

# TX-W28R3F/L Service Manual

Safety

Specifications

Parts List

Service  
Information

Adjustments

Self Check

Service Hints

Mechanical  
View

Disassembly

Location of  
Controls

Waveforms

Block Diagrams

Schematic Diagrams

PCB Views

## Service Support

Service and repair of this product is supported by Panasonic's LUCI interface.

This interface provides a link between the TV and a standard PC to allow a number of diagnostic and control functions to be performed.

For more details contact your local Panasonic company.

  
BACK

EXIT

Video / Audio

Control



BACK

B2 - PCB

D - PCB

E - PCB

F2 - PCB

H - PCB

M4 - PCB

Y2 - PCB



BACK

B2 - Schematic

D - Schematic

E - Schematic

F2 - Schematic

H - Schematic

M4 - Schematic

Y2 - Schematic



BACK

# Service Manual



**Colour Television**

**TX-W28R3F/L**

**EURO-3W Chassis**

## SPECIFICATIONS

<b>Power Source :</b>	220 - 240 V AC, 50Hz
<b>Power Consumption :</b>	135W
<b>Standby</b>	
<b>Power Consumption :</b>	1W
<b>Aerial Impedance :</b>	75Ω unbalanced, Coaxial Type
<b>Receiving System :</b>	PAL I, PAL - 525/60 M.NTSC, NTSC (AV Only)
<b>Receiving Channels :</b>	VHF A - S20 UHF E21 - E69 CATV S21 - S41 (HYPERBAND)
<b>Intermediate Frequency :</b>	
Video	39.5MHz
Sound	33.5MHz
	32.95MHz
Colour	35.07MHz
<b>Video / AudioTerminals</b>	
AUDIO MONITOR OUT	Audio (RCA x 2) 500mV rms 1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV2 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10 kΩ
AV2 OUT	S-Video IN Y : 1V p-p 75Ω (21 pin) C : 0.3V p-p 75Ω Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ Selectable output (21 pin)

AV3 IN	S-Video IN Y : 1V p-p 75Ω (4-pin) C : 0.3V p-p 75Ω Audio (RCA x 2) 500mV rms 10kΩ Video (RCA x 1) 1V p-p 75Ω
AV4 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ
AV4 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
<b>High Voltage :</b>	30.5 kV ± 1kV
<b>Picture Tube :</b>	W66EHK51X26 66 cm
<b>Visible screen size:</b>	106° deflection
<b>Audio Output :</b>	
Internal Speakers	2 x 20W (Left / Right) (Music Power) 8Ω Impedance
Headphones	8Ω Impedance
<b>Accessories supplied :</b>	Remote Control 2 x R6 (UM3) Batteries VS-WR3 Video Cabinet
<b>Dimensions :</b>	
Height :	496.8mm
Width :	760mm
Depth :	518mm
<b>Net Weight</b>	37kg
Specifications are subject to change without notice. Weight and dimensions shown are approximate.	

**Panasonic**

# CONTENTS

- SAFETY PRECAUTIONS
- SERVICE HINTS
- SERVICE MODE
- ALIGNMENT SETTINGS
- ADJUSTMENT PROCEDURE
- SELF CHECK
- WAVEFORM PATTERN TABLE
- BLOCK DIAGRAMS
- PARTS LOCATION
- REPLACEMENT PARTS LIST
- P.C.B. VIEWS
- SCHEMATIC DIAGRAMS

## SAFETY PRECAUTIONS

### General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 31.5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

### LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

### LEAKAGE CURRENT HOT CHECK

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.

3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

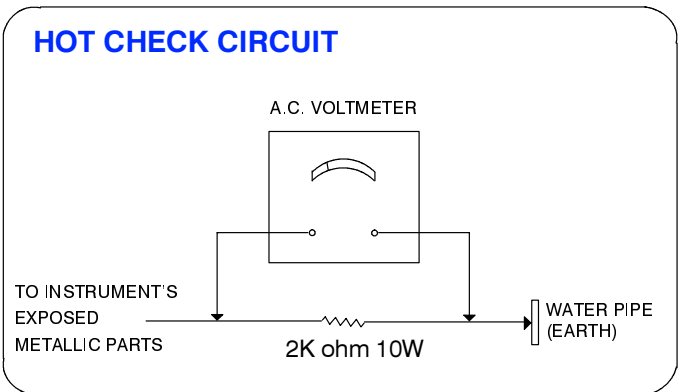


Fig.1

### X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service ensure that the jig is capable of handling 31.5kV without causing X-Radiation.

**NOTE :** It is important to use an accurate periodically calibrated high voltage meter

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 30.5kV ± 1kV if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

## SERVICE HINTS

### How to remove the rear cover

1. Remove the 10 screws (A) as shown in Fig.3/Fig.4.

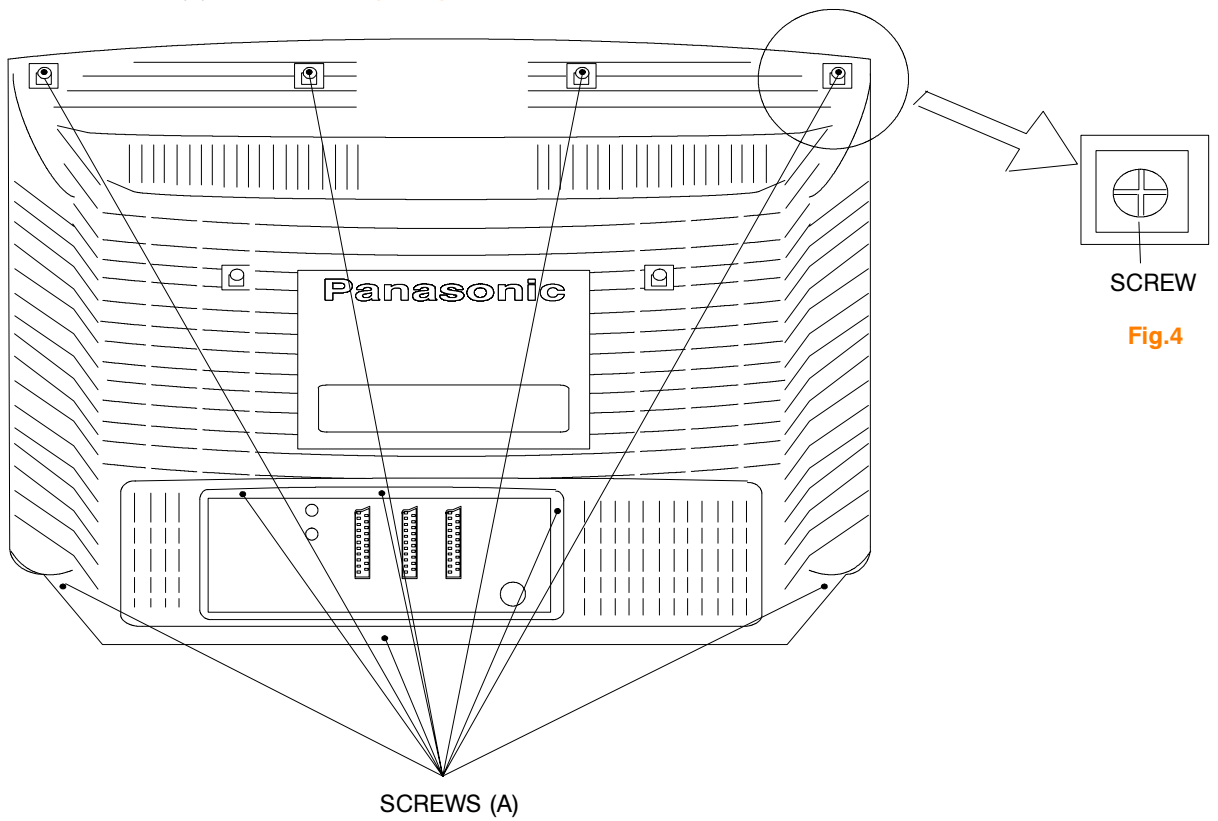


Fig.3.

## LOCATION OF CONTROLS

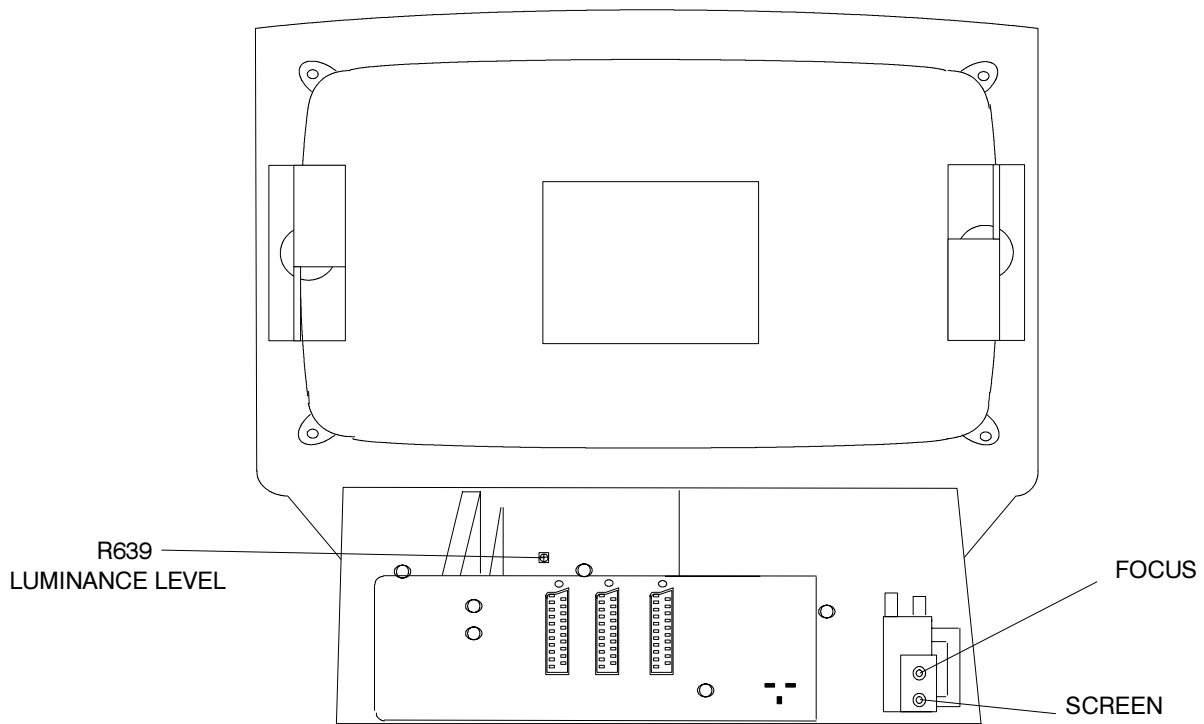


Fig.2

# SERVICE MODE

The remote control is used for entering and storing adjustments, with the exception of cut-off adjustments which must always be done prior to service adjustment. Perform adjustments in accordance with screen display. The display on the screen also specifies the CCU variants as well as the approx. setting values. The adjustment sequence for the service mode is indicated below.

1. Set the Bass to maximum position, set the Treble to minimum position, press the Reveal button on the remote control and at the same time press the -/v button on the customer controls at the front of the TV, this will place the TV into the Service Mode.
2. Press the RED / GREEN buttons to step up / down through the functions.
3. Press the YELLOW / BLUE buttons to alter the function values.
4. Press the STORE button after each adjustment has been made to store the required values.
5. To exit the Service Mode press the Normalisation button.

**NOTE:** This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels into the Memory Pack and then download them onto this or any other EURO-3W TV set.

## TV to Memory Pack process

1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show:-

Program  
External>>TV

3. Press the blue button on the remote control. The screen will show:-

Program  
TV>>External

4. Press the STORE button on the TV. The screen will show:-

Storing

5. All the tuning information stored inside the TV will now be transferred to the Memory Pack. This process will take 2-3 minutes to complete and when finished the screen will show:-

OK!

## Memory Pack to TV Process

1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show:-

Program  
External>>TV

3. Press the STORE button on the TV. The screen will show:-

Loading

4. All the tuning information stored inside the Memory Pack will now be transferred to the TV. This process will take 2-3 minutes to complete and when finished the screen will show:-

OK!

5. The tuning information from the Memory Pack has now been copied into the TV.
6. To exit from the Service Mode press the Normalisation button.
7. The process has now been completed and the Memory Pack can now be removed.

# ERRORS

If an error occurs while using the Memory Pack the TV will detect this and the screen will show:-

Program  
Error!

If this happens then press the Normalisation button and repeat the process that was being used. If the errors continue to occur then check the connectors between the TV and the memory pack and check the 9V battery inside the memory pack.

## Alignment Settings

(The figures used below are nominal and used for representative purposes only)

ALIGNMENT FUNCTION		SETTINGS / SPECIAL FEATURES
Vertical amplitude	V-AMP 038	Optimum setting
Vertical linearity	V-LIN 022	
V-Pos.	V-POS 005	
Horizontal amplitude	H-AMP 043	
Horizontal position	H-POS 035	
EW-amplitude	E/W-AMP 1 020	
EW-amplitude	E/W-AMP 2 015	
Trapezium-comp	TRAPEZ-1 004	
Vert. DC.	VERT. D.C. 008	
Text Position	TEXT POSITION 060	Optimum setting
Cutoff	---	Select a window pattern enter Service Mode and step through to Cutoff, connect an oscilloscope to the Blue Cathode and adjust the screen VR of the FBT to get $150 \pm 5V$ at the base of the Cutoff pulse.
Cutoff RGB	CUTOFF RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
White RGB	WHITE RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
Sub Brightness	SUB BRIGHT 000	Optimum setting

## ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments																																								
<b>Supply Voltage Check</b> 1. Receive a greyscale pattern 2. Set the controls: Brightness      Minimum Contrast         Minimum Volume            Minimum	1. Confirm the following voltages. <table border="0"> <tr> <td colspan="2"><b>E PCB</b></td> <td colspan="2"><b>D PCB</b></td> </tr> <tr> <td><b>U5B</b> 5</td> <td>± 0.5V</td> <td><b>U5A</b> 5.1</td> <td>+ 0.12/-0.1V</td> </tr> <tr> <td><b>U8A</b> 8</td> <td>± 0.5V</td> <td><b>U5SB</b> 5</td> <td>± 0.25V</td> </tr> <tr> <td><b>U9</b> 9</td> <td>± 0.5V</td> <td><b>U15</b> 15</td> <td>± 0.7V</td> </tr> <tr> <td><b>U12</b> 11.8</td> <td>± 0.5V</td> <td><b>U16</b> 16.1</td> <td>± 0.8V</td> </tr> <tr> <td></td> <td></td> <td><b>U22</b> 22.5</td> <td>± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U38</b> 19</td> <td>± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U47</b> 47.5</td> <td>± 2.5V</td> </tr> <tr> <td></td> <td></td> <td><b>U150</b> 150</td> <td>± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U200</b> 204</td> <td>± 10V</td> </tr> </table>	<b>E PCB</b>		<b>D PCB</b>		<b>U5B</b> 5	± 0.5V	<b>U5A</b> 5.1	+ 0.12/-0.1V	<b>U8A</b> 8	± 0.5V	<b>U5SB</b> 5	± 0.25V	<b>U9</b> 9	± 0.5V	<b>U15</b> 15	± 0.7V	<b>U12</b> 11.8	± 0.5V	<b>U16</b> 16.1	± 0.8V			<b>U22</b> 22.5	± 1V			<b>U38</b> 19	± 1V			<b>U47</b> 47.5	± 2.5V			<b>U150</b> 150	± 1V			<b>U200</b> 204	± 10V
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## SELF CHECK

Self check is used to automatically check the Bus Lines and Hexadecimal code of the TV set. To get into the Self Check mode press the Status button on the Remote Control at the same time pressing the -/v button on the customer controls at the front of the TV, and the screen will show:-  
 When exiting Self Check the customer settings will return to factory setup.

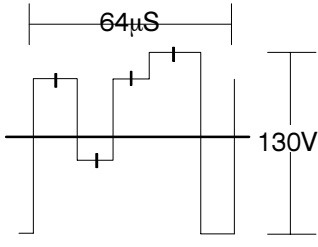
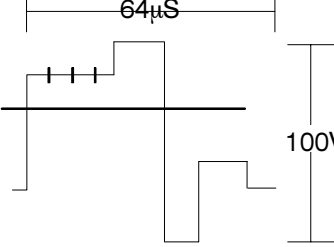
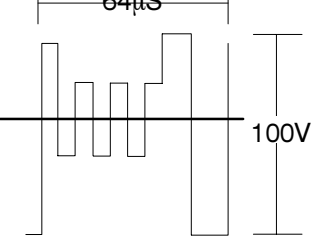
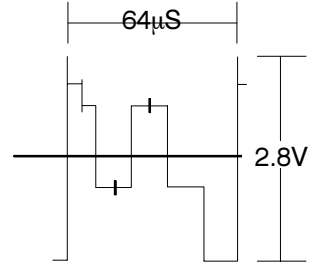
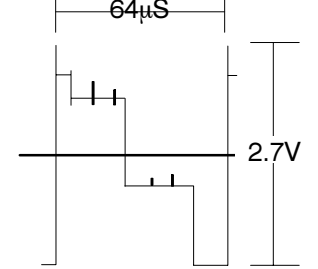
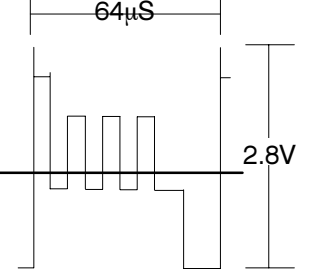
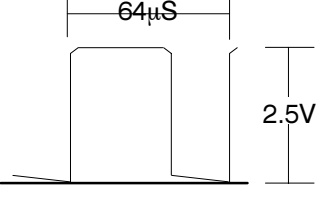

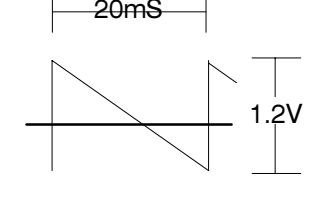
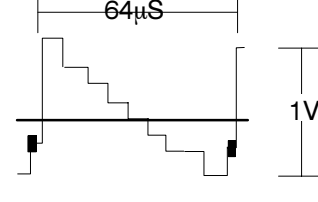
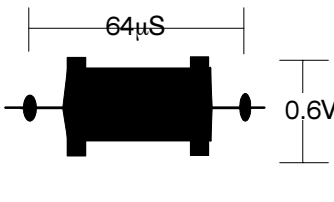
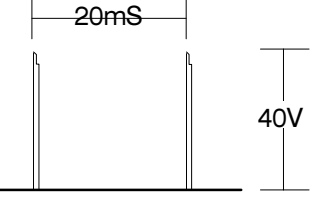
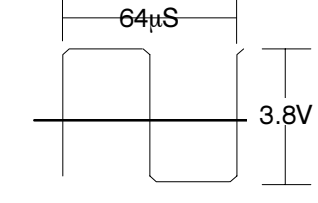
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Hex codes	
— ok	— ok	— ok	— ok	— ok	— ok	— ok	— ok	— ok	— ok	— --	— ok	— ok	— ok	— ok	— ok	— --	— --	— ok	— ok	— ok	— ok	— ok	— ok	— ok	00
Test Byte	Lst Power	U5 Det	Protector	Not Used	Not Used	Not Used	Not Used	Col Decoder (M)	Clock generator	V - Processor	DFU	Display Processor	RGB Processor	Deflection IC	MSP	Col Decoder (P)	Q - PIP	Not Used	Not Used	EAROM	Audio Matrix	Video Matrix	Tuner	73	
																								85	
																								11	
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																								FB	
																								38	

If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "OK".



