

TX-W32D2 Service Manual

Safety

Specifications

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Service
Information

Adjustments

Self Check

Service Hints

Mechanical
View

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Location of
Controls

Waveforms

Block Diagrams

Schematic Diagrams

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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

Audio/Video

Control

←
BACK

B - PCB

D - PCB

E - PCB

F - PCB

H - PCBs

Y - PCB

←
BACK

B - Schematic

D - Schematic

E - Schematic

F - Schematic

H - Schematic

M - Schematic

Y - Schematic

←
BACK

Service Manual



Colour Television

TX-W32D2

EURO-3HW Chassis

Specifications

Power Source :	220 – 240 V AC, 50Hz	AV3 IN	S-Video IN Y : 1 Vp-p 75Ω (4-pin) C : 0.3 Vp-p 75Ω Audio (RCA x 2) 500 mV rms 10kΩ Video (RCA x 1) 1 Vp-p 75Ω
Power Consumption :	151W	AV4 IN	Video (21 pin) 1 Vp-p 75Ω Audio (21 pin) 500 mV rms 10kΩ
Aerial Impedance :	75Ω unbalanced, Coaxial Type	AV4 OUT	Video (21 pin) 1 Vp-p 75Ω Audio (21 pin) 500 mV rms 1kΩ
Receiving System :	PAL I PAL 60, M.NTSC, NTSC (AV Only)	High Voltage :	30,5kV ± 1kV
Receiving Channels :	UHF E21 – E69	Picture Tube :	W76LFC185X05 76 cm 106° deflection
Intermediate Frequency :		Audio Output :	
Video	39,5MHz	Internal Speaker	2 x 20W (Left/Right)(Music Power) 8 Ω Impedance
Sound	33,5MHz, 32,95MHz	Headphones	8 Ω Impedance
Colour	35,07MHz	Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries
Video / Audio Terminals :		Dimensions :	Height : 553mm Width : 862mm Depth : 555mm
AUDIO MONITOR OUT	Audio (RCA x 2) 500mV rms 1kΩ	Net Weight :	51kg
AV1 IN	Video (21 pin) 1 Vp-p 75Ω Audio (21 pin) 500 mV rms 10kΩ RGB (21 pin)	Specifications are subject to change without notice. Weight and dimensions shown are approximate.	
AV1 OUT	Video (21 pin) 1 Vp-p 75Ω Audio (21 pin) 500 mV rms 1kΩ	NOTE : This service manual should be used in conjunction with the EURO 3 technical guide.	
AV2 IN	Video (21 pin) 1 Vp-p 75Ω Audio (21 pin) 500 mV rms 10kΩ S-Video IN Y : 1 Vp-p 75Ω (21 pin) C : 0.3 Vp-p 75Ω		
AV2 OUT	Video (21 pin) 1 Vp-p 75Ω Audio (21 pin) 500 mV rms 1kΩ Selectable output (21 pin)		

Panasonic CS (U.K.) Ltd.

WILLOUGHBY ROAD,
BRACKNELL
BERKS,
RG12 8FT.

CONTENTS

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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.

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.

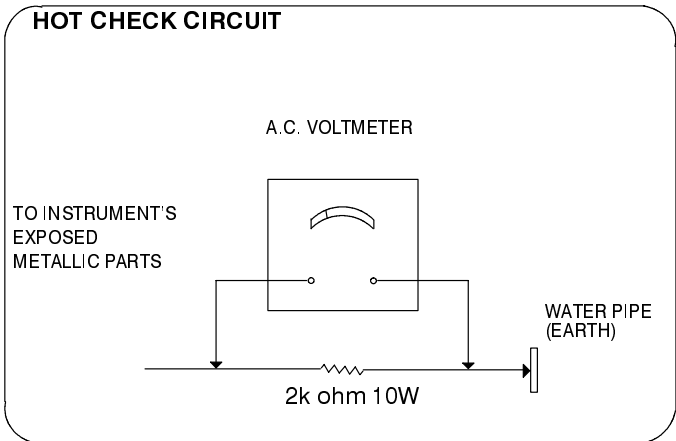


Fig.1

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.

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.

Location Of Controls

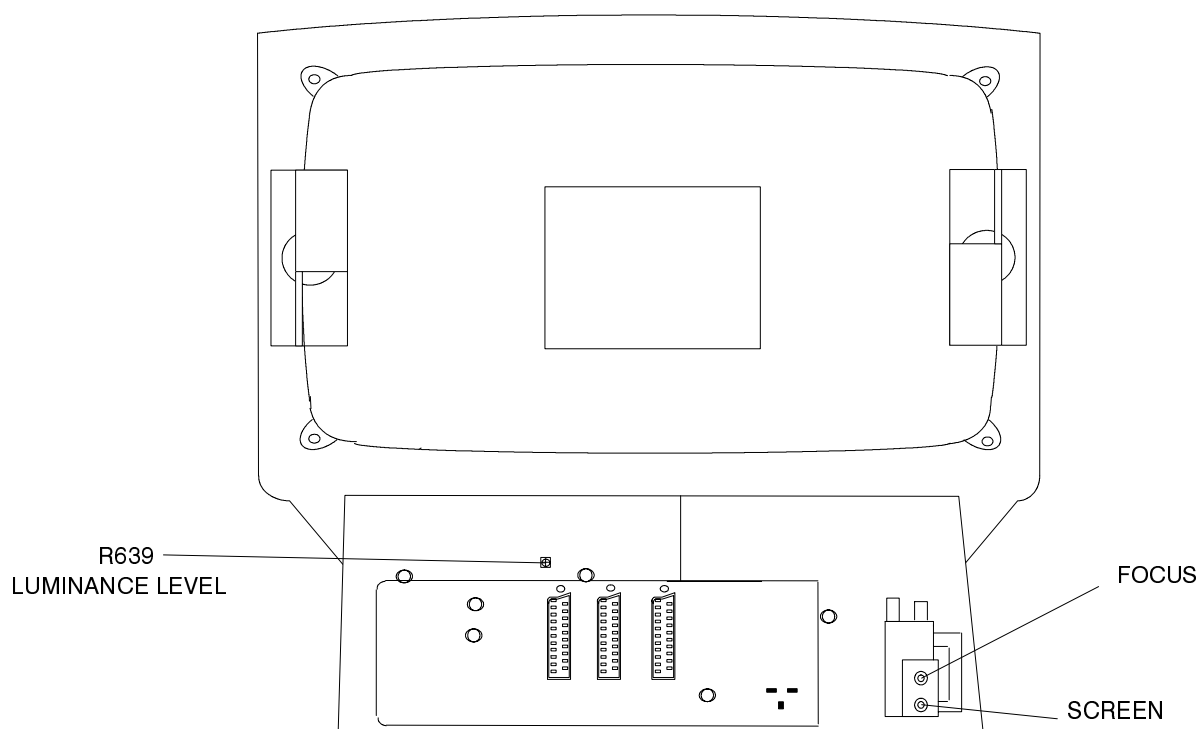


Fig.2.

SERVICE HINTS

How to remove the rear cover

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

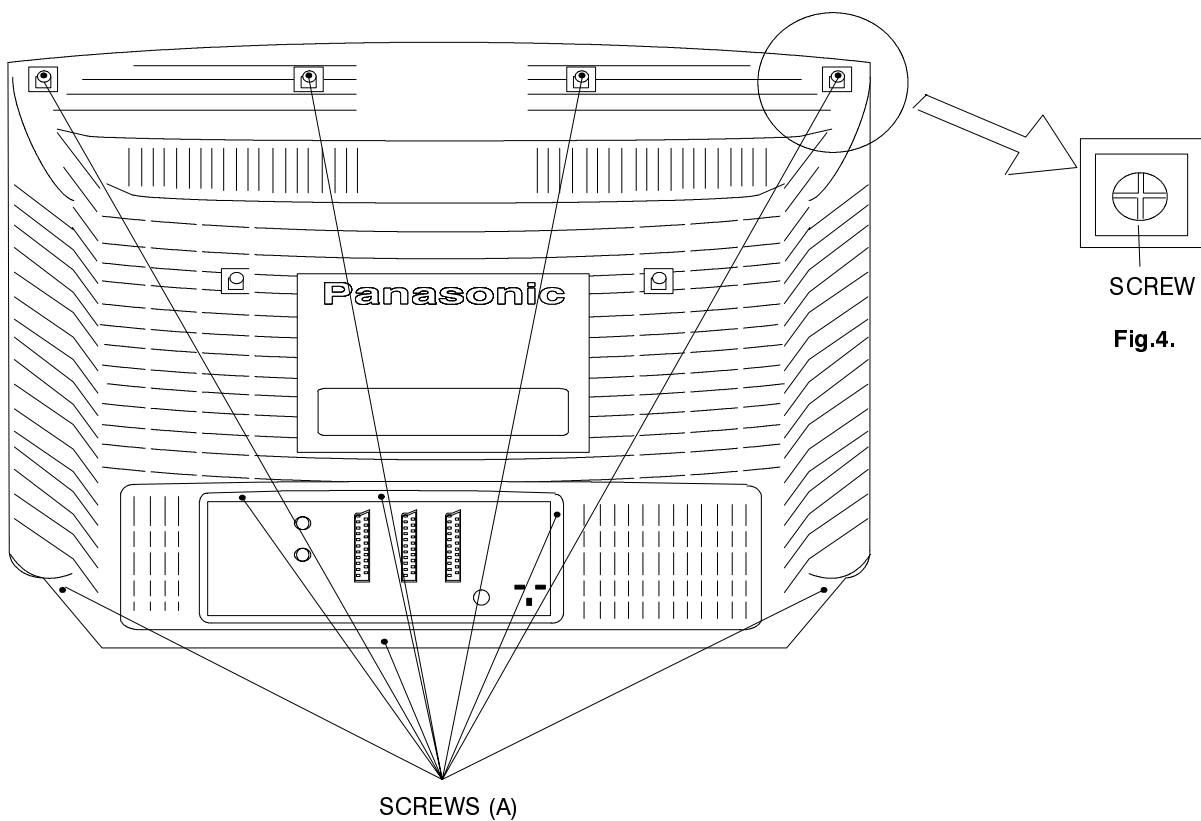


Fig.3.

How to move the chassis into the Service position

1. Hold and lift the rear of the E- PCB chassis and gently pull the chassis toward you.
2. Release the respective wiring clips and turn the chassis through 90°, anti-clockwise, as shown in **Fig.6**.
3. Clip the chassis onto the bead clasper shown in **Fig.7**.
4. Place the locating pin on the chassis frame into the location hole on the cabinet shown in **Fig.8**.
5. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

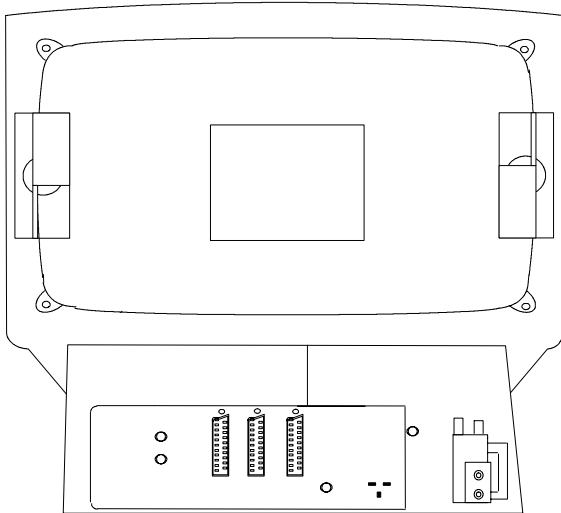


Fig.5.

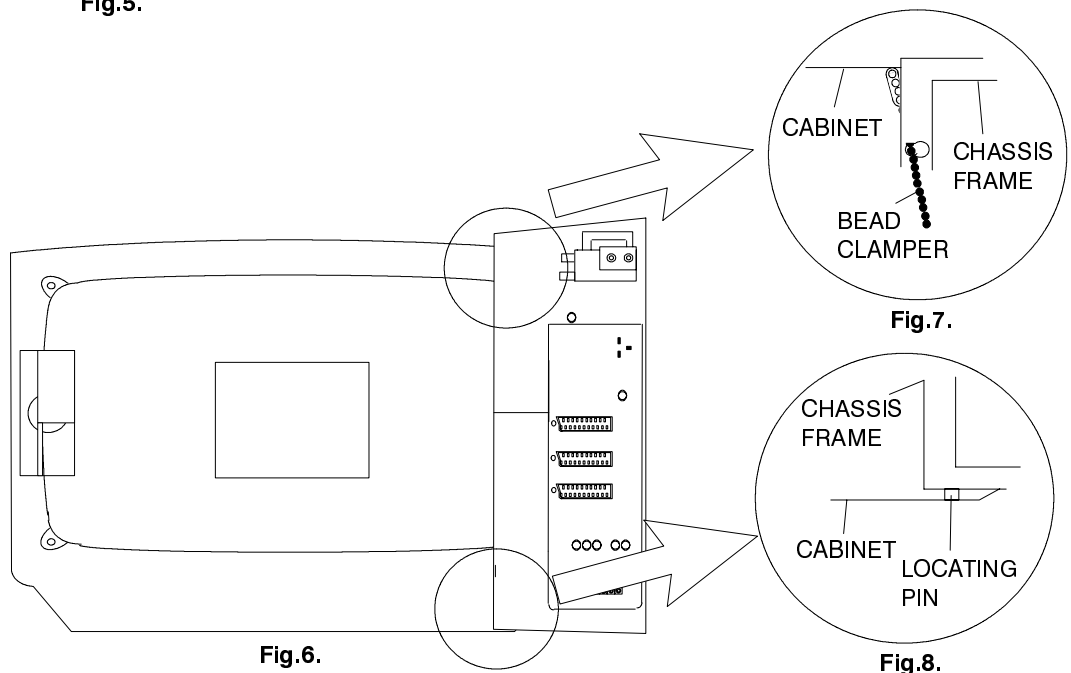


Fig.6.

Fig.7.

Fig.8.

Adjustment Procedure

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 3. minimum position, press and hold the Reveal button on the remote control and at the same time press the \pm 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-3 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!

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.

Memory Pack to TV Process

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	Optimum setting.
Horizontal amplitude	H-AMP 043	Optimum setting.
Horizontal position	H-POS 035	
EW-amplitude	E/W-AMP 1 020	Optimum setting.
EW-amplitude	E/W-AMP 2 015	Optimum setting.
Trapezium-comp	TRAPEZ-1 004	Optimum setting.
Vert. DC.	VERT. D.C. 008	Not to be adjusted.
Text Position	TEXT POSITION 060	Optimum setting.
Cutoff	---	Select a Greyscale 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±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																																																									
Supply Voltage Check 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">E PCB</td> <td colspan="2">D PCB</td> </tr> <tr> <td>U5B 5</td> <td>±</td> <td>0,5V</td> <td>U5A 5,5</td> <td>+0,5/-0,1V</td> </tr> <tr> <td>U8A 8</td> <td>±</td> <td>0,5V</td> <td>U5SB 5</td> <td>±</td> <td>0,25V</td> </tr> <tr> <td>U8B 8</td> <td>±</td> <td>0,5V</td> <td>U15 15</td> <td>±</td> <td>0,7V</td> </tr> <tr> <td>U9 9</td> <td>±</td> <td>0,5V</td> <td>U16 16,8</td> <td>±</td> <td>0,8V</td> </tr> <tr> <td>U12 11,8</td> <td>±</td> <td>0,5V</td> <td>U22 21,5</td> <td>±</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td></td> <td>U38 38,5</td> <td>±</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td></td> <td>U47 47,5</td> <td>±</td> <td>2,5V</td> </tr> <tr> <td></td> <td></td> <td></td> <td>U150 150</td> <td>±</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td></td> <td>U200 204</td> <td>±</td> <td>10V</td> </tr> </table>	E PCB		D PCB		U5B 5	±	0,5V	U5A 5,5	+0,5/-0,1V	U8A 8	±	0,5V	U5SB 5	±	0,25V	U8B 8	±	0,5V	U15 15	±	0,7V	U9 9	±	0,5V	U16 16,8	±	0,8V	U12 11,8	±	0,5V	U22 21,5	±	1V				U38 38,5	±	1V				U47 47,5	±	2,5V				U150 150	±	1V				U200 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:—

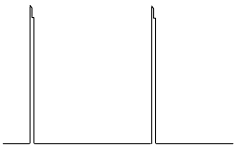
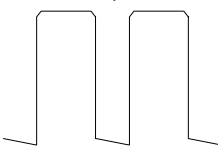

