

# TX-29/25AD70F/P Service Manual

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Mechanical  
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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-29AD70F/P TX-25AD70F/P EURO-3H Chassis

### SPECIFICATIONS

(Information in brackets {} refer to TX-25AD70F/P)

<b>Power Source :</b>	220-240V AC, 50Hz
<b>Power Consumption :</b>	208W, {205W}
<b>Standby Power Consumption :</b>	1W
<b>Aerial Impedance :</b>	75Ω unbalanced, Coaxial Type
<b>Receiving System :</b>	PAL-I, B, G, D, K, H, PAL 60, SECAM B, G, D, K, L/L' MNTSC, NTSC (AV Only)
<b>Receiving Channels :</b>	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)
<b>Intermediate Frequency :</b>	
Video	38.9 MHz, 34MHz
Sound	32.9MHz, 33.4 MHz 33.16 MHz, 32.4 MHz, 40.4MHz
Colour	34.47 MHz, 34.5 MHz, 34.65 MHz
<b>Video / Audio Terminals :</b>	
AUDIO MONITOR OUT	Audio(RCA x 2) 500mV rms,1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)

AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV2 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ 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
<b>High Voltage :</b>	30.5kV ± 1kV (zero beam current)
<b>Picture Tube :</b>	A68EHM69X73T 68 cm {A59ESF002X43 59 cm}
<b>Audio Output :</b>	
Speaker	2 x 20W (Music Power) 8Ω Impedance
Headphones	8Ω Impedance
<b>Accessories supplied :</b>	Remote Control 2 x R6 (UM3) Batteries
<b>Dimensions :</b>	
Height :	570 mm {510 mm}
Width :	698 mm {625 mm}
Depth :	483 mm {468 mm}
<b>Net Weight :</b>	37kg {31kg}

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

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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 tube to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

### LEAKAGE CURRENT COLD CHECK

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

### LEAKAGE CURRENT HOT CHECK

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

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

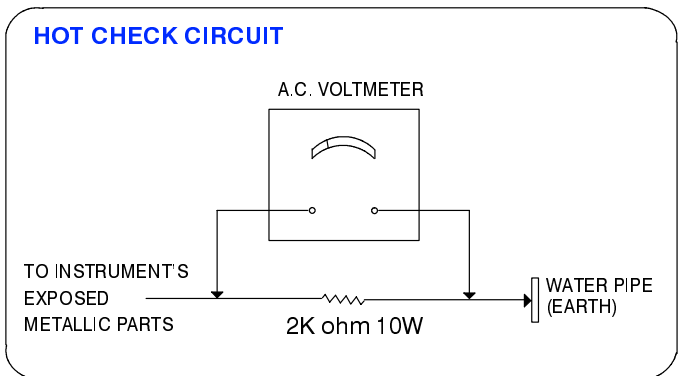


Fig.1

### X-RADIATION WARNING

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

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

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

## SERVICE HINTS

### HOW TO REMOVE THE REAR COVER

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

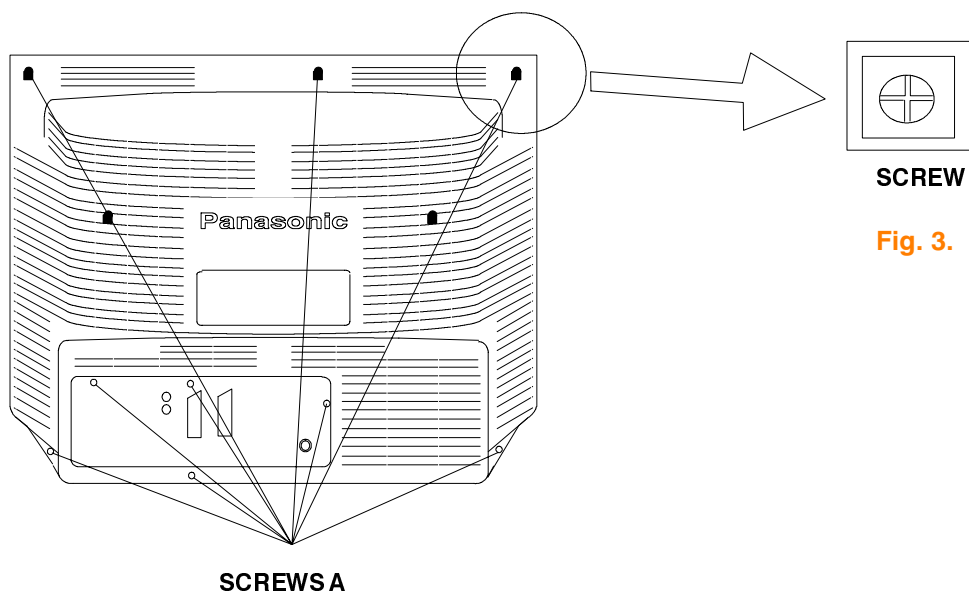


Fig. 2.

SCREW

Fig. 3.

## LOCATION OF CONTROLS

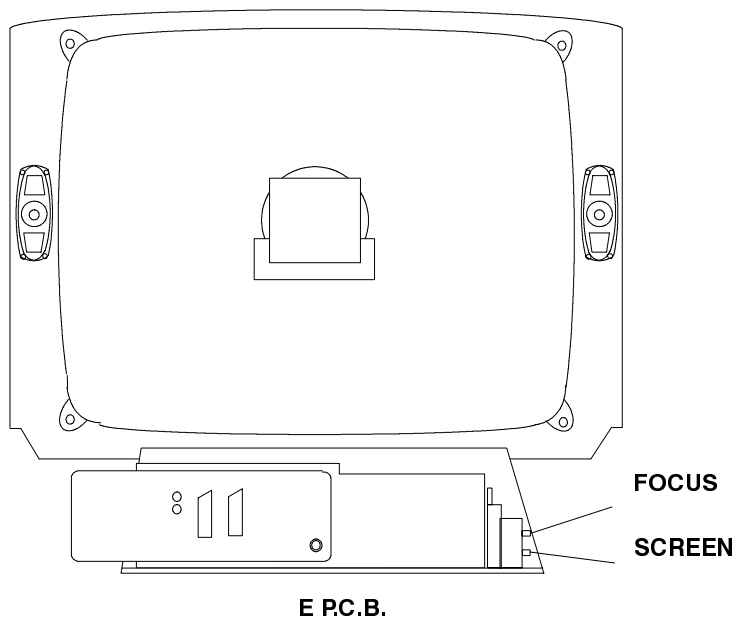


Fig. 4.

## SERVICE MODE

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

1. Set the Bass to maximum position, set the Treble to minimum position, press the Reveal button on the remote control and at the same time press the Volume down 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 down / up through the functions.
3. Press the YELLOW / BLUE buttons to alter the function values.
4. Press the STORE button on the preset panel 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 and analogue levels into the Memory Pack and then upload them onto another EURO-3H TV set.

## USING THE MEMORY PACK

### TV to Memory Pack process

1. Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
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 lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
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 switch off the TV.
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 switch off the TV 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.

# ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments
<b>Supply Voltage Check</b> 1. Receive a standard test pattern 2. Set the controls: Brightness      Minimum Contrast         Minimum Volume            Minimum	1. Confirm the following voltages. <b>E PCB</b> <b>U5B</b> 5 ± 0.5V <b>U8A</b> 8 ± 0.5V <b>U9</b> 9 ± 0.5V <b>U12</b> 11.8 ± 0.5V <b>D PCB</b> <b>U5A</b> 5.1 + 0.12/-0.1V <b>U5SB</b> 5 ± 0.25V <b>TP1</b> 15 ± 0.7V <b>U16</b> 18.2 ± 0.8V <b>U22</b> 22.5 ± 1V <b>U38</b> 39 ± 1V <b>TP2</b> 54 ± 2.5V <b>U150</b> 150 ± 1V <b>U200</b> 200 ± 10V

## SELF CHECK

Self check is used to automatically check the Bus lines and Hexadecimal code of the TV set.  
 To enter the Self Check mode press Function down button, on the Preset Panel, at the same time pressing the Status button, on the Remote Control, and the screen will show:-  
 When exiting Self Check the customer settings will return to factory setup.

Test Byte			Hex codes						
0	— ok	Test Byte	8	— ok	Col Decoder (M)	16	— —	Col Decoder (P)	09
1	— ok	Lst Power	9	— ok	Clock generator	17	— —	Q - PIP	73
2	— ok	U5 Det	10	— ok	V - Processor	18	— ok	Not Used	E4
3	— ok	Protector	11	— ok	DFU	19	— ok	Not Used	BF
4	— ok	Not Used	12	— ok	Display Processor	20	— ok	EAROM	BB
5	— ok	Not Used	13	— ok	RGB Processor	21	— ok	Audio Matrix	BF
6	— ok	Not Used	14	— ok	Deflection IC	22	— ok	Video Matrix	03
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".