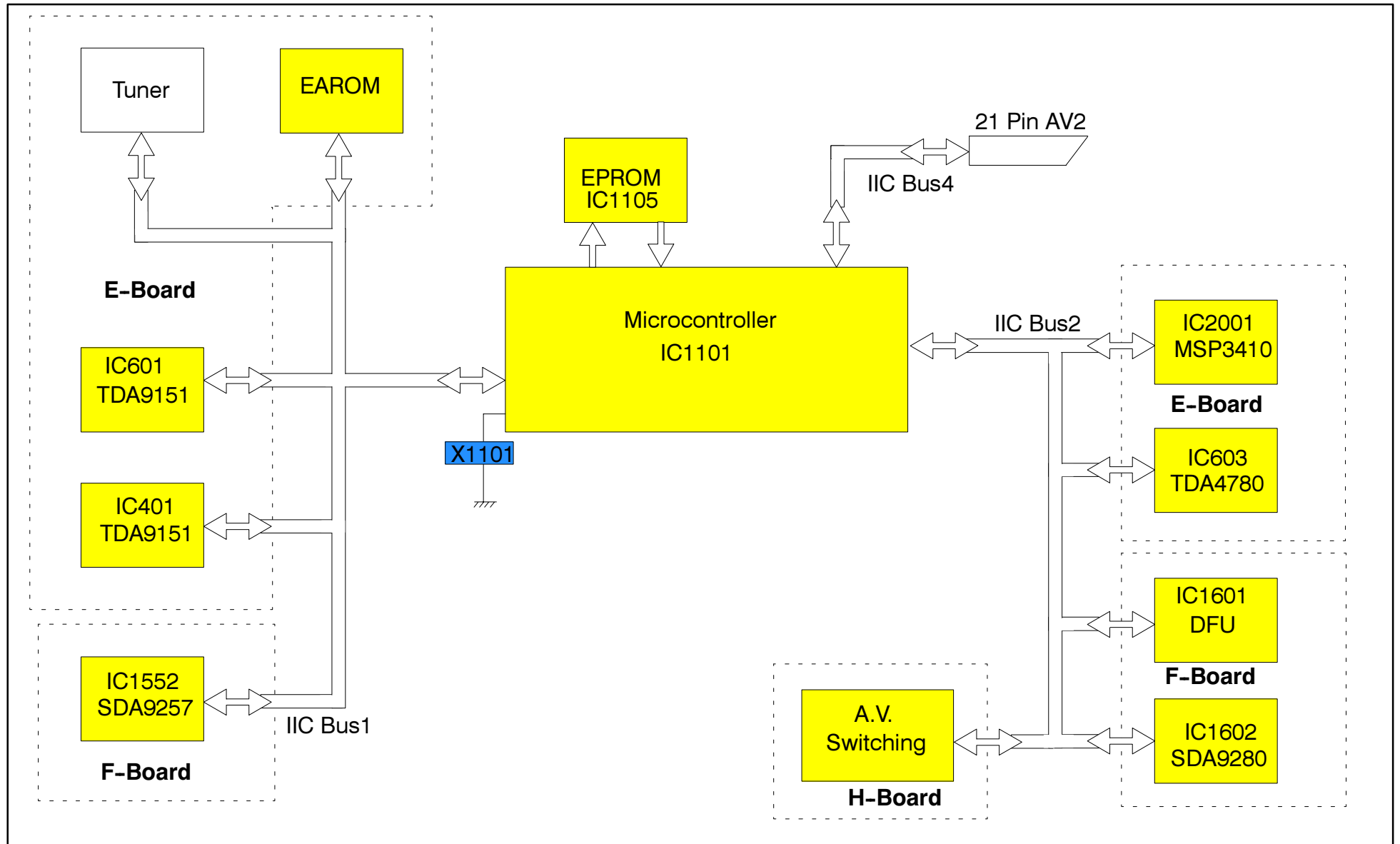
## WAVEFORM PATTERN TABLE

**NOTE: All waveforms have been taken using a standard colour bar pattern**

<p><b>RED DRIVE</b> TPY1</p> 	<p><b>GREEN DRIVE</b> TPY2</p> 	<p><b>BLUE DRIVE</b> TPY3</p> 
<p><b>RED OUTPUT</b> IC 603 PIN 24</p> 	<p><b>GREEN OUTPUT</b> IC 603 PIN 22</p> 	<p><b>BLUE OUTPUT</b> IC 603 PIN 20</p> 
<p><b>HORIZONTAL SYNC</b> IC 3501 PIN 4</p> 	<p><b>VERTICAL SYNC</b> IC 3501 PIN 3</p> 	<p><b>VERT OUTPUT IC (INPUT)</b> IC 451 PIN 1</p> 
<p><b>LUMINANCE IN</b> IC601 PIN 26</p> 	<p><b>CHROMINANCE IN</b> IC601 PIN 25</p> 	<p><b>VERTICAL OUTPUT (DRIVE)</b> IC 451 PIN 9</p> 
<p><b>HORIZONTAL OUTPUT</b> IC401 PIN 20</p> 		



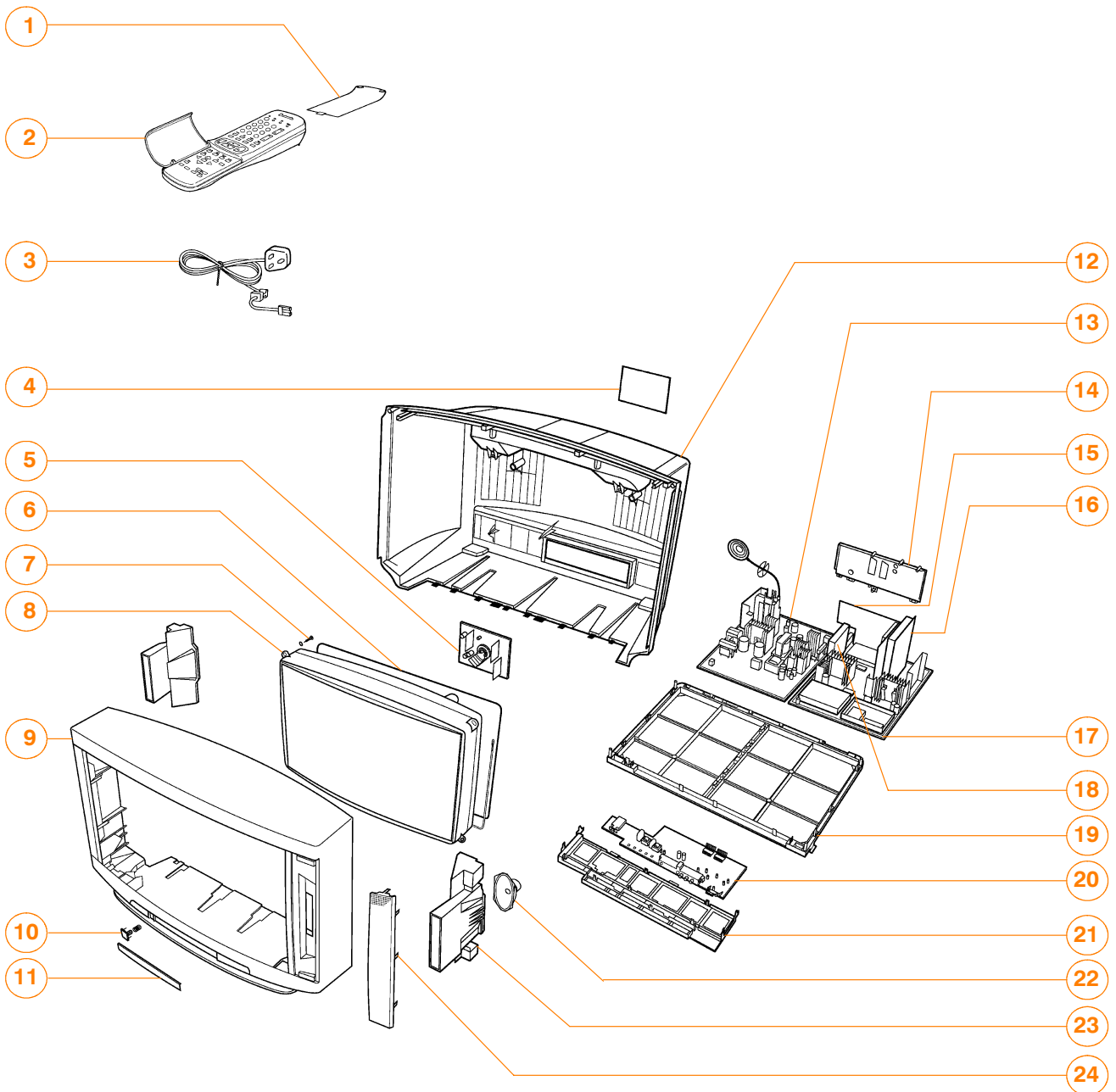
# CONTROL BLOCK DIAGRAM



## PARTS LOCATION

### NOTE :

The numbers on the exploded view below refer to the miscellaneous section of the Replacement Parts List.



## REPLACEMENT PARTS LIST

### Important Safety Notice

Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Ref No.	Part No.	Description
<b>MISCELLANEOUS COMPONENTS</b>		
1)	UR51EC780	BATTERY COVER (REMOTE)
2)	EUR51925	REMOTE CONTROL
3)	TSX8E0018	POWER CORD <span style="float: right;"><math>\Delta</math></span>
4)	TBM8E1797	MODEL LABEL
5)	TNPA0772AB	Y P.C.B. <span style="float: right;"><math>\Delta</math></span>
6)	TXFLK01DAG	DEGAUSS COIL <span style="float: right;"><math>\Delta</math></span>
7)	THT1062	CRT FIXING SCREW
8)	W66EHK51X26	C.R.T. <span style="float: right;"><math>\Delta</math></span>
9)	TKY8E120	CABINET <span style="float: right;"><math>\Delta</math></span>
10)	TBX8E049	POWER BUTTON
11)	TKP8E1141	DOOR LID
12)	TKU8E00300	BACK COVER <span style="float: right;"><math>\Delta</math></span>
13)	TNPA0295AH	D P.C.B. <span style="float: right;"><math>\Delta</math></span>
14)	TKP8E1153	AV COVER
15)	TNPA0293AD	H P.C.B. <span style="float: right;"><math>\Delta</math></span>
16)	TNPA0756AB	F P.C.B. <span style="float: right;"><math>\Delta</math></span>
17)	TNPH0063BT	E P.C.B. <span style="float: right;"><math>\Delta</math></span>
18)	TNPA0317AB	B P.C.B. <span style="float: right;"><math>\Delta</math></span>
19)	TMX8E014	CHASSIS FRAME
20)	TNPA0798AA	M P.C.B. <span style="float: right;"><math>\Delta</math></span>
21)	TMW8E023	CONTROL BRACKET
22)	EAGG1218F2	SPEAKER
23)	TKK8E026	SPEAKER REFLECTOR
24)	TKP8E1152	SPEAKER NET
	TBM8E1532-2	PRESET PANEL
	TBM8E1728	AV LABEL
	TEK6940	LID CATCHER
	TKP8E1142	PANEL RIGHT
	TKP8E1143	PANEL LEFT
	TLT100K991R	COIL
	TMW8E017	L.E.D. HOLDER
	TMX8E015	PCB SUPPORT BRACKET
	ENV57D03G3	TUNER <span style="float: right;"><math>\Delta</math></span>
	TPC8E4672	OUTER CARTON
	TPD8E623	CUSHION TOP
	TPD8E624	CUSHION BOTTOM
	TQB8E2462	INST BOOK <span style="float: right;"><math>\Delta</math></span>
	VS-WR3	VIDEO CABINET
	UM-3DJ-2P	BATTERY SET
	F9-4-220	RELAY
	TES4537	SPRING
	2153.15H	FUSE <span style="float: right;"><math>\Delta</math></span>
	832AG11D-ESL	I.C. SOCKET
	PCS-068A-1	68 PIN I.C. SOCKET
	ERC12GK825	SOLID 0.5W 10% 8M $\Omega$
	ERDS1TJ6R8	CARBON 0.5W 5% 6R8 $\Omega$
<b>INTEGRATED CIRCUITS</b>		
IC101	TDA9814TV3	VIF
IC251	TDA2030AV	AUDIO AMPLIFIER
IC252	TDA2030AV	AUDIO AMPLIFIER
IC351	TDA6103Q-N3	R.G.B. AMPLIFIER
IC401	TDA9151-B	DEFLECTION CONTROL
IC451	TDA8350Q/N5	VERTICAL PUTPUT
IC601	TDA9143-N1	COLOUR DECODER
IC602	TDA4665-V4	DELAY LINE
IC603	TDA4780/V4	RGB VIDEO PROCESSOR

Ref No.	Part No.	Description
IC801	AN8029	POWER SUPPLY
IC845	SE140N	ERROR AMPLIFIER
IC851	TL431ACLPM	REGULATOR
IC852	TL431ACLPM	REGULATOR
IC1051	RPM-637CBRS1	LED RECEIVER
IC1101	SDA30C164-2	MICRO PROCESSOR
IC1102	S-80745AL-Z	RESET
IC1103	MN1280R	RESET
IC1104	X24C0301PG	EAROM
IC1105	27C2001607AA	EPROM
IC1551	SN74F04DR	CLOCK
IC1552	SDA9257	CLOCK GENERATOR
IC1581	SDA9205-2GEG	A/D CONVERTER
IC1601	UPD93213GF	DFU
IC1602	SDA9280B22GE	VIDEO PROCESSOR
IC2001	MSP3410DPPB4	AUDIO PROCESSOR
IC3101	TEA6420	AUDIO SWITCH
IC3102	TEA6415C	VIDEO SWITCH
IC3501	SDA5273S/134	MEGA TEXT
IC3502	M514256B70RS	DRAM
IC3801	AN7808LB	8V REGULATOR
IC3803	AN7805LB	5V REGULATOR
IC3804	AN7809FLB	9V REGULATOR
IC3805	AN78L08TA	8V REGULATOR
<b>CAPACITORS</b>		
C002	ECUV1H102JCX	S.M.CAP 50V 1nF
C003	ECA1HM101GB	ELECT 50V 100 $\mu$ F
C004	ECUV1H102JCX	S.M.CAP 50V 1nF
C005	ECUV1H102JCX	S.M.CAP 50V 1nF
C006	ECUV1H102JCX	S.M.CAP 50V 1nF
C007	ECUV1H102JCX	S.M.CAP 50V 1nF
C009	ECA1HMR22GB	ELECT 50V 0.22 $\mu$ F
C010	ECUV1H102KBX	S.M.CAP 50V 1nF
C014	ECUV1H103ZFX	S.M.CAP 50V 10nF
C015	ECUV1H390JCX	S.M.CAP 50V 39pF
C016	ECUV1H390JCX	S.M.CAP 50V 39pF
C017	ECA1CM470GB	ELECT 16V 47 $\mu$ F
C019	ECUV1H561JCX	S.M.CAP 50V 560pF
C020	ECUV1H103ZFX	S.M.CAP 50V 10nF
C022	ECUV1H103ZFX	S.M.CAP 50V 10nF
C023	ECUV1H681JCX	S.M.CAP 50V 680pF
C024	ECUV1H103ZFX	S.M.CAP 50V 10nF
C025	ECUV1H101JCX	S.M.CAP 50V 100pF
C026	ECUV1H681JCX	S.M.CAP 50V 680pF
C028	ECUV1H103KBX	S.M.CAP 50V 10nF
C101	ECUV1H104ZFX	S.M.CAP 50V 100nF
C106	ECUV1H104ZFX	S.M.CAP 50V 100nF
C108	ECUV1H104ZFX	S.M.CAP 50V 100nF
C109	ECUV1H104ZFX	S.M.CAP 50V 100nF
C111	ECUV1H103ZFX	S.M.CAP 50V 10nF
C113	ECUV1H393KBX	S.M.CAP 50V 39nF
C115	ECUV1H104ZFX	S.M.CAP 50V 100nF
C116	ECUV1H030CPX	S.M.CAP 50V 30pF
C117	ECUV1H070DTX	S.M.CAP 50V 70pF
C118	ECEA1CKA100	ELECT 16V 10 $\mu$ F
C120	ECEA1HKA2R2	ELECT 50V 2.2 $\mu$ F
C121	ECEA1HKA2R2	ELECT 50V 2.2 $\mu$ F
C122	ECUV1C105ZFX	S.M.CAP 16V 1000nF
C123	ECEA1HKA2R2	ELECT 50V 2.2 $\mu$ F
C124	ECUV1H471JCX	S.M.CAP 50V 470pF

