreases as 2A3A1Q1 conducts less. A change in the external load will reflect a change in the bias of Q1 and therefore regulate the output.

(2) The-5.5-volt (dc) power supply is series regulated and supplies -5.5 volts (dc) to the TS-2862/GGM-15(V) logic. This power supply operates the same as the +5.5-volt (dc) supply, except that all voltages are negative.

(3) The crowbar on assembly 2A2A1 is a built-in safety circuit for the +5.5-volt (dc) supply, and protects the integrated circuits from overvoltage conditions. If the output voltage exceeds 7.1 volts, Q6 will conduct and present a positive voltage to the gate of silicon-controlled rectifier SCR1. A positive gate will cause SCR1 to fire, shorting the +5.5-volt output to ground, which causes fuse 2A2F3 to blow.

(4) The +15-volt dc supply is full-wave series-regulated and supplies +15 volts (dc) to the input amplifiers, oscillators, error code generator, and indicator lamps (except POWER). The ac power is applied to the +15-volt rectifiers at pins D and E, filtered by capacitor C6 and resistor R1, and presented to regulator Q5. The base of transistor Q5 is clamped at +15 volts by breakdown diode CR8. If the output voltage drops, the base of Q5 becomes more positive with respect to the emitter, and the transistor conducts more. As the output voltage rises, the base of Q5 becomes more negative with respect to the emitter, and the transistor conducts less.

(5) The -15-volt (dc) power supply is half wave shunt-regulated and supplies -15 volts (dc) to the input amplifiers on assembly 2A2A6. The ac power is applied to the -15-volt rectifier at pin 4, filtered by capacitor C7 and resistor R24, and regulated by Zener diode CR15. When the output voltage rises, the breakdown diode conducts more, causing the output voltage to remain at -15 volts (dc) If the load increases, the breakdown diode will conduct less, therefore supplying more load current.

(6) The +200-volt (dc) supply is half-wave regulated and provides the high voltage to drive the nixie tubes, assembly 2A1A1, The ac power is applied to the +200-volt rectifier at pin 5, filtered by capacitor C8, shunt-limited by resistor R25, and series-limited by resistors R26 and R27.

CHAPTER 3

TROUBLESHOOTING

Section I. GENERAL TROUBLE SHOOTING INFORMATION

3-1. General Instructions

WARNING

Dangerous voltages exist in the power supply circuits of this equipment. Handle with caution.

a. Maintenance procedures at general support category include all techniques outlined for organizational maintenance and any special or additional techniques required to isolate a defective part. The general support maintenance procedures are not complete in themselves but supplement the organizational maintenance procedures described in TM 11-6625-1668-12. The systematic troubleshooting procedures, which begin with the operational and sectionalization checks, must be completed by further localizing and isolating techniques.

b. Troubleshooting may be performed with the equipment operating as a unit, thereby making use of its other units for detecting symptoms of fault. Most of the equipment circuits are mounted on removable circuit cards. An extender card is provided to assist the repairman in reaching parts for measurements while the equipment is operating. When chassis-mounted parts are to be tested, the unit must be removed from its rack and the cover panels removed for access to these parts.

c. When troubleshooting the TS-2862/GGM-15(V), remove the top cover panels, swing open the hinged front panel for visual inspection and access to internal parts.

3-2. Organization of Troubleshooting Procedures

a. General. The first step in servicing a defective equipment is to sectionalize the fault. Sectionalization means tracing the fault to the major component. The second step is to localize the fault. Localization means tracing the fault to the defective subchassis, assembly, subassembly, or submodule (fig. 6-13 through 6-20). Isolation means tracing the fault to the defective part. Some faults, such as burned-out resistors and arcing or shorted transformers can often be isolated by sight, smell, or hearing. The majority of faults, however, must be isolated by checking wave shapes, voltages, and resistances.

b. Sectionalization. After the trouble has been sectionalized, make an operational test (para 3-5) with the suspected unit disconnected from the system and the power on. Perform a continuity test with the power off in cases where an operational test does not apply (para 3-6). The operational test serves as a check of the sectionalizing test. It is another indication of whether or not the unit is functioning properly.

c. Localization. The tests listed below will aid in localizing the trouble. First, localize the trouble to a subchassis, assembly or subassembly, or to a submodule, and then isolate the trouble by wave shape analysis, voltage, resistance, or continuity measurements. The trouble symptoms listed in the troubleshooting chart (para 3-7) will aid in localizing trouble to a component part.

d. Isolation.

(1) *Voltage and resistance measurements.* This equipment is transistorized. Observe all cautions given to prevent transistor damage. Make voltage and resistance measurements in this equipment only as specified. When measuring voltages, use tape or sleeving to insulate the entire test probe, except for the extreme tip. A momentary short circuit can ruin a transistor. Use resistor and capacitor color codes (fig. 6-11 and 6-12) to find the correct value of components. Use voltage and resistance diagrams to find normal readings, and compare them with the readings taken.

(2) *Intermittent troubles.* In all tests, the possibility of intermittent troubles should not be overlooked. If present, this type of trouble often may be made to appear by tapping or jarring the equipment. Check the wiring, soldering, and connections to the units.

(3) *Waveform analysis* (fig. 3-1 through 3-7). This equipment is provided with test points on each assembly, 2A2A1 through 2A2A7. The test points aid localization and isolation of troubles. Note the instructions accompanying each waveform.

3-3. Test Equipment Required

The chart below lists the test equipment required for troubleshooting the TS-2862/GGM-15(V). Also it lists technical manuals associated with each equipment

Test equipment or tool	*Technical manual*
Generator, Signal SG-860/GGM-15(V)	TM 11-6625-1668-12
Power Supply PP-3941/G	TM 11-6130-242-15
Counter, Electronic, Digital Readout AN/USM-207	TM 11-6625-700-10
Multimeter AN/PSM-6B	TM 11-6625-475-10
Generator Pulse AN/UPM-15	TB 9-6625-949-50
Oscilloscope AN/USM-281	TM 9-6625-2362-12

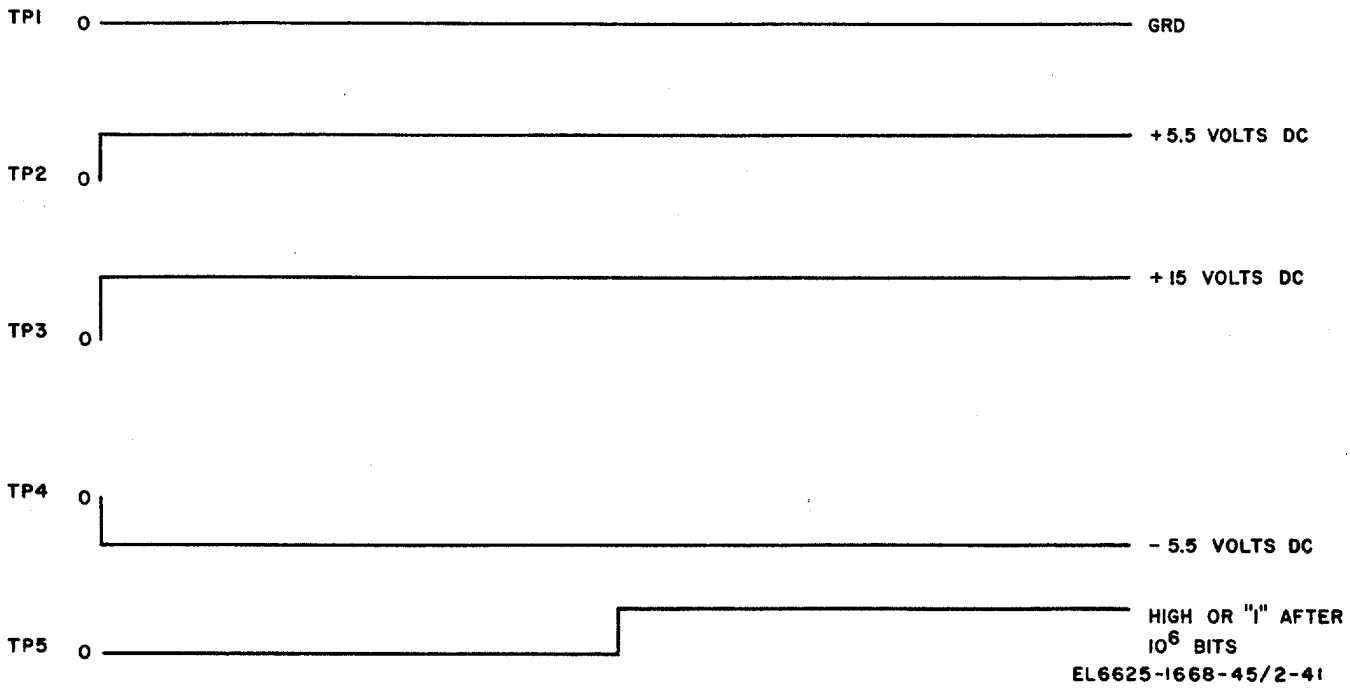


Figure 3-1. Counter and power supply 2A2A1, timing diagram.

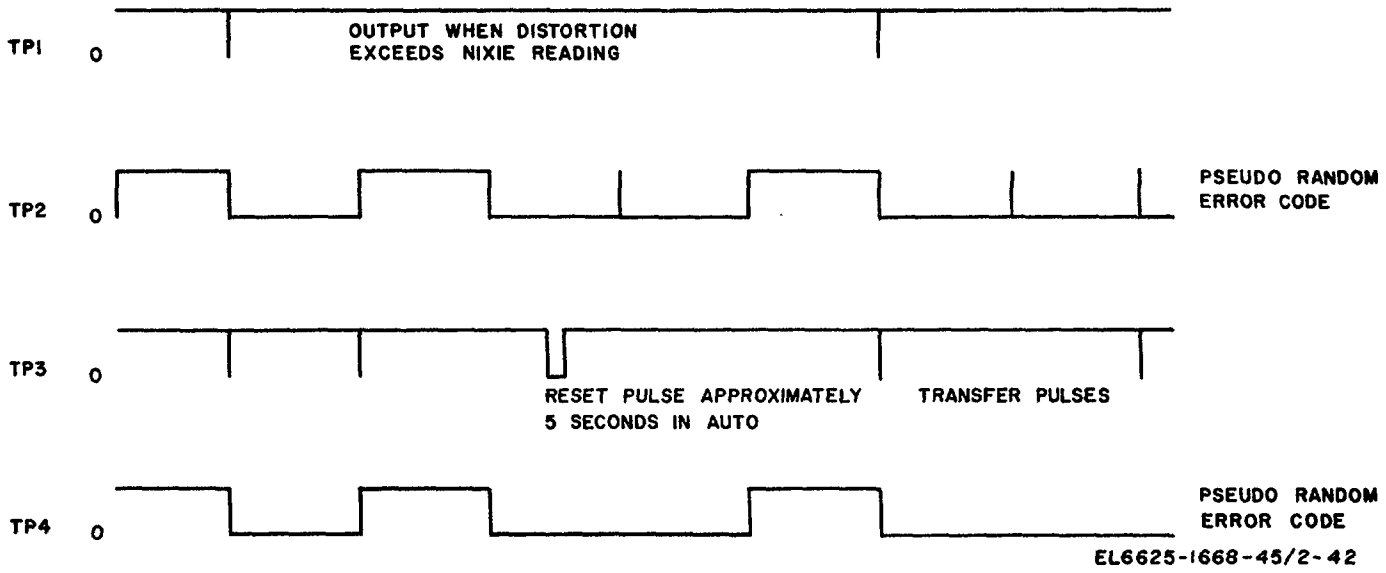


Figure 3-2. Error code generator 2A2A2, timing diagram.

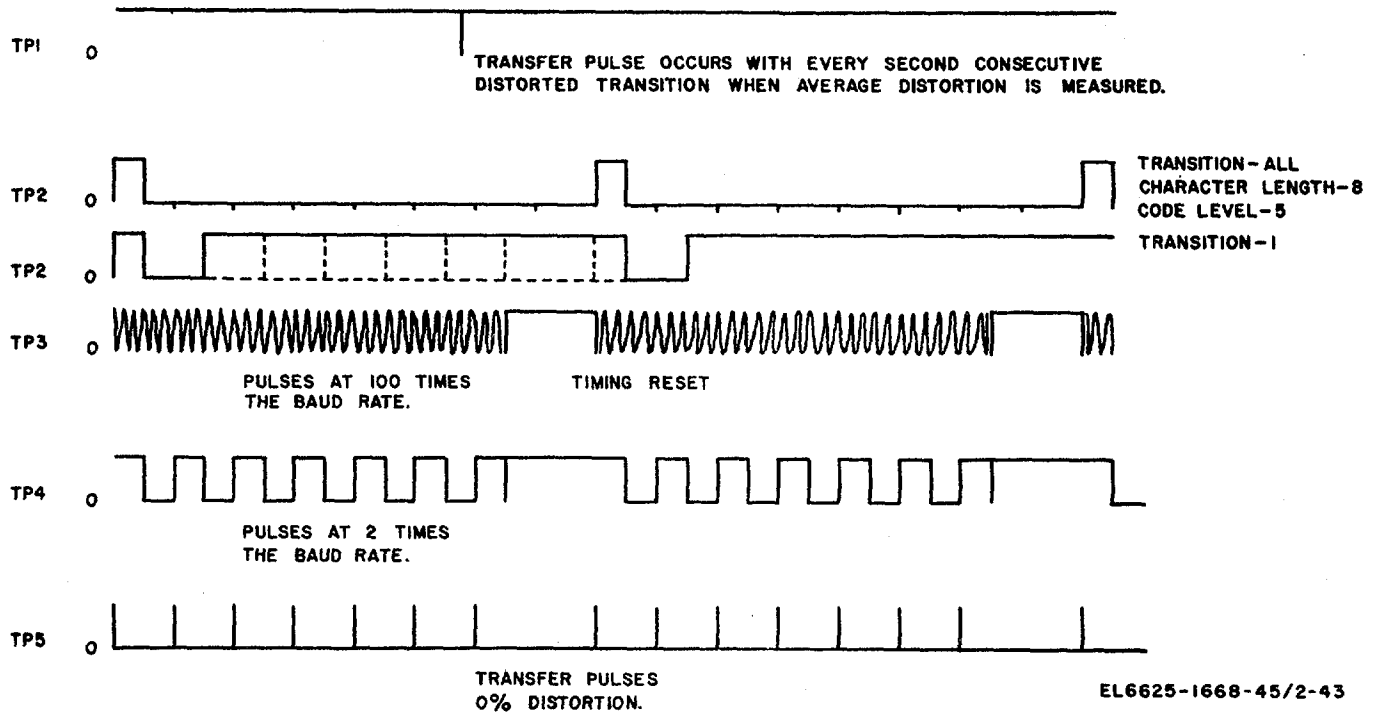


Figure 3-3. Transfer control and bit counter 2A2A3, timing diagram.

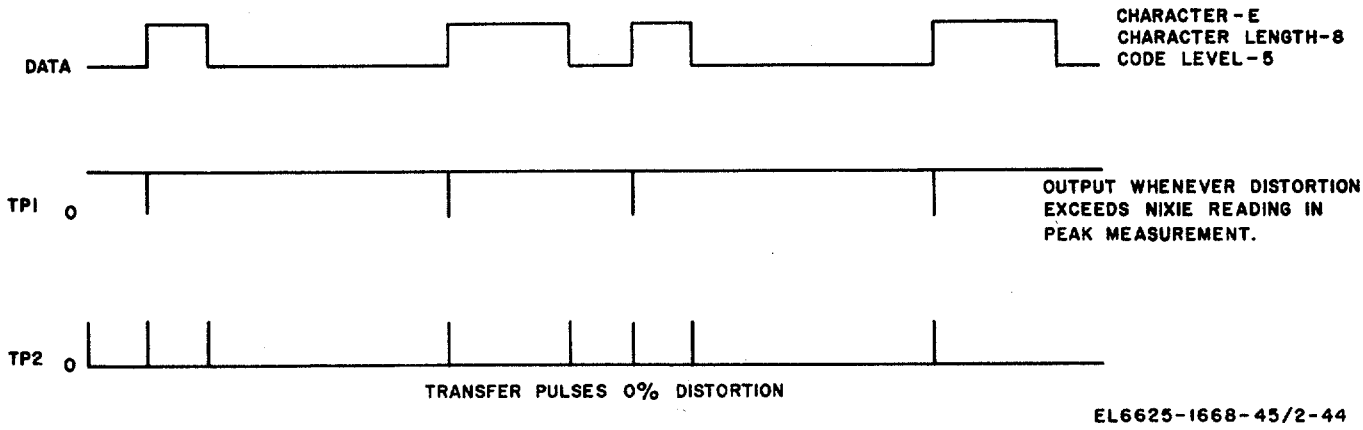


Figure 3–4. Peak detector 2A2A4, timing diagram.

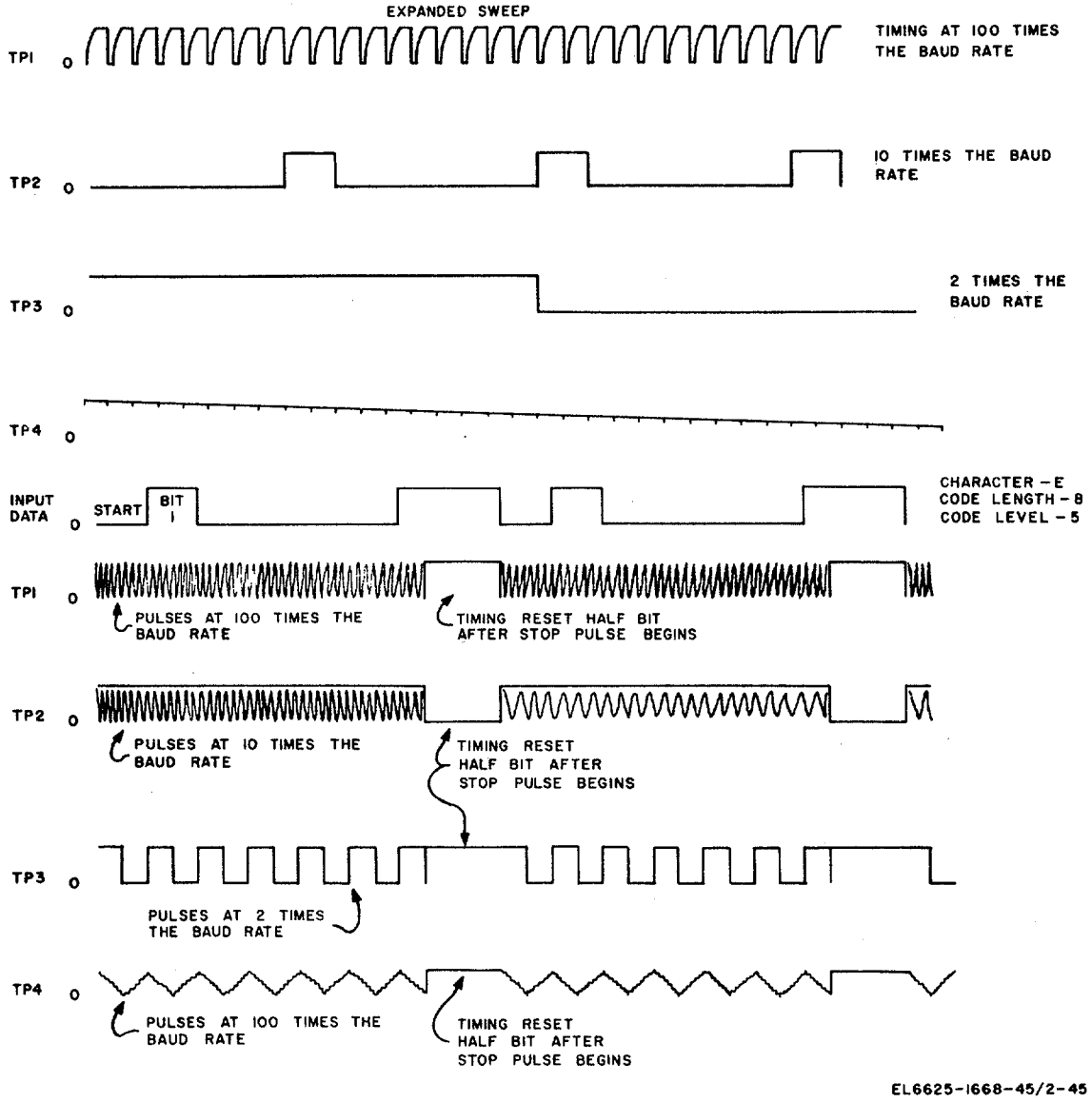


Figure 3-5. Units/tens decade counters 2A2A5, timing diagram.

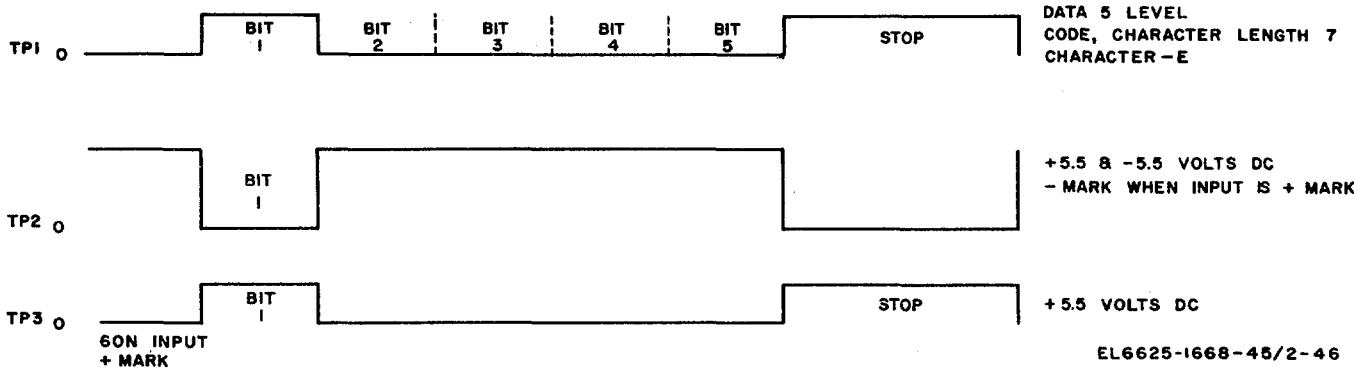


Figure 3–6. Input circuits 2A2A6, timing diagram.

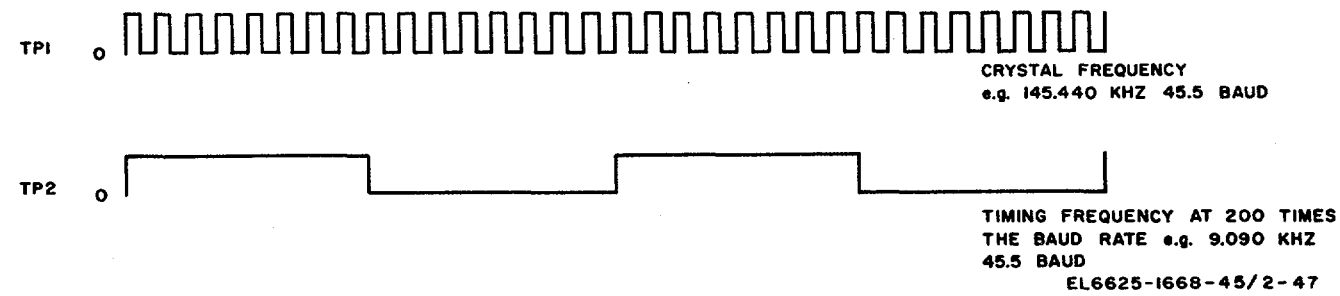


Figure 3-7. Oscillator and time base 2A2A7, timing diagram.

Section 11. TROUBLESHOOTING

3-4. Operational Pretest Setup

The TS-2862/GGM-15(V) is interconnected to Generator, Signal SG-860/GGM-15(V) and Oscilloscope OS-206/GGM-15(V) during interrelated tests by either front panel or rear panel test leads or interconnecting cables or both. Refer to TM 11-6625-1668-45-1 for this test. The test setup figures show front panel connections that need not be made if the rear panel cable is properly interconnected.

3-5. Operational Test

To test the TS-2862/GGM-15(V) for its operational characteristics, test setups are provided and may be performed in any sequence to localize a trouble. For a complete checkout, all test setups must be used; start with figure 3-8 and proceed through figure 3-13. Before starting a test, the TS-2862/GGM. 15(V) front panel controls must be set in the starting positions in accordance with the chart below:

Switch	Position
POWER	OFF
MARK POLARITY	(-)
ALARM	OFF
DISPLAY MODE	DIST (%)
THRESHOLD % DISTORTION	0 0
CODE LEVEL	5
INPUT	SERIES 60N
FILTER	OUT
TRANSITION	ALL
DISTORTION	AVG BIAS S/M
ALARM	DISABLE
BAUD RATE	EXT (2,00X)

a. Oscillator Failure Alarm Check. No test setup is required for this test. Perform the test procedure as follows:

(1) Set the PWR switch to OFF, and connect the power cable to the required power source.

(2) Disconnect any external oscillator from the rear panel jacks.

(3) Set the TS-2862/GGM-15(V) front panel switches as follows:

Switch	Position
ALARM	OFF
BAUD RATE	9600
POWER	ON

(4) Set the ALARM switch to ON and the BAUD RATE switch to EXT (200X). The audible alarm shall sound and the CLOCK alarm indicator shall be illuminated.

(5) Set the ALARM switch to RESET. The audible alarm shall cease, but the CLOCK alarm indicator remains illuminated.

(6) Set the BAUD RATE switch to 9600. The CLOCK alarm indicator shall extinguish.

b. Input Select Test (fig. 3-8). Connect the equipment as shown in figure 3-8, and proceed as follows:

(1) Set the POWER switch to OFF, and connect the power cable to the required power source.

(2) Set the front panel switches as follows:

Switch	Position
MARK POLARITY	+
INPUT	SERIES 60 N
TRANSITION	ALL
DISPLAY MODE	DIST (%)
POWER	ON

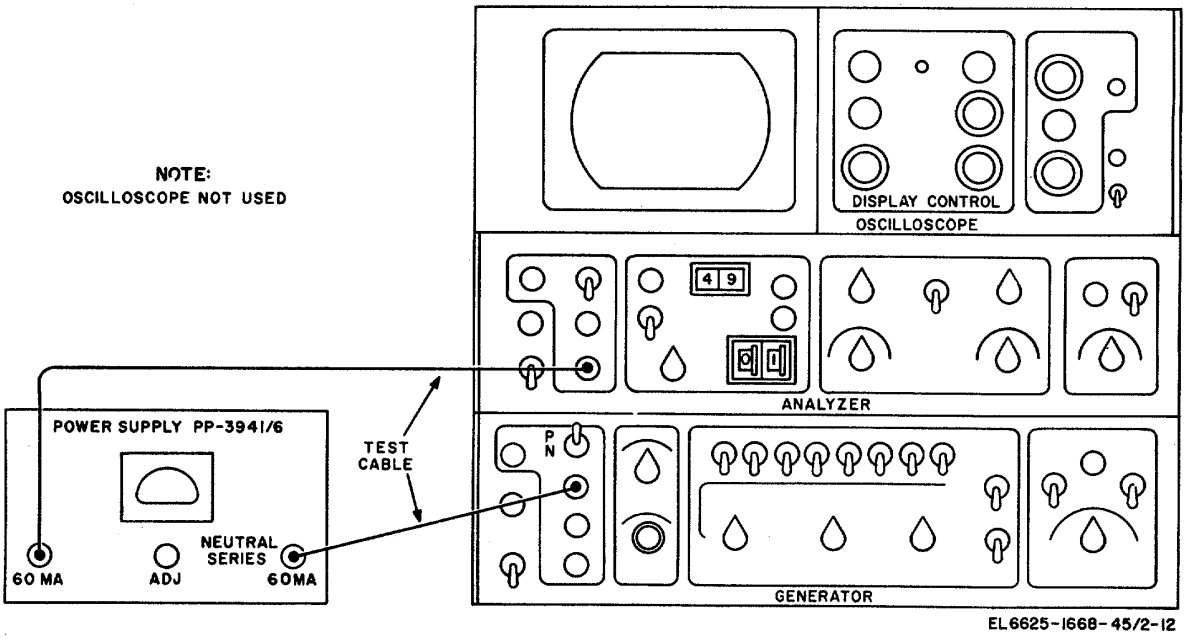


Figure 3-8. Input select test setup.

(3) Set the SG-860/GGM-15(V) switches as follows:

Switch	Position
SIGNAL	N
MESSAGE SELECT	ANY POSITION
CHARACTER RELEASE	FREE RUN
OSC	INT
POWER	ON

(4) The TS-2862/GGM-15(V) SIGNAL indicator lamp shall light for a steady mark condition, and extinguish during a steady space condition.

c. Baud Rate Check (fig. 3-9). Set up the equipment as shown in figure 3-9, and proceed as follows:

(1) Set the POWER switch to ON.

(2) Set the BAUD RATE switch to the following positions. The AN/USM-207 shall indicate kiloHertz (kHz), ±1 count as follows:

BAUD RATE switch	AN/USM-207 (kHz)
37.5	7.500
45.45	9.090
50	10.000
61.12	12.224
75	15.000
150	30.000
300	60.000
600	120.000
1200	240.000
2400	480.000
4800	960.000
9600	1,920.000

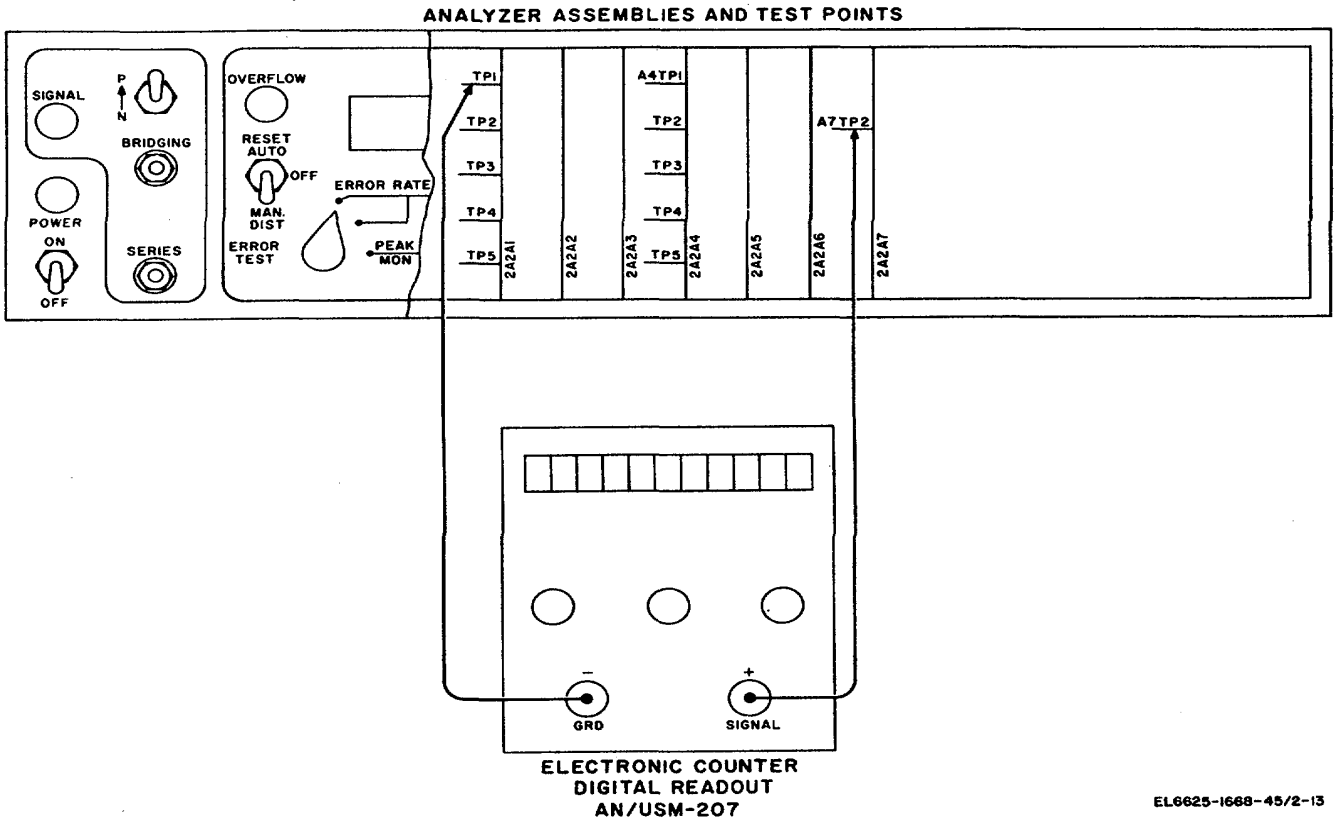


Figure 3-9. Baud rate check test setup.

d. Transition, Filter, and Code Level Test Setup (fig. 3-10). Connect the equipment as shown in figure 3-10 and proceed as follows:

(1) Set the SG-806/GGM-15(V) switches as follows:

Switch	Position
MESSAGE SELECT	1:1
PERCENT DISTORTION	0-0
BAUD RATE	150
POWER	ON

(2) Set the TS-2862/GGM-15(V) switches as follows:

Switch	Position
BAUD RATE	150
FILTER	IN
CODE LEVEL	8

(3) Set the TS-2862/GGM-15(V) TRANSITION switch to ALL. The nixie indicator shall indicate 0 0 distortion ±2 percent (max).

(4) Rotate the TRANSITION switch from 1 through 9. The nixie indicator shall indicate 0 0 distortion ±2 percent (max).

(5) Set the FILTER switch to OUT. The nixie indicator shall indicate 0 0 distortion ±2 percent (max).

e. Synchronous Operation Test (fig. 3-8). Connect the equipment as shown in figure 3-8 and proceed as follows:

(1) Set the SO-860/GGM-15(V) switches as follows:

Switch	Position
DISTORTION SELECT	BIAS M
PERCENT DISTORTION	5
MESSAGE SELECT	MSG
CHARACTER LENGTH	SYNC
CHARACTER RELEASE	FREE RUN
OSC	INT
BAUD RATE	37.5
POWER	ON

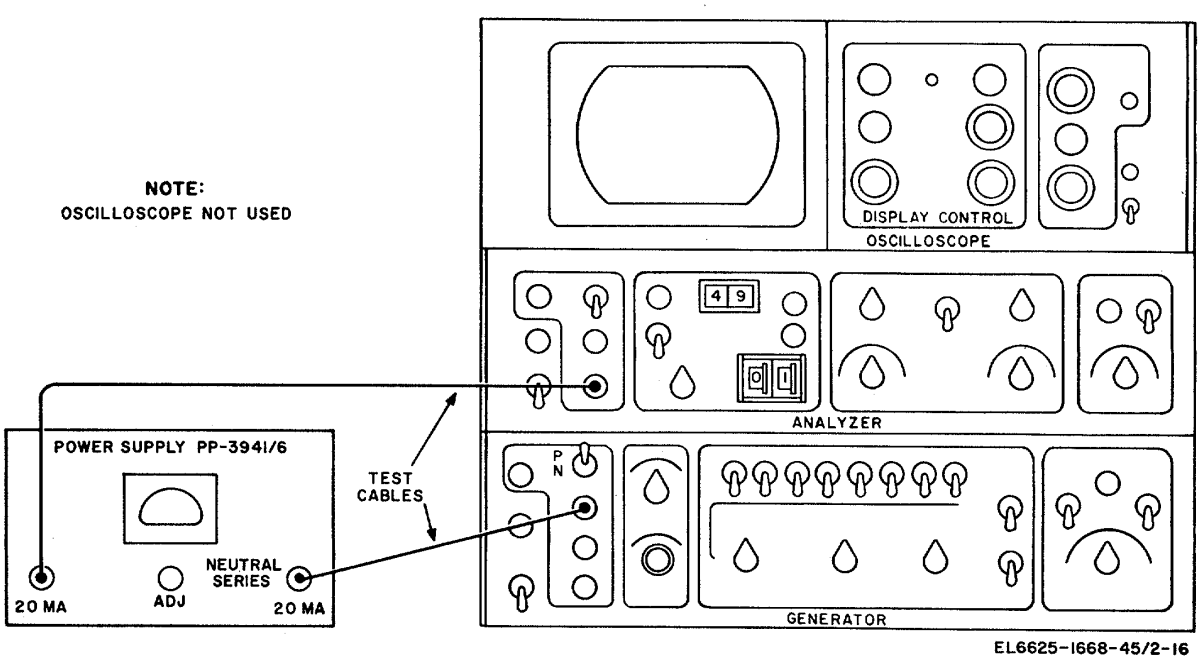


Figure 3-10. Code level, 20-ma neutral, test setup.

(2) Set the TS-2862/GGM-15(V) switches as follows:

Switch	Position
DISTORTION AVG	BIAS S/M
CODE LEVEL	SYNC
TRANSITION	ALL
BAUD RATE	37.5
POWER	ON

(3) The TS-2862/GGM-15(V) shall indicate 0.05 ±2 percent (max) marking bias distortion.

(4) Set the SG-860/GGM-15(V) DISTORTION SELECT switch to BIAS S. The TS-2862/GGM-15(V) shall indicate 0.05 ±2 percent (max) spacing bias distortion.

f. Code Level, 20-Ma Neutral Test (fig. 3-10). Connect the equipment as shown in figure 3-10, and proceed as follows:

(1) Set the TS-2862/GGM-15(V) switches as follows:

Switch	Position
TRANSITION	8
DISTORTION	AVG END M/S
CODE LEVEL	8
POWER	ON

(2) Set the SG-860/GGM-15(V) switches as follows:

Switch	Position
DISTORTION SELECT	END S/S M
PERCENT DISTORTION	5
CODE LEVEL	8
MESSAGE SELECT	SELECTED CHARACTER BITS
SELECTED CHARACTER BITS 1 through 5 and 7	M
SELECTED CHARACTER BITS 6 and 8	S
POWER	ON

(3) The TS-2862/GGM-15(V) shall indicate 0.05 ±2 percent (max) marking distortion.

(4) Set the TS-2862/GGM-15(V) TRANSITION switch to 9. The nixie display shall indicate 00 ±2 percent (max) marking distortion.

(5) Set TS-2862/GGM-15(V) switches as follows:

Switch	Position
CODE LEVEL	6
TRANSITION	7
DISTORTION	PEAK EARLY

(6) Set the SG-860/GGM-15(V) switches as follows:

Switch	Position
DISTORTION SELECT .BIAS	M
CODE LEVEL	8
SELECTED CHARACTER BITS 1 through 5, 7 and 8	M
SELECTED CHARACTER BITS 6	S

(7) The TS-2862/GGM-15(V) nixie display shall indicate 05 ±2 percent (max) early distortion.

(8) Set the TS-2862/GGM-15(V) TRANSITION switch to 6. The nixie display shall indicate 0 ±2 percent (max) early distortion.

g. 20-Ma Neutral Signal and Nixie Display Test Setup (fig. 3-10). Make the test setup as shown in figure 3-10, and proceed as follows:

(1) Set the TS-2862/GGM-15(V) switches as follows:

Switch	Position
TRANSITION	ALL
DISTORTION	PEAK LATE

(2) Set SG-860/GGM-15(V) switches as follows:

Switch	Position
BAUD RATE	150
CODE LEVEL	5
CHARACTER LENGTH	7
DISTORTION SELECT	END S/S M
PERCENT DISTORTION	0

(3) The TS-2862/GGM-15(V) nixie display shall indicate 00 ±2 percent (max) marking distortion.

(4) Set the SG-860/GGM-15(V) PERCENT DISTORTION switch to 1, 12, 13, 24, 25, 36, 37, 48, and 49. The TS-2862/GGM-15(V) nixie display shall indicate within i2 percent of the PERCENT DISTORTION setting.

(5) Set the SG-860/GGM-15(V) DISTORTION SELECT to END S/S S. Set the TS-2862/GGM-15(V) DISTORTION switch to PEAK EARLY.

(6) Set the SG-860/GGM-15(V) PERCENT DISTORTION to 0, 1, 12, 24, 25, 36, 37, 48, and 49. The TS-2862/GGM-15(V) shall indicate within ±2 percent of the PERCENT DISTORTION setting.

(7) Momentarily set the RESET switch from AUTO to MAN and return it to AUTO. The nixie shall indicate 00, then return to 49.

(8) Set the BAUD RATE switch to 300 or above.

(9) Set the RESET switch to MAN, and then return it to AUTO. The nixie shall remain at 00 after reset.

h. 30-Ma Polar Signal, High-Impedance Bridging Test (fig. 3-11). Make the test setup as shown in figure 3-11, and proceed as follows:

(1) Set the TS-2862/GGM-15(V) switches as follows:

Switch	Position
DISTORTION	AVG BIAS S/M
RESET	AUTO
TRANSITION	ALL

(2) Set the SG-860/GGM-15(V) switches as follows:

Switch	Position
CODE LEVEL	5
DISTORTION SELECT	BIAS M
PERCENT DISTORTION	25

(3) The TS-2862/GGM-15(V) nixie display shall indicate 25 ±2 percent (max) marking bias distortion.

(4) Remove the signal input plug from the TS-2862/GGM-15(V) SERIES INPUT jack and insert it into the BRIDGING INPUT jack, and set the INPUT switch to BRIDGING HIZ.

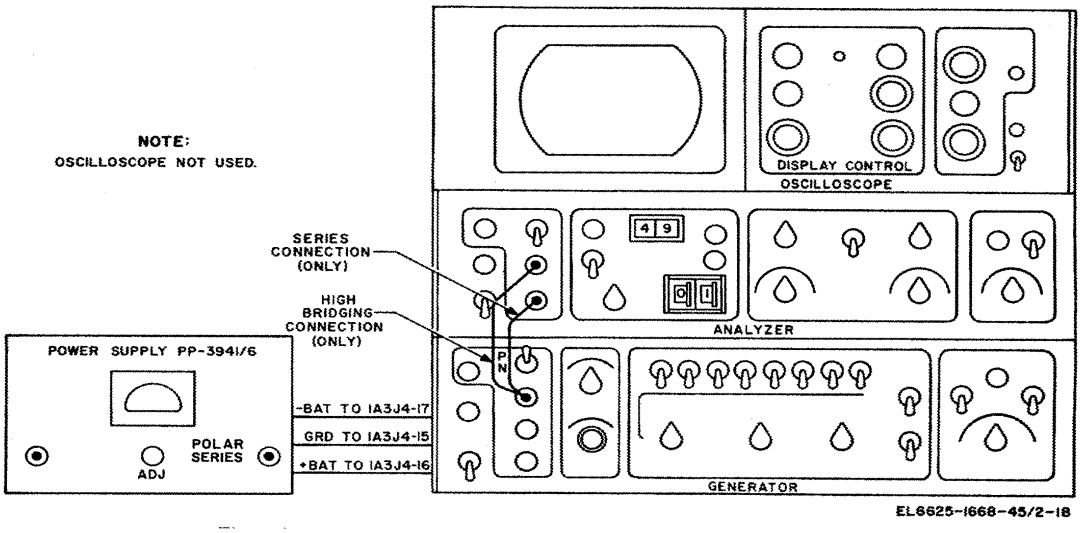


Figure 3-11. 30-ma polar signal, high-impedance bridging test setup.

(5) The TS-2862/GGM-15(V) nixie display shall indicate 25 ±2 percent (max) marking bias distortion, and the nixies will reset after 5 seconds.

i. Display Mode Test (fig. 3-12). Connect the equipment as shown in figure 3-12, and proceed as follows:

(1) Set the TS-2862/GGM-15(V) switches as follows:

Switch	Position
BAUD RATE	37.5
DISPLAY MODE	PEAK MON (HITS)
THRESHOLD & DISTORTION	27
CODE LEVEL	5
TRANSITION	ALL
RESET	AUTO

(2) Set the SG-860/GGM-15(V) switches as follows:

Switch	Position
DISTORTION SELECT	ANY POSITION
MESSAGE SELECT	MSG
CODE LEVEL	5
CHARACTER LENGTH	7
CHARACTER RELEASE	FREE RUN
PERCENT DISTORTION	25
OSC	INT

(3) Set the RESET switch to MAN and then return to AUTO. The nixie indicators shall indicate 00 ±2 percent (max).

(4) Set the THRESHOLD % DISTORTION switch to 23. The nixie indication shall increase.

(5) After the nixie indicates 99, the OVERFLOW lamp shall light.

(6) Set the TS-2862/GGM-15(V) and SG-860/GGM-15(V) BAUD RATE switches to 9600.

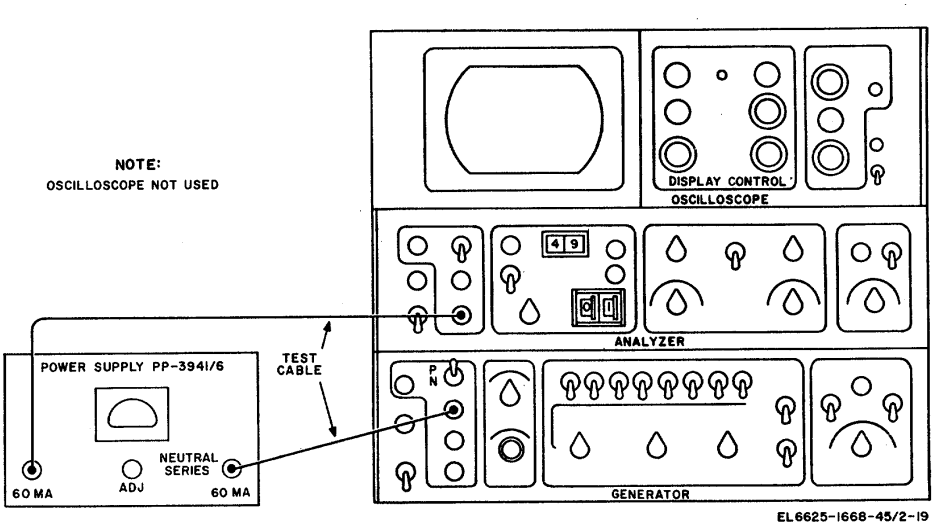


Figure 3-12. Display mode test setup.

