

TX-29/25AD50F/S Service Manual

Safety

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Service
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Adjustments

Self Check

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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

Video / Audio

Control



BACK

B2 - PCB

D - PCB

E - PCB

F - PCB

H - PCB

M2 - PCB

Y - PCB



BACK

B2 - Schematic

D - Schematic

E - Schematic

F - Schematic

H - Schematic

M2 - Schematic

Y - Schematic



BACK

Service Manual



Colour Television

TX-29AD50F/S TX-25AD50F/S

EURO-3 Chassis

Specifications

(Information in brackets { } refers to TX-25AD50F/S)

Power Source :	220 - 240 V AC, 50Hz
Power Consumption :	159W {149W}
Aerial Impedance :	75Ω unbalanced, Coaxial Type
Receiving System :	PAL B/G, D/K, I, H, PAL - 60 SECAM B/G, D/K, L/L' M.NTSC, NTSC (AV Only)
Receiving Channels :	VHF E2 - E12 VHF H1 - H2 (ITALY) VHF A - H (ITALY) VHF R1 - R2 VHF R3 - R5 VHF R6 - R12 UHF E21 - E69 CATV (S01 - S05) CATV S1 - S10 (M1 - M10) CATV S11 - S20 (U1 - U10) CATV S21 - S41 (HYPERBAND)
Intermediate Frequency :	Video 38.9MHz, 34MHz Sound 32.9MHz, 33.4MHz 33.16MHz, 32.4MHz 40.4MHz, 34.05MHz, 33.05MHz 34.65MHz, 34.47MHz, 34.5MHz
Colour	
Video / Audio Terminals :	
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 S-Video IN Y : 1V p-p 75Ω (21 pin) C : 0.3V p-p 75Ω
AV2 OUT	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
High Voltage :	30.5 kV ± 1 kV at zero beam current
Picture Tube :	A68ESF002X43 68 cm {A59ESF002X43 59 cm} 110° deflection
Audio Output :	
Internal Speaker	2 x 20W (Left/Right)(Music Power) 25W (3D Bass)(Music Power) 8 Ω Impedance
Headphones	8 Ω Impedance
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries
Dimensions :	
Height :	570mm {510mm}
Width :	698mm {625mm}
Depth :	483mm {468mm}
Net Weight :	37kg {31kg}

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

CONTENTS

- SAFETY PRECAUTIONS
- SERVICE HINTS
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- ADJUSTMENTS
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- WAVEFORM PATTERN TABLE
- BLOCK DIAGRAM
- PARTS LOCATION
- REPLACEMENT PARTS LIST
- CONDUCTOR VIEWS
- SCHEMATIC DIAGRAMS

Safety Precautions

General Guide Lines

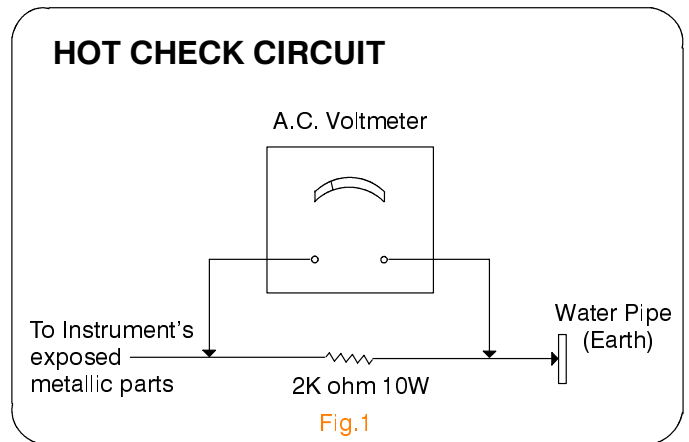
1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, 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.
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.

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 2k ohm 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 \pm 1 kV at zero beam current 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 an X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 9 screws (A) as shown in Fig.2/Fig.3.

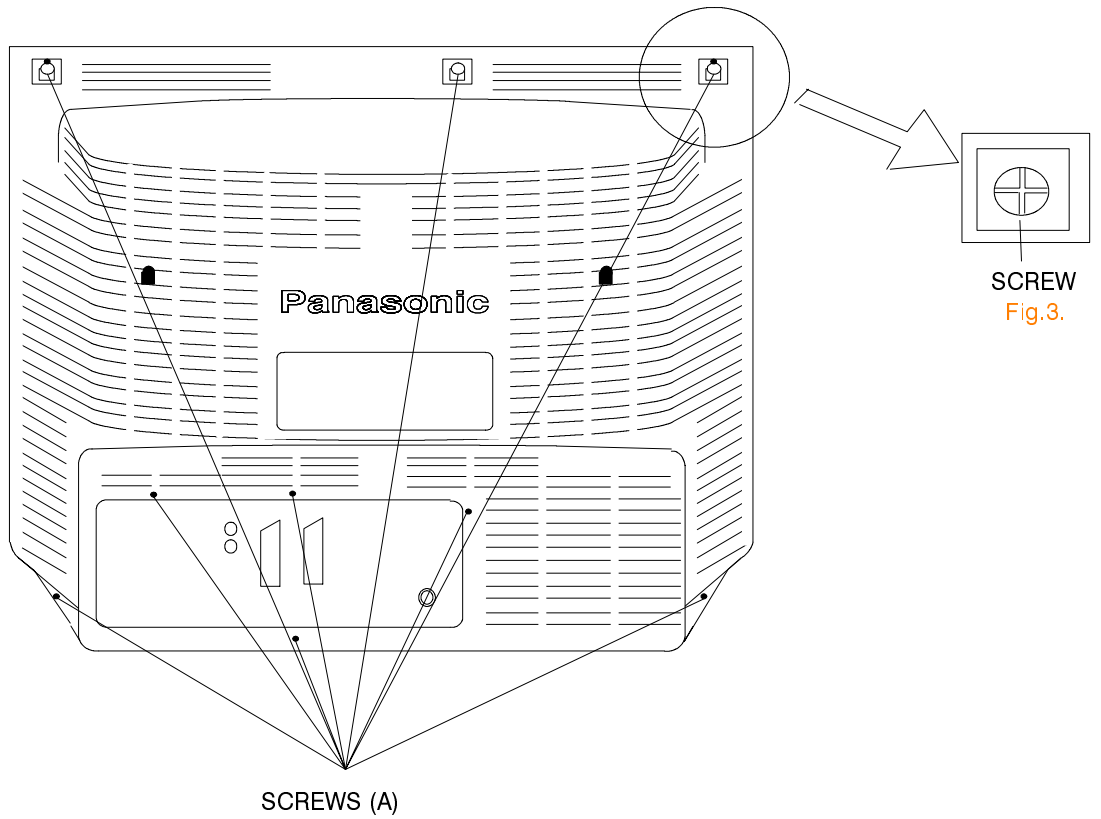


Fig.2.

LOCATION OF CONTROLS

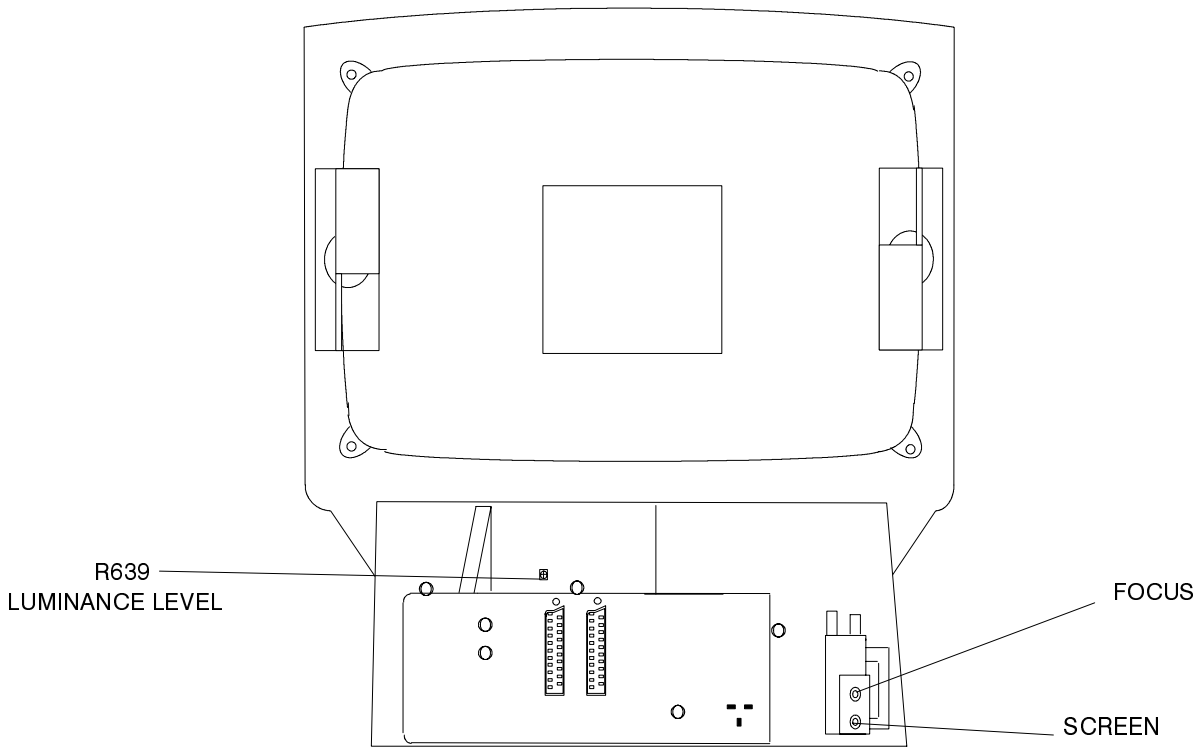


Fig.4.

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 minimum position, press and hold 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-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!

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)

Please Note

When aligning the TV, in Service Mode 1, please remember that separate alignments need to be performed in both PAL (50Hz) and NTSC (60Hz) systems for 4:3, and 16:9 aspect modes.

Alignment Function		Settings / Special features
Vertical amplitude	V-AMP 026	Optimum setting
Vertical linearity	V-LIN 022	
V-Pos.	V-POS 005	Optimum setting
Horizontal amplitude	H-AMP 045	Optimum setting
Horizontal position	H-POS 032	
EW-amplitude	E/W-AMP 1 063	Optimum setting
EW-amplitude	E/W-AMP 2 021	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	---	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																				
Supply Voltage Check 1. Receive a standard test pattern. 2. Set the controls: Brightness Minimum Contrast Minimum Volume Minimum	1. Confirm the following voltages. <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">E PCB</td> <td style="width: 50%; border: none;">D PCB</td> </tr> <tr> <td style="border: none;">U5B 5 ± 0.5V</td> <td style="border: none;">U5A 5.1 + 0.12/-0.1V</td> </tr> <tr> <td style="border: none;">U8 8 ± 0.5V</td> <td style="border: none;">U5SB 5 ± 0.25V</td> </tr> <tr> <td style="border: none;">U9 9 ± 0.5V</td> <td style="border: none;">U15 15 ± 0.7V</td> </tr> <tr> <td style="border: none;">U12 11.8 ±</td> <td style="border: none;">U16 18.2 ± 0.8V</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">U22 22.5 ± 1V</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">U38 19 ± 1V</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">U47 45.7 ± 2.5V</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">U150 150 ± 1V</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">U200 204 ± 10V</td> </tr> </table>	E PCB	D PCB	U5B 5 ± 0.5V	U5A 5.1 + 0.12/-0.1V	U8 8 ± 0.5V	U5SB 5 ± 0.25V	U9 9 ± 0.5V	U15 15 ± 0.7V	U12 11.8 ±	U16 18.2 ± 0.8V		U22 22.5 ± 1V		U38 19 ± 1V		U47 45.7 ± 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 and hold 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: -

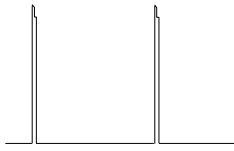
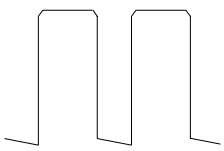
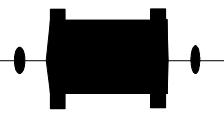
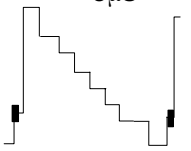
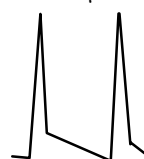
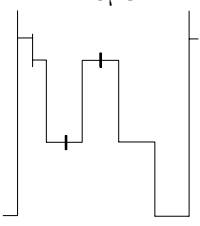
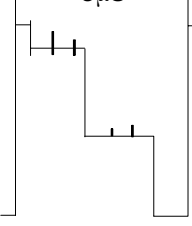
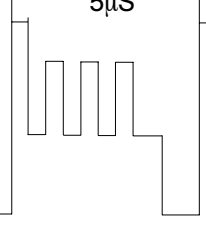
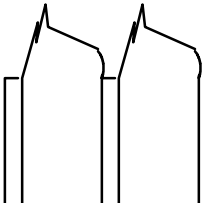
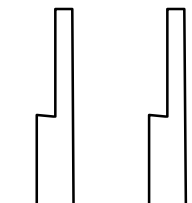
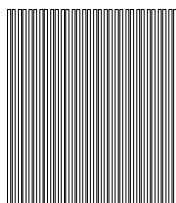
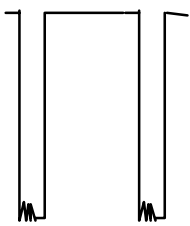
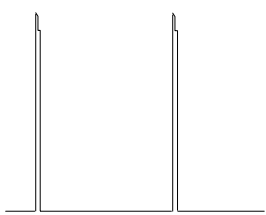
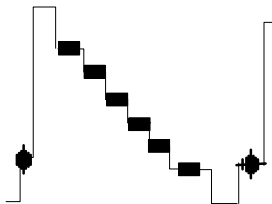
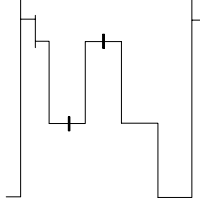
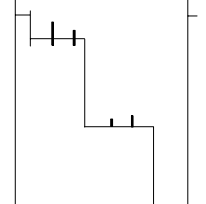
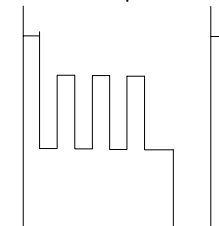
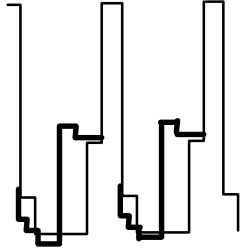
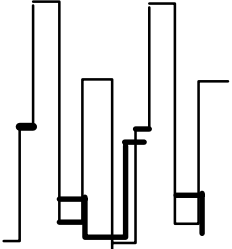
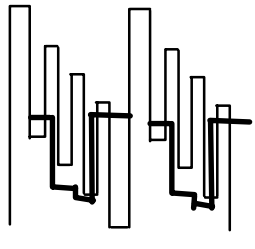
0 — ok	Test Byte	8 — ok	Col Decoder (M)	16 — --	Col Decoder (P)
1 — ok	Lst Power	9 — ok	Clock generator	17 — --	Q —
2 — ok	U5 Det	10 — ok	V — Processor	18 — ok	PIP Not Used
3 — ok	Protector	11 — ok	DFU	19 — ok	Not Used
4 — ok	Not Used	12 — ok	Display Processor	20 — ok	EARAM
5 — ok	Not Used	13 — ok	RGB 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	Tun-er