Ref No.	Part No.	Description
C125	ECUV1H104ZFX S.M.CAP	50V 100nF
C126	ECUV1H104ZFX S.M.CAP	50V 100nF
C127	ECEA1CKA100 ELECT	16V 10 $\mu$ F
C128	ECUV1H102KBX S.M.CAP	50V 1nF
C129	ECEA1CKA100 ELECT	16V 10 $\mu$ F
C130	ECUV1H104ZFX S.M.CAP	50V 100nF
C131	ECUV1H102KBX S.M.CAP	50V 1nF
C132	ECUV1H102KBX S.M.CAP	50V 1nF
C133	ECUV1H102KBX S.M.CAP	50V 1nF
C134	ECUV1H104ZFX S.M.CAP	50V 100nF
C135	ECEA1CKA100 ELECT	16V 10 $\mu$ F
C136	ECUV1H104ZFX S.M.CAP	50V 100nF
C137	ECUV1H100DCX S.M.CAP	50V 10pF
C138	ECUV1H151JCX S.M.CAP	50V 150pF
C139	ECUV1H104ZFX S.M.CAP	50V 100nF
C140	ECUV1H151JCX S.M.CAP	50V 150pF
C142	ECUV1H100DCX S.M.CAP	50V 10pF
C143	ECUV1H220JCX S.M.CAP	50V 22pF
C144	ECUV1H151JCX S.M.CAP	50V 150pF
C145	ECUV1H151JCX S.M.CAP	50V 150pF
C146	ECUV1H120JCX S.M.CAP	50V 12pF
C148	ECUV1H103ZFX S.M.CAP	50V 10nF
C150	ECEA1CKA100 ELECT	16V 10 $\mu$ F
C151	ECUV1H104ZFX S.M.CAP	50V 100nF
C152	ECUV1H104ZFX S.M.CAP	50V 100nF
C153	ECUV1H120JCX S.M.CAP	50V 12pF
C158	ECUV1H103ZFX S.M.CAP	50V 10nF
C159	ECUV1H080CCX S.M.CAP	50V 80pF
C251	ECQM1H474J FILM	50V 470nF
C252	ECUV1H222JCX S.M.CAP	50V 2.2nF
C253	ECUV1H393KBX S.M.CAP	50V 39nF
C254	ECUV1H393KBX S.M.CAP	50V 39nF
C255	ECEA1CN100 ELECT	16V 10 $\mu$ F
C256	ECA1HM100GB ELECT	50V 10 $\mu$ F
C257	ECA1HM100GB ELECT	50V 10 $\mu$ F
C258	ECQM1H474J FILM	50V 470nF
C259	ECUV1H222JCX S.M.CAP	50V 2.2nF
C260	ECUV1H393KBX S.M.CAP	50V 39nF
C261	ECUV1H393KBX S.M.CAP	50V 39nF
C262	ECEA1CN100 ELECT	16V 10 $\mu$ F
C263	ECA1HM100GB ELECT	50V 10 $\mu$ F
C264	ECA1HM100GB ELECT	50V 10 $\mu$ F
C267	ECUV1H103ZFX S.M.CAP	50V 10nF
C268	ECUV1H223ZFX S.M.CAP	50V 22nF
C269	ECA1EM222GB ELECT	25V 2.2 $\mu$ F
C270	ECA1EM222GB ELECT	25V 2.2 $\mu$ F
C271	ECA1HM010GB ELECT	50V 1 $\mu$ F
C272	ECA1HM010GB ELECT	50V 1 $\mu$ F
C273	ECA1HM010GB ELECT	50V 1 $\mu$ F
C274	ECA1HM010GB ELECT	50V 1 $\mu$ F
C275	ECUV1C184KBX S.M.CAP	16V 0.18 $\mu$ F
C276	ECUV1C184KBX S.M.CAP	16V 0.18 $\mu$ F
C277	ECEA1HU471 ELECT	50V 470 $\mu$ F
C280	ECUV1H562KBX S.M.CAP	50V 5.6nF
C281	ECUV1H104ZFX S.M.CAP	50V 100nF
C282	ECUV1H561JCX S.M.CAP	50V 560pF
C283	ECUV1H561JCX S.M.CAP	50V 560pF
C354	ECQM2104KZ FILM	250V 100nF
C355	ECUV1H222JCX S.M.CAP	50V 2.2nF
C356	ECUV1H222JCX S.M.CAP	50V 2.2nF
C357	ECUV1H222JCX S.M.CAP	50V 2.2nF
C358	ECUV1H103ZFX S.M.CAP	50V 10nF
C360	ECKC3D152J CERAMIC	2KV 1.5nF $\Delta$
C361	ECA1HMR47GB ELECT	50V 0.47 $\mu$ F
C363	ECA1CM471GB ELECT	16V 470 $\mu$ F
C364	ECUV1H103ZFX S.M.CAP	50V 10nF
C365	ECA1CM471GB ELECT	16V 470 $\mu$ F
C366	ECA1CM100GB ELECT	16V 10 $\mu$ F
C402	ECUV1H104ZFX S.M.CAP	50V 100nF
C403	ECA1AM332E ELECT	10V 3.3 $\mu$ F
C404	ECUV1H104ZFX S.M.CAP	50V 100nF
C405	ECUV1H104ZFX S.M.CAP	50V 100nF

Ref No.	Part No.	Description
C406	ECUV1H182KBX S.M.CAP	50V 1.8nF
C409	ECUV1H101JCX S.M.CAP	50V 100pF
C413	ECUV1H561KBX S.M.CAP	50V 560pF
C451	ECUV1H104ZFX S.M.CAP	50V 100nF
C452	ECA1EM332E ELECT	25V 3.3 $\mu$ F
C453	ECA2AM100B ELECT	100V 10 $\mu$ F
C455	ECEA1HN100 ELECT	50V 10 $\mu$ F
C456	ECQV1104JZ3 FILM	100V 100nF
C457	ECUV1H102JCX S.M.CAP	50V 1nF
C461	ECUV1C224KBX S.M.CAP	16V 220nF
C462	ECKC3A471J CERAMIC	1KV 470pF $\Delta$
C463	ECUV1H102KBX S.M.CAP	50V 1nF
C464	ECKC1H102J CERAMIC	50V 1000pF
C501	ECQM1H224J FILM	50V 220nF
C502	ECQM2683JZ FILM	250V 68nF
C503	ECKC2H102J CERAMIC	500V 1nF $\Delta$
C504	ECQB1H223K FILM	50V 22nF
C552	ECWH15H102J FILM	1500V 1nF
C553	ECQP1223JZW FILM	100V 22nF
C555	ECWH15H822J FILM	1500V 8.2nF
C556	ECEA2CNR47SB ELECT	160V R47 $\mu$ F
C557	ECKC2H331J CERAMIC	500V 330pF $\Delta$
C558	ECA2EM330B ELECT	250V 33 $\mu$ F
C559	ECKC2H101J CERAMIC	500V 100pF $\Delta$
C560	ECA1EM332E ELECT	25V 3.3 $\mu$ F
C561	ECKC2H561J CERAMIC	500V 560pF $\Delta$
C562	ECA1JM220B ELECT	63V 22 $\mu$ F
C563	ECWF2564JBK FILM	200V 0.56 $\mu$ F
C564	ECKC1H472J CERAMIC	50V 4.7nF
C565	ECQP1223JZW FILM	100V 22nF
C571	ECQV1H105JZ FILM	50V 1 $\mu$ F
C572	ECWH15H822J FILM	1500V 8.2nF
C573	ECQF4393JZH FILM	400V 0.039 $\mu$ F
C574	ECWF2824JBB FILM	200V 0.82 $\mu$ F
C575	ECWF2564JBB FILM	200V 0.56 $\mu$ F
C577	ECWF4564JBB FILM	400V 0.56 $\mu$ F
C580	ECKC1H103JB CERAMIC	50V 10nF
C581	ECQF4273JZH FILM	400V 0.027 $\mu$ F
C584	ECKC3D331J CERAMIC	2KV 330pF $\Delta$
C585	ECKC3A471J CERAMIC	1KV 470pF $\Delta$
C586	ECKC1H103JB CERAMIC	50V 10nF
C587	ECA2VM010B ELECT	350V 1 $\mu$ F
C601	ECUV1H104ZFX S.M.CAP	50V 100nF
C602	ECUV1H104ZFX S.M.CAP	50V 100nF
C603	ECUV1H104ZFX S.M.CAP	50V 100nF
C604	ECUV1H104ZFX S.M.CAP	50V 100nF
C605	ECUV1H104ZFX S.M.CAP	50V 100nF
C606	ECUV1H104ZFX S.M.CAP	50V 100nF
C608	ECUV1H104ZFX S.M.CAP	50V 100nF
C609	ECUV1H180JCX S.M.CAP	50V 18pF
C610	ECUV1H150JCX S.M.CAP	50V 15pF
C611	ECUV1H104ZFX S.M.CAP	50V 100nF
C612	ECUV1H332ZFX S.M.CAP	50V 3.3nF
C613	ECUV1C474ZFX S.M.CAP	16V 0.47 $\mu$ F
C614	ECUV1H332ZFX S.M.CAP	50V 3.3nF
C615	ECUV1H104ZFX S.M.CAP	50V 100nF
C616	ECUV1H104ZFX S.M.CAP	50V 100nF
C617	ECA1CM220GB ELECT	16V 22 $\mu$ F
C618	ECUV1H104ZFX S.M.CAP	50V 100nF
C619	ECUV1H104ZFX S.M.CAP	50V 100nF
C620	ECUV1H104ZFX S.M.CAP	50V 100nF
C621	ECUV1H104ZFX S.M.CAP	50V 100nF
C622	ECUV1H104ZFX S.M.CAP	50V 100nF
C623	ECUV1H103ZFX S.M.CAP	50V 10nF
C624	ECUV1H103ZFX S.M.CAP	50V 10nF
C625	ECUV1H103ZFX S.M.CAP	50V 10nF
C626	ECUV1H103ZFX S.M.CAP	50V 10nF
C627	ECUV1H103ZFX S.M.CAP	50V 10nF
C628	ECUV1H103ZFX S.M.CAP	50V 10nF
C629	ECUV1H103ZFX S.M.CAP	50V 10nF
C630	ECUV1H103ZFX S.M.CAP	50V 10nF

Ref No.	Part No.	Description	
C631	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C632	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C633	ECUV1H470JCX	S.M.CAP 50V 47pF	
C634	ECA1CM221GB	ELECT 16V 220µF	
C635	ECA1HM220GB	ELECT 50V 22µF	
C636	ECA1HM010GB	ELECT 50V 1µF	
C637	ECQM1H224J	FILM 50V 220nF	
C638	ECA1HM010GB	ELECT 50V 1µF	
C639	ECQM1H224J	FILM 50V 220nF	
C640	ECQM1H224J	FILM 50V 220nF	
C641	ECQM1H224J	FILM 50V 220nF	
C642	ECA1AM470GB	ELECT 10V 47µF	
C643	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C644	ECA1CM470GB	ELECT 16V 47µF	
C645	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C646	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C647	ECEA1CN470	ELECT 16V 47µF	
C648	ECEA1CN470	ELECT 16V 47µF	
C651	ECUV1H181JCX	S.M.CAP 50V 180pF	
C654	ECUV1H393KBX	S.M.CAP 50V 39nF	
C655	ECUV1E563KBX	S.M.CAP 25V 56nF	
C657	ECUV1C474ZFX	S.M.CAP 16V 0.47µF	
C659	ECUV1H821KBX	S.M.CAP 50V 820pF	
C661	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C662	ECUV1H470JCX	S.M.CAP 50V 47pF	
C663	ECUV1H150JCX	S.M.CAP 50V 15pF	
C664	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C665	ECUV1H103KBX	S.M.CAP 50V 10nF	
C703	ECUV1C224KBX	S.M.CAP 16V 220nF	
C705	ECUV1H101JCX	S.M.CAP 50V 100pF	
C706	ECUV1H821KBX	S.M.CAP 50V 820pF	
C752	ECKC2H103J	CERAMIC 50V 10nF	△
C803	ECQE2A474MWB	FILM 100V 0.47µF	
C806	ECQE6103KFW	FILM 600V 10nF	
C807	ECQB1H473K	FILM 50V 47nF	
C808	ECQB1H333J	FILM 50V 33nF	
C810	222233510154	CAPACITOR 0.15µF	
C811	ECQB1H104J	FILM 50V 100nF	
C812	ECQB1H562K	FILM 50V 5.6nF	
C813	ECKC2H472J	CERAMIC 500V 4.7nF	△
C814	ECKC2H472J	CERAMIC 500V 4.7nF	△
C816	ECQB1H122J	FILM 50V 1.2nF	
C817	ECKC2H472J	CERAMIC 500V 4.7nF	△
C818	ECKC2H472J	CERAMIC 500V 4.7nF	△
C819	ECOS2GA271DB	ELECT 400V 270pF	
C821	ECQB1H222J	FILM 50V 2200pF	
C822	ECKC3D471JB	CERAMIC 2KV 470pF	△
C823	EEµF		
C824	ECQB1H121KF3	FILM 50V 120pF	
C826	ECQB1H473K	FILM 50V 47nF	
C827	ECKCNS332J	CERAMIC 1.2KV 3.3nF	△
C833	ECQB1H682K	FILM 50V 6.8nF	
C835	ECQB1H332K	FILM 50V 3.3nF	
C848	ECKC2H471J	CERAMIC 500V 470pF	△
C849	ECKC2H471J	CERAMIC 500V 470pF	△
C851	ECQM1H104J	FILM 50V 100nF	
C852	ECKC3D222JB	CERAMIC 2KV 2200pF	△
C853	ECA1CM471GB	ELECT 16V 470µF	
C854	ECA1EM471GB	ELECT 25V 470µF	
C855	ECEA1HU102	ELECT 50V 1000µF	
C856	ECEA1HU471	ELECT 50V 470µF	
C857	ECA1EM471GB	ELECT 25V 470µF	
C858	ECOS2EA271BB	ELECT 250V 270pF	
C859	ECKC2H471J	CERAMIC 500V 470pF	△
C861	ECOS2EA221AB	ELECT 250V 220µF	
C863	ECA1EM222GB	ELECT 25V 2.2µF	
C864	ECA0JM102GB	ELECT 6.3V 1µF	
C866	ECA1HM101GB	ELECT 50V 100µF	
C867	ECA1CM222GB	ELECT 16V 2200µF	
C868	ECA1CM100GB	ELECT 16V 10µF	
C871	ECA0JM102GB	ELECT 6.3V 1µF	
C872	ECA1CM222GB	ELECT 16V 2200µF	

Ref No.	Part No.	Description	
C874	ECKC1H102J	CERAMIC 50V 1000pF	
C901	ECUV1H030CCX	S.M.CAP 50V 30pF	
C902	ECA1HM101GB	ELECT 50V 100µF	
C903	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C904	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C905	ECA1HM4R7GB	ELECT 50V 4.7µF	
C906	ECUV1H471KBX	S.M.CAP 50V 470pF	
C908	ECUV1H151JCX	S.M.CAP 50V 150pF	
C909	ECKC2H472J	CERAMIC 500V 4.7nF	△
C910	ECKC1H472J	CERAMIC 50V 4.7nF	
C911	ECUV1H151JCX	S.M.CAP 50V 150pF	
C912	ECEA2CU100	ELECT 160V 10µF	
C913	ECA1HM101GB	ELECT 50V 100µF	
C914	ECA1HM101GB	ELECT 50V 100µF	
C915	ECA1CM471GB	ELECT 16V 470µF	
C916	ECEA2EU100	ELECT 250V 10µF	
C1051	ECKC1H101J	CERAMIC 50V 100pF	
C1052	ECA1VM470B	ELECT 35V 47µF	
C1053	ECKC1H103JB	CERAMIC 50V 10nF	
C1102	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1103	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1104	ECA0JM101G	ELECT 6.3V 100µF	
C1105	ECUV1H330JCX	S.M.CAP 50V 33pF	
C1106	ECUV1H330JCX	S.M.CAP 50V 33pF	
C1107	ECUV1H391JCX	S.M.CAP 50V 390pF	
C1108	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C1109	ECUV1H472KBX	S.M.CAP 50V 4.7nF	
C1110	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1111	ECUV1H101JCX	S.M.CAP 50V 100pF	
C1112	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C1113	ECUV1H102JCX	S.M.CAP 50V 1nF	
C1114	ECUV1H102JCX	S.M.CAP 50V 1nF	
C1115	ECUV1H102JCX	S.M.CAP 50V 1nF	
C1126	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1127	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1129	ECA1AM470GB	ELECT 10V 47µF	
C1130	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1131	ECUV1H101JCX	S.M.CAP 50V 100pF	
C1133	ECUV1C184KBX	S.M.CAP 16V 0.18µF	
C1134	ECUV1H103KBX	S.M.CAP 50V 10nF	
C1135	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C1136	ECUV1H101JCX	S.M.CAP 50V 100pF	
C1137	ECUV1H102KBX	S.M.CAP 50V 1nF	
C1138	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1304	ECUV1H103ZFX	S.M.CAP 50V 10nF	
C1305	ECA1HM101GB	ELECT 50V 100µF	
C1317	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1321	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1322	ECUV1H101JCX	S.M.CAP 50V 100pF	
C1327	ECUV1H104ZFX	S.M.CAP 50V 100nF	
C1508	ECUV1H103KBX	S.M.CAP 50V 10nF	
C1509	ECA1VM470B	ELECT 35V 47µF	
C1518	ECA1HM101GB	ELECT 50V 100µF	
C1519	ECA1HM101GB	ELECT 50V 100µF	
C1520	ECA1HM101GB	ELECT 50V 100µF	
C1521	ECUV1H560JCX	S.M.CAP 50V 56pF	
C1524	ECUV1H470JCX	S.M.CAP 50V 47pF	
C1525	ECUV1H391JCX	S.M.CAP 50V 390pF	
C1528	ECUV1H560JCX	S.M.CAP 50V 56pF	
C1529	ECUV1H470JCX	S.M.CAP 50V 47pF	
C1531	ECUV1H391JCX	S.M.CAP 50V 390pF	
C1532	ECUV1H680JCX	S.M.CAP 50V 68pF	
C1533	ECUV1H560JCX	S.M.CAP 50V 56pF	
C1534	ECUV1H271JCX	S.M.CAP 50V 270pF	
C1537	ECA0JM102GB	ELECT 6.3V 1µF	
C1538	ECUV1H101JCX	S.M.CAP 50V 100pF	
C1539	ECUV1H821KBX	S.M.CAP 50V 820pF	
C1540	ECUV1H101JCX	S.M.CAP 50V 100pF	
C1541	ECUV1H821KBX	S.M.CAP 50V 820pF	
C1542	ECUV1H101JCX	S.M.CAP 50V 100pF	
C1543	ECUV1H391JCX	S.M.CAP 50V 390pF	
C1552	ECUV1H104ZFX	S.M.CAP 50V 100nF	