(7) Set the RESET switch to MAN and then return it to AUTO. The nixie indication shall increase to 99, and the OVERFLOW lamp shall light.

(8) Set the THRESHOLD % DISTORTION switch to 27.

(9) Set the RESET to MAN and then return it to AUTO. The nixie shall indicate 00 ±2 percent (max) and the OVERFLOW lamp shall extinguish.

j. Power Supply Voltage Check (fig. 3-13). Check the power supply voltages as shown in figure 3-13 and the procedures below. Open the hinged front panel, and extend assembly 2A2A1 with the extender panel to provide access to the assembly corrector pins and test points.

(1) Set the SG-860/GGM-15(V) PWR switch to ON.

(2) Connect the AN/PSM-6B negative lead to 2A2A1TP1 and the positive lead to 2A2A1TP5. The AN/PSM-6B should indicate ±13.5 to ±16.5 volts dc.

(3) Reconnect the AN/PSM-6B positive lead to 2A2A1TP2. The AN/PSM-6B should indicate ±5.5 volts dc.

(4) Reconnect the AN/PSM-6B positive lead to 2A2A1, pin 15. The AN/PSM-6B should indicate ±190 to ±210 volts dc.

(5) Reconnect the AN/PSM-6B positive lead to 2A2A1, pin 14. The AN/PSM-6B should indicate ±190 to ±210 volts dc.

(6) Reconnect the AN/PSM-6B positive lead to 2A2A1TP1 and the negative lead to 2A2A1TP4. The AN/PSM-6B should indicate -5.5 volts dc.

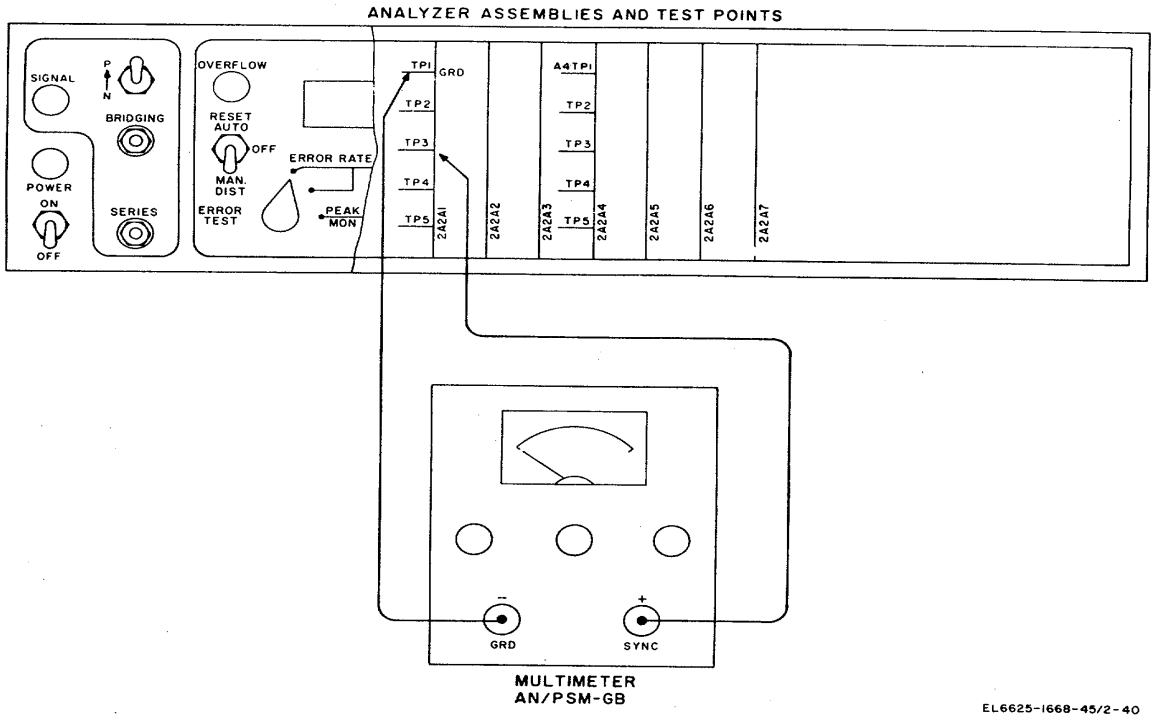


Figure 3-13. Power supply voltage check test setup.

(7) Reconnect the AN/PSM-6B negative lead to 2A2A1, pin L. The AN/PSM-6B should indicate -13.5 to -16.5 volts dc.

3-6. Continuity Testing

Continuity testing is required for circuits and components not completely tested during operational testing. These circuits or components are cable continuity, switch or jack contacts, shorted capacitors, diodes, or transistors, open-circuited resistors, transformer windings, or printed circuit routes that cannot be located.

CAUTION

The TS-2862/GGM-15(V) is completely transistorized; therefore, do not continuity test the circuits while power is on. Disconnect all power from the TS-2862/GGM-15(V) from all sources, external or internal. To perform continuity tests, use the applicable circuit diagram and the procedures below.

a. Assemblies.

(1) Disconnect all electrical power from the unit.

(2) Open the hinged front panel, remove the desired assembly, and perform continuity tests with the aid of the applicable schematic and wiring diagrams.

(3) If a circuit continuity test is required, use the extender card to return the assembly to the TS-2862/GGM-15(V) circuit while providing access to test points.

b. Switches, Contacts, and Jacks.

(1) Disconnect all electrical power from the unit.

(2) Connect the AN/PSM-6B black or ground lead to the wiper arm or contact of the switch, actuate the switch, and measure across the closed contacts with the other lead.

(3) Test jacks directly by making and breaking contact points, while measuring with the AN/PSM-6B.

c. Cables and Wiring.

(1) Disconnect all electrical power.

(2) With aid of wiring and schematic diagrams, test cables or wiring at extreme ends and other terminations.

d. Transformers.

(1) Disconnect all electrical power.

(2) With aid of schematic and wiring diagrams, locate each winding terminal point and measure for continuity.

e. Transistors and Diodes.

(1) Disconnect all electrical power.

(2) Transistors and diodes have low forward resistances and high reverse resistances. If the continuity is the same in both directions (high or low), the transistor or diode is faulty.

f. Capacitors.

(1) Disconnect all electrical power.

(2) Capacitors have high dc resistances, and a charging kick is noticed on the ohmmeter when probes touch the capacitor ends, and a high kick when the ohmmeter leads are reversed. If a kick is absent (except for very small capacitors) or the dc resistance is low, the capacitor if faulty.

3-7. Localizing Troubles

a. General. The procedures outlined in the troubleshooting chart (*c* below) will aid in localizing troubles to an individual circuit as a result of performing the operational test (para 3-5) and not getting the correct results. One or more of the localizing procedures may be needed to localize a trouble to a particular stage. When a trouble has been localized to a particular stage, use the procedural steps of paragraph 3-8 to isolate the trouble to a particular part.

b. Use of Chart. The troubleshooting chart is designed to supplement the operational check. If operational symptoms are not known, begin at item No. 1 of the operational checks and proceed until the defect is located.

NOTE

The complex signal paths of the TS-2862/GGM-15(V) are not confined to a single assembly, signal tracing is sometimes impossible from assembly to assembly. The fault is usually located on one assembly card: therefore, by the method of substitution, substitute good assemblies into the TS-2862/GGM-15(V) until the faulty assembly is located; then troubleshoot the faulty assembly using the chart below and the techniques in paragraph 3-8.

c. Troubleshooting Chart.

Item No.	Symptom	Probable trouble	Corrective action
1	Series input not functioning.	*a*. Defective fuse F 1	*a*. Check fuse F1 for continuity.
		b. Defective isolator circuit switches.	*b.* Refer to the operational test (para 3-5).
		c. Defective assembly 2A2A6.	*c*. Extend assembly 2A2A6 by use of extender card and trouble-shoot (para 3-8).
2	Incorrect baud rates	Defective oscillator on assembly 2A2A11.	Extend assembly 2A2A11 by use of extender card and troubleshoot to determine which oscillator is not functioning.
3	Incorrect code level	Code level detector gates not functioning properly (2A2A3).	Extend assembly 2A2A3 by use of the extender card, and troubleshoot code level detector gates Z20, Z24, Z18, and associated signal paths.
4	Transitions are faulty	Transition detector gates not functioning properly (2A2A3).	Extend assembly 2A2A3 by use of the extender card, and troubleshoot transition detector gates Z20, Z22, Z24G2, and associated signal paths.
5	Incorrect bias distortion indication.	Mark gates not functioning (2A2A3).	Extend assembly 2A2A3 by use of the extender card, and troubleshoot mark gate Z11 and flip-flop Z12FF1 and associated signal paths.
6	Incorrect end distortion indication.	Repeat item No. 5	Repeat item No. 5
7	Incorrect total, early, and late distortion indications.	Repeat item No. 5	Repeat item No. 5
8	Faulty display on all modes.	Nixie indicator circuit (2A1A1).	Troubleshoot assembly 2A1A1.
9	Loss of ac and dc power	a. Blown fuse	a. Check all fuses on the fuse panel.
		b. Power supply defective	*b.* Check dc fuses. If fuses are good, troubleshoot the power supply on the main chassis, using the overall schematic and wiring diagrams for parts values and locations.

CAUTION

Do not make any resistance or continuity measurements in this equipment with the power turned on since damage to transistors may result.

3-8. Isolating Trouble Within an Assembly

When trouble has been localized to a submodule, either through operational checks (para 3-5) or localization (para 3-7), use the follow-techniques to isolate the defective part.

NOTE

Voltage measurements can be made with insulated test probes while the equipment is turned on. Be extremely careful to prevent an accidental short circuit between terminals.

a. Transistors. Make voltage measurements at voltage divider or voltage dropping points. A switching transistor will have sharp voltage changes at its collector, while a nonsaturating transistor will have a linear like change at its collector. If no changes are noted, test the transistor in a transistor tester or use paragraph 3-6 continuity steps to determine if transistor or its circuit is defective.

b. Diodes. A diode is a conductor in the forward direction and a resistor in the reverse direction. When normally operating, a change in voltage level will be noted across the cathode and anode, or a high at one end and zero or low voltage at the other end. Use paragraph 3-6 continuity steps to determine if the diode or its circuit is defective.

c. Capacitors. A capacitor conducts ac voltage but opposes dc voltage. If the voltage at both ends is the same, the capacitor may be shorted. Use paragraph 3-6 continuity steps to determine if capacitor is defective.

d. Resistors. Make voltage measurement across resistors. A voltage should be measured. If it is not, turn off the power and make continuity and resistance measurements (para 3-6).

e. Transformers. Make ac voltage measurements at output terminals, check for heat or ac hum to indicate an overload or shorted winding. Use paragraph 3-6 continuity steps to determine if defective. Make an ac hi-pot test of insulation.

f. Switches and Jacks. Make continuity check of switches or jacks in accordance with paragraph 3-6 continuity steps.

g. Intermittent Troubles. Intermittent troubles are a common fault at cable and switch contacts, variable resistance arms, poor solder joints, resistance and capacitance pigtail leads, and various junctions. Tap the chassis or suspected area to reveal the defective point. Rotating the switch or control will often reveal a defective contact.

h. Integrated Circuits. Table 3-1 lists all integrated circuits used in this equipment and the assemblies on which they are mounted. When troubleshooting integrated circuits (IC's), the repairman must use the IC configurations following this paragraph, the schematic diagram, and functioning portion of the text. The IC configurations provide an internal logic diagram for each IC, pin connection, and truth table. The buffer storage element and decimal decoder driver are supplied with ±5.5 volts dc at pin 16 and ground at pin 8. The operational amplifier is not supplied with a ground but receives ±15 volts dc at pin 11 and -15 volts dc at pin 6. The differential comparator is supplied with ±12 volts dc at pin 11,-6 volts dc at pin 6, and ground at pin 2. All other IC's are supplied with ±5.5 volts dc at pin 14 and ground at pin 7. An oscilloscope is used to determine the presence of qualifying inputs. If such inputs are present, the output should appear as described in the functioning portion of the text or as illustrated in the IC configurations. If the output does not appear as described and all inputs and supply voltages are present at the designated pins, the IC is defective. Be extremely careful when troubleshooting IC's with an oscilloscope and do not short-circuit adjacent pins with the test probe. A defective IC cannot be repaired and replacement requires a great deal of care to prevent damage to the printed circuit. As indicated below, a 0 logic level represents 0 volt dc and a 1 logic level represents ±5.5 volts dc.

(1) The hex. inverter (fig. 3-14) is comprised of six inverter circuits. Pins 1, 3, 5, 9, 11, and 13 are inputs and pins 2, 4, 6, 8, 10, and 12 are outputs. The inverter reproduces the input signal and inverts the signal polarity.

Table 3-1. Integrated Circuits Reference Designations, TS-2862/GGM-15(V)

Motorola[a] Fairchild	MC836P U6A993659X	MC846P U6A994659X	MC853P U6A909359X	U6A995979X	MC1709CP FU6E7709393	U6B996079-X	U6A995879-X
2A2A1			Z7				Z1 through Z6
2A2A2	Z9, Z14		Z1, Z5, Z13, Z16, Z17	Z2, Z3, Z4, Z6, Z7, Z8,			

Motorola[a] Fairchild	MC836P U6A993659-X	MC846P U6A994659-X	MC853P U6A909359-X	U6A995979-X	MC1709C-P FU6E7709-393	U6B996079X	U6A995879X
			Z10, Z11, Z12, Z15				
2A2A3	Z5, Z11, Z16	Z1, Z6, Z8, Z10, Z12, Z13, Z14, Z19, Z17	Z2, Z3, Z4, Z7, Z9, Z15, Z18				
2A2A4	Z9,Z14	Z1, Z2, Z3, Z4, Z6, Z7, Z8, Z10, Z11, Z12, Z15, Z16		Z5, Z13			
2A2A5	Z2, Z5, Z8, Z9, Z11, Z21	Z3, Z6, Z7, Z12, Z14, Z15, Z16, Z19, Z20	Z1, Z4, Z10, Z13, Z22				Z17, Z18
2A2A6	Z2,Z5	Z4,Z6	Z1,Z3		Z7,Z8		
2A2A7	Z8,Z9	Z2,Z4,Z7	Z, Z3, Z5, Z6				
2A1A1						Z1, Z2	

[a] Refer to figures 3-14 through 3-20.

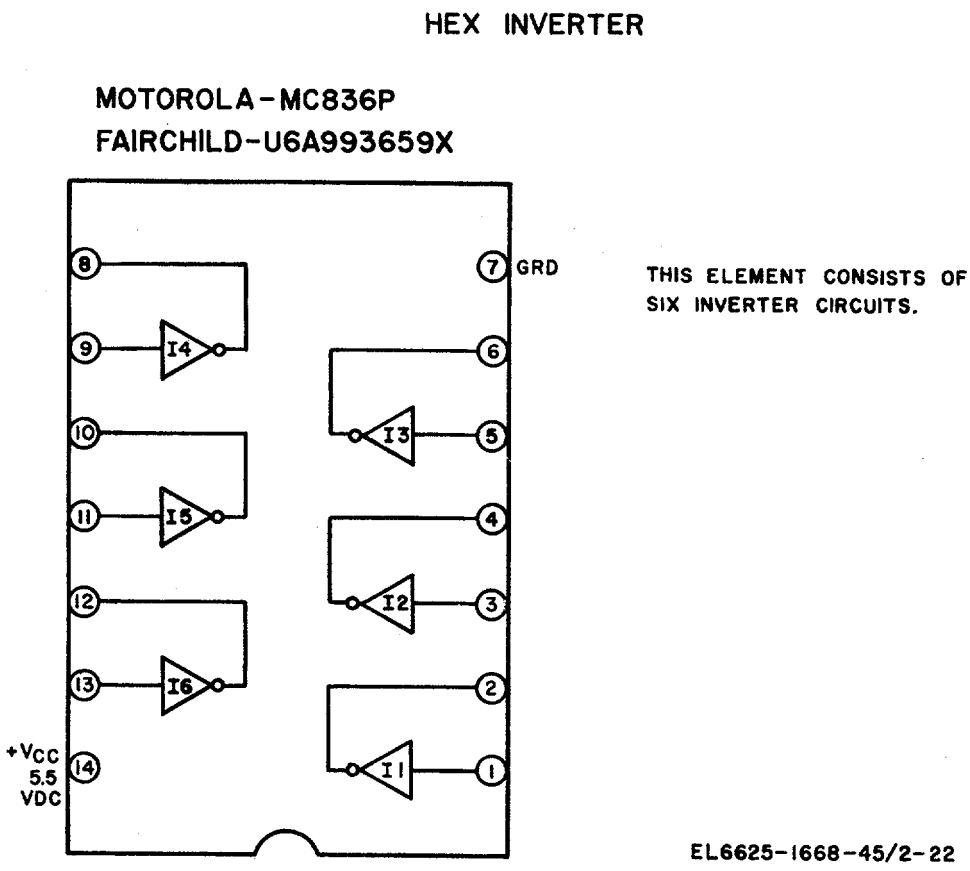


Figure 3-14. Hex inverter, integrated circuit.

(2) The quad. two-input gates (fig. 3-15) are comprised of four two-input and gate circuits. Pins 1, 2, 4, 5, 9, 10, 12, and 13 are inputs, and pins 3, 6, 8, and 11 are outputs. The active state of each gate is a 0 (0 volt) output. To obtain this output, both inputs to each gate must be 1 (±5.5 volts). Each gate assumes the inactive state whenever an input is not 1. The inactive state is a 1 output.

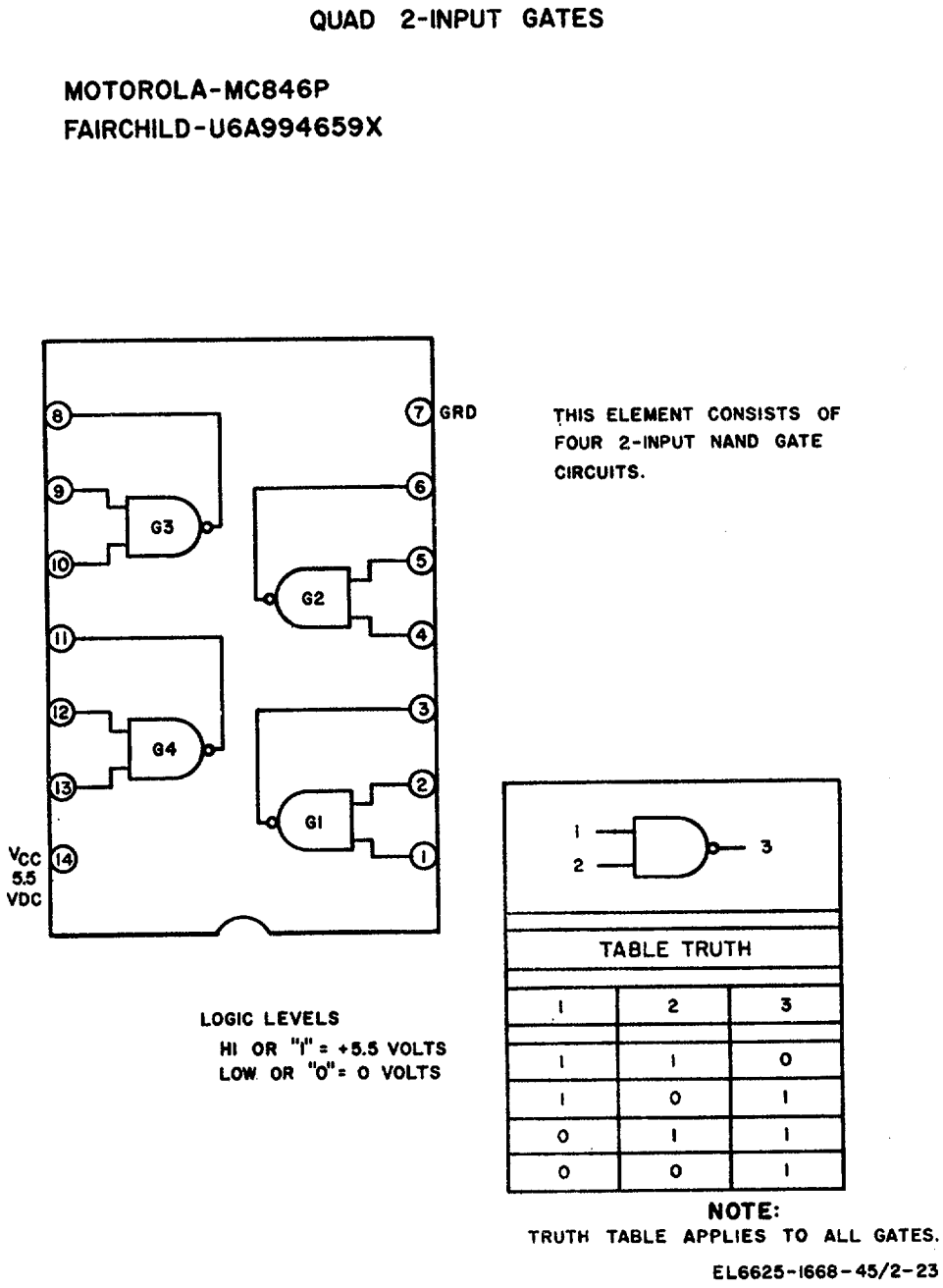
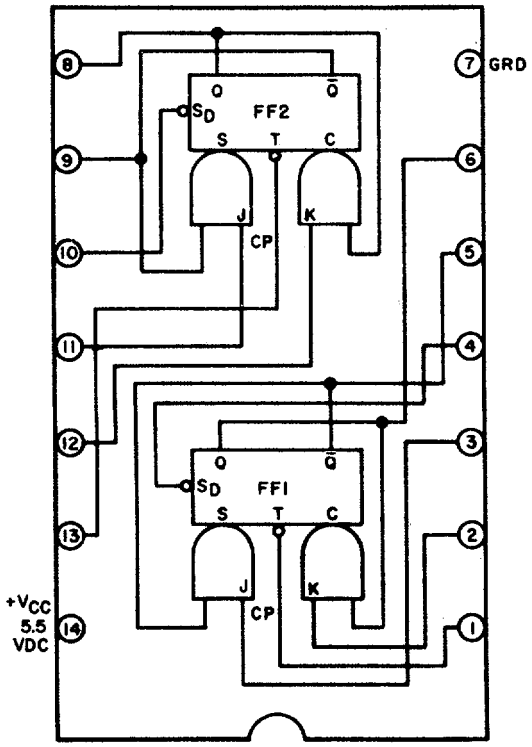


Figure 3-15. Quad. two-input gates, integrated circuit.

(3) The dual J-K flip-flops (fig. 3-16), with separate clock (CP) and separate direct-set (SD) input, include two direct-coupled flip-flops. The direct-set input overrides the synchronous inputs. When a 0 is applied to the direct-set input of either flip-flop, the Q output will be 1. When the direct-set input is 1, the state of the Q output is determined by the state of the J-K inputs when a clock pulse is applied. If both J and K inputs are 0 when a clock pulse is applied, the Q output will not change state. However, if both J and K inputs are 1, the Q output will change state when the clock pulse goes negative. When the J input is 0 and the K input is 1, the Q output will be 0 after the clock pulse. If K is 0 and J is 1, Q will be 1 after the clock pulse.

DUAL J-K FLIP-FLOPS

MOTOROLA-MC853P
FAIRCHILD -U6A909359X



THIS ELEMENT CONSISTS OF TWO DIRECTLY COUPLED FLIP-FLOPS, SEPARATE CLOCK (CP) AND SEPARATE DIRECT SET (S_D) INPUTS.

ASYNCHRONOUS TRUTH TABLE		
S_D	Q	$\bar{Q}$
1	NC	NC
0	1	0

J-K TRUTH TABLE		
tn		tn+1
J	K	Q
0	0	Qn
1	0	1
0	1	0
1	1	$\bar{Q}$n

LOGIC LEVELS
HI OR "1" = +5.5 VOLTS
LOW OR "0" = 0 VOLTS

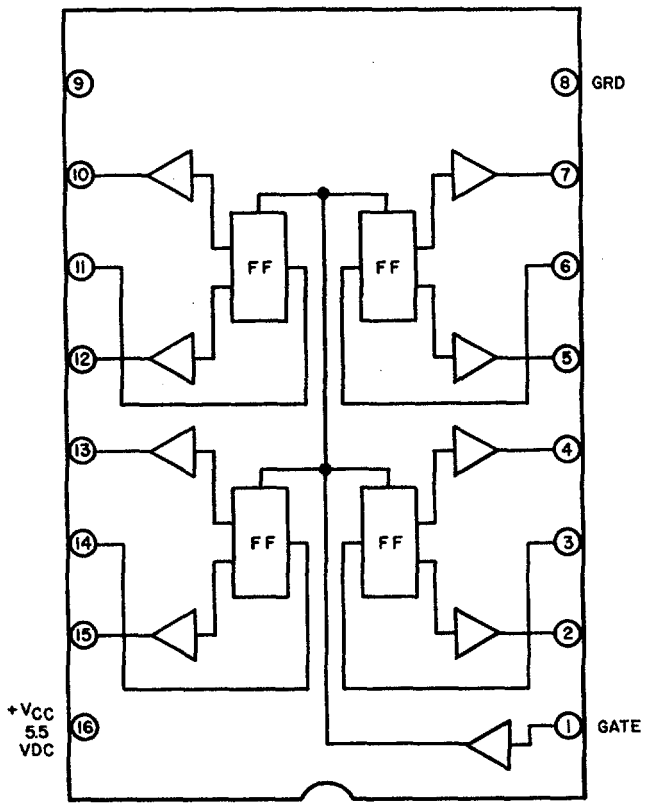
EL6625-1668-45/2-24

Figure 3-16. Dual J-K flip-flops, integrated circuit.

(4) The buffer-storage element (fig. 3-17) is comprised of four gated latch circuits and a common gate driver. The outputs on pins 4, 7, 10, and 13 will assume the state of the inputs on 3, 6, 11, and 14 whenever the gate input is 0. When the gate is 1, the outputs will not change.

BUFFER-STORAGE ELEMENT

FAIRCHILD-U6A995979X



THIS ELEMENT CONSISTS OF FOUR GATED-LATCH CIRCUITS AND A COMMON GATE DRIVER. INFORMATION PRESENT AT THE FOUR DATA INPUTS ENTERS THE LATCHES THROUGHOUT *THE INTERVAL OF A LOAD* COMMAND APPLIED TO THE GATE INPUT TERMINAL. WITH THE GATE INPUT AT A "1", INFORMATION IS STORED UNTIL SUBSEQUENT LOAD COMMAND PERMITS A CHANGE.

TRUTH TABLE			
GATE	3, 6, 11, 14	4, 7, 10, 13	2, 5, 12, 15
0	0	0	1
0	1	1	0
1	ANY	0	$\overline{Q}$

LOGIC LEVELS
HI OR "I" = ± 5.5 VOLTS
LOW OR "0" = VOLTS
Q = THE STATE ASSUMED PRIOR TO "GATE HIGH" IS MAINTAINED

EL6625-1668-45/2-25

Figure 3-17. Buffer-storage element, integrated circuit.

(5) The operational amplifier (fig. 3-18) is provided with inverting and noninverting inputs. A signal applied to pin 4 will appear inverted at pin 10 (output). An input signal applied to pin 5 will appear at pin 10 with the same polarity.

(6) The decimal decoder driver (fig. 3-19) accepts a binary input on pins 6, 7, 15, and 14 and produces 10 mutually exclusive outputs; for example, when pins 6, 7, 15, and 14 are all 1, the output at pin 9 will be 0, and when pin 6 is 0 and pins 7, 15, and 14 are 1, the output at pin 5 is 0. These outputs control the ionizing potential of the nixie tubes.

(7) The decade counter (fig. 3-20) is comprised of four cascaded binary-triggered flip-flops with a reset gate which is enabled at the end of the count from 0 to 9, enabling the next input transition to reset the decade to 0.

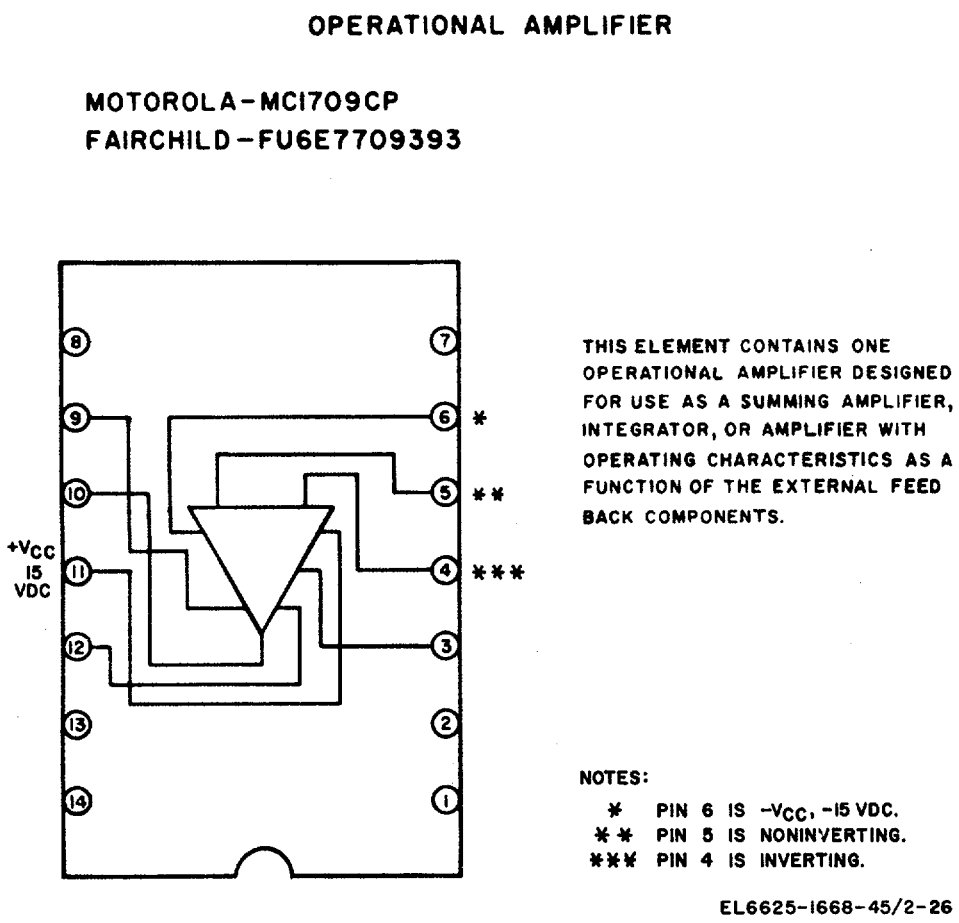


Figure 3-18. Operational amplifier, integrated circuit.

DECIMAL DECODER/DRIVER

FAIRCHILD – U6B996079X

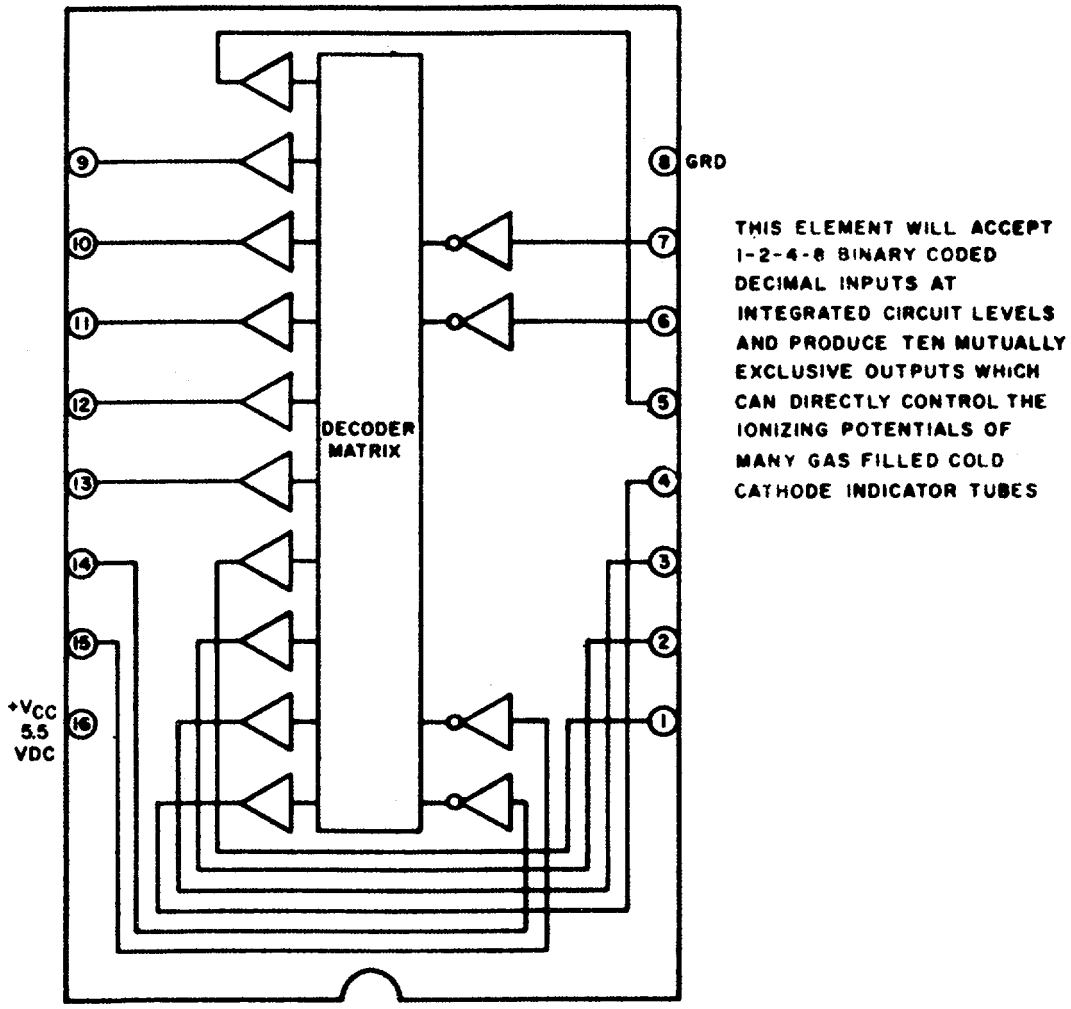


Figure 3-19. Decimal decoder/driver, integrated circuit.

TRUTH TABLE										
PIN NO.	**9**	**5**	**10**	**4**	**11**	**3**	**12**	**2**	**13**	**1**
6	**1**	**0**	**1**	**0**	**1**	**0**	**1**	**0**	**1**	**0**
7	**1**	**1**	**0**	**0**	**1**	**1**	**0**	**0**	**1**	**1**
15	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**1**	**1**
14	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**0**

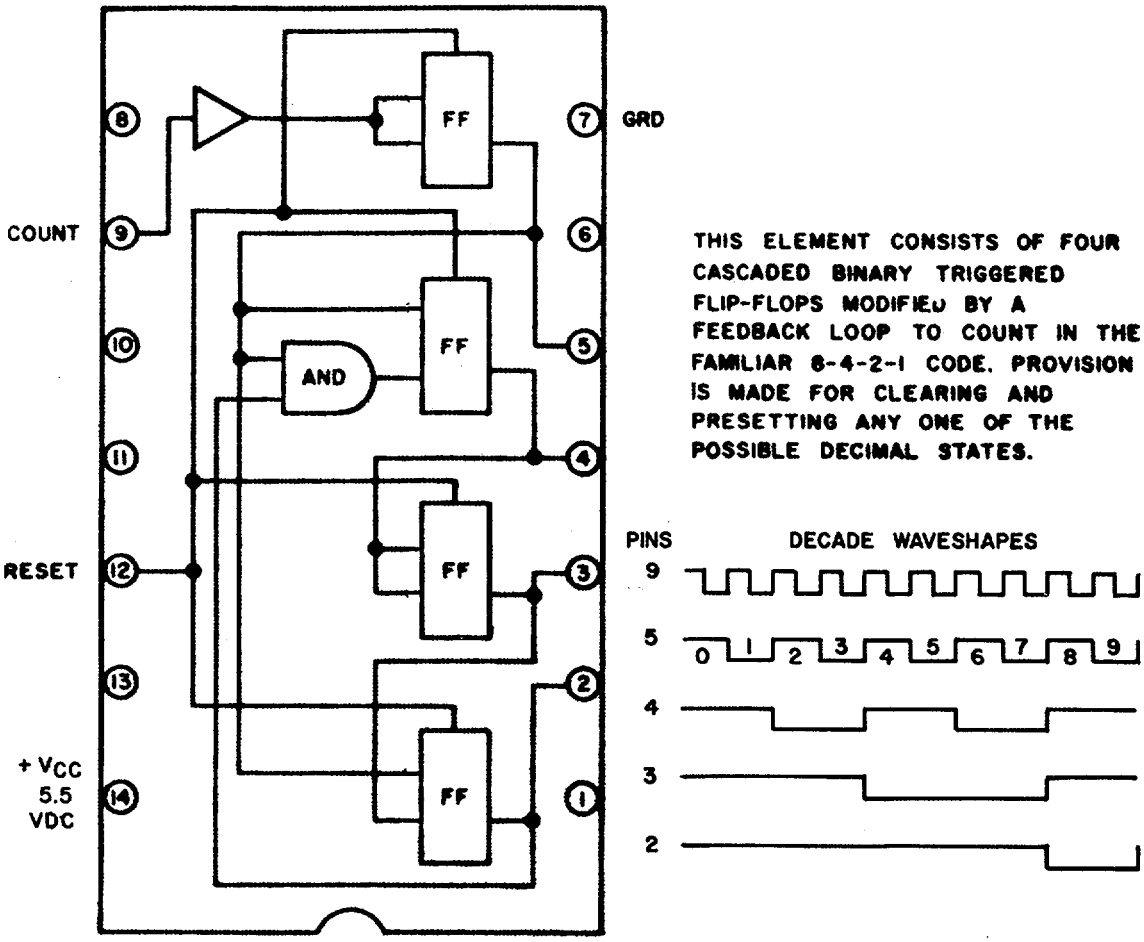
WITH THE CODING SHOWN IN THE TABLE, ONLY ONE OF THE OUTPUTS WILL BE “0” AT ANY TIME.
LOGIC LEVELS:
HI OR “I” = ± 5.5 VOLTS
LOW OR “0” = 0 VOLTS

EL6625-1668-45/2-27

Figure 3-19. Decimal decoder/driver, integrated circuit.

DECADE COUNTER

FAIRCHILD-U6A995879X



TRUTH TABLE										
	COUNT									
PINS	0	1	2	3	4	5	6	7	8	9
5	1	0	1	0	1	0	1	0	1	0
4	1	1	0	0	1	1	0	0	1	1
3	1	1	1	1	0	0	0	0	1	1
2	1	1	1	1	1	1	1	1	0	0

LOGIC LEVELS
HI OR "I" = ± 5.5 VOLTS
LOW OR "0" = 0 VOLTS

EL6625-1668-45/2-28

Figure 3-20. Decade counter, integrated circuit.

CHAPTER 4

REPAIRS AND ADJUSTMENTS

4-1. General Parts Replacement Techniques

(fig 6-1 through 6-9)

Refer to the Maintenance Allocation Chart in TM 11-6625-1668-12 for categories of maintenance authorized for the TS-2862/GGM-15(V). Most of the parts in the TS-2862/GGM-15(V) are pluckout card mounted and easily removed and replaced without special procedures. The power supply transformer, capacitor, and diodes are rear-chassis-mounted and removable only when the rear panel is removed. The front panel switches and controls are easily removed. To replace assembly card component parts, be careful to prevent damage to the circuit board printed areas (refer to TB SIG 222.) Transistors and diodes are to be heat-sink protected during soldering. Use a pencil-type soldering iron with a 25-watt heat capacity. Do *not* use a soldering gun; damaging ac voltages can be induced in components. The following additional steps shall be used as a guide during parts replacement.

a. Cut and dress replacement part leads exactly as the old part.

b. Replace the new part in the exact location and position as occupied by the old part.

c. Observe polar direction of capacitors and diodes.

d. Do not disturb other parts; if necessary, return to their former positions.

e. Solder with a pencil-type soldering iron with a heat-absorbing sink between the soldered point and transistor, diode, small resistor, or capacitor.

4-2. Adjustment Requirements

Whenever a frequency or voltage determining part is replaced, adjustment of that circuit is required. The adjustments in paragraph 4-3 are provided to enable the repairman to return an adjustment to its normal value. The following test equipment is required to make the necessary adjustments.

Item	Technical manual
Oscilloscope AN/USM-281.....	TM 9-6625-2362-12
Multimeter AN/PSM-6B.....	TM 11-6625-475-10
Power Supply PP-3941/G	TM 11-6130-242-15

4-3. Adjustment Procedures

Before making any adjustments, check to see that all printed wiring circuit boards are in place, and that all controls and switches are set as indicated in the chart below. Connect the power cord to the required power source.

NOTE

The TS-2862/GGM-15(V) must be interconnected to Oscilloscope OS-206/GGM-15(V) before making the following adjustments.

Control or switch	Position
POWER	OFF
MARK POLARITY	As required for signal indication
RESET	AUTO
DISPLAY MODE	DIST (%)
THRESHOLD % DISTORTION	00
CODE LEVEL	5
FILTER	OUT
TRANSITION	ALL
INPUT	SERIES 6 ON
DISTORTION	AVG BIAS S/M
ALARM	DISABLE
BAUD RATE	9600

a. The TS-2862/GGM-15(V) and 0S-206/GGM-15(V) are initially adjusted to operate as a paired test set. If they are separated and rematched, the initial adjustments provided below must be repeated before the AN/GGM-15(V) is to be used. This initial adjustment must be performed by the installer or maintenance personnel in accordance with the maintenance allocation chart in TM 11-6625-1668-12. Perform the adjustments in the sequence listed. The following adjustments are for vertical current calibrations only.

(1) Set the OS-206/GGM-15 PWR and the TS-2862/GGM-15 POWER switches to OFF.

(2) See that the rear panel interconnections are in accordance with paragraph 3-4.

(3) Open the TS-2862/GGM-15(V) hinged front panel and remove assembly 2A2A6 from its position.

(4) Insert the extender card into the 2A2A6 terminal jack; then insert assembly 2A2A6 into the extender card.

(5) Set the OS-206/GGM-15(V) PWR and the TS-2862/GGM-15 POWER switches to ON.

(6) Set the OS-206/GGM-15(V) VERTICAL VOLTS(MA)/CM switch to 2.

(7) Set the TS-2862/GGM-15(V) INPUT switch to SERIES 20N.

(8) Connect the variable loop current source to the TS-2862/GGM-15(V) SERIES INPUT jack, and adjust to zero (0) output.

(9) Adjust the OS-206/GGM-15(V) VERT POS control to position the dc zero on the crt.

(10) Set the PP-3941/G to 2 milliamperes (ma).

(11) The crt shall indicate exactly 1 centimeter (cm); if it does not, adjust R1 on assembly 2A2A6 until the correct indication is obtained.

(12) Set the TS-2862/GGM-15(V) INPUT to I CAL.

(13) Set the OS-206/GGM-15(V) VERTICAL VOLTS(MA)/CM switch to 5.

(14) The crt shall indicate exactly plus (±) or minus (-) 2 cm; if it does not, adjust R64 on assembly 2A2A6 until the correct indication is obtained.

(15) Set the TS-2862/GGM-15(V) INPUT switch to SERIES 20N.

(16) The OS-206/GGM-15(V) calibration shall agree with the following chart.

VERT VOLTS (MA)/ CM switch position	PP-3941/G	Crt display (cm indications)
2	2 ma output	±1 cm
5	5 ma output	±1 cm
10	±10 ma output	±1 cm
20	20 ma output	±1 cm

(17) Set the TS-2862/GGM-15(V) INPUT switch to SERIES 60N.

(18) Set the OS-206/GGM-15(V) VERTICAL VOLTS (MA)/CM switch to 20.

(19) Set the PP-3941/G output to 30 ma.

(20) The OS-206/GGM-15(V) crt shall indicate exactly 1.5 cm, if it does not, adjust R62 on assembly 2A2A6 until the correct indication is obtained.

(21) Set the OS-206/GGM-15(V) VERTICAL VOLTS (MA)/CM to 50.

(22) Set the PP-3941/G output to 50 ma.

(23) The crt shall indicate ± 1 cm. This checks the entire vertical current calibrations. If an incorrect indication is obtained, repeat all initial adjustments until all checks are correct.

b. Adjust polar balance control R11 as follows:

(1) Set the TS-2862/GGM-15(V) PWR switch at OFF. Set Oscilloscope AN/USM-281 POWER switch to ON, and allow it to warmup.

(2) Open the TS-2862/GGM-15(V) hinged front panel.

(3) Remove assembly 2A2A6.

(4) Insert the extender card into assembly 2A2A6 position.

(5) Insert assembly 2A2A6 into the extender card.

(6) Connect the AN/USM-281 vertical signal lead to TP3 and the ground lead to terminal A.

(7) Set the TS-2862/GGM-15(V) PWR switch at ON.

(8) Apply a 60N polar input to the SERIES INPUTS jack.

(9) Adjust the AN/USM-281 for a series of square waves.

(10) Adjust R11 until the square waves are equally balanced above and below the zero reference line.

(11) Disconnect the setup.

c. Adjust 20N threshold control R29 as follows:

(1) Set the TS-2862/GGM-15(V) PWE switch at OFF. Set the AN/USM-281 POWER switch at ON and allow it to warm up.

(2) Open the TS-2862/GGM-15(V) hinged front panel.

(3) Remove assembly 2A2A6.