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

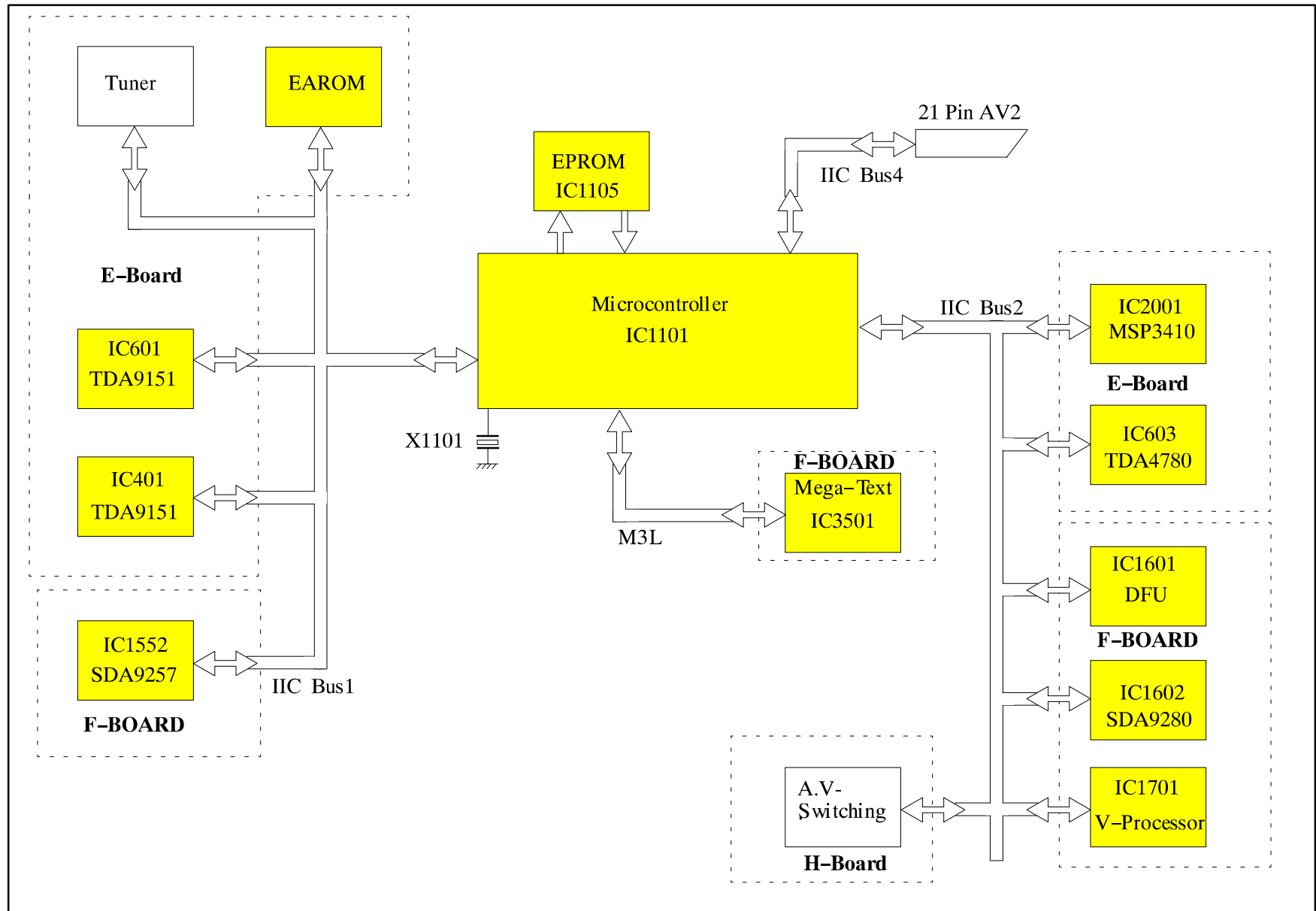
Hex codes

09
73
E6
1F
BB
BF
03

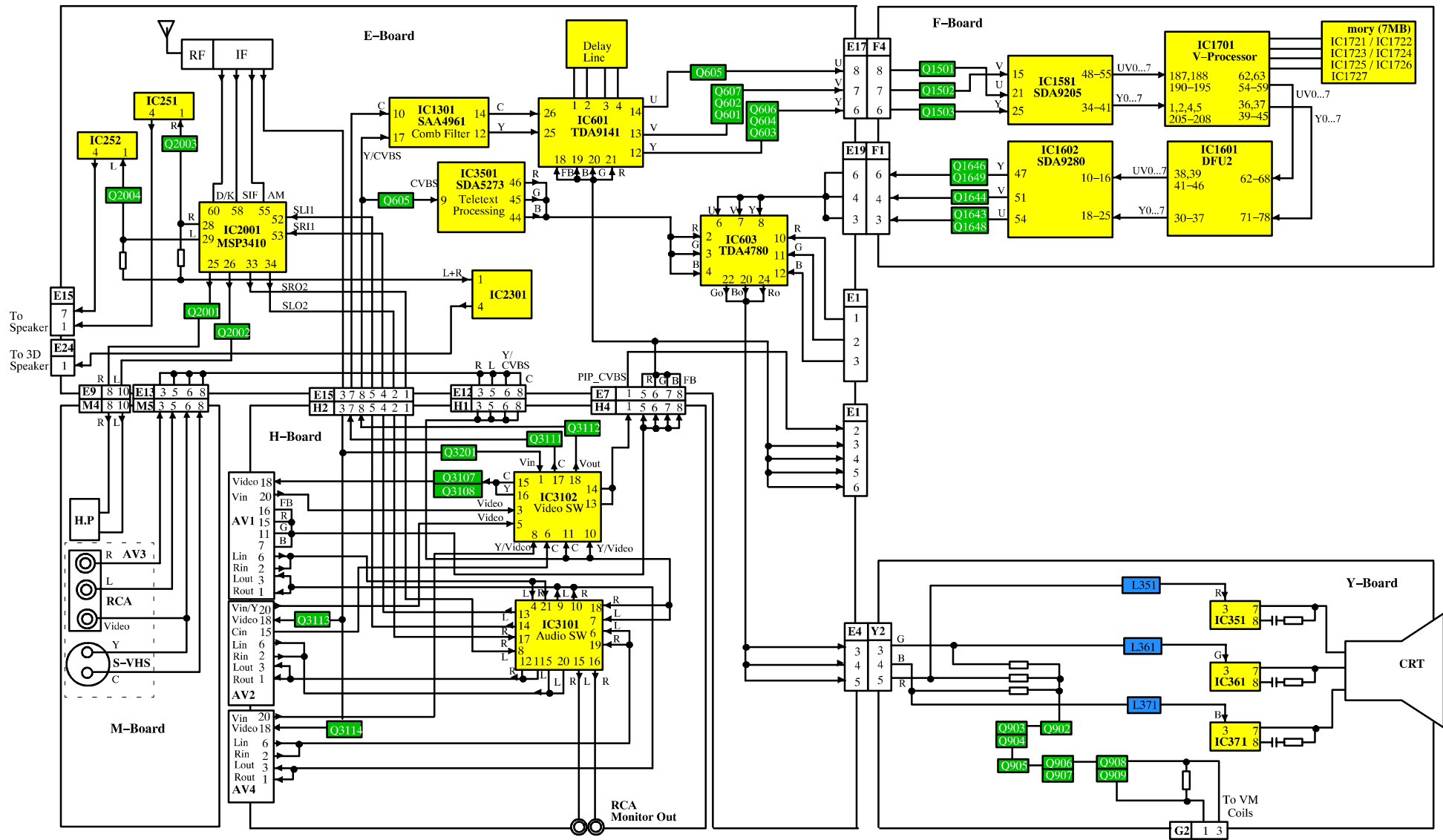
WAVEFORM PATTERN TABLE

<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

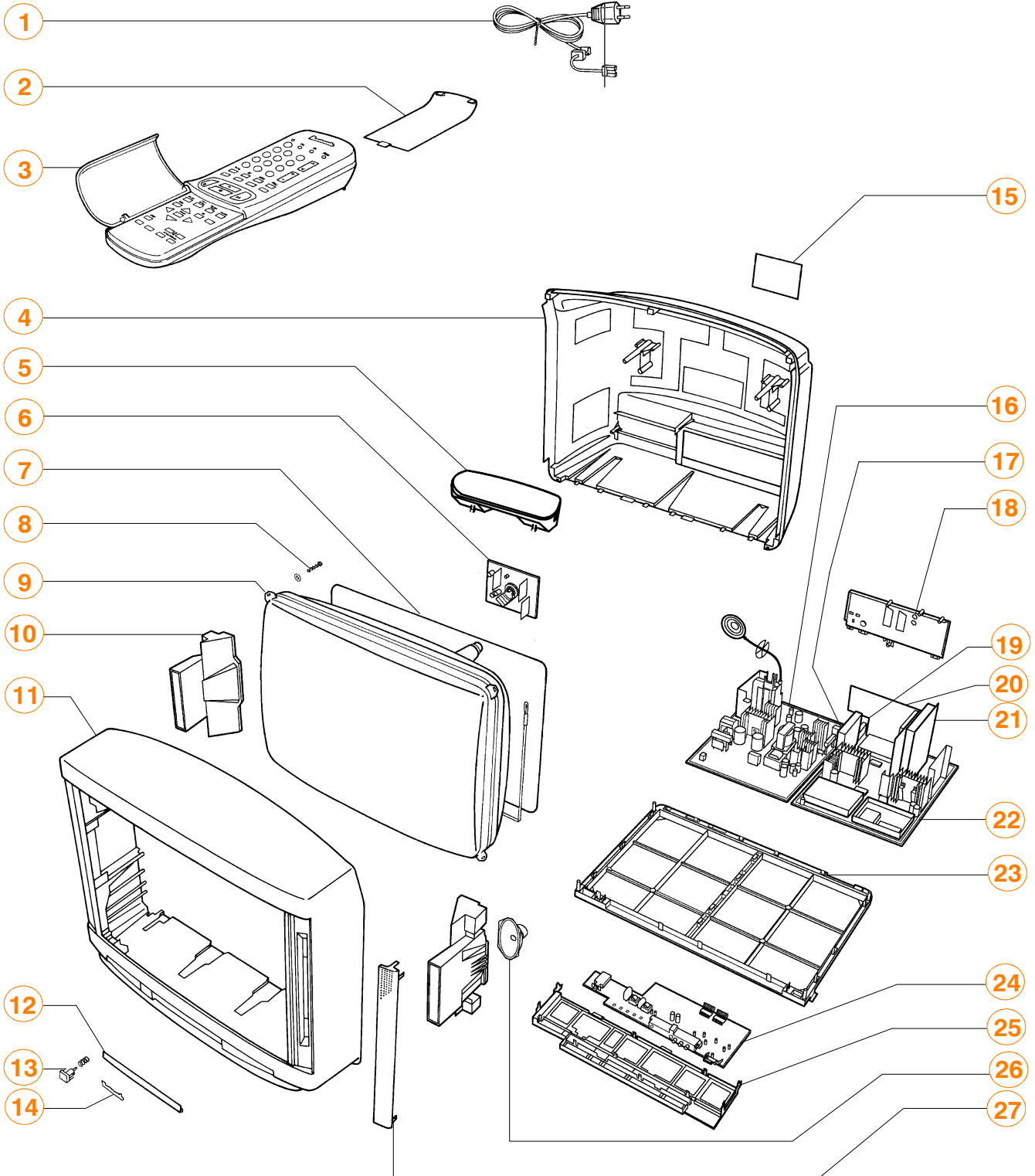


VIDEO AND AUDIO SIGNAL PROCESSING BLOCK DIAGRAM




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

Ref No.	Part No.	Description	
MISCELLANEOUS COMPONENTS			
1)	TSX8E0020	POWER CORD	
2)	UR51EC780	BATTERY COVER (REMOTE)	
3)	EUR51923	REMOTE CONTROL	
4)	*****	REFER TO DIFFERENCE LIST	
5)	EAB10102B2	LOUDSPEAKER	
6)	TNPA0292AC	Y P.C.B.	
7)	*****	REFER TO DIFFERENCE LIST	
8)	*****	REFER TO DIFFERENCE LIST	
9)	*****	REFER TO DIFFERENCE LIST	
10)	TKK8E026	SPEAKER REFLECTOR	
11)	*****	REFER TO DIFFERENCE LIST	
12)	TKP8E1149	LID	
13)	TBX8E033	POWER BUTTON	
14)	*****	REFER TO DIFFERENCE LIST	
15)	*****	REFER TO DIFFERENCE LIST	
16)	*****	REFER TO DIFFERENCE LIST	
17)	TNPA0317AA	B P.C.B.	
18)	TKP8E1154	AV COVER	
19)	ENV57D03G3	TUNER	
20)	TNPA0293AB	H P.C.B.	
21)	TNPA0294AA	F P.C.B.	
22)	*****	REFER TO DIFFERENCE LIST	
23)	TMX8E014-1	CHASSIS FRAME	
24)	TNPA0348AA	M P.C.B.	
25)	TMW8E023	CONTROL BRACKET	
26)	EAGG1218E2	SPEAKER	
27)	*****	REFER TO DIFFERENCE LIST	
	TEK6940	LID CATCHER	
	TKP8E1150	FRONT PANEL LEFT	
	TKP8E1161	FRONT PANEL RIGHT	
	TMW8E017	L.E.D.HOLDER	
	TMX8E015	PCB SUPPORT BRACKET	
	TBM8E1532-2	PRESET PANEL	
	TPD8E562	CUSHION	
	TQB8E2304L	RUSSIAN INST BOOK	
	TQB8E2304M	BULGARIAN INST BOOK	
	TQB8E2304U	ENGLISH INST BOOK	
	UM-3DEP-2P	BATTERY	
	31221212478	FIX CLIP	
	TES4537	SPRING	
	TES4537	SPRING	
	TES4537	SPRING	
	F9-4-220	RELAY	
	TES4537	SPRING	
	832AG11D-ESL	I.C.SOCKET	
	PCS-068A-1	68 PIN I.C.SOCKET	
	ERC12GK825	SOLID 0.5W 10% 8M2Ω	