Ref No.	Part No.	Description
C1553	ECUV1H220JCX S.M.CAP	50V 22pF
C1554	ECUV1H104ZFX S.M.CAP	50V 100nF
C1555	ECA0JM331GB ELECT	6.3V 330µF
C1556	ECUV1H270JCX S.M.CAP	50V 27pF
C1557	ECUV1H270JCX S.M.CAP	50V 27pF
C1558	ECUV1H104ZFX S.M.CAP	50V 100nF
C1559	ECUV1H103KBX S.M.CAP	50V 10nF
C1560	ECUV1H103KBX S.M.CAP	50V 10nF
C1561	ECUV1H104ZFX S.M.CAP	50V 100nF
C1562	ECA0JM331GB ELECT	6.3V 330µF
C1564	ECUV1H104ZFX S.M.CAP	50V 100nF
C1575	ECUV1H104ZFX S.M.CAP	50V 100nF
C1576	ECUV1H104ZFX S.M.CAP	50V 100nF
C1577	ECA1HM101GB ELECT	50V 100µF
C1579	ECUV1H104ZFX S.M.CAP	50V 100nF
C1580	ECUV1H104ZFX S.M.CAP	50V 100nF
C1583	ECUV1H104ZFX S.M.CAP	50V 100nF
C1584	ECUV1H104ZFX S.M.CAP	50V 100nF
C1585	ECUV1H104ZFX S.M.CAP	50V 100nF
C1586	ECUV1H104ZFX S.M.CAP	50V 100nF
C1588	ECA1VM470B ELECT	35V 47µF
C1590	ECUV1H104ZFX S.M.CAP	50V 100nF
C1591	ECUV1H104ZFX S.M.CAP	50V 100nF
C1592	ECUV1H104ZFX S.M.CAP	50V 100nF
C1593	ECA1HM101GB ELECT	50V 100µF
C1594	ECUV1H104ZFX S.M.CAP	50V 100nF
C1595	ECUV1H104ZFX S.M.CAP	50V 100nF
C1596	ECUV1H104ZFX S.M.CAP	50V 100nF
C1599	ECA1HM101GB ELECT	50V 100µF
C1601	ECUV1H104ZFX S.M.CAP	50V 100nF
C1602	ECUV1H104ZFX S.M.CAP	50V 100nF
C1603	ECUV1H103KBX S.M.CAP	50V 10nF
C1604	ECUV1H104ZFX S.M.CAP	50V 100nF
C1605	ECUV1H104ZFX S.M.CAP	50V 100nF
C1606	ECUV1H104ZFX S.M.CAP	50V 100nF
C1607	ECUV1H104ZFX S.M.CAP	50V 100nF
C1608	ECA1HM101GB ELECT	50V 100µF
C1610	ECUV1H104ZFX S.M.CAP	50V 100nF
C1611	ECUV1H103KBX S.M.CAP	50V 10nF
C1612	ECUV1H104ZFX S.M.CAP	50V 100nF
C1613	ECUV1H104ZFX S.M.CAP	50V 100nF
C1614	ECUV1H104ZFX S.M.CAP	50V 100nF
C1616	ECUV1H152JCX S.M.CAP	50V 1.5pF
C1617	ECUV1H104ZFX S.M.CAP	50V 100nF
C1618	ECUV1H104ZFX S.M.CAP	50V 100nF
C1619	ECUV1H104ZFX S.M.CAP	50V 100nF
C1620	ECUV1H104ZFX S.M.CAP	50V 100nF
C1621	ECA1HM101GB ELECT	50V 100µF
C1622	ECUV1H104ZFX S.M.CAP	50V 100nF
C1625	ECEA1CN470 ELECT	16V 47µF
C1627	ECUV1H560JCX S.M.CAP	50V 56pF
C1628	ECUV1H221JCX S.M.CAP	50V 220pF
C1630	ECUV1H560JCX S.M.CAP	50V 56pF
C1631	ECUV1H221JCX S.M.CAP	50V 220pF
C1632	ECUV1H080DCX S.M.CAP	50V 80pF
C1633	ECUV1H220JCX S.M.CAP	50V 22pF
C1634	ECUV1H121JCX S.M.CAP	50V 120pF
C1641	ECA1VM470B ELECT	35V 47µF
C1642	ECUV1H104ZFX S.M.CAP	50V 100nF
C1671	ECUV1H330JCX S.M.CAP	50V 33pF
C2001	ECA1CM100GB ELECT	16V 10µF
C2002	ECUV1H104ZFX S.M.CAP	50V 100nF
C2003	ECUV1H104ZFX S.M.CAP	50V 100nF
C2004	ECUV1H102JCX S.M.CAP	50V 1nF
C2005	ECUV1H391JCX S.M.CAP	50V 390pF
C2006	ECUV1H391JCX S.M.CAP	50V 390pF
C2007	ECUV1H102JCX S.M.CAP	50V 1nF
C2008	ECUV1H102JCX S.M.CAP	50V 1nF
C2009	ECUV1H102JCX S.M.CAP	50V 1nF
C2010	ECUV1H102JCX S.M.CAP	50V 1nF
C2011	ECUV1H102JCX S.M.CAP	50V 1nF
C2012	ECUV1H102JCX S.M.CAP	50V 1nF

Ref No.	Part No.	Description
C2014	ECQM1H334J FILM	50V 330nF
C2017	ECA1CM100GB ELECT	16V 10µF
C2018	ECA1CM100GB ELECT	16V 10µF
C2019	ECA1CM221GB ELECT	16V 220µF
C2020	ECUV1H104ZFX S.M.CAP	50V 100nF
C2021	ECUV1H104ZFX S.M.CAP	50V 100nF
C2022	ECA1HM3R3GB ELECT	50V 3.3µF
C2023	ECUV1H471JCX S.M.CAP	50V 470pF
C2024	ECUV1H471JCX S.M.CAP	50V 470pF
C2025	ECUV1H221JCX S.M.CAP	50V 220pF
C2026	ECUV1H221JCX S.M.CAP	50V 220pF
C2027	ECUV1H221JCX S.M.CAP	50V 220pF
C2028	ECUV1H221JCX S.M.CAP	50V 220pF
C2029	ECUV1H221JCX S.M.CAP	50V 220pF
C2030	ECUV1H221JCX S.M.CAP	50V 220pF
C2031	ECUV1H104ZFX S.M.CAP	50V 100nF
C2032	ECA1CM100GB ELECT	16V 10µF
C2034	ECUV1H070DCX S.M.CAP	50V 7pF
C2035	ECUV1H560JCX S.M.CAP	50V 56pF
C2036	ECUV1H100DCX S.M.CAP	50V 10pF
C2037	ECUV1H220JCX S.M.CAP	50V 22pF
C2039	ECUV1H070DCX S.M.CAP	50V 7pF
C2040	ECUV1H560JCX S.M.CAP	50V 56pF
C2041	ECUV1H560JCX S.M.CAP	50V 56pF
C2042	ECUV1H104ZFX S.M.CAP	50V 100nF
C2043	ECA1CM100GB ELECT	16V 10µF
C2044	ECUV1H010CCX S.M.CAP	50V 1pF
C2045	ECUV1H010CCX S.M.CAP	50V 1pF
C2050	ECUV1H223ZFX S.M.CAP	50V 22nF
C2051	ECUV1H223ZFX S.M.CAP	50V 22nF
C2052	ECUV1H103ZFX S.M.CAP	50V 10nF
C2053	ECUV1H103ZFX S.M.CAP	50V 10nF
C2054	ECA1CM331B ELECT	16V 330µF
C2055	ECA1CM331B ELECT	16V 330µF
C2058	ECUV1H683ZFX S.M.CAP	50V 68nF
C2059	ECUV1H102KBX S.M.CAP	50V 1nF
C2060	ECUV1H102KBX S.M.CAP	50V 1nF
C2351	ECA1CM471GB ELECT	16V 470µF
C2352	ECA1CM471GB ELECT	16V 470µF
C2353	ECA1HM4R7GB ELECT	50V 4.7µF
C2354	ECKC1H103JB CERAMIC	50V 10nF
C2355	ECA1HMR33GB ELECT	50V 0.33µF
C2356	ECKC1H103JB CERAMIC	50V 10nF
C2360	ECKC1H103JB CERAMIC	50V 10nF
C2361	ECA1CM471GB ELECT	16V 470µF
C2362	ECA1CM471GB ELECT	16V 470µF
C2363	ECA1HM4R7GB ELECT	50V 4.7µF
C2364	ECKC1H103JB CERAMIC	50V 10nF
C2365	ECA1HMR33GB ELECT	50V 0.33µF
C2366	ECKC1H103JB CERAMIC	50V 10nF
C3001	ECKC1H561J CERAMIC	50V 560pF
C3002	ECKC1H561J CERAMIC	50V 560pF
C3005	ECKC1H151J CERAMIC	50V 150pF
C3101	ECEA1HN4R7UB ELECT	50V 4.7µF
C3102	ECA1HM470GB ELECT	50V 47µF
C3103	ECA1CM470GB ELECT	16V 47µF
C3105	ECUV1H561JCX S.M.CAP	50V 560pF
C3107	ECA1HM470GB ELECT	50V 47µF
C3108	ECA1CM470GB ELECT	16V 47µF
C3109	ECUV1H561JCX S.M.CAP	50V 560pF
C3111	ECUV1H102JCX S.M.CAP	50V 1nF
C3112	ECA1HM470GB ELECT	50V 47µF
C3113	ECA1HM470GB ELECT	50V 47µF
C3114	ECA1CM470GB ELECT	16V 47µF
C3115	ECEA1HNR47UB ELECT	50V 0.47µF
C3116	ECA1HM470GB ELECT	50V 47µF
C3117	ECEA1HN4R7UB ELECT	50V 4.7µF
C3118	ECEA1HN4R7UB ELECT	50V 4.7µF
C3119	ECA1HM470GB ELECT	50V 47µF
C3120	ECA1CM470GB ELECT	16V 47µF
C3121	ECUV1H561JCX S.M.CAP	50V 560pF
C3123	ECEA1HN4R7UB ELECT	50V 4.7µF



Ref No.	Part No.	Description			
C3124	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3126	ECEA1HN4R7UB	ELECT	50V	4.7µF	
C3127	ECEA1HN4R7UB	ELECT	50V	4.7µF	
C3128	ECEA1HN4R7UB	ELECT	50V	4.7µF	
C3129	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3130	ECEA1HN4R7UB	ELECT	50V	4.7µF	
C3131	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3132	ECA1CM470GB	ELECT	16V	47µF	
C3133	ECA1CM470GB	ELECT	16V	47µF	
C3134	ECA1CM470GB	ELECT	16V	47µF	
C3135	ECA1HMR47GB	ELECT	50V	0.47µF	
C3136	ECA1CM470GB	ELECT	16V	47µF	
C3137	ECA1HM470GB	ELECT	50V	47µF	
C3138	ECA1HM470GB	ELECT	50V	47µF	
C3139	ECUV1H222JCX	S.M.CAP	50V	2.2nF	
C3140	ECUV1H222JCX	S.M.CAP	50V	2.2nF	
C3143	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3146	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3148	ECA1HM4R7GB	ELECT	50V	4.7µF	
C3149	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3150	ECA1HM4R7GB	ELECT	50V	4.7µF	
C3151	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3154	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3156	ECA1CM470GB	ELECT	16V	47µF	
C3158	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3160	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3162	ECA1CM471GB	ELECT	16V	470µF	
C3163	ECA1HMR47GB	ELECT	50V	0.47µF	
C3165	ECA1HM470GB	ELECT	50V	47µF	
C3169	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3170	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3172	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3173	ECA1HMR47GB	ELECT	50V	0.47µF	
C3174	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3178	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3180	ECA1HMR47GB	ELECT	50V	0.47µF	
C3181	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
C3182	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3183	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
C3184	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3185	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
C3186	ECEA1HNR47UB	ELECT	50V	0.47µF	
C3187	ECA1HM470GB	ELECT	50V	47µF	
C3188	ECEA1CN470	ELECT	16V	47µF	
C3189	ECEA1CN470	ELECT	16V	47µF	
C3190	ECA1HMR47GB	ELECT	50V	0.47µF	
C3191	ECA1HM470GB	ELECT	50V	47µF	
C3192	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3193	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3194	ECA1HM470GB	ELECT	50V	47µF	
C3201	ECA1HM010GB	ELECT	50V	1µF	
C3202	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3203	ECA1CM100GB	ELECT	16V	10µF	
C3204	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3501	ECUV1H220JCX	S.M.CAP	50V	22pF	
C3502	ECUV1H220JCX	S.M.CAP	50V	22pF	
C3503	ECEA1HKN010	ELECT	50V	1µF	
C3504	ECUV1H224ZFX	S.M.CAP	50V	0.22µF	
C3510	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C3511	ECA1HM101GB	ELECT	50V	100µF	
C3512	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3514	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3515	ECA0JM331GB	ELECT	6.3V	330µF	
C3516	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3521	ECA1HM101GB	ELECT	50V	100µF	
C3522	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3801	ECA1HM010GB	ELECT	50V	1µF	
C3802	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3803	ECA1CM471GB	ELECT	16V	470µF	
C3807	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3808	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3809	ECA0JM101G	ELECT	6.3V	100µF	

Ref No.	Part No.	Description			
C3810	ECUV1H103KBX	S.M.CAP	50V	10nF	
C3812	ECA1CM221GB	ELECT	16V	220µF	
C3813	ECUV1H471JCX	S.M.CAP	50V	470pF	
<b>DIODES</b>					
D001	MA4020	DIODE			
D002	MA4020	DIODE			
D103	BA582	DIODE			
D104	BA582	DIODE			
D251	MA165TA5	DIODE 1SS133T-77			
D252	MA165TA5	DIODE 1SS133T-77			
D253	MA165TA5	DIODE 1SS133T-77			
D254	MA165TA5	DIODE 1SS133T-77			
D354	ERA15-04V3	COIL			
D355	ERA15-04V3	COIL			
D356	ERA15-04V3	COIL			
D357	MA165TA5	DIODE 1SS133T-77			
D358	MA165TA5	DIODE 1SS133T-77			
D359	MA165TA5	DIODE 1SS133T-77			
D360	MA4150	DIODE			
D361	MA165TA5	DIODE 1SS133T-77			
D401	MA165TA5	DIODE 1SS133T-77			
D451	MA4056	DIODE			
D452	MA2330-ALF	DIODE			
D453	TVSEM01ZV0	DIODE			
D457	1SS252T-77	DIODE			
D502	1SS254T-77	DIODE			
D503	EU02	DIODE			
D531	1SS254T-77	DIODE			
D532	1SS254T-77	DIODE			
D533	1SS254T-77	DIODE			
D556	AU02V0	DIODE			
D557	ERC91-02L9	DIODE			
D558	AU02V0	DIODE			
D559	MTZJT-7736A	DIODE			
D560	1SS252T-77	DIODE			
D561	1SS254T-77	DIODE			
D571	FMV-3GULF027	DIODE			
D573	1SS254T-77	DIODE			
D574	1SS252T-77	DIODE			
D575	1SS252T-77	DIODE			
D602	MA165TA5	DIODE 1SS133T-77			
D603	MA165TA5	DIODE 1SS133T-77			
D604	MA4062	DIODE			
D706	MA165TA5	DIODE 1SS133T-77			
D707	MA188TA	DIODE			
D807	D6SB80LF-B	DIODE			
D809	ERA22-02V3	DIODE			
D810	MA2160LFS	DIODE			
D812	MTZJT-775.6B	DIODE			
D813	MA700TA5	DIODE			
D814	AU01ZV0	DIODE			
D815	PC123FY2	DIODE			
D818	TMPG10G3	DIODE			
D819	ERA81004V3	DIODE			
D820	MA4100	DIODE			
D821	EU02AV0	DIODE			
D822	MTZJT-7718C	DIODE			
D845	1SS254T-77	DIODE			
D846	TVSS1WBS20	DIODE			
D847	ERA15-01V1	DIODE			
D848	ERB32-02E	DIODE RU30LFS1			
D849	FMGG26S	DIODE			
D850	EU02	DIODE			
D851	FMGG2CS	DIODE			
D852	MA4091	DIODE			
D853	1SS254T-77	DIODE			
D854	1SS254T-77	DIODE			
D855	D10SC6MRL	DIODE			
D857	YG901C2RF105	DIODE			

Ref No.	Part No.	Description			
D860	1SS254T-77	DIODE			
D861	MTZJT-7713B	DIODE			
D862	MA4104	DIODE			
D901	MA165TA5	DIODE 1SS133T-77			
D902	MA165TA5	DIODE 1SS133T-77			
D903	MA165TA5	DIODE 1SS133T-77			
D1051	LN81RPHL	DIODE			
D1102	MA4051	DIODE			
D1107	MTZJT-775.6A	DIODE			
D1108	1SS254T-77	DIODE			
D1109	1SS254T-77	DIODE			
D1113	MA4051	DIODE			
D1552	MA151ATX	DIODE			
D2005	MA723TA5	DIODE			
D2006	MA723TA5	DIODE			
D3101	PMLL5242B	DIODE			
D3102	PMLL5242B	DIODE			
D3103	PMLL5242B	DIODE			
D3104	PMLL5242B	DIODE			
D3105	PMLL5242B	DIODE			
D3107	PMLL5242B	DIODE			
D3108	PMLL5242B	DIODE			
D3109	PMLL5242B	DIODE			
D3110	PMLL5242B	DIODE			
D3111	PMLL5242B	DIODE			
D3112	PMLL5242B	DIODE			
D3115	PMLL5242B	DIODE			
D3117	PMLL5242B	DIODE			
D3120	RLS72TE-11	DIODE OR PMLL4148			
D3121	RLS72TE-11	DIODE OR PMLL4148			
D3501	MA4030	DIODE			
D3801	MA4043	DIODE			
D3802	MTZJT-778.2A	DIODE			
D3803	ERA81004V3	DIODE			
D3805	MA4091	DIODE			
D3806	MA165TA5	DIODE 1SS133T-77			
D3807	MA165TA5	DIODE 1SS133T-77			
<b>FUSES</b>					
F531	TR5-T1000	FUSE			△
F845	TR5-T2000	FUSE			△
F846	TR5-T1250	FUSE			△
F8011	EYF52BC	FUSE HOLDER			
F8012	EYF52BC	FUSE HOLDER			
<b>TERMINALS AND LINKS</b>					
JA1	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JA2	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JA3	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JA5	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JA6	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JA7	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JA8	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JA9	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JK3001	TJB16656	A.V. TERMINAL			
JSB3	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE010	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE011	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE012	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE015	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE022	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE023	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE024	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE025	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE028	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE03	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE042	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE049	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	