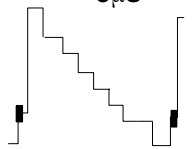
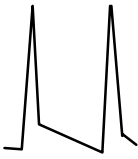
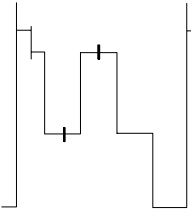
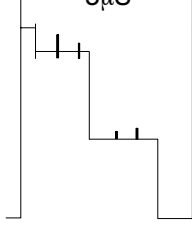
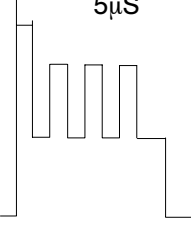
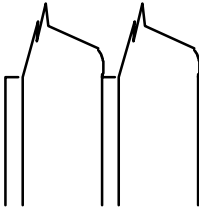
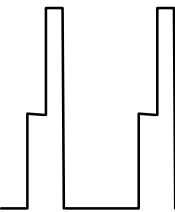
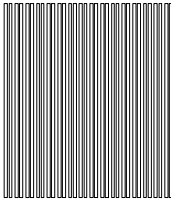
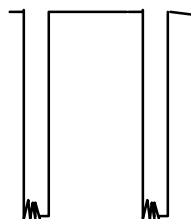
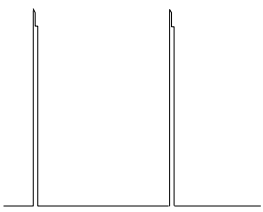
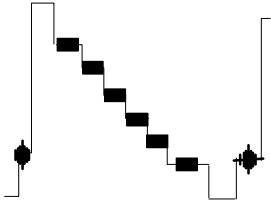
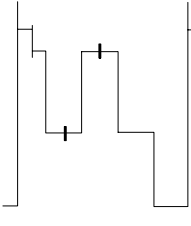
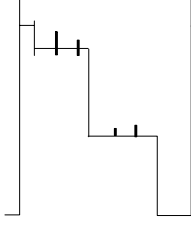
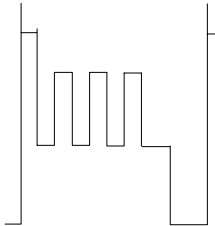
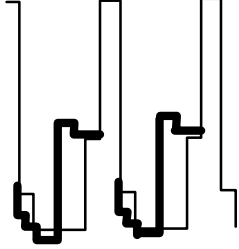
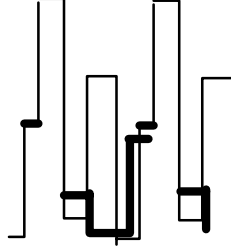
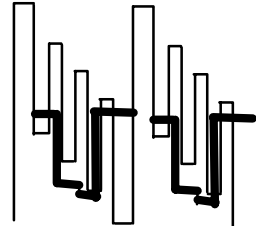
0 — ok	Test Byte	8 — ok	Col Decoder (M)	16 — ok	Col Decoder (P)
1 — ok	Lst Power	9 — ok	Clock generator	17 — ok	Q — PIP
2 — ok	U5 Det	10 — ok	V — Processor	18 — ok	Not Used
3 — ok	Protector	11 — ok	DFU	19 — ok	Not Used
4 — ok	Not Used	12 — ok	Display Processor	20 — ok	EAROM
5 — ok	Not Used	13 — ok	RGB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

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

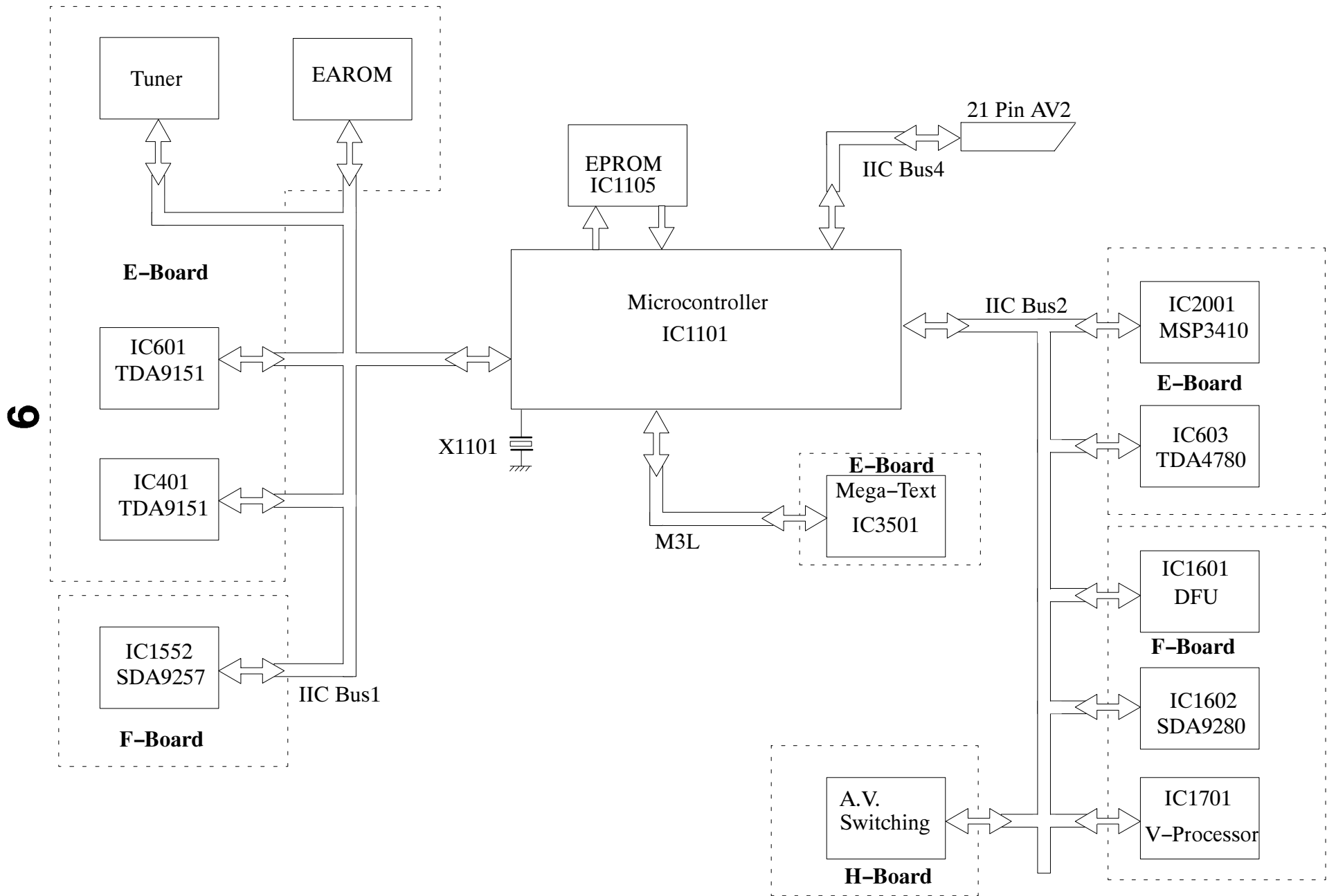
Hex codes

40
70
E5
11
10
E8
04

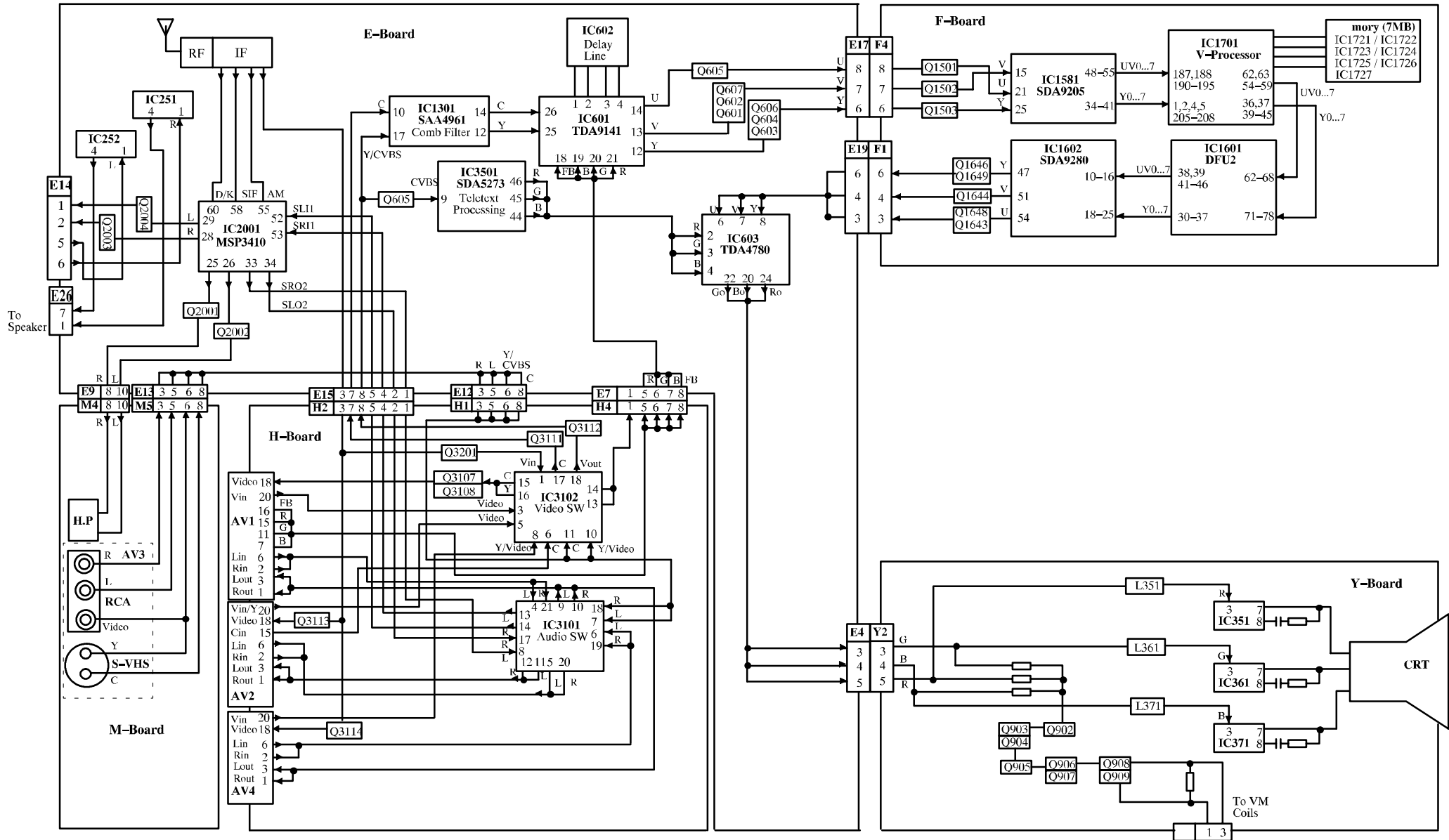
WAVEFORM PATTERN TABLE

<p>IC 3501 PIN3 1μS</p> 	<p>IC 3501 PIN4 1μS</p> 	<p>IC601 PIN25 5μS</p> 	<p>IC601 PIN26 5μS</p> 
<p>Q552 COLLECTOR 20μS</p> 	<p>IC 603 PIN 20 5μS</p> 	<p>IC 603 PIN 24 5μS</p> 	<p>IC 603 PIN 22 5μS</p> 
<p>Q502 COLLECTOR 64μS</p> 	<p>IC 1801 PIN 10 20μS</p> 	<p>IC 1803 PIN 12 20μS</p> 	<p>IC 1803 PIN 1 20μS</p> 
<p>IC 1841 PIN 10 5μS</p> 	<p>IC 1801 PIN 26 5μS</p> 	<p>IC 371 PIN 3 20μS</p> 	<p>IC 351 PIN 3 20μS</p> 
<p>IC 361 PIN 3 20μS</p> 	<p>TPY1 5μS</p> 	<p>TPY2 5μS</p> 	<p>TPY3 5μS</p> 

CONTROL BLOCK DIAGRAM



VIDEO AND AUDIO SIGNAL PROCESSING BLOCK DIAGRAM

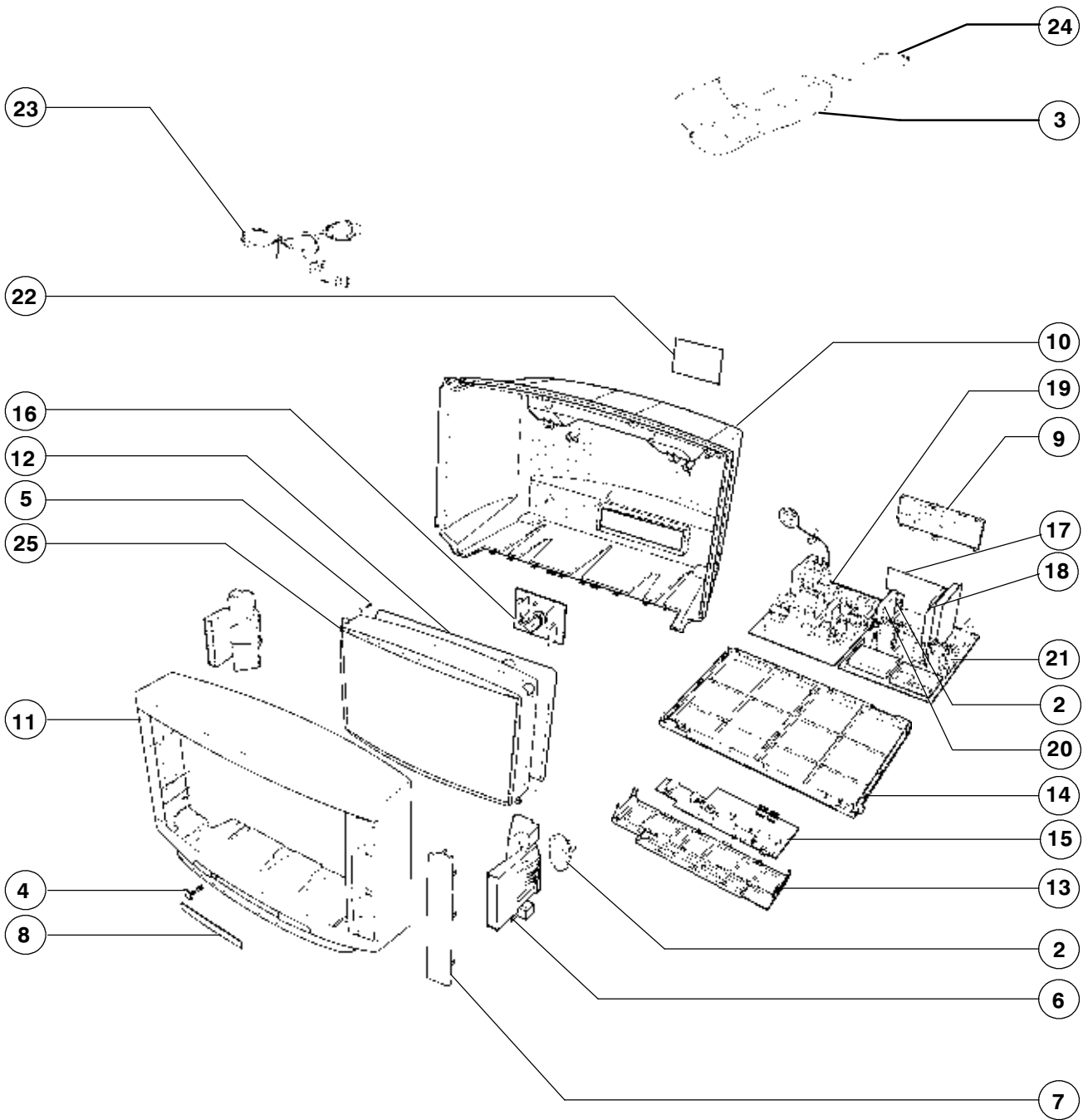


10

PARTS LOCATION


NOTE :


















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







REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by  mark have special characteristics important for safety.
 * When replacing any of these components, use only manufacturers specified parts.
 In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description	
MECHANICAL PARTS			
1	EAGG1218J2	SPEAKER	
2	ENV87D02G3	TUNER	
3	EUR51923	REMOTE CONTROL	
4	TBX8E033	POWER BUTTON	
5	THT1062	CRT FIXING SCREW	
6	TKK8E026	SPEAKER REFLECTOR	
7	TKP8E1148	SPEAKER NET	
8	TKP8E1149	DOOR LID	
9	TKP8E1153	AV COVER	
10	TKU8E00290	BACK COVER	
11	TKY8E110	CABINET	
12	TLK8E05123	DEGAUSS COIL	
13	TMW8E023	CONTROL BRACKET	
14	TMX8E014	CHASSIS FRAME	
15	TNPA0291AA	M P.C.B.	
16	TNPA0292BB	Y P.C.B.	
17	TNPA0293AD	H P.C.B.	
18	TNPA0294AB	F P.C.B.	
19	TNPA0295BA	D P.C.B.	
20	TNPA0298AA	B P.C.B.	
21	TNPH0063BZ	E P.C.B.	
22	TQF8E2773	MODEL LABEL	
23	TSX8E0018	POWER CORD	
24	UR51EC780	BATTERY COVER (REMOTE)	
25	W76LFC185X05	C.R.T.	
MISCELLANEOUS COMPONENTS			
	832AG11D-ESL	IC SOCKET	
	PCS-068A-1	68 PIN IC SOCKET	
	TBM8E1532-2	PRESET PANEL	
	TBM8E1728	PANASONIC BADGE	
	TEK6940	LID CATCH	
	TKP8E1150	LEFT PANEL	
	TKP8E1160	RIGHT PANEL	
	TLK8E05124	GEOMAGNETIC CORRECTION	
	TMW8E017	LED HOLDER	
	TMX8E015	PCB SUPPORT BRACKET	
	TPC8E4729	OUTER CARTON	
	TPD8E621	TOP CUSHION	
	TPD8E622	BOTTOM CUSHION	
	UM-3DJ-2P	BATTERY PACK	
	VS-WR4	TV STAND	
MOD12	31221212478	FIX CLIP	
MOE11	F9-4-220	RELAY	
MOD6	TES4537	SPRING	
MOD7	TES4537	SPRING	
MOE12	TES4537	SPRING	
MOD5	TES4537	SPRING	
RL806	TSE1885-1	RELAY	
RL571	TSEH8012	RELAY	
R805	232266296706	THERMISTOR	

Cct Ref	Parts Number	Description	
	TQB8E2688-1	ENGLISH	
INSTRUCTION BOOKS			
I.C.s			
IC101	LA7577N	V.I.F.	
IC251	TDA2030AV	AUDIO AMPLIFIER	
IC252	TDA2030AV	AUDIO AMPLIFIER	
IC351	TDA6111Q-N4	RGB OUTPUT	
IC361	TDA6111Q-N4	RGB OUTPUT	
IC371	TDA6111Q-N4	RGB OUTPUT	
IC401	TDA9151-B	DEFLECTION CONTROLLER	
IC451	TDA8350Q/N5	VERTICAL OUTPUT	
IC601	TDA9143-N1	COLOUR DECODER	
IC602	TDA4665-V5	DELAY LINE	
IC603	TDA4780/V4	RGB VIDEO PROCESSOR	
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	X24C0303AS	EPROM *	
IC1105	27C2001-609	EPROM *	
IC1301	SAA4961-V3	COMB FILTER	
IC1551	SN74F04DR	CLOCK BUFFER	
IC1552	SDA9257	CLOCK GENERATOR	
IC1581	SDA9205-2GEG	A/D CONVERTER	
IC1601	UPD93213GF	DFU	
IC1602	SDA9280B22GE	VIDEO PROCESSOR	
IC1701	MB87D202A	VIDEO PROCESSOR	
IC1721	SDA9251-2XGE	RAM	
IC1722	SDA9251-2XGE	RAM	
IC1723	SDA9251-2XGE	RAM	
IC1724	SDA9251-2XGE	RAM	
IC1725	SDA9251-2XGE	RAM	
IC1726	SDA9251-2XGE	RAM	
IC1727	SDA9251-2XGE	RAM	
IC1901	LA6515	EARTH CORRECTION	
IC2001	MSP3410DPPB4	AUDIO PROCESSOR	
IC3101	TEA6420	AUDIO SWITCH	
IC3102	TEA6415C	VIDEO SWITCH	
IC3501	SDA5273S/134	MEGA TEXT	
IC3502	M514256C70RS	DRAM	
IC3801	AN7808LB	8V REGULATOR	
IC3803	AN7805LB	5V REGULATOR	
IC3804	AN7809FLB	9V REGULATOR	
IC3805	AN78L08TA	8V REGULATOR	
FUSES			
F531	TR5-T1000	FUSE	
F801	XBA2C50TH15	FUSE	
F845	TR5-T2000	FUSE	