## Alignment Settings

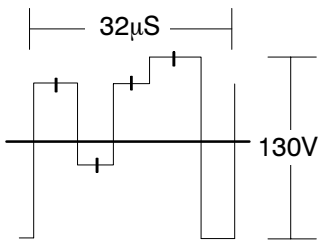
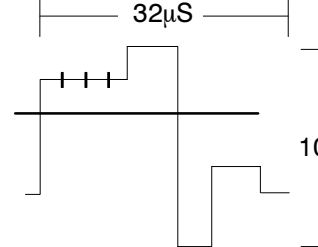
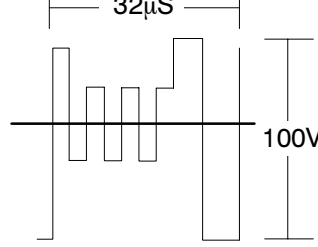
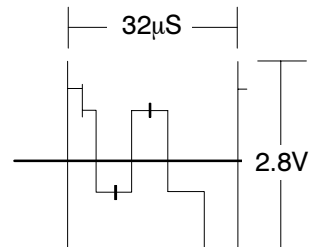
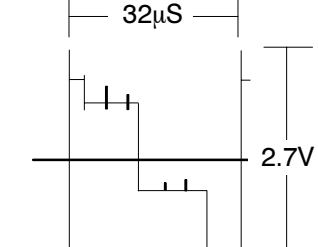
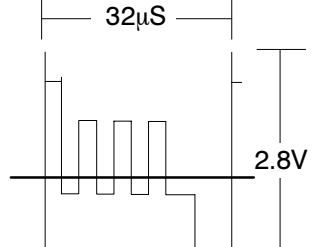
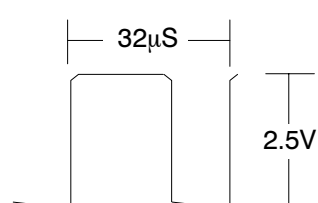
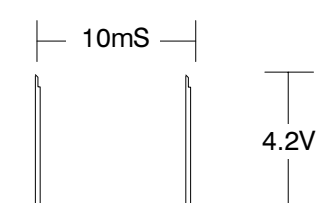
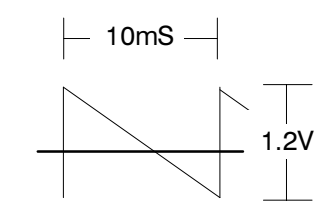
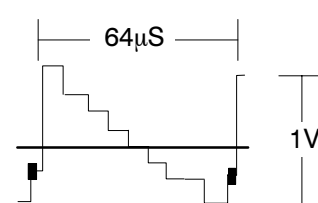
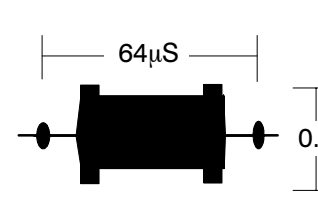
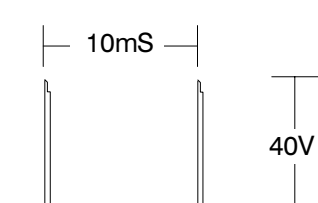
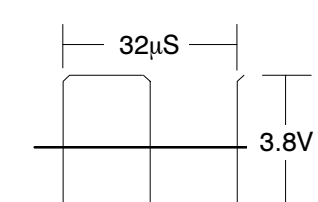
(The figures used below are nominal and used for representative purposes only)

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	---	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 these settings. Adjust for optimum.
White RGB	WHITE RGB 032 032 032	Press the GREEN button to step through these settings. Adjust for optimum.
Sub Brightness	SUB BRIGHT 000	Optimum setting

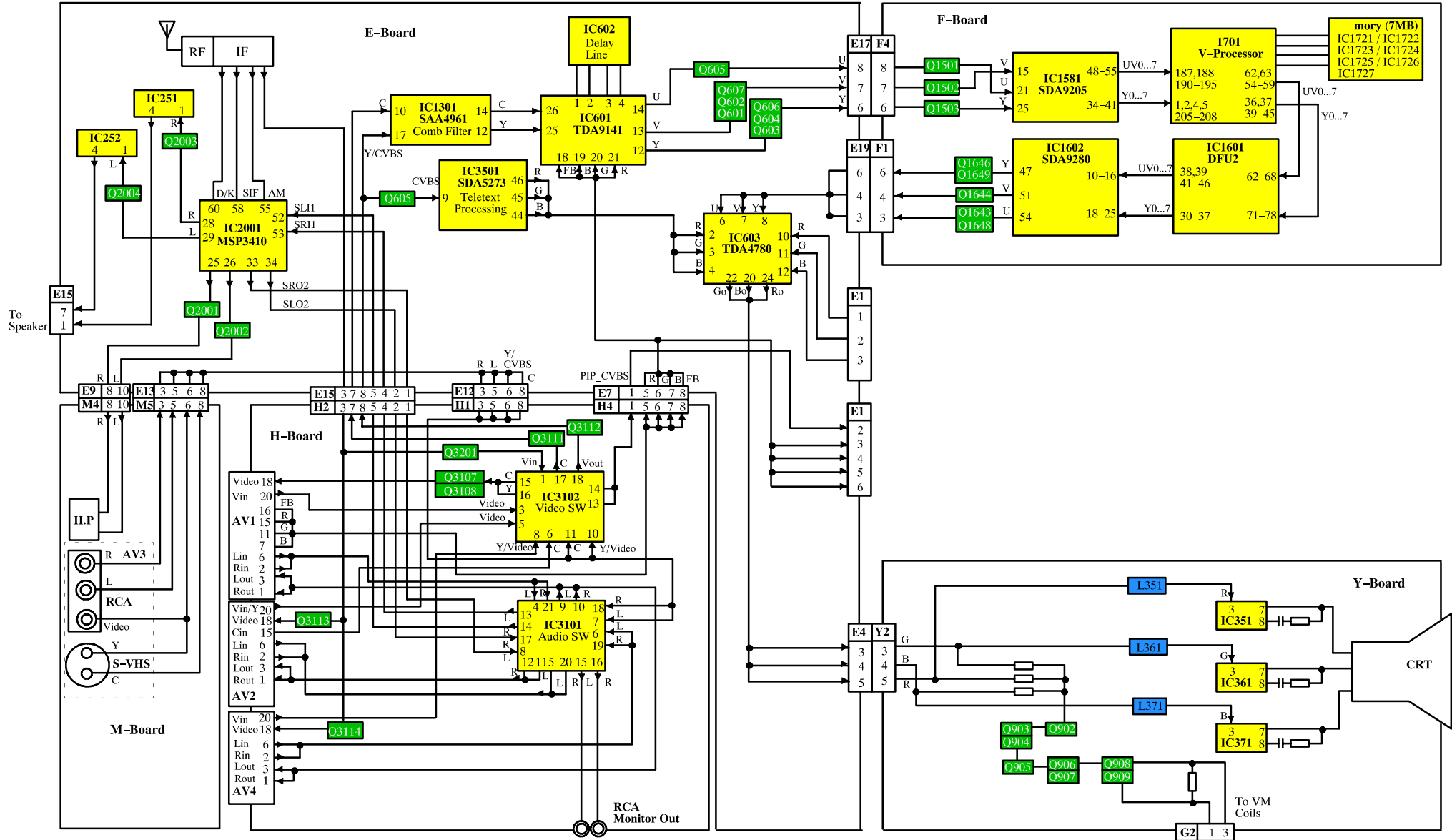


## WAVEFORM PATTERN TABLE

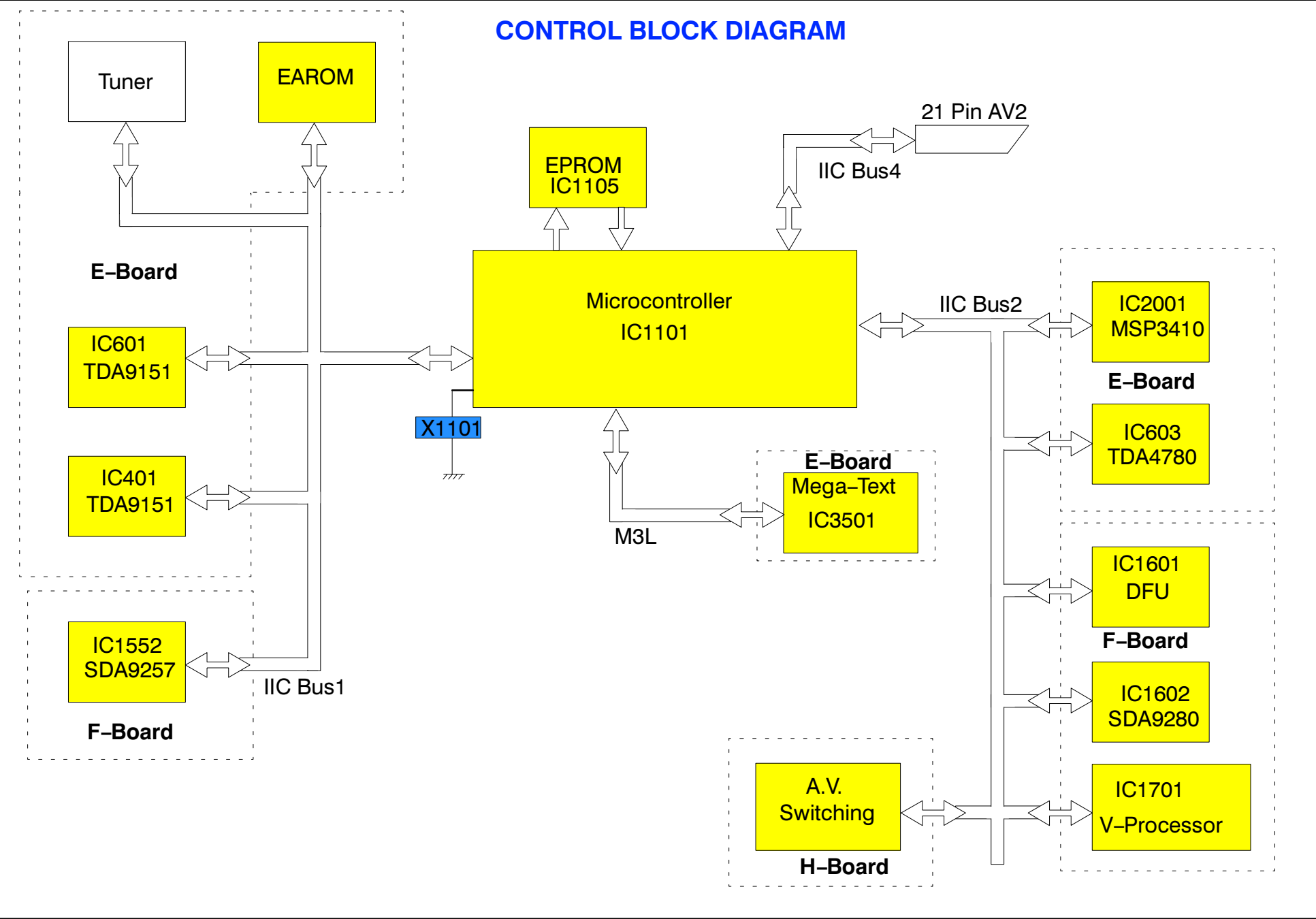
**NOTE:** All waveforms have been taken using a standard colour bar pattern.