(4) Insert the extender card into assembly 2A2A6 position.

(5) Insert the assembly into the extender card.

(6) Connect the AN/USM-281 vertical signal lead to 2A2A6TP3, and the ground lead to terminal A.

(7) Set the TS-2862/GGM-15(V) POWER switch to ON.

(8) Apply a 20N polar signal to the SERIES INPUTS jack.

(9) Adjust the AN/USM-281 for a series of square waves.

(10) Adjust R29 until the sides of the pulses are vertical.

(11) Set MARK POLARITY switch alternately from (±) to (-) and back. The square waves shall invert with each change of polarity; if they do not, adjust R29 until the wave is the same in each setting.

NOTE

If 60N threshold control R30 is to be adjusted, do not disconnect the setup.

(12) If the 60N threshold is not to be adjusted, disconnect the setup.

d. Adjust 60N threshold control R30 as follows:

(1) Use the procedures given in *c*(1) through (7) and (9) through (12) above to adjust 20N threshold control R29.

(2) For *c*(8*)* above, apply a 60N polar signal to the SERIES INPUTS jack.

(3) Proceed with the test, adjusting R30 as required.

e. Adjust offset voltage balance control R59, as follows:

(1) Set the TS-2862/GGM-15(V) POWER switch to OFF. Set the AN/USM-181 POWER switch to ON, and allow it to warm up.

(2) Open the TS-2862/GGM-15(V) hinged front panel.

(3) Remove assembly 2A2A6.

(4) Insert the extender card into assembly 2A2A6 position.

(5) Insert assembly 2A2A6 into the extender card.

(6) Connect the AN/USM-281. Vertical signal lead to TP2 and the ground lead to terminal A.

(7) Set the TS-2862/GGM-15(V) POWER switch to ON.

(8) Apply a 20N polar series signal to SERIES INPUTS jack.

(9) Adjust the AN/USM-281 for a series of square waves.

(10) Adjust R59 until the square wave is on the zero reference line.

(11) Disconnect the setup.

f. Adjust ±5.5V ADJ R7 as follows:

(1) Set the TS-2862/GGM-15(V) POWER switch to OFF.

(2) Open the hinged front panel.

(3) Remove assembly 2A2A1.

(4) Insert the extender card into assembly 2A2A1 position.

(5) Insert assembly 2A2A1 into the extender card.

(6) Connect the Multimeter AN/PSM-6B positive lead to TP2, and the negative lead to TP1. Set to 0-10VDC range.

(7) Set the TS-2862/GGM-15(V) PWR switch to ON. The AN/PSM-6B shall indicate exactly ±5.5 volts dc; if it does not, adjust R7 until the correct indication is obtained.

(8) Disconnect the setup.

g. Adjust -5.5 V ADJ R19 as follows:

(1) Set the TS-2862/GGM-15(V) PWR switch at OFF.

(2) Open the hinged front panel.

(3) Remove assembly 2A2A1.

(4) Insert the extender card into assembly 2A2A1 position.

(5) Insert assembly 2A2A1 into the extender card.

(6) Connect the AN/PSM-6B positive lead to TP1, and the negative lead to TP4. Set to 0-10 VDC range.

(7) Set the TS-2862/GGM-15(V) PWR switch to ON. The AN/PSM-6B shall indicate exactly -5.5 volts dc; if it does not, adjust R19 until the correct indication is obtained.

(8) Disconnect the setup.

CHAPTER 5

GENERAL SUPPORT TESTING PROCEDURES

5-1. General

a. These testing procedures are prepared for use by general support maintenance shops to determine the acceptability of repaired equipment. These procedures set forth specific requirements that repaired equipment must meet before it is returned to the using organization.

b. Comply with the instructions preceding the body of each chart before proceeding to the chart. Perform each test in sequence. Do not vary the sequence. For each step, perform all the actions required in the *Control settings* column; then perform each specific test procedure and verify it against its performance standards.

5-2. Test Equipment, Tools, and Materials Required

All test equipment, tools, and materials required to perform the testing procedures given in this section are listed in the chart below.

Nomenclature	Technical manual
Generator, Signal SG-860/GGM-15(V)	TM 11-6625-1668-12
Oscilloscope AN/USM-281	TM 9-6625-2362-12
Counter, Electronic, Digital Readout AN/USM-207	TM 11-6625-700-10
Multimeter AN/PSM-6B	TM 11-6625-475-10
Power Supply PP-3941/G	TM 11-6130-242-15
Signal Generator AN/UPM-15	TB 9-6625-949-50

Step No.	Control settings Test equipment	Equipment under test
1	N/A	Controls may be in any position.

5-3. Test Facilities

A power source that provides 115 or 230 volts ac at 47 to 63 Hz with a power capability of 105 watts is required. No special procedures are required for connecting the unit to the power source. The input power is supplied through the power cable that connects the equipment to the power source.

5-4. Modification Work Orders

The performance standards listed in the tests (para 5-5 through 5-14) assume that no modification work orders have been performed on the equipment. A listing of current modification work orders will be found in DA Pam 310-7. If a modification work order is performed on the equipment, an allowance must be made for any test connections or test results that may differ from those given in the following test procedures.

5-5. Physical Tests and Inspection

a. Test Equipment and Materials. None.

b. Test Connections and Conditions. Remove the TS-2862/GGM-15(V) from its case. Remove or open the panels as necessary.

c. Procedure.

Test procedure	Performance standard
a. Inspect all controls and mechanical assemblies for loose or missing screws, bolts, and nuts.	*a.* Screws, bolts, and nuts are tight; none are missing.

Step No.	Control settings Test equipment	Equipment under test	Test procedure	Performance standard
			b. Inspect all connectors, sockets, and receptacles, including the fuseholders, rotary switches, and toggle switches.	*b.* No looseness or damage evident.
			c. Inspect case and chassis for damage, missing parts, and conditions of finish and panel lettering.	*c.* No damage or missing parts evident. External surfaces intended to be painted do not show bare metal. Panel lettering legible.

NOTE

Touchup painting is recommended instead of refinishing whenever practicable. Screwheads, binding posts, receptacles, and plated fastener parts will not be painted or polished with abrasives.

5-6. Power Supply Voltage Test

a. Test Equipment and Material. Multimeter AN/PSM-6B.

b. Test Connections and Conditions. Connect the equipment as shown in figure 3-13. All plug-in assemblies shall be in positions normally occupied. Warmup time is not required for transistorized circuits. Turn on equipment.

c. Procedure.

Step No.	Control Settings Test equipment	Equipment under test	Test procedure	Performance standard
1	*AN/PSM-6B:* Set to 25 VDC range.	POWER: ON	*a*. Connect AN/PSM-6B negative lead to assembly 2A2A1TP1 and positive lead to 2A2A1TP3.	*a.* AN/PSM-6B shall indicate ±13.5 to ±16.5 volts dc.
			b. Reconnect positive lead to 2A2A1TP2.	*b.* AN/PSM-6B shall indicate ±5.5 volts dc.
			c. Reconnect positive lead to 2A2A1, pin 15.	*c.* AN/PSM-6B shall indicate ±190 to ±210 volts dc.
			d. Reconnect positive lead to 2A2A1, pin 14.	*d.* AN/PSM-6B shall indicate ±190 to ±210 volts dc.
			e. Reconnect negative lead to 2A2A1TP4, and positive lead to 2A2A1TP1.	*e.* AN/PSM-6B shall indicate 5.5 volts dc.
			f. Reconnect negative lead to 2A2A1, pin L.	*f.* AN/PSM-6B shall indicate 13.5 to -16.5 volts dc.

5-7. Oscillator Failure Alarm Test

a. Test Equipment and Materials. None required.

b. Initial Test Equipment Calibration. None required.

c. Test Connections and Conditions. No test setup required. Turn on the equipment. No warmup time is required for the transistorized circuits.

d. Procedure.

Step No.	Control settings Test equipment	Equipment under test	Test procedure	Performance standard
1	N/A	POWER: ON	a. Set BAUD RATE switch to 37.5, and ALARM switch to RESET.	a. ALARM light will not light and audible alarm is off.
			b. Set BAUD RATE switch to SPARE.	*b.* ALARM light will light and audible alarm will sound.
			c. Set BAUD RATE switch to 37.5, and ALARM switch to DISABLE.	*c.* ALARM light will be extinguished and audible alarm will not sound.

5-8. Baud Rate Frequency Tests

a. Test Equipment and Materials. Electronic Counter, Digital Readout AN/USM-207.

b. Initial Test Equipment Calibration. None required.

c. Test Connections and Conditions. Connect the equipment as shown in figure 3-9.

d. Procedure.

Step No.	Control settings Test equipment	Equipment under test	Test procedure	Performance standard
1	*AN/USM-207:* Set for unit count	POWER: ON	Connect AN/USM-207 signal lead to 2A2A7TP2. Connect the ground lead to 2A2A1TP1 (grd). Set BAUD RATE switch to each position.	AN/USM-207 shall indicate ±1 count maximum for corresponding BAUD RATE switch positions.
		37.5		7.500 kHz
		45.45		9.090
		50		10.000
		61.12		12.224
		75		15.000
		150		30.000
		300		60.000
		600		120.000
		1200		240.000
		2400		480.000
		4800		960.000
		9600		1,920.000

5-9. Input Select Test

a. Test Equipment and Materials.

(1) Generator, Signal SG-860/GGM-15(V).

(2) Power Supply PP-3941/G.

b. Initial Test Equipment Calibration.

(1) Connect the DRY CONTACTS output of the SG-860/GGM-15(V) to the PP-3941/G.

(2) Set the SG-860/GGM-15(V) to a steady mark and adjust the loop current to 60 ma.

c. Test Connections and Conditions.

(1) Connect the equipment as shown in figure 3-8.

(2) Turn on power for all components.

(3) Set the MARK POLARITY switch as required for the signal indication.

d. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
1	*SG-860/GGM-15(V):*	*TS-2862/GGM-15(V):*	*a.* Connect SERIES INPUTS to loop power supply.	a. SIGNAL lamp will light if MARK POLARITY agrees with input signal. If SIGNAL lamp is not illuminated, switch to MARK POLARITY and the lamp will light.
	P/N: N DISTORTION SELECT: BIAS M	RESET: AUTO DISPLAY MODE: DIST (%)DISTORTION: 00	*b.* Set SG-860/GGM-15(V) to steady space (MESSAGE SELECT to S).	*b.* SIGNAL lamp will not light.
	PERCENT DISTORTION: 00 MESSAGE SELECT: M CODE LEVEL: 5 CHARACTER LENGTH: 7 CHARACTER RE- LEASE: FREE RUN OSC: INT ALARM: DISABLE BAUD RATE: 150	THRESHOLD % DISTORTION: 00 CODE LEVEL: 5 TRANSITION: ALL INPUT: SERIES 60N DISTORTION: AVG BIAS S/M ALARM: DISABLE BAUD RATE: 150 MARK POLARITY: ±		

5-10. Synchronous Operation Test

a. Test Equipment and Material.

(1) Generator, Signal SG-860/GGM-15(V).

(2) Power Supply PP-3941/G.

b. Initial Test Equipment Calibration.

(1) Connect the DRY CONTACTS output of the SG-860/GGM-15(V) to the PP-394/G

(2) Set the SG-860/GGM-15(V) to a steady mark (MESSAGE SELECT to M), adjust the loop current to 60 ma.

c. Test Connections and Conditions.

(1) Connect the equipment as shown in figure 3-8.

(2) Turn on power for all components.

(3) Set the MARK POLARITY switch as required for signal indication.

d. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
1	*SG-860/GGM-15(V):*	*TS-2862/GGM-15(V):*	*a.* Set SG-860/GGM-15(V) DISTORTION SELECT to BIAS S.	*a.* TS-2862/GGM-15(V) will indicate 5 percent spacing bias.
	P-N: N PERCENT DISTORTION: 5	RESET: AUTO DISPLAY MODE: DIST (%)	*b.* Set SG-860/GGM-15(V) DISTORTION SELECT to BIAS M.	*b.* TS-2862/GGM-15(V) will indicate 5 percent marking bias.
	MESSAGE SELECT: MSG CODE LEVEL: 5 CHARACTER LENGTH: SYNC. CHARACTER RELEASE: FREE RUN OSC: INT BAUD RATE: 37.5	THRESHOLD % DISTORTION: 00 CODE LEVEL: SYNC TRANSITION: ALL INPUT: SERIES 60N DISTORTION: AVG BIAS S/M ALARM: DISABLE BAUD RATE: 37.5		

5-11. Code Level 20-Ma Neutral Test

a. Test Equipment and Materials.

(1) Generator, Signal SG-860/GGM-15(V).

(2) Power Supply PP-3941/G.

b. Initial Test Equipment Calibration.

(1) Connect the DRY CONTACTS output of the SG-860/GGM-15(V) to the PP-3941/G.

(2) Set the SG-860/GGM-15(V) to a steady mark, and adjust the loop current to 20 ma.

c. Test Connections and Conditions.

(1) Connect the equipment as shown in figure 3-10.

(2) Turn on power for all components.

(3) Set the TS-2862/GGM-15(V) MARK POLARITY switch as required for a signal indication.

d. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
1	*SG-860/GGM-15(V):* P-N: N DISTORTION SELECT: END S/S M PERCENT DISTORTION: 5 MESSAGE SELECT: SELECTED CHARACTER BITS CODE LEVEL: 8 CHARACTER LENGTH: 10 CHARACTER RELEASE: FREE RUN OSC: INT ALARM: DISABLE BAUD RATE: 150 SELECTED CHARACTER BITS 1, 2,3,4,5,7: M SELECTED CHARACTER BITS 6,8: S	*TS-2862/GGM-15(V):* RESET: AUTO DISPLAY MODE: DIST % THRESHOLD % DISTORTION: 00 CODE LEVEL: 7 TRANSITION: 8 INPUT: SERIES 20N DISTORTION: AVG END MS ALARM: DISABLE BAUD RATE: 150	*a.* Check nixie readout. *b.* Set TRANSITION switch to 9.	a. TS-2862/GGM-15(V) will indicate 5 percent, marking end distortion ±2 percent. *b.* TS-2862/GGM-15(V) will indicate 0 percent distortion ±2 percent.
2	*SG-860/GGM-15(V):* DISTORTION SELECT: BIAS/M CODE LEVEL: 8 SELECTED CHARACTER BITS 1,2,3,4, 5,7, and 8: M SELECTED CHARACTER BITS 6: S	*TS-2862/GGM-15(V):* DISTORTION: PEAK EARLY CODE LEVEL: 6 TRANSITION: 7	*a.* Check nixie readout. b. Set TS-2862/GGM-15(V) TRANSITION switch to 6.	*a.* TS-2862/GGM-15(V) will indicate 5 percent distortion ±2 percent. *b.* TS-2862/GGM-15(V) will indicate 0 percent distortion ±2 percent.

5-12. Twenty-Ma Neutral and Nixie Display Test

a. Test Equipment and Materials.

(1) Generator, Signal SG-860/GGM-15(V).

(2) Power Supply PP-3941/G.

b. Initial Test Equipment Calibration.

(1) Connect the DRY CONTACTS output of the SG-860/GGM-15(V) to the PP-3941/G.

(2) Set the SG-860/GGM-15(V) to a steady mark (MESSAGE SELECT: S), and adjust the loop current to 20 ma.

c. Test Connections and Conditions.

(1) Connect the equipment as shown in figure 3-10.

(2) Turn on power for all components.

(3) Set the TS-2862/GGM-15(V) MARK POLARITY switch as required for a signal indication.

d. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
1	*SG-860/GGM-15(V):*	*TS-2862/GGM-15(V):*	*a.* Check nixie readout.	a. TS-2862/GGM-15(V) will indicate 0 percent distortion.
	P-N: N	RESET: AUTO	*b.* Set SG-860/GGM-15(V) PERCENT DISTORTION switch to 1,12, 13,24,25, 36, 37,48, and 49.	*b.* TS-2862/GGM-15(V) will indicate distortion within ±2 percent of PERCENT DISTORTION switch settling.
	DISTORTION SELECT: END S/S M	DISPLAY MODE: DIST (%)		
	PERCENT DISTORTION: 0	THRESHOLD % DISTORTION: 00		
	MESSAGE SELECT: MSG	CODE LEVEL: 5		
	CODE LEVEL: 5	TRANSITION: ALL		
	CHARACTER LENGTH: 7	INPUT: SERIES 20N		
	CHARACTER RE-LEASE: FREE RUN	DISTORTION: PEAK LATE		
	OSC: INT	ALARM: DISABLE		
	ALARM: DISABLE	BAUD RATE: 150		
	BAUD RATE: 150			
2	*SG-860/GGM-15(V):*	*TS-2862/GGM-15(V):*		
	DISTORTION SELECT: END S/S S	DISTORTION: PEAK EARLY	*a.* Set SG-8601/GGM-15(V)PERCENT DISTORTION to 01,12,24,25,36,37,48, and 49.	*a*. TS-2862/GGM-15(V) will indicate distortion within ±2 percent of PERCENT DISTORTION setting.
			b. Momentarily set TS-2862/GGM-15(V) RESET switch to MANUAL and then return	*b.* Nixie display will indicate 00 and then return to 49.
			c. Set TS-2862/GGM-15(V) BAUD RATE switch to 300 or above, and reset nixie display.	c. Nixie display will indicate 00.

5-13. Thirty-Ma Polar, High Z Bridging Test

a. Test Equipment and Materials.

(1) Generator, Signal SG-860/GGM-15(V).

(2) Power Supply PP-3941/6.

b. Initial Test Equipment Calibration.

(1) Strap the SG-860/GGM-15(V) to produce a high-level polar signal output at the DRY CONTACTS.

(2) Adjust mark and space current to 30 ma.

c. Test Connections and Conditions.

(1) Connect the equipment as shown in figure 3-11.

(2) Turn on power for all components.

(3) Set the TS-2862/GGM-15(V) MARK POLARITY switch as required for a signal indication.

d. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
1	*SG-860/GGM-15(V):* P-N: P DISTORTION SELECT BIAS M PERCENT DISTORTION: 25 MESSAGE SELECT: MSG CODE LEVEL: 5 CHARACTER LENGTH: 7 CHARACTER RELEASE: FREE RUN OSC: INT ALARM: DISABLE BAUD RATE: 150	*TS-2862/GGM-15(V):* RESET: AUTO DISPLAY MODE: DIST (%) THRESHOLD % DISTORTION: 00 CODE LEVEL: 5 TRANSITION: ALL input; series 30P DISTORTION: AVG BIAS S/M ALARM: DISABLE BAUD RATE: 150	*a.* Check nixie readout. *b.* Set TS-2862/GGM-15(V) INPUT to BRIDGING IZ and connect DATA ± 6/12 V OUTPUTS jack to BRIDGING INPUTS jack.	*a.* TS-2862/GGM-15(V) will indicate 25 percent marking bias ±2 percent. *b.* TS-2862/GGM-15(V) will indicate 25 percent marking bias and nixie will reset after 5 seconds.

5-14. Display Mode Test

a. Test Equipment and Materials.

(1) Generator, Signal SG-860/GGM-15(V).

(2) Power Supply PP-3941/6.

b. Initial Test Equipment Calibration.

(1) Strap the SG-860/GGM-15(V) to produce a high-level neutral output at the DRY CONTACTS jack.

(2) Adjust the loop current for 60-ma ready mark.

c. Test Connections and Conditions.

(1) Connect the equipment as shown in figure 3-12.

(2) Turn on power for all components.

(3) Set the TS-2862/GGM-15(V) MARK CLARITY switch as required for signal indication.

d. Procedure.

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
1	*SG-860/GGM-15(V):* P-N: N	*TS-2862/GGM-15(V):* RESET: AUTO	*a.* Check nixie readout reset.	*a.* Nixies will indicate 00 after

Step No.	Control settings: Test equipment	Control settings: Equipment under test	Test procedure	Performance standard
	DISTORTION SELECT: BIAS M	DISPLAY MODE: PEAK MON (HITS)	*b.* Set TS-2862/GGM-15(V) threshold to 23.	*b.* Nixie will indicate 99 and OVERFLOW lamp will light.
	PERCENT DISTORTION: 25	THRESHOLD % DISTORTION: 27	*c.* Set both BAUD RATE switches to 9600 and reset nixies.	*c.* Nixies will indicate 00 and overflow lamp will not light.
	MESSAGE SELECT: MSG	CODE LEVEL: 5		
	CODE LEVEL: 5	TRANSITION: ALL		
		INPUT: SERIES 60N		
	CHARACTER LENGTH: 7	DISTORTION: PEAK TOTAL		
	CHARACTER RELEASE: FREE RUN			
	OSC: INT	ALARM: DISABLE		
	ALARM: DISABLE			
	BAUD RATE: 37.5	BAUD RATE: 37.5		

5-15. Summary of Performance Standards

Test	Test data	Performance standard	Test	Test data	standard
Power supply voltage tests	¾	± 13.5 to ± 16.5 volts dc		¾	1,920,000
	¾	-13.5 to -16.5 volts dc		¾	37 ±2%
	¾	-5.5 volts dc		¾	48 ±2%
	¾	±5.5 volts dc		¾	49 ± 2%
	¾	+190 to 210 volts dc		¾	0 ±2%
	¾	+190 to 210 volts dc		¾	1 ±2%
Baud rate frequency tests	¾	7,500 1 Hz		¾	12 ±2%
	¾	9,090		¾	24 ±2%
	¾	10,000		¾	25 ±2%
	¾	12,224		¾	36 ±2%
	¾	15,000		¾	37 ±2%
	¾	30,000		¾	48 ± 2%
	¾	60,000		¾	49 ± 2%
	¾	120,000	30-ma polar signal high-		
	¾	240,000	impedance bridging test	¾	25 ± 2%
	¾	480,000		¾	25 ± 2%
	¾	960,000	Display mode test	¾	±2%

CHAPTER 6

DEPOT OVERHAUL STANDARDS

6-1. Applicability of Depot Overhaul Standards

The tests outlined in this chapter are designed to measure the performance capability of repaired equipment. Equipment that meets the minimum standards stated in the tests will have performance capabilities equivalent to that of new equipment.

6-2. Applicable References

a. Repair Standards. Applicable procedures of the depots performing this test and its general standards for repaired signal equipment form a part of the requirements for testing this equipment.

b. Technical Publications. The complete set of technical manuals for this equipment includes TM 11-6625-1668-12.

c. Modification Work Orders. Perform all applicable Modification Work Orders pertaining to this equipment before making the tests specified. DA Pam 25-30 lists all current MWO's.

6-3. Test Facilities Required

The following equipments or suitable equivalents, will be used when determining compliance with the requirements of this specific standard.

Equipment	Stock No.	Qty. Req.	Applicable Literature
Oscilloscope AN/USM-140A	6625-053-3112	1	TM 11-6625-535-15
Counter, Electronic AN/USM-207	6625-911-6368	1	TM 11-6625-700-10 TM 11-6625-700-25
Multimeter AN/PSM-6B	6625-957-4374	1	TM 11-6625-475-10 TM 11-6625-475-25
Generator, Signal SG-860/GGM-15(V)	6625-219-2525	1	TM 11-6625-1668-12
Polar Battery Supply		1	
Standard phone patch cord (tip-data; sleeve-return)		2	
Cable Assembly, Special Purpose, Electrical CX-12024/U		1	TM 11-6625-1668-12

6-4. Test Setup for the TS-2862/GGM-15(V)

The purpose of the Analyzer test setup is to prepare the equipment for testing (refer to figures in chap 3). The acceptance test must be performed in the sequence given.

a. Set all controlson the TS-2862/GGM-15(V) as follows:

(1) Set the POWER switch to OFF.

(2) Set the MARK POLARITY switch to -(negative).

(3) Set the RESET switch to OFF.

(4) Set the DISPLAY MODE switch to DIST %.

(5) Set the THRESHOLD switch to 00.
(6) Set the CODE LEVEL switch to 5.
(7) Set the INPUT switch to SERIES, 6 ON.
(8) Set the FILTER switch to OUT.
(9) Set the TRANSITION switch to ALL.
(10) Set the DISTORTION switch to AVERAGE, BIAS S/M.
(11) Set the ALARM switch to DISABLE.
(12) Set the BAUD RATE switch to 37.5.

b. Remove all plug-in assemblies from the unit.

NOTE

During each test it is assumed that all previous test results have been within acceptable limits.

6-5. Final Test Procedures

The purpose of the final test procedure is to insure that repaired or maintained equipment meets the same operational requirements as new equipment.

a. Power Supply Test.

(1) Install assembly 2A2A1 into its associated connector.
(2) Connect the power cable to rear panel connector 2A3J4. DO NOT connect it to an ac source.
(3) Set the multimeter to the R X 1 scale.
(4) Connect positive probe of the multimeter to the ac ground.
(5) Connect the negative probe of the multimeter to chassis.
(6) Multimeter measures less than one ohm resistance.
(7) Connect the positive probe of the multimeter to the low side of the ac line.
(8) Connect the negative probe to chassis.
(9) The multimeter measures infinity.
(10) Connect the negative probe of multimeter to the high side of the ac line.
(11) Connect the positive probe of the multimeter to chassis.
(12) The multimeter measures infinity.
(13) Connect the power cord to 117 volt ac source.
(14) Set the POWER switch to ON.
(15) Set the multimeter to the 0-10 volt DC scale.
(16) Connect the negative probe of the multimeter to 2A1TP1.
(17) Connect the positive probe of the multimeter to 2A1TP2.
(18) Measure +5.5 ±0.5 volts on the multimeter. If correct reading is not obtained, adjust 2A1R7.
(19) Connect the positive probe of the multimeter to 2A1TP1.
(20) Connect the negative probe of the multimeter to 2A1TP4.
(21) Measure -5.5 ±0.5 volts on the multimeter. If correct reading is not obtained, adjust 2A1R19.
(22) Set the multimeter to the 0-50 volt DC scale.
(23) Connect the positive probe of the multimeter to 2A1TP3.
(24) Connect the negative probe of the multimeter to 2A1TP1.
(25) Measure +15 ±3 volts.
(26) Set the POWER switch to OFF.
(27) Install all assemblies into their associated connectors.

(28) Set the POWER switch to ON.
(29) Repeat steps 15, 16, 17 and 18.
(30) If the correct reading is not obtained, adjust potentiometer 2A1R7.
(31) Repeat steps 19, 20 and 21.
(32) If the correct reading is not obtained, adjust potentiometer 2A1R19.

b. Oscillator Failure Alarm Test.

(1) Set the ALARM switch to RESET and release.
(2) The OSC FAILURE lamp does not illuminate and the audible alarm does not sound.
(3) Set the BAUD RATE switch to EXT.
(4) The OSC FAILURE lamp illuminates and the audible alarm sounds.
(5) Set the ALARM switch to RESET.
(6) Set BAUD RATE switch to 9600 and clock lamp will extinguish.

c. Oscillator Baud Rate Test.

(1) Connect the input to the frequency counter to 2A2A7TP2.
(2) Connect the frequency counter ground to 2A2A1TP1.
(3) Measure the frequency for each baud rate listed in the following chart.

Baud Rate	Frequency KHz
37.5	7.500 ±1%
45.45	9.090 ±1%
50	10.000 ±1%
61.12	12.224 ±1%
75	15.000 ±1%
150	30.000 ±1%
300	60.000 ±1%
600	120.000 ±1%
1200	240.000 ±1%
2400	480.000 ±1%
4800	960.000 ±1%
9600	1920.000 ±1%

(4) Set the POWER switch to OFF.
(5) Remove assembly 2A2A7 and remove the 195.584 kHz crystal from position Y2.
(6) Inspect the crystal holder to insure good pin contact.
(7) Install the 195.584 kHz crystal into position Y4.
(8) Insure strap at position 4 is connected.
(9) Install Assembly 2A2A7 into its associated connector.
(10) Set the POWER switch to ON.
(11) Set the BAUD RATE switch to SPARE.
(12) Read a frequency of 24.447 ±1% kHz on the frequency counter.
(13) Set the POWER switch to OFF.
(14) Replace 195.584 kHz crystal into position Y2.
(15) Set the BAUD RATE switch to EXT.
(16) Set the CALIBRATOR AMPLITUDE switch of the AN/USM-140A oscilloscope to 5 volts.
(17) Connect the calibrator output from the AN/USM-140A oscilloscope to 2A3J1.
(18) Connect the frequency counter input lead to 2A2A7TP2.
(19) Set the POWER switch to ON.
(20) Measure the external timing signal frequency 1000 Hz ±10% on the frequency counter.
(21) The oscillator failure lamp may illuminate and the alarm may sound.
(22) Disconnect all test equipment.

d. Input Select Test.

(1) Set the Analyzer controls as follows:
MARK POLARITY switch to Positive (±)
INPUT switch to SERIES 60N
DISPLAY MODE switch to DIST %

TRANSITION switch to ALL
POWER switch to OFF

(2) Set the Generator POWER switch to OFF.

(3) Using a high level power supply make the following connections:

Power supply to Generator

Common	PIN 15 of 1A3J3
-150 Volts	PIN 17 of 1A3J3

(4) Connect a patch cord from the Generator DRY CONTACTS jack to the high level loop supply. Connect another patch cord from the high level loop supply to the Analyzer SERIES INPUT jack.

(5) Connect the CX-12024/U between 1A3J of the Generator and 1A3J3 of the Analyzer.

(6) Adjust the Power Supply for 60 ma.

(7) Set the POWER switches in the Analyze and the Generator to ON.

(8) Set the Generator MESSAGE SELECT switch to M (mark).

(9) The SIGNAL indicator lamp is illuminated on Generator.

(10) Set the Generator MESSAGE SELECT switch to S (space).

(11) The SIGNAL indicator lamp is not illuminated on Generator.

e. Transition, Filter and Code Level Test.

(1) Using the same connections as paragraph *d*. above, set the Generator MESSAGE SELECT switch to SELECTED CHARACTER BITS, using 60 MA loop from the Dry contacts of the SG-260 to the Series Input for the TS-2862.

(2) Set the Bit 4 switch to M (mark).

(3) Set the Generator and Analyzer BAUD RATE switches to 150.

(4) Set the Analyzer FILTER switch to IN.

(5) Set the Generator and Analyzer CODE LEVEL switches to 8.

(6) Set the Analyzer DISTORTION switch to PEAK TOTAL.

(7) Read 00 ± 2% distortion on the Analyzer. Reset nixie readout with MAN RESET.

(8) Set BITS 5, 6, 7, and 8 to MARK one at a time and read 00 ±2% distortion for each bit switch operated. Reset nixie display with MAN RESET after each reading.

f. Synchronous Distortion Measurement Test.

(1) Set the Generator MESSAGE SELECT switch to MSG.

(2) Set the Generator CHARACTER LENGTH switch to SYNC.

(3) Set the Generator PERCENT DISTORTION switches to 05.

(4) Set the Generator DISTORTION SELECT switch to BIAS M.

(5) Set the Generator CODE LEVEL switch to 5.

(6) Set the Analyzer CODE LEVEL switch to SYNC.

(7) Set the DISTORTION SELECT switch in Analyzer to AVERAGE BIAS S/M.

(8) Set THRESHOLD ERROR DEFINER switches to 49%.

(9) Read 5% ± 2% marking bias distortion on the Analyzer.

(10) Set the Generator DISTORTION SELECT switch to BIAS S.

(11) Read 5% ±2% spacing bias distortion or the Analyzer.

(12) Manually clear for 00 distortion.

g. Code Level and 20 ma Neutral Test.

(1) Set Generator MESSAGE SELECT to M (mark).

(2) Adjust the Power Supply for 20 ma.

(3) Set the Generator controls as follows: MESSAGE SELECT to SELECTED, CHARACTER BITS, PERCENT DISTORTION to 05, DISTORTION SELECT to END S/S, M, SELECTED CHARACTER BITS 1,2,3,4, 5, 7 and 8 to S, BIT 6 to M, CHARACTER LENGTH to 10, CODE LEVEL to 8

(4) Set the Analyzer controls as follows: CODE LEVEL to 7, DISTORTION to AVERAGE END M/S, Set MANUAL RESET switch to AUTO, TRANSITION to 7, INPUT switch to 2 ON

(5) Read 5% ± 2% marking end distortion on the Analyzer.

(6) Set the TRANSITION switch to 8.

(7) Read 0% distortion on the Analyzer.

(8) Set the Analyzer controls as follows: CODE LEVEL to 7, DISTORTION to AVERAGE, BIAS S/M, SELECTED CHARACTER BITS 8 to M, TRANSITION to 8, DISTORTION SELECT to MARK BIAS

(9) Read 5% + 2% marking bias on the Analyzer.

(10) Set the TRANSITION switch to 7.

(11) Set the Analyzer RESET switch to MAN.

(12) Read 0% ± 2% distortion on the Analyzer.

(13) Disconnect all test equipment.

h. Nixie, 20 ma Polar, and Code Level Test.

(1) Connect the wire from 1A3J3-16 to the +150 volts of the polar power supply.

(2) With the polar power supply adjusted for 20 ma, connect a patch cord from the Generator DRY CONTACTS output jack to the Analyzer SERIES INPUTS jack.

(3) Set the Generator controls as follows: P-N switch to P, CODE LEVEL to 5, CHARACTER LENGTH to 7, DISTORTION SELECT to END S/S, M, MESSAGE SELECT switch to MSG

(4) Set the Analyzer controls as follows: Reset switch to AUTO, CODE LEVEL to 5, TRANSITION to ALL, DISTORTION to PEAK, LATE, INPUT to 20P

(5) Read the percent distortion on the Analyzer as listed below.

PERCENT DISTORTION (generator)	Analyzer reading ± 2%
0	0
1	1
12	12
13	13
24	24
25	25
36	36
37	37
48	48
49	49

(6) Set the Generator DISTORTION SELECT switch to END S/S, S.

(7) Set the Analyzer DISTORTION switch to PEAK, EARLY.

(8) Read the percent distortion on the Analyzer as listed in table 6-2.

(9) Set the RESET to MAN and release.

(10) Nixie displays 00 when reset and returns to 49.

(11) Set the BAUD RATE switches (Generator and Analyzer) to 150.

(12) Set the Generator PERCENT DISTORTION switches to 00.

(13) Read 0% ±2% distortion on the Analyzer display.

(14) Disconnect all test equipment.

i. HIZ Bridging and 30 ma Polar Test.

(1) Set Generator to Mark. Adjust Power Supply for 30 ma. Connect a patch cord from the Generator DRY CONTACTS output jack to the Analyzer SERIES INPUTS jack.

(2) Set the Generator controls as follows: P-N switch to P, PERCENT DISTORTION to 25, DISTORTION SELECT to BIAS M, Set MESSAGE SELECT switch to MSG

(3) Set the Analyzer controls as follows: INPUT to 30P, DISTORTION to AVERAGE, BIAS S/M

(4) Read 25 +2% marking bias on the Analyzer.

(5) Remove the patch cord from the Analyzer SERIES input jack and connect to the BRIDGING INPUTS jack.

(6) INPUT switch to HIZ Bridging.

(7) Read 25% +2% marking bias on the Analyzer.

(8) Set the RESET switch to AUTO.

(9) The nixie display is reset to zero at 3 to 5 second intervals.

(10) Disconnect all test equipment.

j. Peak Monitor Test.

(1) Connect a patch cord from the Generator DATA output jack to the Analyzer BRIDGING.

(2) Set the BAUD RATE switches (Generator and Analyzer) to 37.5.

(3) Set the Generator PERCENT DISTORTION switches to 25.

(4) Set the DISTORTION SELECT switch to BIAS M (mark).

(5) Set the Analyzer controls as follows: DISPLAY MODE to PEAK MON., THRESHOLD thumbwheel to 27.

(6) Set the RESET switch to MAN and release.

(7) Read 0% +2% on the nixie display.

(8) Set the THRESHOLD thumbwheel switches to 23.

(9) Read an increasing count on the nixie display.

(10) The OVERFLOW indicator lamp illuminates after a count of 99.

(11) Disconnect all test equipment.

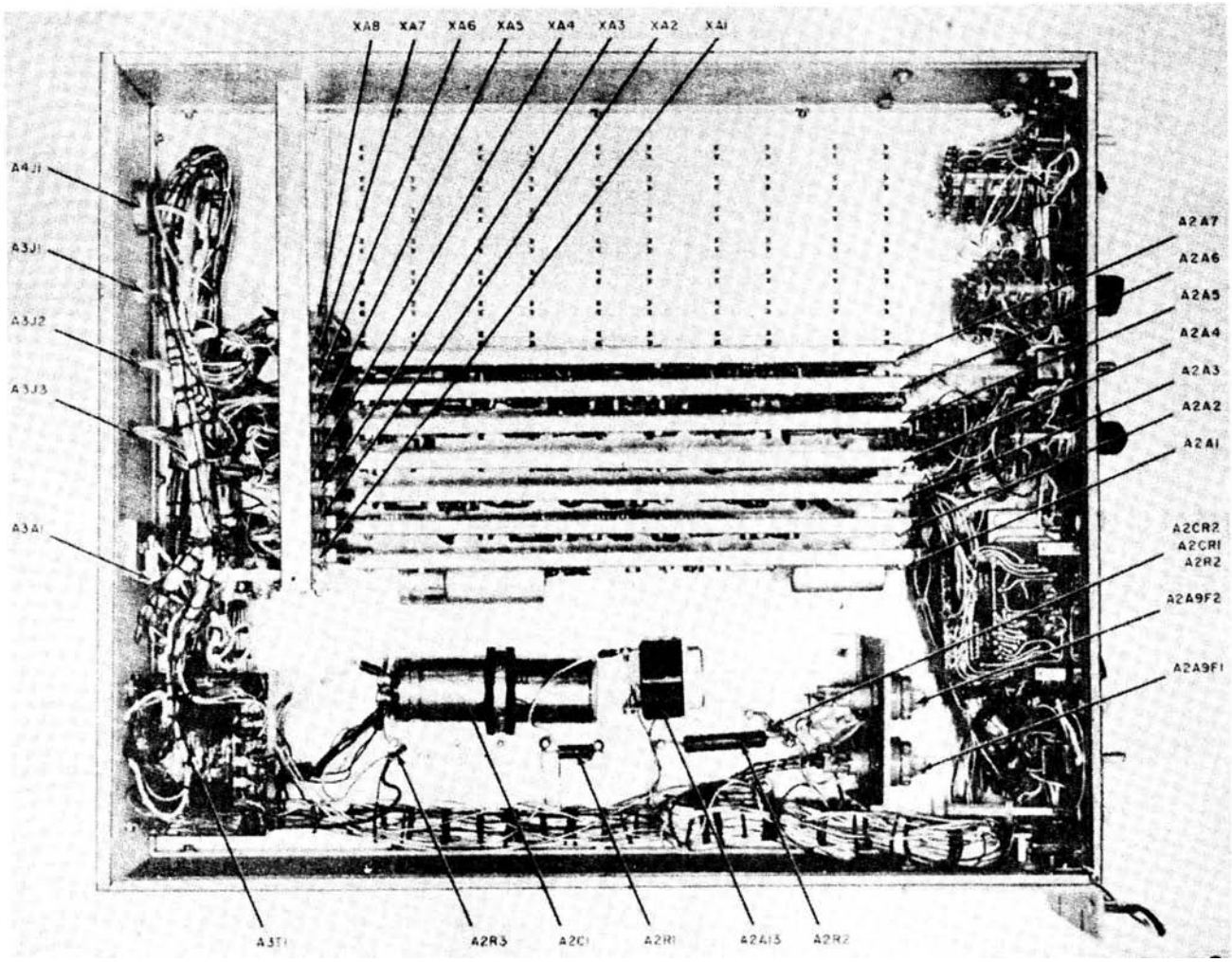
k. Pseudo Random Message Test.

(1) Set the Generator controls as follows: DISTORTION SELECT to NO DIST., MESSAGE SELECT to EXT., BAUD RATE to 9600

(2) Set the Analyzer controls as follows: DISPLAY MODE to 106., ERROR DEFINER thumbwheels to 54., BAUD RATE to 9600., Set RESET switch to MANUAL.

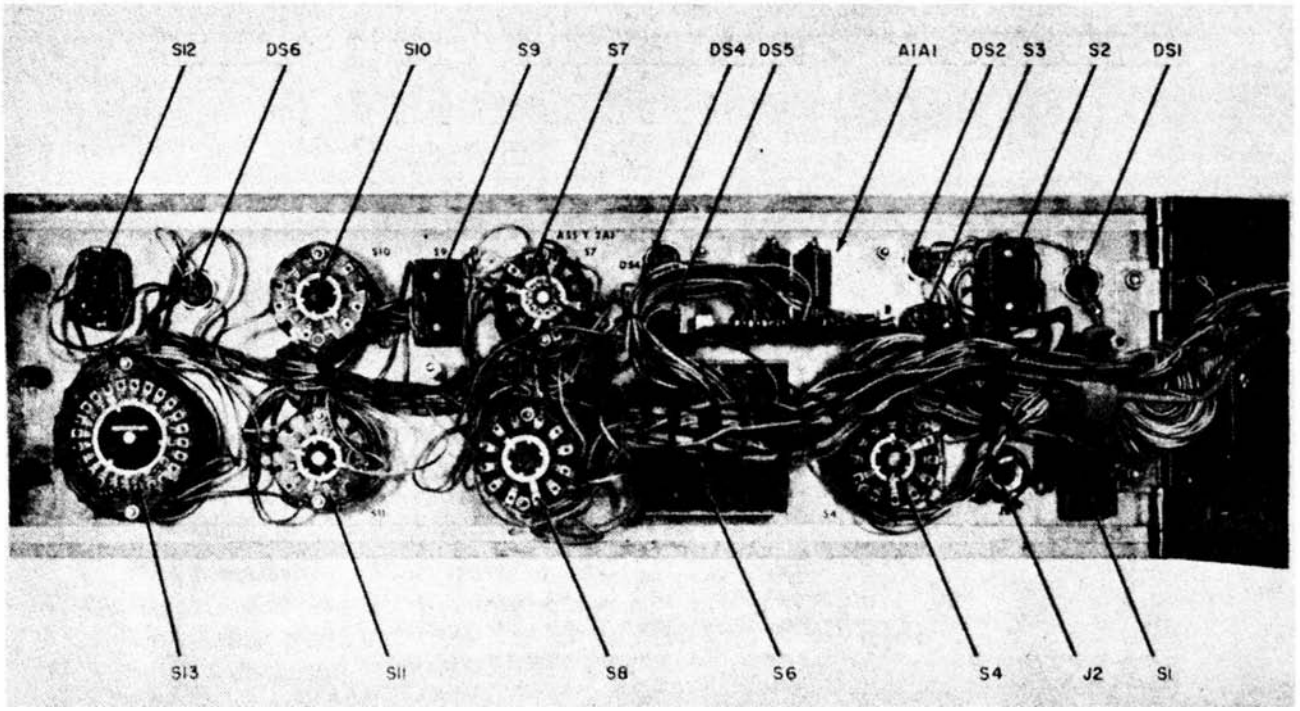
(3) Approximately 1.75 minutes after the START lamp illuminates, the FINISH lamp will illuminate.

(4) Set the Generator and Analyzer POWER switches to OFF and disconnect all test equipment.



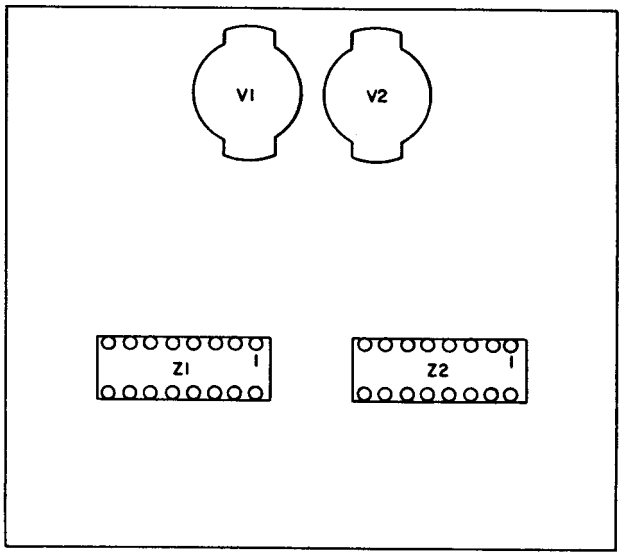
EL6625-1668-45/2-29①

Figure 6-1①. Component designations (sheet 1 of 2).



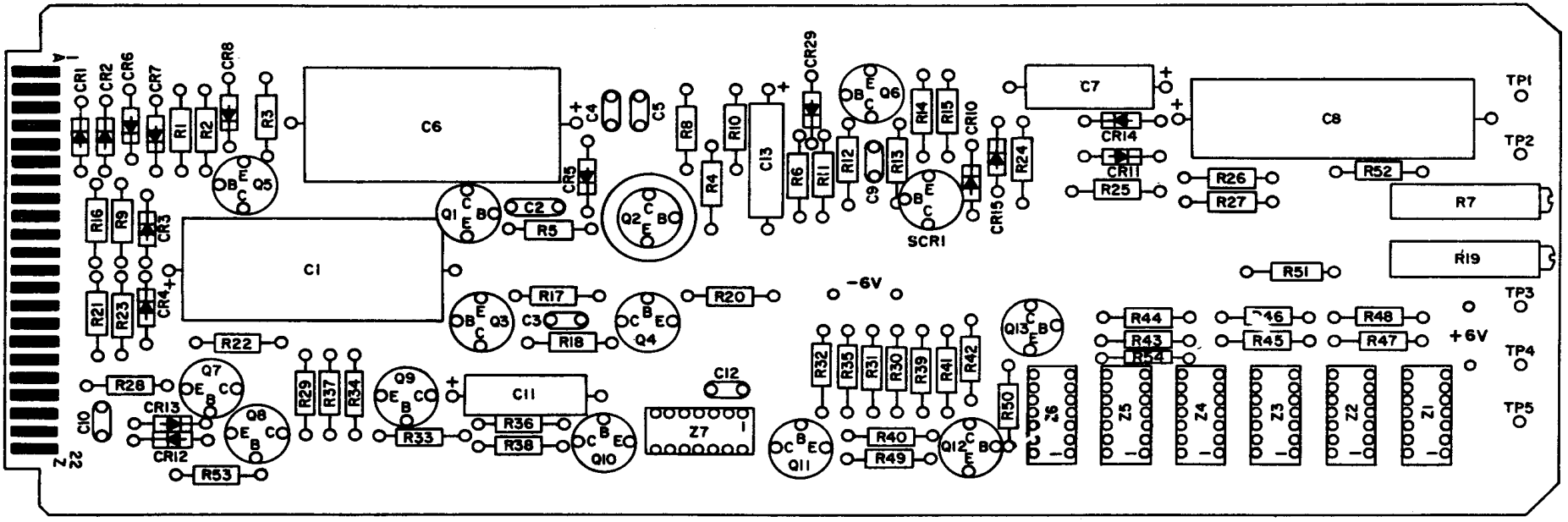
EL6625-1688-45/2-29②

Figure 6-1②. Component designations (sheet 2 of 2).