Cct Ref	Parts Number	Description
F846	TR5-T1250	FUSE
F8011	EYF52BC	FUSE HOLDER
F8012	EYF52BC	FUSE HOLDER
R585	TSF19201	FS LINK
DIODES		
D001	MA4020	DIODE
D002	MA4020	DIODE
D251	MA165TA5	DIODE
D252	MA165TA5	DIODE
D253	MA165TA5	DIODE
D254	MA165TA5	DIODE
D351	ERA15-04V3	DIODE
D352	ERA15-04V3	DIODE
D361	ERA15-04V3	DIODE
D362	ERA15-04V3	DIODE
D371	ERA15-04V3	DIODE
D372	ERA15-04V3	DIODE
D387	MA2160LFS	DIODE
D401	MA165TA5	DIODE
D451	MA4056	DIODE
D452	MA2330-ALF	DIODE
D453	TVSEM01ZV0	DIODE
D457	1SS252T-77	DIODE
D502	1SS254T-77	DIODE
D503	EU02	DIODE
D504	EU02	DIODE
D531	1SS254T-77	DIODE
D532	1SS254T-77	DIODE
D533	1SS254T-77	DIODE
D551	EU02	DIODE
D556	AU02V0	DIODE
D557	ERC91-02L9	DIODE
D558	AU02V0	DIODE
D559	MTZJT-7736A	DIODE
D560	1SS252T-77	DIODE
D561	1SS254T-77	DIODE
D563	RH3GLF102	DIODE
D571	FMV-3GULF027	DIODE
D572	RU3NLFA1	DIODE
D573	1SS254T-77	DIODE
D574	1SS252T-77	DIODE
D575	1SS252T-77	DIODE
D602	MA165TA5	DIODE
D603	MA165TA5	DIODE
D604	MA4062	DIODE
D706	MA165TA5	DIODE
D707	MA188TA	DIODE
D803	MTZJT-7711C	DIODE
D806	TF361MALF3	DIODE
D807	RBV-608LF-B	DIODE
D808	1SS254T-77	DIODE
D809	ERA22-02V3	DIODE
D810	MA2160LFS	DIODE
D812	MTZJT-775.6B	DIODE
D813	MA700TA5	DIODE
D814	AU01ZV0	DIODE
D815	PC123FY2	DIODE
D817	D5L60F4015	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

Cct Ref	Parts Number	Description
D848	EU02	DIODE
D849	FMGG26S	DIODE
D850	EU02	DIODE
D851	FMGG2CS	DIODE
D852	MTZJT-779.1C	DIODE
D853	1SS254T-77	DIODE
D854	1SS254T-77	DIODE
D855	D10SC6MRL	DIODE
D857	FML22SLF610	DIODE
D860	1SS254T-77	DIODE
D861	MTZJT-7713B	DIODE
D901	1SS254T-77	DIODE
D902	1SS254T-77	DIODE
D903	1SS254T-77	DIODE
D1051	LN81RPHL	DIODE
D1052	AU01V0	DIODE
D1053	AU01V0	DIODE
D1054	AU01V0	DIODE
D1055	AU01V0	DIODE
D1056	AU01V0	DIODE
D1057	AU01V0	DIODE
D1102	MA4051	DIODE
D1107	MTZJT-775.6A	DIODE
D1108	1SS254T-77	DIODE
D1109	1SS254T-77	DIODE
D1113	MA4051	DIODE
D1552	RLS72TE-11	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
D3121	RLS72TE-11	DIODE
D3351	1SS254T-77	DIODE
D3501	MA4030	DIODE
D3801	MA4043	DIODE
D3802	MTZJT-778.2A	DIODE
D3803	ERA81004V3	DIODE
D3805	MA4091	DIODE
D3806	MA165TA5	DIODE
D3807	MA165TA5	DIODE
TRANSISTORS		
Q008	BC847B	TRANSISTOR
Q101	BC847B	TRANSISTOR
Q102	BF370-126	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BF370-126	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q106	BC847B	TRANSISTOR
Q109	BC860B	TRANSISTOR
Q251	BC847B	TRANSISTOR
Q252	BC847B	TRANSISTOR
Q401	BC847B	TRANSISTOR
Q502	2SC2925STA	TRANSISTOR
Q531	BC547B	TRANSISTOR

Cct Ref	Parts Number	Description
Q532	BC547B	TRANSISTOR
Q533	BC547B	TRANSISTOR
Q535	BC547B	TRANSISTOR
Q551	BC547B	TRANSISTOR
Q552	2SC5144LBMA1	TRANSISTOR
Q553	2SC1473-RN	TRANSISTOR
Q554	2SC1473-RN	TRANSISTOR
Q572	BC547B	TRANSISTOR
Q573	BC557B	TRANSISTOR
Q574	2SD1265AOPLB	TRANSISTOR
Q601	BC847B	TRANSISTOR
Q602	BC857B	TRANSISTOR
Q603	BC847B	TRANSISTOR
Q604	BC857B	TRANSISTOR
Q605	BC857B	TRANSISTOR
Q607	BC847B	TRANSISTOR
Q608	BC847B	TRANSISTOR
Q609	BC847B	TRANSISTOR
Q610	BC847B	TRANSISTOR
Q611	BC847B	TRANSISTOR
Q612	BC847B	TRANSISTOR
Q801	2SK1489MAT	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
Q902	BC847B	TRANSISTOR
Q903	BC847B	TRANSISTOR
Q904	BC857B	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1052	BC557B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1102	BC847B	TRANSISTOR
Q1103	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1112	2SC3757QRX	TRANSISTOR
Q1191	BC847B	TRANSISTOR
Q1301	BC847B	TRANSISTOR
Q1303	BC847B	TRANSISTOR
Q1304	BC847B	TRANSISTOR
Q1501	BC847B	TRANSISTOR
Q1502	BC847B	TRANSISTOR
Q1503	BC847B	TRANSISTOR
Q1575	BC847B	TRANSISTOR
Q1642	BC847B	TRANSISTOR
Q1643	BC847B	TRANSISTOR
Q1644	BC857B	TRANSISTOR
Q1647	BC847B	TRANSISTOR
Q1648	BC857B	TRANSISTOR
Q1649	BC857B	TRANSISTOR
Q2001	BC860B	TRANSISTOR
Q2002	BC860B	TRANSISTOR
Q2003	BC860B	TRANSISTOR

Cct Ref	Parts Number	Description
Q2004	BC860B	TRANSISTOR
Q2006	BC857B	TRANSISTOR
Q2351	BC547B	TRANSISTOR
Q2352	BC547B	TRANSISTOR
Q2353	BC557B	TRANSISTOR
Q2361	BC547B	TRANSISTOR
Q2362	BC547B	TRANSISTOR
Q2363	BC557B	TRANSISTOR
Q3101	BC847B	TRANSISTOR
Q3102	BC847B	TRANSISTOR
Q3103	BC847B	TRANSISTOR
Q3104	BC847B	TRANSISTOR
Q3105	BC847B	TRANSISTOR
Q3106	BC847B	TRANSISTOR
Q3107	BC857B	TRANSISTOR
Q3108	BC847B	TRANSISTOR
Q3113	BC847B	TRANSISTOR
Q3114	BC847B	TRANSISTOR
Q3115	BC857B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3351	BC847B	TRANSISTOR
Q3352	BC857B	TRANSISTOR
Q3501	BC847B	TRANSISTOR
Q3502	BC847B	TRANSISTOR
Q3503	2SC3130TX	TRANSISTOR
Q3801	2SD1474PLB	TRANSISTOR
TRANSFORMERS		
T501	TLHA003	TRANSFORMER
T551	ZTFH65011A	F.B.T.
T801	ETP35KAN615U	TRANSFORMER
T802	ETS49AH137ND	TRANSFORMER
T803	ETQ19K55AY	TRANSFORMER
COILS		
	TLT100K991R	COIL
IC102	TLT220K991R	COIL
LC1603	ELKTR391CA	DELAY LINE
LC1503	ELKTR391CA	DELAY LINE
LC1602	ELKTR391CA	DELAY LINE
LC1601	ELKTR391CA	DELAY LINE
LC1609	ELKTR560BA	DELAY LINE
LC1510	EXCEMT103DTM	COIL
LC1509	EXCEMT103DTM	COIL
LC1508	EXCEMT103DTM	COIL
LC1507	EXCEMT103DTM	COIL
L002	TLT047K991R	COIL
L004	TLT047K991R	COIL
L005	TLT047K991R	COIL
L101	ELESNR56MA	COIL
L104	ELESN6R8KA	COIL
L105	ELESN2R2KA	COIL
L106	EIV7EN201B	COIL
L107	EIV7EN200B	COIL
L252	EXCELSA35T	COIL
L253	EXCELSA35T	COIL
L254	EXCELSA35T	COIL
L255	EXCELSA35T	COIL
L351	SDL5000	DELAY LINE
L352	EXCELD25V	COIL
L361	SDL5000	DELAY LINE
L362	EXCELD25V	COIL
L371	SDL5000	DELAY LINE
L372	EXCELD25V	COIL
L381	TLT220K991R	COIL
L401	EXCELD35V	COIL
L402	EXCELD35V	COIL
L451	EXCELD35V	COIL

Cct Ref	Parts Number	Description
L552	EXCELSA35T	COIL
L553	EXCELSA35T	COIL
L554	EXCELD35V	COIL
L555	EXCELD35C	COIL
L571	ELC18B801L	COIL
L572	ELHKL025B	COIL
L573	ELHKL028B	COIL
L575	ELC18B331E	COIL
L576	ELC08D101E	COIL
L601	TLT047K991R	COIL
L602	TLT047K991R	COIL
L603	TLT047K991R	COIL
L605	EXCELD35V	COIL
L801	ELF18D486D	COIL
L802	ELF18D486D	COIL
L807	ELF18D856A	COIL
L808	EXCELSA35T	COIL
L809	EXCELD35C	COIL
L810	EXCELSA39V	COIL
L811	EXCELSA39V	COIL
L812	EXCELD35V	COIL
L813	EXCELD35V	COIL
L817	EXCELD35V	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
L1102	EXCELD35V	COIL
L1103	EXCELD35V	COIL
L1104	EXCELSA35T	COIL
L1105	ELEXT4R7KA	COIL
L1301	TLT330K991R	COIL
L1302	TLT100K991R	COIL
L1303	TLT101K991R	COIL
L1304	TLT100K991R	COIL
L1306	TLT101K991R	COIL
L1501	EXCELD35V	COIL
L1502	TLT033K991R	COIL
L1503	TLT033K991R	COIL
L1504	TLT033K991R	COIL
L1552	EXCELD35V	COIL
L1553	EXCELD35V	COIL
L1575	EXCELD35V	COIL
L1576	EXCELD35V	COIL
L1601	EXCELD35V	COIL
L1602	EXCELD35V	COIL
L1603	TLT100K991R	COIL
L1604	TLT100K991R	COIL
L1605	TLT100K991R	COIL
L1606	TLT100K991R	COIL
L1607	EXCELD35V	COIL
L1641	EXCELD35V	COIL
L1701	EXCELD35V	COIL
L1721	EXCELD35V	COIL
L1722	EXCELD35V	COIL
L1901	EXCELD25V	COIL
L2001	TLT047K991R	COIL
L2003	EXCELD35V	COIL
L2005	TLT068K991R	COIL

Cct Ref	Parts Number	Description
L2351	ELEBR6R8KA	COIL
L2361	ELEBR6R8KA	COIL
L3001	ELEBR6R8KA	COIL
L3002	ELEBR6R8KA	COIL
L3003	ELEBR470KA	COIL
L3101	EXCELD35V	COIL
L3102	EXCELD35V	COIL
L3103	EXCELD35V	COIL
L3104	EXCELD35V	COIL
L3107	EXCELD35V	COIL
L3108	EXCELD35V	COIL
L3109	EXCELD35V	COIL
L3110	EXCELD35V	COIL
L3111	EXCELD35V	COIL
L3112	EXCELD35V	COIL
L3113	EXCELD35V	COIL
L3114	EXCELD35V	COIL
L3503	EXCELD35V	COIL
L3507	EXCELD35V	COIL
L3509	EXCELD35V	COIL
L3511	TLT100K991R	COIL
FILTERS		
X102	EFCV4155A3	CERAMIC FILTER
X104	J3352K	SAW FILTER
X106	EFCT6R0MW5	FILTER
CRYSTALS		
X601	TSSA024	CRYSTAL
X602	TSSA025	CRYSTAL
X1101	TAF10020	CRYSTAL
X1551	TSSA009	CRYSTAL
X2001	4730007158	CRYSTAL
X3501	TSSA009	CRYSTAL
RESISTORS		
	ERC12GK825	SOLID 0.5W 10% 8M2 Ω
	ERDS1TJ6R8	CARBON 0.5W 5% 6R8 Ω
C3181	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
C3183	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
C3185	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
D2008	ERD25TC0T	CARBON 0.25W 5% 0 Ω
J5F061	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F045	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F046	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F049	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F050	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5H010	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F054	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F059	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F062	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5H004	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5H005	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5H01	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5E09	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5H02	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F041	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F056	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5E025	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F002	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5E023	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5E022	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5E015	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5E012	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5F040	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
J5E010	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω

Cct Ref	Parts Number	Description				
JSE042	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE066	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSF038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSF026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSF015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSF005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSF004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSF001	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE072	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE068	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE064	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE058	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JA10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE057	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
JSE056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
L001	ERD25TC0T	CARBON	0.25W	5%	0 Ω	
L1307	ERD25TC0T	CARBON	0.25W	5%	0 Ω	
R003	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R006	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R011	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R101	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R102	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R104	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R105	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R108	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R111	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R112	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R113	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R114	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R115	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R116	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R118	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R119	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R122	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R123	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R124	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R125	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R126	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R127	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R128	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R129	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R131	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R133	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R135	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R137	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R138	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R141	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R142	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω	
R143	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R144	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R145	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R146	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R147	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	

Cct Ref	Parts Number	Description				
R148	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω	
R149	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R151	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R153	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R251	ERJ6GEYJ2R2	S.M.CARB	0.1W	5%	2R2 Ω	
R252	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R253	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R254	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R255	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R256	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R257	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R258	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R259	ERG3SJS120	METAL	3W	5%	12 Ω	▲
R260	ERJ6GEYJ2R2	S.M.CARB	0.1W	5%	2R2 Ω	
R261	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R262	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R263	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R264	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R265	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R266	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R267	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R268	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R269	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R270	ERG3SJS120	METAL	3W	5%	12 Ω	▲
R351	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R352	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R355	ERG2FJ823	METAL	2W	5%	82K Ω	▲
R356	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R357	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R358	ERDS1TJ821	CARBON	0.5W	5%	820 Ω	
R359	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330K Ω	
R360	ERDS1TJ103	CARBON	0.5W	5%	10K Ω	
R361	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R362	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R364	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R365	ERG2FJ823	METAL	2W	5%	82K Ω	▲
R366	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R367	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R368	ERDS1TJ821	CARBON	0.5W	5%	820 Ω	
R369	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R370	ERQ1CJP1R0	FUSIBLE	1W	5%	1 Ω	▲
R371	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R372	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R374	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R375	ERG2FJ823	METAL	2W	5%	82K Ω	▲
R376	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R377	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R378	ERDS1TJ821	CARBON	0.5W	5%	820 Ω	
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R380	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R381	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R383	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R384	ERQ12HJ101	FUSIBLE	0.5W	5%	100 Ω	▲
R390	ERDS1TJ184	CARBON	0.5W	5%	180 Ω	
R401	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R402	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R403	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω	
R406	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R407	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R408	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R409	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R410	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω	
R411	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R412	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R451	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	