<p><b>RED DRIVE</b> TPY1</p>  <p>32µS 130V</p>	<p><b>GREEN DRIVE</b> TPY2</p>  <p>32µS 100V</p>	<p><b>BLUE DRIVE</b> TPY3</p>  <p>32µS 100V</p>
<p><b>RED OUTPUT</b> IC 603 PIN 24</p>  <p>32µS 2.8V</p>	<p><b>GREEN OUTPUT</b> IC 603 PIN 22</p>  <p>32µS 2.7V</p>	<p><b>BLUE OUTPUT</b> IC 603 PIN 20</p>  <p>32µS 2.8V</p>
<p><b>HORIZONTAL SYNC</b> IC 3501 PIN 4</p>  <p>32µS 2.5V</p>	<p><b>VERTICAL SYNC</b> IC 3501 PIN 3</p>  <p>10mS 4.2V</p>	<p><b>VERT OUTPUT IC (INPUT)</b> IC 451 PIN 1</p>  <p>10mS 1.2V</p>
<p><b>LUMINANCE IN</b> IC601 PIN 26</p>  <p>64µS 1V</p>	<p><b>CHROMINANCE IN</b> IC601 PIN 25</p>  <p>64µS 0.6V</p>	<p><b>VERTICAL OUTPUT (DRIVE)</b> IC 451 PIN 9</p>  <p>10mS 40V</p>
<p><b>HORIZONTAL OUTPUT</b> IC401 PIN 20</p>  <p>32µS 3.8V</p>		