Ref No.	Part No.	Description			
JSE056	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE057	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE058	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE062	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE064	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE066	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE07	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSE09	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF001	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF002	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF003	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF004	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF005	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF006	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF009	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF010	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF013	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF014	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF015	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF036	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF037	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF039	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF040	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF041	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF042	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF044	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF045	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF046	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF048	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF049	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF050	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF051	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF055	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF057	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF058	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF064	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF065	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF072	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF073	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF076	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF077	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF080	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF081	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF086	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF087	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF088	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSF089	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSH004	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSH005	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSH01	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSH010	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
JSH02	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω	
<b>COILS</b>					
LC1507	EXCEMT103DTM	COIL			
LC1508	EXCEMT103DTM	COIL			
LC1509	EXCEMT103DTM	COIL			
LC1510	EXCEMT103DTM	COIL			
LC1610	ELKTR560BA	DELAY LINE			
L002	TLT047K991R	COIL			
L004	TLT047K991R	COIL			
L005	TLT047K991R	COIL			
L102	TLT056K991R	COIL			
L103	EQV7EN203B	COIL			
L105	ELESNR22MA	COIL			
L107	ELESNR22MA	COIL			
L108	ELESNR22MA	COIL			
L109	EIL7EN015Q	COIL			
L110	EQL7EN022Q	COIL			
L113	EIL7EN015Q	COIL			

Ref No.	Part No.	Description
L252	EXCELSA35T	COIL
L253	EXCELSA35T	COIL
L254	EXCELSA35T	COIL
L255	EXCELSA35T	COIL
L352	SDL-4101	COIL
L353	SDL-4101	COIL
L354	SDL-4101	COIL
L401	EXCELDR35V	COIL
L402	EXCELDR35V	COIL
L451	EXCELDR35V	COIL
L552	EXCELSA35T	COIL
L553	EXCELSA35T	COIL
L554	EXCELDR35V	COIL
L555	ERD25TC0T	CARBON 0.25W 5% 0Ω
L571	ELC18B801L	COIL
L573	ELHKLBO34B	COIL
L575	ELC18B801L	COIL
L578	ELC08D055	COIL
L601	TLT047K991R	COIL
L602	TLT047K991R	COIL
L603	TLT047K991R	COIL
L605	EXCELDR25V	COIL
L801	ELF18D486D	COIL
L807	ELF18D860D	LINE FILTER
L809	EXCELDR35C	COIL
L810	EXCELSA39V	COIL
L811	EXCELSA39V	COIL
L812	EXCELDR35V	COIL
L813	EXCELDR35V	COIL
L817	EXCELDR35V	COIL
L845	EXCELSA35T	COIL
L847	EXCELSA35B	COIL
L848	EXCELSA35T	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35B	COIL
L854	ELEIE150KA	COIL
L856	EXCELSA35T	COIL
L859	EXCELSA35T	COIL
L860	EXCELSA35T	COIL
L861	EXCELSA35T	COIL
L862	EXCELSA35T	COIL
L864	EXCELDR35V	COIL
L901	EXCELSA24T	COIL
L902	EXCELSA24T	COIL
L1102	EXCELDR35V	COIL
L1103	EXCELDR35V	COIL
L1104	EXCELSA35T	COIL
L1105	ELEXT4R7KA	COIL
L1302	TLT100K991R	COIL
L1304	TLT100K991R	COIL
L1307	ERD25TC0T	CARBON 0.25W 5% 0Ω
L1501	EXCELDR35V	COIL
L1502	ELESN3R3JA	COIL
L1503	ELESN3R3JA	COIL
L1504	TLT018K991R	COIL
L1505	ELESN6R8JA	COIL
L1506	ELESN6R8JA	COIL
L1507	ELESN3R3JA	COIL
L1552	EXCELDR35V	COIL
L1553	EXCELDR35V	COIL
L1575	EXCELDR35V	COIL
L1576	EXCELDR35V	COIL
L1601	EXCELDR35V	COIL
L1602	EXCELDR35V	COIL
L1603	TLT100K991R	COIL
L1604	TLT100K991R	COIL
L1605	TLT100K991R	COIL
L1606	TLT100K991R	COIL
L1607	EXCELDR35V	COIL
L1621	ELESN6R8JA	COIL
L1622	ELESN6R8JA	COIL
L1623	ELESN3R3JA	COIL

Ref No.	Part No.	Description
L1641	EXCELDR35V	COIL
L2001	TLT047K991R	COIL
L2003	EXCELDR35V	COIL
L2004	TLT068K991R	COIL
L2005	TLT068K991R	COIL
L2351	ELEBR6R8KA	COIL
L2361	ELEBR6R8KA	COIL
L3001	ELEBR6R8KA	COIL
L3002	ELEBR6R8KA	COIL
L3003	ELEBR470KA	COIL
L3101	EXCELDR35V	COIL
L3102	EXCELDR35V	COIL
L3103	EXCELDR35V	COIL
L3104	EXCELDR35V	COIL
L3107	EXCELDR35V	COIL
L3108	EXCELDR35V	COIL
L3109	EXCELDR35V	COIL
L3110	EXCELDR35V	COIL
L3111	EXCELDR35V	COIL
L3112	EXCELDR35V	COIL
L3113	EXCELDR35V	COIL
L3114	EXCELDR35V	COIL
L3503	EXCELDR35V	COIL
L3507	EXCELDR35V	COIL
L3509	EXCELDR35V	COIL
L3511	TLT100K991R	COIL

### TRANSISTORS

Q008	BC847B	TRANSISTOR OR 2SD601ATX
Q101	BC847B	TRANSISTOR OR 2SD601ATX
Q102	BC847B	TRANSISTOR OR 2SD601ATX
Q103	BC847B	TRANSISTOR OR 2SD601ATX
Q104	BC847B	TRANSISTOR OR 2SD601ATX
Q105	BC847B	TRANSISTOR OR 2SD601ATX
Q106	BF799E6327	CHIP TRANSISTOR
Q107	BC847B	TRANSISTOR OR 2SD601ATX
Q108	BC847B	TRANSISTOR OR 2SD601ATX
Q109	BC860B	TRANSISTOR
Q251	BC847B	TRANSISTOR OR 2SD601ATX
Q252	BC847B	TRANSISTOR OR 2SD601ATX
Q351	2SA1767	TRANSISTOR
Q352	2SA1767	TRANSISTOR
Q353	2SA1767	TRANSISTOR
Q354	BC857B	TRANSISTOR OR 2SB709ATX
Q355	BC847B	TRANSISTOR OR 2SD601ATX
Q401	BC847B	TRANSISTOR OR 2SD601ATX
Q502	2SC2925STA	TRANSISTOR
Q531	BC547B	TRANSISTOR
Q532	BC547B	TRANSISTOR
Q533	BC547B	TRANSISTOR
Q535	BC547B	TRANSISTOR
Q551	BC547B	TRANSISTOR
Q552	BU2508AXRL	TRANSISTOR
Q553	2SC1473-RN	TRANSISTOR
Q554	2SC1473-RN	TRANSISTOR
Q572	BC547B	TRANSISTOR
Q573	BC557B	TRANSISTOR
Q574	2SD1265AOPLB	TRANSISTOR
Q601	BC847B	TRANSISTOR OR 2SD601ATX
Q602	BC857B	TRANSISTOR OR 2SB709ATX
Q603	BC847B	TRANSISTOR OR 2SD601ATX
Q604	BC857B	TRANSISTOR OR 2SB709ATX
Q605	BC857B	TRANSISTOR OR 2SB709ATX
Q606	BC847B	TRANSISTOR OR 2SD601ATX
Q607	BC847B	TRANSISTOR OR 2SD601ATX
Q608	BC847B	TRANSISTOR OR 2SD601ATX
Q609	BC847B	TRANSISTOR OR 2SD601ATX
Q610	BC847B	TRANSISTOR OR 2SD601ATX
Q611	BC847B	TRANSISTOR OR 2SD601ATX
Q612	BC847B	TRANSISTOR OR 2SD601ATX

Ref No.	Part No.	Description
Q801	2SK1365LBMAT	TRANSISTOR
Q803	2SD965-R	TRANSISTOR
Q804	2SA719-TA	TRANSISTOR
Q845	2SA684R	TRANSISTOR
Q846	BC547B	TRANSISTOR
Q847	BC557B	TRANSISTOR
Q848	BC547B	TRANSISTOR
Q849	2SA1018QTA	TRANSISTOR
Q850	2SD1474PLB	TRANSISTOR
Q851	BC547B	TRANSISTOR
Q852	BC547B	TRANSISTOR
Q901	BC847B	TRANSISTOR OR 2SD601ATX
Q902	BC847B	TRANSISTOR OR 2SD601ATX
Q903	BC847B	TRANSISTOR OR 2SD601ATX
Q904	BC857B	TRANSISTOR OR 2SB709ATX
Q905	BC847B	TRANSISTOR OR 2SD601ATX
Q906	BC847B	TRANSISTOR OR 2SD601ATX
Q907	BC857B	TRANSISTOR OR 2SB709ATX
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1052	BC557B	TRANSISTOR
Q1101	BC847B	TRANSISTOR OR 2SD601ATX
Q1102	BC847B	TRANSISTOR OR 2SD601ATX
Q1103	BC847B	TRANSISTOR OR 2SD601ATX
Q1106	BC847B	TRANSISTOR OR 2SD601ATX
Q1107	BC847B	TRANSISTOR OR 2SD601ATX
Q1108	BC847B	TRANSISTOR OR 2SD601ATX
Q1112	2SC3757QRTX	TRANSISTOR
Q1191	BC847B	TRANSISTOR OR 2SD601ATX
Q1301	BC847B	TRANSISTOR OR 2SD601ATX
Q1303	BC847B	TRANSISTOR OR 2SD601ATX
Q1501	BC847B	TRANSISTOR OR 2SD601ATX
Q1502	BC847B	TRANSISTOR OR 2SD601ATX
Q1503	BC847B	TRANSISTOR OR 2SD601ATX
Q1561	BC847B	TRANSISTOR OR 2SD601ATX
Q1575	BC847B	TRANSISTOR OR 2SD601ATX
Q1635	BC857B	TRANSISTOR OR 2SB709ATX
Q1636	BC857B	TRANSISTOR OR 2SB709ATX
Q1642	BC847B	TRANSISTOR OR 2SD601ATX
Q1643	BC847B	TRANSISTOR OR 2SD601ATX
Q1644	BC857B	TRANSISTOR OR 2SB709ATX
Q1647	BC847B	TRANSISTOR OR 2SD601ATX
Q1648	BC857B	TRANSISTOR OR 2SB709ATX
Q1649	BC857B	TRANSISTOR OR 2SB709ATX
Q1650	BC857B	TRANSISTOR OR 2SB709ATX
Q2001	BC860B	TRANSISTOR
Q2002	BC860B	TRANSISTOR
Q2003	BC860B	TRANSISTOR
Q2004	BC860B	TRANSISTOR
Q2006	BC857B	TRANSISTOR OR 2SB709ATX
Q2007	BC847B	TRANSISTOR OR 2SD601ATX
Q2351	BC547B	TRANSISTOR
Q2352	BC547B	TRANSISTOR
Q2353	BC557B	TRANSISTOR
Q2361	BC547B	TRANSISTOR
Q2362	BC547B	TRANSISTOR
Q2363	BC557B	TRANSISTOR
Q3101	BC847B	TRANSISTOR OR 2SD601ATX
Q3102	BC847B	TRANSISTOR OR 2SD601ATX
Q3103	BC847B	TRANSISTOR OR 2SD601ATX
Q3104	BC847B	TRANSISTOR OR 2SD601ATX
Q3105	BC847B	TRANSISTOR OR 2SD601ATX
Q3106	BC847B	TRANSISTOR OR 2SD601ATX
Q3107	BC857B	TRANSISTOR OR 2SB709ATX
Q3108	BC847B	TRANSISTOR OR 2SD601ATX
Q3113	BC847B	TRANSISTOR OR 2SD601ATX
Q3114	BC847B	TRANSISTOR OR 2SD601ATX
Q3115	BC857B	TRANSISTOR OR 2SB709ATX
Q3201	BC847B	TRANSISTOR OR 2SD601ATX
Q3501	BC847B	TRANSISTOR OR 2SD601ATX
Q3502	BC847B	TRANSISTOR OR 2SD601ATX
Q3503	2SC3130TX	TRANSISTOR

Ref No.	Part No.	Description
Q3801	2SD1474PLB	TRANSISTOR
<b>RESISTOR</b>		
RL571	TSEH8012	RELAY
RL806	TSE1885-1	RELAY
R003	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R006	ERJ6GEYJ393	S.M.CARB 0.1W 5% 39KΩ
R011	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R012	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R101	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R102	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R103	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R104	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R105	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R106	ERJ6GEYJ680	S.M.CARB 0.1W 5% 68Ω
R107	ERJ6GEYJ123	S.M.CARB 0.1W 5% 12KΩ
R109	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R110	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R111	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R113	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R115	ERJ6GEYJ121	S.M.CARB 0.1W 5% 120Ω
R117	ERJ6GEYJ683	S.M.CARB 0.1W 5% 68KΩ
R118	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R119	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R120	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R121	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R122	EVNDXAA03B24	CONTROL 20KΩ
R123	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R124	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R125	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R126	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R127	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R128	ERJ6GEYJ181	S.M.CARB 0.1W 5% 180Ω
R130	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R132	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R133	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R134	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R135	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R136	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R137	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R138	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R139	ERJ6GEYJ154	S.M.CARB 0.1W 5% 150KΩ
R141	ERJ6GEYJ330	S.M.CARB 0.1W 5% 33Ω
R142	ERJ6GEYJ271	S.M.CARB 0.1W 5% 270Ω
R143	ERJ6GEYJ123	S.M.CARB 0.1W 5% 12KΩ
R144	ERJ6GEYJ152	S.M.CARB 0.1W 5% 1K5Ω
R145	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R146	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R147	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R148	ERJ6GEYJ183	S.M.CARB 0.1W 5% 18KΩ
R149	ERJ6GEYJ682	S.M.CARB 0.1W 5% 6K8Ω
R150	ERJ6GEYJ221	S.M.CARB 0.1W 5% 220Ω
R151	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R152	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R154	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R156	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R157	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R159	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R251	ERJ6GEYJ2R2	SM.CARB0.125W 5% 2R2Ω
R252	ERJ6GEYJ273	S.M.CARB 0.1W 5% 27KΩ
R253	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R254	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R255	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R256	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R257	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R258	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R259	ERG3SJS120	METAL 3W 5% 12Ω ▲
R260	ERJ6GEYJ2R2	SM.CARB0.125W 5% 2R2Ω
R261	ERJ6GEYJ273	S.M.CARB 0.1W 5% 27KΩ
R262	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ

Ref No.	Part No.	Description				
R263	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R264	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R265	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R266	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R267	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R268	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R269	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R270	ERG3SJS120	METAL	3W	5%	12Ω	△
R351	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R352	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R353	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R355	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R356	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R357	ERG1SJ823	METAL	1W	5%	820Ω	
R358	ERG1SJ823	METAL	1W	5%	820Ω	
R359	ERG1SJ823	METAL	1W	5%	820Ω	
R363	ERD25TJ563	CARBON	0.25W	5%	56KΩ	
R364	ERD25TJ563	CARBON	0.25W	5%	56KΩ	
R365	ERD25TJ563	CARBON	0.25W	5%	56KΩ	
R366	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω	
R367	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω	
R368	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω	
R369	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R370	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω	
R372	ERQ12AJ181	FUSIBLE	12W	5%	180Ω	△
R373	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22Ω	
R374	ERD25TJ184	CARBON	0.25W	5%	180KΩ	
R375	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R376	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R377	ERQ1CJP1R0	FUSIBLE	1W	5%	1R0Ω	△
R381	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R382	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R383	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R384	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R385	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R386	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R387	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470KΩ	
R389	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R401	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R402	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R403	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R406	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R407	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R408	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R409	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R410	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R411	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R412	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R451	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K0Ω	
R452	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R453	ERG2FJ820	METAL	2W	5%	82Ω	△
R454	ERX12SJ1R3	METAL	12W	5%	1R3Ω	
R455	ERX12SJ1R2	METAL	12W	5%	1R2Ω	
R456	ERQ14AJ220	FUSIBLE	14W	5%	22Ω	△
R457	ERDS1TJ223	CARBON	0.5W	5%	22KΩ	
R458	ERG1SJ272	METAL	1W	5%	2K7Ω	△
R459	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R460	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R461	ERJ6GEYJ184	S.M.CARB	0.1W	5%	180KΩ	
R504	ERD25TJ271	CARBON	0.25W	5%	270Ω	
R505	ERG3SJS330	METAL	3W	5%	33Ω	△
R506	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω	
R507	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω	
R531	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R532	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R533	ERD25TJ683	CARBON	0.25W	5%	68KΩ	
R534	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R535	ERD25TJ472	CARBON	0.25W	5%	4K7Ω	
R536	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R539	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R540	ERD25TJ183	CARBON	0.25W	5%	18KΩ	

Ref No.	Part No.	Description				
R541	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R542	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R543	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R547	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R551	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R552	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R553	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R554	ERX3SJSR22	METAL	3W	5%	1R22Ω	
R555	ERO25CKF2322	METAL	25W	1%	23KΩ	△
R556	ERO50PKF2802	METAL	50W	1%	28KΩ	△
R557	ERO25CKF5112	METAL	25W	1%	51KΩ	△
R558	ERO50PKF4992	METAL	50W	1%	50KΩ	△
R559	ERD25TJ682	CARBON	0.25W	5%	6K8Ω	
R560	ERD25TJ562	CARBON	0.25W	5%	5K6Ω	
R562	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R564	ERDS1TJ394	CARBON	0.5W	5%	390KΩ	
R565	ERQ14AJW2R2	FUSIBLE	14W	5%	2R2Ω	△
R566	ERDS1TJ183	CARBON	0.5W	5%	18KΩ	
R567	ERG2ANJ223	METAL	2W	5%	22KΩ	
R568	ERQ12HJ330	METAL	0.5W	5%	33Ω	△
R569	ERDS1TJ330	CARBON	0.5W	5%	33Ω	
R570	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R571	ERX3FJ2R7H	METAL	3W	5%	2R7Ω	
R572	ERG3FJ821	METAL	3W	5%	820Ω	△
R577	ERD25TJ683	CARBON	0.25W	5%	68KΩ	
R578	ERD25TJ153	CARBON	0.25W	5%	15KΩ	
R579	ERD25TJ274	CARBON	0.25W	5%	270KΩ	
R580	ERD25TJ563	CARBON	0.25W	5%	56KΩ	
R581	ERD25TJ124	CARBON	0.25W	5%	120KΩ	
R582	ERD25TJ225	CARBON	0.25W	5%	2M2Ω	
R583	ERD25TJ225	CARBON	0.25W	5%	2M2Ω	
R584	ERD25TJ152	CARBON	0.25W	5%	1K5Ω	
R585	TSF19201	FS LINK				△
R587	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R588	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R589	ERDS1TJ100	CARBON	0.5W	5%	10Ω	
R591	ERF5AKR22	WIRE	5W	10%	R22Ω	
R593	ERQ14AJW101	METAL	0.25W	5%	100Ω	△
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R603	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R604	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R605	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R606	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R609	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R610	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82KΩ	
R612	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R613	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R615	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R616	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R617	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R618	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R619	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R620	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R621	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R624	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R625	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R626	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R627	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R629	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R630	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω	
R632	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R633	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R634	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R635	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R636	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R637	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R639	EVNDXAA03B32	CONTROL			300Ω	
R640	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R641	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R642	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω	