Cct Ref	Parts Number	Description					
R452	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	Ω	
R453	ERG2FJ820	METAL	2W	5%	82	Ω	⚠
R454	ERX12SJ1R0	METAL	0.5W	5%	1	Ω	⚠
R455	ERX12SJ1R2	METAL	0.5W	5%	1R2	Ω	⚠
R456	ERDS1TJ220	CARBON	0.5W	5%	22	Ω	
R457	ERDS1TJ223	CARBON	0.5W	5%	22K	Ω	
R458	ERDS1TJ392	CARBON	0.5W	5%	3K9	Ω	
R459	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω	
R460	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω	
R461	ERJ6GEYJ184	S.M.CARB	0.1W	5%	180K	Ω	
R504	ERD25TJ271	CARBON	0.25W	5%	270	Ω	
R505	ERG3SJS330	METAL	3W	5%	22	Ω	⚠
R506	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω	
R507	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω	
R531	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R532	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R533	ERD25TJ683	CARBON	0.25W	5%	68K	Ω	
R534	ERD25TJ473	CARBON	0.25W	5%	47K	Ω	
R535	ERD25TJ472	CARBON	0.25W	5%	47K	Ω	
R536	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R539	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R540	ERD25TJ183	CARBON	0.25W	5%	18K	Ω	
R541	ERD25TJ102	CARBON	0.25W	5%	1K	Ω	
R542	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R543	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω	
R547	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R551	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R552	ERD25TJ473	CARBON	0.25W	5%	47K	Ω	
R553	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R554	ERX3SJSR27H	METAL	3W	5%	R27	Ω	
R555	ERO25CKF2802	METAL	0.25W	1%	8K	Ω	⚠
R556	ERO50PKF2802	METAL	0.5W	1%	8K	Ω	⚠
R557	ERO25CKF6492	METAL	0.25W	1%	4K9	Ω	⚠
R558	ERO50PKF4532	METAL	0.5W	1%	5K3	Ω	⚠
R559	ERO25CKF1002	METAL	0.25W	1%	10K	Ω	⚠
R560	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω	
R562	ERD25TJ473	CARBON	0.25W	5%	47K	Ω	
R564	ERDS1TJ394	CARBON	0.5W	5%	390K	Ω	
R565	ERQ14AJW2R2	FUSIBLE	0.25W	5%	2R2	Ω	⚠
R566	ERDS1TJ183	CARBON	0.5W	5%	18K	Ω	
R567	ERG2ANJ223	METAL	2W	5%	22K	Ω	⚠
R568	ERQ12HJ330	FUSIBLE	0.5W	5%	33	Ω	⚠
R569	ERDS1TJ120	CARBON	0.5W	5%	12	Ω	
R570	ERD25TJ103	CARBON	0.25W	5%	10K	Ω	
R571	ERX3FJ2R7H	METAL	3W	5%	2R7	Ω	
R572	ERG3FJ821	METAL	3W	5%	820	Ω	⚠
R574	ERG3FJ151	METAL	3W	5%	150	Ω	⚠
R577	ERD25TJ683	CARBON	0.25W	5%	68K	Ω	
R578	ERD25TJ153	CARBON	0.25W	5%	15K	Ω	
R579	ERD25TJ274	CARBON	0.25W	5%	270K	Ω	
R580	ERD25TJ563	CARBON	0.25W	5%	56K	Ω	
R581	ERD25TJ104	CARBON	0.25W	5%	100K	Ω	
R582	ERD25TJ225	CARBON	0.25W	5%	2M2	Ω	
R583	ERD25TJ225	CARBON	0.25W	5%	2M2	Ω	
R584	ERD25TJ152	CARBON	0.25W	5%	1K5	Ω	
R587	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω	
R588	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω	
R589	ERDS1TJ100	CARBON	0.5W	5%	10	Ω	
R591	ERF2AKR15	WOUND	2W	10%	R15	Ω	⚠
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω	
R602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω	
R603	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	
R604	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω	
R605	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω	
R606	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω	
R609	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω	

Cct Ref	Parts Number	Description						
R610	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K	Ω		
R612	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω		
R613	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω		
R615	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	Ω		
R616	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω		
R617	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω		
R618	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω		
R619	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R620	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R621	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R624	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω		
R625	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω		
R626	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω		
R627	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω		
R628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω		
R629	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R630	ERJ6GEYJ390	S.M.CARB	0.1W	5%	39	Ω		
R632	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω		
R633	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω		
R634	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω		
R635	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω		
R636	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R637	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω		
R639	EVNDXAA03B32	CONTROL					300	Ω
R640	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R643	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω		
R644	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω		
R645	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270	Ω		
R646	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω		
R648	ERJ6GEYJ150	S.M.CARB	0.1W	5%	15	Ω		
R649	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R651	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2	Ω		
R652	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω		
R653	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω		
R654	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω		
R655	ERJ6GEYJ243	S.M.CARB	0.1W	5%	24K	Ω		
R656	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω		
R657	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω		
R658	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω		
R659	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω		
R660	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω		
R661	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω		
R662	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R663	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R664	ERC14GJ206V	SOLID	0.25W	5%	20M	Ω		
R665	ERC14GJ206V	SOLID	0.25W	5%	20M	Ω		
R666	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω		
R667	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω		
R668	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω		
R711	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K	Ω		
R712	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω		
R714	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	Ω		
R715	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω		
R716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω		
R717	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω		
R718	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω		
R753	ERD25TJ333	CARBON	0.25W	5%	33K	Ω		
R806	ERD25TJ101	CARBON	0.25W	5%	100	Ω		
R807	ERD25TJ104	CARBON	0.25W	5%	100K	Ω		
R809	ERF10ZK4R7	WOUND	10W	5%	4R7	Ω	⚠	
R810	ERD25TJ223	CARBON	0.25W	5%	22K	Ω		
R811	ERD25TJ102	CARBON	0.25W	5%	1K	Ω		
R812	ERD25TJ681	CARBON	0.25W	5%	680	Ω		
R814	ERD25TJ332	CARBON	0.25W	5%	3K3	Ω		
R815	ERD25TJ150	CARBON	0.25W	5%	15	Ω		

Cct Ref	Parts Number	Description				
R816	ERDS1TJ470	CARBON	0.5W	5%	47	Ω
R818	ERD25TJ331	CARBON	0.25W	5%	330	Ω
R820	ERG3FJ223	METAL	3W	5%	22K	Ω
R821	ERG3FJ223	METAL	3W	5%	22K	Ω
R822	ERD25TJ391	CARBON	0.25W	5%	390	Ω
R823	ERX2SJR22	METAL	2W	5%	R22	Ω
R824	ERX2SJR22	METAL	2W	5%	R22	Ω
R825	ERX2SJR22	METAL	2W	5%	R22	Ω
R827	ERDS1FJ100	CARBON	0.5W	5%	10	Ω
R828	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R829	ERD25TJ471	CARBON	0.25W	5%	470	Ω
R831	ERD75TAJ825	CARBON	0.75W	5%	8M2	Ω
R832	ERG1SJ331	METAL	1W	5%	330	Ω
R835	ERD25TJ220	CARBON	0.25W	5%	22	Ω
R836	ERD25TJ100	CARBON	0.25W	5%	10	Ω
R837	ERD25TJ153	CARBON	0.25W	5%	15K	Ω
R838	ERD25TJ102	CARBON	0.25W	5%	1K	Ω
R847	ERQ1CKPR68	FUSIBLE	1W	10%	R68	Ω
R853	ERO25CKF1002	METAL	0.25W	1%	10K	Ω
R854	ERDS1TJ153	CARBON	0.5W	5%	15K	Ω
R855	ERD25TJ472	CARBON	0.25W	5%	4K7	Ω
R856	ERD25TJ473	CARBON	0.25W	5%	47K	Ω
R858	ERO25CKF1002	METAL	0.25W	1%	10K	Ω
R862	ERD25TJ472	CARBON	0.25W	5%	4K7	Ω
R863	ERG3FJ680H	METAL	3W	5%	68	Ω
R864	ERDS1TJ103	CARBON	0.5W	5%	10K	Ω
R865	ERG3FJ680H	METAL	3W	5%	68	Ω
R867	ERD25TJ102	CARBON	0.25W	5%	1K	Ω
R870	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R873	ERDS1TJ3R3	CARBON	0.5W	5%	3R3	Ω
R876	ERD25TJ562	CARBON	0.25W	5%	5K6	Ω
R877	ERO25CKF1022	METAL	0.25W	1%	10K2	Ω
R878	ERO25CKF1002	METAL	0.25W	1%	10K	Ω
R883	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R885	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R886	ERF10ZK4R7	WOUND	10W	5%	4R7	Ω
R888	ERDS1TJ393	CARBON	0.5W	5%	39K	Ω
R889	ERD25TJ392	CARBON	0.25W	5%	3K9	Ω
R890	ERX3SJR56	METAL	3W	5%	R56	Ω
R891	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R892	ERD25TJ221	CARBON	0.25W	5%	2K2	Ω
R894	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R905	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω
R906	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	Ω
R907	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2	Ω
R908	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R909	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R910	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R911	ERD25TJ561	CARBON	0.25W	5%	560	Ω
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω
R914	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R915	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8	Ω
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R918	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39	Ω
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39	Ω
R922	ERD25TJ683	CARBON	0.25W	5%	68K	Ω
R923	ERD25TJ683	CARBON	0.25W	5%	68K	Ω
R924	ERDS1FYJ390	CARBON	0.5W	5%	39	Ω
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R927	ERD25TJ122	CARBON	0.25W	5%	1K2	Ω
R928	ERD25TJ2R7	CARBON	0.25W	5%	2R7	Ω
R929	ERDS1FYJ471	CARBON	0.5W	5%	470	Ω
R930	ERD25TJ2R7	CARBON	0.25W	5%	2R7	Ω
R931	ERDS1FYJ390	CARBON	0.5W	5%	39	Ω

Cct Ref	Parts Number	Description				
R932	ERDS1FYJ101	CARBON	0.5W	5%	100	Ω
R933	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R934	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9	Ω
R936	ERQ1CJP102	FUSIBLE	1W	5%	1K	Ω
R937	ERQ14AJW100	FUSIBLE	0.25W	5%	10	Ω
R938	ERD25TJ122	CARBON	0.25W	5%	1K2	Ω
R940	ERD25TJ3R3	CARBON	0.25W	5%	3R3	Ω
R941	ERD25TJ3R3	CARBON	0.25W	5%	3R3	Ω
R1054	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R1057	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R1058	ERD25TJ471	CARBON	0.25W	5%	470	Ω
R1059	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R1061	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R1062	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R1063	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R1064	ERD25TJ332	CARBON	0.25W	5%	3K3	Ω
R1065	ERD25TJ512	CARBON	0.25W	5%	5K1	Ω
R1066	ERD25TJ912	CARBON	0.25W	5%	9K1	Ω
R1101	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1102	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1103	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1104	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1105	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1106	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1107	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1108	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1111	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1118	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1122	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1123	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1124	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1125	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1128	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω
R1129	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω
R1133	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1135	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R1136	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R1137	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560	Ω
R1138	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1142	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1143	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω
R1144	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1145	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1149	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R1150	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1151	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1152	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1153	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1154	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1156	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8	Ω
R1163	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	Ω
R1164	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1169	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1170	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R1171	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	Ω

Cct Ref	Parts Number	Description				
R1172	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1174	ERDS1TJ561	CARBON	0.5W	5%	560 Ω	
R1182	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1183	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1184	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1185	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1186	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1188	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R1190	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1191	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1192	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1193	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1194	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1301	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1302	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω	
R1305	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1306	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1307	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R1308	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω	
R1313	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1315	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1317	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω	
R1318	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω	
R1319	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1320	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1321	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1322	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1323	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1324	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1325	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1326	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1327	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R1328	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1329	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1337	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R1340	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R1501	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1502	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1504	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R1507	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R1508	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R1510	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1511	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R1513	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R1515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1516	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1518	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1519	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1520	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1523	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1550	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R1551	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1552	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1554	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1555	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1563	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1568	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R1570	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1572	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1575	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1576	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R1577	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	

Cct Ref	Parts Number	Description				
R1578	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω	
R1581	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1608	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1620	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1621	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1622	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1624	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1625	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R1626	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1627	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω	
R1628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1629	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω	
R1630	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω	
R1631	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1632	ERJ6GEYJ133	S.M.CARB	0.1W	5%	13K Ω	
R1633	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1634	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1641	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1643	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1644	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1646	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1648	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1649	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1650	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1653	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1654	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1656	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1659	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1662	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1666	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1667	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1668	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1679	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1680	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1681	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1682	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1683	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1688	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1701	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1703	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1704	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1706	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1707	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1710	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1713	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1724	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1730	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R1777	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1778	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R1901	ERD25TJ110	CARBON	0.25W	5%	11 Ω	
R1902	ERD25TJ110	CARBON	0.25W	5%	11 Ω	
R1903	ERD25TJ154	CARBON	0.25W	5%	150K Ω	
R1904	ERD25TJ154	CARBON	0.25W	5%	150K Ω	
R1905	ERD25TJ154	CARBON	0.25W	5%	150K Ω	
R1906	ERD25TJ753	CARBON	0.25W	5%	75K Ω	
R1908	ERD25TJ682	CARBON	0.25W	5%	6K8 Ω	
R1909	ERD25TJ362	CARBON	0.25W	5%	3K6 Ω	
R2001	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R2004	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R2005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	

Cct Ref	Parts Number	Description				
R2006	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2007	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R2008	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2009	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2010	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2011	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2013	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2015	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2016	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2017	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2019	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2020	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R2021	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2022	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2044	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2045	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2351	ERQ14AJW100	FUSIBLE	0.25W	5%	10 Ω	⚠
R2352	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2353	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2354	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R2355	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2356	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2357	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2358	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2359	ERD25TJ271	CARBON	0.25W	5%	270 Ω	
R2360	ERD25TJ183	CARBON	0.25W	5%	18K Ω	
R2361	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R2371	ERQ14AJW100	FUSIBLE	0.25W	5%	10 Ω	⚠
R2372	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2373	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2374	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R2375	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2376	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2377	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2378	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2379	ERD25TJ271	CARBON	0.25W	5%	270 Ω	
R2380	ERD25TJ183	CARBON	0.25W	5%	18K Ω	
R2381	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R3006	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3108	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3109	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3110	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3111	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3114	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3115	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3117	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3118	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3119	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3122	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3123	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3124	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3125	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3126	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3127	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3128	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	

Cct Ref	Parts Number	Description				
R3129	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3130	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3131	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3132	ERD2FCVG100T	CARBON	2W	5%	10 Ω	⚠
R3133	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3134	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3135	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3136	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3137	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3138	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3139	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3140	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3141	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3142	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3143	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3144	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3146	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3147	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3148	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3149	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3150	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3153	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3154	ERD2FCVG100T	CARBON	2W	5%	10 Ω	⚠
R3158	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3159	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3160	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R3161	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R3162	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3163	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3165	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3167	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3180	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3182	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3184	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3185	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3186	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3187	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3188	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3192	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3193	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3194	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3196	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3197	ERD2FCVG100T	CARBON	2W	5%	10 Ω	⚠
R3198	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3199	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3200	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3201	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R3202	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R3205	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3206	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3207	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3208	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3210	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R3211	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R3212	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R3213	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3214	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3215	ERD2FCVG100T	CARBON	2W	5%	10 Ω	⚠
R3216	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω	
R3217	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	

Cct Ref	Parts Number	Description			
R3218	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3219	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3220	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3221	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3222	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω
R3223	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3224	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3225	ERD2FCVG100T	CARBON	2W	5%	10 Ω
R3226	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3227	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3228	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω
R3229	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3230	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3231	ERD2FCVG100T	CARBON	2W	5%	10 Ω
R3232	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R3233	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R3236	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3238	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3239	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3240	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3351	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3352	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3353	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K Ω
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3501	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3503	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3505	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3506	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3507	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3508	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R3509	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3513	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3514	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3515	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3516	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3518	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3520	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3521	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3522	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3523	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3526	ERD25TC0T	CARBON	0.25W	5%	0 Ω
R3531	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3534	ERD25TJ181	CARBON	0.25W	5%	180 Ω
R3536	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3539	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3540	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω
R3541	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω
R3542	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω
R3802	ERG3FJ100	METAL	3W	5%	10 Ω
R3803	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3804	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
CAPACITORS					
C002	ECUV1H102JCX	S.M. CAP	50V		1nF
C003	ECA1HM101GB	ELECT	50V		100µF
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		1nF
C010	ECUV1H102KBX	S.M. CAP	50V		1nF
C014	ECJ2VF1H103Z	ELECT	350V		10nF

Cct Ref	Parts Number	Description			
C015	ECUV1H390JCX	S.M. CAP	50V		39pF
C016	ECUV1H390JCX	S.M. CAP	50V		39pF
C017	ECA1CM470GB	ELECT	16V		47µF
C019	ECUV1H561JCX	S.M. CAP	50V		560pF
C020	ECJ2VF1H103Z	ELECT	350V		10nF
C022	ECJ2VF1H103Z	ELECT	350V		10nF
C023	ECUV1H681JCX	S.M. CAP	50V		680pF
C024	ECJ2VF1H103Z	ELECT	350V		10nF
C025	ECUV1H101JCX	S.M. CAP	50V		100pF
C026	ECUV1H681JCX	S.M. CAP	50V		680pF
C101	ECUV1H151JCX	S.M. CAP	50V		150pF
C103	ECUV1H100DCX	S.M. CAP	50V		10pF
C107	ECUV1H104ZFX	S.M. CAP	50V		100nF
C108	ECUV1H102KBX	S.M. CAP	50V		1nF
C110	ECUV1H102KBX	S.M. CAP	50V		1nF
C112	ECUV1H104ZFX	S.M. CAP	50V		100nF
C113	ECUV1H102KBX	S.M. CAP	50V		1nF
C114	ECUV1H102KBX	S.M. CAP	50V		1nF
C116	ECUV1H104ZFX	S.M. CAP	50V		100nF
C117	ECUV1H104ZFX	S.M. CAP	50V		100nF
C118	ECUV1H331JCX	S.M. CAP	50V		330pF
C119	ECEA1HKA2R2	ELECT	50V		2.2µF
C120	ECEA1HKAR47	ELECT	50V		2.2µF
C122	ECUV1H104ZFX	S.M. CAP	50V		100nF
C123	ECUV1H104ZFX	S.M. CAP	50V		100nF
C124	ECUV1H104ZFX	S.M. CAP	50V		100nF
C126	ECUV1H104ZFX	S.M. CAP	50V		100nF
C127	ECEA1HKAR47	ELECT	50V		100nF
C128	ECUV1H104ZFX	S.M. CAP	50V		100nF
C129	ECUV1H104ZFX	S.M. CAP	50V		100nF
C130	ECUV1H121JCX	S.M. CAP	50V		120pF
C131	ECUV1H104ZFX	S.M. CAP	50V		100nF
C132	ECUV1H270JPX	S.M. CAP	50V		27pF
C133	ECUV1H104ZFX	S.M. CAP	50V		100nF
C135	ECEA1CKA100	ELECT	16V		10µF
C137	ECEA1HKA010	ELECT	50V		1µF
C138	ECUV1H102KBX	S.M. CAP	50V		1nF
C139	ECUV1H390JPX	S.M. CAP	50V		39pF
C140	ECUV1H150JCX	S.M. CAP	50V		15pF
C141	ECUV1H683ZFX	S.M. CAP	50V		68nF
C143	ECEA1CKA100	ELECT	16V		10µF
C144	ECUV1H104ZFX	S.M. CAP	50V		100nF
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		10µF
C256	ECA1HM2R2GB	ELECT	50V		2.2µF
C257	ECA1HM100GB	ELECT	50V		10µF
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		10µF
C263	ECA1HM2R2GB	ELECT	50V		2.2µF
C264	ECA1HM100GB	ELECT	50V		10µF
C267	ECJ2VF1H103Z	ELECT	350V		10nF
C268	ECJ2VF1H223Z	ELECT	350V		22nF
C269	ECA1EM222GB	ELECT	25V		22nF
C270	ECA1EM222GB	ELECT	25V		22nF
C271	ECA1HM010GB	ELECT	50V		1µF
C272	ECA1HM010GB	ELECT	50V		1µF
C273	ECA1HM010GB	ELECT	50V		1µF
C274	ECA1HM010GB	ELECT	50V		1µF
C275	ECUV1C184KBX	S.M. CAP	16V		180nF
C276	ECUV1C184KBX	S.M. CAP	16V		180nF