# VIDEO AND AUDIO SIGNAL PROCESSING BLOCK DIAGRAM



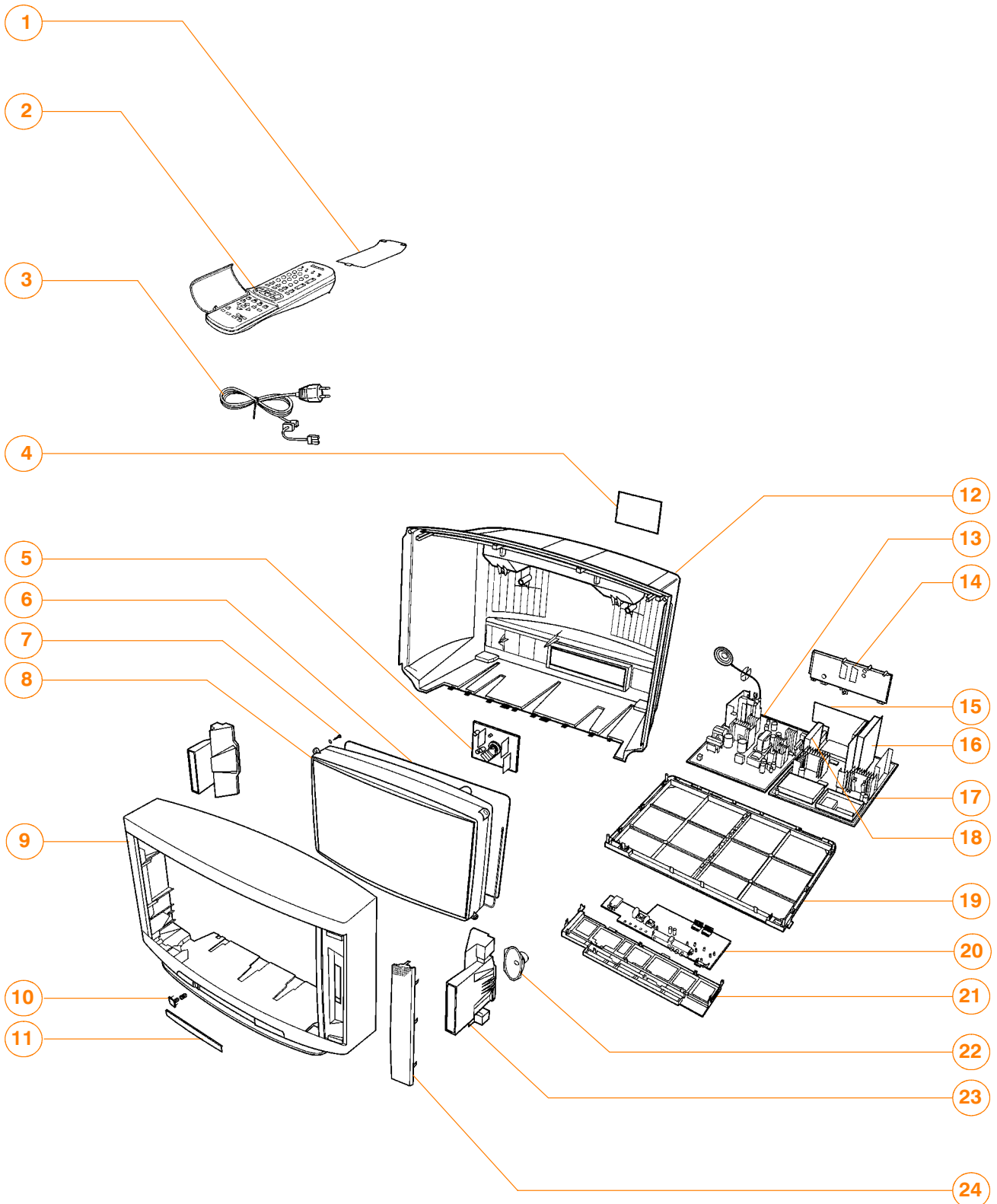
# CONTROL BLOCK DIAGRAM



## PARTS LOCATION

### NOTE :

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



## REPLACEMENT PARTS LIST

### Important Safety Notice

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

### COMMON PARTS FOR MODELS TX-29AD70F/P AND TX-25AD70F/P

Ref No.	Part No.	Description		Ref No.	Part No.	Description
<b>MISCELLANEOUS COMPONENTS</b>						
1)	UR51EC780	BATTERY COVER (REMOTE)		IC601	TDA9143-N1	COLOUR DECODER
2)	EUR51923	REMOTE CONTROL		IC602	TDA4665-V4	DELAY LINE
3)	TSX8E0020	POWER CORD	▲	IC603	TDA4780/V4	RGB VIDEO PROCESSOR
4)	*****	REFER TO DIFFERENCE LIST		IC801	AN8029	POWER SUPPLY
5)	*****	REFER TO DIFFERENCE LIST		IC845	SE140N	ERROR AMPLIFIER
6)	*****	REFER TO DIFFERENCE LIST		IC851	TL431ACLPM	REGULATOR
7)	*****	REFER TO DIFFERENCE LIST		IC852	TL431ACLPM	REGULATOR
8)	*****	REFER TO DIFFERENCE LIST		IC1051	RPM-637CBRS1	LED RECEIVER
9)	*****	REFER TO DIFFERENCE LIST		IC1101	SDA30C164-2	MICRO PROCESSOR
10)	TBX8E033	POWER BUTTON		IC1102	S-80745AL-Z	RESET
11)	TKP8E1149	LID		IC1103	MN1280R	RESET
12)	*****	REFER TO DIFFERENCE LIST		IC1301	SAA4961	COMB FILTER
13)	*****	REFER TO DIFFERENCE LIST		IC1551	SN74F04DR	CLOCK
14)	TKP8E1154	AV COVER		IC1552	SDA9257	CLOCK GENERATOR
15)	TNPA0293AB	H P.C.B.	▲	IC1581	SDA9205-2GEG	A/D CONVERTER
16)	TNPA0294AD	F P.C.B.	▲	IC1601	UPD93213GF	DFU
17)	*****	REFER TO DIFFERENCE LIST		IC1602	SDA9280B22GE	VIDEO PROCESSOR
18)	TNPA0317AA	B P.C.B.	▲	IC1701	MB87D202A	VIDEO PROCESSOR
19)	TMX8E014	CHASSIS FRAME		IC1721	SDA9251-2XGE	RAM
20)	TNPA0348AD	M P.C.B.	▲	IC1722	SDA9251-2XGE	RAM
21)	TMW8E023	CONTROL BRACKET		IC1723	SDA9251-2XGE	RAM
22)	EAGG1218E2	SPEAKER		IC1724	SDA9251-2XGE	RAM
23)	TKK8E026	SPEAKER REFLECTOR		IC1725	SDA9251-2XGE	RAM
24)	*****	REFER TO DIFFERENCE LIST		IC1726	SDA9251-2XGE	RAM
	TBM8E1532-2	PRESET PANEL		IC1727	SDA9251-2XGE	RAM
	TBM8E1779	AV PANEL LABEL		IC2001	MSP3410DPPB4	AUDIO PROCESSOR
	TEK6940	LID CATCHER		IC3101	TEA6420	AUDIO SWITCH
	TKP8E1150	FRONT PANEL RIGHT		IC3102	TEA6415C	VIDEO SWITCH
	ENV57D03G3	TUNER	▲	IC3501	SDA5273S/134	MEGA TEXT
	TKP8E1161	FRONT PANEL LEFT		IC3502	M514256B70RS	DRAM
	TMW8E017	L.E.D.HOLDER		IC3801	AN7808LB	8V REGULATOR
	TMX8E015	PCB SUPPORT BRACKET		IC3803	AN7805LB	5V REGULATOR
	TQB8E2361N	ROMANIAN INST BOOK	▲	IC3804	AN7809FLB	9V REGULATOR
	TQB8E2361P	POLISH INST BOOK	▲	IC3805	AN78L08TA	8V REGULATOR
	TQB8E2361Q	HUNGARIAN INST BOOK	▲	<b>CAPACITORS</b>		
	TQB8E2361R	CZECH INST BOOK	▲	C002	ECUV1H102JCX	S.M.CAP 50V 1nF
	TQB8E2361U	ENGLISH INST BOOK	▲	C003	ECA1HM101GB	ELECT 50V 100µF
	TQA8E2045	SCHEMATIC BROADSHEET	▲	C004	ECUV1H102JCX	S.M.CAP 50V 1nF
	UM-3DJ-2P	BATTERY SET		C005	ECUV1H102JCX	S.M.CAP 50V 1nF
	TLT100K991R	COIL		C006	ECUV1H102JCX	S.M.CAP 50V 1nF
	31221212478	FIX CLIP		C007	ECUV1H102JCX	S.M.CAP 50V 1nF
	TES4537	SPRING		C009	ECA1HMR22GB	ELECT 50V 0.22µF
	F9-4-220	RELAY		C010	ECUV1H102K BX	S.M.CAP 50V 1nF
	832AG11D-ESL	I.C. SOCKET		C014	ECUV1H103ZFX	S.M.CAP 50V 10nF
	PCS-068A-1	68 PIN I.C. SOCKET		C015	ECUV1H390JCX	S.M.CAP 50V 39pF
	ERC12GK825	SOLID 0.5W 10% 8M2Ω		C016	ECUV1H390JCX	S.M.CAP 50V 39pF
	ERDS1TJ6R8	CARBON 0.5W 5% 6R8Ω		C017	ECA1CM470GB	ELECT 16V 47µF
<b>INTEGRATED CIRCUITS</b>				C019	ECUV1H561JCX	S.M.CAP 50V 560pF
IC101	TDA9814TV3	VIF		C020	ECUV1H103ZFX	S.M.CAP 50V 10nF
IC251	TDA2030AV	AUDIO AMPLIFIER		C022	ECUV1H103ZFX	S.M.CAP 50V 10nF
IC252	TDA2030AV	AUDIO AMPLIFIER		C023	ECUV1H681JCX	S.M.CAP 50V 680pF
IC351	TDA6111	RGB OUTPUT		C024	ECUV1H103ZFX	S.M.CAP 50V 10nF
IC361	TDA6111	RGB OUTPUT		C025	ECUV1H101JCX	S.M.CAP 50V 100pF
IC371	TDA6111	RGB OUTPUT		C026	ECUV1H681JCX	S.M.CAP 50V 680pF
IC401	TDA9151-B	DEFLECTION CONTROL		C101	ECUV1H104ZFX	S.M.CAP 50V 100nF
IC451	TDA8350Q/N5	VERTICAL OUTPUT		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	ECUV1H393K BX	S.M.CAP 50V 39nF

Ref No.	Part No.	Description	
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 33F
C257	ECA1HM100GB	ELECT	50V 10F
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 33µF
C264	ECA1HM100GB	ELECT	50V 10µF
C267	ECUV1H103ZFX	S.M.CAP	50V 10nF
C268	ECUV1H223ZFX	S.M.CAP	50V 22nF
C269	ECA1EM222GB	ELECT	25V 2.2µF
C270	ECA1EM222GB	ELECT	25V 2.2µF
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 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
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

Ref No.	Part No.	Description	
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 100F
C382	ECA0JM471GB	ELECT	6.3V 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 3.3µF
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 3.3µF
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	ECWH15H392J	FILM	1500V 3.9nF
C553	ECQP1104JZW	FILM	100V 0.10µF
C556	ECEA2CNR47SB	ELECT	160V R47µF
C557	ECKC2H331J	CERAMIC	500V 330pF
C558	ECA2EM330B	ELECT	250V 33µF
C559	ECKC2H101J	CERAMIC	500V 100pF
C560	ECA1EM332E	ELECT	25V 3.3µF
C561	ECKC2H561J	CERAMIC	500V 560pF
C562	ECA1JM330B	ELECT	63V 33µF
C563	TAC7A2D564JC	CERAMIC	0.56µF
C564	ECKC1H472J	CERAMIC	50V 4.7nF
C565	ECQP1823JZW	FILM	100V 82nF
C571	ECQV1H105JZ	FILM	50V 1µF
C572	ECWH15H472J	FILM	1500V 4700µF
C573	ECQF4153JZH	FILM	400V 15nF
C574	TAC1114Z684A	CERAMIC	0.68µF
C581	ECQF4123JZH	FILM	400V 12nF
C584	ECKC3D221JB	CERAMIC	2KV 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
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

Ref No.	Part No.	Description	
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	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	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	ECQB1H562K	FILM	50V 5.6nF
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 2200pF
C822	ECKC3D102J	CERAMIC	2KV 1nF
C823	EEUFA1V221B	CERAMIC	35V 220pF
C824	ECQB1H121KF3	FILM	50V 120pF
C826	ECQB1H473K	FILM	50V 47nF
C827	ECKCNS332J	CERAMIC	1K2V 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
C848	ECKC2H471J	CERAMIC	500V 470pF
C849	ECKC2H471J	CERAMIC	500V 470pF
C851	ECQM1H104J	FILM	50V 100nF
C852	ECKC3D102J	CERAMIC	2KV 1nF
C853	ECA1CM471GB	ELECT	16V 470µF

Ref No.	Part No.	Description	
C854	ECA1EM471GB	ELECT	25V 470µF
C855	ECEA1HU102	ELECT	50V 1000µF
C856	ECEA1HU471	ELECT	50V 470µF
C857	ECA1EM471GB	ELECT	25V 470µF
C858	ECOS2EA271BB	ELECT	250V 270pF
C859	ECKC2H471J	CERAMIC	500V 470pF
C861	ECOS2EA221AB	ELECT	250V 220µF
C863	ECA1EM222GB	ELECT	25V 2.2µF
C864	ECA0JM102GB	ELECT	6.3V 1µF
C866	ECA1HM101GB	ELECT	50V 100µF
C867	ECA1CM222GB	ELECT	16V 2200µF
C868	ECA1CM100GB	ELECT	16V 10µF
C871	ECA0JM102GB	ELECT	6.3V 1µF
C872	ECA1CM222GB	ELECT	16V 2200µF
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	ECCR2H680J	CERAMIC	500V 68pF
C1051	ECKC1H101J	CERAMIC	50V 100pF
C1052	ECA1VM470B	ELECT	35V 47µF
C1053	ECKC1H103JB	CERAMIC	50V 10nF
C1102	ECUV1H104ZFX	S.M.CAP	50V 100nF
C1103	ECUV1H104ZFX	S.M.CAP	50V 100nF
C1104	ECA0JM101G	ELECT	6.3V 100µF
C1105	ECUV1H330JCX	S.M.CAP	50V 33pF
C1106	ECUV1H330JCX	S.M.CAP	50V 33pF
C1107	ECUV1H391JCX	S.M.CAP	50V 390pF
C1108	ECUV1H103ZFX	S.M.CAP	50V 10nF
C1109	ECUV1H472KBX	S.M.CAP	50V 4.7nF
C1110	ECUV1H104ZFX	S.M.CAP	50V 100nF
C1111	ECUV1H101JCX	S.M.CAP	50V 100pF
C1112	ECUV1H103ZFX	S.M.CAP	50V 10nF
C1114	ECUV1H102JCX	S.M.CAP	50V 1nF
C1115	ECUV1H102JCX	S.M.CAP	50V 1nF
C1126	ECUV1H104ZFX	S.M.CAP	50V 100nF
C1127	ECUV1H104ZFX	S.M.CAP	50V 100nF
C1129	ECA1AM470GB	ELECT	10V 47µF
C1130	ECUV1H104ZFX	S.M.CAP	50V 100nF
C1131	ECUV1H101JCX	S.M.CAP	50V 100pF
C1133	ECUV1C184KBX	S.M.CAP	16V 0.18µF
C1134	ECUV1H103KBX	S.M.CAP	50V 10nF
C1135	ECUV1H103ZFX	S.M.CAP	50V 10nF
C1136	ECUV1H101JCX	S.M.CAP	50V 100pF
C1137	ECUV1H102KBX	S.M.CAP	50V 1nF
C1138	ECUV1H104ZFX	S.M.CAP	50V 100nF
C1302	ECUV1H150JCX	S.M.CAP	50V 15pF
C1304	ECUV1H103ZFX	S.M.CAP	50V 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