Ref No.	Part No.	Description		
INTEGRATED CIRCUITS				
IC101	TDA9814TV3	VIF		
IC251	TDA2030AV	AUDIO AMPLIFIER		
IC252	TDA2030AV	AUDIO AMPLIFIER		
IC351	TDA6111	RGB OUTPUT		
IC361	TDA6111	RGB OUTPUT		
IC371	TDA6111	RGB OUTPUT		
IC401	TDA9151-B	DEFLECTION CONTROL		
IC451	TDA8350Q/N5	VERTICAL OUTPUT		
IC601	TDA9143-N1	COLOUR DECODER		
IC602	TDA4665-V4	DELAY LINE		
IC603	TDA4780	RGB VIDEO PROCESSOR		
IC845	SE140N	ERROR AMPLIFIER		
IC851	TL431ACLPM	COIL		
IC852	TL431ACLPM	COIL		
IC1051	RPM-637CBRS1	LED RECEIVER		
IC1101	SDA30C164-2	MICRO PROCESSOR		
IC1102	S-80745AL-Z	RESET		
IC1103	MN1280R	RESET		
IC1301	SAA4961	COMB FILTER		
IC1551	SN74F04DR	CLOCK		
IC1552	SDA9257	CLOCK GENERATOR		
IC1581	SDA9205-2GEG	A/D CONVERTER		
IC1601	UPD93213GF	DFU		
IC1602	SDA9280GEG	VISUAL 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		
IC2001	MSP3410BPPF7	AUDIO PROCESSOR		
IC2301	TDA2030AV	AUDIO AMPLIFIER		
IC2302	BA15218	DIODE		
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		
CAPACITORS				
C002	ECUV1H102JCX	S.M.CAP	50V	1nF
C003	ECA1HM101GB	ELECT	50V	100pF
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	0.22μF
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	47μF
C019	ECUV1H561JCX	S.M.CAP	50V	560pF
C020	ECUV1H103ZFX	S.M.CAP	50V	10nF
C022	ECUV1H103ZFX	S.M.CAP	50V	10nF

Ref No.	Part No.	Description		
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
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	10µF
C120	ECEA1HKA2R2	ELECT	50V	2.2µF
C121	ECEA1HKA2R2	ELECT	50V	2.2µF
C122	ECUV1C105ZFX	S.M.CAP	16V	1000nF
C123	ECEA1HKA2R2	ELECT	50V	2.2µF
C124	ECUV1H471JCX	S.M.CAP	50V	470pF
C125	ECUV1H104ZFX	S.M.CAP	50V	100nF
C126	ECUV1H104ZFX	S.M.CAP	50V	100nF
C127	ECEA1CKA100	ELECT	16V	10µF
C128	ECUV1H102KBX	S.M.CAP	50V	1nF
C129	ECEA1CKA100	ELECT	16V	10µF
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	10µF
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	10µF
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
C254	ECUV1H393KBX	S.M.CAP	50V	39nF
C255	ECEA1CN100	ELECT	16V	10µF
C256	ECA1HM330B	ELECT	50V	33pF
C257	ECA1HM100GB	ELECT	50V	10pF
C258	ECQM1H474J	FILM	50V	470nF
C259	ECUV1H222JCX	S.M.CAP	50V	2.2nF
C261	ECUV1H393KBX	S.M.CAP	50V	39nF
C262	ECEA1CN100	ELECT	16V	10µF
C263	ECA1HM330B	ELECT	50V	33pF
C264	ECA1HM100GB	ELECT	50V	10pF
C267	ECUV1H103ZFX	S.M.CAP	50V	10nF
C268	ECUV1H223ZFX	S.M.CAP	50V	22nF
C269	ECA1EM222GB	ELECT	25V	2.2nF
C270	ECA1EM222GB	ELECT	25V	2.2nF
C271	ECA1HM010GB	ELECT	50V	1pF
C272	ECA1HM010GB	ELECT	50V	1pF
C273	ECA1HM010GB	ELECT	50V	1pF
C274	ECA1HM010GB	ELECT	50V	1pF
C275	ECUV1C184KBX	S.M.CAP	16V	0.18µF
C276	ECUV1C184KBX	S.M.CAP	16V	0.18µF
C277	ECEA1HU471	ELECT	50V	470µF
C280	ECUV1H562KBX	S.M.CAP	50V	5.6nF
C281	ECUV1H561JCX	S.M.CAP	50V	560pF

Ref No.	Part No.	Description			
C282	ECUV1H561JCX	S.M.CAP	50V	560pF	
C283	ECUV1H561JCX	S.M.CAP	50V	560pF	
C352	ECUV1H224ZFX	S.M.CAP	50V	0.22µF	
C353	ECUV1H103KBX	S.M.CAP	50V	10nF	
C354	ECKC2H103J	CERAMIC	50V	10nF	▲
C355	ECKC2H102J	CERAMIC	500V	1nF	▲
C362	ECUV1H224ZFX	S.M.CAP	50V	0.22µF	
C363	ECUV1H103KBX	S.M.CAP	50V	10nF	
C364	ECKC2H103J	CERAMIC	50V	10nF	▲
C365	ECKC2H102J	CERAMIC	500V	1nF	▲
C372	ECUV1H224ZFX	S.M.CAP	50V	0.22µF	
C373	ECUV1H103KBX	S.M.CAP	50V	10nF	
C374	ECKC2H103J	CERAMIC	50V	10nF	▲
C375	ECKC2H102J	CERAMIC	500V	1nF	▲
C381	ECA1HM101GB	ELECT	50V	100pF	
C382	ECA0JM471GB	ELECT	6.3V	470pF	
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	3.3nF	
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	3.3nF	
C453	ECEA1HU101	ELECT	50V	100µF	
C455	ECEA1HN100	ELECT	50V	10µF	
C456	ECQV1104JZ3	FILM	100V	100nF	
C457	ECUV1H102JCX	S.M.CAP	50V	1nF	
C462	ECKC3A471J	CERAMIC	1KV	470pF	▲
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	▲
C504	ECQB1H223K	FILM	50V	22nF	
C506	ECKC2H102J	CERAMIC	500V	1nF	▲
C552	TAC4R6T392JC	CERAMIC	1500V	3.9nF	
C553	ECQP1104JZW	FILM	100V	0.10µF	
C555	TAC4R6T472JC	CERAMIC	1500V	4.7nF	
C556	ECEA2CNR47SB	ELECT	160V	R47µF	
C557	ECKC2H331J	CERAMIC	500V	330pF	▲
C558	ECA2EM330B	ELECT	250V	33pF	
C559	ECKC2H101J	CERAMIC	500V	100pF	▲
C560	ECA1EM332E	ELECT	25V	3.3nF	
C561	ECKC2H561J	CERAMIC	500V	560pF	▲
C562	ECA1JM220B	ELECT	63V	22pF	
C563	TAC7A2D564JC	CERAMIC	200V	0.56µF	
C564	ECKC1H472J	CERAMIC	50V	4.7nF	
C565	ECQP1823JZW	FILM	100V	82nF	
C571	ECQV1H105JZ	FILM	50V	1µF	
C572	TAC4R6T472JC	CERAMIC	1500V	4.7nF	
C573	ECQF4153JZH	FILM	400V	15nF	
C574	TAC1114Z684A	CERAMIC	400V	0.68µF	
C575	TAC1114Z684A	CERAMIC	400V	0.68µF	
C581	ECQF4123JZH	FILM	400V	12nF	
C584	ECKC3D221JB	CERAMIC	2.0KV	220pF	
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	

Ref No.	Part No.	Description		
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	0.47µF
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	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
C631	ECUV1H103ZFX	S.M.CAP	50V	10nF
C632	ECUV1H103ZFX	S.M.CAP	50V	10nF
C633	ECUV1H470JCX	S.M.CAP	50V	47pF
C634	ECA1AM221GB	ELECT	10V	220pF
C635	ECA1HM220GB	ELECT	50V	22pF
C636	ECA1HM010GB	ELECT	50V	1pF
C637	ECQM1H224J	FILM	50V	220nF
C638	ECA1HM010GB	ELECT	50V	1pF
C639	ECQM1H224J	FILM	50V	220nF
C640	ECQM1H224J	FILM	50V	220nF
C641	ECQM1H224J	FILM	50V	220nF
C642	ECA1AM470GB	ELECT	10V	47pF
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	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
C703	ECUV1C224KBX	S.M.CAP	16V	220nF
C752	ECKC2H103J	CERAMIC	50V	10nF
C803	ECQE2A474MWB	FILM	100V	0.47µF
C804	222233510154	CAPACITOR		0.15µF
C806	ECQE6104K	FILM	600V	100nF
C807	ECQB1H473K	FILM	50V	47nF
C808	ECQB1H333J	FILM	50V	33nF
C810	222233510154	CAPACITOR		0.15µF
C811	ECQB1H104J	FILM	50V	100nF
C812	ECQB1H222J	FILM	50V	2200pF
C813	ECKC2H472J	CERAMIC	500V	4.7nF
C814	ECKC2H472J	CERAMIC	500V	4.7nF
C815	ECA1CM331B	ELECT	16V	330pF
C816	ECQB1H122J	FILM	50V	1.2nF
C817	ECKC2H472J	CERAMIC	500V	4.7nF
C818	ECKC2H472J	CERAMIC	500V	4.7nF
C819	ECOS2GA181DB	ELECT	400V	180pF
C820	ECOS2GA181DB	ELECT	400V	180pF
C821	ECQB1H222J	FILM	50V	2200pF
C822	ECKC3D102J	CERAMIC	2KV	1nF
C823	EEUFA1V221B	CERAMIC	35V	220pF
C824	ECQB1H121KF3	FILM	50V	0pF
C826	ECQB1H473K	FILM	50V	47nF

Ref No.	Part No.	Description			
C827	ECKCNS332J	CERAMIC	1.2KV	3.3nF	▲
C830	ECQE4105JFW	FILM	400V	1.0µF	
C831	ECKC3D471JB	CERAMIC	2KV	470pF	▲
C833	ECQB1H682K	FILM	50V	6.8nF	
C834	ECQB1H471KF3	FILM	50V	0pF	
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	470pF	
C854	ECA1EM471GB	ELECT	25V	470pF	
C855	ECEA1HU102	ELECT	50V	1000µF	
C856	ECEA1HU471	ELECT	50V	470µF	
C857	ECA1EM471GB	ELECT	25V	470pF	
C858	ECOS2EA271BB	ELECT	250V	270pF	
C859	ECKC2H471J	CERAMIC	500V	470pF	▲
C861	ECOS2EA221AB	ELECT	250V	220µF	
C863	ECA1EM222GB	ELECT	25V	2.2nF	
C864	ECA0JM102GB	ELECT	6.3V	1nF	
C866	ECA1HM101GB	ELECT	50V	100pF	
C867	ECA1CM222GB	ELECT	16V	2200µF	
C868	ECA1CM100GB	ELECT	16V	10pF	
C871	ECA0JM102GB	ELECT	6.3V	1nF	
C872	ECA1CM222GB	ELECT	16V	2200µF	
C901	ECUV1H030CCX	S.M.CAP	50V	30pF	
C902	ECA1VM101GB	ELECT	35V	100pF	
C903	ECA1CM470GB	ELECT	16V	47µF	
C904	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C905	ECA1CM100GB	ELECT	16V	10pF	
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	100pF	
C914	ECA1HM101GB	ELECT	50V	100pF	
C915	ECA1CM471GB	ELECT	16V	470pF	
C916	ECEA2EU220	ELECT	250V	22µF	
C917	ECA1HM100GB	ELECT	50V	10pF	
C918	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C919	ECCR2H680J	CERAMIC	500V	68pF	
C1051	ECKC1H101J	CERAMIC	50V	100pF	
C1052	ECA1VM470B	ELECT	35V	47pF	
C1053	ECKC1H103JB	CERAMIC	50V	10nF	
C1102	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1103	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1104	ECA0JM101G	ELECT	6.3V	100pF	
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	
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	47pF	
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	
C1302	ECUV1H150JCX	S.M.CAP	50V	15pF	
C1304	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1305	ECA1HM101GB	ELECT	50V	100pF	

Ref No.	Part No.	Description		
C1306	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1307	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1308	ECA1HM101GB	ELECT	50V	100pF
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	100pF
C1317	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1318	ECA1HM101GB	ELECT	50V	100pF
C1321	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1322	ECUV1H101JCX	S.M.CAP	50V	100pF
C1323	ECA1HM101GB	ELECT	50V	100pF
C1324	ECA1HM101GB	ELECT	50V	100pF
C1325	ECUV1H103ZFX	S.M.CAP	50V	10nF
C1326	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1327	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1508	ECUV1H103K BX	S.M.CAP	50V	10nF
C1509	ECA1CM100GB	ELECT	16V	10pF
C1518	ECA1HM101GB	ELECT	50V	100pF
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	1nF
C1552	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1554	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1555	ECA0JM331GB	ELECT	6.3V	330pF
C1556	ECUV1H270JCX	S.M.CAP	50V	27pF
C1557	ECUV1H270JCX	S.M.CAP	50V	27pF
C1559	ECUV1H103K BX	S.M.CAP	50V	10nF
C1560	ECUV1H103K BX	S.M.CAP	50V	10nF
C1561	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1562	ECA0JM331GB	ELECT	6.3V	330pF
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	ECUV1H103K BX	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