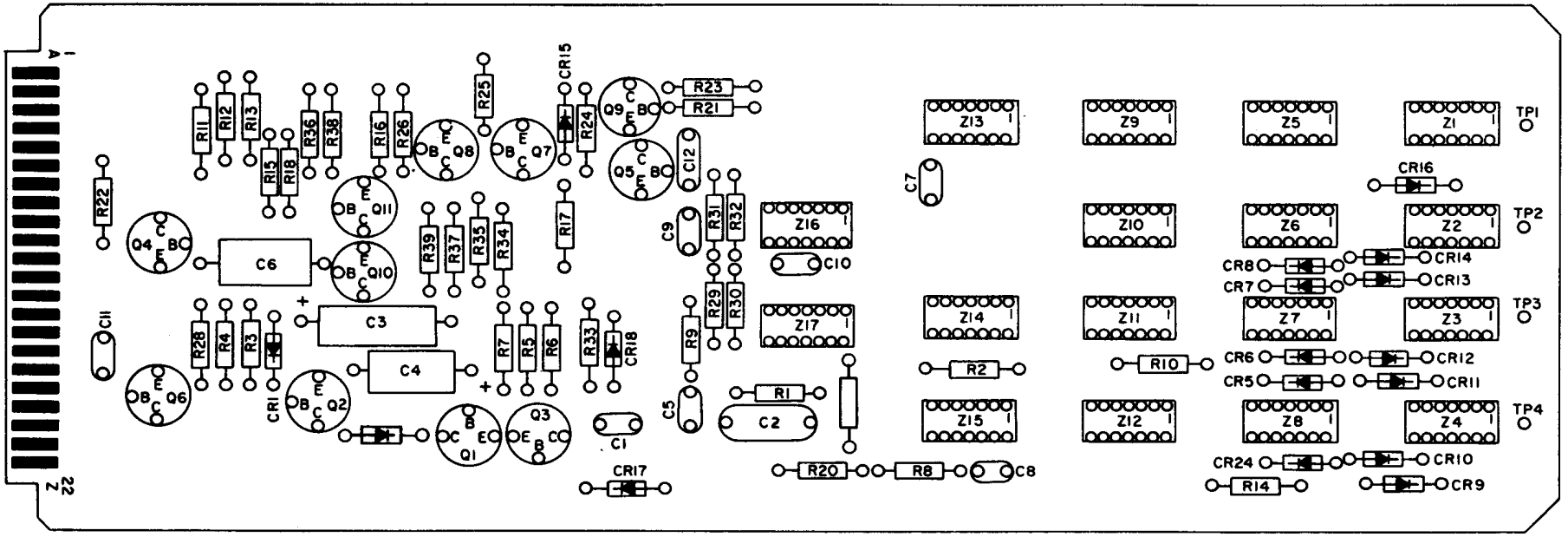
EL6625-1668-45/2-36

Figure 6-2. Nixie display, parts locations.



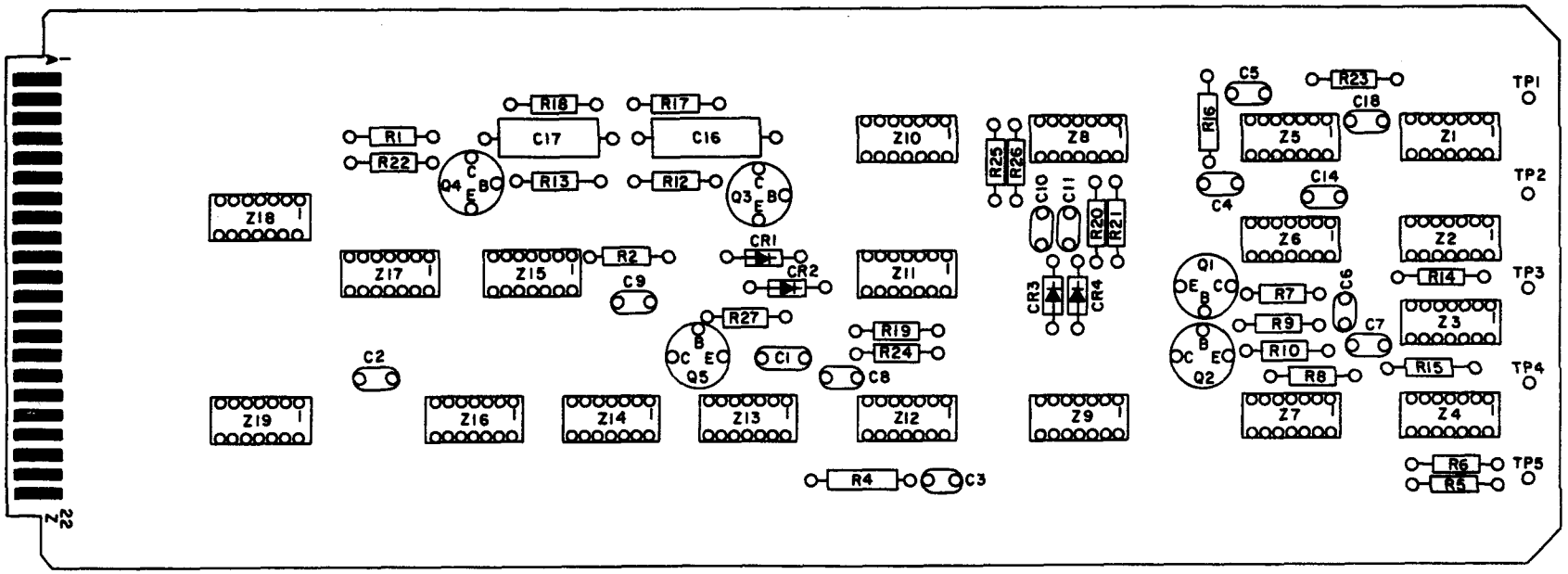
EL6625-1688-45/2-37

Figure 6-3. Error counter and oscillator alarm circuits 2A2A1, parts locations.



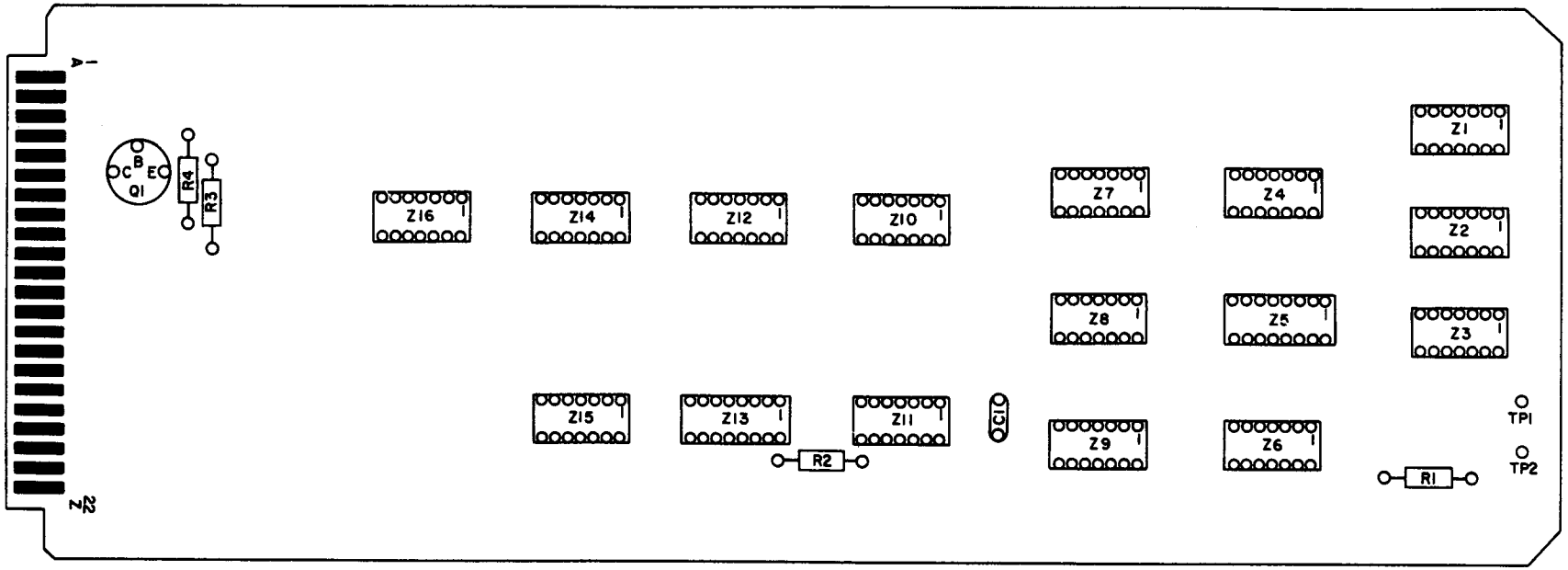
EL6625-1668-45/2-35

Figure 6-4. Error code generator 2A2A2, parts locations.



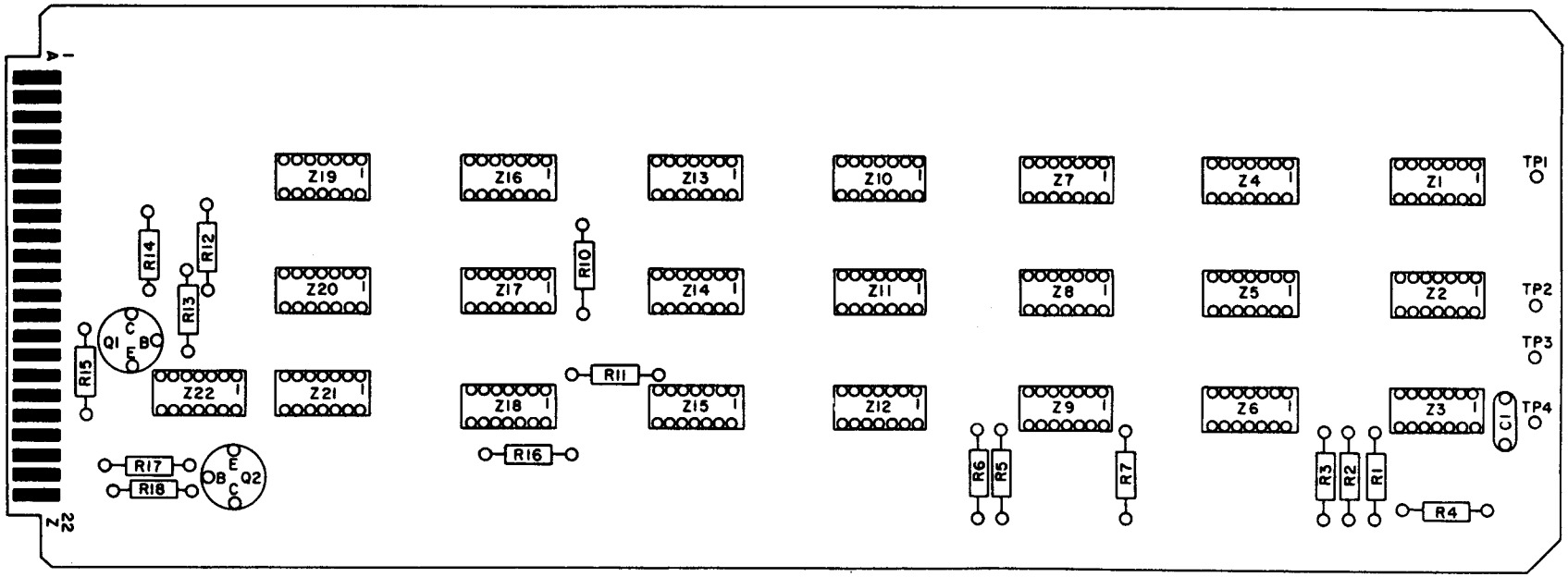
EL6625-1668-45/2-34

Figure 6-5. Transfer control and bit counter 2A2A3, parts locations.



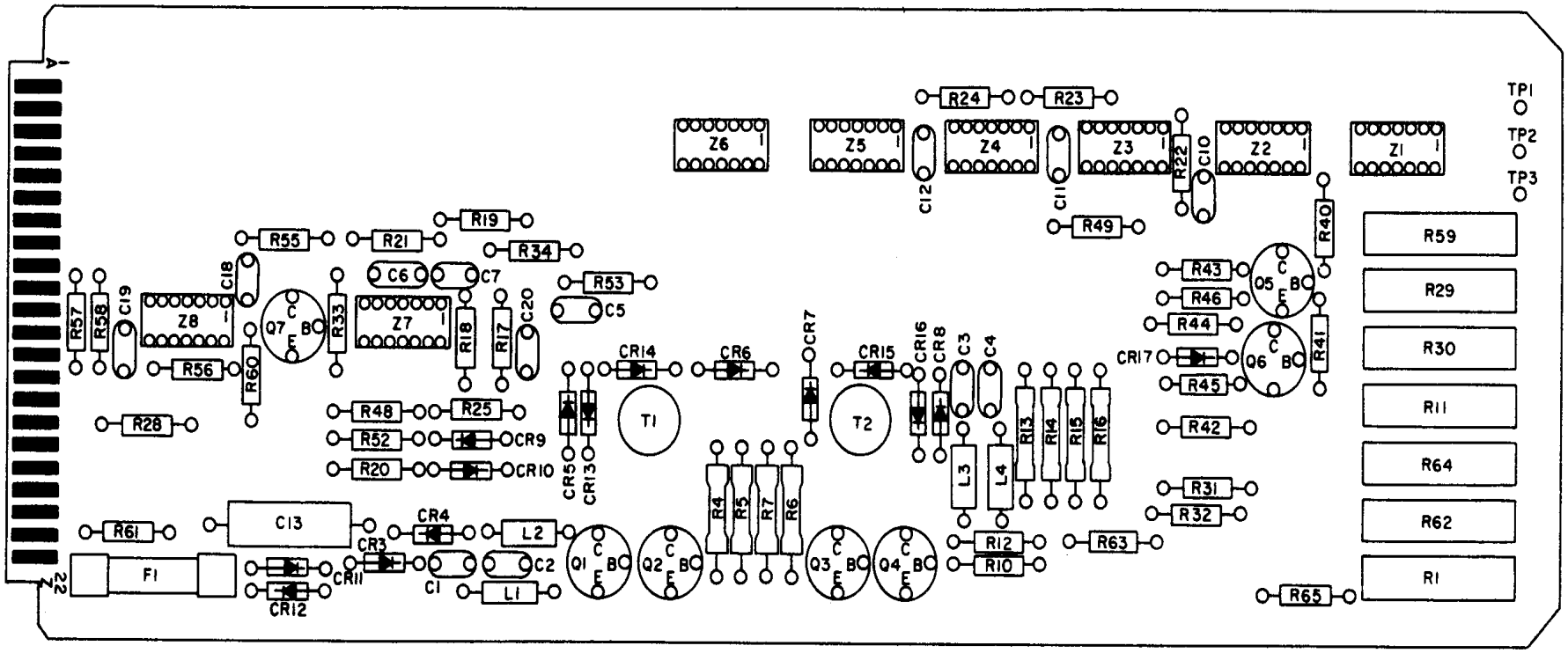
EL6625-1668-45/2-33

Figure 6-6. Peak detector 2A2A4, parts locations.



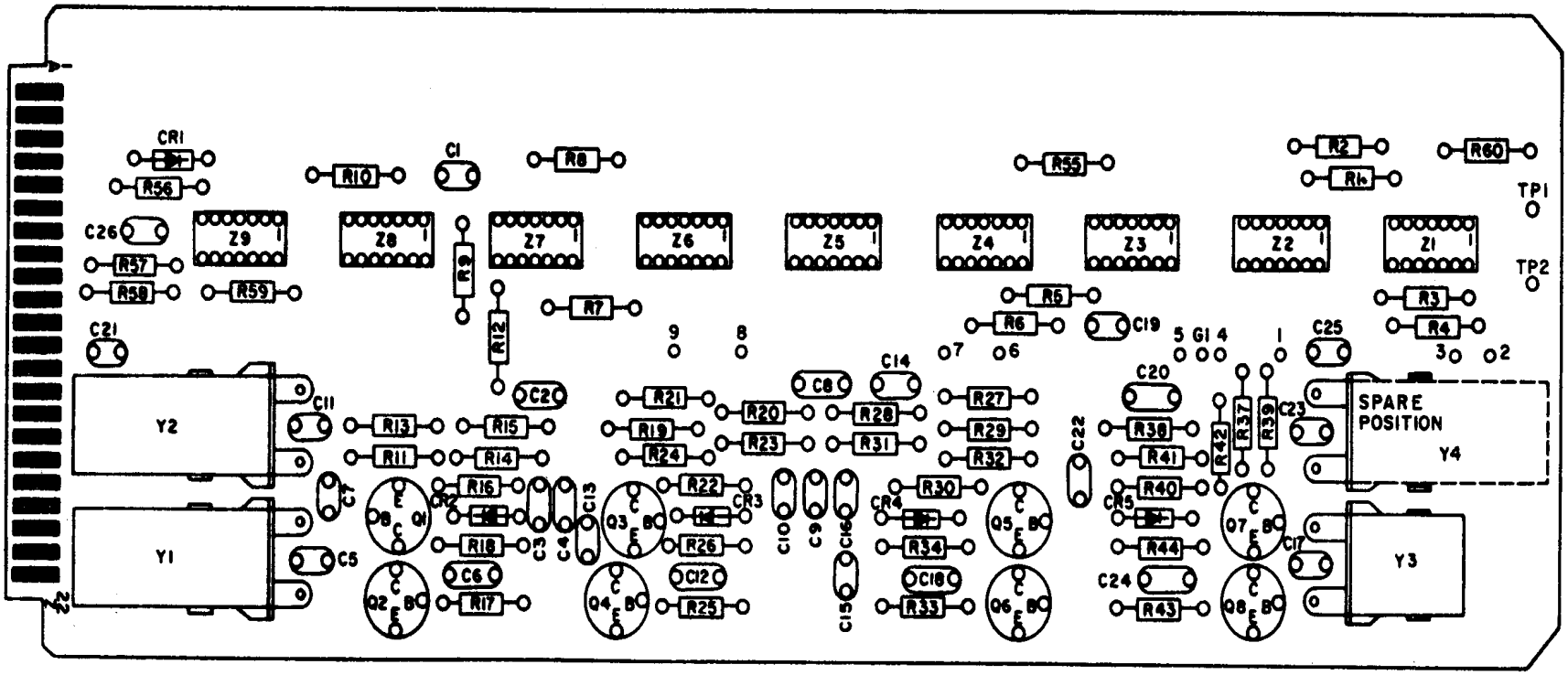
EL6625-1668-45/2-32

Figure 6-7. Units/tens decades 2A2A5, parts locations.



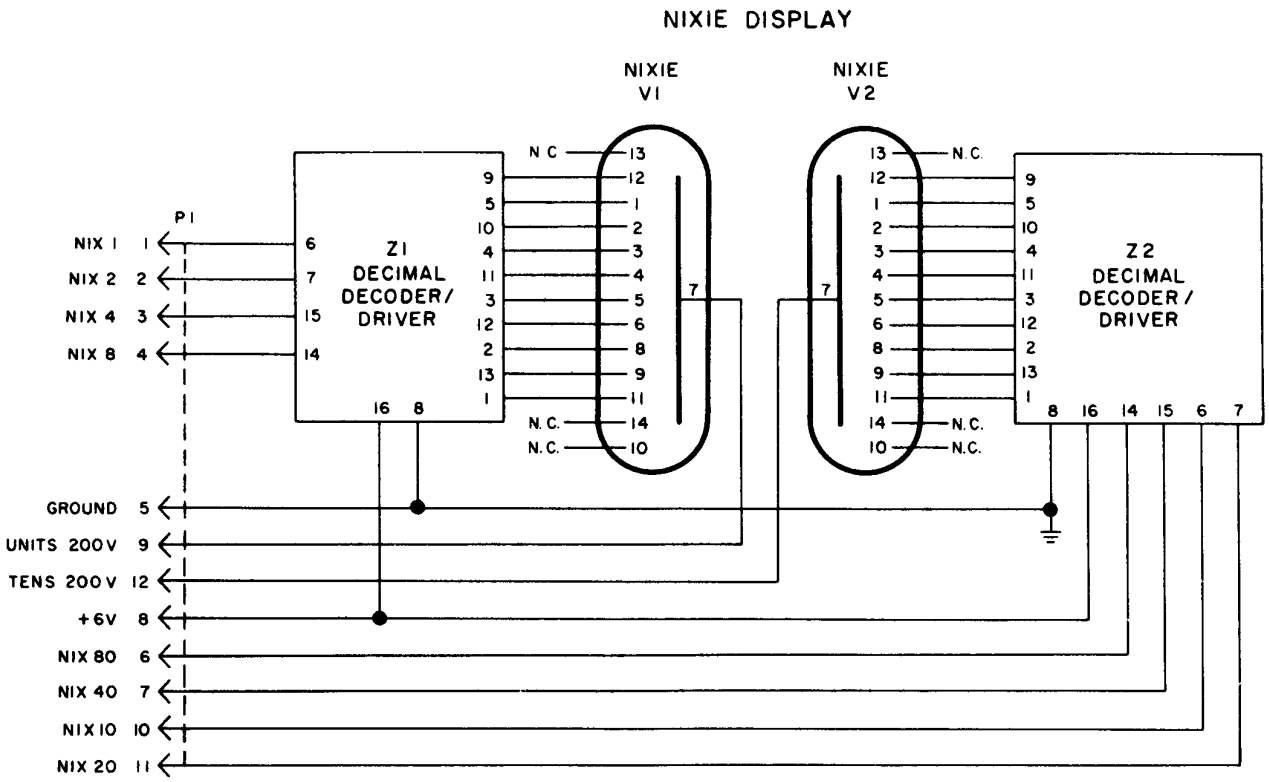
EL6625-1668-45/2-31

Figure 6-8. Input circuits 2A2A6, parts locations.



EL6625-1668-45/2-30

Figure 6-9. Oscillator and time base 2A2A7, parts location.



NOTES

1. PARTIAL REFERENCE DESIGNATION SHOWN. PREFIX ALL DESIGNATIONS WITH ASSEMBLY NUMBER AND/OR SUBASSEMBLY DESIGNATION.
2. INTEGRATED CIRCUITS, UNLESS OTHERWISE SHOWN, ARE GROUNDED ON PIN 7 AND BIASED ON PIN 14(+6VDC).

EL6625-1668-45/2-10

Figure 6-10. Nixie display 2A1A1, schematic diagram.

Figure 6-11. Not used.

APPENDIX A

REFERENCES

DA Pam 25-30	Consolidated Index of Army Publications and Blank Forms.
DA Pam 738-750	The Army Maintenance Management System (TAMMS).
TB SIG 222	Solder and Soldering.
TB 9-6625-949-50	Calibration Procedure for Pulse Generator Sets AN/UPM-15 and AN/UPM-15A; Pulse Generators TS-592A/UPM-15, TS-592B/UPM-15 and SG-343/UPM-15A.
TM 9-6625-2362-12	Operator's Manual: Oscilloscope AN/USM-281.
TM 11-6130-242-15	Organizational, DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists, Power Supply PP-3941/G.
TM 11-6625-475-10	Operator's Manual: Multimeters AN/PSM-6, AN/PSM-6A, and AN/PSM-6E
TM 11-6625-700-10	Operator's Manual: Digital Readout, Electronic, Counter, AN/USM-207.
TM 11-6625-1668-12	Operator and Organizational Maintenance Manual Including Repair Parts and Special Tool List: Test Sets, Telegraph AN/GGM-15(V)1 and AN/GGM-15(V)2.
TM 11-6625-1668-45-1	General Support and Depot Maintenance Manual for Test Sets, Telegraph AN/GGM-15(V)1 and AN/GGM-15(V)2: Generator, Signal SG-860/GGM-15(V).
TM 11-6625-1668-45-3	General Support and Depot Maintenance Manual for Test Sets, Telegraph AN/GGM-15(V)1 and AN/GGM-15(V)2: Oscilloscope OS-206/GGM-15(V)
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

APPENDIX B

REPAIR PARTS FOR GENERAL SUPPORT AND DEPOT MAINTENANCE

Section I. INTRODUCTION

B-1. Scope

This appendix contains a list of repair parts required for the performance of general support and depot maintenance for Analyzer, Signal Distortion TS-2862/GGM-15(V).

NOTE

No special tools, test, and support equipment is required.

B-2. General

This repair parts list is divided into the following sections.

a. Repair Parts for General Support and Depot Maintenance-Section II. A list of repair parts authorized for maintenance performance at general support and depot level.

b. Federal Stock Number Cross-Reference Index-Section III. An index of Federal stock numbers cross-referenced to figure number and reference designation.

B-3. Explanation of Columns

The following is an explanation of the columns in the tabular lists.

a. Source, Maintenance, and Recoverability Codes, Column 1.

(1) The source code indicates the selection status and source for the listed item. Source codes used are:

Code	Explanation
P	Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.
M	Repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
A	Assemblies which are not procured or stocked as such but are made up of two or more units, each of which carry individual stock numbers and descriptions, are procured and stocked separately, and can be assembled to form the required assembly at indicated maintenance categories.
X	Repair parts and assemblies which are not procured or stocked, and the mortality of which normally is below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.
X1	Repair parts which are not procured or stocked. The requirement for such items will be filled by use of next higher assembly or component.
X2	Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain such parts through cannibalization. If they are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.

(2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:

Code	*Explanation*
O	Organizational maintenance
H	General support maintenance
D	Depot maintenance

(3) Recoverability code indicates whether unserviceable items should be returned for re- covery or salvage. Items not coded are expend- able. Recoverability codes are:

Code	*Explanation*
R	Repair parts and assemblies that are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.
T	High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
U	Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value reusable castings or casings.

b. Federal Stock Number, Column 2. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. Description, Column 3. An indenture code, the index number, the Federal item name, a five-digit manufacturer's code, and a manufacturer's part number are included in this column. For subsequent appearances of the same item, the manufacturer's code and part number are omitted. The words "SAME AS" followed by the index number assigned to the item when it first appeared in the list will follow the item name, e.g., "RESISTOR, FIXED, COMPOSITION: SAME AS A293". The indenture codes indicate the end item, the assemblies, and the component parts. Identical codes are parts of the preceding higher code. An asterisk (*) indicates attaching hardware. The model column is not used.

d. Unit of Issue, Column 4. The unit used as a basis of issue (e.g., ea, pr, ft, yd, etc.) is noted in this column.

e. Quantity Incorporated in Unit Pack, Column 5. The actual quantity contained in the unit pack is indicated in this column.

f. Quantity Incorporated in Unit, Column 6. The quantity of repair parts in an assembly is indicated in this column. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF."

g. 30-Day GS Maintenance Allowances, Column 7.

(1) The allowance columns are divided into subcolumns. The total quantity of items authorized for the number of equipments supported is indicated in each subcolumn opposite the first appearance of each item. Subsequent appearances of the same item will have no entry in the allowance columns but will have a reference in the description column to the first appearance of the item. Items authorized for use as required, but not for initial stockage, are identified with an asterisk (*) in the allowance column.

(2) The quantitative allowances for GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

h. One-Year Allowances Per 100 Equipments/Contingency Planning Purposes, Column 8. Opposite the first appearance of each item, the total quantity required for distribution and contingency planning purposes is indicated. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

i. Depot Maintenance Allowance Per 100 Equipments, Column 9. This column indicates, opposite the first appearance of the item, the total quantity authorized depot maintenance for 100 equipments. Subsequent appearances of the same item will have no entry in this column, but will have a reference in the description column to the first appearance of the item.

j. Illustrations, Column 10.

(1) Figure number, column 10a. Indicates the figure number of the illustration in which the item is shown.

(2) Item or symbol number, column 10b. Indicates the reference designation used to identify the item in the illustration in which the item is shown.

B-4. Special Information

Repair parts mortality is computed from failure rates derived from experience factors with the individual parts in a variety of equipments. Variations in the specific application and periods of use of electronics equipment, the fragility of electronic piece parts, plus intangible material and quality factors intrinsic to the manufacture of electronic parts, do not permit mortality to be based on hours of end item use. However, long periods of continuous use under adverse conditions are likely to increase repair parts mortality.

B-5. Location of Repair Parts

a. Use the index of Federal stock numbers (sec. III) to locate the Federal stock number. The Federal stock numbers are listed in numerical ascending order and are cross-referenced to the figure number and reference designation.

b. Use the repair part lists (sec. II) to locate the reference designation as listed in section III.

B-6. Federal Supply Codes

This paragraph lists the Federal supply code and the associated manufacturer's name.

Code	*Manufacturer*
00530	DuMont Television and Radio Corp.
00853	Sangamo Electric Co., S. Carolina Div.
01295	Instruments Inc. Semiconductor - Components Division
02660	Amphenol Corp.
04713	Motorola Semiconductor Products Inc.,Phoenix, Ariz.
06540	Amatom Electronic Hardware Co., Inc, New Rochelle, N.Y.
07700	Technical Wire Products Inc.
08804	General Electric Co., Lamp Metals and Components Dept., Cleveland Wire Plant
09922	Fromberg Inc.
13103	Thermalloy Co.
13691	Sensor Systems Inc.
14031	Digitech Inc.
14674	Corning Glass Works
22599	Elastic Stop Nut Corp. of America Fastener Division
25677	Fairchild Camera and Instrument Corp. Instrumentation Division
31356	J-B-T Instruments Inc.
33173	General Electric Co.
46384	Penn Engineering and Mfg. Corp.
49956	Raytheon Co.
56289	Sprague Electric Co.
59730	The Thomas and Betts Co.
70318	Allmetal Screw Products Co.
70903	Belden Mfg. Co.
71279	Cambridge Thermionic Corp.
71468	ITT Cannon Electric Inc.
74545	Harvey Hubbell Inc.
74861	Industrial Condenser Corp.
75915	Littelfuse Inc.
79089	Radio Corp. of America Solid State and Receiving Tube Divsion
79963	Zierick Mfg. Corp.
80063	Army Electronics Command Procurement and Production Directorate
80294	Bourns Inc.
81349	Military Specifications
81831	The Filtron Co., Inc.
82121	Electro Switch Corp.
82389	Switchcraft Inc.
83330	Herman H. Smith Inc. Electronic Devices Inc.
90201	Mallory Capacitor Co.
90521	Burroughs Corp.
91506	Augat Inc.
93332	Sylvania Electric Products Inc. Semiconductor Products Division
96906	Military Standards
97954	U.S. Components Inc. Jan Hardware Mfg. Co.
99800	Delevan Electronics Corp.

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
			6625-435-7776							B	B144 ANALYZER, SIGNAL DISTORTION TS-2862/GGM-15(V): (THIS ITEM IS NONEXPENDABLE)	EA												6-1	2
X1	H									C	B145 PANEL ASSEMBLY, FRONT: 14031; SMD632913	EA	1	1									6-1	2A1
X2	H									*	B146 SCREW, MACHINE: 70318; 6-32X3-80VALHDCR	EA	1	3									6-1	2H3
X2	H									*	B147 WASHER, LOCK: 70318 6CRESLK	EA	1	3									6-1	2H3
X2	H									*	B148 NUT, PLAIN, HEXAGON: 70318 6-32 CRES	EA	1	2									6-1	2H2
X2	H		5310-050-0458							*	B149 NUT, SLEEVE: 83330; 2321	EA	1	1									6-1	2H1
X1	H									D	B150 BRACKET, SWITCH: 82121; 219M2	EA	1	1									6-1	2A1MP5
P	H									D	B151 SWITCH, THUMB WHEEL/2 SECTIONS:. 97524 219M	EA	1	1				*	2	2	12	5	6-1(2)	2A1S6
X2	H									*	B152 SCREW, MACHINE: 70318; 4-40X1-2PANHDCRES	EA	1	4									6-1(2)	2A1H4
M	H									D	B153 COVER ASSEMBLY, PROTECTIVE: 14031; SMC632929	EA	1	1									6-1(2)	2AAH2
X2	H									*	B154 SCREW, MACHINE: 70318 632X3-8PANHDCRES	EA	1	2									6-1(2)	2A1H2
X2	H									*	B155 WASHER, LOCK: SAME AS B147	EA	1	2									6-1(2)	2A1H2
X2	H									*	B156 WASHER, FLAT: 70318; 6CHESFL	EA	1	2									6-1(2)	2A1H2

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL											DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									E	B157 NUT, SLEEVE: 06540; 8237SS0632	EA	1	1									6-1(2)	2A1A2MP1
X2	H									*	B158 SCREW, MACHINE: 70318; SAME AS B146	EA	1	1									6-1(2)	2A1A2H1
X2	H									E	B159 NUT, SLEEVE: SAME AS B157	EA	1	1									6-1(2)	2A1A2MP3
X2	H									*	B160 SCREW, MACHINE: SAME AS B146	EA	1	1									6-1(2)	2A1A2H1
X2	H									*	B161 INSULATOR STRIP: 07700; 20116	EA	1	1									6-1(2)	2A1MP4
P	H		5935-608-0518							D	B162 JACK, TELEPHONE: 82389; L12A	EA	1	2				2	2	2	13	6	6-1(2)	2A1J1
P	H		5935-608-0518							D	B163 JACK, TELEPHONE: SAME AS B162	EA	1	REF									6-1(2)	2A1J2
P	H		5355-588-3095							D	B164 KNOB: 49956; 70-5-2	EA	1	6				2	2	2	30	18	6-1(2)	2A1MP6
P	H		5355-588-3095							D	B165 KNOB: SAME AS B164	EA	1	REF									6-1(2)	2AMP7
P	H		5355-588-3095							D	B166 KNOB: SAME AS B164	EA	1	REF									6-1(2)	2A1M8
P	H		5355-588-3095							D	B167 KNOB: SAME AS B164	EA	1	REF									6-1(2)	2A1MP9
P	H		5355-588-3095							D	B168 KNOB: SAME AS B164	EA	1	REF									6-1(2)	2A1MP10
P	H		5355-588-3095							D	B169 KNOB: SAME AS Bt64	EA	1	REF									6-1(2)	2A1MP11

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS			1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100			(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	O		6240-892-4420							D	B170 LAMP, GLOW: 96906; MS25252NE2D	EA	1	1				*	2	2	19	10	6-1(2)	2A1DS2
P	O		6240-722-6467							D	B171 LAMP, INCANDESCENT: 08804; 344	EA	1	5				4	5	6	297	250	6-1(2)	2A1DS1
P	O		6240-722-6467							D	B172 LAMP, INCANDESCENT: SAME AS B171	EA	1	REF									6-1(2)	2A1DS3
P	O		6240-722-6467							D	B173 LAMP, INCANDESCENT: SAME AS B171	EA	1	REF									6-1(2)	2A1DS4
P	O		6240-722-6467							D	B174 LAMP, INCANDESCENT: SAME AS B171	EA	1	REF									6-1(2)	2A1DS5
P	H									D	B175 LAMP, INCANDESCENT: SAME AS B171	EA	1	REF									6-1(2)	2A1DS6
P	H									D	B176 LAMPHOLDER: 81349; LH74LC13CN	EA	1	1				*	*	*	8	3	6-1(2)	2A1XDS2
P	H									D	B177 LAMPOLDER: 81349; LH73LC12CN	EA	1	5				2	2	2	27	15	6-1(2)	2AIXDS1
P	H									D	B178 LAMPHOLDER: SAME AS B177	EA	1	REF									6-1(2)	2A1XDS3
P	H									D	B179 LAMPHOLDER: SAME AS B177	EA	1	REF									6-1(2)	2A1XDS4
P	H									D	B180 LAMPHOLDER: SAME As B177	EA	1	REF									6-1(2)	2A1XDS5
P	H									D	B181 LAMPHOLDER: SAME AS B177	EA	1	REF									6-1(2)	2A1XDS6

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE																					
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) IN UN PK	(6) INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR ALW PER 100 EQUIP. CNTGCY	(9) DEPOT MAINT ALW. PER 100 EQUIP	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									D	B186 PANEL, FRONT: 14031 SMD632915	EA	1	1									6-1(2)	2A1MP1
X2	H									D	B187 RETAINER, SCREW ; 06540; 6252DSS0832	EA	1	2									6-1(2)	2A1MP2
X2	H									D	B188 RETAINER, SCREW: SAME AS B187	EA	1	REF									6-1(2)	2A1MP3
X2	H		5305-987-0119							*	B189 SCREW: EXTERNALLY RELIEVED BODY: 06540; 6105SS0832	EA	1	2									6-1(2)	2A1H2
P	H		5930-422-3421							D	B190 SWITCH, ROTARY: 14031; C3398	EA	1	1				*	*	2	8	3	6-1(2)	2A1S4
P	H		5930-196-6813							D	Bl91 SWITCH, ROTARY: 14031; C3393	EA	1	1				*	*	2	8	3	6-1(2)	2A1S7
P	H		5930-488-4763							D	B192 SWITCH, ROTARY: 14031; C3399	EA	1	1				*	*	2	8	3	6-1(2)	2A1S8
P	H		5930-452-1279							D	B193 SWITCH, ROTARY: 14031; C3394	EA	1	1				*	*	2	8	3	6-1(2)	2AlS10
P	H		5930-196-6817							D	Bl94 SWITCH, ROTARY: 14031; C3397	EA	1	1				*	*	2	8	3	6-1(2)	2A3S11

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	H		5930-452-1280							D	B195 SWITCH, ROTARY: 14031; C3396	EA	1	1				*	2	2	13	3	6-1 (2)	2A1S13
P	H		5930-655- 1508							D	B196 SWITCH, TOGGLE: 31356 ; ST22N	EA	1	2				*	2	2	13	6	6-1(2)	2A1S1
P	H		5930-655-1508							D	B197 SWITCH, TOGGLE: SAME AS B196	EA	1	REF									6-1(2)	2A1S2
P	H		5930-655-1523							D	B198 SWITCH, TOGGIE: 31356; ST42H	EA	1	2				*	2	2	13	6	6-1(2)	2A1S3
P	H		5930-655-1523							D	B199 SWITCH, TOGGLE: SAME AS B198	EA	1	REF									6-1(2)	2A1S12
P	H		5930-133-8614							D	B200 SWITCH, TOGGLE: 31356; ST12A	EA	1	1				*	*	*	3	3	6-1(2)	2A1S9
X2	H									*	B201 WASHER, FLAT: 83330; 2267	EA	1	2									6-1(2)	2A1H2
X2	H		5330-883-9455							*	B202 WASHER, SHOULDERRD: 83330; 2668	EA	1	2									6-1(2)	2A1H2
X2	H									D	B203 WINDOW: 14031; SM3632926	EA	1	1									6-1(2)	2A1MP13
X2	H									*	B204 SCREW, MACHINE: 70318; 4-40X3-80VALHDCRES	EA	1	2									6-1(2)	2A1H2
X2	H									*	B205 WASHER, LOCK: 70318; 4 CRESLK	EA	1	2									6-1(2)	2A1H2
X2	H									*	B206 NUT, PLAIN, HKXAGON: 70318; 4-40 CHEB	EA	1	2									6-1(2)	2A1H2
P	H	S	6625-449-7659							D	B207 COMPONENT BOARD: 14031; SMB633051	EA	1	1				*	*	*	5	2	6-1(2)	2A1A1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)					DS			GS					
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B208 SCREW, MACHINE: SAME AS B204	EA	1	2									6-1(2)	2A1H2
X2	H									E	B209 BRACKET, MOUNTING: 14031; SMB632932-1	EA	1	1									6-2	2A1AMP2
X2	H									*	B210 SCREW, MACHINE: 70318; 4-40X7-16PANHDCRES	EA	1	1									6-2	2A1A1H1
X2	H									*	B211 WASHER, FLAT: 70318; 4CRES FL	EA	1	1									6-2	2A1A1H1
X2	H									*	B212 WASHER, LOCK: SAME AS B205	EA	1	1									6-2	2A1A1H1
X2	H									*	B213 NUT, SLEEVE: 83330; 8480	EA	1	1									6-2	2A1A1H1
X2	H									E	B214 BRACKET, MOUNTING: SAME AS B209	EA	1	1									6-2	2A1A1MP3
X2	H									*	B215 SCREW, MACHINE: SAME AS B210	EA	1	1									6-2	2A1A1H1
X2	H									*	B216 WASHER, FLAT: SAME AS B211	EA	1	1									6-2	2A1A1H1
X2	H									*	B217 WASHER, LOCK: SAME AS B205	EA	1	1									6-2	2A1A1H1
X2	H									*	B218 NUT, SLEEVE: SAME AS B213	EA	1	1									6-2	2A1A1H1
P	H		5962 420 3843							E	B219 INTEGRATED CIRCUIT: 00530; U6B996079X	EA	1	2				*	*	*	5	2	6-2	2A1A1Z1
P	H		5962-420-3843							E	B220 INTEGRATED CIRCUIT ; SAME AS B219	EA	1	REF									6-2	2A1A1Z2

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL											DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	0		5960-497-9862							E	B221 NIXIE TUBE: 90521; B5750	EA	1	2				*	2	2	19	10	6-2	2A1A1V1
P	0		5960-497-9862							E	B222 NIXIE TUBE: SAME AS B221	EA	1	REF									6-2	2A1A1V2
X1	H									E	B223 PRINT CIRCUIT: 14031; SMC632930	EA	1	1									6-1	2A1A1MP1
A	H	S								C	B224 CHASSIS ASSEMBLY, ELECTRICAL EQUIPMENT: 14031; SMD632937	EA	1	1									6-1	2A2
X2	H									D	B225 BRACKET ASSEMBLY, ALARM: 14031; SMC632940	EA	1	1									6-1	2A2A10
X2	H									*	B226 SCREW, MACHINE: SAME AS B154	EA	1	2									6-1	2A2H2
X2	H									*	B227 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
X2	H		5310-819-9188							E	B228 NUT, SELF-LOCKING, CLINCH: 46384; LKS632-2	EA	1	2									6-1	2A2A1OH2
X2	H									D	B229 BRACKET, ANGLE: 14031; SMC632808	EA	1	1									6-1	2A2A14
X2	H									*	B230 SCREW, MACHINE: SAME AS B154	EA	1	2									6-1	2A2H2
X2	H									*	B231 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
X2	H		5310-819-9188							*	B232 NUT, SELF-LOCKING, CLINCH: SAME AS B228	EA	1	2									6-1	2A2A14H2

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL										DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									D	B233 BRACKET, ANGLE: SAME AS 9229	EA	1	1									6-1	2A2A15
X2	H									*	B234 SCREW, MACHINE: SAME AS B154	EA	1	2									6-1	2A2H2
X2	H									*	B235 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
X2	H									E	B236 BRACKET, ANGLE: SAME AS B229	EA	1	1									6-1	2A2A15MP1
X2	H									*	B237 NUT, SELF-LOCKING: SAME AS B228	EA	1	2									6-1	2A2A15H2
X2	H									D	B238 BRACKET ASSEMBLY: FASTENER: 14031; SMC6 32822	EA	1	1									6-1	2A2A17
X2	H									*	B239 SCREW, MACHINE: 70318; 6-32X1-2PANHDCRES	EA	1	2									6-1	2A2H2
X2	H									*	B240 WASHER, LOCK: SAME AS B147	EA	1	2									6-1	2A2H2
X2	H									*	B241 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
X2	H		5310-866-4638							*	B242 NUT, SELF LOCKING, CLINCH 46384; LKS832-2	EA	1	2									6-1	2A2A17H2
X2	H									D	B243 BRACKET ASSEMBLY, SUPPORT: 14031; SMB632805	EA	1	1									6-1	2A2A11
X2	H									*	B244 SCREW, MACHINE: SAME AS B239	EA	1	2									6-1	2A2H2

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B245 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
X2	H		5310-819-9188							*	B246 NUT SELF-LOCKING CIRCUIT: SAME AS B228	EA	1	3									6-1	2A2A11H3
X2	H									D	B247 BRACKET ASSEMBLY, SUPPORT: SAME AS B243	EA	1	1									6-1	2A2A12
X2	H									*	B248 SCREW, MACHINE: SAME AS B154	EA	1	2									6-1	2A2H2
X2	H									*	B249 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
X2	H									E	B250 BRACKET, SUPPORT: 14031; SMB632805-1	EA	1	1									6-1	2A2A12MP1
X2	H		5310-819-9188							*	B251 NUT, SELF-LOCKING, CLINCH: SAME AS B228	EA	1	3									6-1	2A2A12H3
X2	H									D	B252 BRACKET, FUSE: 14031; SMC632945	EA	1	1									6-1	2A2MP14
X2	H									*	B253 SCREW, MACHINE: SAME AS B239	EA	1	2									6-1	2A2H2
X2	H									*	B254 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
X2	H									D	B255 BRACBT, MOUNT::NG: 80063; SMC632824	EA	1	1									6-1	2A2MP20
X2	H									*	B256 SCREW, MACHINE: 70318; 8-32X5-8P~DCRES	EA	1	4									6-1	2A2H4