Ref No.	Part No.	Description		
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	ECUV1H103ZFX	S.M.CAP	50V	10nF
C1326	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1327	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1508	ECUV1H103KBX	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	1µF
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	ECUV1H103KBX	S.M.CAP	50V	10nF
C1560	ECUV1H103KBX	S.M.CAP	50V	10nF
C1561	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1562	ECA0JM331GB	ELECT	6.3V	330µF
C1564	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1575	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1576	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1577	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

Ref No.	Part No.	Description		
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
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
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
C2039	ECUV1H070DCX	S.M.CAP	50V	7pF
C2040	ECUV1H560JCX	S.M.CAP	50V	56pF
C2041	ECUV1H560JCX	S.M.CAP	50V	56pF



Ref No.	Part No.	Description		
C2042	ECUV1H104ZFX	S.M.CAP	50V	100nF
C2043	ECA1CM100GB	ELECT	16V	10µF
C2044	ECUV1H010CCX	S.M.CAP	50V	1pF
C2045	ECUV1H010CCX	S.M.CAP	50V	1pF
C2050	ECUV1H223ZFX	S.M.CAP	50V	22nF
C2051	ECUV1H223ZFX	S.M.CAP	50V	22nF
C2052	ECUV1H103ZFX	S.M.CAP	50V	10nF
C2053	ECUV1H103ZFX	S.M.CAP	50V	10nF
C2054	ECA1CM331B	ELECT	16V	330µF
C2055	ECA1CM331B	ELECT	16V	330µF
C2058	ECUV1H683ZFX	S.M.CAP	50V	68nF
C2059	ECUV1H102KBX	S.M.CAP	50V	1nF
C2060	ECUV1H102KBX	S.M.CAP	50V	1nF
C2351	ECA1CM471GB	ELECT	16V	470µF
C2352	ECA1CM471GB	ELECT	16V	470µF
C2353	ECA1HM473GB	ELECT	50V	4.7µF
C2354	ECKC1H103JB	CERAMIC	50V	10nF
C2355	ECA1HMR33GB	ELECT	50V	0.33µF
C2356	ECKC1H103JB	CERAMIC	50V	10nF
C2360	ECKC1H103JB	CERAMIC	50V	10nF
C2361	ECA1CM471GB	ELECT	16V	470µF
C2362	ECA1CM471GB	ELECT	16V	470µF
C2363	ECA1HM4R7GB	ELECT	50V	4.7µF
C2364	ECKC1H103JB	CERAMIC	50V	10nF
C2365	ECA1HMR33GB	ELECT	50V	0.33µF
C2366	ECKC1H103JB	CERAMIC	50V	10nF
C3001	ECKC1H561J	CERAMIC	50V	560pF
C3002	ECKC1H561J	CERAMIC	50V	560pF
C3005	ECCR1H151J	CERAMIC	50V	150pF
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
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	470µF
C3163	ECA1HMR47GB	ELECT	50V	0.47µF
C3165	ECA1HM470GB	ELECT	50V	47µF
C3169	ECUV1H102JCX	S.M.CAP	50V	1nF
C3170	ECUV1H561JCX	S.M.CAP	50V	560pF
C3172	ECUV1H561JCX	S.M.CAP	50V	560pF
C3173	ECA1HMR47GB	ELECT	50V	0.47µF
C3174	ECUV1H561JCX	S.M.CAP	50V	560pF

Ref No.	Part No.	Description			
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	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	0.22µF	
C3510	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C3511	ECA1HM101GB	ELECT	50V	100µF	
C3512	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3514	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3515	ECA0JM331GB	ELECT	6.3V	330µF	
C3516	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3521	ECA1HM101GB	ELECT	50V	100µF	
C3522	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3801	ECA1HM010GB	ELECT	50V	1µF	
C3802	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3803	ECA1CM471GB	ELECT	16V	470µF	
C3807	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3808	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3809	ECA0JM101G	ELECT	6.3V	100µF	
C3810	ECUV1H103KBX	S.M.CAP	50V	10nF	
C3812	ECA1CM221GB	ELECT	16V	220µF	

## DIODES

D001	MA4020	DIODE
D002	MA4020	DIODE
D103	BA582	DIODE
D104	BA582	DIODE
D251	MA165TA5	DIODE 1SS133T-77
D252	MA165TA5	DIODE 1SS133T-77
D253	MA165TA5	DIODE 1SS133T-77
D254	MA165TA5	DIODE 1SS133T-77
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	MA165TA5	DIODE 1SS133T-77
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
D557	ERC91-02L9	DIODE
D558	AU02V0	DIODE
D559	MTZJT-7736A	DIODE

Ref No.	Part No.	Description
D560	1SS252T-77	DIODE
D561	1SS254T-77	DIODE
D563	RH3GLF102	DIODE
D571	FMV-3GULF027	DIODE
D574	1SS252T-77	DIODE
D575	1SS252T-77	DIODE
D602	MA165TA5	DIODE 1SS133T-77
D603	MA165TA5	DIODE 1SS133T-77
D604	MA4062	DIODE
D706	MA165TA5	DIODE 1SS133T-77
D707	MA188TA	DIODE
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
D848	ERB32-02E	DIODE RU30LFS1
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 OR PMLL4148
D2005	MA723TA5	DIODE
D2006	MA723TA5	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 OR PMLL4148
D3351	1SS254T-77	DIODE
D3501	MA4030	DIODE

Ref No.	Part No.	Description
D3801	MA4043	DIODE
D3802	MTZJT-778.2A	DIODE
D3803	ERA81004V3	DIODE
D3805	MA4091	DIODE
D3806	MA165TA5	DIODE 1SS133T-77
D3807	MA165TA5	DIODE 1SS133T-77
<b>FUSES</b>		
F532	TR5-T1250	FUSE <span style="float:right">▲</span>
F801	XBA2C50TH15	FUSE
F845	TR5-T2000	FUSE <span style="float:right">▲</span>
F846	TR5-T1250	FUSE <span style="float:right">▲</span>
F8011	EYF52BC	FUSE HOLDER
F8012	EYF52BC	FUSE HOLDER
<b>TERMINALS AND LINKS</b>		
JA2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JA5	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JA6	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JA7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JA8	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JK3001	TJB16656	A.V.TERMINAL
JSB3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE010	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE011	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE012	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE015	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE022	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE023	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE024	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE025	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
JSE028	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω
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
JSE066	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

Ref No.	Part No.	Description
<b>COILS</b>		
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	EXCELD35V	COIL
L353	TLT150K991R	COIL
L361	SDL5000	DELAY LINE
L362	EXCELD35V	COIL
L363	TLT150K991R	COIL
L371	SDL5000	DELAY LINE
L372	EXCELD35V	COIL
L373	TLT150K991R	COIL
L381	TLT220K991R	COIL
L401	EXCELD35V	COIL
L402	EXCELD35V	COIL
L451	EXCELD35V	COIL
L552	EXCELSA35T	COIL
L553	EXCELSA35T	COIL
L554	EXCELD35V	COIL
L555	EXCELD35V	COIL
L572	ELHKL025B	COIL
L573	ELHKL026B	COIL
L575	ELC18B271E	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	EXCELD35V	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

Ref No.	Part No.	Description
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
L2003	EXCELD35V	COIL
L2004	TLT068K991R	COIL
L2005	TLT068K991R	COIL
L2351	ELEBR6R8KA	COIL
L2361	ELEBR6R8KA	COIL
L3001	ELEBR6R8KA	COIL
L3002	ELEBR6R8KA	COIL
L3003	ELEBR470KA	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
<b>TRANSISTORS</b>		
Q008	BC847B	TRANSISTOR OR 2SD601ATX
Q101	BC847B	TRANSISTOR OR 2SD601ATX
Q102	BC847B	TRANSISTOR OR 2SD601ATX
Q103	BC847B	TRANSISTOR OR 2SD601ATX
Q104	BC847B	TRANSISTOR OR 2SD601ATX
Q105	BC847B	TRANSISTOR OR 2SD601ATX
Q106	BF799E6327	CHIP TRANSISTOR
Q107	BC847B	TRANSISTOR OR 2SD601ATX
Q108	BC847B	TRANSISTOR OR 2SD601ATX
Q109	BC860B	TRANSISTOR
Q251	BC847B	TRANSISTOR OR 2SD601ATX
Q252	BC847B	TRANSISTOR OR 2SD601ATX
Q401	BC847B	TRANSISTOR OR 2SD601ATX
Q502	2SC2925STA	TRANSISTOR
Q531	BC547B	TRANSISTOR
Q532	BC547B	TRANSISTOR
Q533	BC547B	TRANSISTOR
Q535	BC547B	TRANSISTOR
Q551	BC547B	TRANSISTOR
Q552	2SC5144LBMA1	TRANSISTOR