Ref No.	Part No.	Description		
C1611	ECUV1H103K BX	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
C1615	ECUV1H101JCX	S.M.CAP	50V	100pF
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	ECUV1H103K BX	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
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	ECUV1H102K BX	S.M.CAP	50V	1nF
C2001	ECA1CM100GB	ELECT	16V	10pF
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	10pF
C2018	ECA1CM100GB	ELECT	16V	10pF
C2019	ECA1HM101GB	ELECT	50V	100pF
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

Ref No.	Part No.	Description		
C2030	ECUV1H221JCX	S.M.CAP	50V	220pF
C2031	ECUV1H104ZFX	S.M.CAP	50V	100nF
C2032	ECA1CM100GB	ELECT	16V	10pF
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	10pF
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	330pF
C2055	ECA1CM331B	ELECT	16V	330pF
C2058	ECUV1H683ZFX	S.M.CAP	50V	68nF
C2059	ECUV1H102KBX	S.M.CAP	50V	1nF
C2060	ECUV1H102KBX	S.M.CAP	50V	1nF
C2301	ECQM1H474J	FILM	50V	470nF
C2302	ECUV1H224ZFX	S.M.CAP	50V	0.22µF
C2303	ECUV1H101JCX	S.M.CAP	50V	100pF
C2304	ECEA1HN010UB	ELECT	50V	1µF
C2305	ECA1HM220GB	ELECT	50V	22pF
C2306	ECUV1H223ZFX	S.M.CAP	50V	22nF
C2307	ECUV1H223ZFX	S.M.CAP	50V	22nF
C2308	ECA1HM010GB	ELECT	50V	1pF
C2309	ECUV1H393KBX	S.M.CAP	50V	39nF
C2310	ECUV1H393KBX	S.M.CAP	50V	39nF
C2311	ECA1HM101GB	ELECT	50V	100pF
C2312	ECUV1H393KBX	S.M.CAP	50V	39nF
C2313	ECUV1H393KBX	S.M.CAP	50V	39nF
C2314	ECA1HM100GB	ELECT	50V	10pF
C2315	ECUV1H562KBX	S.M.CAP	50V	5.6nF
C2316	ECA1HM010GB	ELECT	50V	1pF
C2317	ECA1HM010GB	ELECT	50V	1pF
C2318	ECUV1H050CCX	S.M.CAP	50V	5pF
C2319	ECUV1H103ZFX	S.M.CAP	50V	10nF
C2320	ECUV1H102KBX	S.M.CAP	50V	1nF
C2351	ECA1CM471GB	ELECT	16V	470pF
C2352	ECA1CM471GB	ELECT	16V	470pF
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	470pF
C2362	ECA1CM471GB	ELECT	16V	470pF
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
C3101	ECEA1HN4R7UB	ELECT	50V	4.7µF
C3102	ECA1HM470GB	ELECT	50V	47µF
C3103	ECA1CM470GB	ELECT	16V	47µF
C3107	ECA1HM470GB	ELECT	50V	47µF
C3108	ECA1CM470GB	ELECT	16V	47µF
C3111	ECUV1H102JCX	S.M.CAP	50V	1nF
C3113	ECA1HM470GB	ELECT	50V	47µF
C3114	ECA1CM470GB	ELECT	16V	47µF
C3115	ECEA1HNR47UB	ELECT	50V	0.47µF
C3117	ECEA1HN4R7UB	ELECT	50V	4.7µF
C3119	ECA1HM470GB	ELECT	50V	47µF
C3120	ECA1CM470GB	ELECT	16V	47µF
C3123	ECEA1HN4R7UB	ELECT	50V	4.7µF
C3126	ECEA1HN4R7UB	ELECT	50V	4.7µF

Ref No.	Part No.	Description			
C3128	ECEA1HN4R7UB	ELECT	50V	4.7µF	
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	
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	470pF	
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	
C3190	ECA1HMR47GB	ELECT	50V	0.47µF	
C3191	ECA1HM470GB	ELECT	50V	47µF	
C3192	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3201	ECA1HM010GB	ELECT	50V	1pF	
C3202	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3203	ECA1CM100GB	ELECT	16V	10pF	
C3204	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3351	ECA1HM101GB	ELECT	50V	100pF	
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	100pF	
C3512	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3514	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3515	ECA0JM331GB	ELECT	6.3V	330pF	
C3516	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3521	ECA1HM101GB	ELECT	50V	100pF	
C3522	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3801	ECA1HM010GB	ELECT	50V	1pF	
C3802	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3803	ECA1CM471GB	ELECT	16V	470pF	
C3807	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3808	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3809	ECA0JM101G	ELECT	6.3V	100pF	
C3810	ECUV1H103KBX	S.M.CAP	50V	10nF	
C3812	ECA1CM221GB	ELECT	16V	220pF	

Ref No.	Part No.	Description
DIODES		
D001	MA4020	DIODE
D002	MA4020	DIODE
D103	BA582	DIODE
D104	BA582	DIODE
D251	MA165TA5	DIODE
D252	MA165TA5	DIODE
D253	MA165TA5	DIODE
D254	MA165TA5	DIODE
D351	ERA15-04V3	COIL
D352	ERA15-04V3	COIL
D361	ERA15-04V3	COIL
D362	ERA15-04V3	COIL
D371	ERA15-04V3	COIL
D372	ERA15-04V3	COIL
D387	MA2160LFS	DIODE
D401	MA167TA5	DIODE
D451	MA4056	DIODE
D452	MA2330-ALF	DIODE
D453	TVSEM01ZV0	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
D558	AU02V0	DIODE
D559	MTZJT-7736A	DIODE
D560	1SS252T-77	DIODE
D561	1SS254T-77	DIODE
D562	ERB0615	DIODE
D571	FMV-3GULF027	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	RESISTOR 81W 5% 4.0K Ω
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
D849	FMGG26S	DIODE
D850	EU02	DIODE
D851	FMGG2CS	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

Ref No.	Part No.	Description
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
D2301	MA165TA5	DIODE
D2302	MA165TA5	DIODE
D2303	MA165TA5	DIODE
D2304	MA165TA5	DIODE
D3101	PMLL5242B	DIODE
D3102	PMLL5242B	DIODE
D3103	PMLL5242B	DIODE
D3105	PMLL5242B	DIODE
D3107	PMLL5242B	DIODE
D3109	PMLL5242B	DIODE
D3110	PMLL5242B	DIODE
D3111	PMLL5242B	DIODE
D3112	PMLL5242B	DIODE
D3115	PMLL5242B	DIODE
D3117	PMLL5242B	DIODE
D3120	RLS72TE-11	DIODE
D3351	1SS254T-77	DIODE
D3501	MA4030	DIODE
D3801	MA4043	DIODE
D3802	MTZJT-778.2A	DIODE
D3803	ERA81004V3	RESISTOR 81W 5% 4.0K Ω
D3805	MA4091	DIODE
D3806	MA165TA5	DIODE
D3807	MA165TA5	DIODE
FUSES		
F532	TR5-T1250	FUSE ▲
F801	XBA2C50TH15	FUSE
F845	TR5-T2000	FUSE ▲
F846	TR5-T1250	FUSE ▲
F8011	EYF52BC	FUSE HOLDER
F8012	EYF52BC	FUSE HOLDER
TERMINALS AND LINKS		
JA2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA5	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA6	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA8	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JK3001	TJB16656	A.V.TERMINAL
JSB3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE010	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE011	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE012	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE015	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE022	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE023	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE024	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE025	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE028	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω

Ref No.	Part No.	Description
JSE042	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE050	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
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
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
JSF004	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF005	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF015	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF026	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF038	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
JSF045	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF046	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
JSF054	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF056	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF059	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF061	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSF062	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

COILS

LC1503	ELKTR391CA	DELAY LINE
LC1507	EXCEMT103DTM	COIL
LC1508	EXCEMT103DTM	COIL
LC1509	EXCEMT103DTM	COIL
LC1510	EXCEMT103DTM	COIL
LC1601	ELKTR391CA	DELAY LINE
LC1602	ELKTR391CA	DELAY LINE
LC1603	ELKTR391CA	DELAY LINE
LC1609	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
L252	EXCELSA35T	COIL
L253	EXCELSA35T	COIL
L254	EXCELSA35T	COIL
L255	EXCELSA35T	COIL
L351	SDL5000	DELAY LINE
L352	EXCELD25V	COIL
L353	TLT150K991R	COIL
L361	SDL5000	DELAY LINE
L362	EXCELD25V	COIL
L363	TLT150K991R	COIL
L371	SDL5000	DELAY LINE
L372	EXCELD25V	COIL
L373	TLT150K991R	COIL
L381	TLT220K991R	COIL
L401	EXCELD35V	COIL
L402	EXCELD35V	COIL
L451	EXCELD35V	COIL

Ref No.	Part No.	Description
L552	EXCELSA35T	COIL
L553	EXCELSA35T	COIL
L554	EXCELD35V	COIL
L555	EXCELD35C	COIL
L572	ELHKLBO25B	COIL
L573	ELHKLBO26B	COIL
L575	ELC18B271E	COIL
L601	TLT047K991R	COIL
L602	TLT047K991R	COIL
L603	TLT047K991R	COIL
L605	ERD25TCOT	CARBON 0.25W 5% 0Ω
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
L852	EXCELSA35T	COIL
L853	EXCELSA35T	COIL
L854	ELEIE150KA	COIL
L856	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
L1307	ERD25TCOT	CARBON 0.25W 5% 0Ω
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
L2001	TLT047K991R	COIL
L2002	TLT100K991R	COIL
L2003	EXCELD35V	COIL
L2004	TLT068K991R	COIL
L2005	TLT068K991R	COIL
L2303	EXCELD35V	COIL
L2319	TLS159054E	COIL
L2320	TLS159054E	COIL
L2351	ELEBR6R8KA	COIL
L2361	ELEBR6R8KA	COIL
L3001	ELEBR6R8KA	COIL

Ref No.	Part No.	Description
L3002	ELEBR6R8KA	COIL
L3003	ELEBR470KA	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
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q106	BF799E6327	CHIP TRANSISTOR
Q107	BC847B	TRANSISTOR
Q108	BC847B	TRANSISTOR
Q109	BC860B	TRANSISTOR
Q251	BC847B	TRANSISTOR
Q252	BC847B	TRANSISTOR
Q401	BC847B	TRANSISTOR
Q502	2SC2925STA	TRANSISTOR
Q531	BC547B	TRANSISTOR
Q532	BC547B	TRANSISTOR
Q533	BC547B	TRANSISTOR
Q535	BC547B	TRANSISTOR
Q551	BC547B	TRANSISTOR
Q552	2SC5144LBMA1	TRANSISTOR
Q553	2SC1473-RN	TRANSISTOR
Q554	2SC1473-RN	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

Ref No.	Part No.	Description
Q909	2SC3944ARLB	TRANSISTOR
Q1052	BC557B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1102	BC847B	TRANSISTOR
Q1103	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1112	2SC3757QRTX	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
Q2004	BC860B	TRANSISTOR
Q2006	BC857B	TRANSISTOR
Q2007	BC847B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	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
Q3105	BC847B	TRANSISTOR
Q3106	BC847B	TRANSISTOR
Q3107	BC857B	TRANSISTOR
Q3108	BC847B	TRANSISTOR
Q3113	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

RESISTOR

RL806	TSE1885-1	TRANSISTOR
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	ERJ6GEYOR00	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	ERJ6GEYOR00	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

Ref No.	Part No.	Description
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.CARBO.125W 5% 2R2Ω
R252	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R253	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
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	ERG3SJ102	METAL 3W 5% 1.0KΩ ▲
R260	ERJ6GEYJ2R2	SM.CARBO.125W 5% 2R2Ω
R261	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R262	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
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	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R270	ERG3SJ102	METAL 3W 5% 1.0KΩ ▲
R351	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R352	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R354	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R355	ERG2FJ823	METAL 2W 5% 82KΩ ▲
R356	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R357	ERJ6GEYJ822	S.M.CARB 0.1W 5% 8K2Ω
R358	ERDS1TJ821	CARBON 0.5W 5% 820Ω
R359	ERJ6GEYJ334	S.M.CARB 0.1W 5% 330KΩ
R360	ERDS1TJ103	CARBON 0.5W 5% 10KΩ
R361	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R362	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R364	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R365	ERG2FJ823	METAL 2W 5% 82KΩ ▲
R366	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R367	ERJ6GEYJ822	S.M.CARB 0.1W 5% 8K2Ω
R368	ERDS1TJ821	CARBON 0.5W 5% 820Ω
R369	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω

Ref No.	Part No.	Description
R370	ERQ1CJP1R2	FUSIBLE 1W 5% 1R2Ω ▲
R371	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R372	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R374	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R375	ERG2FJ823	METAL 2W 5% 82KΩ ▲
R376	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R377	ERJ6GEYJ822	S.M.CARB 0.1W 5% 8K2Ω
R378	ERDS1TJ821	CARBON 0.5W 5% 820Ω
R379	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R380	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R381	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R383	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R384	ERQ12HJ101	FUSIBLE 0.5W 5% 100Ω ▲
R390	ERDS1TJ184	CARBON 0.5W 5% 180K
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	ERX12SJR82P	RESISTOR 12W 5% R82Ω
R455	ERX12SJR82P	RESISTOR 12W 5% R82Ω
R456	ERDS1TJ220	CARBON 0.5W 5% 22Ω
R457	ERDS1TJ223	CARBON 0.5W 5% 22KΩ
R458	ERG1SJ272	METAL 1W 5% 2.7KΩ ▲
R459	ERJ6GEYJ393	S.M.CARB 0.1W 5% 39KΩ
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
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	ERX3SJSR27H	RESISTOR 3W 5% R27Ω
R555	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R556	ERO50PKF2802	METAL 50W 1% 28KΩ ▲
R557	ERO25CKF1073	METAL 25W 1% 107KΩ ▲
R558	ERO50PKF4532	METAL 50W 1% 45KΩ ▲
R559	ERO25CKF1002	METAL 0.25W 1% 10KΩ ▲
R560	ERD25TJ222	CARBON 0.25W 5% 2K2Ω
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	ERDS1TJ120	CARBON 0.5W 5% 12Ω
R570	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R571	ERX3FJ2R7H	RESISTOR 3W 5% 2R7Ω
R572	ERG3FJ821	METAL 3W 5% 820Ω ▲
R574	ERG3FJ151	METAL 3W 5% 150Ω ▲
R579	ERD25TJ274	CARBON 0.25W 5% 270KΩ