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL										DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B257 WASHER, FLAT 70318; 8CRESFL	EA	1	4									6-1	2A2H4
X2	H									D	B258 BRACKET, MOUNTING SAME AS B255	EA	1	1									6-1	2A2MP21
XZ	H									*	B259 SCREW, MACHINE: SAME AS B250	EA	1	4									6-1	2A2H4
X2	H									*	B260 WASHER, FLAT: SAME AS B257	EA	1	4									6-1	2A2H4
P	H		5340-915-4839							D	B261 BUMPER, RUBBER: 83330; 2135	EA	1	1				*	*	2	8	3	6-1	2A2MP26
X2	H									*	B262 SCHEW, MACHINE: SAME AS B239	EA	1	1									6-1	2A2H1
X2	H									*	B263 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B264 BUMPER, RUBBER: SAME AS B261	EA	1	1									6-1	2A2MP27
X2	H									*	B265 SCHEW, MACHINE: SAME AS P239	EA	1	1									6-1	2A2H1
X2	H									*	B 66 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B267 BWPKR, RUBHEH: SAME AS B261	EA	1	1									6-1	2A2MP2
X2	H									*	B268 SCHEW, MACHINE: SAME AS H239	EA	1	1									6-1	2A2H1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL											DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B269 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B270 BUMPER, RUBBER: SAME AS B261	EA	1	1									6-1	2A2MP29
X2	H									*	B271 SCREW, MACHINE: SAME AS B239	EA	1	1									6-1	2A2H1
X2	H									*	B272 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
P	H		5805-133-9024							D	B273 BUZZER: 90201; SC628	EA	1	1				*	*	*	5	2	6-1	2A2DS1
P	H		5910-857-2361							D	B274 CAPACITOR, FIXED, ELECTROLYTIC: 00853; 539-2647-01	EA	1	1				*	*	*	8	3	6-1	2A2C1
X2	H									D	B275 CLAMP, LOOP 96906; MS21919-24	EA	1	1									6-1	2A2MP1
X2	H									*	B276 SCREW, MACHINE: SAME AS B239	EA	1	1									6-1	2A2H1
X2	H									*	B277 WASHER, FLAT: SAME AS B156	EA	1	1									6-1	2A3H1
X2	H									*	B278 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									*	B279 NUT, PLAIN, HEXAGON: SAME AS B148	EA	1	1									6-1	2A2H1
P	H		5935-481-7856							D	B280 CONNECTOR, RECEPTACLES, ELECTRICAL: 02660; 225-22223-101	EA	1	7				2	2	2	33	21	6-1	2A2XA1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL											DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B281 SCREW, MACHINE: 70318; 4-40X3-8PANHDCRES	EA	1	2									6-1	2A2H2
X2	H									*	B282 WASHER, LOCK: SAME AS B205	EA	1	2									6-1	2A2H2
X2	H									*	B283 WASHER, FLAT: SAME AS B211	EA	1	2									6-1	2A2H2
P	H		5935-481-7856							D	B284 CONNECTOR, RECEPTACLE, ELECTRICAL: SAME AS B280	EA	1	REF									6-1	2A2XA2
X2	H									*	B285 SCREW, MACHINE: SAME AS B281	EA	1	2									6-1	2A2H2
XZ	H									*	B286 WASHER, LOOK:SAME AS B205	EA	1	2									6-1	2A2H2
X2	H									*	B287 WASHER, FLAT: SAME AS B211	EA	1	2									6-1	2A2H2
P	H		5935-481-7856							D	B288 CONNECTOR, RECEPTACLE, ELECTRICAL: SAME AS B280	EA	1	REF									6-1	2A2XA3
X2	H									*	B289 SCREW, MACHINE: SAME AS B281	EA	1	2									6-1	2A2H2
X2	H									*	B290 WASHER, LOCK: SAME AS B205	EA	1	2									6-1	2A2H2
X2	H									*	B291 WASHER, FLAT: SAME AS B211	EA	1	2									6-1	2A2H2
P	H		5935-481-7856							D	B292 CONNECTOR, RECEPTACLE, ELECTRICAL: SAME AS B280	EA	1	REF									6-1	2A2XA4

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL										DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B293 SCREW, MACHINE: SAME AS B281	EA	1	2										2A2H2
																							6-1	
X2	H									*	B294 WASXER, LOCK: SAME AS B205	EA	1	2										2A2H2
																							6-1	
X2	H									*	B295 WASHER, FLAT: SAME AS B211	EA	1	2										2A2H2
																							6-1	
P	H		5935-481-7856							D	B296 CONNECTOR, RECEPTACLE, ELECTRICAL: SAME AS B280	EA	1	REF										2A2XA5
																							6-1	
X2	H									*	B297 SCREW, MACHINE: SAME AS B281	EA	1	2										2A2H2
X2	H									*	B298 WASHER, LOCK: SAME AS B205	EA	1	2									6-1	
X2	H									*	B299 WASHER, FLAT: SAME AS B211	EA	1	2										2A2H2
																							6-1	
P	H		5935-481-7856							D	B300 CONNECTOR, RECEPTACLE, ELECTRICAL: SAME AS B280	EA	1	REF										2A2XA6
																							6-1	
X2	H									*	B301 SCREW, MACHINE: SAME AS B281	EA	1	2										2A2H2
																							6-1	
X2	H									*	B302 WASHER, LOCK: SAME AS B205	EA	1	2										2A2H2
																							6-1	
X2	H									*	B303 WASHER, FLAT: SAME AS B2I1	EA	1	2										2A2H2
																							6-1	
P	H		5935-481-7856							D	B304 CONNECTOR, RECEPTACLE, ELECTRICAL: SAME AS B280	EA	1	REF										2A2XA7
																							6-1	

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE							(4)	(5)	(6)	(7)	(8)	(9)		(10)						1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	ILLUSTRATIONS	
																	30 DAY MAINT. ALW.									
																	DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION			UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100			(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B305 SCREW MACHINE: SAME AS B281			EA	1	2									6-1	2A2H2
X2	H									*	B306 WASHER, LOCK: SAME AS B205			EA	1	2									6-1	2A2H2
X2	H									*	B307 WASHER, FLAT: SAME AS B211			EA	1	2									6-1	2A2H2
X2	H									*	B308 SCREW, MACHINE: SAME AS B281			EA	1	14									6-1	2A2H14
X2	H									*	B309 WASHER, LOCK: SAME AS B205			EA	1	14									6-1	2A2H14
X2	H									*	B310 WASHER, FLAT: SAME AS B211			EA	1	14									6-1	2A2H14
X2	H									D	B311 COVER, PROTECTIVE: 14031; SMD632828			EA	1	2									6-1	2A2MP24
X2	H									*	B312 SCREW, MACHINE: 70318 6-32x1-4PANHDCRES			EA	1	4									6-1	2A2H4
X2	H									*	B313 WASHER, LOCK: SAME AS B147			EA	1	4									6-1	2A2H4
X2	H									*	B314 WASHER, FLAT: SAME AS B156			EA	1	4									6-1	2A2H4
X2	H									D	B315 COVER, PROTECTIVE: SAME AS B311			EA	1	1									6-1	2A2MP25
X2	H									*	B316 SCREW, MACHINE: SAME AS B312			EA	1	4									6-1	2A2H4
X2	H									*	B317 WASHER, LOCK: SAME AS B147			EA	1	4									6-1	2A2H4

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B318 WASHER, FLAT: SAME AS B156	EA	1	4									6-1	2A2H4
P	O		5920-280-8344							D	B319 FUSE, CARTRIDGE: 75915 312-500	EA	1	1				4	6	7	352	300	6-1	2A2F4
P	O		5920-295-9602							D	B320 FUSE, CARTRIDGE:75915; 313001	EA	1	2				5	7	8	460	400	6-1	2A2F1
P	O		5920-295-9602							D	B321 FUSE, CARTRIDGE:SAME AS B320	EA	1	REF									6-1	2A2F2
P	O		5920-280-5062							D	B322 FUSE, CARTRIDGE:75915; 312002	EA	1	1				3	4	5	242	200	6-1	2A2f3
P	X		5920-881-6584							D	B323 FUSEHOLDER:81349; FHL17G2	EA	1	2				*	2	2	13	6	6-1	2A2XF1
P	H		5920-881-6584							D	B324 FUSEHOLDER:SAME AS B323	EA	1	REF									6-1	2A2XF2
P	H		5920-013-9863							D	B325 FUSEHOLDER:81349 FHL18G2-1	EA	1	2				*	2	2	13	6	6-1	2A2XF3
P	H		5920-013-9863							D	B326 FUSEHOLDER:SAME AS B325	EA	1	REF									6-1	2A2XF4
X2	H									D	B327 HANDLE, BOW:71279; 1254-1-02	EA	1	1									6-1	2A2MP22
X2	H									*	B328 SCREW, MACHINE: 70318; 8-32X3-8FLHDCBS	EA	1	2									6-1	2A2H2
X2	H									D	B329 HANDLE, BOW: SAME AS B327	EA	1	2										2A2MP23

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B330 SCREW, MACHINE: SAME AS B328	EA	1	2									6-1	2A2H2
X2	H									D	B331 HINGE, BUTT: 14031; SMC632818	EA	1	1									6-1	2A2MP17
X2	H									*	B332 SCREW MACHINE: SAME AS B312	EA	1	3									6-1	2A2H3
X2	H									*	B333 WASHER, LOCK: SAME AS B147	EA	1	3									6-1	2A2H3
X2	H									D	B334 INSULATOR, STANDOFF: 83330; 52-1502	EA	1	1									6-1	2A2MP2
X2	H									*	B335 SCREW, MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1
X2	H									*	B336 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B337 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP3
X2	H									*	B338 SCREW, MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1
X2	H									*	B339 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B340 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP4
X2	H									*	B341 SCREW MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100			(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B342 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B343 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP5
X2	H									*	B344 SCREW, MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1
X2	H									*	B345 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B346 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP6
X2	H									*	B347 SCREW, MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1
X2	H									*	B348 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B349 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP7
X2	H									*	B350 SCREW, MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1
X2	H									*	B351 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B352 INSULATOR, STANDOFF: SAME AS B334	EA	1	1	2								6-1	A2MP8
X2	H									*	B353 SCREW, MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	B354 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B355 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP9
X2	H									*	B356 SCREW MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1
X2	H									*	B357 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B358 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6 1	2A2MP10
X2	H									*	B359 SCREW, MACHINE: SAME AS B312	EA	1	1									6-1	2A2H1
X2	H									*	B360 WASHER, BOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B361 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP11
X2	H									*	B362 SCREW, MACHINE: SAME AS B312	EA.	1	1									6-1	2A2H1
X2	H									*	B363 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
X2	H									D	B364 INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A2MP12
X2	H									*	B365 SCREW MACHINE: SAME AS B312	EA	1										6-1	2A2H1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	X2	H								*	B366 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
	X2	H								D	B367 LATCH, DOOR: 14031; SMB632819-1	EA	1	1									6-1	2A2MP18
	X2	H								*	B368 SCREW, MACHINE: 70318; 6-32x5-16-TRUSSHDCRES	EA	1	1									6-1	2A2H1
	X2	H								*	B369 SCREW, MACHINE: 70318, 6-32X3-8FLHDCRES	EA	1	1									6-1	2A2H1
	X2	H								*	B370 WASHER, FLAT: SAME AS B156	EA	1	1									6-1	2A2H1
	X2	H								*	B371 WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A2H1
	X2	H	5310-050-0458							*	B372 NUT, SLEEVE: SAME AS B149	EA	1	1									6-1	2A2H1
	X1	H								D	B373 PAN ASSEMBLY, BOTTOM: 14031; SMD632939	EA	1	1									6-1	2A2A9
	X2	H	5310-980-6155							*	B374 NUT, PLAIN, CLINCH: 46384; SOS632-6	EA	1	4									6-1	2A2A9H4
	X2	H	5310-819-9188							*	B375 NUT, SELF-LOCKING, CLINCH: 46384; SAME AS B228	EA	1	17									6-1	2A2A9H17
	X2	H	5310-809-8135							*	B376 NUT, PLAIN, CLINCH: 46384, F632-2	EA	1	1									6-1	2A2A9H1
	X1	H								D	B377 PAN ASSEMBLY, TOP: 14031; SMD632942	EA	1	1									6-1	2A2A13

REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1) SOURCE CD	(2) MAINT CD	(3) ALW PER REC CODE	(4) FEDERAL STOCK NUMBER	(5) 30 DAY MAINT. ALW. MODEL 1 2 3 4 5 6 IND	DESCRIPTION OF CD	(6) 1 YR UNIT ISSUE	(7) DEPOT UNIT UN	(8) ILLUSTRATIONS IN IN PK	(9) (10) INC (A) UNIT	DS (B) 1-20	GS (C) 21-50	100 (A) 51-100	ALW. (B) 1-20	(A) (C) 21-50	(B) EQUIP. 51-100	PER 100 CNTGCY	FIGURE EQUIP	ITEM OR NUMBER NUMBER
X2	H		5310-819-91	*	B378 NUT, SELF-LOCKING, CLINCH SAME AS B228	EA	1	15									6-1	2A2A13H15
X2	H			*	B379 NUT, PLAIN, CLINCH: SAME	EA	1	4									6-1	2A2A13H4
X1	H			D	B380 PANEL ASSEMBLY, LEFT SIDE 14031, SMD632817	EA	1	1									6-1	2A2A15
X2	H			*	B381 SCREW, MACHINE- SAME AS B239	EA	1	5									6-1	2A2H10
X2	H			*	B382 WASHER, FLAT- SAME AS B156	EA	1	5									6-1	2A2H10
X2	H			*	B383 NUT, PLAIN, CLINCH- SAME	EA	1	3									6-1	2A2A15H3
X2	H			*	B384 NUT, SELF-LOCKING, CLINCH:	EA	1	4									6-1	2A2A16H4
X1	H			D	B385 PANEL ASSEMBLY, RIGHT SIDE- 14031, SMD632821	EA	1	1									6-1	2A2A16
X2	H			*	B386 SCREW, MACHINE: SAME AS B239	EA	1	5									6-1	2A2H5
X2	H			*	B387 WASHER, FLAT: SAME AS B156	EA	1	5									6-1	2A2H5
X2	H			*	B388 NUT, PLAIN, CLINCH SAME AS B374	EA	1	2									6-1	2A2A16H2
X2	H			*	B389 NUT, SELF-LOCKING, CLINCH SAME AS B242	EA	1	4									6-1	2A2A16H4
X1	H			D	B390 PIN, CENTERING: 14031,	EA	1	1									6-1	2A2MP19

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	DS (A) 1-20	GS (B) 21-50	100 (C) 51-100	ALW. (A) 1-20	(A) (B) 21-50	(B) (C) 51-100	1 YR EQUIP. CNTGCY	DEPOT ALW PER 100 EQUIP	MAINT FIGURE NUMBER	ITEM OR NUMBER
X2	H									*	B391 NUT, PLAIN, HEXAGON: 70318; 8-32 CRES	EA	1	1									6-1	2A2H1
X2	H									*	B392 WASHER, LOCK: 70318; 8 CRESLK	EA	1	1									6-1	2A2H1
P	H		5905-402-9059							D	B393 RESISTOR, FIXED: 56289, 247E7515	EA	1	1					5	2			6-1	2A2R2
P	H		5905-279-1979							D	B394 RESISTOR, FIXED, COMPOSITION: 81349; RC42GF101J	EA	1	1					5	2			6-1	2A2R1
P	H		5905-185-6580							D	B395 RESISTOR, FIXED, COMPOSITION: 81349; RC42GF471J	EA	1	1					5	2			6-1	2A2R3
P	H		5905-195-6791							D	B396 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF681J	EA	1	1					13	6			6-1	2A2R4
X2	H									D	B397 RETAINER, CARD: 14031; SMC632811	EA	1	1									6-1	2A2MP13
X2	H									*	B398 SCREW, Machine: SAME AS B154	EA	1	2									6-1	2A2H2
X2	H									*	B399 WASHER, FLAT: SAME AS B156	EA	1	2									6-1	2A2H2
P	H		5961-556-2091							D	B400 SEMICONDUCTOR DEVICE, DIODE: 93332; 1N270	EA	1	2					46	28			6-1	2A2CR1
P	H		5961-556-2091							D	B401 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-1	2A2CR2
P	H	T	6625-441-9300							D	B402 COMPONENT BOARD. 14031, SMD633063	EA	1	1				2	2	2	112	3	6-3	2A2A1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5910-925-6200							E	B403 CAPACITOR, FIXED, CERAMIC DIELECTRIC: 56289, HY310	EA	1	3								18	6-3	2A2A1C3
P	D		5910-925-6200							E	B404 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B403	EA	1	REF									6-3	2A2A1C4
P	D		5910-925-6200							E	B405 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B403	EA	1	REF									6-3	2A2A1C5
P	D		5910-991-1780							E	B406 CAPACITOR, FIXED, CERAMIC DIELECTRIC: 56289; HY130	EA	1	1								15	6-3	2A2A1C9
P	D		5910-963-8069							E	B407 CAPACITOR, FIXED, CERAMIC DIELECTRIC: 56289, CK502	EA	1	1								15	6-3	2A2A1C12
P	D		5910-925-6508							E	B408 CAPACITOR, FIXED, ELECTROLYTIC: 74861, IB1307RMV	EA	1	1								3	6-3	2A2A1C1
P	D		5910-481-8591							E	B409 CAPACITOR, FIXED, ELECTROLYTIC: 74861; IB1057RMV	EA	1	1								3	6-3	2A2A1C6
P	D		5910- 786-2208							E	B410 CAPACITOR, FIXED, ELECTROLYTIC: 56289, TE1207	EA	1	1								3	6-3	2A2A1C7
P	D		5910-477-9305							E	B411 CAPACITOR, FIXED, ELECTROLYTIC: 56289, 39D206F350FL4	EA	1	1								3	6-3	2A2A1C8
P	D		5910-810-4849							E	B412 CAPACITOR, FIXED, ELECTROLYTIC: 56289; TGS10	EA	1	1	2							5	6-3	2A2A1C10
P	D		5910-827-1209							E	B413 CAPACITOR, FIXED ELECTROLYTIC: 56289, TE1211	EA	1	1								6	6-3	2A2A1C11
P	D		5910-827-1218							E	B414 CAPACITOR, FIXED, ELECTROLYTIC: 56289; TE1204	EA	1	1	1							2	° 6-3	2A2A1C13

REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (1)			(2)	MODEL						(4)	(5)	(6)	(7)	(8)	(9) 30 DAY MAINT. ALW.						1 YR ALW PER	DEPOT	ILLUSTRATIONS	
															DS			GS			(10)			
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5910-965-9441							E	B415 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM06D102J03	EA	1	1								21	6-3	2A2A1C2
X2	D		5961-879-4069							E	B416 HEAT SINK: 13103; 2215B	EA	1	1									6-3	2A2A1MP3
X2	D									*	B417 SCREW, MACHINE: 70318; 2-56X1PANHDCRES	EA	1	2									6-3	2A2A1H2
X2	D									*	B418 WASHER, FLAT: 70318; 2CREGFL	EA	1	2									6-3	2A2A1H2
P	D									E	B419 INTERGRATED CIRCUIT: 00530; U6A995879X	EA	1	6								8	6-3	2A2A1Z1
P	D									E	B420 INTERGRATED CIRCUIT: SAME AS B419	EA	1	REF									6-3	2A2A1Z2
P	D									E	B421 INTERGRATED CIRCUIT: SAME AS B419	EA	1	REF									6-3	2A2A1Z3
P	D									E	B422 INTERGRATED CIRCUIT: SAME AS B419	EA	1	REF									6-3	2A2A1Z4
P	D									E	B423 INTERGRATED CIRCUIT: SAME AS B419	EA	1	REF									6-3	2A2A1Z5
P	D									E	B424 INTERGRATED CIRCUIT: SAME AS B419	EA	1	REF									6-3	2A2A1Z6
P	D		5962-105-4624							E	B425 INTERGRATED CIRCUIT: 25677; U6A909359X	EA	1	1								31	6-3	2A2A1Z7
P	D		5961-059-1137							E	B426 PAD, TRANSISTOR: 13103 7717-44	EA	1	1								2	6-3	2A2A1MP4

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-944-3628							E	B427 PAD, TRANSISTOR: 13103, 7717-5N	EA	1	12								25		2A2A1MP5
P	D		5961-944-3628							E	B428 PAD, TRANSISTOR. SAME AS B427	EA	1	REF									6-3	2A2A1MP6
P	D		5961-944-3628							E	B429 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-3	2A2A1MP7
P	D		5961-944-3628							E	B430 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-3	2A2A1MP8
P	D		5961-944-3628							E	B431 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-3	2A2A1MP9
P	D		5961-944-3628								EB432 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-3	2A2A1MP10
P	D		5961-944-3628							E	B433 PAD, TRANSISTOR SAME AS B427	EA	1	REF									6-3	2A2A1MP11
P	D		5961-944-3628							E	B434 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-3	2A2A1MP12
P	D		5961-944-3628							E	B435 PAD, TRANSISTOR. SAME AS B427	EA	1	REF									6-3	2A2A1MP13
P	D		5961-944-3628							E	B436 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-3	2A2A1MP14
P	D		5961-944-3628							E	B437 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-3	2A2A1MP15
P	D		5961-944-3628							E	B438 PAD, TRANSISTOR. SAME AS B427	EA	1	REF									6-3	2A2A1MP16

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)					DS			GS			1 YR	DEPOT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION		UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	ALW PER 100 EQUIP. CNTGCY	MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-944-3628							E	B439 PAD, TRANSISTOR: SAME AS B427		EA	1	REF									6-3	2A2A1MP17
X1	D									E	B440 PRINTED CIRCUIT: 14031, SMD632946		EA	1	1									6-3	2A2A1MP1
P	D		5905-190-8883							E	B441 RESISTOR, FIXED, COMPOSITION-81349; RC20GF100J		EA	1	1								2	6-3	2A2A1R1
P	D		5905-195-6806							E	B442 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF102J		EA	1	17								96	6-3	2A2A1R2
P	D		5905-195-6806							E	B443 RESISTOR, FIXED, COMPOSITION: 5AME AS B442		EA	1	REF									6-3	2A2A1R4
P	D		5905-195-6806							E	B444 RESISTOR, FIXED, COMPOSITION: SAME AS B442		EA	1	REF									6-3	2A2A1R5
P	D		5905-195-6806							E	B445 RESISTOR, FIXED, COMPOSITION-5AME 4S B442		EA	1	REF									6-3	2A2A1R6
P	D		5905-195-6806							E	B446 RESISTOR, FIXED, COMPOSITIQN: SAME AS B442		EA	1	REF									6-3	2A2A1R11
P	D		5905-195-6806							E	B447 RESISTOR, FIXED, COMPOSITION: SAME A5 B442		EA	1	REF									6-3	2A2A1R13
P	D		5905-195-6806							E	B448 RESISTOR, FIXED, COMPOSITION: SAME AS B442		EA	1	REF									6-3	2A2A1R17
P	D		5905-195-6806							E	B449 RESISTOR, FIXED, COMPOSITION: SAME AS B442		EA	1	REF									6-3	2A2A1R20
P	D		5905-195-6806							E	B450 RESISTOR, FIXED, COMPOSITION-SAME AS B442		EA	1	REF									6-3	2A2A1R30
P	D		5905-195-6806							E	B451 RESISTOR, FIXED, COMPOSITION-SAME AS B442		EA	1	REF									6-3	2A2A1R33

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100			(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-195-6806							E	B452 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-3	2A2A1R35
P	D		5905-195-6806							E	B453 RESISTOR, FIXED, COMPOSITION:EA SAME AS B442	1	REF										6-3	2A2A1R36
P	D		5905-195-6806								EB454 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-3	2A2A1R39
P	D		5905-195-6806							E	B455 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-3	2A2A1R40
P	D		5905-195-6806							E	B456 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-3	2A2A1R49
P	D		5905-195-6806							E	B457 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-3	2A2A1R52
P	D		5905-195-6806							E	B458 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-3	2A2A1R53
P	D		5905-185-8510							E	B459 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF103J	EA	1	4								68	6-3	2A2A1R3
P	D		5905-185-8510							E	B460 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF	2								6-3	A2A1R15
P	D		5905-185-8510							E	B461 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-3	2A2A1R18
P	D		5905-185-8510							E	B462 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-3	2A2A1R21
P	D		5905-993-7406							E	B463 RESISTOR, VARIABLE: 80294; 3067P1-103	EA	1	2								14	6-3	2A2A1R7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-993-7406							E	B464 RESISTOR, VARIABLE: SAME AS B463	EA	1	REF									6-3	2A2A1R19
P	D		5905-114-5388							E	B465 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF220J	EA	1	1								10	6-3	2A2A1R8
P	D		5905-252-4018							E	B466 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF470J	EA	1	7								22	6-3	2A2A1R9
P	D		5905-252-4018							E	B467 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF									6-3	2A2A1R43
P	D		5905-279-3504							E	B403 RESISTOR, FIXED, COMPOSITION: 81349-, RC20GF472J	EA	1	19									6-3	2A2A1R44
P	D		5905-252-4018							E	B469 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF									6-3	2A2A1R45
P	D		5905-252-4018							E	B470 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF									6-3	2A2A1R46
P	D		5905-252-4018							E	B471 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF									6-3	2A2A1R47
P	D		5905-252-4018							E	B472 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF									6-3	2A2A1R48
P	D		5905-190-8889							E	B473 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF1O1J	EA	1	2								16	6-3	2A2A1R10
P	D		5905-190-8889							E	B474 RESISTOR, FIXED, COMPOSITION: SAME AS B473	EA	1	REF									6-3	2A2A1R12
P	D		5905-279-3513							E	B475 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF221J	EA	1	2								4	6-3	2A2A1R14

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-279-3513							E	B476 RESISTOR, FIXED, COMPOSITION- SAME AS B475	EA	1	REF									6-3	2A2A1R22
P	D		5905-795-676							E	B477 RESISTOR, FIXED, COMPOSITION. 81349; RC20GF104J	EA	1	2								8	6-3	2A2AIR16
P	D		5905-795-6761							E	B478 RESISTOR, FIXED, COMPOSITION. SAME AS B477	EA	1	REF									6-3	2A2A1R25
P	D		5905-195-6791							E	B479 RESISTOR, FIXED, COMPOSITION. SAME AS B396	EA	1	2									6-3	2A2A1R23
P	D		5905-195-6791							E	B480 RESISTOR, FIXED, COMPOSITION: SAME AS B396	EA	1	REF									6-3	2A2A1R42
P	D		5905-192-3971							E	B481 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF331J	EA	1	2								4	6-3	2A2A1R24
P	D		5905-192-3971							E	B482 RESISTOR, FIXED, COMPOSITION: SAME AS B481	EA	1	REF									6-3	2A2A1R38
P	D		5905-171-2004							E	B483 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF223J	EA	1	2								10	6-3	2A2A1R26
P	D		5905-171-2004							E	B484 RESISTOR, FIXED,COMPOSITION SAME AS B483	EA	1	REF									6-3	2A2A1R27
P	D		5905-279-3504							E	B485 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	2								36	6-3	2A2A1R28
P	D		5905-252-4018							E	B486 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF									6-3	2A2A1R54
P	D		5905-249-3661							E	B487 RESISTOR, FIXED, COMPOSITION. 81349, RC20GF683J	EA	1	2								12	6-3	2A2A1R29
P	D		5905-249-3661							E	B488 RESISTOR, FIXED, COMPOSITION: SAME AS B487	EA	1	REF									6-3	2A2AIR31

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-279-3506							E	B489 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF332J	EA	1	1								12	6-3	2A2A1R32
P	D		5905-195-6453							E	B490 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF562J	EA	1	2								26	6-3	2A2A1R34
P	D		5905-195-6453							E	B491 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	REF									6-3	2A2A1R37
P	D		5905-195-5571							E	B492 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF680J	EA	1	1								6	6-3	2A2A1R41
P	D		5905-254-9201							E	B493 RESISTOR, FIXED, COMPOSITION- 81349; RC20GF473J	EA	1	1								10	6-3	2A2AIR50
P	D		5905-279-1876							E	B494 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF222J	EA	1	1								10	6-3	2A2A1R51
P	D		5961-765-4612							E	B495 SEMICONDUCTOR DEVICE, DIODE 01295; 1N645	EA	1	6								16	6-3	2A2A1CR1
P	D		5961-765-4612							E	B496 SEMICONDUCTOR DEVICE, DIODE: SAME AS B495	EA	1	REF									6-3	2A2A1CR2
P	D		5961-765-4612							E	B497 SEMICONDUCTOR DEVICE, DIODE: SAME AS B495	EA	1	REF									6-3	2A2A1CR5
P	D		5961-765-4612							E	B498 SEMICONDUCTOR DEVICE, DIODE: SAME AS B495	EA	1	REF									6-3	2A2A1CR6
P	D		5961-765-4612							E	B499 SEMICONDUCTOR DEVICE, DIODE: SAME AS B495	EA	1	REF									6-3	2A2A1CR7
P	D		5961-765-4612							E	B500 SEMICONDUCTOR DEVICE, DIODE: SAME AS B495	EA	1	REF									6-3	2A2A1CR14

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL										DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-853-0974							E	B501 SEMICONDUCTOR DEVICE, DIODE. 01295; 1N746	EA	1	2								4	6-3	2A2A1CR3
P	D		5961-853-0975							E	B502 SEMICONDUCTOR DEVICE, DIODE. SAME AS B501	EA	1	REF									6-3	2A2A1CR4
P	D		5961-370-1651							E	B503 SEMICONDUCTOR DEVICE, DIODE: 04713; IN965B	EA	1	2								4	6-3	2A2A1CR8
P	D		5961-370-1651							E	B504 SEMICONDUCTOR DEVICE, DIODE: SAME AS B503	EA	1	REF									6-3	2A2A1CR15
P	D		5961-719-4355							E	B505 SEMICONDUCTOR DEVICE, DIODE- 01295, 1N753A	EA	1	1								2	6-3	2A2A1CR9
P	D		5961-400-5375							E	B506 SEMICONDUCTOR DEVICE, DIODE: 33173, IN914	EA	1	3								58	6-3	2A2A1CR10
P	D		5961-400-5375							E	B507 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-3	2A2A1CR12
P	D		5961-400-5375							E	B508 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-3	2A2A1CR13
P	D		5961-892-3492							E	B509 SEMICONDUCTOR DEVICE, DIODE: 33173; IN560	EA	1	1								2	6-3	2A2A1CR11
P	D		5961-938-1084							E	B510 SEMICONDUCTOR DEVICE, DIODE: 08804, C6F	EA	1	1								2	6-3	2A2A1SCR1
X2	D									E	B511 STIFFENER, BAR: 14031, SMC632832	EA	1	1									6-3	2A2A1MP2
X2	D									*	B512 SCREW, MACHINE: 70318, 4-40X1-2FILHDCRES	EA	1	3									6-3	2A2A1H3
X2	D									*	B513 WASHER, LOCK. SAME AS B205	EA	1	3									6-3	2A2A1H3

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	D									*	B514 NUT, PLAIN, HEXAGON: SAME AS B206	EA	1	3									6-3	2A2A1H3
P	D		5961-892-3405							E	B515 TRANSISTOR: 01295; 2N1306	EA	1	6								120	6-3	2A2A1Q1
P	D		5961-892-3405							E	B516 TRANSISTOR: SAME AS B515	EA	1	REF									6-3	2A2A1Q8
P	D		5961-892-3405							E	B517 TRANSISTOR: SAME AS B515	EA	1	REF									6-3	2A2A1Q9
P	D		5961-892-3405							E	B518 TRANSISTOR: SAME AS B515	EA	1	REF									6-3	2A2A1Q10
P	D		5961-892-3405							E	B519 TRANSISTOR: SAME AS B515	EA	1	REF									6-3	2A2A1Q12
P	D		5961-892-3405							E	B520 TRANSISTOR: SAME AS B515	EA	1	REF									6-3	2A2A1Q13
P	D		5361-064-4291							E	B521 TRANSISTOR: 01295; 2N697	EA	1	2								12	6-3	2A2A1Q2
P	D		5961-064-4291							E	B522 TRANSISTOR: SAME AS B521	EA	1	REF									6-3	2A2A1Q5
P	D		5961-985-9134							E	B523 TRANSISTOR: 33173; 2N404	EA	1	4								32	6-3	2A2A1Q3
P	D		5961-985-9134							E	B524 TRANSISTOR: SAME AS B523	EA	1	REF									6-3	2A2A1Q4
P	D		5961-985-9134							E	B525 TRANSISTOR: SAME AS B523	EA	1	REF									6-3	2A2A1Q6

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-985-9134							E	B526 TRANSISTOR: SAME AS B523	EA	1	REF									6-3	2A2A1Q11
P	D		5961-842-6937							E	B527 TRANSISTOR. 81349; 2N706	EA	1	1							16	8	6-3	2A2A1Q7
P	H	T	6625-449-7736							D	B528 COMPONENT BOARD ASSEMBLY-14031; SMD633064	EA	1	1				2	2	2	1	3	6-4	2A2A2
P	D		5910-925-6200							E	B529 CAPACITOR, FIXED, CERAMIC, DIELECTRIC: SAME AS B403	EA	1	1									6-4	2A2A2C5
P	D		5910-810-4849							E	B530 CAPACITOR, FIXED, ELECTROLYTIC: SAME AS B412	EA	1	2									6-4	2A2A2C1
P	D		5910-810-4849							E	B531 CAPACITOR, FIXED, ELECTROLYTIC: SAME AS B412	EA	1	REF									6-4	2A2A2C7
P	D		5910-827-1209							E	B532 CAPACITOR, FIXED, ELECTROLYTIC: SAME AS B413	EA	1	1									6-4	2A2A2C3
P	D		5910-827-1218							E	B533 CAPACITOR, FIXED, ELECTR0LYTIC: SAME AS B414	EA	1	REF									6-4	2A2A2C4
P	D		5910-827-1218							E	B534 CAPACITOR, FIXED, ELECTROLYTIC. SAME AS B414	EA	1	2									6-4	2A2A2C6
P	D		5910-717-0167							E	B535 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM05D471J03	EA	1	4							52	36	6-4	2A2A2C8
P	D		5910-717-0167							E	B536 CAPACITOR, FIXED, DD:CA DIELECTRIC: SAME AS B535	EA	1	REF									6-4	2A2A2C9
P	D		5910-717-0167							E	B537 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	REF									6-4	2A2A2C10
P	D		5910-717-0167							E	B538 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	REF									6-4	2A2A2C11

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5910-965-9441							E	B539 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B415	EA	1	1									6-4	2A2A2C12
P	D		5910-901-9870							E	B540 CAPACITOR, FIXED, PAPER DIELECTRIC: 90201; PVC101	EA	1	1								3	6-4	2A2AC2
P	D		5962-789-3415							E	B541 INTERGRATED CIRCUIT. 25677, U6A994659X	EA	1	5								40	6-4	2A2A2Z1
P	D		5962-789-3415							E	B542 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-4	2A2A2Z5
P	D		5962-789-3415							E	B543 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-4	2A2A2Z16
P	D		5962-789-3415							E	B544 INTERGRATED CIRCUIT. SAME AS B541	EA	1	REF									6-4	2A2A2Z20
P		D	5962-789-3415							E	B545 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-4	2A2A2Z21
P		D	5962-105-4624							E	B546 INTERGRATED CIRCUIT: SAME AS B425	EA	1	10									6-4	2A2A2Z2
P		D	5962-105-4624							E	B547 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-4	2A2A2Z3
P		D	5962-105-4624							E	B548 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-4	2A2A2Z4
P		D	5962-105-4624							E	B549 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-4	2A2A2Z6
P		D	5962-105-4624							E	B550 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-4	2A2A2Z7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5962-105-4624							E	B551 INTERGRATED CIRCUIT SAME AS B425	EA	1	REF									6-4	2A2A2Z8
P	D		5962-105-4624							E	B552 INTERGRATED CIRCUIT. SAME AS B425	EA	1	REF									6-4	2A2A2Z12
P	D		5962-105-4624							E	B553 INTERGRATED CIRCUIT SAME AS B425	EA	1	REF									6-4	2A2A2Z13
P	D		5962-105-4624							E	B554 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-4	2A2A2Z14
P	D		5962-105-4624							E	B555 INTERGRATED CIRCUIT. SAME AS B425	EA	1	REF									6-4	2A2A2Z19
P	D		5962-344-4379							E	B556 INTERGRATED CIRCUIT: 25677; U6A993659X	EA	1	2								14	6-4	2A2A2Z11
P	D		5962-344-4379							E	B557 INTERGRATED CIRCUIT: SAME AS B556	EA	1	REF									6-4	2A2A2Z18
P	D		5961-944-3628							E	B558 PAD, TRANSISTOR: SAME AS B427	EA	1	11									6-4	2A2A2MP3
P	D		5961-944-3628							E	B559 PAD, TRANSISTOR- SAME AS B427	EA	1	REF									6-4	2A2A2MP4
P	D		5961-944-3628							E	B560 PAD, TRANSISTOR SAME AS B427	EA	1	REF									6-4	2A2A2MP5
P	D		5961-944-3628							E	B561 PAD, TRANSISTOR- SAME AS B427	EA	1	REF									6-4	2A2A2MP6
P	D		5961-944-3628							E	B562 PAD, TRANSISTOR- SAME AS B427 6-4	EA	1	REF									6-4	2A2A2MP7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-944-3628							E	B563 PA4D, TRANSISTOR: SAME AS B427		EA	1	REF									6-4
2A2A2MP8																								
P	D		5961-944-3628							E	B564 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-4	2A2A2MP9
P	D		5961-944-3628							E	B565 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-4	2A2A2MP1O
P	D		5961-944-3628							E	B566 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-4	2A2A2MP11
P	D		5961-944-3628							E	B567 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-4	2A2A2MPl2
P	D		5961-944-3628							E	B568 PA4D, TRANSISTOR: SAME AS B427	EA	1	REF									6-4	2A2A2MP13
X1	D									E	B569 PRINTED CIRCUIT BOARD: 14031; SND632949	EA	1	1									6-4	2A2A2MP1
P	D		5905-185-8510							E	B570 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	12									6-4	2A2A2R1
P	D		5905-185-8510							E	B571 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R2
P	D		5905-185-8510							E	B572 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R9
P	D		5905-185-8510							E	B573 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R10
P	D		5905-185-8510							E	B574 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R11
P	D		5905-185-8510							E	B575 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R15

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-185-8510							E	B576 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R18
P	D		5905-185-8510							E	B577 RESISTOR, FIXED, CONPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R29
P	D		5905-185-8510							E	B578 RESISTOR, FIXED, CQMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R30
P	D		5905-185-8510							E	B579 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R31
P	D		5905-185-8510							E	B580 RESISTOR, FIXED, CQMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R32
P	D		5905-185-8510							E	B581 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A2R33
P	D		5905-279-1876							E	B582 RESISTOR, FIXED, COMPOSITION: SAME AS B494	EA	1	3									6-4	2A2A2R3
P	D		5905-279-1876							E	B583 RESISTOR, FIXED, COMPOSITION: SAME AS B494	EA	1	REF									6-4	2A2A2R7
P	D		5905-279-1876							E	B584 RESISTOR, FIXED, COMPOSITION: SAME AS B494	EA	1	REF									6-4	2A2A2R14
P	D		5905-190-8889							E	B585 RESISTOR, FIXED, COMPOSITION. SAME AS B473	EA	1	1									6-4	2A2A2R4
P	D		5905-254-9201							E	B586 RESISTOR, FIXED, COMPOSITION: SAME AS B493	EA	1	1									6-4	2A2A2R5
P	D		5905-171-2004							E	B587 RESISTOR, FIXED, CQMPOSITION: SAME AS B483	EA	1	2									6-4	2A2A2R6

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-171-2004							E	B588 RESISTOR, FIXED, COMPOSITION: SAME AS B483	EA	1	REF									6-4	2A2A2R16
P	D		5905-195-6806							E	B589 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	7									6-4	2A2A2R8
P	D		5905-195-6806							E	B590 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-4	2A2A2R13
P	D		5905-195-6806							E	B591 BSISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-4	2A2A2R17
P	D		5905-195-6806							E	B592 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-4	2A2A2R34
P	D		5905-195-6806							E	B593 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-4	2A2A2R35
P	D		5905-195-6806							E	B594 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-4	2A2A2R37
P	D		5905-195-6806							E	B595 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-4	2A2A2R39
P	D		5905-279-3504							E	B596 RESISTOR, FIXED, COMPOSITION: SAME AS B485	EA	1	6									6-4	2A2A2R12
P	D		5905-279-3504							E	B597 RESISTOR, FIXED, COMPOSITION: SAME AS B485	EA	1	REF									6-4	2A2A2R20
P	D		5905-279-3504							E	B598 RESISTOR, FIXED, COMPOSITION: SAME AS B485	EA	1	REF									6-4	2A2A2R21
P	D		5905-279-3504							E	B599 RESISTOR, FIXED, COMPOSITION: SAME AS B485	EA	1	REF									6-4	2A2A2R23
P	D		5905-185-8510							E	B599A RESISTOR, F1XED, COMPOSITION: SAME AS B459	EA	1	REF									6-4	2A2A3R40

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-279-3504							E	B600 REISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF									6-4	2A2A2R24
P	D		5905-279-3504							E	B601 RSISTOR, FIXED, COMPOSITION. SAME AS B468	EA	1	REF									6-4	2A2A2R28
P	D		5905-279-3502							E	B602 RSISTOR, FIXED, COMPOSITION: 81349; RC20GF123J	EA	1	1								2	6-4	2A2A2R22
P	D		5905-195-5571							E	B603 RESISTOR, FIXED, COMPOSITION: SAME AS B492	EA	1	2									6-4	2A2A2R25
P	D		5905-195-6453							E	B604 RESISTOR, FIXED, COMPOSITION: SAME AS B492	EA	1	REF									6-4	2A2A2R26
P	D		5905-195-6453							E	B605 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	2									6-4	2A2A2R36
P	D		5961-400-5375							E	B606 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	REF									6-4	2A2A2R38
P	D		5961-400-5375							E	B607 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	13									6-4	2A2A2CR1
P	D		5961-400-5375							E	B608 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR4
P	D		5961-400-5375							E	B609 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR5
P	D		5961-400-5375							E	B610 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR6
P	D		5961-400-5375							E	B611 SEMICONDUCTOR DEVICE, DIODE SAME AS B506	EA	1	REF									6-4	2A2A2CR7
P	D	5	961-400-5375							E	B612 SEMICONDUCTOR DEVICE, DIODE. SAME AS B506	EA	1	REF									6-4	2A2A2CR8

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL										DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-400-5375							E	B613 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR9
P	D		5961-400-5375							E	B614 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR1O
P	D		5961-400-5375							E	B615 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR11
P	D		5961-400-5375							E	B616 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR12
P	D		5961-400-5375							E	B617 SEMICONDUCTOR DEVICE, DIODE: SAME AS 8506	EA	1	REF									6-4	2A2A2CR13
P	D		5961-400-5375							E	B618 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR14
P	D		5961-400-5375							E	B619 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR15
P	D		5961-400-5375							E	B620 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-4	2A2A2CR16
P	D		5961-556-2091							E	B621 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	3									6-4	2A2A2CR17
P	D		5961-556-2091							E	B622 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-4	2A2A2CR18
P	D		5961-556-2091							E	B622A Semiconductor DEVTCE, DIODE SAME AS B400	EA	1	REF									6-4	2A2A2CR19
X2	D									E	B623 STIFFENER, BAR: SAME AS B-511	EA	1	1									6-4	2A2A2MP2
X2	D									*	B624 SCREW, MACHINE: SAME AS	EA	1	3									6-4	2A2A2H3

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	D									*	B625 WASHER, LOCK: SAME AS B205	EA	1	3									6-4	2A2A2H3
X2	D									*	B626 NUT, PLAIN, HEXAGON: SAME AS B206	EA	1	3									6-4	2A2A2H3
P	D		5961-892-3405							E	B627 TRANSISTOR. SAME AS B5 15	EA	1	8									6-4	2A2A2Q1
P	D		5961-892-3405							E	B628 TRANSISTOR- SAME AS B515	EA	1	REF									6-4	2A2A2Q2
P	D		5961-892-3405							E	B629 TRANSISTOR: SAME AS B515	EA	1	REF									6-4	2A2A2Q3
P	D		5961-892-3405							E	B630 TRANSISTOR: SAME AS B515	EA	1	REF									6-4	2A2A2Q4
P	D		5961-892-3405							E	B631 TRANSISTOR: SAME AS B515	EA	1	REF									6-4	2A2A2Q5
P	D		5961-892-3405							E	B632 TRANSISTOR: SAME AS B515	EA	1	REF									6-4	2A2A2Q7
P	D		5961-892-3405							E	B633 TRANSISTOR. SAME AS B515	EA	1	REF									6-4	2A2A2Q1O
P	D		5961-892-3405							E	B634 TRANSISTOR: SAME AS B515	EA	1	REF									6-4	2A2A2Q11
P	D		5961-985-9134							E	B635 TRANSISTOR: SAME AS B523	EA	1	3									6-4	2A2A2Q6
P	D		5961-985-9134							E	B636 TRANSISTOR. SAME AS B523	EA	1	REF									6-4	2A2A2Q8