Cct Ref	Parts Number	Description			
C277	ECEA1HU471	ELECT	50V	470µF	
C281	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C282	ECUV1H561JCX	S.M. CAP	50V	560pF	
C283	ECUV1H561JCX	S.M. CAP	50V	560pF	
C352	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C353	ECUV1H104KBX	S.M. CAP	50V	100nF	
C354	ECKC2H103J	CERAMIC	50V	10nF	⚠
C355	ECKC2H102J	CERAMIC	500V	1nF	⚠
C362	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C363	ECUV1H104KBX	S.M. CAP	50V	100nF	
C364	ECKC2H103J	CERAMIC	50V	10nF	⚠
C365	ECKC2H102J	CERAMIC	500V	1nF	⚠
C372	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C373	ECUV1H104KBX	S.M. CAP	50V	100nF	
C374	ECKC2H103J	CERAMIC	50V	10nF	⚠
C375	ECKC2H102J	CERAMIC	500V	1nF	⚠
C381	ECA1HM101GB	ELECT	50V	100µF	
C382	ECA1CM471GB	ELECT	16V	470µF	
C383	ECUV1H103KBX	S.M. CAP	50V	10nF	
C384	ECQM2104KZ	FILM	250V	100nF	
C385	ECEA2EU220	ELECT	250V	22µF	
C386	ECKC3D152J	CERAMIC	2KV	1.5nF	⚠
C395	ECQM1H104J	FILM	50V	100nF	
C402	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C403	ECA1AM332E	ELECT	10V	100nF	
C404	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C405	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C406	ECUV1H471JCX	S.M. CAP	50V	470pF	
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	100nF	
C453	ECEA1HU101	ELECT	50V	100µF	
C455	ECEA1HN100	ELECT	50V	10µF	
C456	ECQV1104JZ3	FILM	100V	100nF	
C457	ECUV1H102JCX	S.M. CAP	50V	1nF	
C461	ECUV1C224KBX	S.M. CAP	16V	220nF	
C462	ECKC3A471J	CERAMIC	1KV	470pF	⚠
C463	ECUV1H102KBX	S.M. CAP	50V	1nF	
C464	ECKC1H102J	CERAMIC	50V	1nF	
C501	ECQM1H224J	FILM	50V	220nF	
C502	ECQM2683JZ	FILM	250V	68nF	
C503	ECKC2H102J	CERAMIC	500V	1nF	⚠
C504	ECQB1H223K	FILM	50V	22nF	
C506	ECKC2H102J	CERAMIC	500V	1nF	⚠
C552	ECWH15H102JN	FILM	1500V	1nF	
C553	ECQP1223JZW	FILM	100V	22nF	
C555	TAC4R6T622JC	CERAMIC	400V	6.2µF	
C556	ECEA2CNR47SB	ELECT	160V	6.2µF	
C557	ECKC2H331J	CERAMIC	500V	330pF	⚠
C558	ECA2EM330B	ELECT	250V	33µF	
C559	ECKC2H101J	CERAMIC	500V	100pF	⚠
C560	ECA1EM332E	ELECT	25V	100pF	
C561	ECKC2H561J	CERAMIC	500V	560pF	⚠
C562	ECA1JM220B	ELECT	63V	22µF	
C563	TAC7A2D564JC	CERAMIC	1500V	560nF	
C564	ECKC1H472J	CERAMIC	50V	4.7nF	
C565	ECQP1223JZW	FILM	100V	22nF	
C571	ECQV1H105JZ	FILM	50V	1µF	
C572	TAC4R6T682JC	CERAMIC	400V	6.8µF	
C573	ECQF4153JZH	FILM	400V	1.5nF	⚠
C574	ECWF4564JBB	FILM	400V	560nF	
C575	ECWF4564JBB	FILM	400V	560nF	
C577	TAC1114Z105A	CERAMIC	100V	1µF	
C580	ECKC1H103JB	CERAMIC	50V	10nF	
C581	ECQF4153JZH	FILM	400V	1.5nF	⚠

Cct Ref	Parts Number	Description			
C584	ECKC3D391J	CERAMIC	2KV	390pF	⚠
C585	ECKC3A471J	CERAMIC	1KV	470pF	⚠
C586	ECKC1H103JB	CERAMIC	50V	10nF	
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	470nF	
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	22µF	
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	ECJ2VF1H103Z	ELECT	350V	10nF	
C624	ECJ2VF1H103Z	ELECT	350V	10nF	
C625	ECJ2VF1H103Z	ELECT	350V	10nF	
C626	ECJ2VF1H103Z	ELECT	350V	10nF	
C627	ECJ2VF1H103Z	ELECT	350V	10nF	
C628	ECJ2VF1H103Z	ELECT	350V	10nF	
C629	ECJ2VF1H103Z	ELECT	350V	10nF	
C630	ECJ2VF1H103Z	ELECT	350V	10nF	
C631	ECJ2VF1H103Z	ELECT	350V	10nF	
C632	ECJ2VF1H103Z	ELECT	350V	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	ECUV1H820JCX	S.M. CAP	50V	82pF	
C654	ECUV1H393KBX	S.M. CAP	50V	39nF	
C655	ECJ2VB1E563K	ELECT	350V	56nF	
C657	ECUV1C474ZFX	S.M. CAP	16V	470nF	
C659	ECUV1H821KBX	S.M. CAP	50V	820pF	
C661	ECJ2VF1H103Z	ELECT	350V	10nF	
C662	ECUV1H470JCX	S.M. CAP	50V	47pF	
C663	ECUV1H150JCX	S.M. CAP	50V	15pF	
C703	ECUV1C224KBX	S.M. CAP	16V	220nF	
C752	ECKC2H103J	CERAMIC	50V	10nF	⚠
C803	ECQE2A474MWB	FILM	100V	470nF	
C804	222233510154	FILM	50V	100µF	
C806	ECQE6104K	FILM	600V	100nF	⚠
C807	ECQB1H473K	FILM	50V	47nF	
C808	ECQB1H333J	FILM	50V	33nF	
C810	222233510154	FILM	50V	100µF	

Cct Ref	Parts Number	Description			
C811	ECQB1H104J	FILM	50V	100nF	
C812	ECQB1H222J	FILM	50V	2.2nF	
C813	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C814	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C815	ECA1CM331B	ELECT	16V	330µF	
C816	ECQB1H122J	FILM	50V	1.2nF	
C817	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C818	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C819	ECOS2GG181NG	ELECT	400V	180µF	⚠
C820	ECOS2GG181NG	ELECT	400V	180µF	⚠
C821	ECQB1H222J	FILM	50V	2.2nF	
C822	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C823	EEUFA1V221B	CERAMIC	35V	220µF	
C824	ECQB1H121KF3	FILM	50V	120pF	
C826	ECQB1H473K	FILM	50V	47nF	
C827	ECKCNS332J	CERAMIC	1.2KV	3.3nF	⚠
C830	ECQE4105JFW	FILM	400V	1µF	⚠
C831	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C833	ECQB1H682K	FILM	50V	6.8nF	
C834	ECQB1H471KF3	FILM	50V	470pF	
C835	ECQB1H152K	FILM	50V	1.5nF	
C849	ECKC2H471J	CERAMIC	500V	470pF	⚠
C851	ECQM1H104J	FILM	50V	100nF	
C852	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C853	ECA1CM471GB	ELECT	16V	470µF	
C854	ECA1EM471GB	ELECT	25V	470µF	
C855	ECEA1HU102	ELECT	50V	470µF	
C856	ECEA1HU471	ELECT	50V	470µF	
C857	ECA1EM471GB	ELECT	25V	470µF	
C858	ECOS2EA271BB	ELECT	250V	270µF	
C859	ECKC2H471J	CERAMIC	500V	470pF	⚠
C861	ECOS2EA221AB	ELECT	250V	220µF	
C863	ECA1EM222GB	ELECT	25V	220µF	
C864	ECA0JM102GB	ELECT	6.3V	220µF	
C866	ECA1HM101GB	ELECT	50V	100µF	
C867	ECA1CM222GB	ELECT	16V	100µF	
C868	ECA1CM100GB	ELECT	16V	10µF	
C871	ECA0JM102GB	ELECT	6.3V	10µF	
C872	ECA1CM222GB	ELECT	16V	10µF	
C901	ECUV1H030CCX	S.M. CAP	50V	30pF	
C902	ECA1VM101GB	ELECT	35V	100µF	
C903	ECA1CM470GB	ELECT	16V	47µF	
C904	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C905	ECA1CM100GB	ELECT	16V	10µF	
C906	ECUV1H151JCX	S.M. CAP	50V	150pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECEA2EU220	ELECT	250V	22µF	
C913	ECA1HM101GB	ELECT	50V	100µF	
C914	ECA1HM101GB	ELECT	50V	100µF	
C915	ECA1CM471GB	ELECT	16V	470µF	
C916	ECEA2EU220	ELECT	250V	22µF	
C917	ECA1HM100GB	ELECT	50V	10µF	
C918	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C919	ECCR2H270J	CERAMIC	500V	27pF	
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	

Cct Ref	Parts Number	Description			
C1108	ECJ2VF1H103Z	ELECT	350V	10nF	
C1109	ECUV1H472KXB	S.M. CAP	50V	4.7nF	
C1110	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1111	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1112	ECJ2VF1H103Z	ELECT	350V	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	ECUV1C184KXB	S.M. CAP	16V	180nF	
C1134	ECUV1H103KXB	S.M. CAP	50V	10nF	
C1135	ECJ2VF1H103Z	ELECT	350V	10nF	
C1136	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1137	ECUV1H102KXB	S.M. CAP	50V	1nF	
C1138	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1302	ECUV1H150JCX	S.M. CAP	50V	15pF	
C1304	ECJ2VF1H103Z	ELECT	350V	10nF	
C1305	ECA1HM101GB	ELECT	50V	100µF	
C1306	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1307	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1308	ECA1HM101GB	ELECT	50V	100µF	
C1309	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1310	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1311	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1312	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1313	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1314	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1315	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1316	ECA1HM101GB	ELECT	50V	100µF	
C1317	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1318	ECA1HM101GB	ELECT	50V	100µF	
C1321	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1322	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1323	ECA1HM101GB	ELECT	50V	100µF	
C1324	ECA1HM101GB	ELECT	50V	100µF	
C1325	ECJ2VF1H103Z	ELECT	350V	10nF	
C1326	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1327	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1508	ECUV1H103KXB	S.M. CAP	50V	10nF	
C1509	ECA1CM100GB	ELECT	16V	10µF	
C1518	ECA1HM101GB	ELECT	50V	100µF	
C1519	ECA1CM470GB	ELECT	16V	47µF	
C1520	ECA1CM470GB	ELECT	16V	47µF	
C1521	ECUV1H390JCX	S.M. CAP	50V	39pF	
C1524	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1525	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1528	ECUV1H390JCX	S.M. CAP	50V	39pF	
C1529	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1531	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1532	ECUV1H151JCX	S.M. CAP	50V	150pF	
C1533	ECUV1H750JCX	S.M. CAP	50V	75pF	
C1534	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1537	ECA0JM102GB	ELECT	6.3V	390pF	
C1552	ECUV1H104ZFX	S.M. CAP	50V	100nF	
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	
C1559	ECUV1H103KXB	S.M. CAP	50V	10nF	
C1560	ECUV1H103KXB	S.M. CAP	50V	10nF	
C1561	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1562	ECA0JM331GB	ELECT	6.3V	330µF	

Cct Ref	Parts Number	Description		
C1564	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1575	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1576	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1577	ECA1CM470GB	ELECT	16V	47µF
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	ECA1CM470GB	ELECT	16V	47µF
C1590	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1591	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1592	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1593	ECA1CM470GB	ELECT	16V	47µF
C1594	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1595	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1596	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1599	ECA1CM470GB	ELECT	16V	47µF
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	ECA1CM470GB	ELECT	16V	47µF
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	ECA1CM470GB	ELECT	16V	47µF
C1622	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1625	ECA1CM470GB	ELECT	16V	47µF
C1641	ECA1CM470GB	ELECT	16V	47µF
C1642	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1701	ECA1CM470GB	ELECT	16V	47µF
C1702	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1703	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1704	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1705	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1706	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1707	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1708	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1709	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1710	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1711	ECUV1H103KBX	S.M. CAP	50V	10nF
C1712	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1713	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1714	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1721	ECA1CM470GB	ELECT	16V	47µF
C1722	ECA1CM470GB	ELECT	16V	47µF
C1723	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1724	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1725	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1726	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1727	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1728	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1729	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1730	ECUV1H104ZFX	S.M. CAP	50V	100nF

Cct Ref	Parts Number	Description		
C1731	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1732	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1733	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1734	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1735	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1736	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1740	ECUV1H102KBX	S.M. CAP	50V	1nF
C1901	ECQM1H474J	FILM	50V	470nF
C1902	ECQM1H474J	FILM	50V	470nF
C1903	ECA1EM470GB	ELECT	25V	47µF
C1904	ECKC1H103JB	CERAMIC	50V	10nF
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
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
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	ECJ2VF1H223Z	ELECT	350V	22nF
C2051	ECJ2VF1H223Z	ELECT	350V	22nF
C2052	ECJ2VF1H103Z	ELECT	350V	10nF
C2053	ECJ2VF1H103Z	ELECT	350V	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	10nF
C2356	ECKC1H103JB	CERAMIC	50V	10nF
C2360	ECKC1H103JB	CERAMIC	50V	10nF
C2361	ECA1CM471GB	ELECT	16V	470µF
C2362	ECA1CM471GB	ELECT	16V	470µF

Cct Ref	Parts Number	Description		
C2363	ECA1HM4R7GB	ELECT	50V	4.7µF
C2364	ECKC1H103JB	CERAMIC	50V	10nF
C2365	ECA1HMR33GB	ELECT	50V	10nF
C2366	ECKC1H103JB	CERAMIC	50V	10nF
C3001	ECKC1H561J	CERAMIC	50V	560pF
C3002	ECKC1H561J	CERAMIC	50V	560pF
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	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
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	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	470µF
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	560pF
C3174	ECUV1H561JCX	S.M. CAP	50V	560pF
C3178	ECUV1H561JCX	S.M. CAP	50V	560pF
C3180	ECA1HMR47GB	ELECT	50V	560pF
C3182	ECUV1H102JCX	S.M. CAP	50V	1nF
C3184	ECUV1H473KBX	S.M. CAP	50V	47nF
C3186	ECEA1HNR47UB	ELECT	50V	47nF
C3187	ECA1HM470GB	ELECT	50V	47µF
C3188	ECEA1CN470	ELECT	16V	47µF




Cct Ref	Parts Number	Description		
C3189	ECEA1CN470	ELECT	16V	47µF
C3190	ECA1HMR47GB	ELECT	50V	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
C3351	ECA1HM101GB	ELECT	50V	100µF
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	220nF
C3510	ECJ2VF1H103Z	ELECT	350V	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
C3810	ECUV1H103KBX	S.M. CAP	50V	10nF
C3812	ECA1CM221GB	ELECT	16V	220µF
TERMINALS AND LINKS				
JK3101	1364-21-21	SCART SOCKET		
JK3102	1364-21-21	SCART SOCKET		
JK3104	1364-21-21	SCART SOCKET		
JK3001	TJB16656	A.V. TERMINAL		
SWITCHES				
S801	ESB91232A	SWITCH		
S1051	EVQ23405R	SWITCH		
S1052	EVQ23405R	SWITCH		
S1053	EVQ23405R	SWITCH		
S1054	EVQ23405R	SWITCH		
S1055	EVQ23405R	SWITCH		



SCHEMATIC DIAGRAM FOR MODEL TX-W32D2 (EURO-3H 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.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000).
2. **CAPACITOR**
All capacitors are ceramic 50V capacitors, unless marked, the unit of capacitance is μ F unless otherwise stated.
3. **COIL**
Unit of inductance is μ H, unless otherwise stated.
4. **TEST POINT**
 Test Point Position
5. **EARTH SYMBOL**
 Chassis Earth (cold)
 Line Earth (Hot)
6. **VOLTAGE MEASUREMENT**
Voltage is measured by a DC voltmeter.
Measurement conditions are as follows:

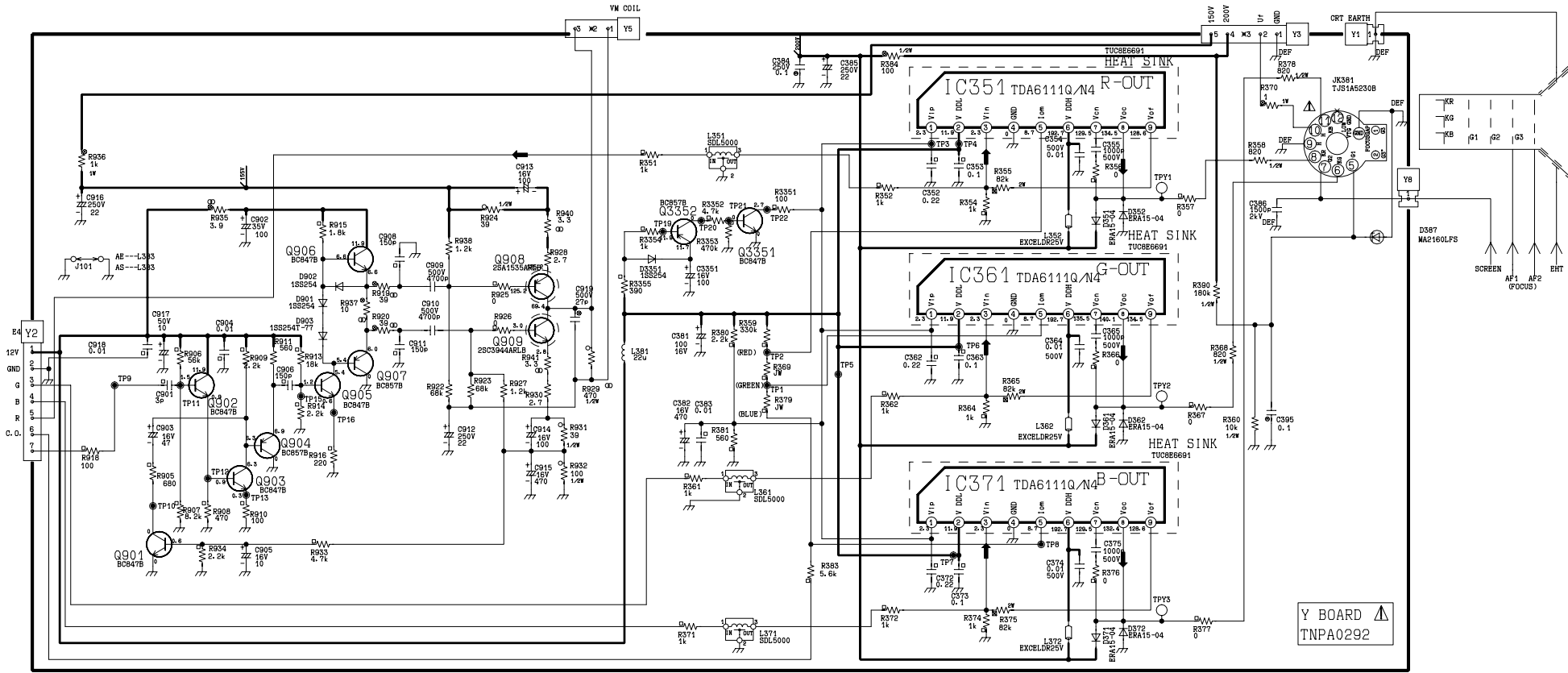
Power source	AC 220-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position
7.  Indicates the Video signal path
 Indicates the Audio signal path
8. These schematic diagrams are the latest at the time of printing and are subject to change without notice.

Precautions

- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short-circuit the hot and cold circuits as electrical components may be damaged.
- c. 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.
- d. Make sure to disconnect the power plug before removing the chassis.

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.



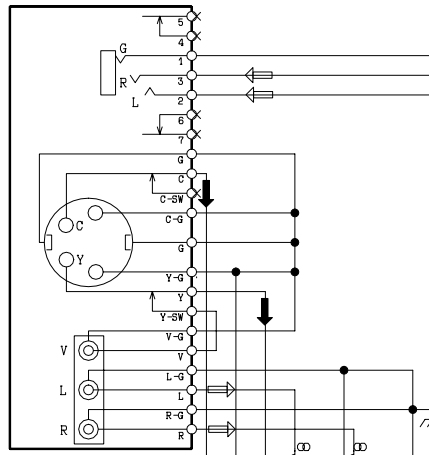
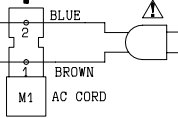
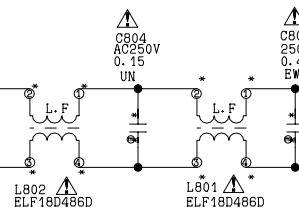
Y BOARD
 TNPA0292

M BOARD
TNPA0291

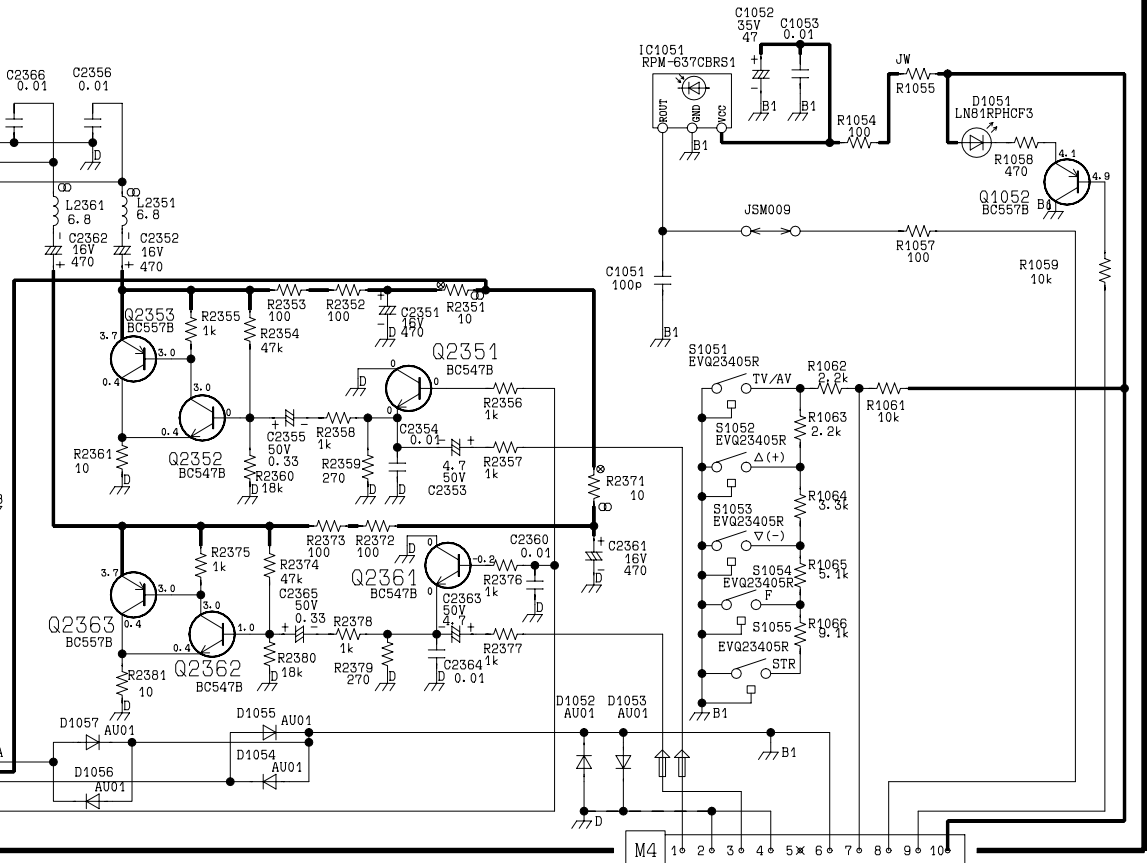
COLD

HOT

M2 1 2

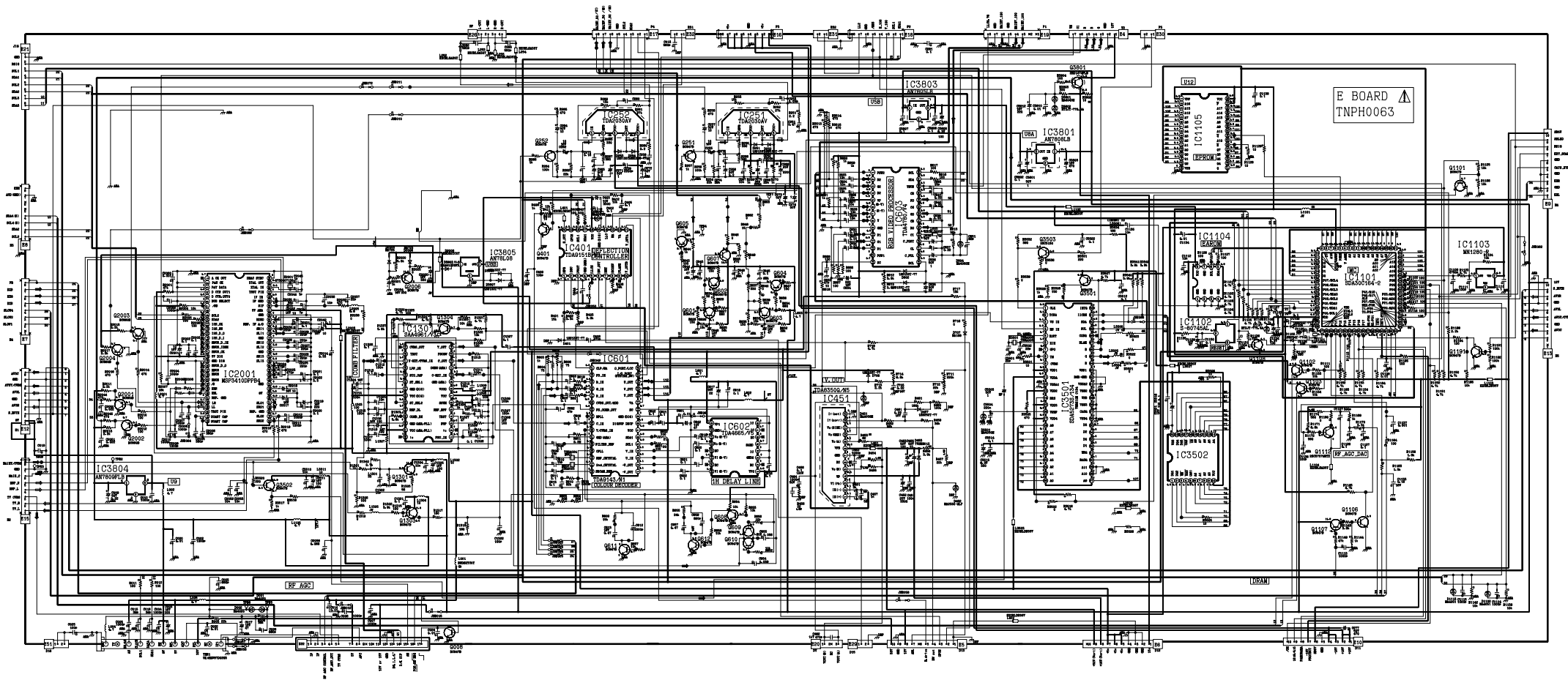


JK3001
TJB16656



M5 1x 2 3 4 5 6 7 8 9 10
E13 C-GND C GND Y L GND R SMUTE 10V

M4 1 2 3 4 5x 6 7 8 9 10
E9 KHL GND KH GND GND KEY_SCAN RSIG SB_LED SB_5V



E BOARD
TNPH0063

IC2001
MCP4100

IC3804
AT9301

IC3805
AT9301

IC601
TDA1915

IC602
TDA1915

IC451
TDA1915

IC3803
AT9301

IC3801
AT9301

IC1105
M1200

IC1104
M1200

IC3502
M1200

IC1103
M1200

BF 492

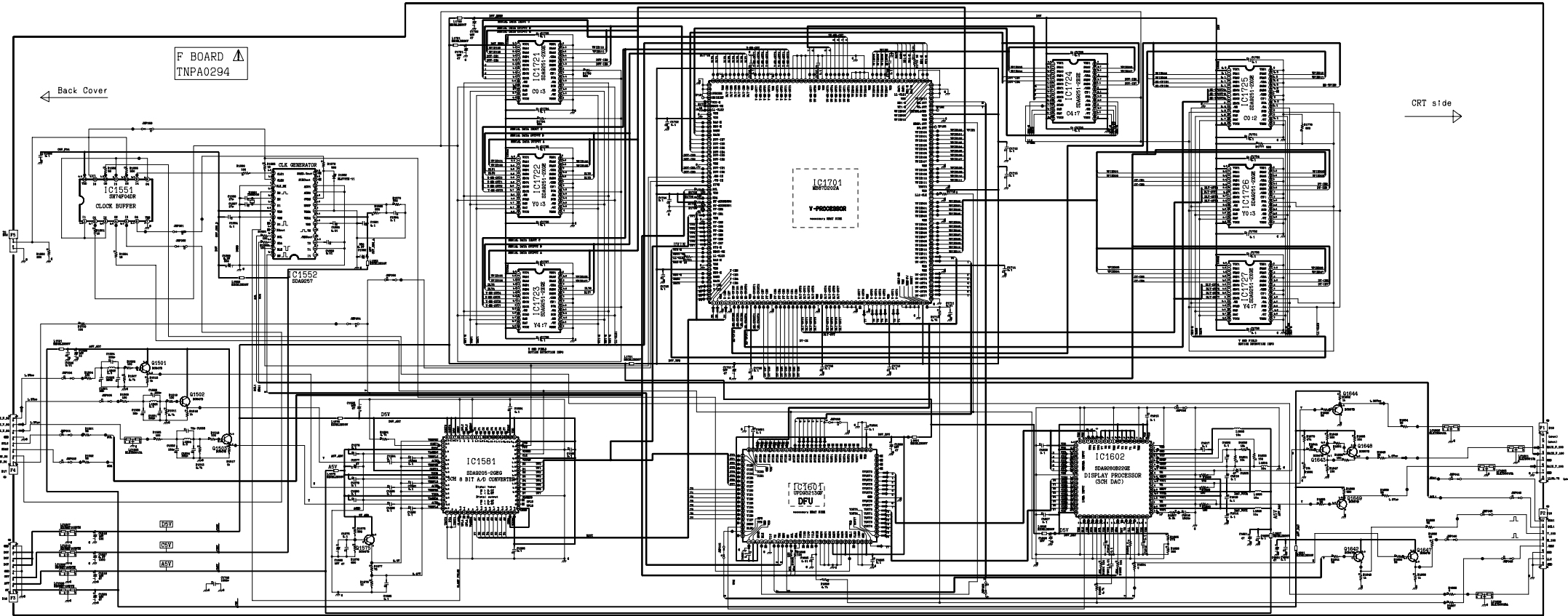
DRAM

ALL DIMENSIONS IN MILLIMETERS

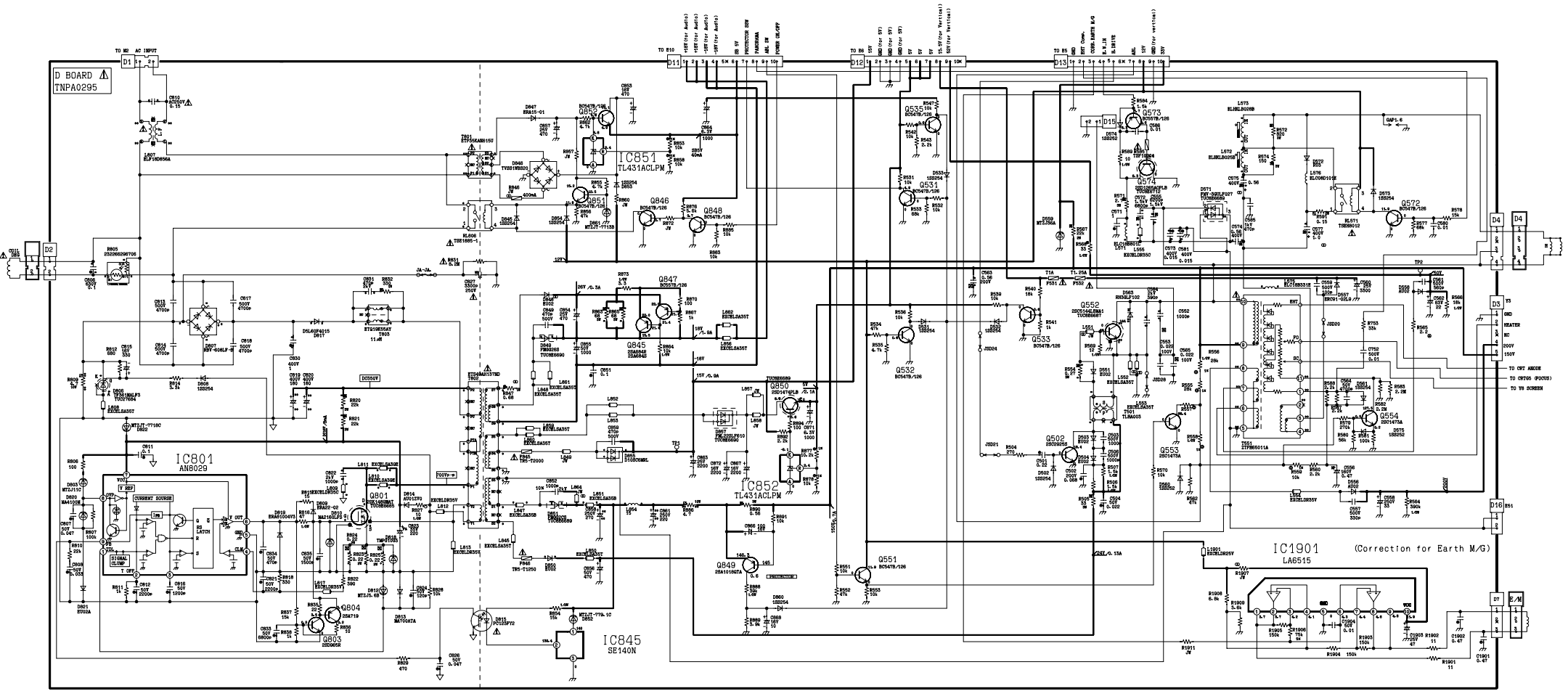
F BOARD
TNP A0294

Back Cover

CRT side



D BOARD
TNPA0295



IC845
SE140N

IC852
TL431ACLM

IC851
TL431ACLM

IC801
AN6029

IC1901
LA615
(Correction for Earth M/G)