Ref No.	Part No.	Description
R580	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R581	ERD25TJ104	CARBON 0.25W 5% 100KΩ
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
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 55 82KΩ
R612	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R613	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R615	ERJ6GEYJ823	S.M.CARB 0.1W 55 82KΩ
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
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	ERJ6GEYJ150	S.M.CARB 0.1W 5% 15Ω
R649	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R651	ERJ6GEYJ225	S.M.CARB 0.125W 5% 2.2MΩ
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	S.M.CARB 0.125W 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
R662	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
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	ERJ6GEYJ224	S.M.CARB 0.1W 5% 220KΩ
R712	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R714	ERJ6GEYJ682	S.M.CARB 0.1W 5% 6K8Ω
R715	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R716	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R717	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ

Ref No.	Part No.	Description
R718	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R753	ERD25TJ333	CARBON 0.25W 5% 33KΩ
R805	232266296706	THERMISTOR
R806	ERD25TJ101	CARBON 0.25W 5% 100Ω
R807	ERD25TJ104	CARBON 0.25W 5% 100KΩ
R809	ERF10ZK4R7	WOUND 10W 5% 4R7Ω ▲
R810	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R811	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R812	ERD25TJ681	CARBON 0.25W 5% 680Ω
R814	ERD25TJ332	CARBON 0.25W 5% 3K3Ω
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	RESISTOR 2W 5% R22Ω
R824	ERX2SJR22	RESISTOR 2W 5% R22Ω
R825	ERX2SJR22	RESISTOR 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 ▲
R832	ERG1SJ331	METAL 1W 5% 330Ω ▲
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
R847	ERQ1CJP1R0	FUSIBLE 1W 5% 1R0Ω ▲
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	ERG3FJ470	METAL 3W 5% 47Ω ▲
R864	ERDS1TJ103	CARBON 0.5W 5% 10KΩ
R865	ERG3FJ470	METAL 3W 5% 47Ω ▲
R867	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R870	ERD25TJ101	CARBON 0.25W 5% 100Ω
R873	ERDS1TJ2R2	CARBON 0.5W 5% 2.2Ω
R876	ERD25TJ562	CARBON 0.25W 5% 5K6Ω
R877	ERO25CKF1022	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	ERF10ZK4R7	WOUND 10W 5% 4R7Ω ▲
R888	ERDS1TJ393	CARBON 0.5W 5% 39KΩ
R889	ERD25TJ392	CARBON 0.25W 5% 3K9Ω
R890	ERX3SJR56	RESISTOR 3W 5% R56Ω
R891	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R892	ERD25TJ222	CARBON 0.25W 5% 2K2Ω
R894	ERD25TJ101	CARBON 0.25W 5% 100Ω
R905	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680Ω
R906	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R907	ERJ6GEYJ822	S.M.CARB 0.1W 5% 8K2Ω
R908	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R909	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R910	ERJ6GEYJ221	S.M.CARB 0.1W 5% 220Ω
R911	ERD25TJ561	CARBON 0.25W 5% 560Ω
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
R918	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R919	ERQ14AJW390	FUSIBLE 14W 5% 39Ω ▲
R920	ERQ14AJW390	FUSIBLE 14W 5% 39Ω ▲
R922	ERD25TJ683	CARBON 0.25W 5% 68KΩ
R923	ERD25TJ683	CARBON 0.25W 5% 68KΩ
R924	ERDS1FYJ390	CARBON 0.5W 5% 39Ω ▲
R925	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω

Ref No.	Part No.	Description			
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R927	ERD25TJ122	CARBON	0.25W	5%	1K2Ω
R928	ERD25TJ2R7	CARBON	0.25W	5%	2R7Ω
R929	ERDS1FYJ221	CARBON	0.5W	5%	220Ω
R930	ERD25TJ2R7	CARBON	0.25W	5%	2R7Ω
R931	ERDS1FYJ390	CARBON	0.5W	5%	39Ω ▲
R932	ERDS1FYJ101	CARBON	0.5W	5%	100Ω ▲
R933	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R934	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R935	ERQ14AJW3R9	FUSIBLE	14W	5%	3R9Ω ▲
R936	ERQ1CJP102	METAL	1W	5%	1KΩ ▲
R937	ERQ14AJW100	METAL	0.25W	5%	10Ω ▲
R938	ERD25TJ122	CARBON	0.25W	5%	1K2Ω
R940	ERD25TJ3R3	CARBON	0.25W	5%	3R3Ω
R941	ERD25TJ3R3	CARBON	0.25W	5%	3R3Ω
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
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
R1145	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
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

Ref No.	Part No.	Description			
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	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
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
R1307	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω
R1308	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1MΩ
R1313	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
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
R1320	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1321	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1322	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1323	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1324	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1325	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1326	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1327	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R1328	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1329	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1337	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω
R1340	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω
R1501	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1502	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
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	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1516	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1518	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1519	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1520	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1523	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1550	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R1551	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1552	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1554	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1555	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω
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	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
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
R1581	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
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
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
R1624	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω

Ref No.	Part No.	Description
R1625	ERJ6GEYJ271	S.M.CARB 0.1W 5% 270Ω
R1626	ERJ6GEYJ391	S.M.CARB 0.1W 5% 390Ω
R1627	ERJ6GEYJ182	S.M.CARB 0.1W 5% 1K8Ω
R1628	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
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	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1641	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1643	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1644	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1646	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1647	ERJ6GEYJ151	S.M.CARB 0.1W 5% 150Ω
R1648	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1649	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1650	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1652	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1653	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1654	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R1656	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
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
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
R1701	ERJ6GEYJ180	S.M.CARB 0.1W 5% 18Ω
R1703	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1704	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1705	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1706	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1707	ERJ6GEYJ180	S.M.CARB 0.1W 5% 18Ω
R1710	ERJ6GEYJ180	S.M.CARB 0.1W 5% 18Ω
R1713	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1716	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R1724	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1730	ERJ6GEYJ821	S.M.CARB 0.1W 5% 820Ω
R1777	ERJ6GEYJ561	S.M.CARB 0.1W 5% 560Ω
R1778	ERJ6GEYJ821	S.M.CARB 0.1W 5% 820Ω
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
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	ERJ6GEY0R00	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	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
R2039	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω

Ref No.	Part No.	Description
R2044	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R2045	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R2301	ERJ6GEYJ2R2	S.M.CARB 0.125W 5% 2R2Ω
R2302	ERJ6GEYJ183	S.M.CARB 0.1W 5% 18KΩ
R2303	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R2304	ERJ6GEYJ391	S.M.CARB 0.1W 5% 390Ω
R2305	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R2306	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R2307	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R2308	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R2309	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R2310	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R2311	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R2312	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R2313	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R2314	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R2315	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R2316	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R2317	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R2318	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R2319	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R2320	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R2322	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R2351	ERQ14AJW100	METAL 0.25W 5% 10Ω
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
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
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
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	ERD2FCVVG100T	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
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

Ref No.	Part No.	Description			
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	ERD2FCVG100T	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	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3180	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3182	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3184	ERJ6GEY0R00	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	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3193	ERJ6GEY0R00	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	ERD2FCVG100T	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	ERD2FCVG100T	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
R3226	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3227	ERJ6GEY0R00	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	ERD2FCVG100T	CARBON	2W	2%	10Ω
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
R3351	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3352	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R3353	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470KΩ
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω

Ref No.	Part No.	Description			
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
R3802	ERG3FJ100	METAL	3W	5%	10Ω
R3803	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R3804	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
SWITCHES					
S801	ESB91232A	SWITCH			
S1051	EVQ23405R	SWITCH			
S1052	EVQ23405R	SWITCH			
S1053	EVQ23405R	SWITCH			
S1054	EVQ23405R	SWITCH			
S1055	EVQ23405R	SWITCH			
TRANSFORMERS					
T501	TLHA003	TRANSFORMER			
T551	ZTFH65011A	F.B.T.			
T801	ETP35KAN615U	TRANSFORMER			
T802	ETS49AH137ND	TRANSFORMER			
T803	ETQ19K55AY	TRANSFORMER			
FILTERS					
X101	EFCT6504BF	FILTER			
X102	EFCT5M7MW3	FILTER			
X103	EFCT6R0MW5	FILTER			
X104	K3953—M100	SAW FILTER			
X105	L9454M	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			

DIFFERENCES FOR MODEL TX – 29AD50F/S

Ref No.	Part No.	Description	
MISCELLANEOUS COMPONENTS			
4)	TKU8E00270	REAR COVER	△
7)	TLK8E05125	DEGAUSS COIL	
8)	THT1009R	CRT FIXING SCREW	
9)	A68ESF002X43	C.R.T.	△
11)	TKY8E080	CABINET	△
14)	TBM173052	PANASONIC BADGE	
15)	TBM8E1697	MODEL LABEL	
16)	TNPA0295AC	D P.C.B	△
22)	TNPH0063AL	E P.C.B	△
27)	TKP8E1144	SPEAKER NET	
	TPC8E4543	OUTER CARTON	

Ref No.	Part No.	Description	
DIODES			
D557	ERC91-02J5	DIODE	
D852	MA4091	DIODE	
INTEGRATED CIRCUITS			
IC1104	X24C0301VU	EAROM	
IC1105	27C2001401AB	EPROM	
COILS			
L571	ELC18B221L	COIL	


DIFFERENCES FOR MODEL TX – 25AD50F/S

Ref No.	Part No.	Description	
MISCELLANEOUS COMPONENTS			
4)	TKU8E00280	BACK COVER	△
7)	TLK8E05120	DEGAUSS COIL	
8)	THE492-4	CRT FIXING SCREW	
9)	A59ESF002X43	CRT	△
11)	TKY8E100	CABINET	△
14)	TBM153022	PANASONIC BADGE	
15)	TBM8E1698	MODEL LABEL	
16)	TNPA0295AG	D P.C.B	△
22)	TNPH0063AM	E P.C.B.	△
27)	TKP8E1146	SPEAKER NET	
	TPC8E4545	OUTER CARTON	

Ref No.	Part No.	Description	
CAPACITORS			
C848	ECKC2H471J	CERAMIC 500V 470pF	△
DIODES			
D557	ERC91-02L9	DIODE	
D852	MTZJT-779.1C	DIODE	
INTEGRATED CIRCUITS			
IC1104	X24C0301VV	EAROM	
IC1105	27C2001401AA	EPROM	
COILS			
L571	ELC18B331E	COIL	

**SCHEMATIC DIAGRAM FOR MODELS
TX-29AD50F/S
TX-25AD50F/S
(EURO-3 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, 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