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL											DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-985-9134							E	B637 TRANSISTOR: SAME AS B523	EA	1	REF									6-4	2A2A2Q9
P	H	T	6625-441_9299							D	B638 COMPONENT BOARD ASSEMBLY: 14031; SMD633065	EA	1	1				2	2	2	101	3	6-5	2A2A3
P	D		5910-827-1218							E	B639 CAPACITOR, FIXED, ELECTROLYTIC: SAME AS B414	EA	1	1									6-5	2A2A3C16
P	D		5910-247-2075							E	B640 CAPACITOR, FIXED, ELECTRO-LYTIC: 56289, TE1209	EA	1	1								3	6-5	2A2A3C17
P	D		5910-965-9441							E	B641 CAPACITOR, FIXED, MICA DIELECTRIC- SAME AS B415	EA	1	1									6-5	2A2A3C1
P	D		5910-717-0167							E	B642 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	4									6-5	2A2A3C2
P	D		5910-717-0167							E	B643 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	REF									6-5	2A2A3C9
P	D		5910-717-0167							E	B644 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	REF									6-5	2A2A3C14
P	D		5910-717-0167							E	B646 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	REF									6-5	2A2A3C18
P	D		5910-954-5504							E	B647 CAPACITOR, FIXED, MICA DIELEC-TRIC: & 349; CM05D121J03	EA	1	1								3	6-5	2A2A3C3
P	D		5910-954-5500							E	B648 CAPACITOR, FIXED, MICA DIELEC-TRIC: 81349; CM05D151J03	EA	1	7								42	6-5	2A2A3C4

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5910-954-5500							E	B649 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF										2A2A3C5
P	D		5910-954-5500							E	B650 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-5	2A2A3C6
P	D		5910-954-5500							E	B651 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-5	2A2A3C7
P	D		5910-954-5500							E	B652 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-5	2A2A3C8
P	D		5910-954-5500							E	B653 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-5	2A2A3C10
P	D		5910-954-5500							E	B654 CAPACITOR, FIXED, MICA DIELECTRIC SAME AS B648	EA	1	REF									6-5	2A2A3C11
P	D		5962-789-3415							E	B655 INTERGRATED CIRCUIT: SAME	EA	1	9									6-5	2A2A3Z1
P	D		5962-789-3415							E	B656 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-5	2A2A3Z6
P	D		5962-789-3415							E	B657 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-5	2A2A3Z11
P	D		5962-789-3415							E	B658 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-5	2A2A3Z13
P	D		5962-789-3415							E	B659 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-5	2A2A3Z16
P	D		5962-789-3415							E	B660 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-5	2A2A3Z18

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
															DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) TREC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5962-789-3415							E	B661 INTEGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-5	2A2A3Z20
P	D		5962-789-3415							E	B662 INTEGRATED CIRCUIT: SAME AS B541	EA	1	REF										2A2A3Z22 6-5
P	D		5962-789-3415							E	B663 INTEGRATED CIRCUIT: SAME AS B541	EA	1	REF										2A2A3Z24 6-5
P	D		5962-105-4624							E	B664 INTEGRATED CIRCUIT: SAME AS B425	EA	1	7										2A2A3Z2 6-5
P	D		5962-105-4624							E	B665 INTEGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A3Z3 6-5
P	D		5962-105-4624							E	B666 INTEGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A3Z4 6-5
P	D		5962-105-4624							E	B667 INTEGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A3Z8 6-5
P	D		5962-105-4624							E	B668 INTEGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A3Z12 6-5
P	D		5962-105-4624							E	B669 INTEGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A3Z19 6-5
P	D		5962-105-4624							E	B670 INTEGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A3Z23 6-5
P	D		5962-344-4379							E	B671 INTEGRATED CIRCUIT. SAME AS B556	EA	1	3										2A2A3Z5 6-5
P	D		5962-344-4379							E	B672 INTEGRATED CIRCUIT: SAME AS B556	EA	1	REF										2A2A3Z14 6-5

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL										DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5962-344-4379							E	B673 INTEGRATED CIRCUIT: SAME AS B556	EA	1	REF										2A2A3Z21 6-5
X1	D									E	B674 PRINTED CIRCUIT BOARD: 14031, SMD632951	EA	1	1										2A2A3MP1 6-5
P	D		5961-944-3628							E	B675 PAD, TRANSISTOR: SAME AS B427	EA	1	5										2A2A3MP3 6-5
P	D		5961-944-3628							E	B676 PAD, TRANSISTOR: SAME AS B427	EA	1	REF										2A2A3MP4 6-5
P	D		5961-944-3628							E	B677 PAD, TRANSISTOR: SAME AS B427	EA	1	REF										2A2A3MP5 6-5
P	D		5961-944-3628							E	B678 PAD, TRANSISTOR: SAME AS B427	EA	1	REF										2A2A3MP6 6-5
P	D		5961-944-3628							E	B679 PAD, TRANSISTOR: SAME AS B427	EA	1	REF										2A2A3MP7 *6-5*
P	D		5905-185-8510							E	B680 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	12										2A2A3R1 6-5
P	D		5905-185-8510							E	B681 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF										2A2A3R2 6-5
P	D		5905-185-8510							E	B682 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF										2A2A3R4 6-5
P	D		5905-185-8510							E	B683 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF										2A2A3R14 6-5
P	D		5905-185-8510							E	B684 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF										2A2A3R15 6-5

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)					DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION		UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-185-8510							E	B685 RESISTOR, FIXED, COMPOSITION: SAME AS B459		EA	1	REF										2A2A3R16 6-5
P	D		5905-185-8510							E	B686 RESISTOR, FIXED, COMPOSITION: SAME AS B459		EA	1	REF										2A2A3R20 6-5
P	D		5905-185-8510							E	B687 RESISTOR, FIXED, COMPOSITION: SAME AS B459		EA	1	REF										2A2A3R21 6-5
P	D		5905-185-8510							E	B688 RESISTOR, FIXED, COMPOSITION: SAME AS B459		EA	1	REF										2A2A3R23 6-5
P	D		5905-185-8510							E	B689 RESISTOR, FIXED, COMPOSITION: SAME AS B459		EA	1	REF										2A2A3R24 6-5
P	D		5905-185-8510							E	B690 RESISTOR, FIXED, COMPOSITION: SAME AS B459		EA	1	REF										2A2A3R25 6-5
P	D		5905-185-8510							E	B691 RESISTOR, FIXED, COMPOSITION: SAME AS B459		EA	1	REF										2A2A3R26 6-5
P	D		5905-195-6806							E	B692 RESISTOR, FIXED, COMPOSITION: SAME AS B442		EA	1	4										2A2A3R5 6-5
P	D		5905-195-6806							E	B693 RESISTOR, FIXED, COMPOSITION: SAME AS B442		EA	1	REF										2A2A3R6 6-5
P	D		5905-195-6806							E	B694 RESISTOR, FIXED, COMPOSITION: SAME AS B442		EA	1	REF										2A2A3R7 6-5
P	D		5905-195-6806							E	B695 RESISTOR, FIXED, COMPOSITION: SAME AS B442		EA	1	REF										2A2A3R8 6-5
P	D		5905-195-6453							E	B696 RESISTOR, FIXED, COMPOSITION:: SAME AS B490		EA	1	2										2A2A3R9 6-5

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-195-6453							E	B697 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	REF										2A2A3R10 6-5
P	D		5905-279-3504							E	B698 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	3										2A2A3R12 6-5
P	D		5905-279-3504							E	B699 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF										2A2A3R13 6-5
P	D		5905-279-3504							E	B700 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF										2A2A3R19 6-5
P	D		5905-249-3661							E	B701 RESISTOR, FIXED, COMPOSITION: SAME AS B487	EA	1	3										2A2A3R17 6-5
P	D		5905-249-3661							E	B702 RESISTOR, FIXED, COMPOSITION: SAME AS B487	EA	1	REF										2A2A3R18 6-5
P	D		5905-249-3661							E	B703 RESISTOR, FIXED, COMPOSITION: SAME AS B487	EA	1	REF										2A2A3R22 6-5
P	D		5905-279-3503							E	B704 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF682J	EA	1	1								2		2A2A3R27 6-5
P	D		5961-400-5375							E	B705 SEMICONDUCTOR DEVICE. DIODE: SAME AS B506	EA	1	4										2A2A3CR1 6-5
P	D		5961-400-5375							E	B706 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF										2A2A3CR2 6-5
P	D		5961-400-5375							E	B707 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF										2A2A3CR3 6-5
P	D		5961-400-5375							E	B708 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF										2A2A3CR4 6-5

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	D									E	B709 STIFFENER, BAR: SAME AS B511	EA	1	1										2A2A3MP2 6-5
X2	D									*	B710 SCREW, MACHINE: SAME AS B512	EA	1	3										2A2A3H3 6-5
X2	D									*	B711 WASHER, LOCK: SAME AS B205	EA	1	3										2A2A3H3 6-5
X2	D									*	B712 NUT, PIAIN, HEXAGON: SAME AS B206	EA	1	3										2A2A3H3 6-5
P	D		5961-892-3405							E	B713 TRANSISTOR: SAME AS B515	EA	1	4										2A2A3Q1 6-5
P	D		5961-892-3405							E	B714 TRANSISTOR: SAME AS B515	EA	1	REF										2A2A3Q2 6-5
P	D		5961-892-3405							E	B715 TRANSISTOR: SAME AS B515	EA	1	REF										2A2A3Q3 6-5
P	D		5961-892-3405							E	B716 TRANSISTOR: SAME AS B515	EA	1	REF										2A2A3Q4 6-5
P	D		5961-985-9134							E	B717 TRANSISTOR: SAME AS B523	EA	1	1										2A2A3Q5 6-5
P	H	T	6625-441-9297							D	B718 COMPONENT BOARD ASSEMBLY: 14031; SMD633066	EA	1	1				2	2	2	40	3		2A2A4 6-6
P	D		5910-717-0167							E	B719 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	1										2A2A4C1 6-6
P	D		5962-789-3415							E	B720 INTERGRATED CIRCUIT: SAME AS B541	EA	1	12									2	A2A4Z1 6-6

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5962-789-3415							E	B721 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z2 6-6
P	D		5962-789-3415							E	B722 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z3 6-6
P	D		5962-789-3415							E	B723 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z4 6-6
P	D		5962-789-3415							E	B724 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z6 6-6
P	D		5962-789-3415							E	B725 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z7
P	D		5962-789-3415							E	B726 INTERGRATED CIRCUIT: SAME A$ B514	EA	1	REF									2A2A4Z8 6-6
P	D		5962-789-3415							E	B727 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z10 6-6
P	D		5962-789-3415							E	B728 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z11 6-6
P	D		5962-789-3415							E	B729 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z12 6-6
P	D		5962-789-3415							E	B730 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z15 6-6
P	D		5962-789-3415							E	B731 INTERGRATED CIRCUIT: SAME A$ B541	EA	1	REF									2A2A4Z16 6-6
P	D		5962-071-6913							E	B732 INTERGRATED CIRCUIT: 00530; U6A995979X	EA	1	2								2		2A2A4Z5 6-6

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5962-071-6913							E	B733 INTERGRATED CIRCUIT: SAME AS B732	EA	1	REF										2A2A4Z13 6-6
P	D		5962-344-4379							E	B734 INTERGRATED CIRCUIT: SAME AS B556	EA	1	2										2A2A4Z9 6-6
P	D		5962-344-4379							E	B735 INTERGRATED CIRCUIT: SAME AS B556	EA	1	REF										2A2A4Z14 6-6
P	D		5961-944-3628							E	B736 PAD, TRANSISTOR- SAME AS B427	EA	1	1										2A2A4MP3 6-6
X1	D									E	B737 PRINTED CIRCUIT BOARD: 14031; SMD632953	EA	1	1										2A2A4MP1 6-6
P	D		5905-252-4018							E	B738 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	2										2A2A4R1 6-6
P	D		5905-252-4018							E	B739 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF										2A2A4R2 6-6
P	D		5905-195-6806							E	B740 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	1										2A2A4R3 6-6
P	D		5905-185-8510							E	B741 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	1										2A2A4R4 6-6
X2		D								E	B742 STIFFENER, BAR: SAME AS B511	EA	1	1										2A2A4MP2 6-6
X2		D								*	B743 SCREW, MACINE: SAME AS B512	EA	1	3										2A2A4H3 6-6
X2	D									*	B744 WASHER LOCK: SAME AS B205	EA	1	3										2A2A4H3 6-6

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
				MODEL										DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	D									*	B745 NUT, PLAIN, HEXAGON: SAME AS B206	EA	1	3										2A2A4H3 6-6
P	D		5961-892-3405							E	B746 TRANSISTOR: SAME AS B515	EA	1	1										2A2A4Q1 6-6
P	H	T	6625-449-7735							D	B747 COMPONENT BOARD ASSEMBLY: 14031, SMD633067	EA	1	1				2	2	2	59	3		2A2A5 6-7
P	D		5910-950-1477							E	B748 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM20D681J03	EA	1	1								3		2A2A5C1 6-7
P	D		5962-105-4624							E	B749 INTERGRATED CIRCUIT: SAME AS B425	EA	1	5										2A2A5Z1 6-7
P	D		5962-105-4624							E	B750 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A5Z4 6-7
P	D		5962-105-4624							E	B751 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A5Z10 6-7
P	D		5962-105-4624							E	B752 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A5Z13 6-7
P	D		5962-105-4624							E	B753 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF										2A2A5Z22 6-7
P	D		5962-344-4379							E	B754 INTERGRATED CIRCUIT: SAME AS B556	EA	1	6										2A2A5Z2 6-7
P	D		5962-344-4379							E	B755 INTERGRATED CIRCUIT: SAME AS B556	EA	1	REF										2A2A5Z5 6-7
P	D		5962-344-4379							E	B756 INTERGRATED CIRCUIT: SAME AS B556	EA	1	REF										2A2A5Z8 6-7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5962-344-4379							E	B757 INTERGRATED CIRCUIT: SAME	EA A$ B556	1	REF										2A2A5Z9 6-7
P	D		5962-344-4379							E	B758 INTERGRATED CIRCUIT: SAME	EA A$ B556	1	REF										2A2A5Z11 6-7
P	D		5962-344-4379							E	B759 INTERGRATED CIRCUIT: SAME	EA A$ B556	1	REF										2A2A5Z21 6-7
P	D		5962-789-3415							E	B760 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	9										2A2A5Z3 6-7
P	D		5962-789-3415							E	B761 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A2A5Z6 6-7
P	D		5962-789-3415							E	B762 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A2A5Z7 6-7
P	D		5962-789-3415							E	B763 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A2A5Z12 6-7
P	D		5962-789-3415							E	B764 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A25Z14 6-7
P	D		5962-789-3415							E	B765 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A2A5Z5 6-7
P	D		5962-789-3415							E	B766 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A2A5Z16 6-7
P	D		5962-789-3415							E	B767 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A2A5Z19 6-7
P	D		5962-789-3415							E	B768 INTERGRATED CIRCUIT: SAME	EA A$ B541	1	REF										2A2A5Z20 6-7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE										(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)					DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION		UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D									E	B769	INTERGRATED CIRCUIT: SAME AS B419	EA	1	2										2A2A5Z17 6-7
P	D									E	B770	INTERGRATED CIRCUIT: SAME AS B419	EA	1	REF										2A2A5Z18 6-7
P	D		5961-944-3628							E	B771	PAD, TRANSISTOR: SAME AS B427	EA	1	2										2A2A5MP2 6-7
P	D		5961-944-3628							E	B772	PAD, TRANSISTOR: SAME AS B427	EA	1	REF										2A2A5MP3 6-7
X1	D									E	B773	PRINTED CIRCUIT BOARD: 14031, SMD632956	EA	1	1									6-7	2A2A5MP1
P	D		5905-104-8339							E	B774	RESISTOR, FIXED, COMPOSITION: 81349, RC20GF824J	EA	1	1								2		2A2A5R1 6-7
P	D		5905-114-5428							E	B775	RESISTOR, FIXED, COMPOSITION: 81349, RC20GF394J	EA	1	1								2		2A2A5R2 6-7
P	D		5905-192-0667							E	B776	RESISTOR, FIXED, COMPOSITION: 81349, RC20GF224J	EA	1	1								2		2A2A5R3 6-7
P	D		5905-795-6761							E	B777	RESISTOR, FIXED, COMPOSITION: SAME AS B477	EA	1	1										2A2A5R4 6-7
P	D		5905-114-5489							E	B778	RESISTOR, FIXED, COMPOSITION: 81349, RC20GF823J	EA	1	1								6		2A2A5R5 6-7
P	D		5905-141-0599							E	B779	RESISTOR, FIXED, COMPOSITION: 81349, RC20GF393J	EA	1	1								2		2A2A5R6 6-7
P	D		5905-171-2004							E	B780	RESISTOR, FIXED, COMPOSITION: SAME AS B483	EA	1	1										2A2A5R7 6-7
P	D		5905-252-4018							E	B781	RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	2										2A2A5R10 6-7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-252-4018							E	B782 RESISTOR, FIXED, COMPOSITION: SAME AS B466	EA	1	REF										2A2A5R16 6-7
P	D		5905-195-6453							E	B783 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	2										2A2A5Z11 6-7
P	D		5905-195-6453							E	B784 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	REF										2A2A5R14 6-7
P	D		5905-195-6806							E	B785 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	3										2A2A5R12 6-7
P	D		5905-195-6806							E	B786 RESISTOR,. FIXED, COMPOSITION: SAME AS B442	EA	1	REF										2A2A5R13 6-7
P	D		5905-195-6806							E	B787 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF										2A2A5R17 6-7
P	D		5905-190-8889							E	B788 RESISTOR, FIXED, COMPOSITION: SAME AS B473	EA	1	1										2A2A5R15 6-7
P	D		5905-279-1757							E	B789 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF152J	EA	1	1								10		2A2A5R18 6-7
X2	D									E	B790 STIFFENER, BAR: SAME AS B511	EA	1	1										2A2A5MP4 6-7
X2	D									*	B791 SCREW, MACHINE: SAME AS B512	EA	1	3										2A2A5H3 6-7
X2	D									*	B792 WASHER, LOCK: SAME AS B205	EA	1	3										2A2A5H3 6-7
X2	D									*	B793 NUT, PLAIN, HEXAGON: SAME AS B206	EA	1	3										2A2A5H3 6-7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-892-3405							E	B794 TRANSISTOR: SAME AS B515	EA	1	2									6-7	2A2A5Q1
P	D		5961-892-3405							E	B795 TRANSISTOR: SAME AS B515	EA	1	REF									6-7	2A2A5Q2
P	H	T	6625-441-9296							D	B796 COMPONENT BOARD ASSEMBLY: 14031, SMD633068	EA	1	1				2	2	2	130	3	6-8	2A2A6
P	D		5910-925-6200							E	B797 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B403	EA	1	2									6-8	2A2A6C1
P	D		5910-925-6200							E	B798 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B403	EA	1	REF									6-8	2A2A6C2
P	D		5910-963-9069							E	B799 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B407	EA	1	4									6-8	2A26C3
P	D		5910-963-8069							E	B800 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B407	EA	1	REF									6-8	2A2A6C4
P	D		5910-963-8069							E	B801 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B407	EA	1	REF									6-8	2A2A6C18
P	D		5910-963-8069							E	B802 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B407	EA	1	REF									6-8	2A2A6C20
P	D		5910-810-4849							E	B803 CAPACITOR, FIXED, ELECTROLYTIC: SAME AS B412	EA	1	1									6-8	2A2A6C5
P	D		5910-728-4093							E	B804 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM06D182J03	EA	1	1								3	6-8	2A2A6C6
P	D		5910- 045-5432							E	B805 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM06D681J03	EA	1	1								6	6-8	2A2A6C7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5910-954-5500							E	B807 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	3									6-8	2A2A6C10
P	D		5910-954-5500							E	B808 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-8	2A2A6C11
P	D		5910-954-5500							E	B809 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-8	2A2A6C12
P	D		5910-054-0765							E	B810 CAPACITOR, FIXED, MICA DIELECTRIC : 81349; CMN5D221J03	EA	1	1								3	6-8	2A2A6C19
P	D		5910-655-0137							E	B811 CAPACITOR, FIXED, PAPER DIELECTRIC: 81349; CP09A1KB473K3	EA	1	1								3	6-8	2A2A6C13
P	D		5950-883-9448							E	B812 COIL, RADIO FREQUENCY: 99800; 2500-12	EA	1	4								12	6-8	2A2A6L1
P	D		5950-883-9448							E	B813 COIL, RADIO FREQUENCY: SAME AS B812	EA	1	REF									6-8	2A2A6L2
P	D		5950-883-9448							E	B814 COIL, RADIO FREQUENCY: SAME AS B812	EA	1	REF									6-8	2A2A6L3
P	D		5950-883-9448							E	B815 COIL, RADIO FREQUENCY: SAME AS B812	EA	1	REF									6-8	2A2A6L4
P	O		5920-356-2185							E	B816 FUSE, CARTRIDGE- 75915; 312-100	EA	1	1				4	6	7	352	300	6-8	2A2A6F1
P	D		5962-105-4624							E	B817 INTERGRATED CIRCUIT: SAME AS B425	EA	1	2									6-8	2A2A6Z1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5962-105-4624							E	B818 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-8	2A2A6Z3
P	D		5962-410-0751							E	B819 INTERGRATED CIRCUIT: 25677 U6A909959X	EA	1	2								1	6-8	2A2A6Z2
P	D		5962-344-4379							E	B820 INTERGRATED CIRCUIT: SAME AS B556	EA	1	REF									6-8	2A2A6Z5
P	D		5962-789-3415							E	B821 INTERGRATED CIRCUIT: SAME AS B541	EA	1	2									6-8	2A2A6Z4
P	D		5962-789-3415							E	B822 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-8	2A2A6Z6
P	D									E	B823 INTERGRATED CIRCUIT: 25677; U6E7709393	EA	1	2								2	6-8	2A2A6Z7
P	D									E	B824 INTERGRATED CIRCUIT: SAME AS B823	EA	1	REF									6-8	2A2A6Z8
P	D		5961-944-3628							E	B825 PAD, TRANSISTOR: SAME AS B427	EA	1	6									6-8	2A2A6MP2
P	D		5961-944-3628							E	B826 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-8	2A2A6MP3
P	D		5961-944-3628							E	B827 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-8	2A2A6MP4
P	D		5961-944-3628							E	B828 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-8	2A2A6MP5
P	D		5961-944-3628							E	B829 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-8	2A2A6MP6

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-944-3628							E	B830 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-8	2A2A6MP7
P	D		5961-059-1137							E	B831 PAD, TRANSISTOR: SAME AS B426	EA	1	1									6-8	2A2A6MP8
X1	D									E	B832 PRINTED CIRCUIT BOARD: 14031; SMD632957	EA	1	1									6-8	2A2A6MP1
P			5905-110-0196							E	B833 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	7									6-8	2A2A6R10
P	D		5905-110-0196							E	B834 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-8	2A2A6R12
P	D		5905-110-0196							E	B835 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-8	2A2A6R40
P	D		5905-110-0196							E	B836 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-8	2A2A6R41
P	D		5905-110-0196							E	B837 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-8	2A2A6R48
P	D		5905-110-0196							E	B838 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-8	2A2A6R56
P	D		5905-110-0196							E	B839 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-8	2A2A6R61
P	D		5905-106-9345							E	B840 RESISTOR, FIXED, COMPOSITION: SAME AS 3487	EA	1	1									6-8	2A2A6R17
P	D		5961-944-3628							E	B841 RESISTOR, FIED, COMPOSITION: SAME AS B789	EA	1	4									6-8	2A2A6R18

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-944-3628							E	B842 RESISTOR, FIXED, COMPOSITION: SAME AS B789	EA	1	REF									6-8	2A2A6R31
P	D		5961-944-3628							E	B843 RESISTOR, FIXED, COMPOSITION: SAME AS B789	EA	1	REF									6-8	2A2A6R32
P	D		5961-944-3628							E	B844 RESISTOR, FIXED, COMPOSITION: SAME AS B789	EA	1	REF									6-8	2A2A6R55
P	D		5905-141-1116							E	B845 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	4									6-8	2A2A6R19
P	D		5905-141-1116							E	B846 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	REF									6-8	2A2A6R21
P	D		5905-141-1116							E	B847 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	REF									6-8	2A2A6R42
P	D		5905-141-1116							E	B848 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	REF									6-8	2A2A6R46
P	D		5905-279-2616							E	B849 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF153J	EA	1	2								4	6-8	2A2A6R20
P	D		5905-279-2616							E	B850 RESISTOR, FIXED, COMPOSITION: SAME AS B849	EA	1	REF									6-8	2A2A6R52
P	D		5905-141-0591							E	B851 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	5									6-8	2A2A6R22
P	D		5905-141-0591							E	B852 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-8	2A2A6R23
P	D		5905-141-0591							E	B853 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-8	2A2A6R24
P	D		5905-141-0591							E	B854 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-8	2A2A6R28

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-141-0591							E	B855 RESISTOR, FIXED, COMPOSITION: SAME AS B459	EA	1	REF									6-8	2A2A6R44
P	D		5905-114-5489							E	B856 RESISTOR, FIXED, COMPOSITION: SAME AS B778	EA	1										6-8	2A2A6R25
P	D		5905-114-5489							E	B857 RESISTOR, FIXED, COMPOSITION: SAME AS B778	EA	1	REF									6-8	2A2A6R34
P	D		5905-279-2522							E	B858 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF154J	EA	1	1								2	6-8	2A2A6R33
P	D		5905-279-3514							E	B859 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF181J	EA	1	2								4	6-8	2A2A6R43
P	D		5905-279-3514							E	B860 RESISTOR, FIXED, COMPOSITION: SAME AS B860	EA	1	REF									6-8	2A2A6R60
P	D		5905-110-0196							E	B861 RESISTOR, FIXED, COMPOSITION: SAME AS B477	EA	1	1									6-8	2A2A6R45
P	D		5905-104-8348							E	B862 RESISTOR, FIXED, COMPOSITION: SAME AS B489	EA	1	3									6-8	2A2A6R49
P	D		5905-104-8348							E	B863 RESISTOR, FIXED, COMPOSITION: SAME AS B489	EA	1	REF									6-8	2A2A6R57
P	D		5905-104-8348							E	B864 RESISTOR, FIXED, COMPOSITION: SAME AS B489	EA	1	REF									6-8	2A2A6R63
P	D		5905-192-0390							E	B865 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF105J	EA	1	1								2	6-8	2A2A6R53
P	D		5905-141-1168							E	B866 RESISTOR, FIXED, COMPOSITION: SAME AS B494	EA	1	4									6-8	2A2A6R58

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL					IND	(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-192-3973							E	B867 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF471J	EA	1	1								24	6-8	2A2A6R65
P	D		5905-988-0604							E	B868 RESISTOR, FIXED, FILM: 14674, RN20X1502F	EA	1	2								4	6-8	2A2A6R4
P	D		5905-988-0604							E	B869 RESISTOR, FIXED, FILM: SAME AS B868	EA	1	REF									6-8	2A2A6R6
P	D									E	B870 RESISTOR, FIXED, FILM: 14674, RN20S1002F	EA	1	2								4	6-8	2A2A6R5
P	D									E	B871 RESISTOR, FIXED, FILM: SAME AS B870	EA	1	REF									6-8	2A2A6R7
P	D									E	B872 RESISTOR, FIXED, FILM: 14674, RN20X6810F	EA	1	2								4	6-8	2A2A6R13
P	D									E	B873 RESISTOR, FIXED, FILM: SAME AS B872	EA	1	REF									6-8	2A2A6R16
P	D		5905-990-2832							E	B874 RESISTOR, FIXED, FILM: 14674, RN20X2002F	EA	1	2								4	6-8	2A2A6R14
P	D		5905-990-2832							E	B875 RESISTOR, FIXED, FILM: SAME AS B874	EA	1	REF									6-8	2A2A6R15
P	D		5905-764-3239							E	B876 RESISTOR, VARIABLE: 80294; 3067P1-202	EA	1	1								2	6-8	2A2A6R1
P	D		5905-993-7406							E	B877 RESISTOR, VARIABLE: SAME AS B463	EA	1	5									6-8	2A2A6Rll
P	D		5905-993-7406							E	B878 RESISTOR, VARIABLE: SAME AS B463	EA	1	REF									6-8	2A2A6R29
P	D		5905-933-7406							E	B879 RESISTOR, VARIABLE: SAME AS B463	EA	1	REF									6-8	2A2A6R30

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-993-7406							E	B880 RESISTOR, VARIABLE: SAME AS B463	EA	1	REF									6-8	2A2A6R59
P	D		5905-993-7406							E	B881 RESISTOR, VARIABLE: SAME AS B463	EA	1	REF									6-8	2A2A6R64
P	D		5905-068-6962							E	B882 RESISTOR, VARIABLE: 80294 3067P1-102	EA	1	1								2	6-8	2A2A6R62
P	D		5961-400-5375							E	B883 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	3									6-8	2A2A6CR11
P	D		5961-400-5375							E	B884 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-8	2A2A6CR12
P	D		5961-400-5375							E	B885 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-8	2A2A6CR17
P	D		5961-556-2091							E	B886 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	10									6-8	2A2A6CR3
P	D		5961-446-2091							E	B887 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR4
P	D		5961-446-2091							E	B888 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR5
P	D		5961-446-2091							E	B889 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR6
P	D		5961-446-2091							E	B890 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR7
P	D		5961-446-2091							E	B891 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR8
P	D		5961-446-2091							E	B892 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR13

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-556-2091							E	B893 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR14
P	D		5961-556-2091							E	B894 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR15
P	D		5961-556-2091							E	B895 SEMICONDUCTOR DEVICE, DIODE: SAME AS B400	EA	1	REF									6-8	2A2A6CR16
P	D		5961-765-4612							E	B896 SEMICONDUCTOR DEVICE, DIODE: SAME AS B495	EA	1	2									6-8	2A2A6CR9
P	D		5961-765-4612							E	B897 SEMICONDUCTOR DEVICE, DIODE: SAME AS B495	EA	1	REF									6-8	2A26CR10
X1	D									E	B898 STIFFENER, BAR: SAME AS B511	EA	1	1									6-8	2A2A6MP9
X2	D									*	B899 SCREW, MACHINE: SAME AS B512	EA	1	3									6-8	2A2A6H3
X2	H									*	B900 WASHER, LOCK: SAME AS B205	EA	1	3									6-8	2A2A6H3
X2	H									*	B901 NUT, PLAIN, HEXAGON: SAME AS B206	EA	1	3									6-8	2A2A6H3
P	D		5950-919-6480							E	B902 TRANSFORMER, POWER: 14031; 31074	EA	1	2								6	6-8	2A2A6T1
P	D		5950-919-6480							E	B903 TRANSFORMER, POWER: SAME AS B902	EA	1	REF									6-8	2A2A6T2
P	D		5961-838-8888							E	B904 TRANSISTOR: 01295; 2N1300	EA	1	4								16	6-8	2A2A6Q1

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-838-8888							E	B905 TRANSISTOR: SAME AS B904	EA	1	REF									6-8	2A2A6Q2
P	D		5961-838-8888							E	B906 TRANSISTOR: SAME AS B904	EA	1	REF									6-8	2A2A6Q3
P	D		5961-838-8888							E	B907 TRANSISTOR: SAME AS B904	EA	1	REF									6-8	2A2A64
P	D		5961-892-3405							E	B908 TRANSISTOR: SAME AS B515	EA	1	1									6-8	2A2A6Q5
P	D		5961-842-6937							E	B909 TRANSISTOR: SAME AS B527	EA	1	1									6-8	2A2A6Q6
P	D		5961-837-7262							E	B910 TRANSISTOR- SAME AS B521	EA	1	REF									6-8	2A2A6Q7
P	H	T	6625-441-9295							D	B911 COMPONENT BOARD ASSEMBLY: 14031; SMD633061	EA	1	1				2	2	2	130	3	6-9	2A2A7
P	D		5961-078-0625							E	B912 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B406	EA	1	4									6-9	2A2A7C4
P	D		5961-078-0625							E	B913 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B406	EA	1	REF									6-9	2A2A7C10
P	D		5961-078-0625							E	B914 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B406	EA	1	REF									6-9	2A2A7C16
P	D		5961-078-0625							E	B915 CAPACITOR, FIXED, CERAMIC DIELECTRIC: SAME AS B406	EA	1	REF									6-9	2A2A7C22
P	D		5910-810-4849							E	B916 CAPACITOR, FIXED, DIELECTRIC: SAME AS B412	EA	1	4									6-9	2A2A7C3

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5910-810-4849							E	B917 CAPACITOR, FIXED, ELECTROLYTIC: SAME AS B412	EA	1	REF									6-9	2A2A7C9
P	D		5910-810-4849							E	B918 CAPACITOR, FIXED, ELECTROLYTIC: SAME AS B412	EA	1	REF									6-9	2A2A7C15
P	D		5910-810-4849							E	B919 CAPACITOR, FIXED, ELECTROLYTI : SAME AS B412	EA	1	REF									6-9	2A2A7C21
P	D		5910-717-0167							E	B920 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	2									6-9	2A2A7C1
P	D		5910-717-0167							E	B921 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B535	EA	1	REF									6-9	2A2A7C26
P	D		5910-401-2993							E	B922 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM06D252J03	EA	1	3								9	6-9	2A2A7C2
P	D		5910-401-2993							E	B923 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B922	EA	1	REF									6-9	2A2A7C8
P	D		5910-401-2993							E	B924 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B922	EA	1	REF									6-9	2A2A7C20
P	D		5910-954-5500							E	B925 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	4									6-9	2A2A7C5
P	D		5910-954-5500							E	B926 CAPACITOR, FIXED, MICA DIELECTRIC : SAME AS B648	EA	1	REF									6-9	2A2A7C11l
P	D		5910-954-5500							E	B927 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-9	2A2A7C17
P	D		5910-954-5500							E	B928 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B648	EA	1	REF									6-9	2A2A7C23

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5910-965-9441							E	B929 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B415	EA	1	4									6-9	2A2A7C6
P	D		5910-965-9441							E	B930 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B415	EA	1	REF									6-9	2A2A7C12
P	D		5910-965-9441							E	B931 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B415	EA	1	REF									6-9	2A2A7C18
P	D		5910-965-9441							E	B932 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B415	EA	1	REF									6-9	2A2A7C24
P	D		5910-269-3919							E	B933 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM05D220J03	EA	1	2								6	6-9	2A2A7C7
P	D		5910-269-3919							E	B934 CAPACITOR, FIXED, MICA DIELECTRIC: SAME AS B933	EA	1	REF									6-9	2A2A7C13
P	D		5910-082-5032							E	B935 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM05D331J03	EA	1	1								3	6-9	2ARA7C14
P	D		5910-952-7046							E	B936 CAPACITOR, FIXED, MICA DIELECTRIC: 81349, CM05D560J03	EA	1	1								3	6-9	2ARA7C19
P	D									E	B937 CAPACITOR, FIXED, MICA DIELECTRIC: 81349; CM05D330J03	EA	1	1								3	6-9	2A2A7C25
P	D		5955-177-1569								B938 CRYSTAL UNIT, QUARTZ: 81349, CR37AU145-440	EA	1	1								2	6-9	2A2A7Y1
P	D		5955-900-4108							E	B939 CRYSTAL UNIT, QUARTZ: 81349, CR37AU195-584	EA	1	1								2	6-9	2A2ATY2
P	D		5955-238-9437							E	B940 CRYSTAL UNIT, QUARTZ: 81349, CR18AU19-20	EA	1	1								2	6-9	2A2A7Y3

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5935-990-6219							E	B941 HOLDER, QUARTZ CRYSTAL: 91506, 8000DG2	EA	1	3								9	6-9	2A2A7XY1
P	D		5935-990-6219							E	B942 HOLDER, QUARTZ CRYSTAL: SAME AS B941	EA	1	REF									6-9	2A2A7XY2
P	D		5935-990-6219							E	B943 HOLDER, QUARTZ CRYSTAL: SAME AS B941	EA	1	REF									6-9	2A2A7XY3
P	D		5962-105-4624							E	B944 INTERGRATED CIRCUIT: SAME AS B425	EA	1	4									6-9	2A2A7Z1
P	D		5962-105-4624							E	B945 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-9	2A2A7Z3
P	D		5962-105-4624							E	B946 INTEGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-9	2A2A7Z5
P	D		5962-105-4624							E	B947 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-9	2A2A7Z6
P	D		5962-789-3415							E	B948 INTERGRATED CIRCUIT: SAME AS B541	EA	1	3									6-9	2A2A7Z2
P	D		5962-789-3415							E	B949 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-9	2A2A7Z4
P	D		5962-789-3415							E	B950 INTERGRATED CIRCUIT: SAME AS B541	EA	1	REF									6-9	2A2A7Z7
P	D		5962-105-4624							E	B951 INTERGRATED CIRCUIT: SAME AS B425	EA	1	2									6-9	2A2A7Z8
P	D		5962-105-4624							E	B952 INTERGRATED CIRCUIT: SAME AS B425	EA	1	REF									6-9	2A2A7Z9

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-944-3628							E	B953 PAD, TRANSISTOR: SAME AS B427	EA	1	8									6-9	2A2A7MP3
P	D		5961-944-3628							E	B954 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-9	2A2A7MP4
P	D		5961-944-3628							E	B955 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-9	2A2A7MP5
P	D		5961-944-3628							E	B956 PAD, TRANSISTOR. SAME AS B427	EA	1	REF									6-9	2A2A7MP6
P	D		5961-914-3628							E	B957 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-9	2A2A7MP7
P	D		5961-944-3628							E	B958 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-9	2A2A7MP8
P	D		5961-944-3628							E	B959 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-9	2A2A7MP9
P	D		5961-944-3628							E	B960 PAD, TRANSISTOR: SAME AS B427	EA	1	REF									6-9	2A2A7MP10
X1	D									E	B961 PRINTED CIRCUIT BOARD: 14031; SMD632880	EA	1		1								6-9	2A2A7MP1
P	D		5905-111-4858							E	B962 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	11									6-9	2A2A7R1
P	D		5905-111-4858							E	B963 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R2
P	D		5905-111-4858							E	B964 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R3

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-111-4858							E	B965 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R4
P	D		5905-111-4858							E	B966 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R5
P	D		5905-111-4858							E	B967 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R6
P	D		5905-111-4858							E	B968 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R7
P	D		5905-111-4858							E	B969 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R8
P	D		5905-111-4858							E	B970 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R9
P	D		5905-111-4858							E	B971 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R55
P	D		5905-111-4858							E	B972 RESISTOR, FIXED, COMPOSITION: SAME AS B867	EA	1	REF									6-9	2A2A7R59
P	D		5905-141-1116							E	B973 RESISTOR, FIXED, COMPOSITION: SAME AS B490	EA	1	1									6-9	2A2A7R10
P	D		5905-141-0596							E	B974 RESISTOR, FIXED, COMPOSITION: SAME AS B493	EA	1	3									6-9	2A2A7R11
P	D		5905-141-0596							E	B975 RESISTOR, FIXED, COMPOSITION: SAME AS B493	EA	1	REF									6-9	2A2A7R19
P	D		5905-141-0596							E	B976 RESISTOR, FIXED, COMPOSITION: SAME AS B493	EA	1	REF									6-9	2A2A7R37

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-141-0600							E	B977 RESISTOR, FIXED, COMPOSITION: 81349, RC20GF822J	EA	1	4								8	6-9	2A2A7R12
P	D		5905-141-0600							E	B978 RESISTOR, FIXED, COMPOSITION: SAME AS B977	EA	1	REF									6-9	2A2A7R20
P	D		5905-141-0600							E	B979 RESISTOR, FIXED, COMPOSITION: SAME AS B977	EA	1	REF									6-9	2A2A7R28
P	D		5905-141-0600							E	B980 RESISTOR, FIXED, COMPOSITION: SAME AS B977	EA	1	REF									6-9	2A2A7R38
P	D		5905-141-0595							E	B981 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	7									6-9	2ALA7R13
P	D		5905-141-0595							E	B982 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF									6-9	2A2A7R18
P	D		5905-141-0595							E	B983 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF									6-9	2A2A7R21
P	D		5905-141-0595							E	B984 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF									6-9	2A2A7R26
P	D		5905-141-0595							E	B985 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF									6-9	2A2A7R34
P	D		5905-141-0595							E	B986 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF									6-9	2A2A7R39
P	D		5905-141-0595							E	B987 RESISTOR, FIXED, COMPOSITION: SAME AS B468	EA	1	REF									6-9	2A2A7R44
P	D		5905-114-5388							E	B988 RESISTOR, FIXED, COMPOSITION: SAME AS B465	EA	1	4									6-9	2A2ATR14

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-114-5388							E	B989 RESISTOR, FIXED, COMPOSITION: SAME AS B465	EA	1	REF									6-9	2A2A7R22
P	D		5905-114-5388							E	B990 RESISTOR, FIXED, COMPOSITION: SAME AS B465	EA	1	REF									6-9	2A2A7R30
P	D		5905-114-5388							E	B991 RESISTOR, FIXED, COMPOSITION: SAME AS B465	EA	1	REF									6-9	2A2A7R40
P	D		5905-110-0196							E	B992 RESISTOR, FIXED, COMPOSITION. SAME AS B442	EA	1	9									6-9	2A2A7R15
P	D		5905-110-0196							E	B993 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A2A7R17
P	D		5905-110-0196							E	B994 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A2A7R23
P	D		5905-110-0196							E	B995 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A2A7R25
P	D		5905-110-0196							E	B996 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A2A7R31
P	D		5905-110-0196							E	B997 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A2A7R33
P	D		5905-110-0196							E	B998 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A2A7R41
P	D		5905-110-0196							E	B999 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A2A7R43
P	D		5905-110-0196							E	C001 RESISTOR, FIXED, COMPOSITION: SAME AS B442	EA	1	REF									6-9	2A27R60

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5905-106-9344							E	C002 RESISTOR, FIXED, COMPOSITION: SAME AS B473	EA	1	4									6-9	2A2A7R16
P	D		5905-106-9344							E	C003 RESISTOR, FIXED COMPOSITION: SAME AS B473	EA	1	REF									6-9	2A2A?R24
P	D		5905-106-9344							E	C004 RESISTOR, FIXED, COMPOSITION: SAME AS B473	EA	1	REF									6-9	2A2A7R32
P	D		5905-106-9344							E	C005 RESISTOR, FIXED, COMPOSITION: SAME AS B473	EA	1	REF									6-9	2A2A7R42
P	D		5905-279 3499							E	C006 RESISTOR,, FIXED, COMPOSITION: 81349; RC20GF273J	EA	1	1								2	6-9	2A2A7R2?
P	D		5905-190-8881							E	C007 RESISTOR, FIXED, COMPOSITION: 81349; RC20GF182J	EA	1	2								4	6-9	2A2A7R29
P	D		5905-279-3499							E	C008 RESISTOR, FIXED, COMPOSITION: SAME AS C006	EA	1	REF									6-9	2A2A7R58
P	D		5905-104-8348							E	C009 RESISTOR, FIXED, COMPOSITION: SAME AS B489	EA	1	2									6-9	2A2A7R56
P	D		5905-104-8348							E	C010 RESISTOR, FIXED COMPOSITION: SAME AS B489	EA	1	REF									6-9	2A2A7R57
P	D		5961-400-5375							E	C011 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	5									6-9	2A2A7CR
P	D		5961-400-5375							E	C012 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-9	2A2A7CR2
P	D		5961-400-5375							E	C013 SEMICONDUCTOR DEVICE, DIODE: SAME AS B506	EA	1	REF									6-9	2A2A7CR3

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						IND	(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-400-5375							E	C014 SEMICONDUCTOR DEVICE, DIODE. SAME AS B506	EA	1	REF									6-9	2A2A7CR4
P	D		5961-400-5375							E	C015 SEMICONDUCTOR DEVICE, DIODE. SAME AS B506	EA	1	REF									6-9	2A2A7CR5
X1	D									E	C016 STIFFENER, BAR: SAME AS B511	EA	1	1									6-9	2A2A7MP2
X2	D									*	C017 SCREW, MACHINE: SAME AS B512	EA	1	3									6-9	2A2A7H3
X2	H									*	C018 WASHER, LOCK: SAME AS B205	EA	1	3									6-9	2A2A7H3
X2	H									*	CO19 NUT, PLAIN, HEXAGON: SAME AS B206	EA	1	3									6-9	2A2A7H3
P	D		5961-892-3405							E	C020 TRANSISTOR. SAME AS B515	EA	1	8									6-9	2A2A7Q1
P	D		5961-892-3405							E	C021 TRANSISTOR: SAME AS B515	EA	1	REF									6-9	2A2A7Q2
P	D		5961-892-3405							E	C022 TRANSISTOR: SAME AS B515	EA	1	REF									6-9	2A2A7Q3
P	D		5961-892-3405							E	C023 TRANSISTOR: SAME AS B515	EA	1	REF									6-9	2A2A7Q4
P	D		5961-892-3405							E	CO24 TRANSISTOR: SAME AS B515	EA	1	REF									6-9	2A2A7Q5
P	D		5961-892-3405							E	C025 TRANSISTOR: SAME AS B515	EA	1	REF									6-9	2A2A7Q6
P	D		5961-892-3405							E	C026 TRANSISTOR: SAME AS B515	EA	1	REF									6-9	2A2A7Q7

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
														DS			GS						
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	D		5961-892-3405							E	C027TRANSISTOR: SAME AS B515	EA	1	REF									6-9	2A2A7Q8
P	H		5999-441-9217							D	C028ADAPTER CARD ASSEMBLY. 14031, SMD633062	EA	1	1	*	*	*	5	2				6-1	2A2A8
X1	H									E	C029ADAPTER BOARD: 14031; SMC632884	EA	1	1									6-1	2A2A8Mpl
X2	H									E	C030CONNECTOR RECEPTACLE, ELECTRICAL: 97954; UPCRDW22DM30T1	EA	1	1									6-1	2A2A8MP2
X2	H									E	C031EXTRACTOR ASSEMBLY: 14031; SM0632887-1	EA	1	1									6-1	2A2A8A1
X2	H									F	C032EXTRACTOR, TOOL: 14031, SMC632887-1	EA	1	1									6-1	2A2A8AIMP1
X2	H		5315-271-3045							F	C033PIN, ROLL: 22599; 79-022-094-0562	EA	1	2									6-1	2A2A8AIMP2
X1	H									C	C034PANEL ASSEMBLY, REAR: 14031; SMD633014	EA	1	1									6-1	2A3
X2	H									*	C035SCREW, MACHINE: SAME AS B239	EA	1	10									6-1	2H10
X2	H									*	C036SCREW, MACHINE: SAME AS B156	EA	1	10									6-1	2H10
X2	H									D	C037BRACKET ASSEMBLY, TRANSISTOR: 14031, SMC633020	EA	1	1									6-1	2A3A1
X2	H									*	CO38SCREW, MACHINE: 70318, 8-32X1-2PANHDCRES	EA	1	2									6-1	2A3H2