Ref No.	Part No.	Description
Q553	2SC1473-RN	TRANSISTOR
Q554	2SC1473-RN	TRANSISTOR
Q573	BC557B	TRANSISTOR
Q574	2SD1265AOPLB	TRANSISTOR
Q601	BC847B	TRANSISTOR OR 2SD601ATX
Q602	BC857B	TRANSISTOR OR 2SB709ATX
Q603	BC847B	TRANSISTOR OR 2SD601ATX
Q604	BC857B	TRANSISTOR OR 2SB709ATX
Q605	BC857B	TRANSISTOR OR 2SB709ATX
Q607	BC847B	TRANSISTOR OR 2SD601ATX
Q608	BC847B	TRANSISTOR OR 2SD601ATX
Q609	BC847B	TRANSISTOR OR 2SD601ATX
Q610	BC847B	TRANSISTOR OR 2SD601ATX
Q611	BC847B	TRANSISTOR OR 2SD601ATX
Q612	BC847B	TRANSISTOR OR 2SD601ATX
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 OR 2SD601ATX
Q902	BC847B	TRANSISTOR OR 2SD601ATX
Q903	BC847B	TRANSISTOR OR 2SD601ATX
Q904	BC857B	TRANSISTOR OR 2SB709ATX
Q905	BC847B	TRANSISTOR OR 2SD601ATX
Q906	BC847B	TRANSISTOR OR 2SD601ATX
Q907	BC857B	TRANSISTOR OR 2SB709ATX
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1052	BC557B	TRANSISTOR
Q1101	BC847B	TRANSISTOR OR 2SD601ATX
Q1102	BC847B	TRANSISTOR OR 2SD601ATX
Q1103	BC847B	TRANSISTOR OR 2SD601ATX
Q1108	BC847B	TRANSISTOR OR 2SD601ATX
Q1112	2SC3757QRTX	TRANSISTOR
Q1191	BC847B	TRANSISTOR OR 2SD601ATX
Q1301	BC847B	TRANSISTOR OR 2SD601ATX
Q1303	BC847B	TRANSISTOR OR 2SD601ATX
Q1304	BC847B	TRANSISTOR OR 2SD601ATX
Q1501	BC847B	TRANSISTOR OR 2SD601ATX
Q1502	BC847B	TRANSISTOR OR 2SD601ATX
Q1503	BC847B	TRANSISTOR OR 2SD601ATX
Q1575	BC847B	TRANSISTOR OR 2SD601ATX
Q1642	BC847B	TRANSISTOR OR 2SD601ATX
Q1643	BC847B	TRANSISTOR OR 2SD601ATX
Q1644	BC857B	TRANSISTOR OR 2SB709ATX
Q1647	BC847B	TRANSISTOR OR 2SD601ATX
Q1648	BC857B	TRANSISTOR OR 2SB709ATX
Q1649	BC857B	TRANSISTOR OR 2SB709ATX
Q2001	BC860B	TRANSISTOR
Q2002	BC860B	TRANSISTOR
Q2003	BC860B	TRANSISTOR
Q2004	BC860B	TRANSISTOR
Q2006	BC857B	TRANSISTOR OR 2SB709ATX
Q2007	BC847B	TRANSISTOR OR 2SD601ATX
Q2351	BC547B	TRANSISTOR
Q2352	BC547B	TRANSISTOR
Q2353	BC557B	TRANSISTOR
Q2361	BC547B	TRANSISTOR
Q2362	BC547B	TRANSISTOR
Q2363	BC557B	TRANSISTOR
Q3101	BC847B	TRANSISTOR OR 2SD601ATX
Q3102	BC847B	TRANSISTOR OR 2SD601ATX
Q3105	BC847B	TRANSISTOR OR 2SD601ATX
Q3106	BC847B	TRANSISTOR OR 2SD601ATX
Q3107	BC857B	TRANSISTOR OR 2SB709ATX

Ref No.	Part No.	Description
Q3108	BC847B	TRANSISTOR OR 2SD601ATX
Q3113	BC847B	TRANSISTOR OR 2SD601ATX
Q3115	BC857B	TRANSISTOR OR 2SB709ATX
Q3201	BC847B	TRANSISTOR OR 2SD601ATX
Q3351	BC847B	TRANSISTOR OR 2SD601ATX
Q3352	BC857B	TRANSISTOR OR 2SB709ATX
Q3501	BC847B	TRANSISTOR OR 2SD601ATX
Q3502	BC847B	TRANSISTOR OR 2SD601ATX
Q3503	2SC3130TX	TRANSISTOR
Q3801	2SD1474PLB	TRANSISTOR

## RESISTOR

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





Ref No.	Part No.	Description
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
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

Ref No.	Part No.	Description
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
R1625	ERJ6GEYJ271	S.M.CARB 0.1W 5% 270Ω
R1626	ERJ6GEYJ391	S.M.CARB 0.1W 5% 390Ω
R1627	ERJ6GEYJ622	S.M.CARB 0.125W 5% 6K2Ω
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

Ref No.	Part No.	Description
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
R2044	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R2045	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R2351	ERQ14AJW100	METAL 0.25W 5% 10Ω Δ
R2352	ERD25TJ101	CARBON 0.25W 5% 100Ω
R2353	ERD25TJ101	CARBON 0.25W 5% 100Ω
R2354	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R2355	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2356	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2357	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2358	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2359	ERD25TJ271	CARBON 0.25W 5% 270Ω
R2360	ERD25TJ183	CARBON 0.25W 5% 18KΩ
R2361	ERD25TJ100	CARBON 0.25W 5% 10Ω
R2371	ERQ14AJW100	METAL 0.25W 5% 10Ω Δ
R2372	ERD25TJ101	CARBON 0.25W 5% 100Ω
R2373	ERD25TJ101	CARBON 0.25W 5% 100Ω
R2374	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R2375	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2376	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2377	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2378	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R2379	ERD25TJ271	CARBON 0.25W 5% 270Ω
R2380	ERD25TJ183	CARBON 0.25W 5% 18KΩ
R2381	ERD25TJ100	CARBON 0.25W 5% 10Ω
R3006	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R3101	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3102	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3107	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R3108	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R3109	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680Ω
R3110	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680Ω
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

Ref No.	Part No.	Description
R3137	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R3138	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R3139	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3140	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3141	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3142	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3143	ERJ6GEYJ333	S.M.CARB 0.1W 5% 33KΩ
R3144	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3145	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3146	ERJ6GEYJ333	S.M.CARB 0.1W 5% 33KΩ
R3147	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R3148	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R3149	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R3150	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R3151	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω
R3152	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3153	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3154	ERD2FCVVG100T	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	ERD2FCVVG100T	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	ERD2FCVVG100T	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	ERD2FCVVG100T	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



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

Ref No.	Part No.	Description	
<b>SWITCHES</b>			
S801	ESB91232A	SWITCH	▲
S1051	EVQ23405R	SWITCH	
S1052	EVQ23405R	SWITCH	
S1053	EVQ23405R	SWITCH	
S1054	EVQ23405R	SWITCH	
S1055	EVQ23405R	SWITCH	
<b>TRANSFORMERS</b>			
T501	TLHA003	TRANSFORMER	
T801	ETP35KAN615U	TRANSFORMER	▲
T802	ETS49AH137ND	TRANSFORMER	
T803	ETQ19K55AY	TRANSFORMER	
<b>FILTERS</b>			
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 – 29AD70F/P**


Ref No.	Part No.	Description	
<b>MISCELLANEOUS COMPONENTS</b>			
4)	TQF8E2517	MODEL LABEL	
5)	TNPA0292AL	Y PC.B.	△
6)	TLK8E05135	DEGAUSS COIL	△
7)	THT1009R	CRT FIXING SCREW	
8)	A68EHM69X73T	CRT	△
9)	TKY8E081	CABINET	△
12)	TKU8E00270	REAR COVER	△
13)	TNPA0295AQ	D PC.B.	△
17)	TNPH0063AV	E PC.B.	△
24)	TKP8E1144	SPEAKER NET	
	TBM8E1728	PANASONIC BADGE	
	TPC8E4647	OUTER CARTON	
	TPD8E617	CUSHION TOP	
	TPD8E618	CUSHION BOTTOM	
<b>CAPACITORS</b>			
C555	ECWH15H432J	FILM 1500V 4300µF	
C575	TAC1114Z564A	CERAMIC 100V 0.56µF	
<b>INTEGRATED CIRCUITS</b>			
IC1104	X24C0302TW	EAROM	
IC1105	27C2001-C16	EPROM	
<b>COILS</b>			
L571	ELC18B271E	COIL	
<b>RESISTOR</b>			
R370	ERQ1CKPR33S	FUSIBLE 1W 5% R33Ω	△
R940	T3A205016	WIRE LINK	
R941	T3A205016	WIRE LINK	
<b>TRANSFORMERS</b>			
T551	ZTFH65015A	F.B.T.	△