Indicates the Vertical/Horizontal signal path

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

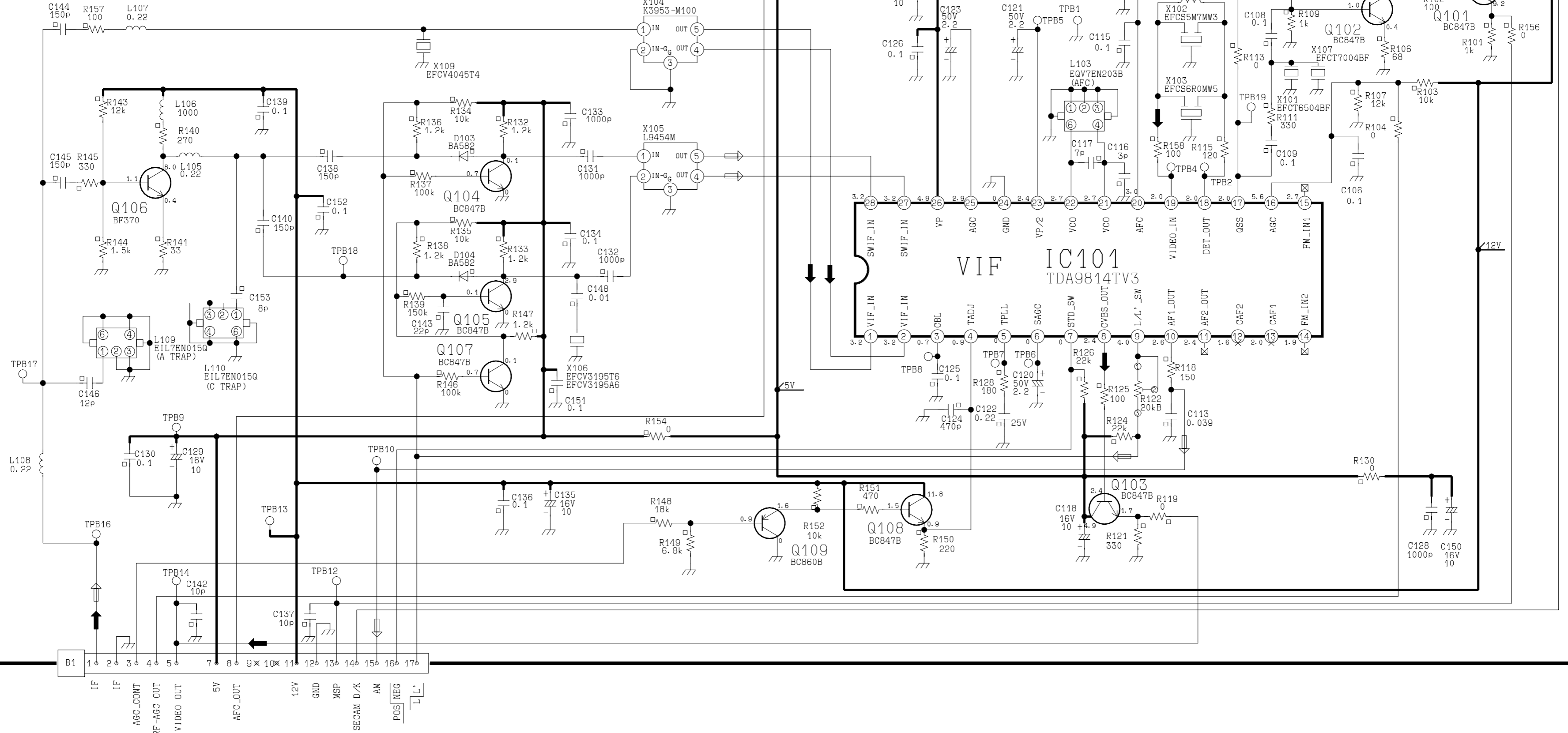
PRECAUTIONS

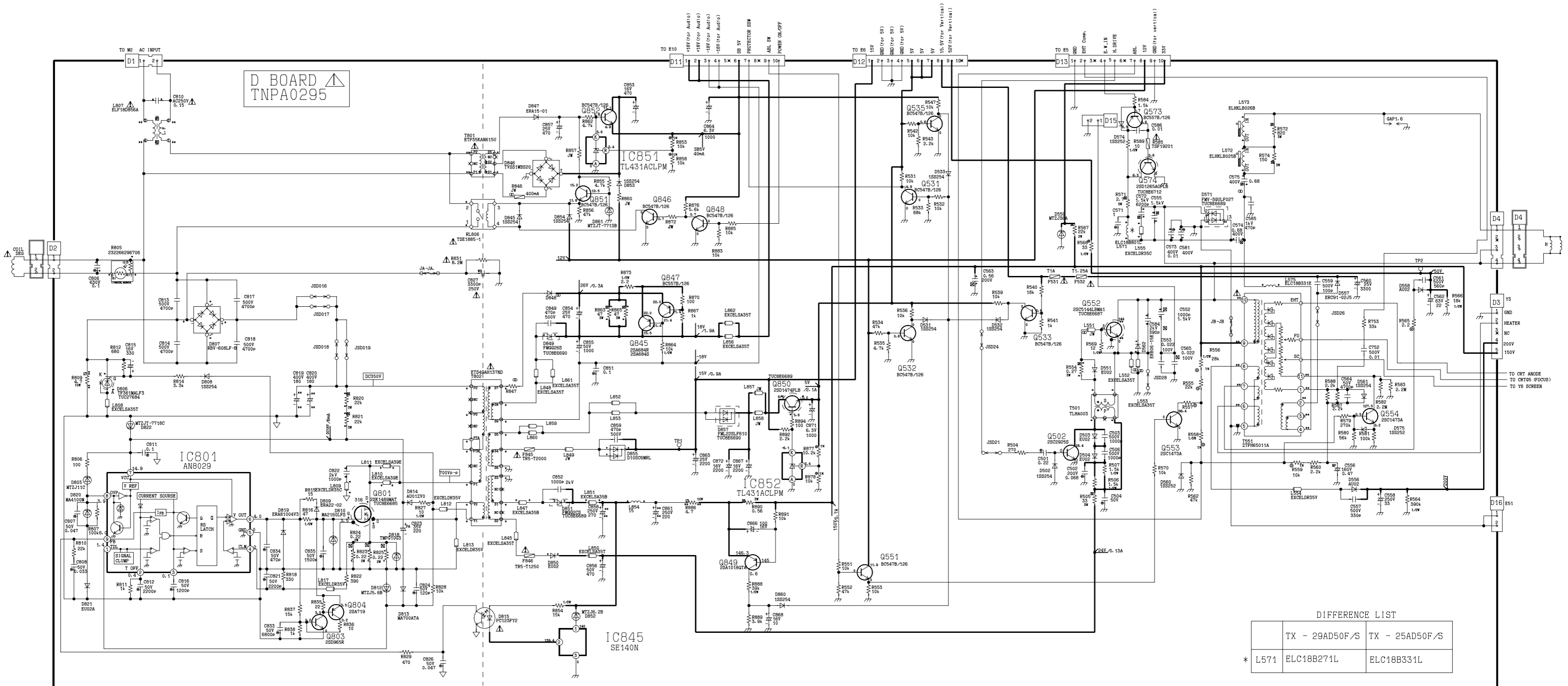
- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short-circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, 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.

B BOARD
TNPA0317





D BOARD
TNPA0295

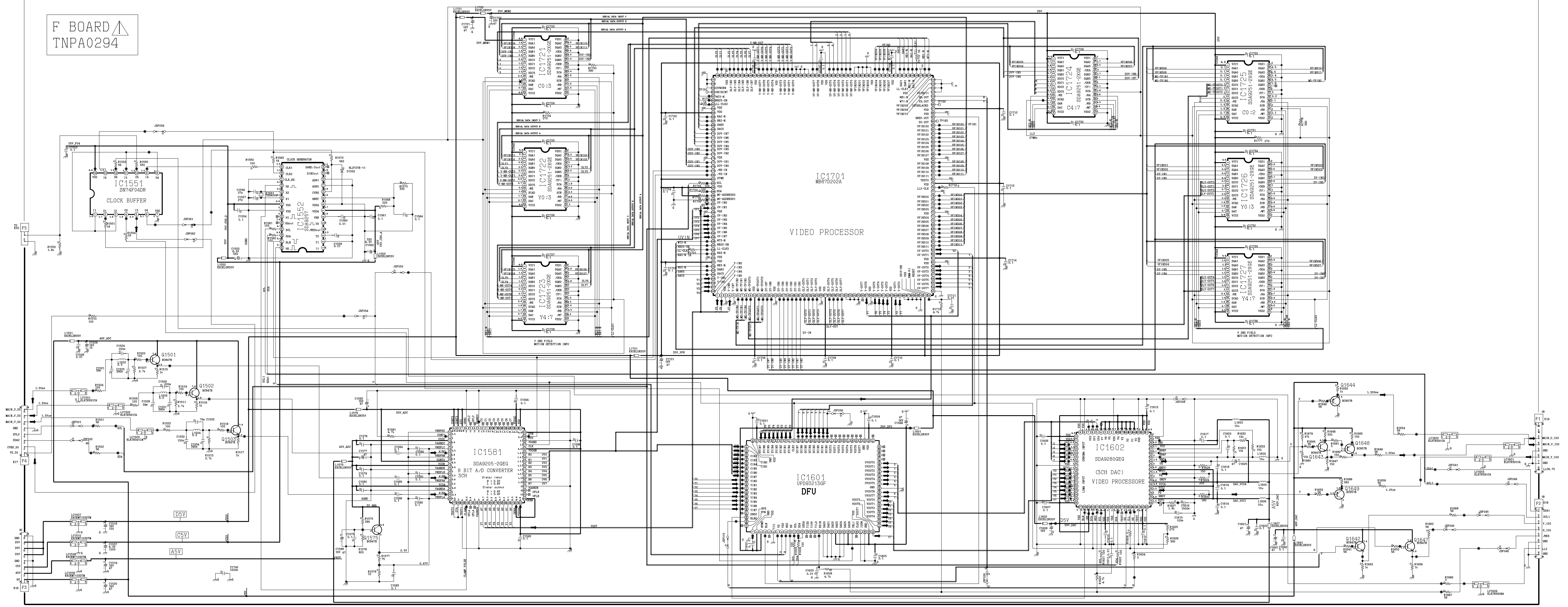
IC801
AN8029

IC845
SE140N

DIFFERENCE LIST

	TX - 29AD50F/S	TX - 25AD50F/S
* L571	ELC18B271L	ELC18B331L

F BOARD
TNPA0294

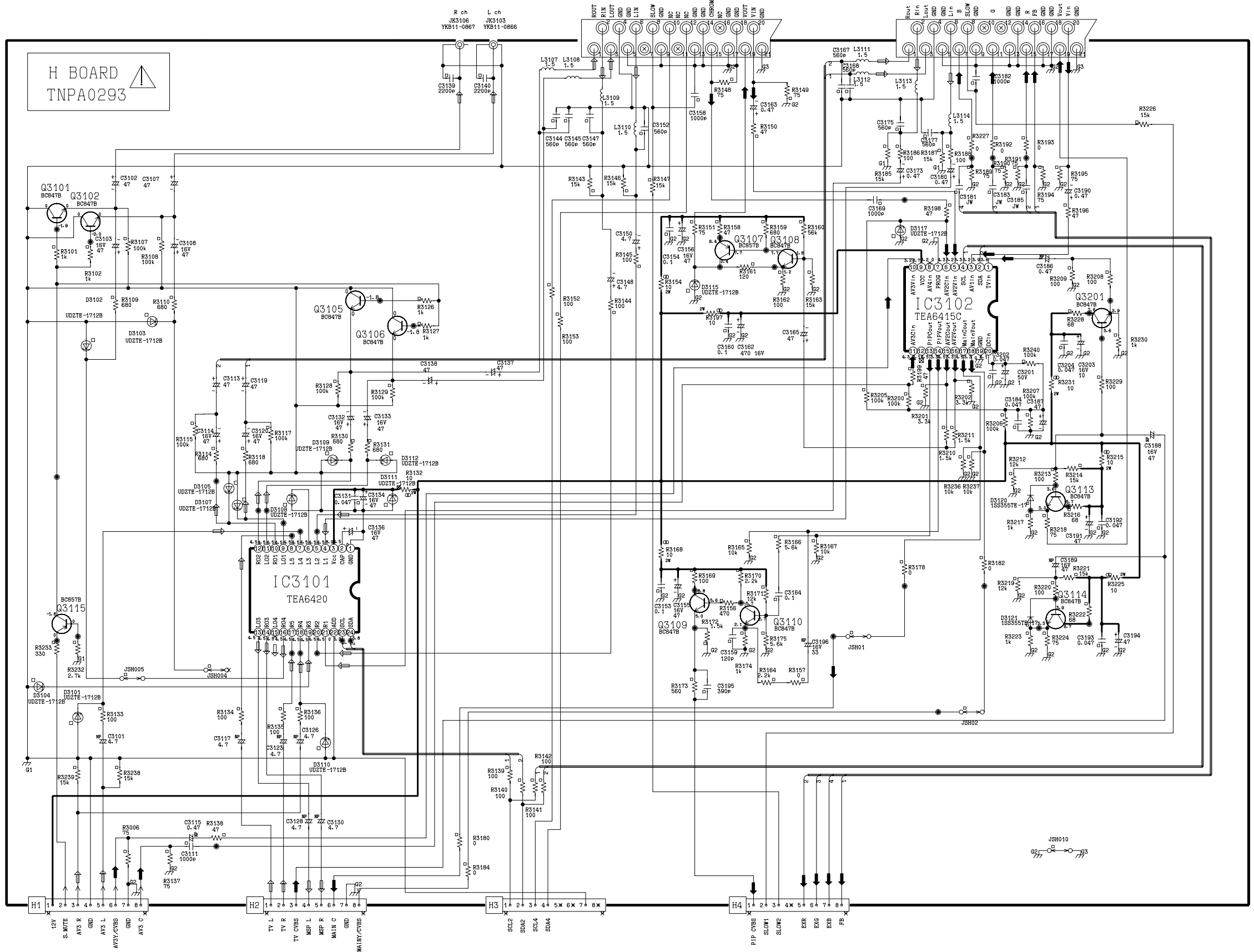


H BOARD
TNPA0293

R ch L ch
JK3106 JK3103
YKB11-0867 YKB11-0866

AV2 JK3102

AV1 JK3101

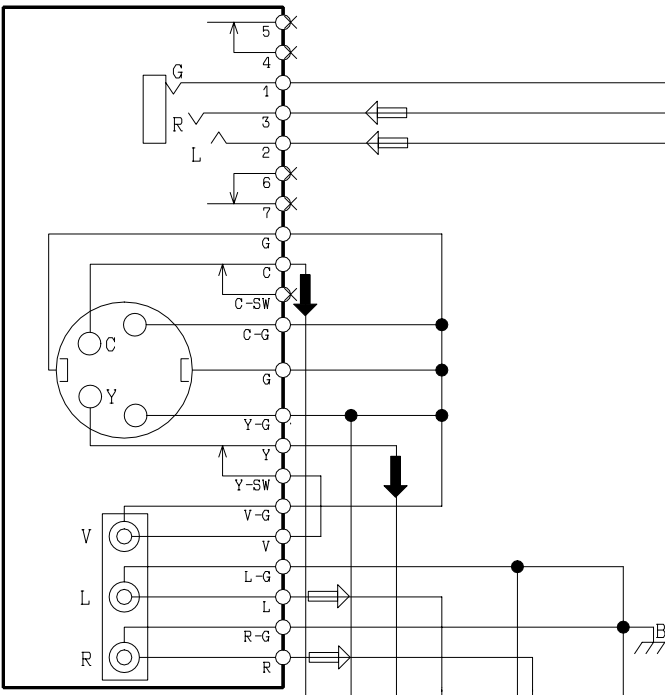
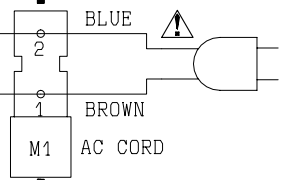
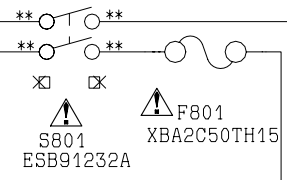
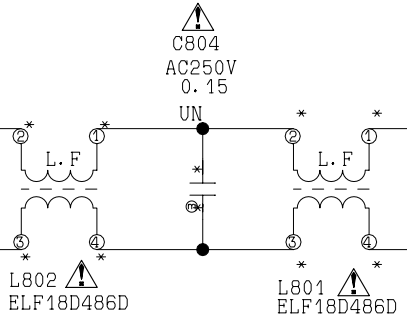
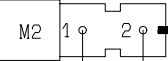