Ref No.	Part No.	Description				
R643	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R644	ERJ6GEYJ102	S.M.CARB 0.1W	5%	1KΩ		
R645	ERJ6GEYJ271	S.M.CARB 0.1W	5%	270Ω		
R646	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω		
R647	ERJ6GEYJ151	S.M.CARB 0.1W	5%	150Ω		
R648	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω		
R649	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω		
R651	ERJ6GEYJ225	S.M.CARB0.125W	5%	2M2Ω		
R652	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R653	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R654	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R655	ERJ6GEYJ243	SM.CARB0.125W	5%	24KΩ		
R656	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R657	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R658	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R659	ERJ6GEYJ102	S.M.CARB 0.1W	5%	1KΩ		
R660	ERJ6GEYJ102	S.M.CARB 0.1W	5%	1KΩ		
R661	ERJ6GEYJ102	S.M.CARB 0.1W	5%	1KΩ		
R663	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω		
R664	ERC14GJ206V	SOLID 14W	5%	20MΩ		
R665	ERC14GJ206V	SOLID 14W	5%	20MΩ		
R666	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R667	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R668	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R711	ERJ6GEYJ564	S.M.CARB 0.1W	5%	560KΩ		
R712	ERJ6GEYJ223	S.M.CARB 0.1W	5%	22KΩ		
R714	ERJ6GEYJ682	S.M.CARB 0.1W	5%	6K8Ω		
R715	ERJ6GEYJ272	S.M.CARB 0.1W	5%	2K7Ω		
R716	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω		
R717	ERJ6GEYJ153	S.M.CARB 0.1W	5%	15KΩ		
R718	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R753	ERD25TJ124	CARBON 0.25W	5%	120KΩ		
R805	TAP4GA0003	METAL 4W	5%	0Ω		
R807	ERD25TJ104	CARBON 0.25W	5%	100KΩ		
R809	ERF10ZK4R7	WOUND 10W	5%	4R7Ω	△	
R810	ERD25TJ223	CARBON 0.25W	5%	22KΩ		
R811	ERD25TJ391	CARBON 0.25W	5%	390Ω		
R815	ERD25TJ150	CARBON 0.25W	5%	15Ω		
R816	ERDS1TJ470	CARBON 0.5W	5%	47Ω		
R818	ERD25TJ331	CARBON 0.25W	5%	330Ω		
R820	ERG3FJ223	METAL 3W	5%	22KΩ	△	
R821	ERG3FJ223	METAL 3W	5%	22KΩ	△	
R822	ERD25TJ391	CARBON 0.25W	5%	390Ω		
R823	ERX2SJR22	METAL 2W	5%	R22Ω		
R824	ERX2SJR22	METAL 2W	5%	R22Ω		
R825	ERX2SJR22	METAL 2W	5%	R22Ω		
R827	ERDS1FJ100	CARBON 0.5W	5%	10Ω		
R828	ERD25TJ103	CARBON 0.25W	5%	10KΩ		
R829	ERD25TJ471	CARBON 0.25W	5%	470Ω		
R831	ERD75TAJ825	CARBON 0.75W	5%	8M2Ω	△	
R835	ERD25TJ220	CARBON 0.25W	5%	22Ω		
R836	ERD25TJ100	CARBON 0.25W	5%	10Ω		
R837	ERD25TJ153	CARBON 0.25W	5%	15KΩ		
R838	ERD25TJ102	CARBON 0.25W	5%	1KΩ		
R853	ERO25CKF1002	METAL 0.25W	1%	10KΩ	△	
R854	ERDS1TJ153	CARBON 0.5W	5%	15KΩ		
R855	ERD25TJ472	CARBON 0.25W	5%	4K7Ω		
R856	ERD25TJ473	CARBON 0.25W	5%	47KΩ		
R858	ERO25CKF1002	METAL 0.25W	1%	10KΩ	△	
R862	ERD25TJ472	CARBON 0.25W	5%	4K7Ω		
R863	ERG3FJ680	METAL 3W	5%	68Ω	△	
R864	ERDS1TJ103	CARBON 0.5W	5%	10KΩ		
R865	ERG3FJ680	METAL 3W	5%	68Ω	△	
R867	ERD25TJ102	CARBON 0.25W	5%	1KΩ		
R870	ERD25TJ101	CARBON 0.25W	5%	100Ω		
R873	ERDS1TJ3R3	CARBON 0.5W	5%	3R3Ω		
R876	ERD25TJ562	CARBON 0.25W	5%	5K6Ω		
R877	ERO25CKF1052	METAL 25W	1%	10KΩ	△	
R878	ERO25CKF1002	METAL 0.25W	1%	10KΩ	△	
R883	ERD25TJ103	CARBON 0.25W	5%	10KΩ		
R885	ERD25TJ103	CARBON 0.25W	5%	10KΩ		
R886	ERF10ZK6R8	WIRE 10W	5%	6R8Ω	△	

Ref No.	Part No.	Description				
R888	ERDS1TJ393	CARBON 0.5W	5%	39KΩ		
R889	ERD25TJ392	CARBON 0.25W	5%	3K9Ω		
R890	ERX3SJR56	METAL 3W	5%	R56Ω		
R891	ERD25TJ103	CARBON 0.25W	5%	10KΩ		
R892	ERD25TJ222	CARBON 0.25W	5%	2K2Ω		
R897	ERO25CKF1503	METAL 0.25W	1%	15Ω	△	
R898	ERO25CKF1002	METAL 0.25W	1%	10KΩ	△	
R901	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R902	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R903	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		
R904	ERJ6GEYJ122	S.M.CARB 0.1W	5%	1K2Ω		
R905	ERJ6GEYJ681	S.M.CARB 0.1W	5%	680Ω		
R906	ERJ6GEYJ223	S.M.CARB 0.1W	5%	22KΩ		
R907	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R908	ERJ6GEYJ471	S.M.CARB 0.1W	5%	470Ω		
R909	ERJ6GEYJ102	S.M.CARB 0.1W	5%	1KΩ		
R910	ERJ6GEYJ151	S.M.CARB 0.1W	5%	150Ω		
R911	ERJ6GEYJ152	S.M.CARB 0.1W	5%	1K5Ω		
R912	ERJ6GEYJ471	S.M.CARB 0.1W	5%	470Ω		
R913	ERJ6GEYJ183	S.M.CARB 0.1W	5%	18KΩ		
R914	ERJ6GEYJ222	S.M.CARB 0.1W	5%	2K2Ω		
R915	ERJ6GEYJ182	S.M.CARB 0.1W	5%	1K8Ω		
R916	ERJ6GEYJ221	S.M.CARB 0.1W	5%	220Ω		
R919	ERD25TJ390	CARBON 0.25W	5%	39Ω		
R920	ERD25TJ390	CARBON 0.25W	5%	39Ω		
R921	ERD25TJ122	CARBON 0.25W	5%	1K2Ω		
R922	ERD25TJ683	CARBON 0.25W	5%	68KΩ		
R923	ERD25TJ683	CARBON 0.25W	5%	68KΩ		
R924	ERDS1FJ390	CARBON 0.5W	5%	39Ω	△	
R925	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω		
R926	ERJ6GEY0R00	S.M.CARB 0.1W	5%	0Ω		
R927	ERD25TJ122	CARBON 0.25W	5%	1K2Ω		
R928	ERD25TJ5R6	CARBON 0.25W	5%	5R6Ω		
R929	ERDS1FJ471	CARBON 0.5W	5%	470Ω	△	
R930	ERD25TJ5R6	CARBON 0.25W	5%	5R6Ω		
R931	ERDS1FJ390	CARBON 0.5W	5%	39Ω	△	
R932	ERDS1FJ101	CARBON 0.5W	5%	100Ω	△	
R933	ERJ6GEYJ272	S.M.CARB 0.1W	5%	2K7Ω		
R934	ERJ6GEYJ102	S.M.CARB 0.1W	5%	1KΩ		
R935	ERQ14AJ3R9	FUSIBLE 0.25W	5%	3R9Ω	△	
R936	ERQ1CJP102	METAL 1W	5%	1KΩ	△	
R937	ERQ14AJ100	METAL 0.25W	5%	10Ω	△	
R1054	ERD25TJ101	CARBON 0.25W	5%	100Ω		
R1057	ERD25TJ101	CARBON 0.25W	5%	100Ω		
R1058	ERD25TJ471	CARBON 0.25W	5%	470Ω		
R1059	ERD25TJ103	CARBON 0.25W	5%	10KΩ		
R1061	ERD25TJ103	CARBON 0.25W	5%	10KΩ		
R1062	ERD25TJ222	CARBON 0.25W	5%	2K2Ω		
R1063	ERD25TJ222	CARBON 0.25W	5%	2K2Ω		
R1064	ERD25TJ332	CARBON 0.25W	5%	3K3Ω		
R1065	ERD25TJ512	CARBON 0.25W	5%	5K1Ω		
R1066	ERD25TJ912	CARBON 0.25W	5%	9K1Ω		
R1101	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1102	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1103	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1104	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1105	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1106	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1107	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1108	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1111	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1112	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1113	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1116	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1117	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1118	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1119	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1120	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1121	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1122	ERJ6GEYJ101	S.M.CARB 0.1W	5%	100Ω		
R1123	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7Ω		
R1124	ERJ6GEYJ103	S.M.CARB 0.1W	5%	10KΩ		

Ref No.	Part No.	Description
R1125	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1126	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1127	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1128	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R1129	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R1133	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1134	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1135	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1136	ERJ6GEYJ221	S.M.CARB 0.1W 5% 220Ω
R1137	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1138	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1142	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1143	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R1144	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1145	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1149	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1150	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1151	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1152	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1153	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1154	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1156	ERJ6GEYJ182	S.M.CARB 0.1W 5% 1K8Ω
R1163	ERJ6GEYJ152	S.M.CARB 0.1W 5% 1K5Ω
R1164	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1169	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1170	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R1171	ERJ6GEYJ682	S.M.CARB 0.1W 5% 6K8Ω
R1172	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1174	ERDS1TJ561	CARBON 0.5W 5% 560Ω
R1182	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1183	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1184	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1185	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1186	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1188	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1190	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1191	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1192	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R1193	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1194	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1301	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1302	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R1305	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1306	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1315	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1317	ERJ6GEYJ181	S.M.CARB 0.1W 5% 180Ω
R1318	ERJ6GEYJ181	S.M.CARB 0.1W 5% 180Ω
R1319	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1340	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1504	ERJ6GEYJ121	S.M.CARB 0.1W 5% 120Ω
R1507	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω
R1508	ERJ6GEYJ121	S.M.CARB 0.1W 5% 120Ω
R1510	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1511	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω
R1513	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω
R1515	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1516	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1517	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1518	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1519	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1520	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1523	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1551	ERJ6GEYJ221	S.M.CARB 0.1W 5% 220Ω
R1553	ERJ6GEYJ680	S.M.CARB 0.1W 5% 68Ω
R1554	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1555	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1556	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1560	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1561	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1562	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1563	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1564	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω

Ref No.	Part No.	Description
R1565	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R1566	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R1567	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1568	ERJ6GEYJ221	S.M.CARB 0.1W 5% 220Ω
R1570	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1572	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1575	ERJ6GEYJ391	S.M.CARB 0.1W 5% 390Ω
R1576	ERJ6GEYJ821	S.M.CARB 0.1W 5% 820Ω
R1577	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R1578	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R1583	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1584	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1605	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1606	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1608	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1611	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1620	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1621	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1622	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1627	ERJ6GEYJ622	S.M.CARB 0.125W 5% 6K2Ω
R1628	ERJ6GEYJ161	S.M.CARB 0.125W 5% 160Ω
R1629	ERJ6GEYJ201	S.M.CARB 0.1W 5% 200Ω
R1630	ERJ6GEYJ181	S.M.CARB 0.1W 5% 180Ω
R1631	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1632	ERJ6GEYJ133	S.M.CARB 0.125W 5% 13KΩ
R1633	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1634	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1636	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1637	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1638	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1639	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1641	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1643	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1644	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1646	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1647	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1648	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1649	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1650	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1652	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1653	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1654	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1656	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1657	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1658	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1659	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1662	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1666	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1667	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1668	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1669	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω
R1670	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω
R1671	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω
R1672	ERJ6GEYJ181	S.M.CARB 0.1W 5% 180Ω
R1673	ERJ6GEYJ181	S.M.CARB 0.1W 5% 180Ω
R1674	ERJ6GEYJ181	S.M.CARB 0.1W 5% 180Ω
R1679	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1680	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1681	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1682	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1683	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1688	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1690	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R2001	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R2004	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R2005	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R2006	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R2007	ERJ6GEYJ183	S.M.CARB 0.1W 5% 18KΩ
R2008	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R2009	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R2010	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R2011	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω

Ref No.	Part No.	Description				
R2012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R2013	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R2014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2015	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R2016	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2017	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R2018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2019	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2020	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω	
R2021	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R2022	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2023	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R2025	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R2026	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω	
R2027	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R2038	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R2039	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2044	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2045	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2351	ERQ14AJW100	METAL	0.25W	5%	10Ω	Δ
R2352	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2353	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2354	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R2355	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2356	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2357	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2358	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2359	ERD25TJ271	CARBON	0.25W	5%	270Ω	
R2360	ERD25TJ183	CARBON	0.25W	5%	18KΩ	
R2361	ERD25TJ100	CARBON	0.25W	5%	10Ω	
R2371	ERQ14AJW100	METAL	0.25W	5%	10Ω	Δ
R2372	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2373	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2374	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R2375	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2376	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2377	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2378	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2379	ERD25TJ271	CARBON	0.25W	5%	270Ω	
R2380	ERD25TJ183	CARBON	0.25W	5%	18KΩ	
R2381	ERD25TJ100	CARBON	0.25W	5%	10Ω	
R3006	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3108	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3109	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3110	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3111	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3114	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3115	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3117	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3118	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3119	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3122	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3123	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R3124	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3125	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3126	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3127	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3128	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3129	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3130	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3131	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3132	ERD2FCVJ100T	CARBON	2W	2%	10Ω	
R3133	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3134	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3135	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3136	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	

Ref No.	Part No.	Description				
R3137	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3138	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3139	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3140	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3141	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3142	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3143	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3144	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3146	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3147	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R3148	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3149	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3150	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3153	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3154	ERD2FCVJ100T	CARBON	2W	2%	10Ω	
R3158	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3159	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3160	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R3161	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120Ω	
R3162	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3163	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R3165	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R3167	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R3178	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R3180	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R3182	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R3184	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R3185	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3186	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3187	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3188	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3192	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R3193	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R3194	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3196	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3197	ERD2FCVJ100T	CARBON	2W	2%	10Ω	
R3198	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3199	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3200	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3201	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R3202	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R3205	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3206	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3207	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3208	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3210	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R3211	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R3212	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R3213	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3214	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R3215	ERD2FCVJ100T	CARBON	2W	2%	10Ω	
R3216	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω	
R3217	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3218	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3219	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R3220	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3221	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R3222	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω	
R3223	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3224	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3225	ERD2FCVJ100T	CARBON	2W	2%	10Ω	
R3226	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R3227	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω	
R3228	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω	
R3229	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3230	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3231	ERD2FCVJ100T	CARBON	2W	2%	10Ω	




Ref No.	Part No.	Description			
R3232	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω
R3233	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω
R3236	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3238	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3239	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3240	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3501	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω
R3502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3503	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3505	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω
R3506	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω
R3507	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R3508	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R3509	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3513	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3514	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3515	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3516	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R3517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3518	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3520	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R3521	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3522	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3523	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3526	ERD25TC0T	CARBON	0.25W	5%	0Ω
R3531	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R3532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω
R3534	ERD25TJ181	CARBON	0.25W	5%	180Ω
R3536	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3539	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3540	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R3541	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R3542	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R3802	ERG3FJ100	METAL	3W	5%	10Ω
R3803	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R3804	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω

Ref No.	Part No.	Description	
<b>SWITCHES</b>			
S801	ESB91232A	SWITCH	△
S1051	EVQ23405R	SWITCH	
S1052	EVQ23405R	SWITCH	
S1053	EVQ23405R	SWITCH	
S1054	EVQ23405R	SWITCH	
S1055	EVQ23405R	SWITCH	
<b>TRANSFORMERS</b>			
T502	ETH19Y182AY	TRANSFORMER	
T551	ZTFH65014A	F.B.T.	△
T801	ETP35KAN615U	TRANSFORMER	△
T802	ETS49AH1F7NC	TRANSFORMER	
<b>FILTERS</b>			
X101	EFCT6504BF	FILTER	
X102	EFCT5M7MW3	FILTER	
X103	EFCT6R0MW5	FILTER	
X104	K3953-M100	SAW FILTER	
X105	K9456M	SAW FILTER	
X106	EFCV3195T6	CERAMIC FILTER	
X107	EFCT7004BF	CERAMIC FILTER	
X109	EFCV4045T4	CERAMIC FILTER	
X601	TSSA024	CRYSTAL	
X602	TSSA025	CRYSTAL	
X1101	TAF10020	CRYSTAL	
X1551	TSSA009	CRYSTAL	
X2001	4730007158	CRYSTAL	
X3501	TSSA009	CRYSTAL	

# SCHEMATIC DIAGRAM FOR MODELS TX-W28R3F/L (Euro-3W Chassis)

## IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

## Notes

### 1. RESISTOR

All resistors are carbon 1/4W resistor, unless marked as follows:  
Unit of resistance is OHM ( $\Omega$ ) (K=1,000, M=1,000,000).