**DIFFERENCES FOR MODEL TX – 25AD70F/P**







Ref No.	Part No.	Description	
<b>MISCELLANEOUS COMPONENTS</b>			
4)	TQF8E2497	MODEL LABEL	
5)	TNPA0292AQ	Y PC.B.	△
6)	TLK8E05120	DEGAUSS COIL	△
7)	THE492-4	CRT FIXING SCREW	
8)	A59ESF002X43	CRT	△
9)	TKY8E100	CABINET	△
12)	TKU8E00280	BACK COVER	△
13)	TNPA0295AV	D PC.B.	△
17)	TNPH0063BR	E PC.B.	△
24)	TKP8E1146	SPEAKER NET	
	TBM8E1726	PANASONIC BADGE	
	TPC8E4649	OUTER CARTON	
	TPD8E619	CUSHION TOP	
	TPD8E626	CUSHION BOTTOM	
<b>CAPACITORS</b>			
C555	ECWH15H472J	FILM 1500V 4700µF	
C575	TAC1114Z684A	CERAMIC 100V 0.68µF	
<b>INTEGRATED CIRCUITS</b>			
IC1104	X24C0301TX	EAROM	
IC1105	27C2001C14AG	EPROM	
<b>COILS</b>			
L571	ELC18B331E	COIL	
<b>RESISTOR</b>			
R370	ERQ1CJP1R2	FUSIBLE 1W 5% 1R2Ω	△
R940	ERD25TJ3R3	CARBON 0.25W 5% 3R3Ω	
R941	ERD25TJ3R3	CARBON 0.25W 5% 3R3Ω	
<b>TRANSFORMERS</b>			
T551	ZTFH65011A	F.B.T.	△

## SCHEMATIC DIAGRAM FOR MODELS TX-29AD70F/P TX-25AD70F/P (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 as follows:  
Unit of resistance is OHM ( $\Omega$ ) (K=1,000, M=1,000,000).
2. **CAPACITORS**  
All capacitors are ceramic 50V, unless marked as follows:  
Unit of capacitance is  $\mu$ F, unless otherwise stated.
3. **COIL**  
Unit of inductance is  $\mu$ H, unless otherwise stated.
4. Components marked 'L' on the schematic diagram shows leadless parts.
5. **TEST POINT**  
 : Test Point position
6. **EARTH SYMBOL**  
 : Chassis Earth (Cold)     : Line Earth (Hot)
7. **VOLTAGE MEASUREMENT**  
Voltage is measured by a DC voltmeter.  
Measurement conditions are as follows:  
Power source                      AC 220V-240V, 50Hz  
Receiving Signal                Colour Bar signal (RF)  
All customer controls            Maximum position
8.  : Indicates the Video signal path  
 : Indicates the Audio signal path  
 : Indicates the Vertical/Horizontal signal path
9. This schematic diagram is the latest at the time of printing and is subject to change without notice.

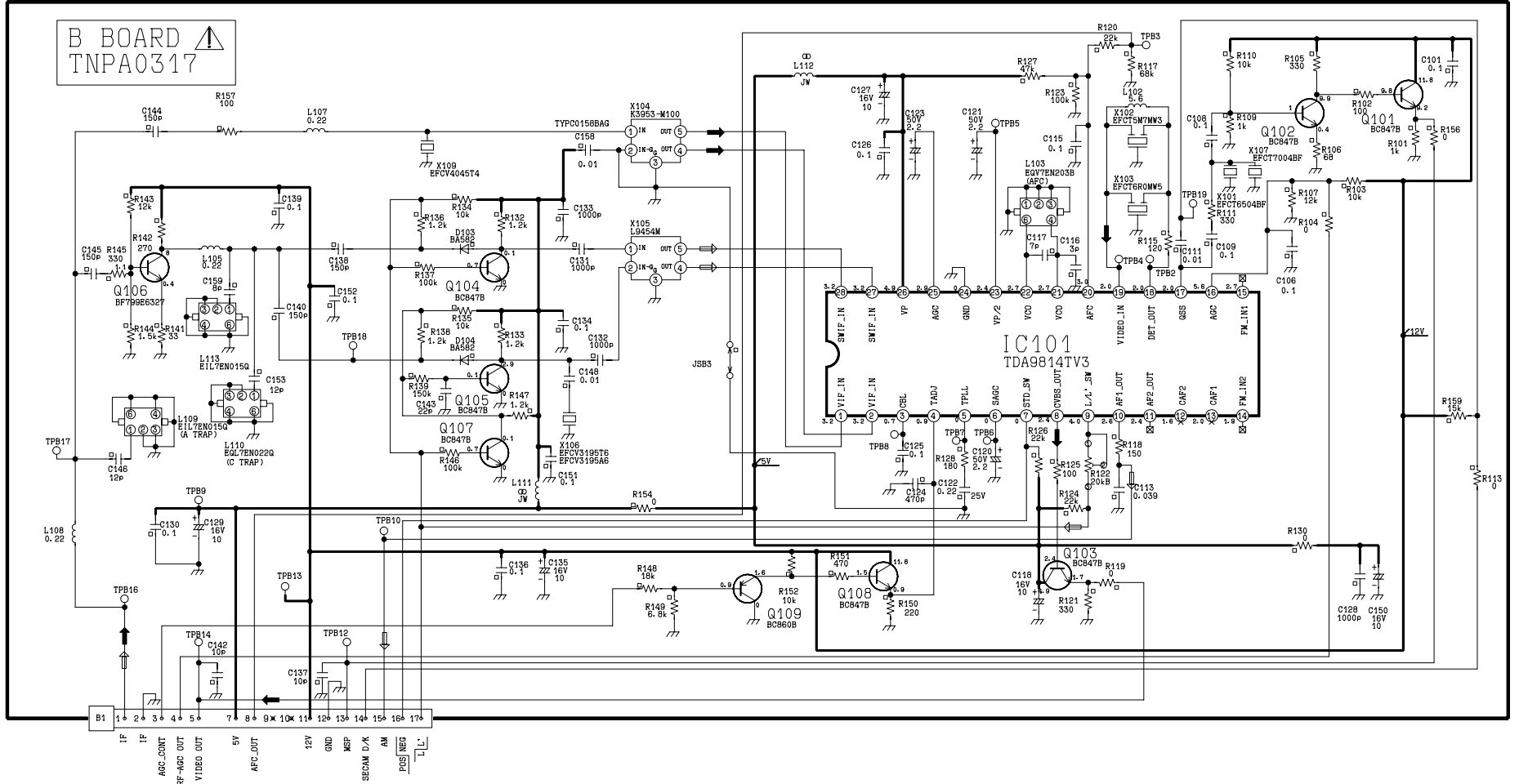
### Remarks

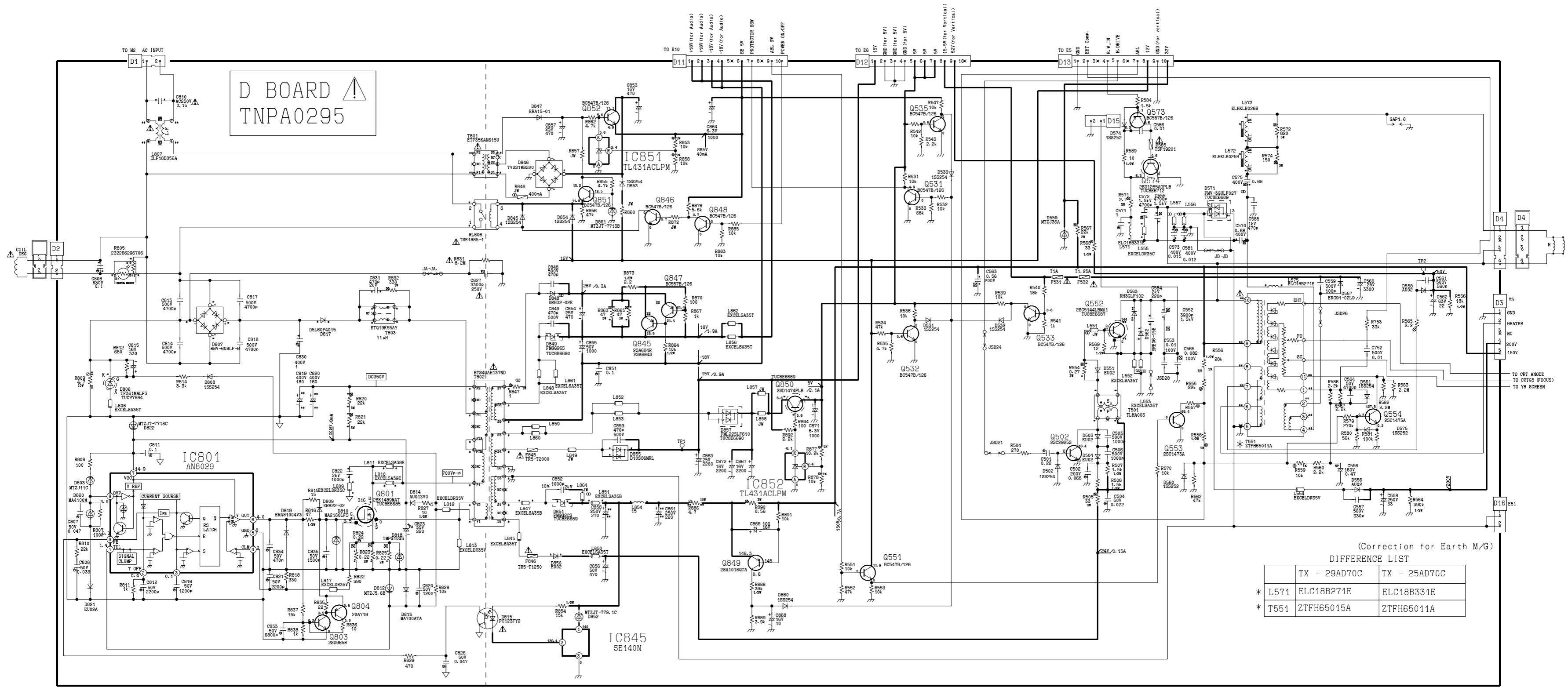
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD. Take the following precautions:

### Precautions

- 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.