M BOARD
TNPA0348

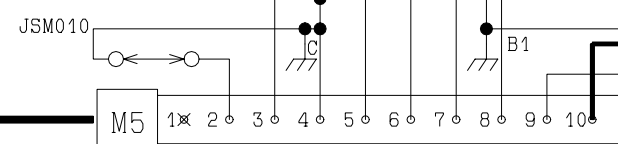
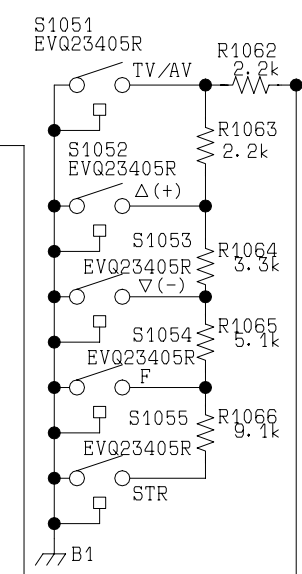
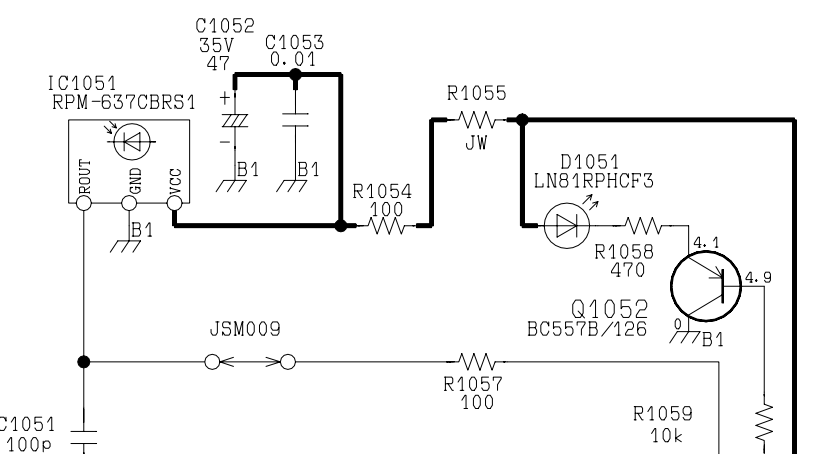
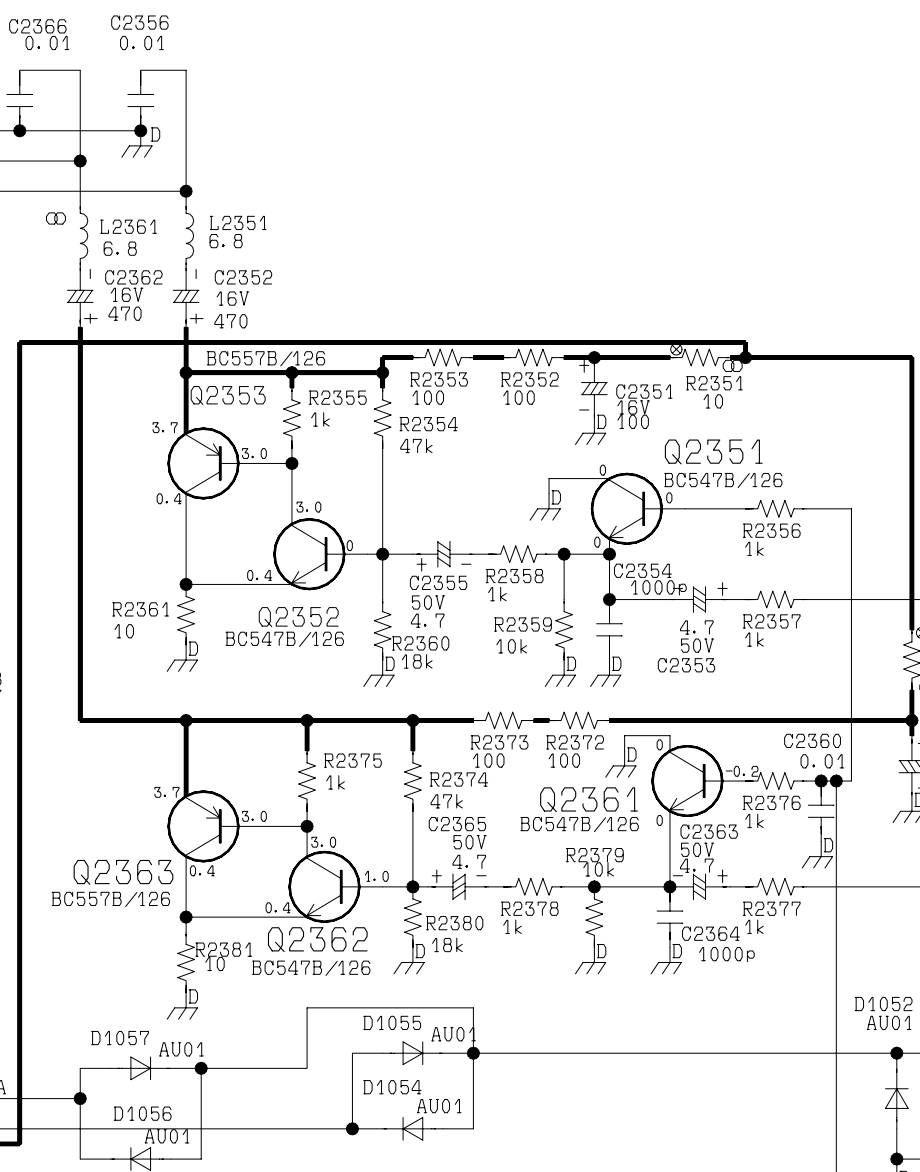


COLD

HOT



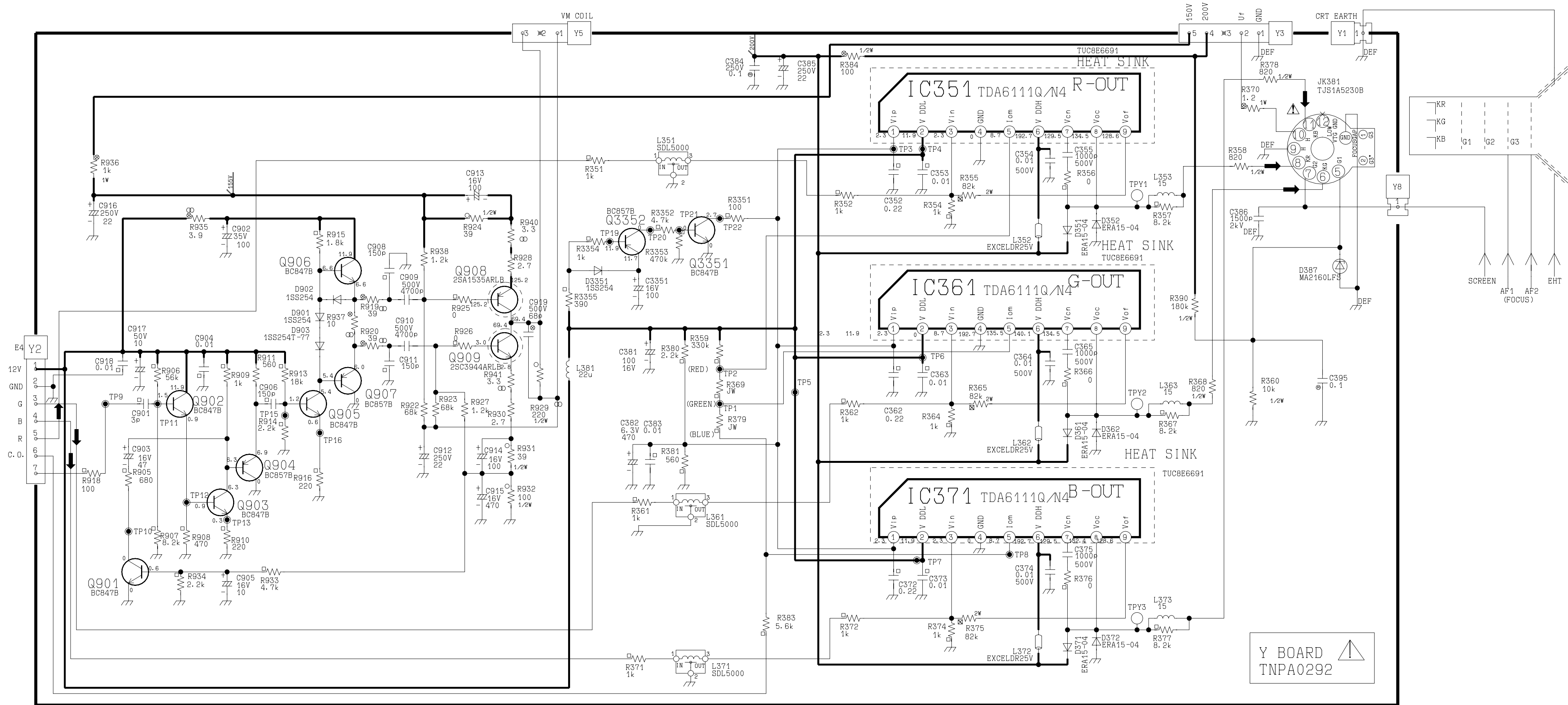
JK3001
TJB16656



E13
C-GND C GND Y L GND R SMUTE 10V

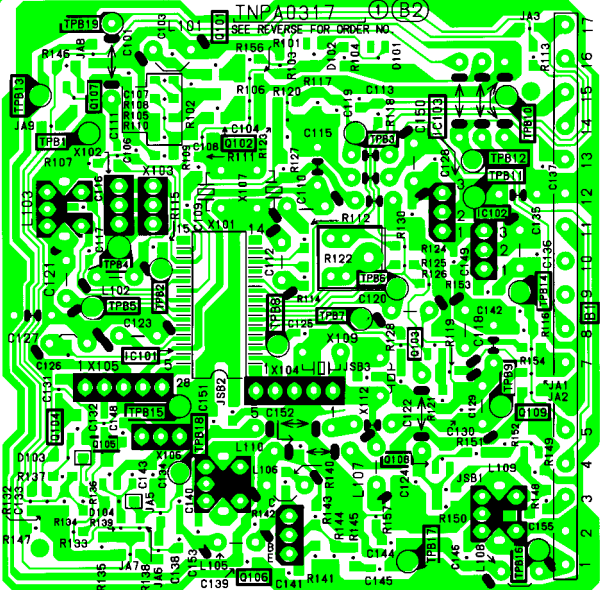


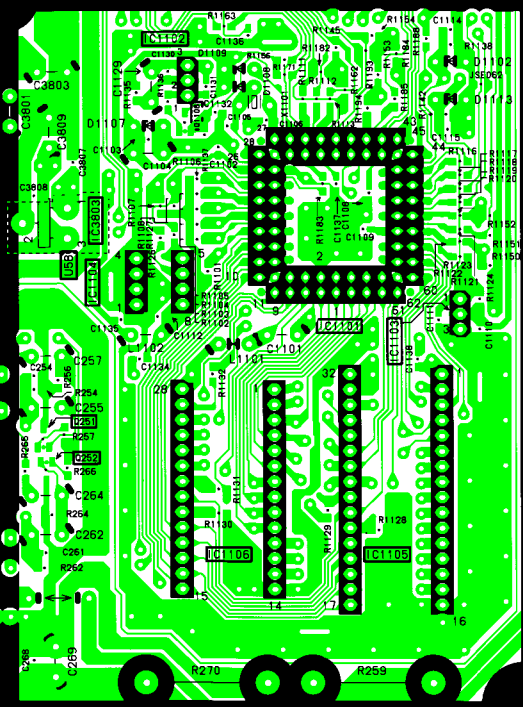
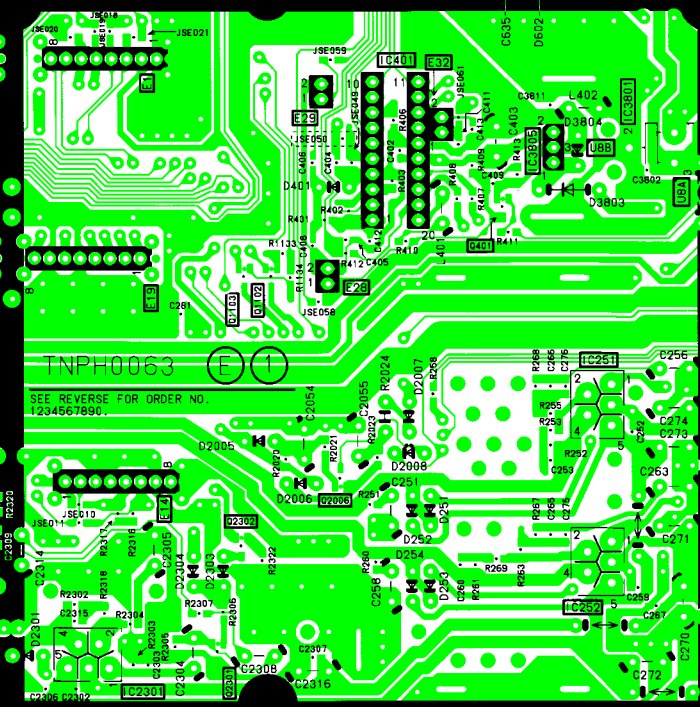
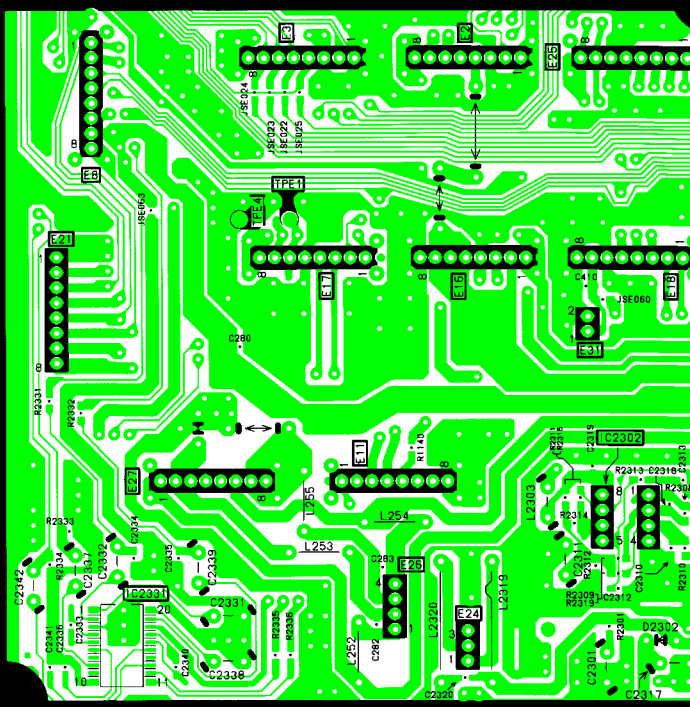
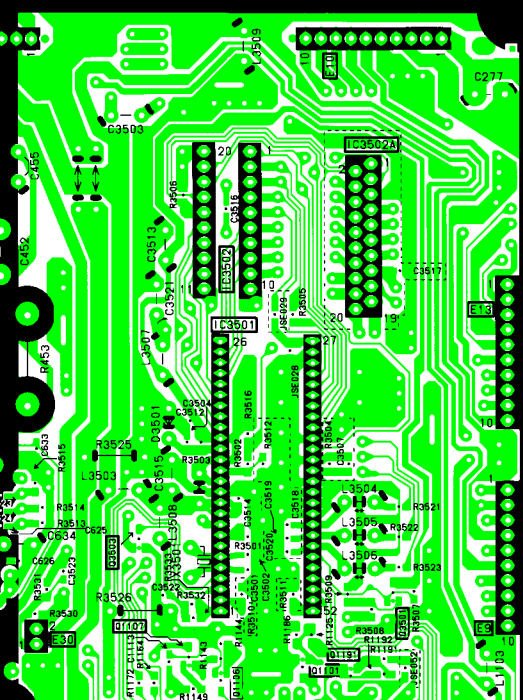
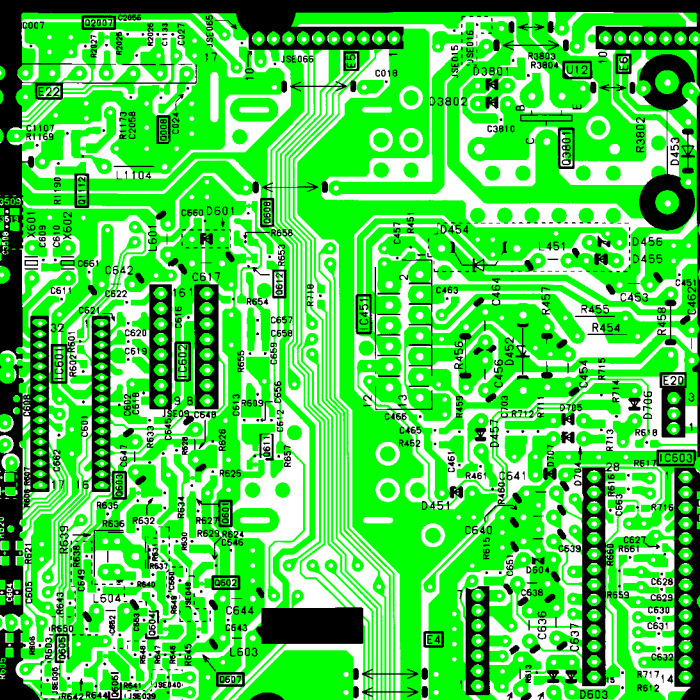
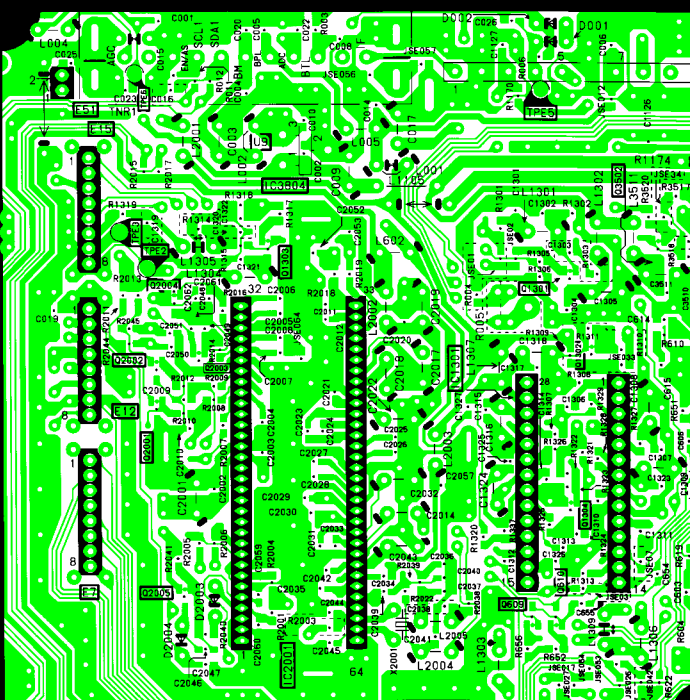
E9
KHL GND KH GND GND KEY SCAN RSIG SB LED SB 5V