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS					
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	1 YR ALW PER 100 EQUIP. CNTGCY	DEPOT MAINT ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	C039WASHER, FLAT: SAME AS B392	EA	1	2										2A3H2
																							6-1	
X2	H		5310-866-4638								C040 NUT, SELF-LOCKING, CLINCH	EA	1	2										2A3H2
											SAME AS B242												6-1	
P	H									D	C041CAPACITOR, FIXED, PAPER	EA	1	2	*	2	2	2	13	6			2A3C1
											DIELECTRIC; 81831; FV2F473												6-1	
P	H									D	C042CAPACITOR, FIXED, PAPER	EA	1	REF									2A3C2
											DIELECTRIC: SAME AS C041												6-1	
P	H									D	C043COIL, RADIO FREQUENCY 13619;	EA	1	2	*	2	2	13	6				2A3L1
											RF3033-3												6-1	
P	H									D	C044COIL, RADIO FREQUENCY:	EA	1	REF									2A3L2
											SAME AS C043												6-1	
P	H		5935-057-2690							D	C045CONNECTOR, PWG, ELECTRICAL.	EA	1	1	*	*	*	8	3				2A3P2
											71468, DAM15P												6-1	
P	P		5935-897-4766							D	C046CONNECTOR RECEPTACLE,	EA	1	1	*	*	*	8	3				2A3J2
											ELECTRICAL: 71468; DAM158												6-1	
P	H		5935-835-0508							D	C047CONNECTOR, PLUG, ELECTRICAL.	EA	1	1	*	*	*	8	3				2A3P3
											81349, UG88BU												6-1	
P	H		5935-892-9035							D	C048CONNECTOR RECEPTACLE,	EA	1	1	*	*	*	8	3				2A3J1
											ELECTRICAL: 81349, UG657U												6-1	
P	H		5935-716-6572							D	C049CONNECTOR, RECEPTACLE,	EA	1	1	*	*	*	8	3				2A3T3
											ELECTRICAL: 71468, DBM25S												6-1	
P	H		5935-615-2420							D	C050CONNECTOR RECEPTACLE,	EA	1	1	*	*	*	8	3				2A3J4
											ELECTRICAL: 74545; 7486G												6-1	

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	C051SCREW, MACHINE: SAME AS B154	EA	1	2									6-1	2A3H2
X2	H									*	C052WASHER, LOCK: SAME AS B147	EA	1	2									6-1	2A3H2
X2	H									*	C053NUT, PLAIN, HEXAGON: SAME AS B148	EA	1	2									6-1	2A3H2
X2	H									D	C054INSULATOR, STANDOFF SAME AS B334	EA	1	1									6-1	2A3MP13
X2	H									*	C055SCREW, MAC}IINE: SAME AS B154	EA	1	1									6-1	2A3H1
X2	H									*	C056WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A3H1
X2	H									*	C057WASHER, FLAT, SAME AS B156	EA	1	1									6-1	2A3H1
X2	H									D	C058INSULATOR, STANDOFF: SAME AS B334	EA	1	1									6-1	2A3MP14
X2	H									*	C059SCREW, MACHINE: SAME AS B154	EA	1	1									6-1	2A3H1
X2	H									*	C060WASHER, LOCK: SAME AS B147	EA	1	1									6-1	2A3H1
X2	H									*	C061WASHER, FLAT: SAME AS B156	EA	1	1									6-I	2A3H1
P	H		6625-497-9791							D	C062CABLE ASSEMBLY, POWER, ELECTRICAL 14031; CX12105/U	EA	1	1	*	*	*	8	·3				6-1	2A3A2

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL										DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	(3) DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
P	H		5935-683-5888							E	C063CONNECTOR, RECEPTACLE, ELECTRICAL. 74545; 7484	EA	1	1	*	*	*	8	3				6-1	2A3A2JL
P	H									E	C064CABLE, POWER, ELECTRICAL: 70903, 17408B18	EA	1	1	*	2	2	19	10				6-1	2A3A2W
P	H		5805-806-1856							D	C065MOUNTING KIT, TRANSISTOR 04713; MK15	EA	1	1	*	*	*	4	1				6-1	2A3MP9
X2	H									*	C066SCREW, MACHINE SAME AS B239	EA	1										6-1	2A3H2
X2	H									*	C067WASHER, FLAT. SAME AS	3156	EA	1	2								6-1	2A3H2
X2	H									*	C068WASHER, LOCK: SAME AS B147	EA	1	2									6-1	2A3H2
X2	H									*	C069NUT, PLAIN, HEXAGON: SAME AS B148	EA	1	2									6-1	2A3H2
P	H		5805-806-1856							D	C070MOUNTING KIT, TRANSISTOR: SANE AS C065	EA	1	1									6-1	2A3MP10
X2	H									*	C071SCREW, MACHINE. SAME AS B239	EA	1	2									6-1	2A3H2
X2	H									*	C072WASHER, FLAT. SAME AS B156	EA	1	2									6-1	2A3H2
X2	H									*	C073WASHER, LOCK. SAME AS B147	EA	1	2									6-1	2A3H2
X2	H									*	C074NUT, PLAIN; HEXAGON: SAME AS B148	EA	1	2									6-1	2A3H2

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X1	H									D	C075PANEL, REAR 14031, SMD633016-1	EA	1	1									6-1	2A3MP1
X2	H		5935-898-0494							D	C076SCREW LOCK ASSEMBLY: 71468,	EA	1	4									6-1	2A3MP2
X2	H		5935-898-0494							D	C077SCREW LOCK ASSEMBLY: SAME AS C076	EA	1	REF									6-1	2A3MP3
X2	H		5935-898-0494							D	C078SCREW LOCK ASSEMBLY. SAME AS C076	EA	1	REF									6-1	2A3MP4
X2	H		5935-898-0494							D	C079SCREW LOCK ASSEMBLY: SAME AS C076	EA	1	REF									6-1	2A3MP5
X2	H		5935-724-7159							D	C080SCREW LOCK ASSEMBLY: 71468; D20419-16	EA	1	2									6-1	2A3MP7
X2	H		5935-724-7159							D	C081SCREW LOCK ASSEMBLY: SAME AS C080	EA	1	REF									6-1	2A3MP8
-			5961-102-5179							D	C082SEMICONDUCTOR DEVICE, DIODE:	EA	1	2				*	2	2	10	4		2A3CR1
P	H										33173, 1N1614												6-1	
P	H		5961-102-5179							D	C083SEMICONDUCTOR DEVICE, DIODE: SAME AS C082	EA	1	REF									6-1	2A3CR2
X2	H									D	C084SHIELD, RADIO FPEQUENCY: 14031; SMC632903	EA	1	1									6-1	2A3MP11
X2	H									*	C085SCREW, MACHINE: SAME AS B281	EA	1	8									6-1	2A3H8
X2	H									*	C086WASHER, LOCK: SAME AS B205	EA	1	8									6-1	2A3H8

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE									(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL							(3)				DS			GS			1 YR ALW PER	DEPOT MAINT		
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	100 EQUIP. CNTGCY	ALW. PER 100 EQUIP	(A) FIGURE NUMBER	(B) ITEM OR NUMBER
X2	H									*	C087NUT, PLAIN, HEXAGON: SAME AS B206	EA	1	8									6-1	2A3H8
X2	H		5935-783-9133							D	C088STRAIGHT CLAMP,DEEP: 71468; DA24658	EA	1	1									6-1	2A3MP6
X2	H									D	C089TERMINAL, LUG: 79963; 505BRSHOTTIN	EA	1	1									6-1	2A3MP12
P	H		5950-239-2134							D	C090TRANSFORMER, POWER: 14031; C3133	EA	1	1				*	*	*	8	3	6-1	2A3T1
X2	H									*	C091SCREW, MACHINE: SAME AS C038	EA	1	4									6-1	2A3H4
X2	H									*	C092WASHER, FLAT: SAME AS B257	EA	1	8									6-1	2A3H4
X2	H									*	C093WASHER, LOCK: SAME AS B392	EA	1	4									6-1	2A3H4
X2	H									*	C094NUT, PLAIN, HEXAGON: SAME AS B391	EA	1	4									6-1	2A3H4
P	H									D	C095TRANSISTOR: 04713; 2N297A	EA	1	2				*	2	2	16	8	6-1	2A3Q1
P	H									D	C096TRANSISTOR: SAME AS C095	EA	1	REF									6-1	2A3Q2
X2	H		5340-964-2555							C	C097CLAMP, LOOP: 09922; HP6N	EA	1	2									6-1	2MP1
X2	H									*	C098SCREW, MACHINE: SAME AS B239	EA	1	1									6-1	2H1

REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1) (A) SOURCE CD	(1) (B) MAINT CD	(1) (C) REC CODE	(2) FEDERAL STOCK NUMBER	MODEL 1	MODEL 2	MODEL 3	MODEL 4	MODEL 5	MODEL 6	IND CD	(3) DESCRIPTION	(4) UNIT OF ISSUE	(5) IN UN PK	(6) INC IN UNIT	(7) 30 DAY MAINT. ALW. DS (A) 1-20	DS (B) 21-50	DS (C) 51-100	GS (A) 1-20	GS (B) 21-50	GS (C) 51-100	(8) 1 YR ALW PER 100 EQUIP. CNTGCY	(9) DEPOT MAINT ALW. PER 100 EQUIP	(10) ILLUSTRATIONS (A) FIGURE NUMBER	(10) (B) ITEM OR NUMBER
X2	H									*	C099WASHER, FLAT: SAME AS B156	EA	1	1									6-1	2H1
X2	H									*	C100WASHER, FLAT: SAME AS B156	EA	1	1									6-1	2H1
X2	H									*	C101NUT, PLAIN, HEXAGON: SAME AS B148	EA	1	1									6-1	2H1
X2	H									C	C102CLAMP, LOOP: SAME AS A103	EA	1	REF									6-1	2MP2
X2	H									*	C103SCREW, MACHINE: SAME AS B239	EA	1	REF									6-1	2H1
X2	H									*	C104WASHER, FLAT: SAME AS B156	EA	1	REF									6-1	2H1
X2	H									*	C105WASHER, FLAT: SAME AS B156	EA	1	REF									6-1	2H1
X2	H									*	C106NUT, PLAIN, HEXAGON: SAME AS B148	EA	1	REF									6-1	2H1
M	D									C	C107PLATE, IDENTIFICATION: 80063; SMC633022	EA	1	1									6-1	2MP3
X2	H									*	C108SCREW, MACHINE: 70318; |4-40X3-16PANHDCRES	EA	1	2									6-1	2H2
X2	H									*	C109WASHER, LOCK: SAME AS B205	EA	1	2									6-1	2H2
X2	H		5340-937-0302							C	C110NUT SPACER, PLATE: 83330; 2331	EA	1	1									6-1	2MP4

(1)			REPAIRS PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE								(4)	(5)	(6)	(7) 30 DAY MAINT. ALW.						(8)	(9)	(10) ILLUSTRATIONS	
			(2)	MODEL						(3)				DS			GS			1 YR ALW PER 100	DEPOT MAINT ALW.	(A)	(B)
(A) SOURCE CD	(B) MAINT CD	(C) REC CODE	FEDERAL STOCK NUMBER	1	2	3	4	5	6	IND CD	DESCRIPTION	UNIT OF ISSUE	IN UN PK	INC IN UNIT	(A) 1-20	(B) 21-50	(C) 51-100	(A) 1-20	(B) 21-50	(C) 51-100	EQUIP. CNTGCY	PER 100 EQUIP	FIGURE NUMBER	ITEM OR NUMBER
X2	H									*	C111SCREW, MACHINE: SAME AS B146	EA	1	1									6-1	2H1
X2	H									*	C112SCREW, MACHINE CRES: 70318, 6-32X5-16TRUSSHD	EA	1	1									6-1	2H1
X2	H		6115-065-8530							C	C113STRAP, TIE DOWN: 59730; TY535M	EA	1	5									6-1	2MP5
X2	H		6115-065-8530							C	C114STRAP, TIE DOWN: SAME AS C113	EA	1	REF									6-1	2MP6
X2	H		6115-065-8530							C	C115STRAP, TIE DOWN: SAME AS C113	EA	1	REF									6-1	2MP7
X2	H		6115-065-8530							C	C116STRAP, TIE DOWN: SAME AS C113	EA	1	REF									6-1	2MP8
X2	H		6115-065-8530							C	C117STRAP, TIE DOWN: SAME AS C113	EA	1	REF									6-1	2MP9

SECTION III. FEDERAL STOCK NUMBER CROSS-REFERENCE INDEX

Federal Stock Number	Figure No.	Reference Designation	Federal Stock Number	Figure No.	Reference Designation
5305-987-0119	6-1(2)	2A1H2	5905-114-5428	6-7	2A2ASR2
5310-809-8135	6-1	2A2A9H1	5905-114-5489	6-7	2A2A5R5
5310-050-0458	6-1	2H1	5905-141-0591	6-3	2A2A1R3
5310-819-9188	6-1	2A2A1OH2	5905-141-0595	6-3	2A2A1R28
5310-866-4638	6-1	2A2A17H2	5905-141-0596	6-3	2A2AIR50
5310-980-6155	6-1	2A2A9H4	5905-141-0599	6-/	2A2A5R6
5315-271-3045	6-1	2A2A8AIMP2	5905-141-0600	6-9	2A2A7R12
5330-883-9455	6-1	2A1H2	5905-141-1116	6-3	2A2A1R34
5340-915-4839	6-1	2A2MP26	5905-141-1168	6-3	2A2AIR51
5340-937-0302	6-1	2MP4	5905-171-2004	6-3	2A2A1R26
5340-964-2555	6-1	2MP1	5905-185-6580	6-1	2A2R3
5355-588-3095	6-1	2AIMP6	5905-190-8881	6-9	2A2A7R29
5805-133-9024	6-1	2A2DS1	5905-190-8883	6-3	2A2AIR1
5805-806-1856	6-1	2A3MP9	5905-192-0390	6-8	2A2A6R53
5905-068-6962	6-8	2A2A6R62	5905-192-0667	6-7	2A2A5R3
5905-104-8339	6-7	2A2A5R1	5905-192-3971	6-3	2A2A1R24
5905-104-8348	6-3	2A2A1R32	5905-195-5571	6-3	2A2AIR41
5905-106-9344	6-3	2A2AIR10	5905-195-6761	6-3	2A2AIR16
5905-106-9345	6-3	2A2AIR29	5905-195-6791	6-1	2A2R4
5905-110-0196	6-3	2A2AIR16	5905-195-6806	6-3	2A2A1R2
5905-111-4858	6-8	2A2A6R65	5905-252-4018	6-3	2A2AIR9
5905-114-5388	6-3	2A2A1R8	5905-279-1757	6-7	2A2A5R18

Federal Stock Number	Figure No.	Reference Designation	Federal Stock Number	Figure No.	Reference Designation
5905-279-1979	6-1	2A2R1	5910-717-0167	6-4	2A2A2C8
5905-279-2522	6-8	2A2A6R33	5910-728-4093	6-8	2A2A6C6
5905-279-2616	6-8	2A2A6R20	5910-786-2208	6-3	2A2A1C7
5905-279-3499	6-9	2A2A7R27	5910-810-4849	6-3	2A2AIC10
5905-279-3502	6-4	2A2A2R22	5910-827-1209	6-3	2A2AIC11
5905-279-3503	6-5	2A2A3R27	5910-827-1218	6-3	2A2A1C13
5905-279-3513	6-3	2A2AIR14	5910-857-2361	6-1	2A2C1
5905-279-3514	6-8	2A2A6R43	5910-901-9870	6-4	2A2A2C2
5905-402-9059	6-1	2A2R2	5910-902-0335	6-8	2A2A6C8
5905-764-3239	6-8	2A2A6R1	5910-925-6200	6-3	2A2A1C3
5905-993-7406	6-3	2A2A1R7	5910-925-6508	6-3	2A2AIC1
5905-988-0604	6-8	2A2A6R4	5910-950-1477	6-7	2A2A5C1
5905-990-2832	6-8	2A2A6R14	5910-952-7046	6-9	2A2A7C19
5910-045-5432	6-8	2A2A6C7	5910-954-5500	6-5	2A2A3C4
5910-054-0765	6-8	2A2A6C19	5910-954-5504	6-5	2A2A3C3
5910-082-5032	6-9	2A2A7C14	5910-963-8069	6-3	2A2AIC12
5910-247-2075	6-5	2A2A3C17	5910-965-9441	6-3	2A2A1C2
5910-269-3919	6-9	2A2A7C7	5910-991-1780	6-3	2A2AIC9
5910-401-2993	6-9	2A2A7C2	5920-013-9863	6-1	2A2XF3
5910-477-9305	6-3	2A2A1C8	5920-280-5062	6-1	2A2F3
5910-481-8591	6-3	2A2A1C6	5920-280-8344	6-1	2A2F4
5910-655-0137	6-8	2A2A6C13	5920-295-9602	6-1	2A2F1

Federal Stock Number	Figure No.	Reference Designation	Federal Stock Number	Figure No.	Reference Designation
5920-356-2185	6-8	2A2A6F1	5935-898-0494	6-1	2A3MP2
5920-881-6584	6-1	2A2XF1	5935-990-6219	6-9	2A2A7XY1
5930-133-8614	6-1(2)	2AIS9	5950-239-2134	6-1	2A3T1
5930-196-6813	6-1(2)	2A1S7	5950-883-9448	6-8	2A2A6L1
5930-196-6817	6-1(2)	2AIS11	5950-919-6480	6-8	2A2A6T1
5930-422-3421	6-1(2)	2A1S4	5955-177-1569	6-9	2A2A7Y1
5930-452-1279	6-1(2)	2AIS10	5955-238-9437	6-9	2A2A7Y3
5930-452-1280	6-1(2)	2AIS13	5955-900-4108	6-9	2A2A7Y2
5930-488-4763	6-1(2)	2A1S8	5960-497-9862	6-2	2AIAIV1
5930-655-1508	6-1	2AIS1	5961-059-1137	6-3	2A2AIMP4
5930-655-1523	6-1(2)	2A1S3	5961-102-5179	6-1	2A3CR1
5935-057-2690	6-1	2A3P2	5961-370-1651	6-3	2A2A1CR8
5935-481-7856	6-1	2A2XA1	5961-400-5375	6-3	2A2AICR10
5935-608-0518	6-1	2AIJ1	5961-556-2091	6-1	2A2CR1
5935-615-2420	6-1	2A3J4	5961-719-4355	6-3	2A2AICR9
5935-683-5888	6-1	2A3A2J1	5961-765-4612	6-3	2A2AICR1
5935-716-6572	6-1	2A3J3	5961-837-7262	6-3	2A2A1Q2
5935-724-7159	6-1	2A3MP7	5961-838-8888	6-8	2A2A6Q1
5935-783-9133	6-1	2A3MP6	5961-842-6937	6-3	2A2A1Q7
5935-835-0508	6-1	2A3P3	5961-853-0974	6-3	2A2A1CR3
5935-892-9035	6-1	2A3J1	5961-879-4069	6-3	2A2AIMP3
5935-897-4766	6-1	2A3J2	5961-892-3405	6-3	2A2AIQ1

Federal Stock Number	Figure No.	Reference Designation	Federal Stock Number	Figure No.	Reference Designation
5961-892-3492	6-3	2A2AICR11	6625-449-7736	6-4	2A2A2
5961-938-1084	6-3	2A2AISCR1	6625-497-9791	6-1	2A3A2
5961-944-3628	6-3	2A2AIMP5			
5961-985-5134	6-3	2A2A1Q3			
5962-071-6913	6-6	2A2A4Z5			
5962-105-4624	6-3	2A2A1Z7			
5962-344-4379	6-4	2A2A2Z11			
5962-410-0751	6-8	2A2A6Z2			
5962-420-3843	6-2	2AIAIZ1			
5962-789-3415	6-4	2A2A2Z1			
5999-441-9217	6-1	2A2A8			
6115-065-8530	6-1	2MP5			
6240-722-6467	6-1	2AIDS1			
6240-892-4420	6-1(2)	2AIDS2			
6625-435-7776	6-1	2			
6625-441-9295	6-9	2A2A7			
6625-441-9296	6-8	2A2A6			
6625-441-9297	6-6	2A2A4			
6625-441-9299	6-5	2A2A3			
6625-441-9300	6-3	2A2A1			
6625-449-7659	6-1(2)	2AIA1			
6625-449-7735	6-7	2A2A5			

By Order of the Secretary of the Army:

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:

VERNE L. BOWERS,
Major General, United States Army,
The Adjutant General.

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- Dir of Trans (1)
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- CONARC (2)
- AMC (1)
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- OS Maj Comd (2)
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- USASESS (10)
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- Fort Huachuca (5)
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- USAERDAA (2)
- USAERDAW (2)
- USACRREL (2)
- USA Dep (1)
- Sig Sec USA Dep (5)
- Sig Dep (5)
- Sig FLDMS (1)
- Ft Richardson (ECOM Ofc) (2)
- Army Dep (1) except
  - LBAD (7)
  - SAAD (30)
  - TOAD (14)
  - LEAD (7)
  - ATAD (10)
  - NAAD (3)
  - SVAD (3)
- 1st Cav Dn (2)
- USASTRATCOM-CONUS (3)
- USASTRATCOM-EUR (5)
- USASTRATCOM-SO (3)
- USASTRATCOM-A (3)
- USASTRATCOM-PAC (5)
- USASTRATCOM-SIG-GP-T (3)
- 29th Sig Gp (3)
- 1st Sig Bde (3)
- USACOMZEUR (3)
- Umts org under fol TOE
  - (2 cys each Unit)
  - 11-15
  - 11-16
  - 11-18
  - 11-75
  - 11-85
  - 11-95
  - 11-97
  - 11-117
  - 11-137
  - 11-158
  - 11-302
  - 11-327
  - 11-500 (AA-AC)
  - 29-119
  - 29-126
  - 29-134
  - 29-136

USNG None.

USAR: None.

For explanation of abbreviations used, see AR 310 - 50.

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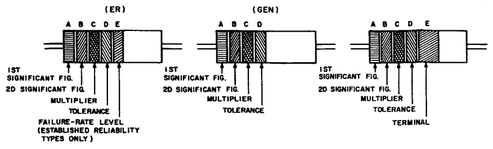


COLOR CODE MARKING FOR COMPOSITION TYPE RESISTORS.

COLOR-CODE MARKING FOR FILM-TYPE RESISTORS.

TABLE I

COLOR CODE FOR COMPOSITION TYPE AND FILM TYPE RESISTORS.

BAND A		BAND B		BAND C		BAND D		BAND E		
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)	COLOR	FAILURE RATE LEVEL	TERM.
BLACK	0	BLACK	0	BLACK	1			BROWN	M=1.0	
BROWN	1	BROWN	1	BROWN	10			RED	P=0.1	
RED	2	RED	2	RED	100			ORANGE	R=0.01	
ORANGE	3	ORANGE	3	ORANGE	1,000			YELLOW	S=0.001	
YELLOW	4	YELLOW	4	YELLOW	10,000	SILVER	±10 (COMP. TYPE ONLY)	WHITE	.....	SOLDERABLE
GREEN	5	GREEN	5	GREEN	100,000	GOLD	±5			
BLUE	6	BLUE	6	BLUE	1,000,000	RED	±2 (NOT APPLICABLE TO ESTABLISHED RELIABILITY)			
PURPLE (VIOLET)	7	PURPLE (VIOLET)	7							
GRAY	8	GRAY	8	SILVER	0.01					
WHITE	9	WHITE	9	GOLD	0.1					

BAND A — THE FIRST SIGNIFICANT FIGURE OF THE RESISTANCE VALUE (BANDS A THRU D SHALL BE OF EQUAL WIDTH.)

BAND B — THE SECOND SIGNIFICANT FIGURE OF THE RESISTANCE VALUE.

BAND C — THE MULTIPLIER (THE MULTIPLIER IS THE FACTOR BY WHICH THE TWO SIGNIFICANT FIGURES ARE MULTIPLIED TO YIELD THE NOMINAL RESISTANCE VALUE.)

BAND D — THE RESISTANCE TOLERANCE.

BAND E — WHEN USED ON COMPOSITION RESISTORS, BAND E INDICATES ESTABLISHED RELIABILITY FAILURE-RATE LEVEL (PERCENT FAILURE PER 1,000 HOURS). ON FILM RESISTORS, THIS BAND SHALL BE APPROXIMATELY 1-1/2 TIMES THE WIDTH OF OTHER BANDS, AND INDICATES TYPE OF TERMINAL.

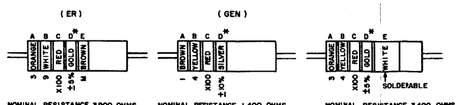
RESISTANCES IDENTIFIED BY NUMBERS AND LETTERS (THESE ARE NOT COLOR CODED)

SOME RESISTORS ARE IDENTIFIED BY THREE OR FOUR DIGIT ALPHA NUMERIC DESIGNATORS. THE LETTER R IS USED IN PLACE OF A DECIMAL POINT WHEN FRACTIONAL VALUES OF AN OHM ARE EXPRESSED. FOR EXAMPLE:

2R7 = 2.7 OHMS 10R0 = 10.0 OHMS

FOR WIRE-WOUND-TYPE RESISTORS COLOR CODING IS NOT USED, IDENTIFICATION MARKING IS SPECIFIED IN EACH OF THE APPLICABLE SPECIFICATIONS.

EXAMPLES OF COLOR CODING



NOMINAL RESISTANCE 3,900 OHMS RESISTANCE TOLERANCE ±5% FAILURE RATE LEVEL M

NOMINAL RESISTANCE 1,400 OHMS RESISTANCE TOLERANCE ±10%

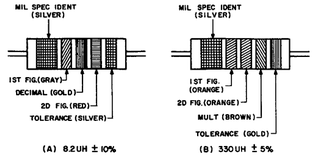
NOMINAL RESISTANCE 3,400 OHMS RESISTANCE TOLERANCE ±5% TERMINAL SOLDERABLE

COMPOSITION-TYPE RESISTORS

FILM-TYPE RESISTORS

* IF BAND D IS OMITTED, THE RESISTOR TOLERANCE IS ±20% AND THE RESISTOR IS NOT MIL-STD.

A. COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS.



COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES. AT A, AN EXAMPLE OF OF THE CODING FOR AN 8.2UH CHOKE IS GIVEN. AT B, THE COLOR BANDS FOR A 330UH INDUCTOR ARE ILLUSTRATED.

TABLE 2

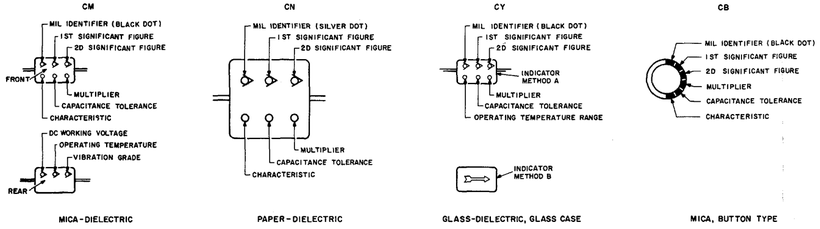
COLOR CODING FOR TUBULAR ENCAPSULATED R.F. CHOKES.

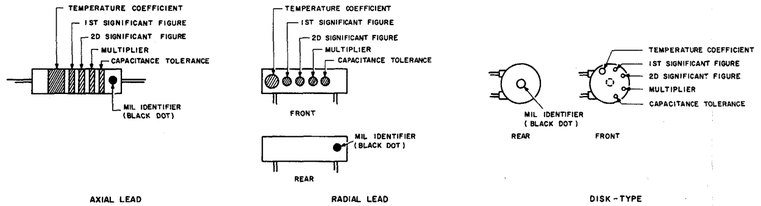
COLOR	SIGNIFICANT FIGURE	MULTIPLIER	INDUCTANCE TOLERANCE (PERCENT)
BLACK	0	1	
BROWN	1	10	1
RED	2	100	2
ORANGE	3	1,000	3
YELLOW	4		
GREEN	5		
BLUE	6		
VIOLET	7		
GRAY	8		
WHITE	9		
NONE			20
SILVER			10
GOLD	DECIMAL POINT		5

MULTIPLIER IS THE FACTOR BY WHICH THE TWO COLOR FIGURES ARE MULTIPLIED TO OBTAIN THE INDUCTANCE VALUE OF THE CHOKE COIL.

B. COLOR CODE MARKING FOR MILITARY STANDARD INDUCTORS.

CAPACITORS, FIXED, VARIOUS-DIELECTRICS, STYLES CM, CN, CY, AND CB.





C. COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS.

TABLE 3 — FOR USE WITH STYLES CM, CN, CY AND CB.

COLOR	MIL ID	1ST SIG FIG.	2D SIG FIG.	MULTIPLIER	CAPACITANCE TOLERANCE				CHARACTERISTIC			2	DC WORKING VOLTAGE	OPERATING TEMP. RANGE	VIBRATION GRADE
					CM	CN	CY	CB	CM	CN	CB		CM	CY, CM	CM
BLACK	CM, CY, CB	0	0	1			±20%	±20%		A				-55°C TO +70°C	10-55 Hz
BROWN		1	1	10					B	E	B				
RED		2	2	100	±2%		±2%	±2%	C					-55°C TO +85°C	
ORANGE		3	3	1,000		±30%			D		D		300		
YELLOW		4	4	10,000					E					-55°C TO +125°C	10-2,000Hz
GREEN		5	5		±5%				F				500		
BLUE		6	6											-55°C TO +50°C	
PURPLE (VIOLET)		7	7												
GREY		8	8												
WHITE		9	9												
GOLD				0.1			±5%	±5%							
SILVER	CN				±10%	±10%	±10%	±10%							

TABLE 4 — TEMPERATURE COMPENSATING, STYLE CC.

COLOR	TEMPERATURE COEFFICIENT[4]	1ST SIG FIG.	2D SIG FIG.	MULTIPLIER[1]	CAPACITANCE TOLERANCE		MIL ID
					CAPACITANCES OVER 10 UUF	CAPACITANCES 10 UUF OR LESS	
BLACK	0	0	0	1		±2.0 UUF	CC
BROWN	-30	1	1	10	±1%		
RED	-80	2	2	100	±2%	±0.25 UUF	
ORANGE	-150	3	3	1,000			
YELLOW	-220	4	4				
GREEN	-330	5	5		±5%	±0.5 UUF	
BLUE	-470	6	6				
PURPLE (VIOLET)	-750	7	7				
GREY		8	8	0.01			
WHITE		9	9	0.1	±10%		
GOLD	+100					±1.0 UUF	
SILVER							

1. THE MULTIPLIER IS THE NUMBER BY WHICH THE TWO SIGNIFICANT (SIG) FIGURES ARE MULTIPLIED TO OBTAIN THE CAPACITANCE IN UUF.
2. LETTERS INDICATE THE CHARACTERISTICS DESIGNATED IN APPLICABLE SPECIFICATIONS: MIL-C-5, MIL-C-25D, MIL-C-11272B, AND MIL-C-10950C RESPECTIVELY.
3. LETTERS INDICATE THE TEMPERATURE RANGE AND VOLTAGE-TEMPERATURE LIMITS DESIGNATED IN MIL-C-11015D.
4. TEMPERATURE COEFFICIENT IN PARTS PER MILLION PER DEGREE CENTIGRADE.

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Figure 6-12. Resistor, inductor, and capacitor color codes.

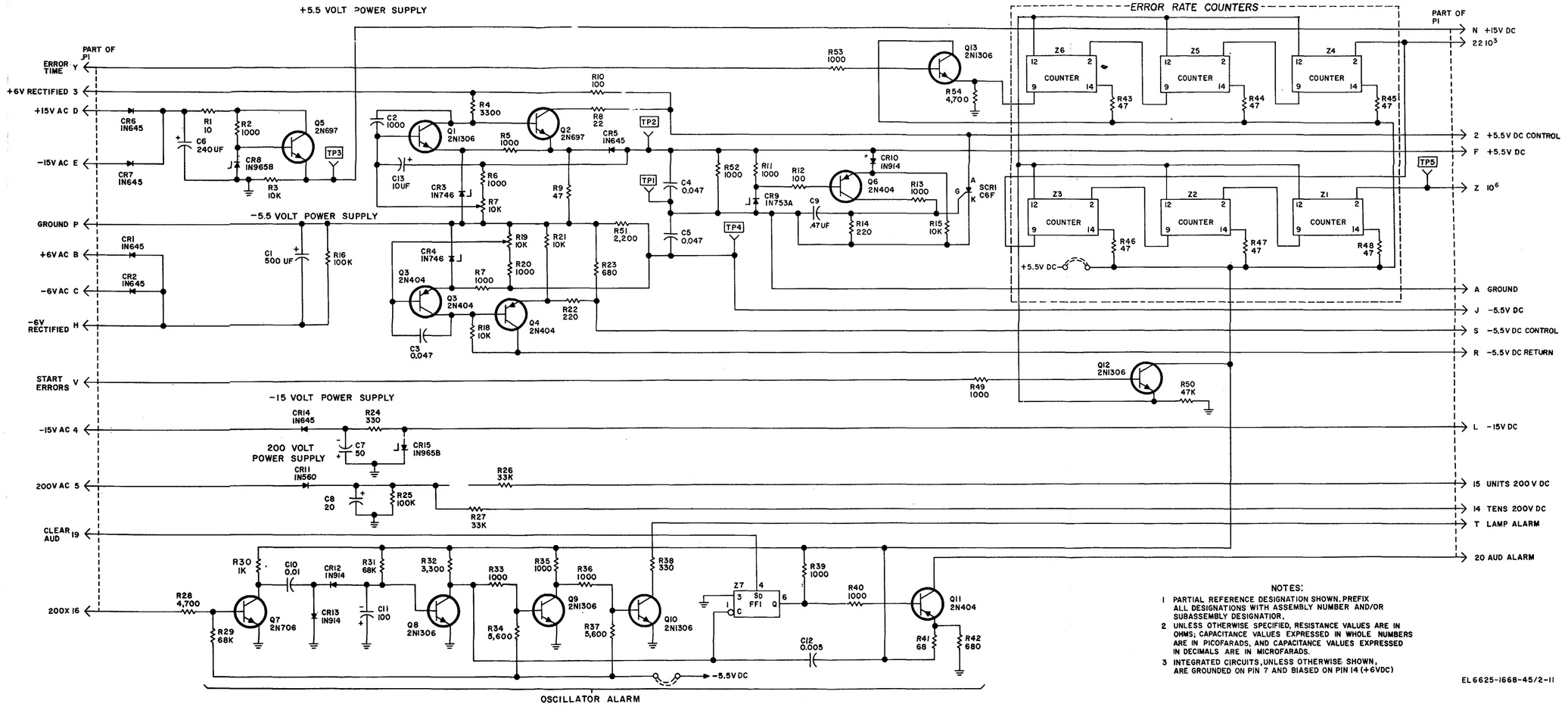
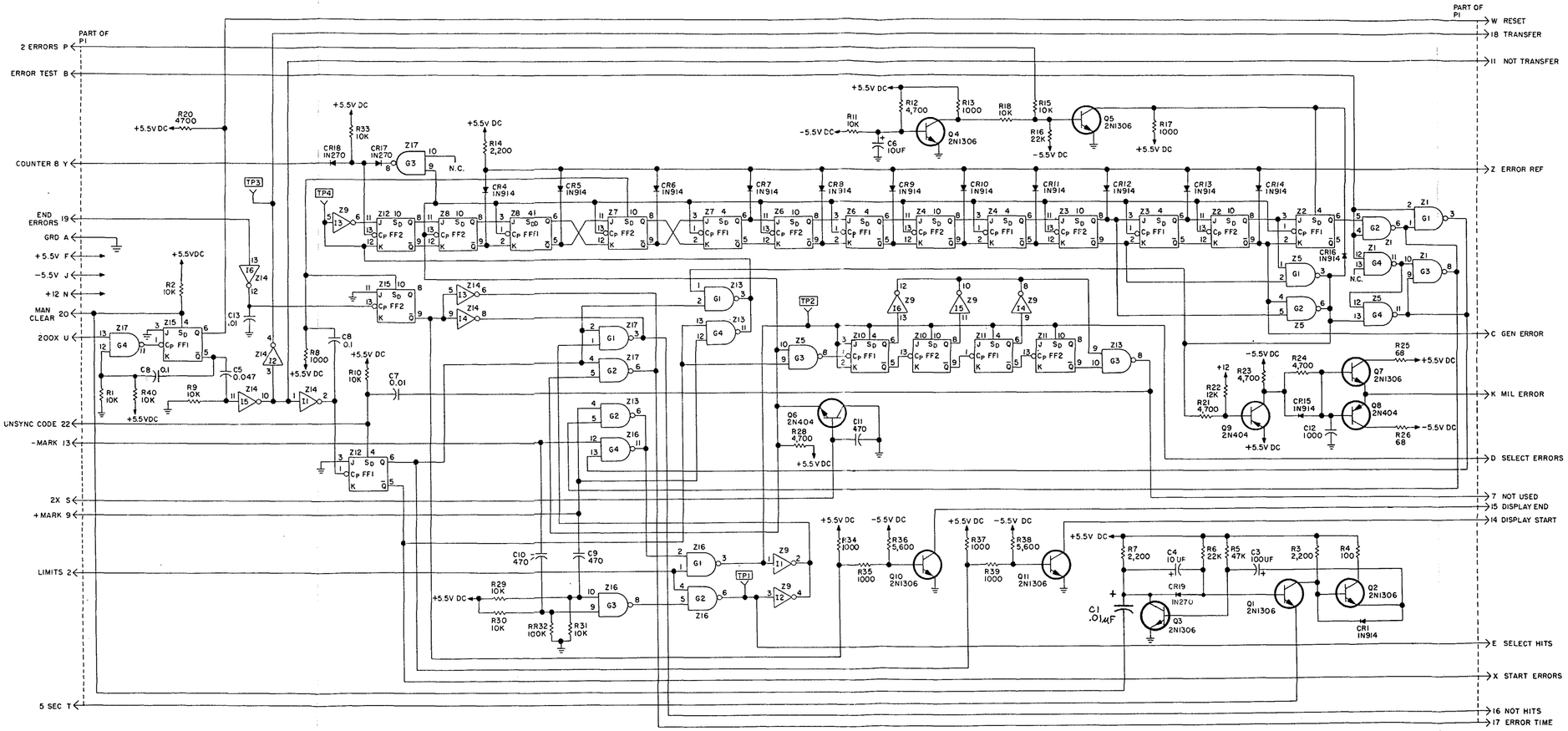


Figure 6-13. Error counter and oscillator alarm circuits 2A2A1, schematic diagram.



NOTES

1. PARTIAL REFERENCE DESIGNATION SHOWN. PREFIX ALL DESIGNATIONS WITH ASSEMBLY NUMBER AND/OR SUBASSEMBLY DESIGNATION.
2. UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS; CAPACITANCE VALUES EXPRESSED IN WHOLE NUMBERS ARE IN PICOFARADS, AND CAPACITANCE VALUES EXPRESSED IN DECIMALS ARE IN MICROFARADS.
3. INTEGRATED CIRCUITS, UNLESS OTHERWISE SHOWN, ARE GROUNDED ON PIN 7 AND BIASED ON PIN 14 (+5.5 VDC).

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Figure 6-14. Error code generator 2A2A2, schematic diagram.

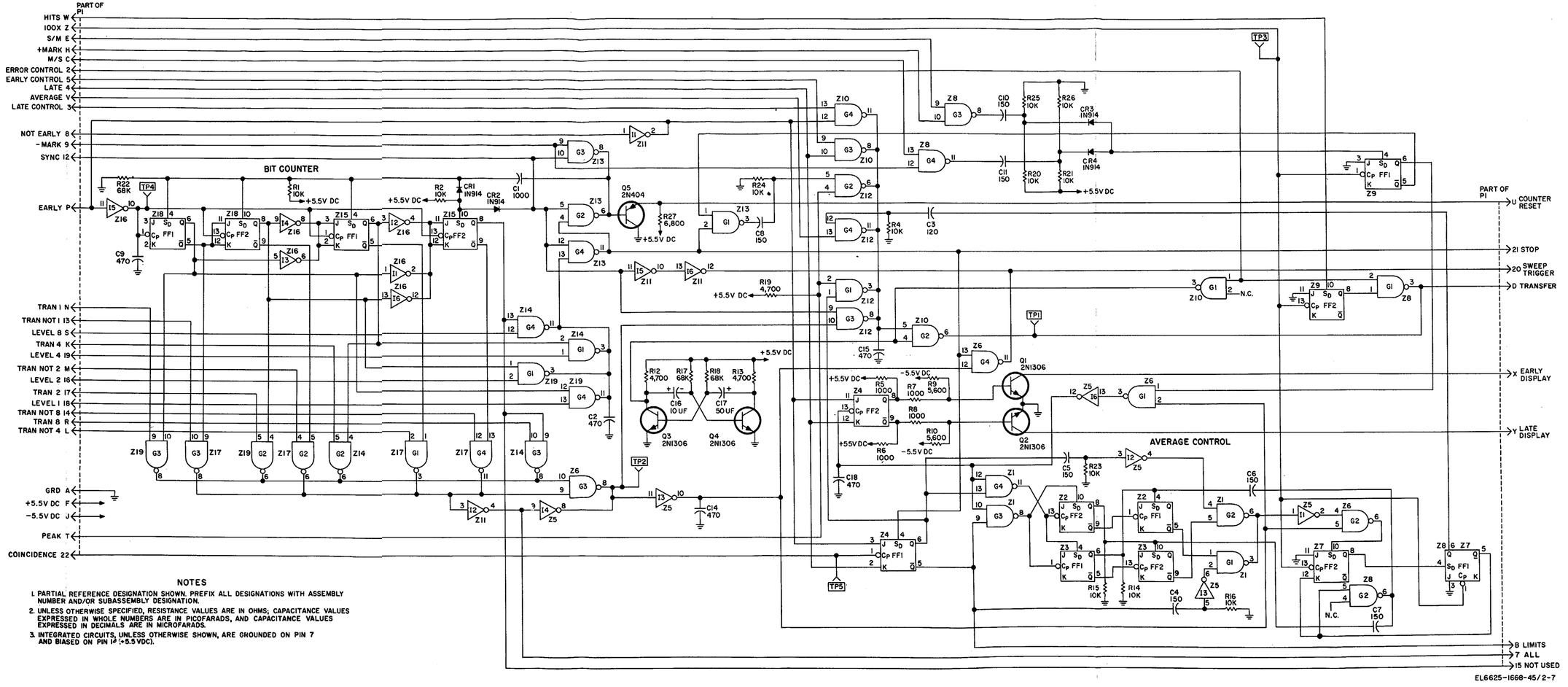


Figure 6-15. Transfer control and bit counter 2A2A3, schematic diagram.