### 2. CAPACITORS

All capacitors are ceramic 50V, unless marked as follows:  
Unit of capacitance is  $\mu$ F, unless otherwise stated.



### 3. COIL

Unit of inductance is  $\mu$ H, unless otherwise stated.

4. Components marked 'L' on the schematic diagram shows leadless parts.

### 5. TEST POINT

 Test Point Position




6. EARTH SYMBOL  Chassis Earth Cold  Line Earth Hot

### 7. VOLTAGE MEASUREMENT

Voltage is measured by a DC voltmeter.

Measurement conditions are as follows:

Power source	AC 220V-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

8.  Indicates the video signal path  
 Indicates the Audio signal path  
 Indicates the Vertical/Horizontal path

9. This schematic diagram is the latest at the time of printing and is subject to change without notice.

## Remarks

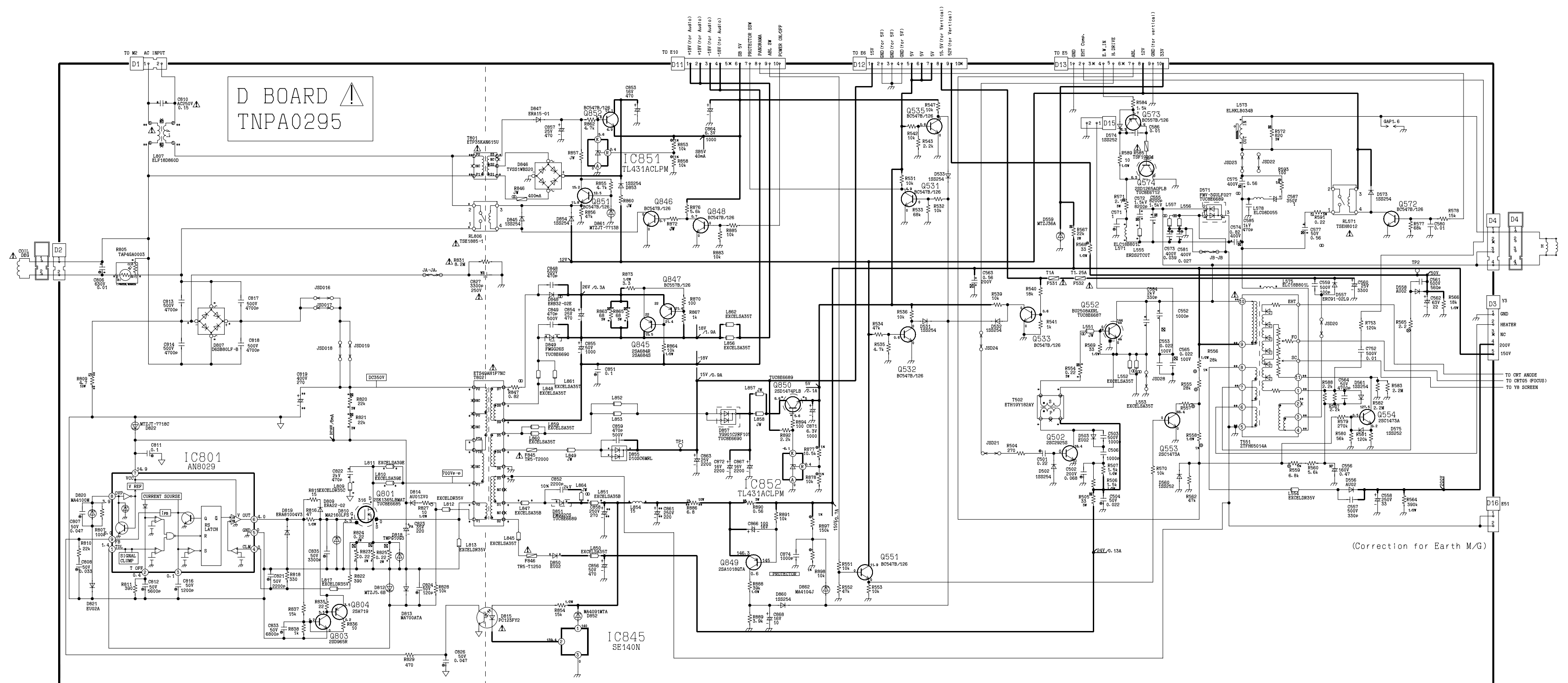
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD. Take the following precautions:

## Precautions

- Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- Do not short-circuit the hot and cold circuits as electrical components may be damaged.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.




D BOARD  
TNPA0295

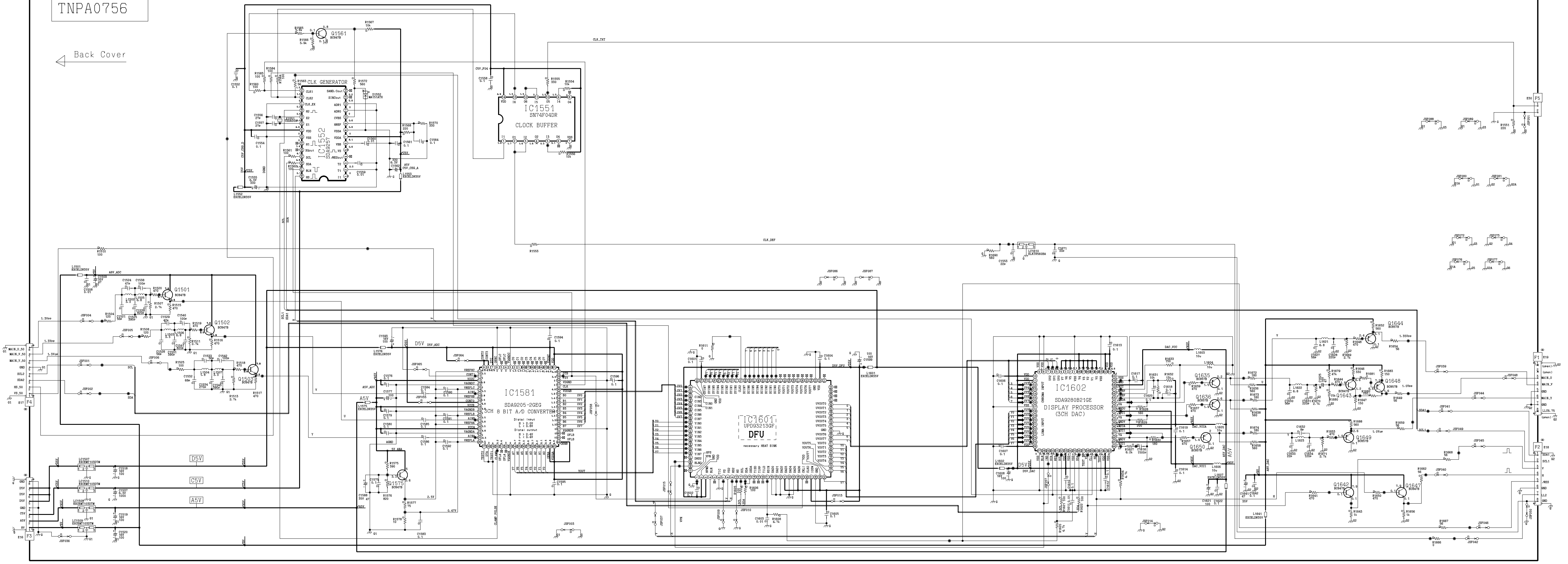


(Correction for Earth M/G)



F BOARD   
TNPA0756

← Back Cover

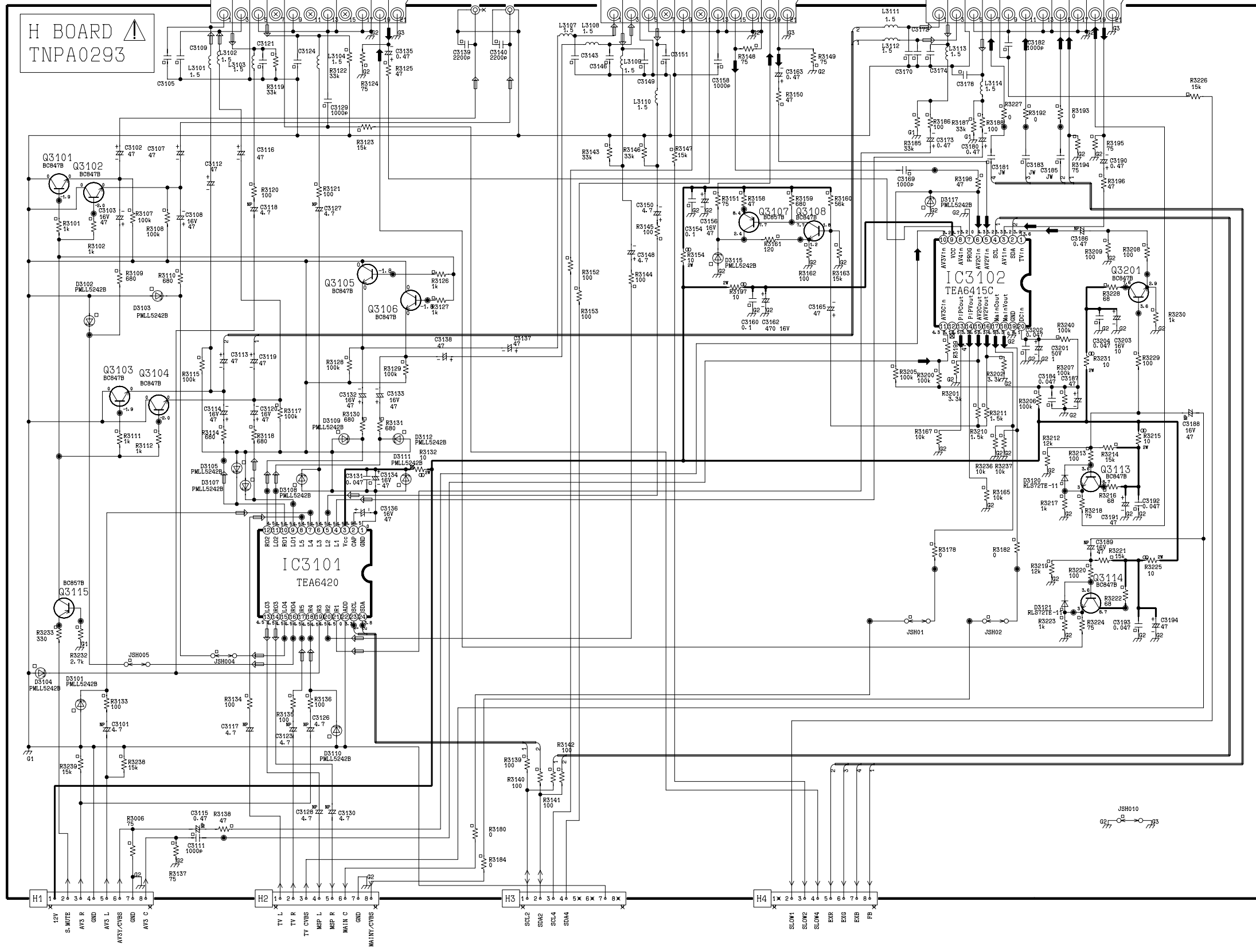


H BOARD  
TNPA0293

AV4  
JK3104

AV2  
JK3102

AV1  
JK3101



H1 1 2 3 4 5 6 7 8

H2 1 2 3 4 5 6 7 8

H3 1 2 3 4 5 6 7 8

H4 1 2 3 4 5 6 7 8

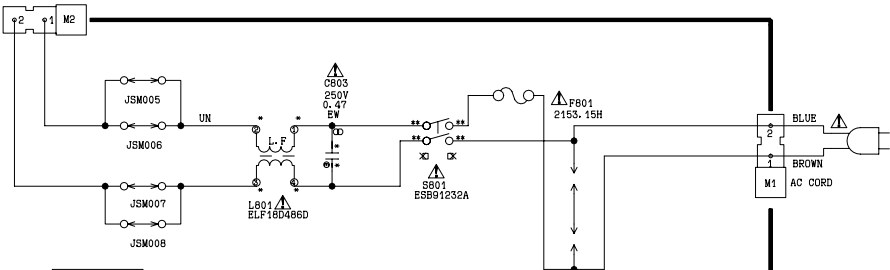
12V  
S. MUTE  
AV3 R  
GND  
AV3 L  
AV3 CVBS  
GND  
AV3 C

TV L  
TV R  
TV CVBS  
MSP L  
MSP R  
MAIN C  
GND  
MAIN CVBS

SCL2  
SDA2  
SCL4  
SDA4

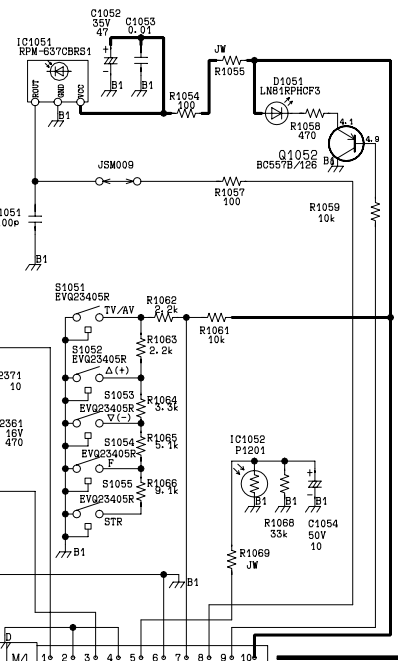
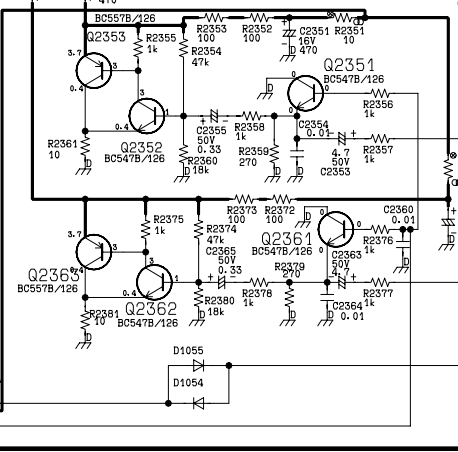
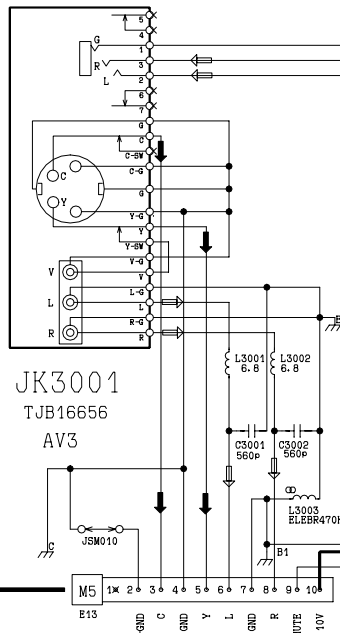
SLOW1  
SLOW2  
SLOW4  
EMR  
ENR  
FB