D4

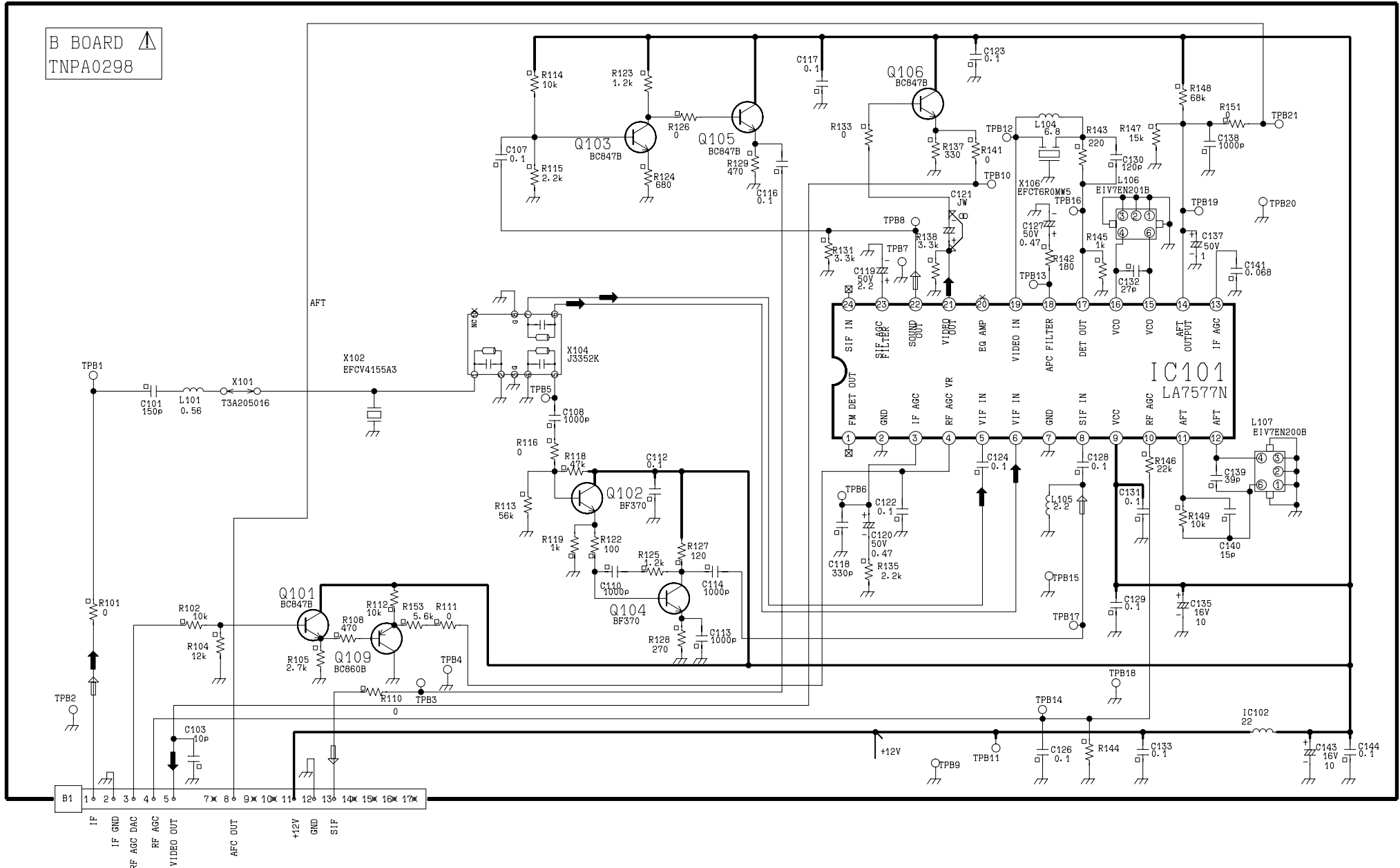
D5

D16

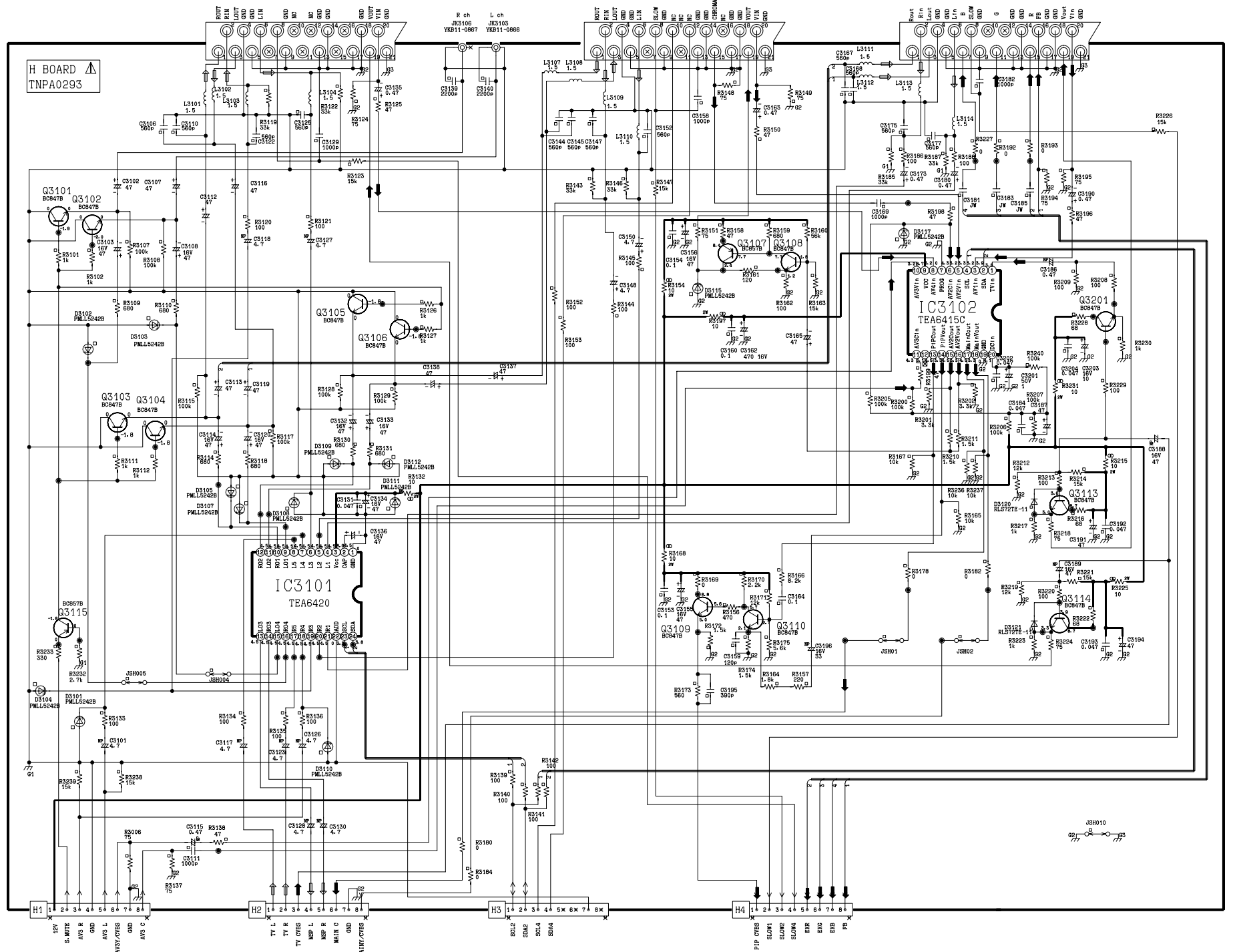
D7

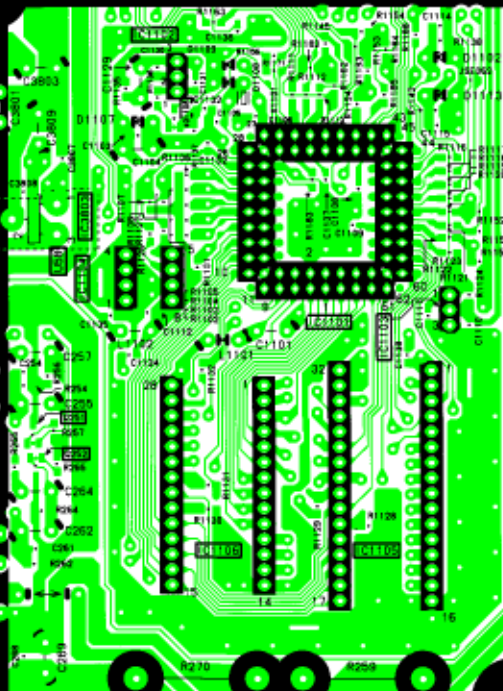
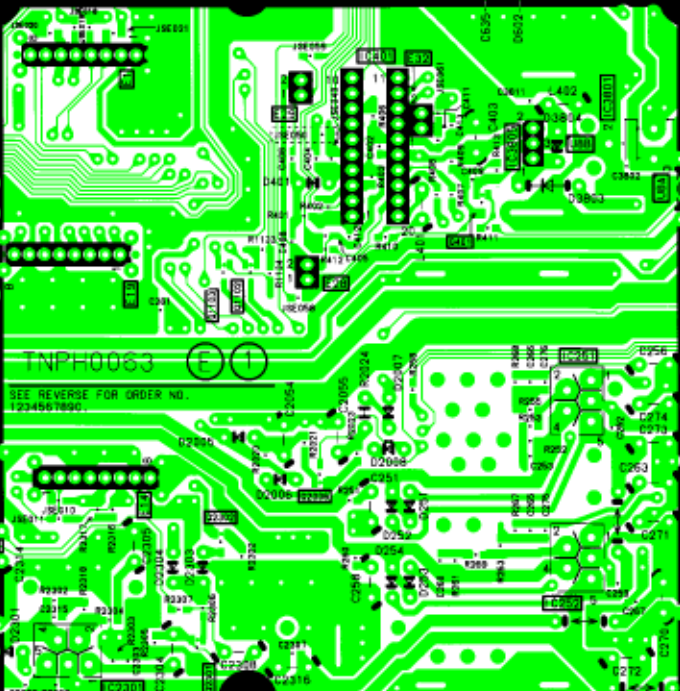
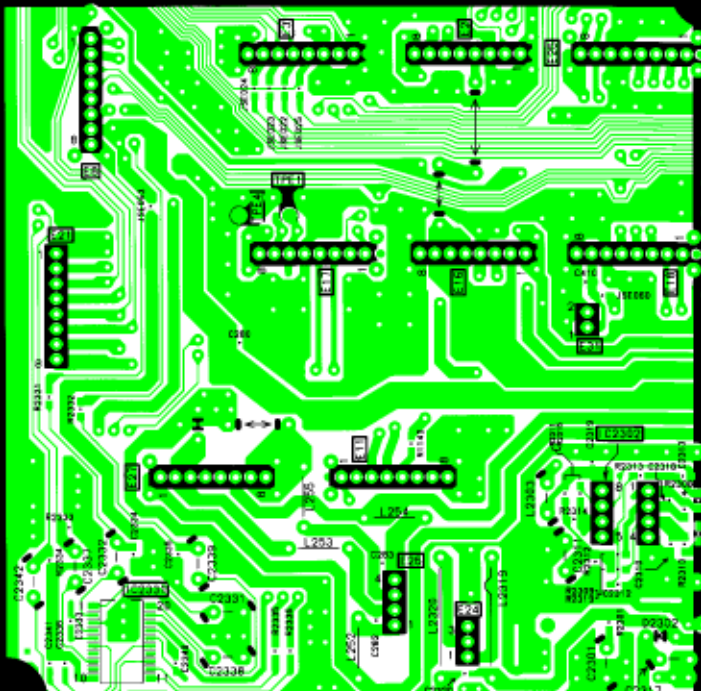
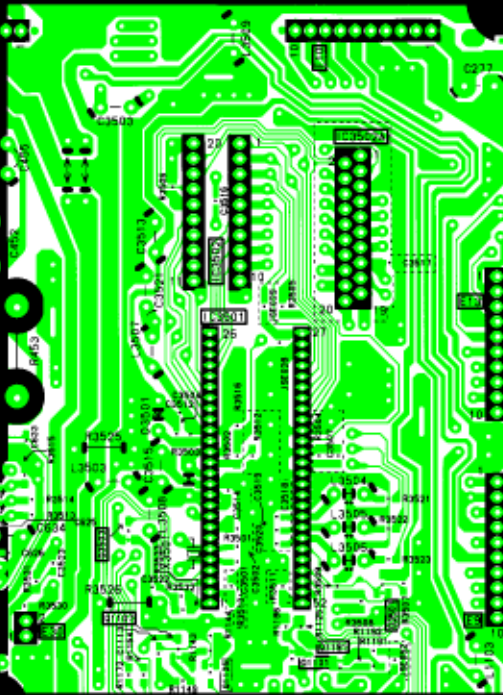
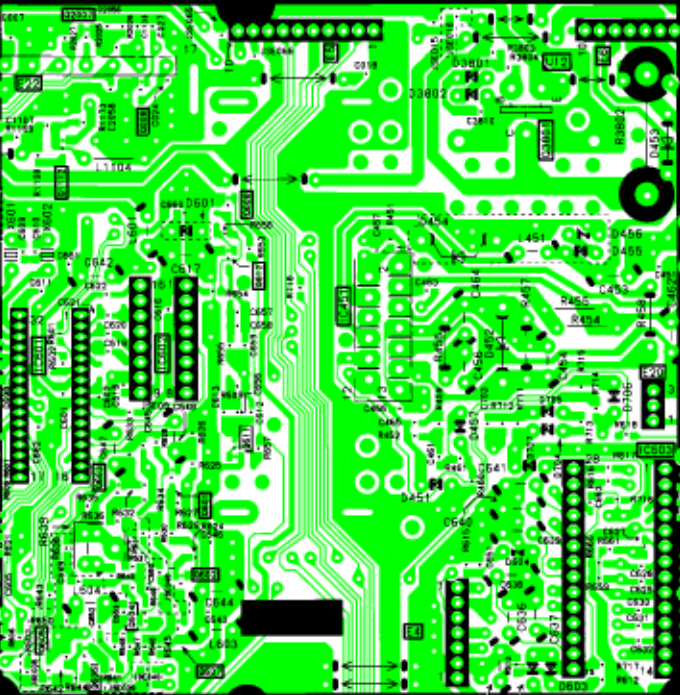
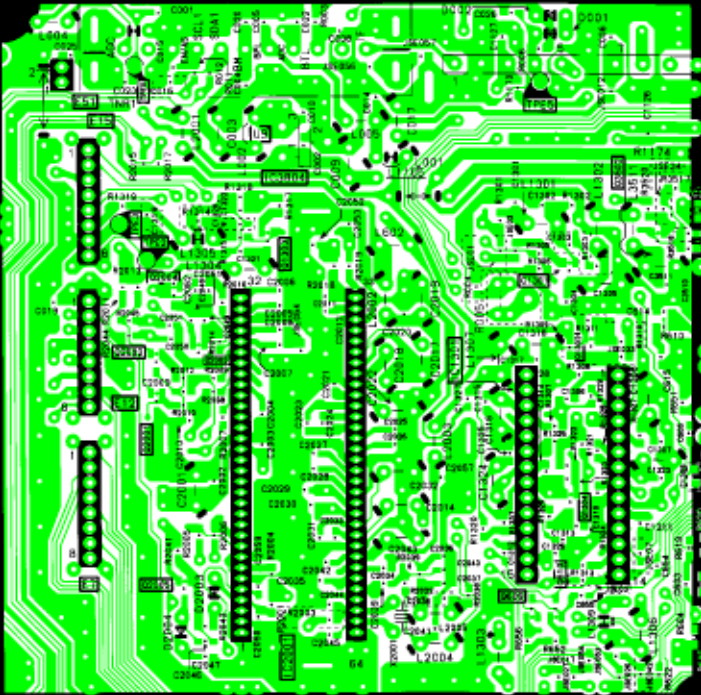
E/M