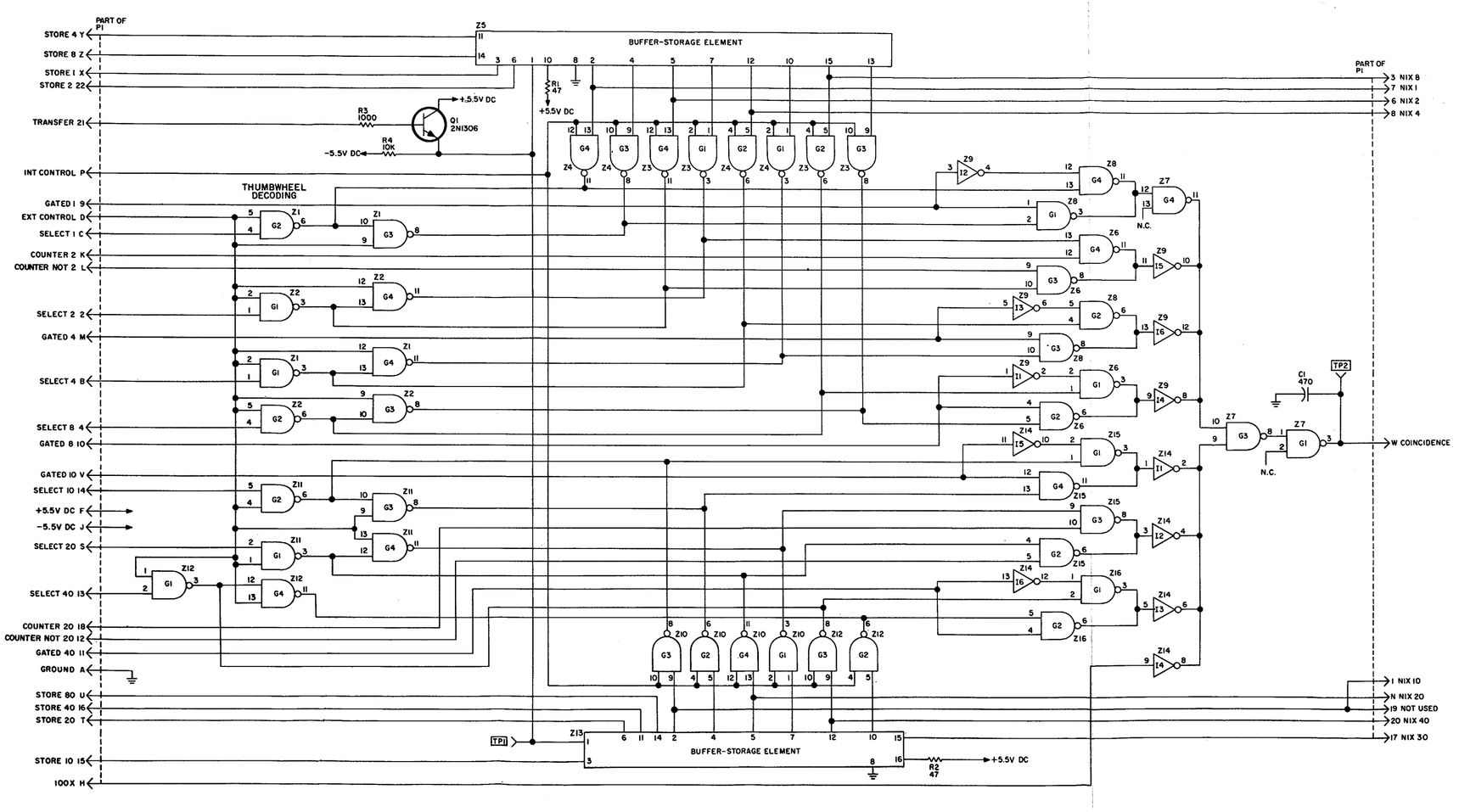
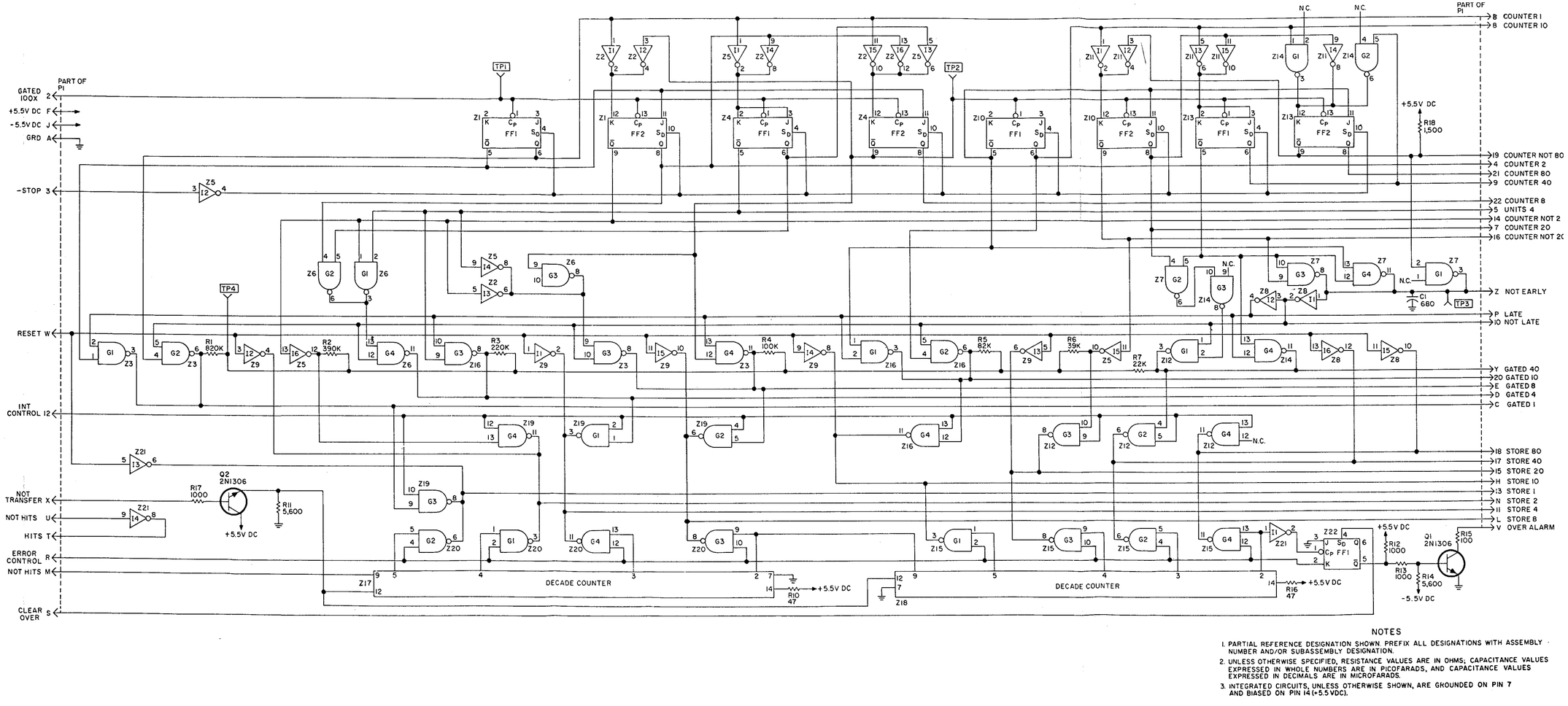


Figure 6-16. Peak detector 2A2A4, schematic diagram.



NOTES

1. PARTIAL REFERENCE DESIGNATION SHOWN. PREFIX ALL DESIGNATIONS WITH ASSEMBLY NUMBER AND/OR SUBASSEMBLY DESIGNATION.
2. UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS; CAPACITANCE VALUES EXPRESSED IN WHOLE NUMBERS ARE IN PICOFARADS, AND CAPACITANCE VALUES EXPRESSED IN DECIMALS ARE IN MICROFARADS.
3. INTEGRATED CIRCUITS, UNLESS OTHERWISE SHOWN, ARE GROUNDED ON PIN 7 AND BIASED ON PIN 14 (+5.5 VDC).

Figure 6-17. Units/tens decades 2A2A5, schematic diagram.

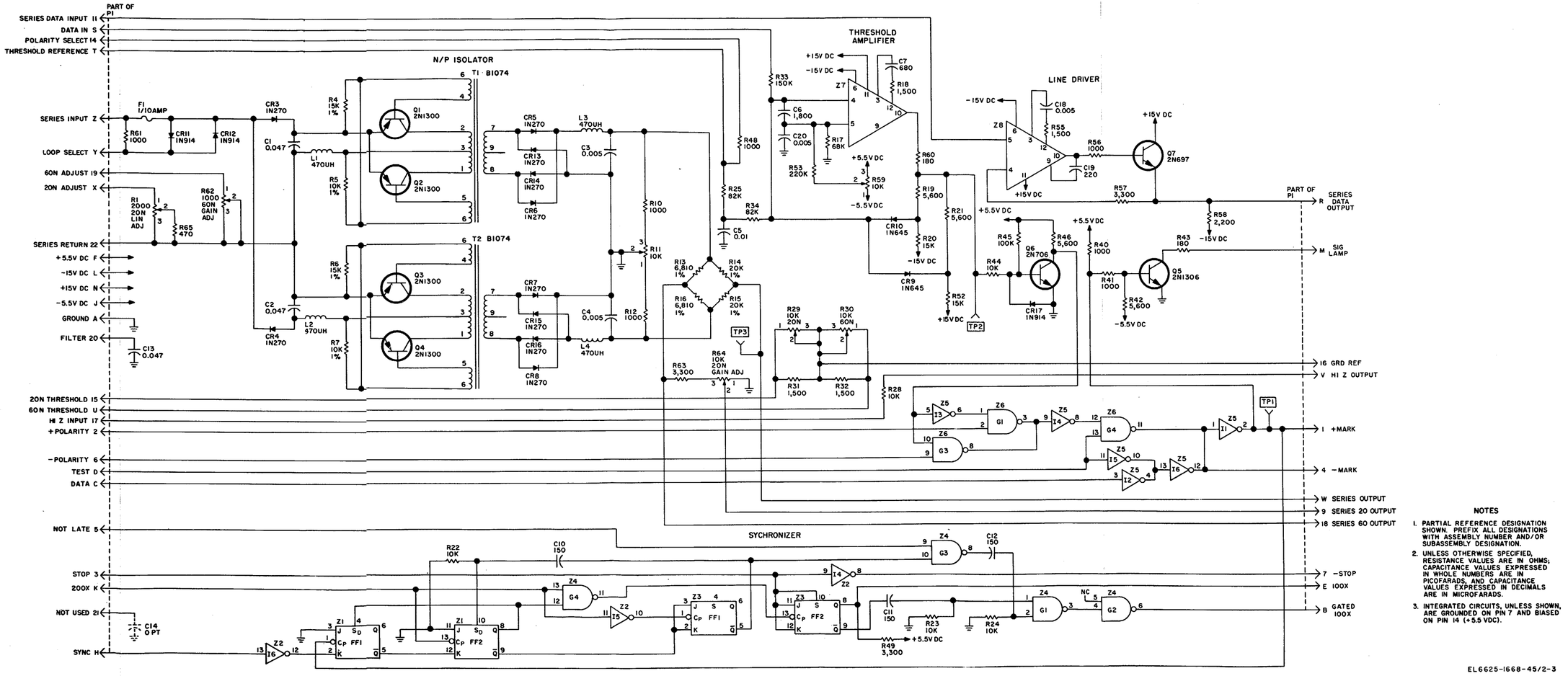
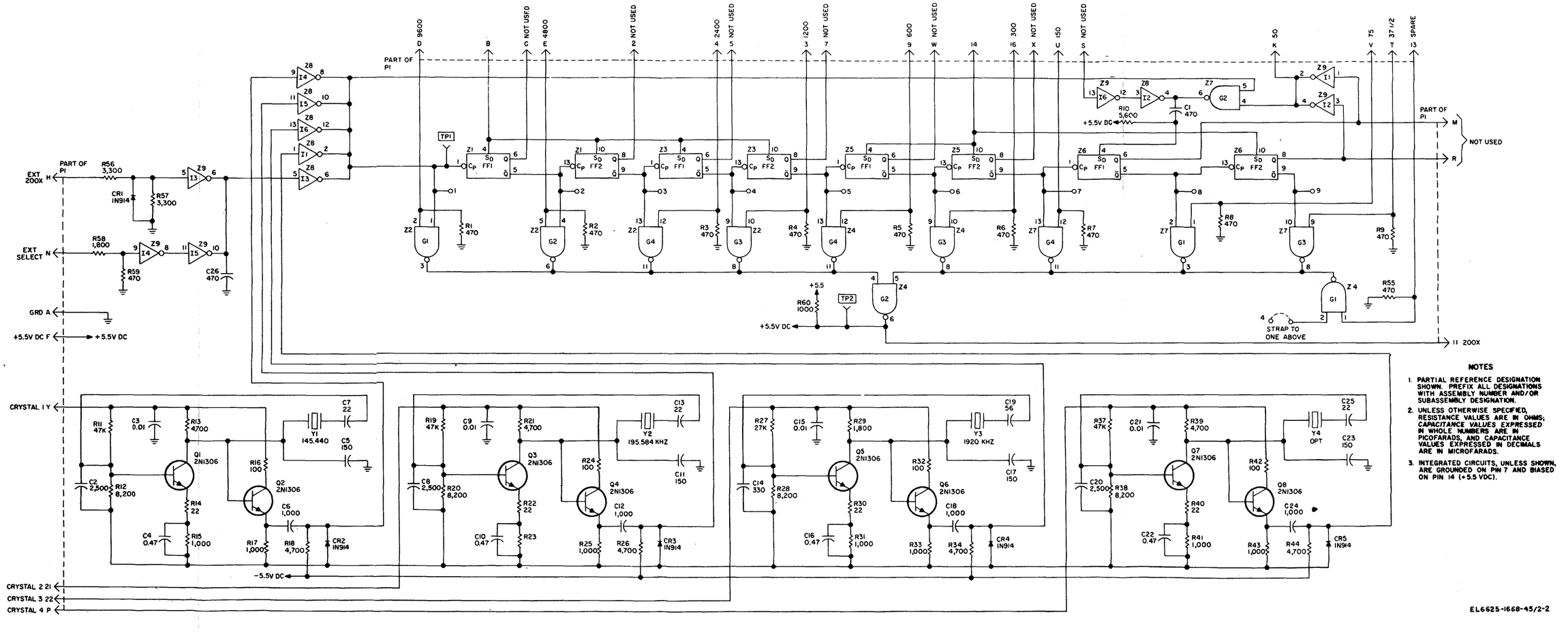


Figure 6-18. Input circuits 2A2A6, schematic diagram.



NOTES

1. PARTIAL REFERENCE DESIGNATION SHOWN. PREFIX ALL DESIGNATIONS WITH ASSEMBLY NUMBER AND/OR SUBASSEMBLY DESIGNATION.
2. UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS; CAPACITANCE VALUES EXPRESSED IN WHOLE NUMBERS ARE IN PICOFARADS, AND CAPACITANCE VALUES EXPRESSED IN DECIMALS ARE IN MICROFARADS.
3. INTEGRATED CIRCUITS, UNLESS SHOWN, ARE GROUNDED ON PIN 7 AND BIASED ON PIN 14 (+5.5 VDC).

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Figure 6-19. Oscillator and time base 2A2A7, schematic diagram.

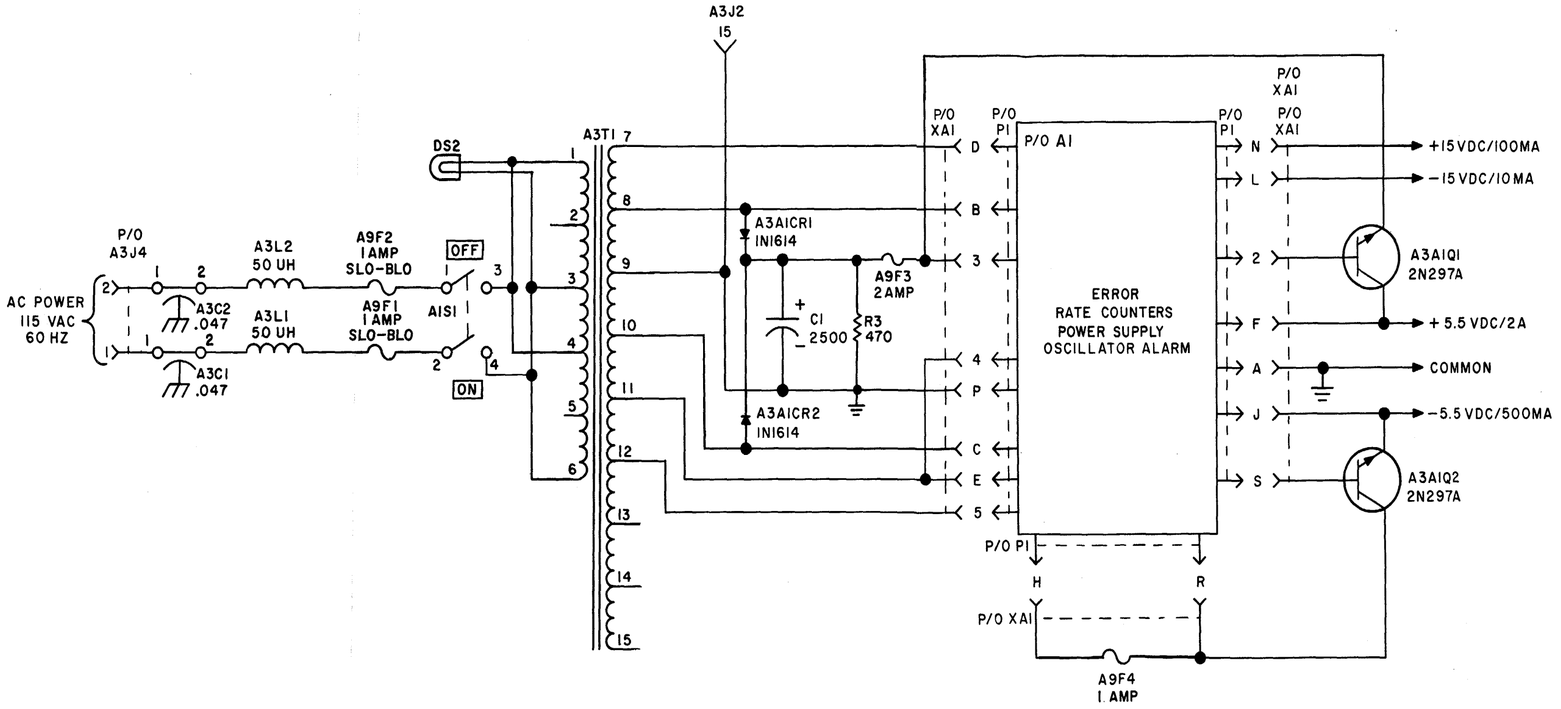

Figure 6-20.① TS-2862/GGm-15(V), overall schematic diagram (sheet 1 of 3).

NOTES

1. 2A1 DESIGNATION REFERS TO FRONT PANEL; 2A3 DESIGNATION REFERS TO REAR PANEL; ALL OTHER DESIGNATIONS TO BE PREFIXED BY 2A2, CHASSIS.
2. ALL RESISTANCE VALUES ARE IN OHMS; CAPACITANCE VALUES ARE IN MICROFARADS.
3. ALL ROTARY SWITCHES ARE SHOWN IN EXTREME COUNTER CLOCKWISE POSITION AS VIEWED FRONT KNOB END.
4. ▭ DENOTES PANEL MARKING.

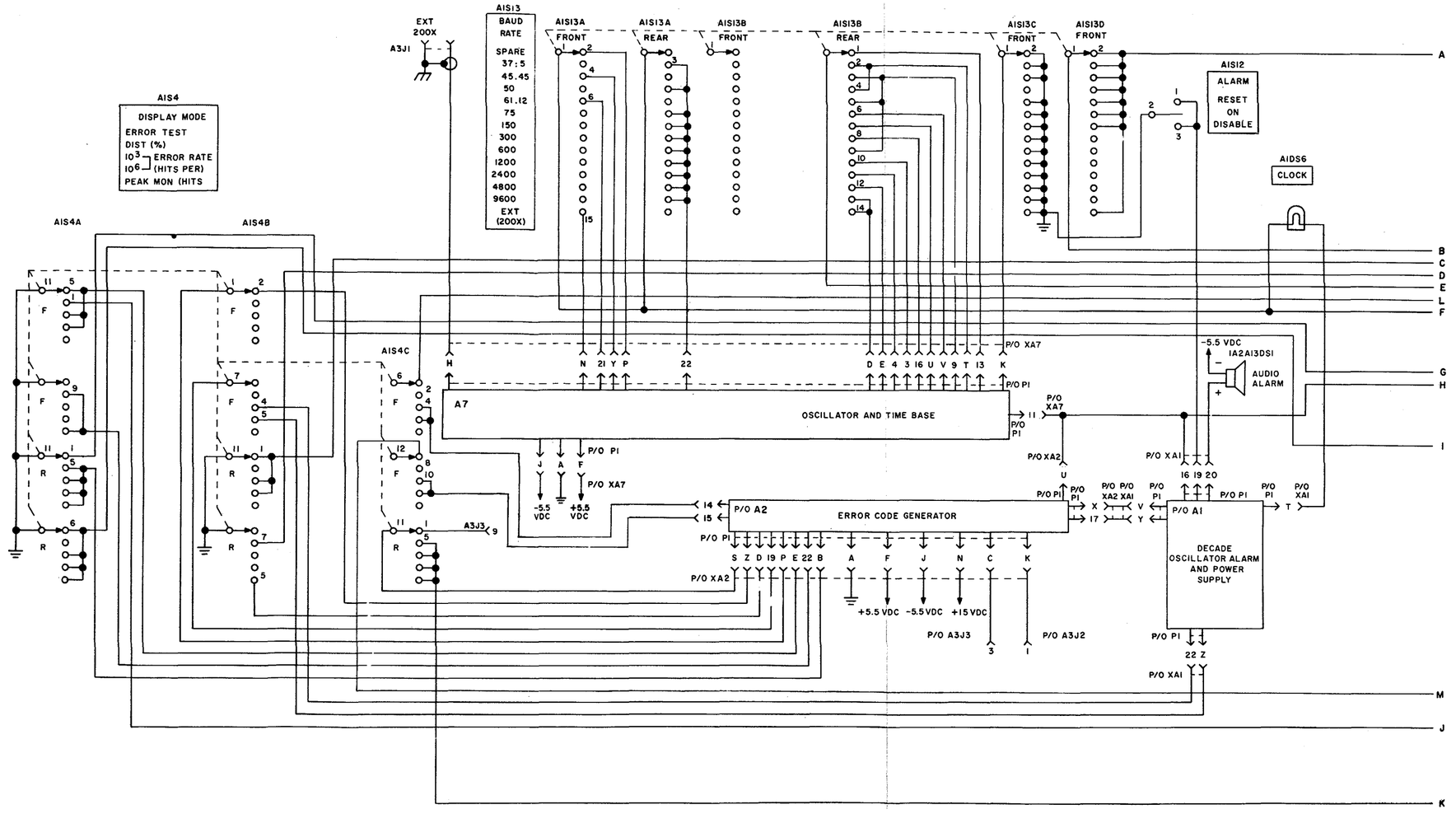

Figure 6-20② TS-2862/GGm-15(V), overall schematic diagram (sheet 1 of 3).

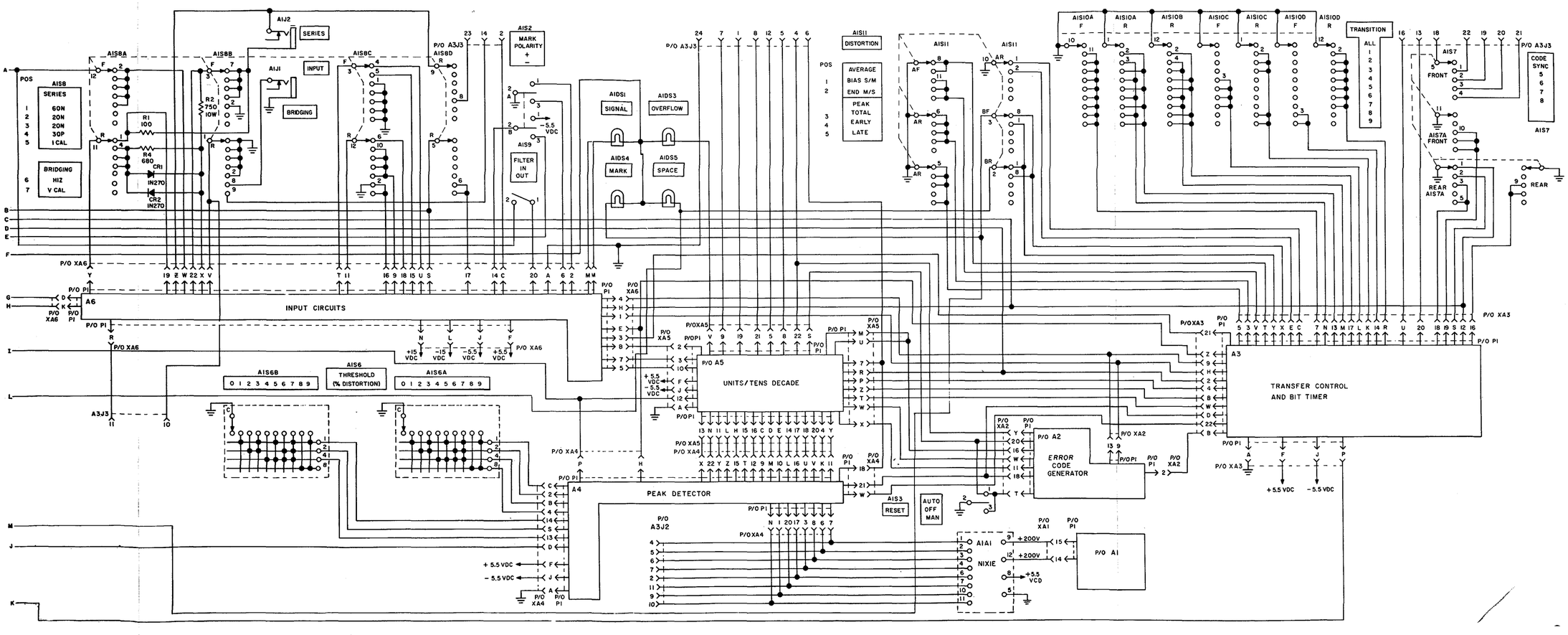

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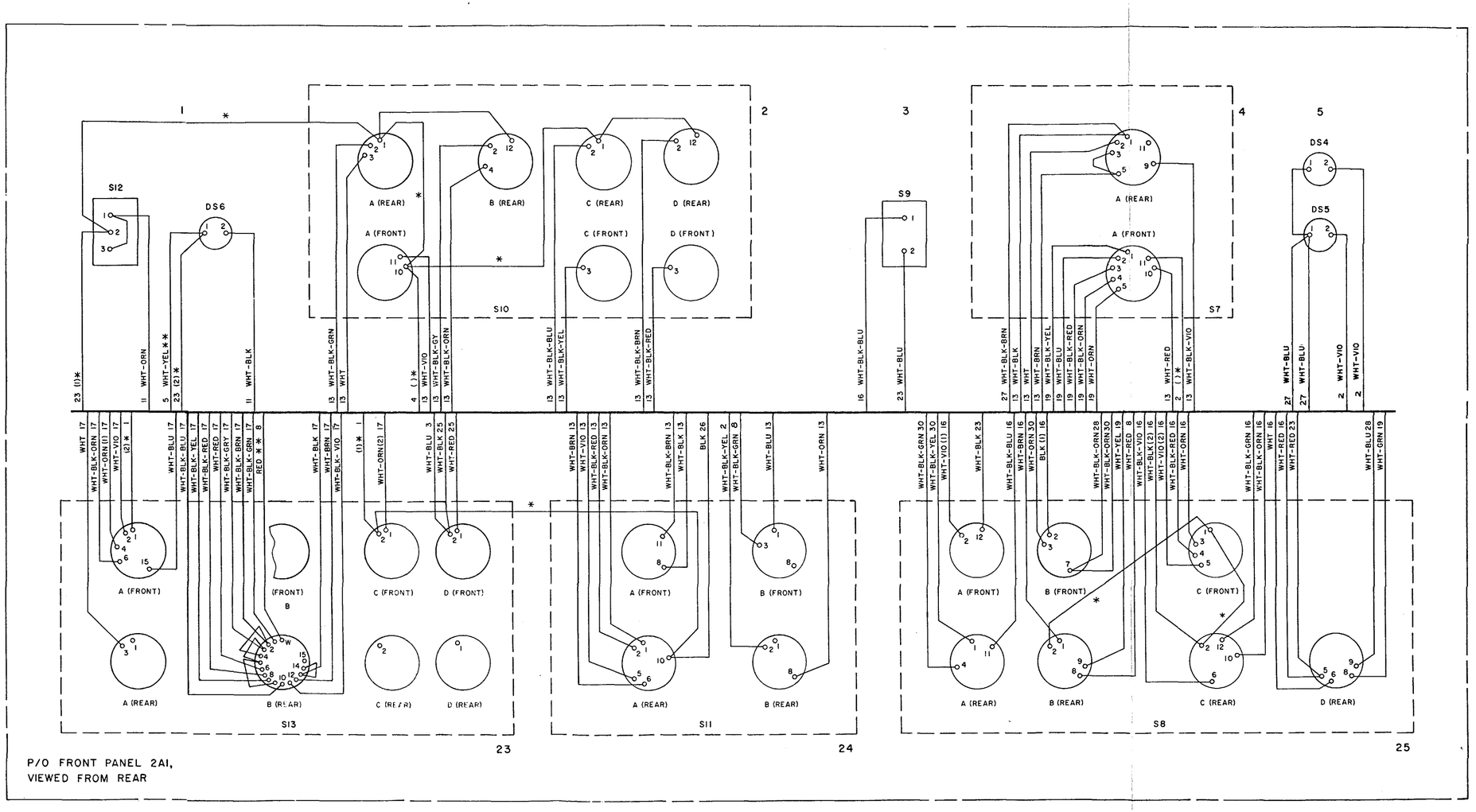
Figure 6-20③. TS-2862/GGM-15(V), overall schematic diagram (sheet 3 of 3).



EL6625-1668-45/2-38①

Figure 6-21①. TS-2862/GGM-15(V), overall wiring diagram (sheet 1 of 6)

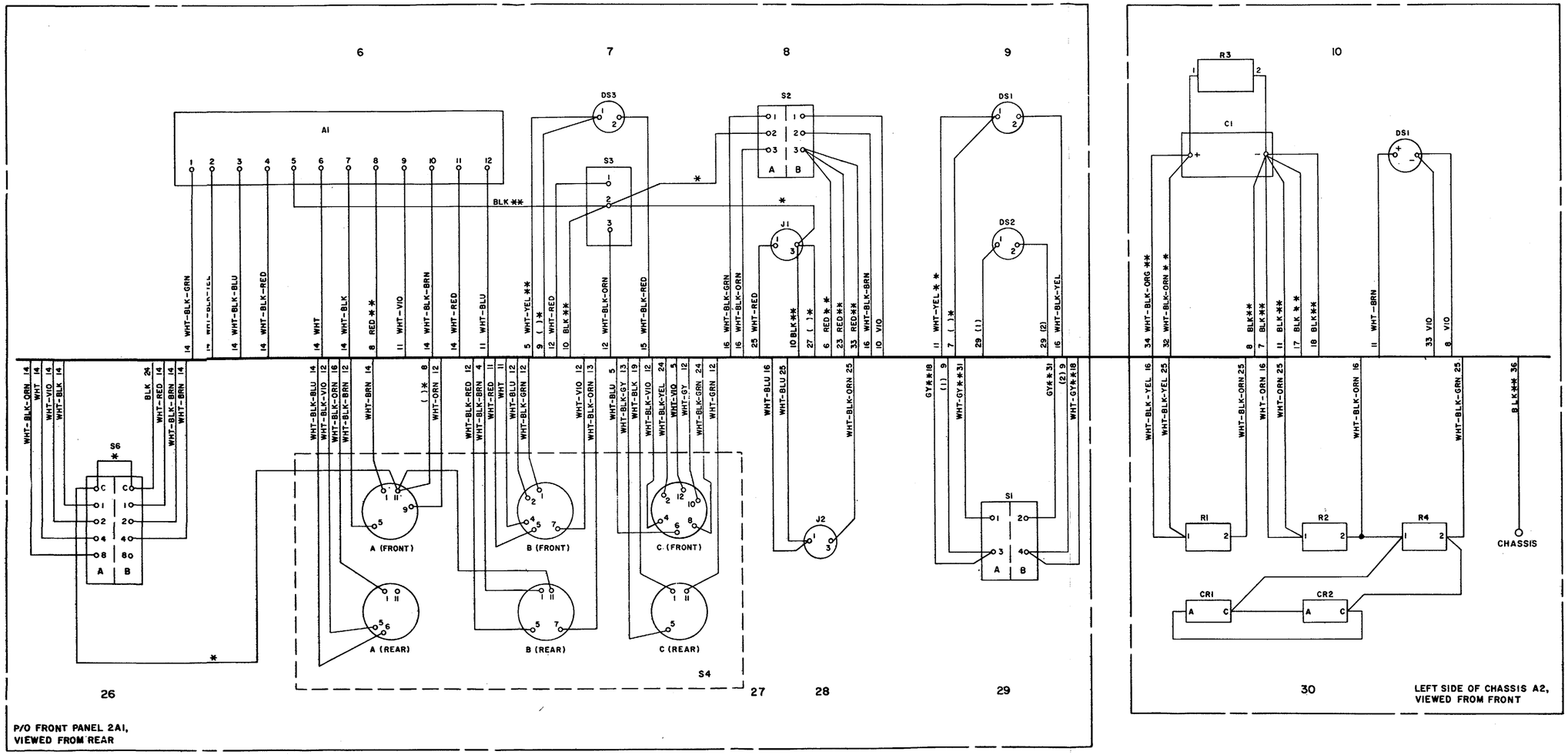


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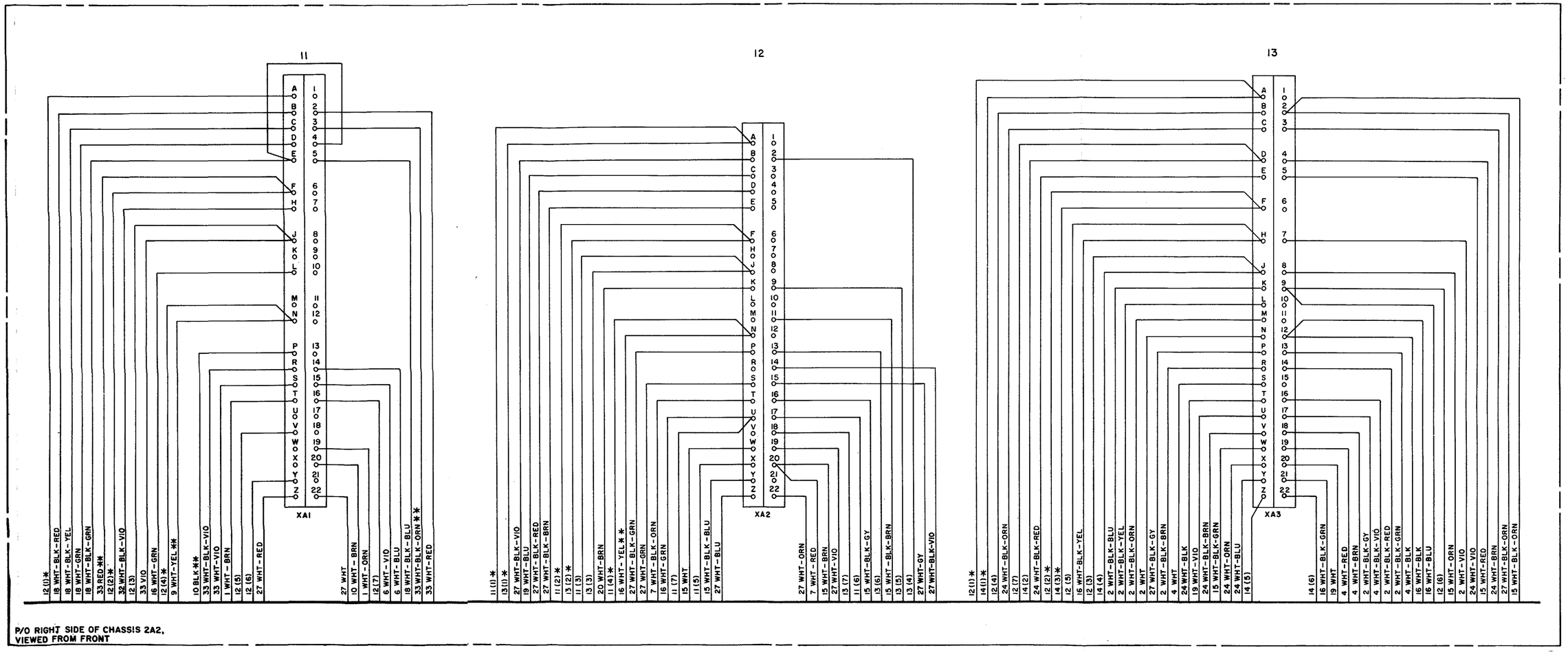
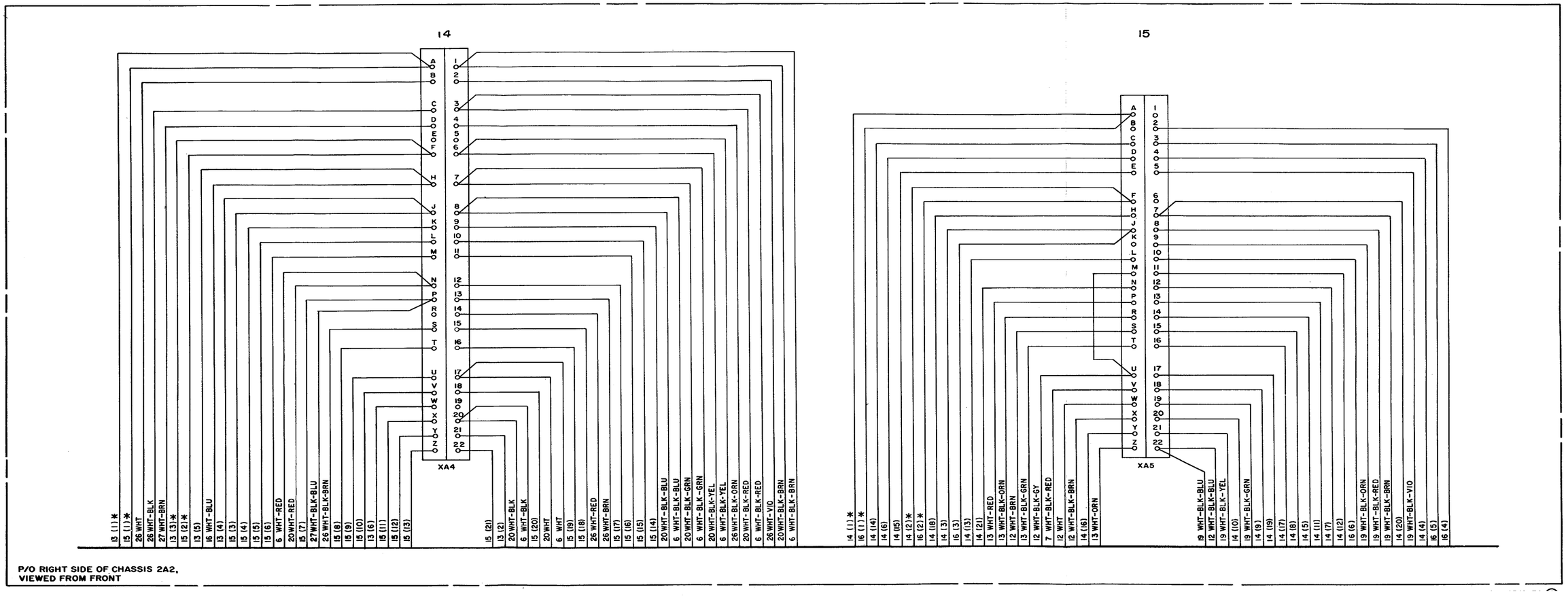
Figure 6-21②. TS-2862/GGM-15(V), overall wiring diagram (sheet 2 of 6).



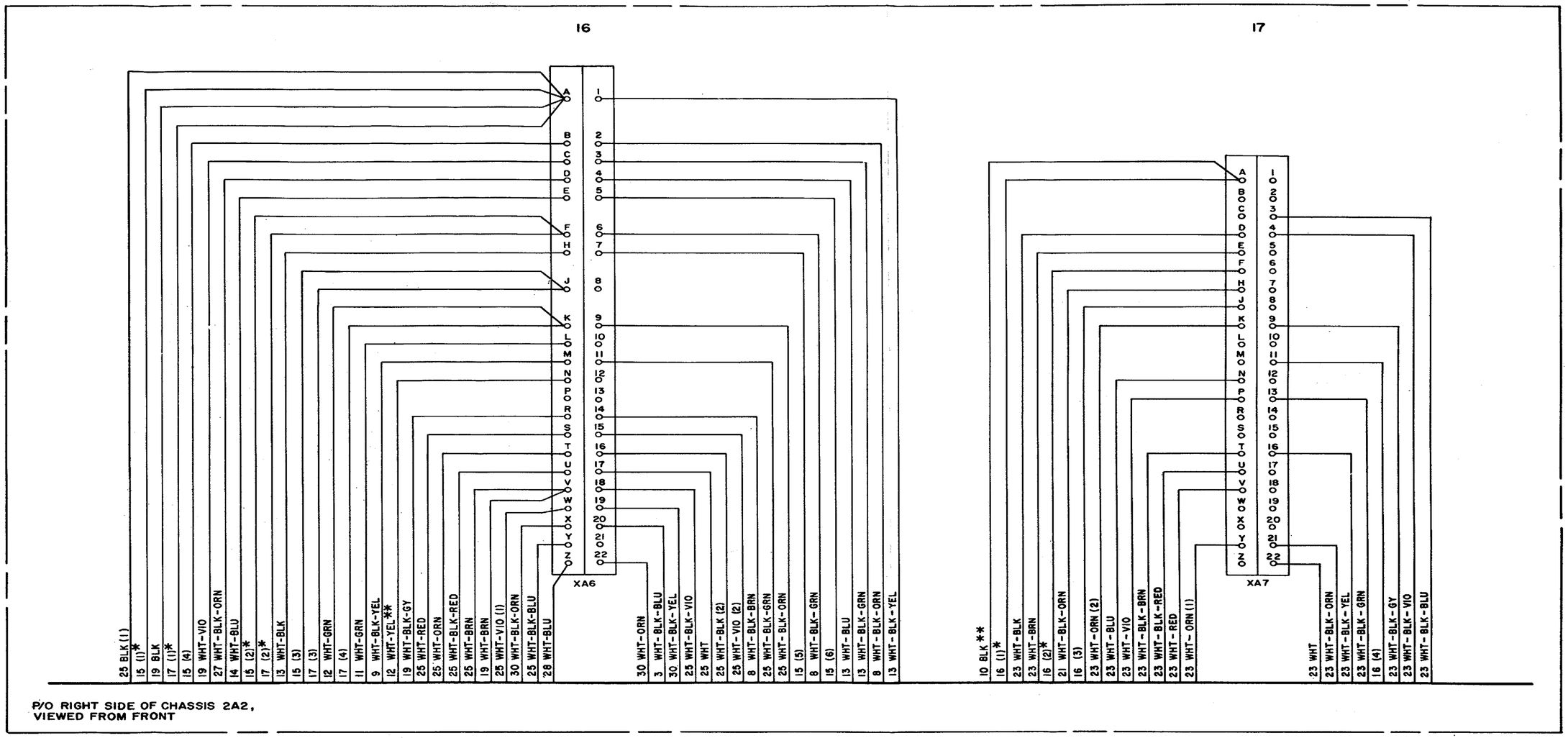
EL6625-1668-45/2-38③

Figure 6-21③. TS-2862/GGM-15(V), overall wiring diagram (sheet 3 of 6).



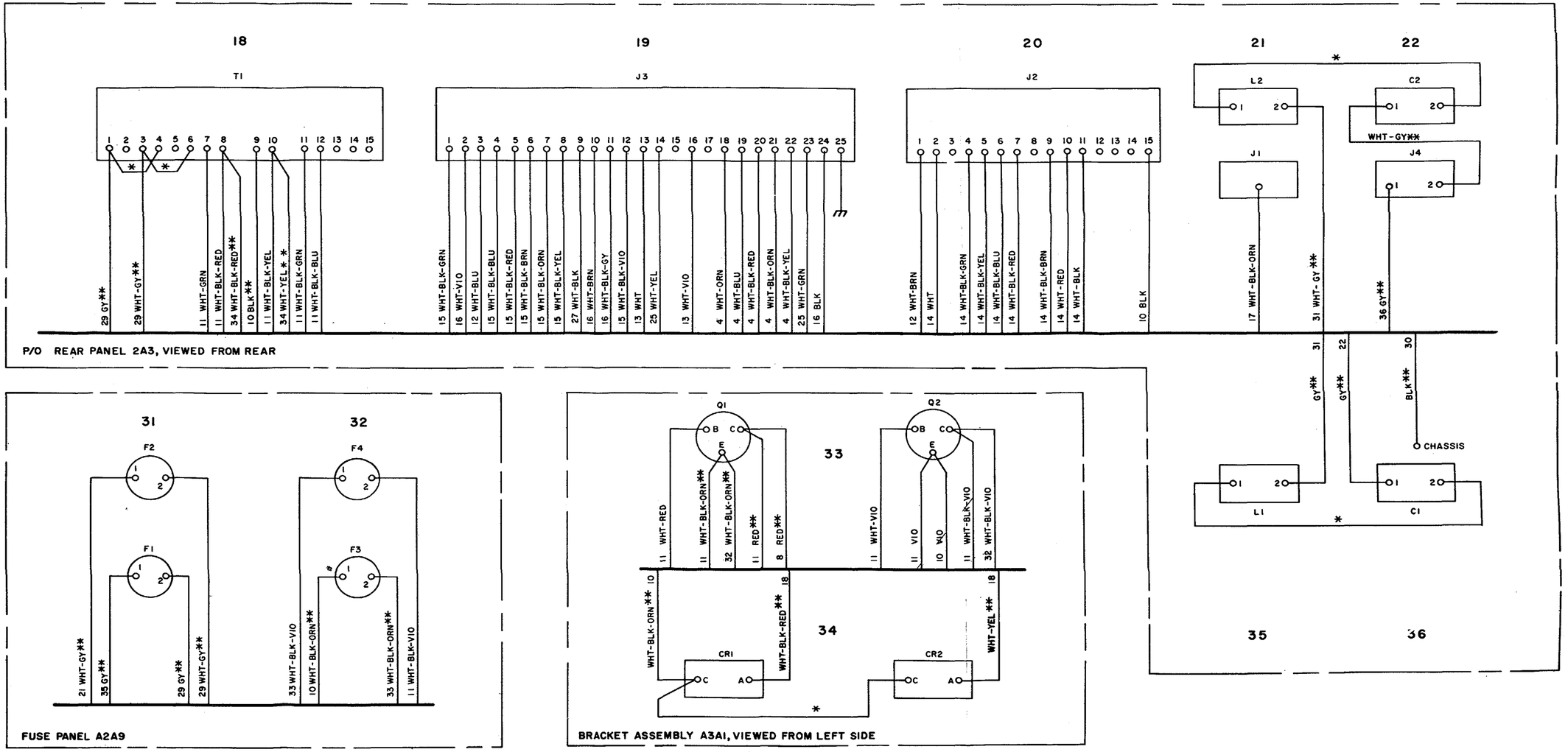
EL6625-1668-45/2-38④

Figure 6-21④. TS-2862/GGM-15(V), overall wiring diagram (sheet 4 of 6).



EL6625-1668-45/2-38⑤

Figure 6-21⑤. TS-2862/GGM-15(V), overall wiring diagram (sheet 5 of 6).



EL6625-1668-45/2-38⑥

Figure 6-21⑥. TS-2862/GGM-15(V), overall wiring diagram (sheet 6 of 6).