M BOARD  
TNPA0798



HOT

COLD

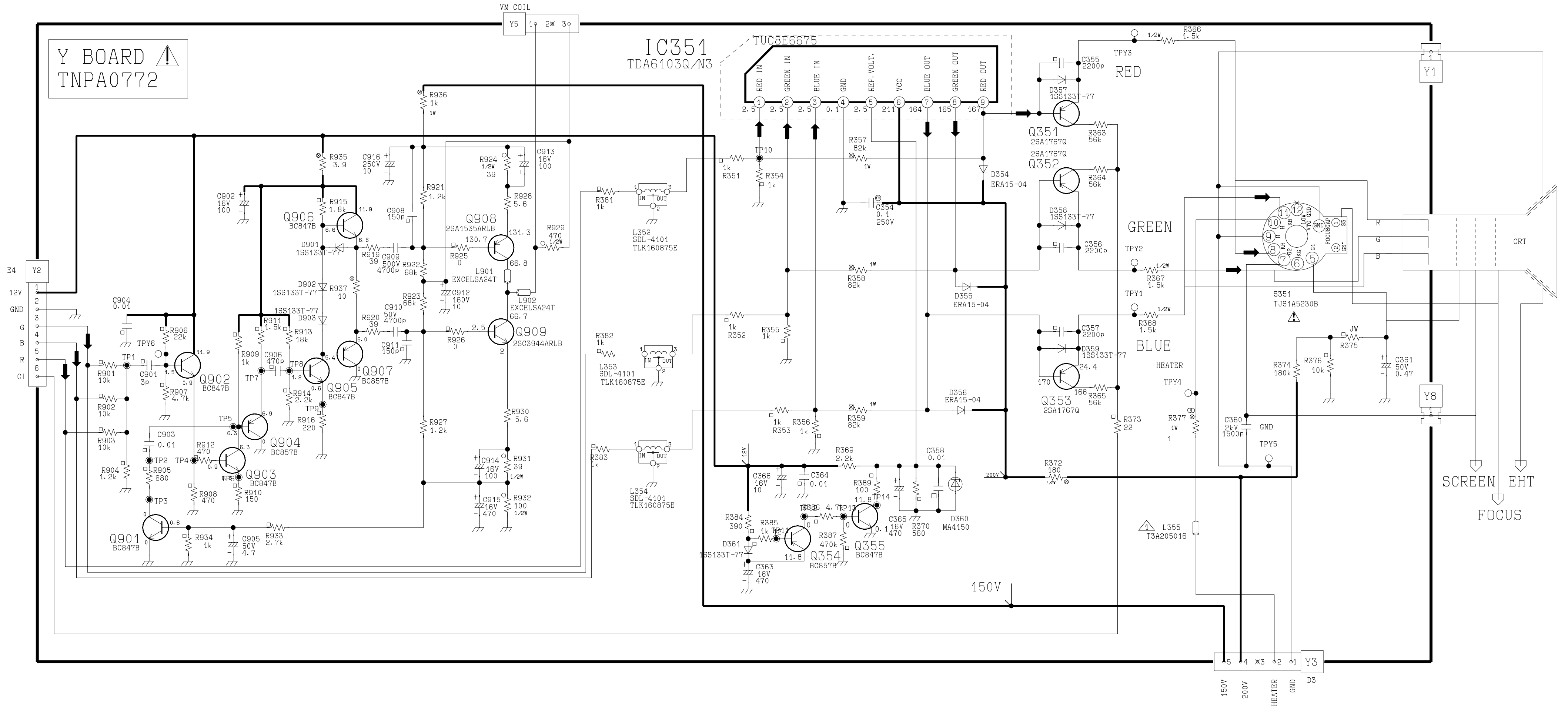


M5 1K 2 3 4 5 6 7 8 9 10  
E13 C-GND C GND Y L GND R S-MUTE 10V

M4 1 2 3 4 5 6 7 8 9 10  
E9 KHL GND KH GND CATBEYE GND KEY SCAN RSIG SS LED SS 5V

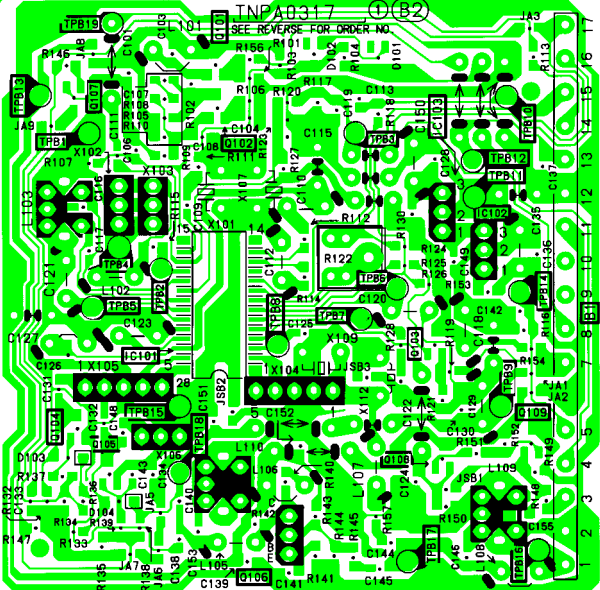


Y BOARD  
TNPA0772

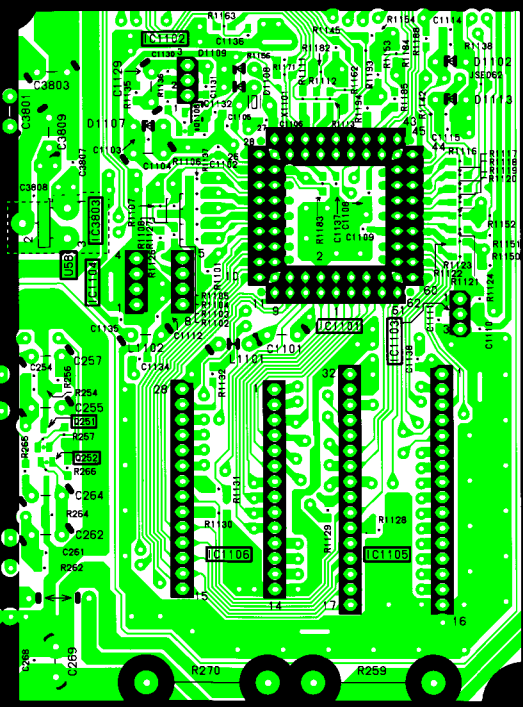
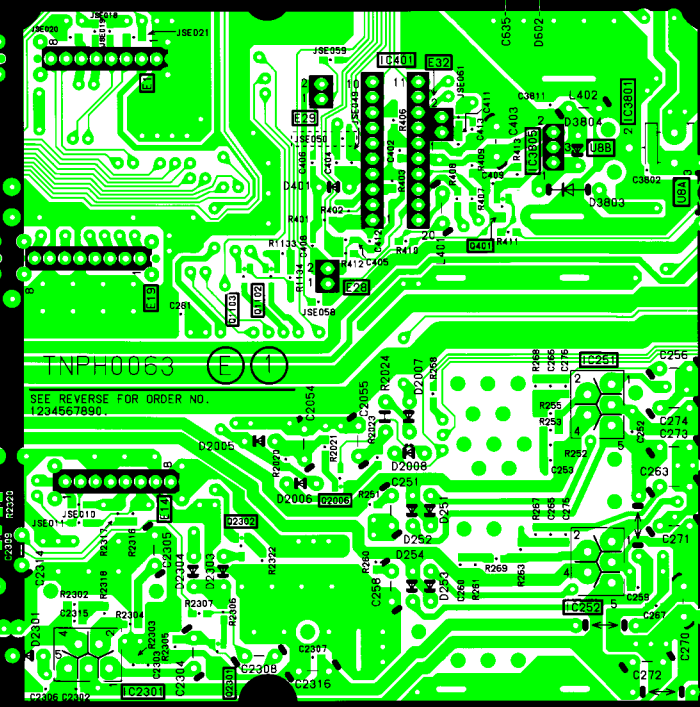
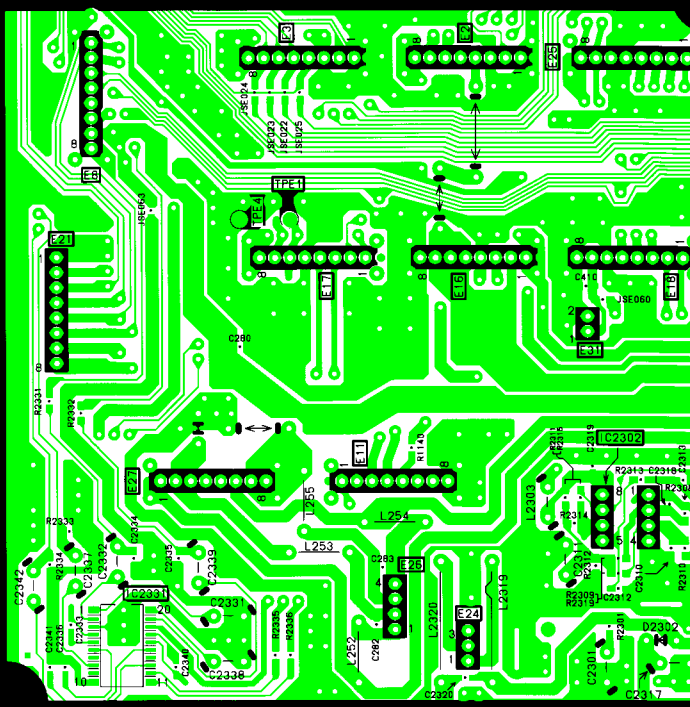
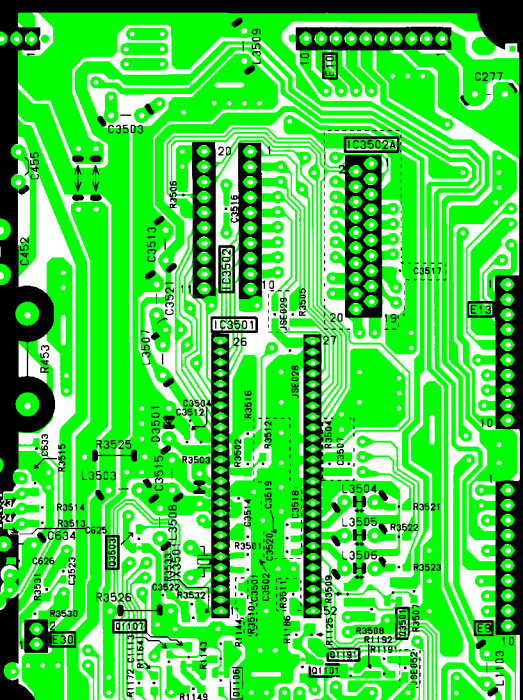
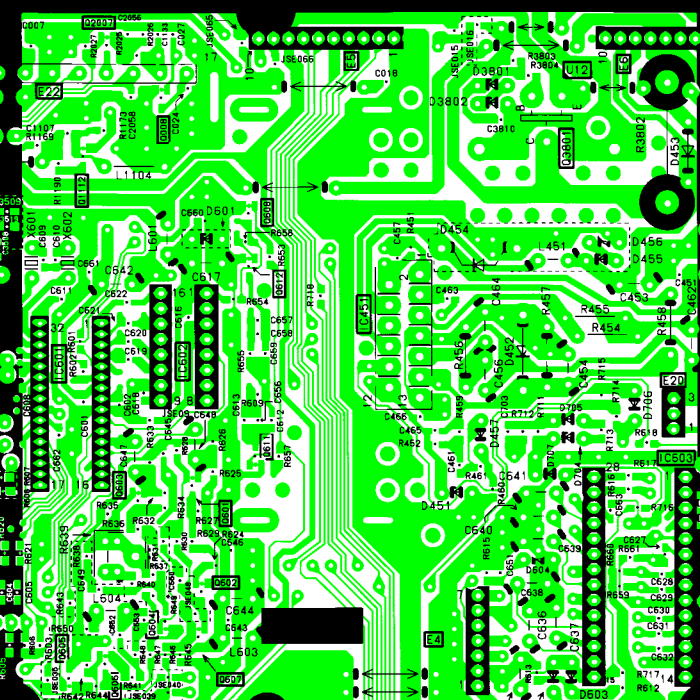
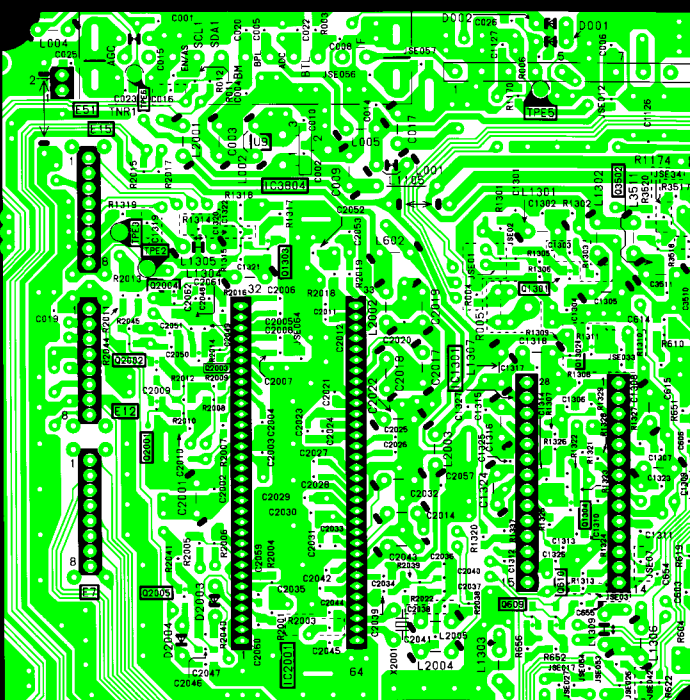


TNP A0317 (B2)

SEE REVERSE FOR ORDER NO.

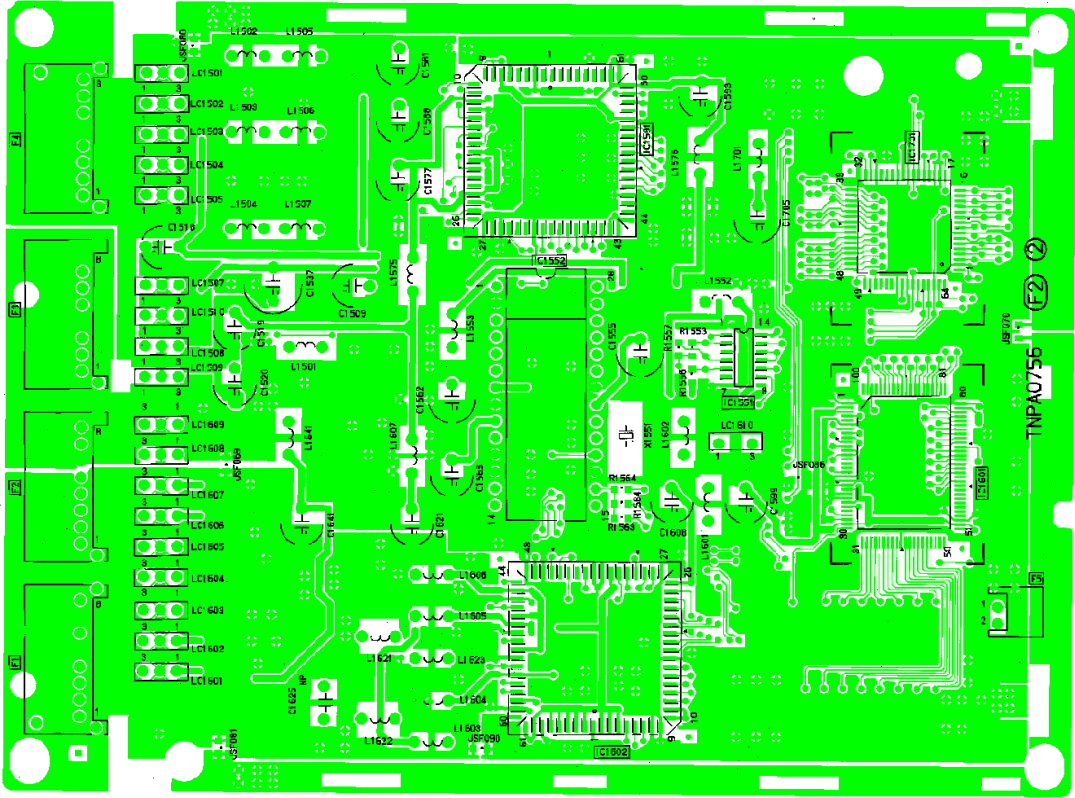












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Z3

Z4

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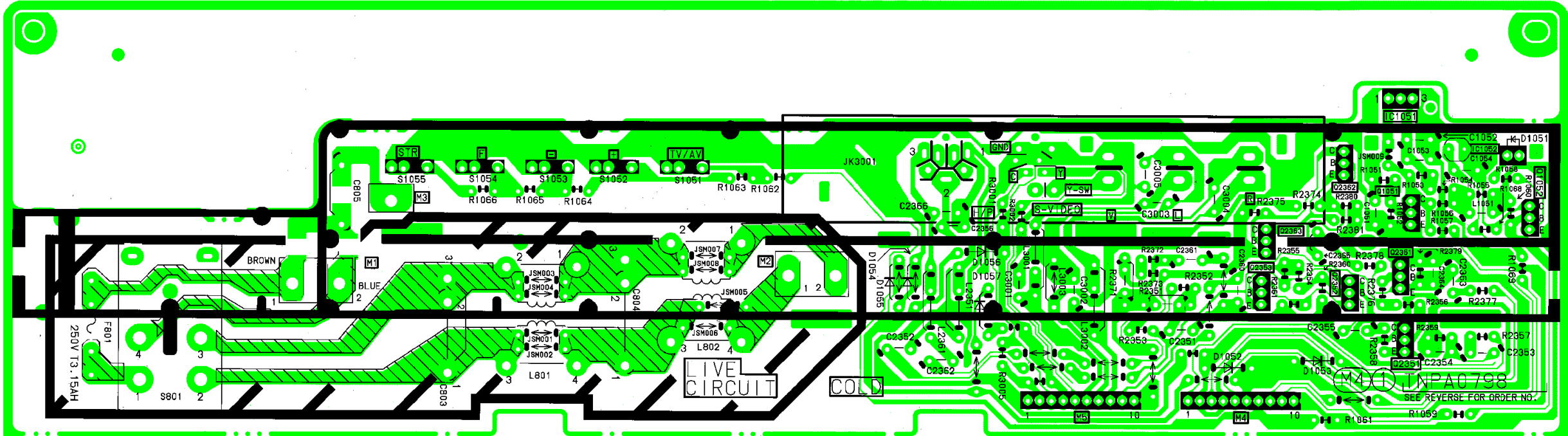
F339

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STR F TV/AV

S1055 S1054 S1053 S1052 S1051 R1066 R1065 R1064 R1063 R1062

JK3001

Y-SW S-VIDEO

IC1051

C1052 IC1052 C1054 K-D1051

BROWN

BLUE

LIVE CIRCUIT

COLD

M4 JNPA0798

SEE REVERSE FOR ORDER NO.

250V T3.15AH

F801

S801

C803

JSM001 JSM002

L801

JSM006

L802

JSM007 JSM008

JSM005

D1054 D1055

D1056 D1057

L3001 L3002

L3003

C3002 C3003

R2372 R2373 R2374

R2352 R2353

R2354 R2355

R2356 R2357

R2358 R2359

R2360 R2361

R2362 R2363

R2364 R2365

R2366 R2367

R2368 R2369

C2352 C2353

L2361

L2362

R2350 R2351

D1052 D1053

R2354 R2355

R2356 R2357

R2358 R2359

R2360 R2361

R2362 R2363

R2364 R2365

R2366 R2367

R2368 R2369

C805

M1

M2

M3

C804

M4

M5

C2366

C2367

C2368

C2369

C2370

C2371

C2372

C2373

C2374

C2375

C2376

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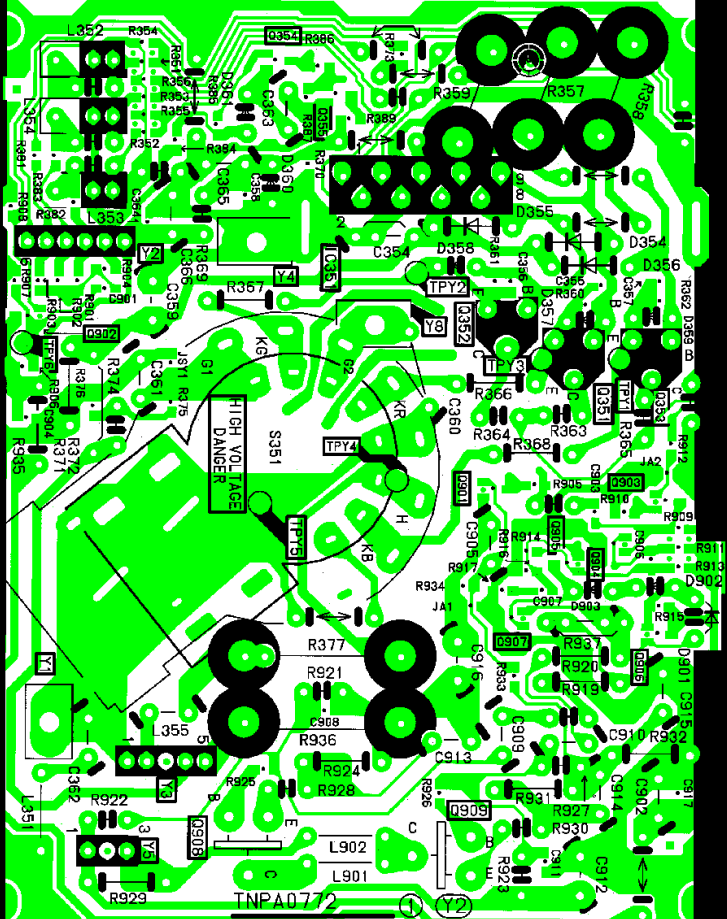
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C2366

C2367

C2368

C2369



TPA0772

SEE REVERSE FOR ORDER NO.