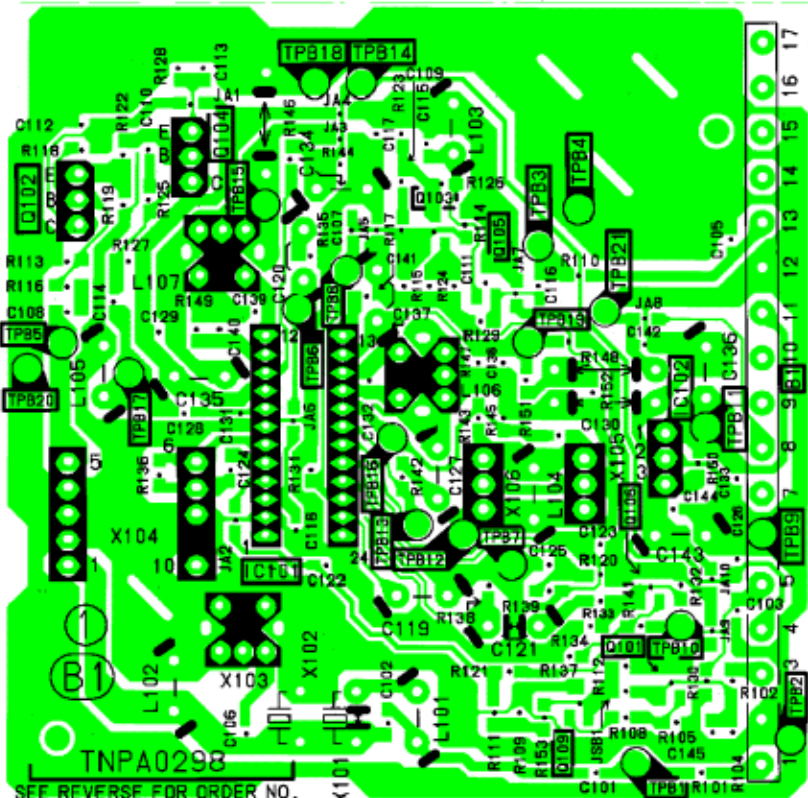
B BOARD 
 TNPA0298



H BOARD
TNP A0293



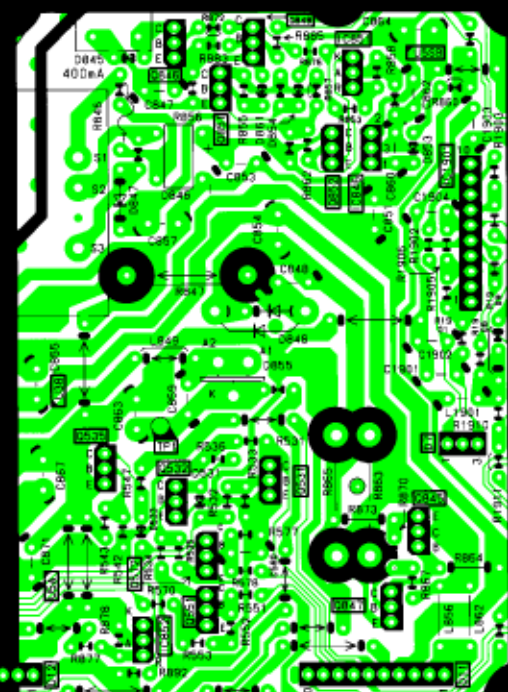
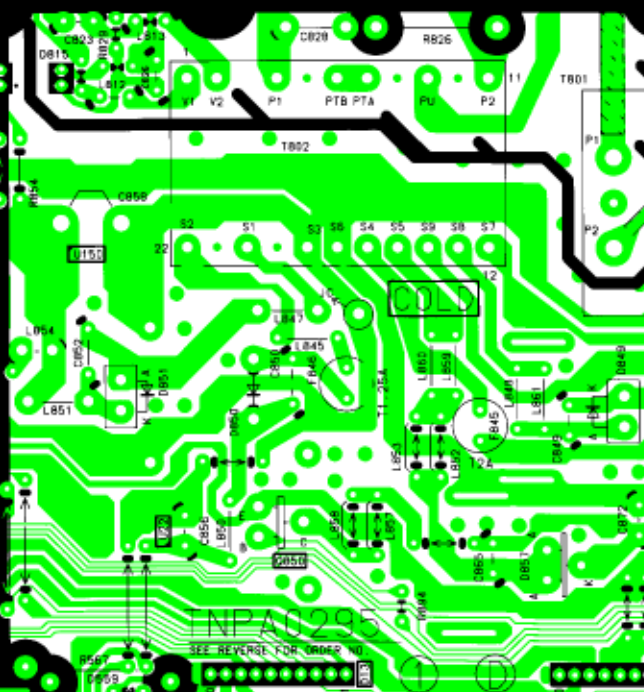
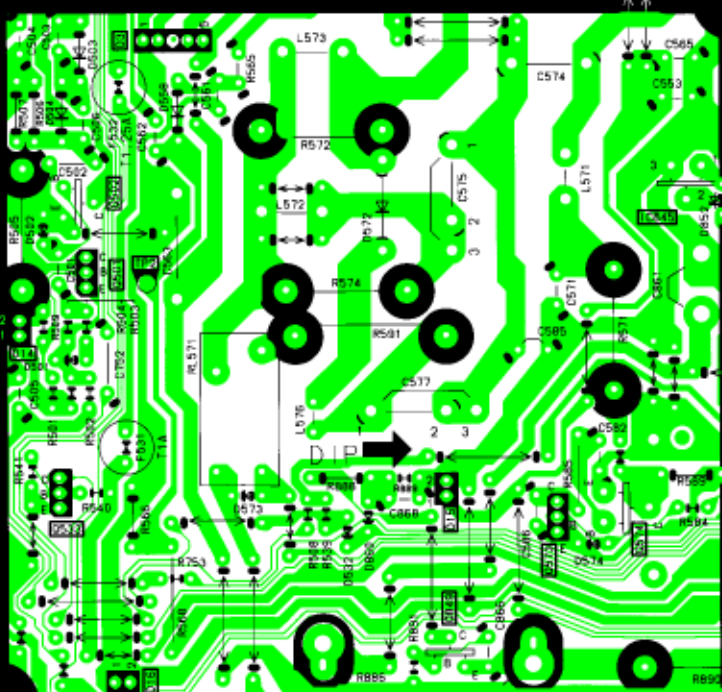
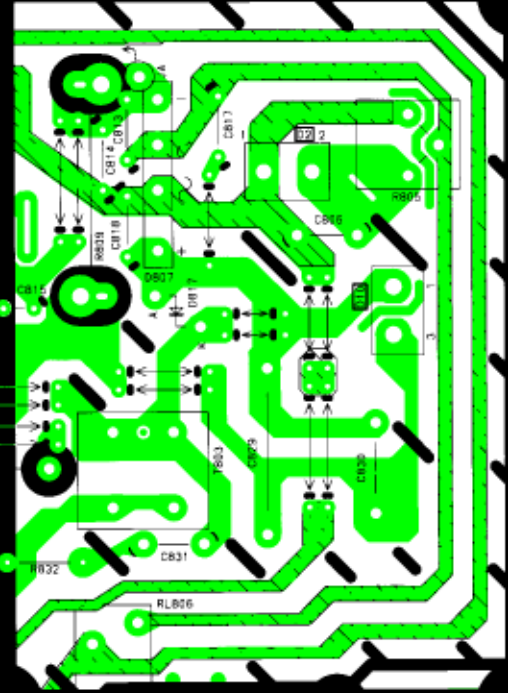
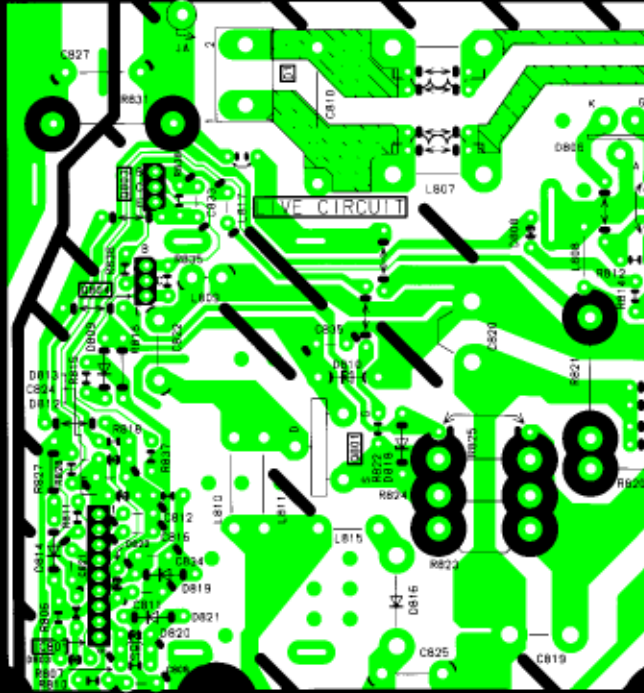
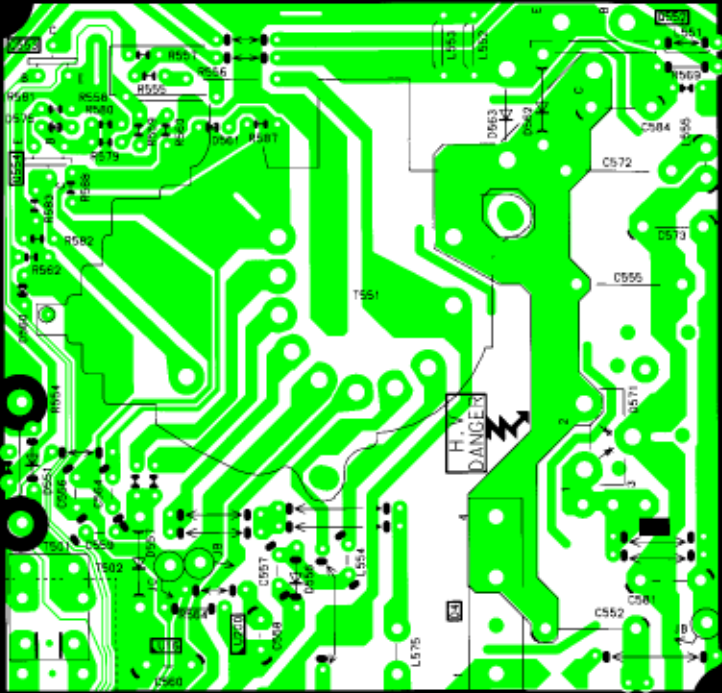


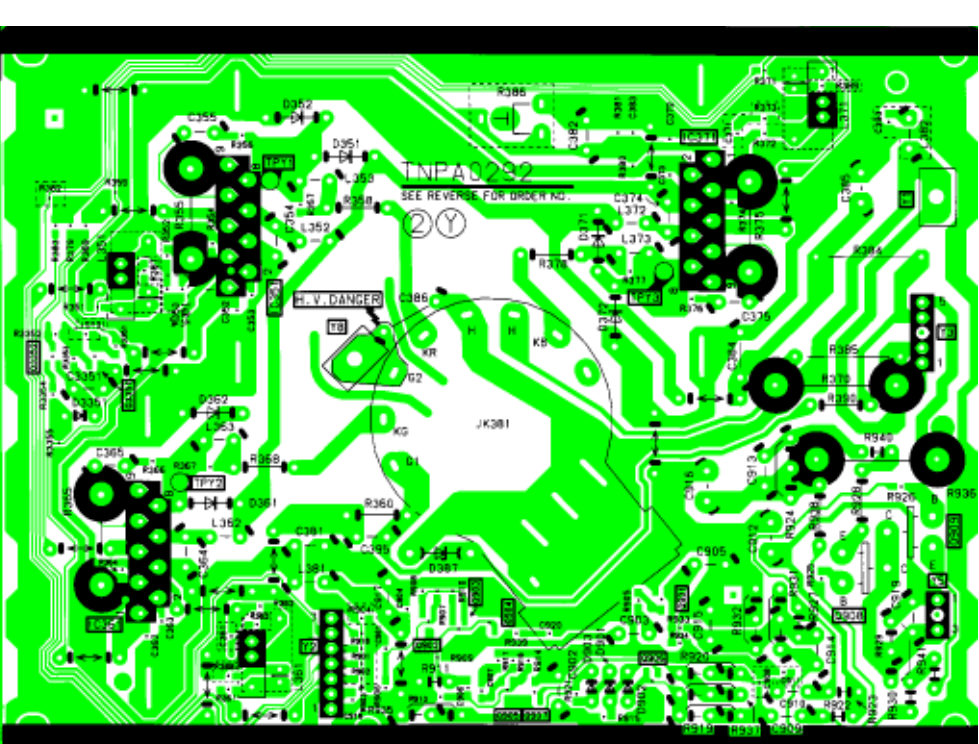


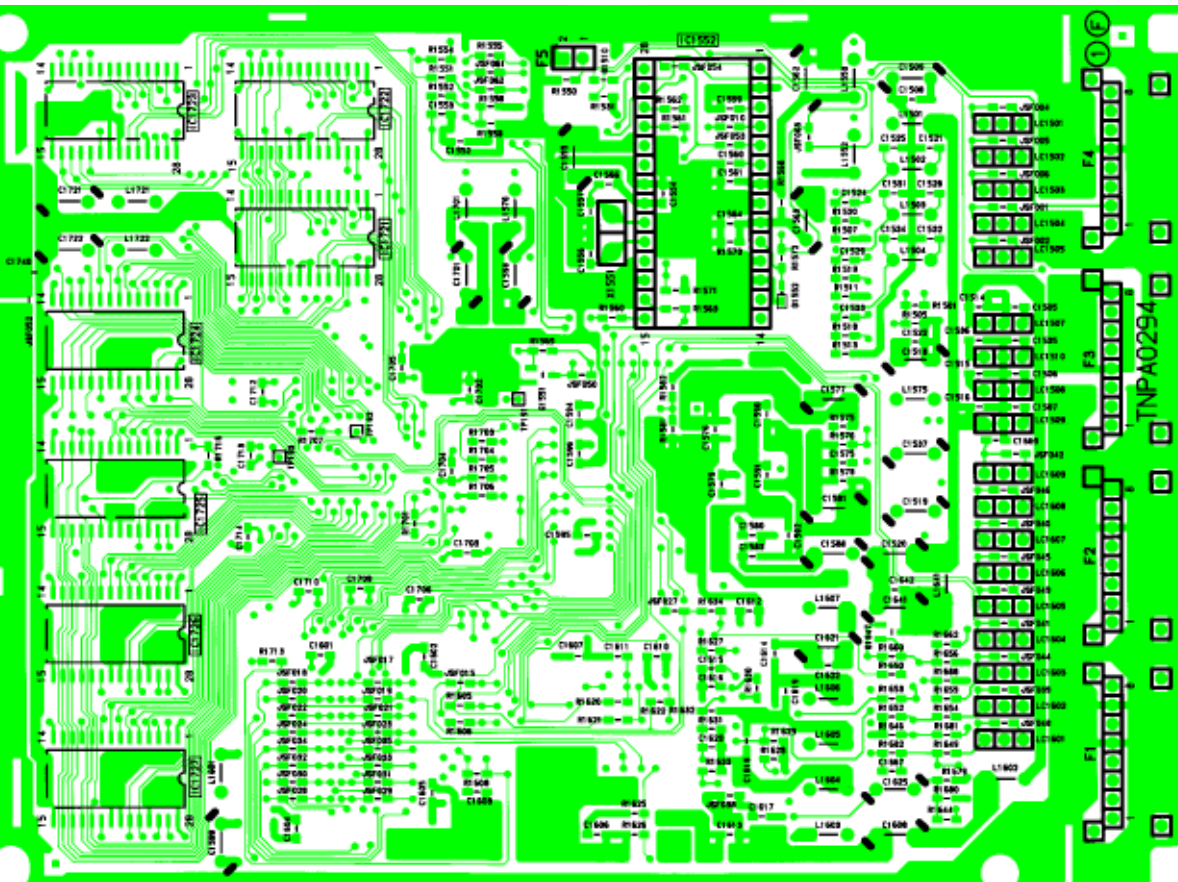
TNPA0298

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17







TNP0294

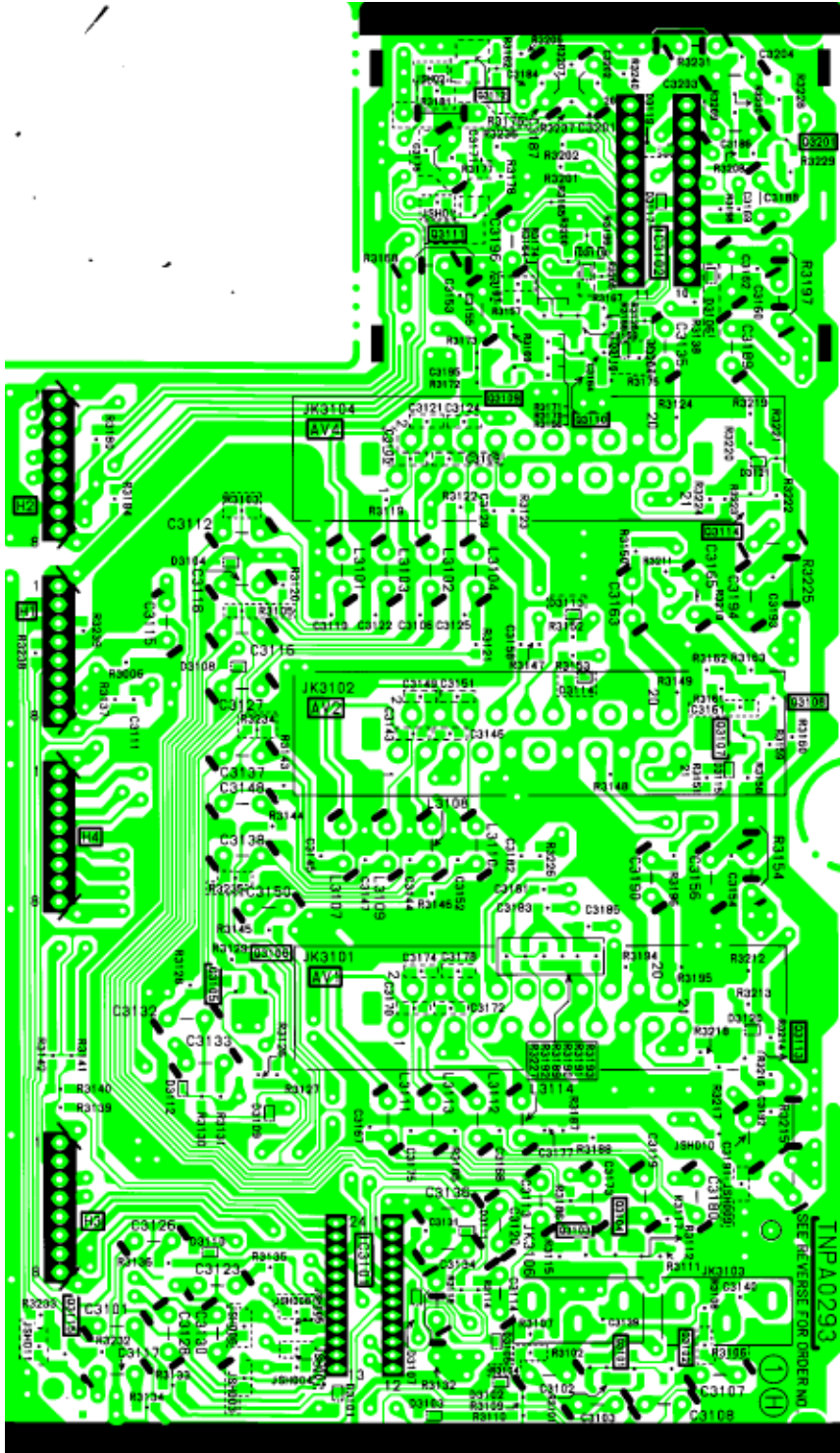
TNP0294

F1

F2

F3

F4



TNP A0293

SEE REVERSE FOR ORDER NO

NOTES

A large rectangular area with a solid black border and horizontal dashed lines, intended for writing notes. The dashed lines are evenly spaced and run across the width of the rectangle.

NOTES

A large rectangular area with a solid top and bottom border and horizontal dashed lines inside, intended for writing notes.