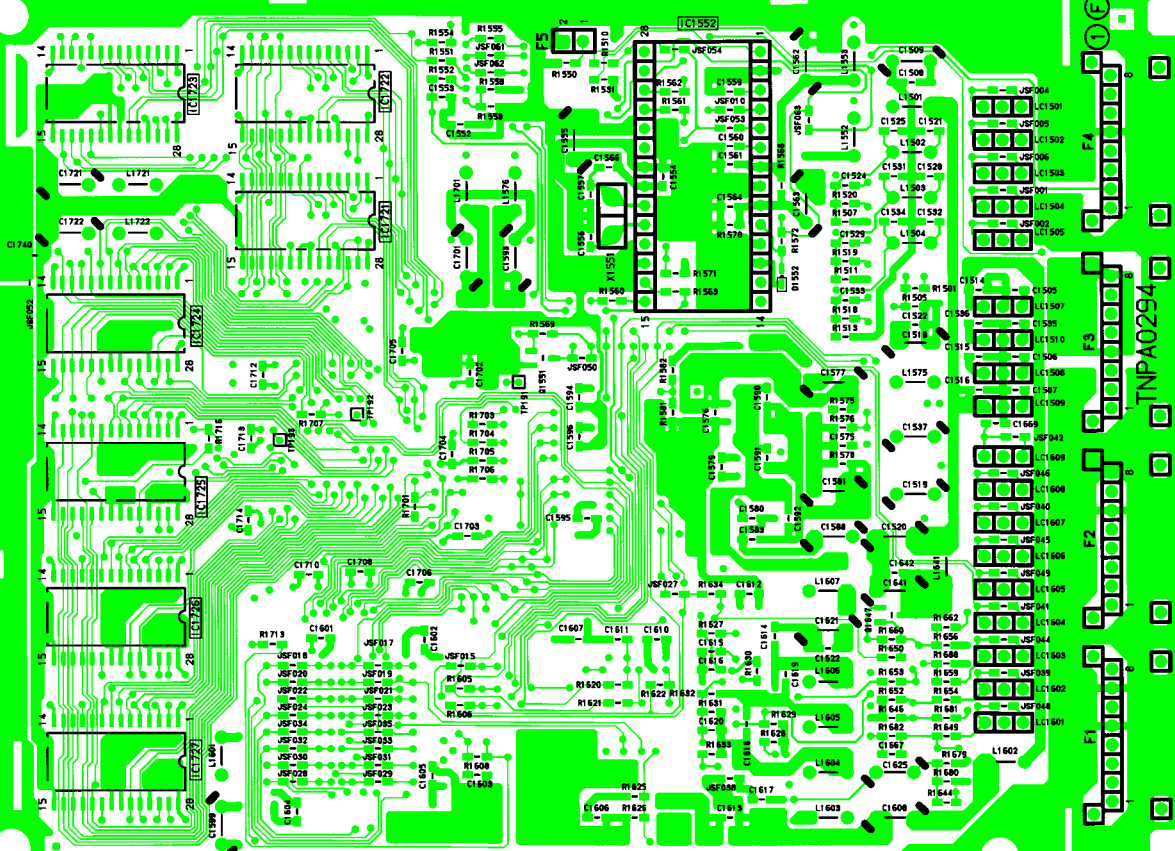


Y BOARD
TNPA0292

SEE REVERSE FOR ORDER NO.

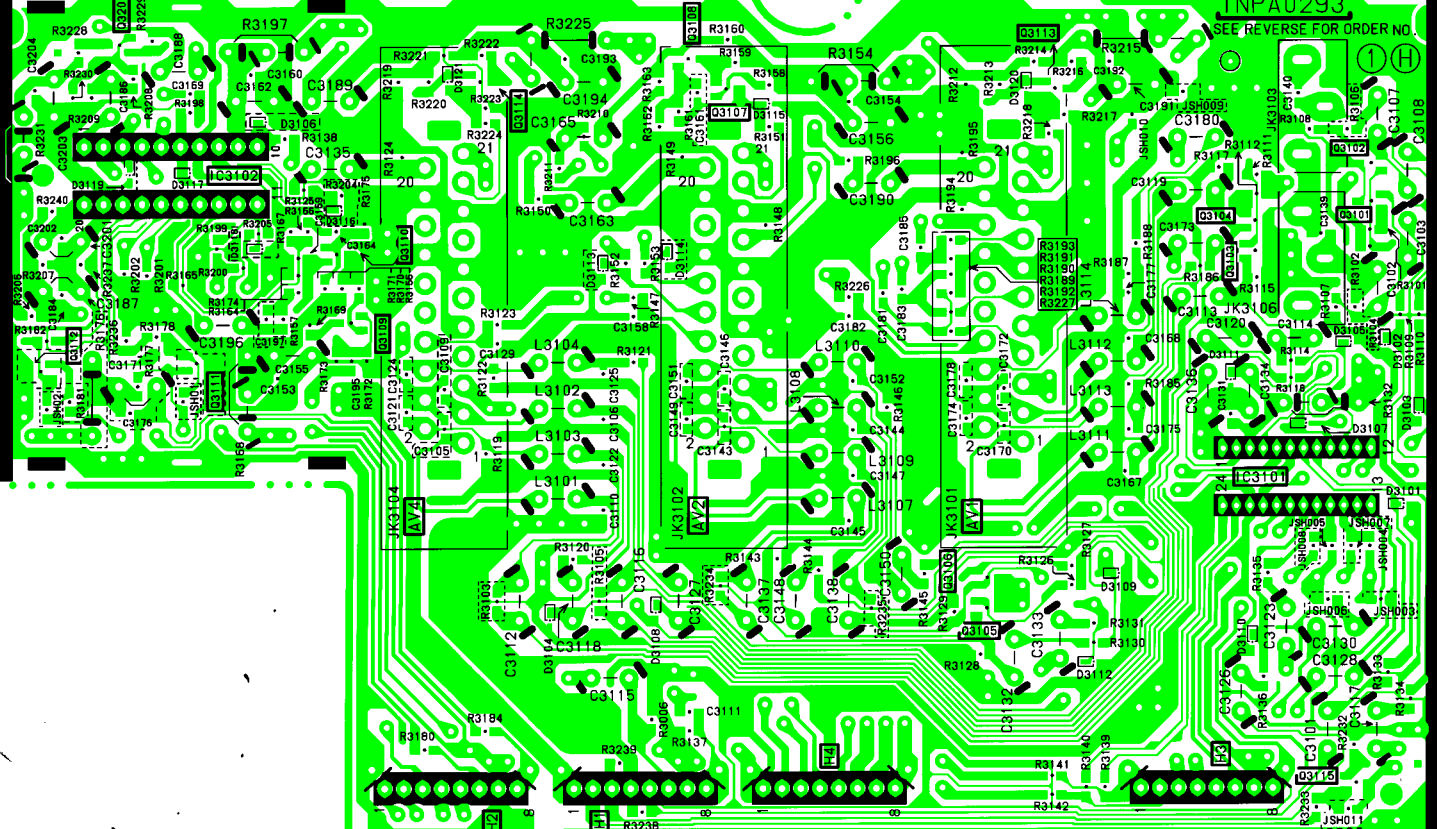






TNPA0294





(1) (H)

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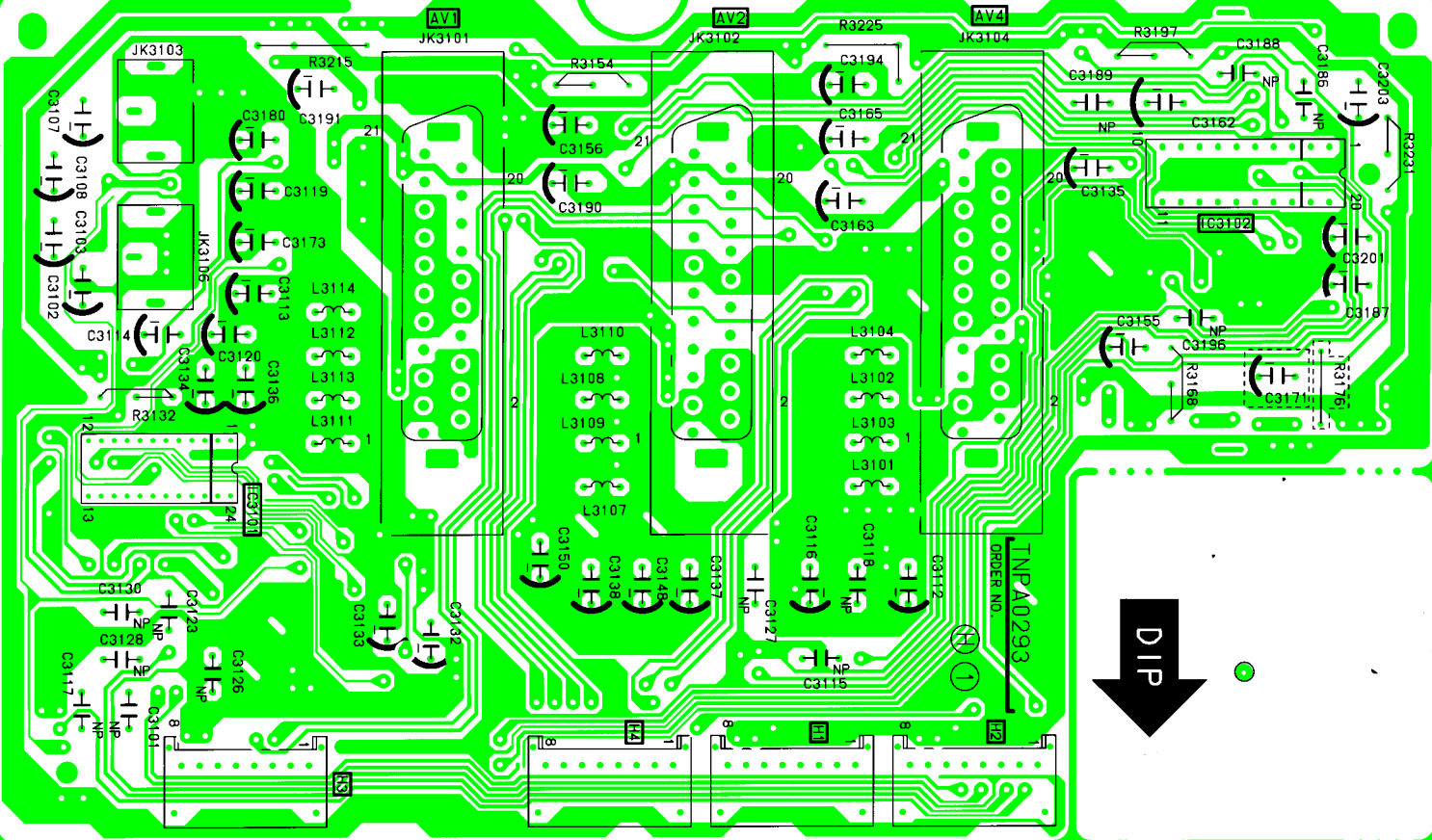
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DIP

TNP A0293

ORDER NO.

AV1

AV2

AV4

C3102

AV3

AV5

AV3

AV5