B BOARD  
TNPA0317

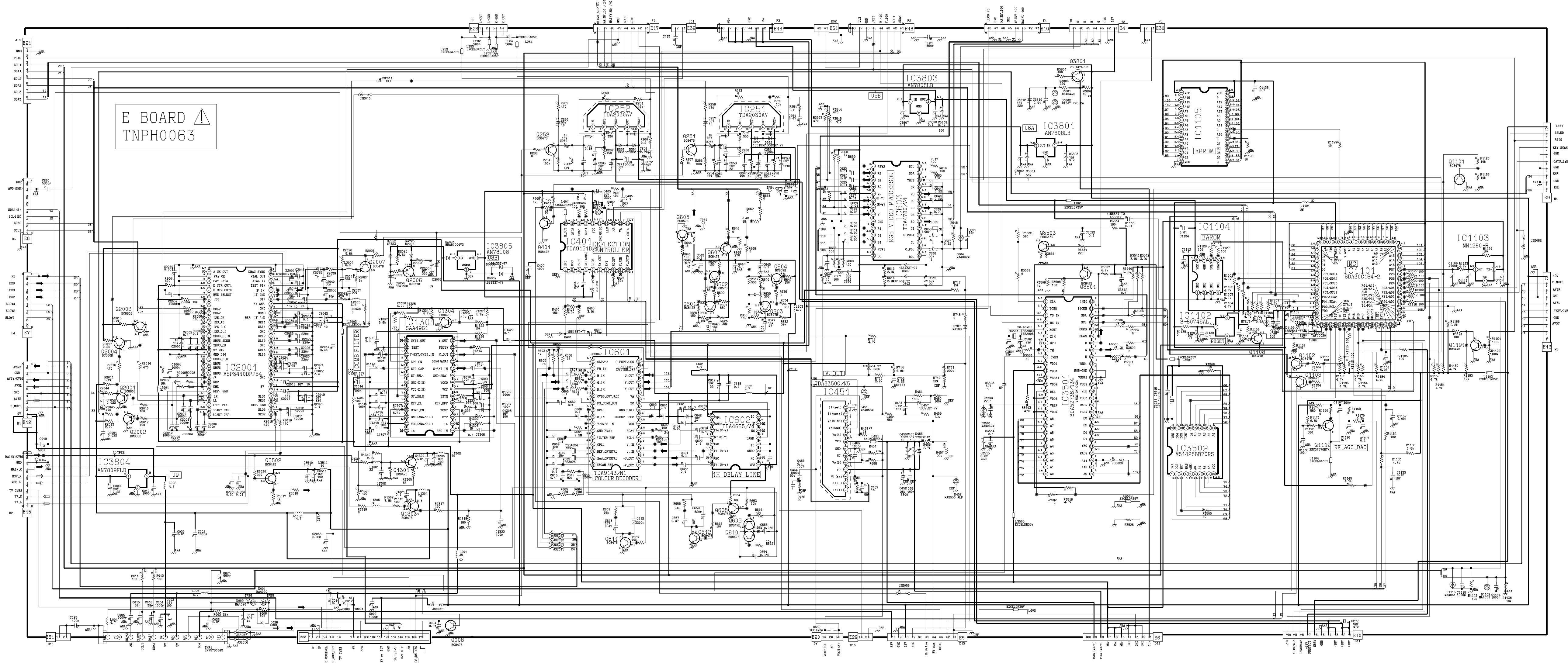




D BOARD  
TNPA0295

(Correction for Earth M/G)  
DIFFERENCE LIST

	TX - 29AD70C	TX - 25AD70C
* L571	ELC18B271E	ELC18B331E
* T551	ZTFH65015A	ZTFH65011A



E BOARD  
TNP0063

IC2001  
MSP410PPB4

IC251  
TDA2030AV

IC3803  
AN7805LB

IC3801  
AN7806LB

IC1105  
EPROM

IC3805  
AN7810LB

IC401  
TDA9151B

IC603  
TDA4780/74

IC1104  
E2PROM

IC1101  
SDA30C164-2

IC1103  
MN1280

IC1301  
5AA49B1

IC601  
TDA9143A1

IC602  
TDA4665

IC451  
TDA9350Q/N5

IC3502  
M514256B70RS

IC1102  
S-80745AL

IC1106  
RF\_AGC\_DAC

Q2003

Q2004

Q2001

Q2002

Q2007

Q2006

Q605

Q604

Q602

Q601

Q603

Q604

Q602

Q601

Q603

Q604

Q602

Q601

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Q602

Q601

Q603

Q604

Q602

Q601

Q3502

Q3501

Q3500

Q3503

Q3504

Q3505

Q3506

Q3507

Q3508

Q3509

Q3510

Q3511

Q3512

Q3513

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Q3522

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Q3525

Q3526

Q3527

Q3528

Q1101

Q1102

Q1103

Q1104

Q1105

Q1106

Q1107

Q1108

Q1109

Q1110

Q1111

Q1112

Q1113

Q1114

Q1115

Q1116

Q1117

Q1118

Q1119

Q1120

Q1121

Q1122

Q1123

Q1124

Q1125

Q1126

Q1127

Q1128

Q1129

Q1101

Q1102

Q1103

Q1104

Q1105

Q1106

Q1107

Q1108

Q1109

Q1110

Q1111

Q1112

Q1113

Q1114

Q1115

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Q1121

Q1122

Q1123

Q1124

Q1125

Q1126

Q1127

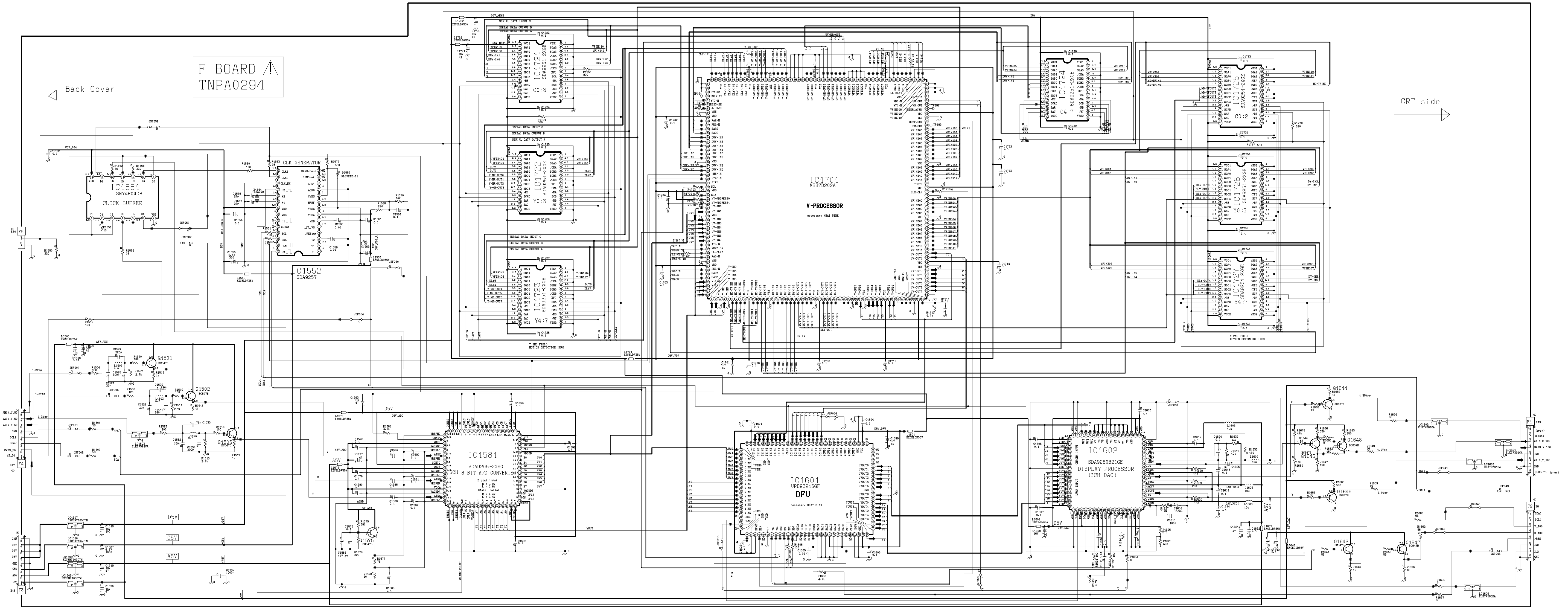
Q1128

Q1129

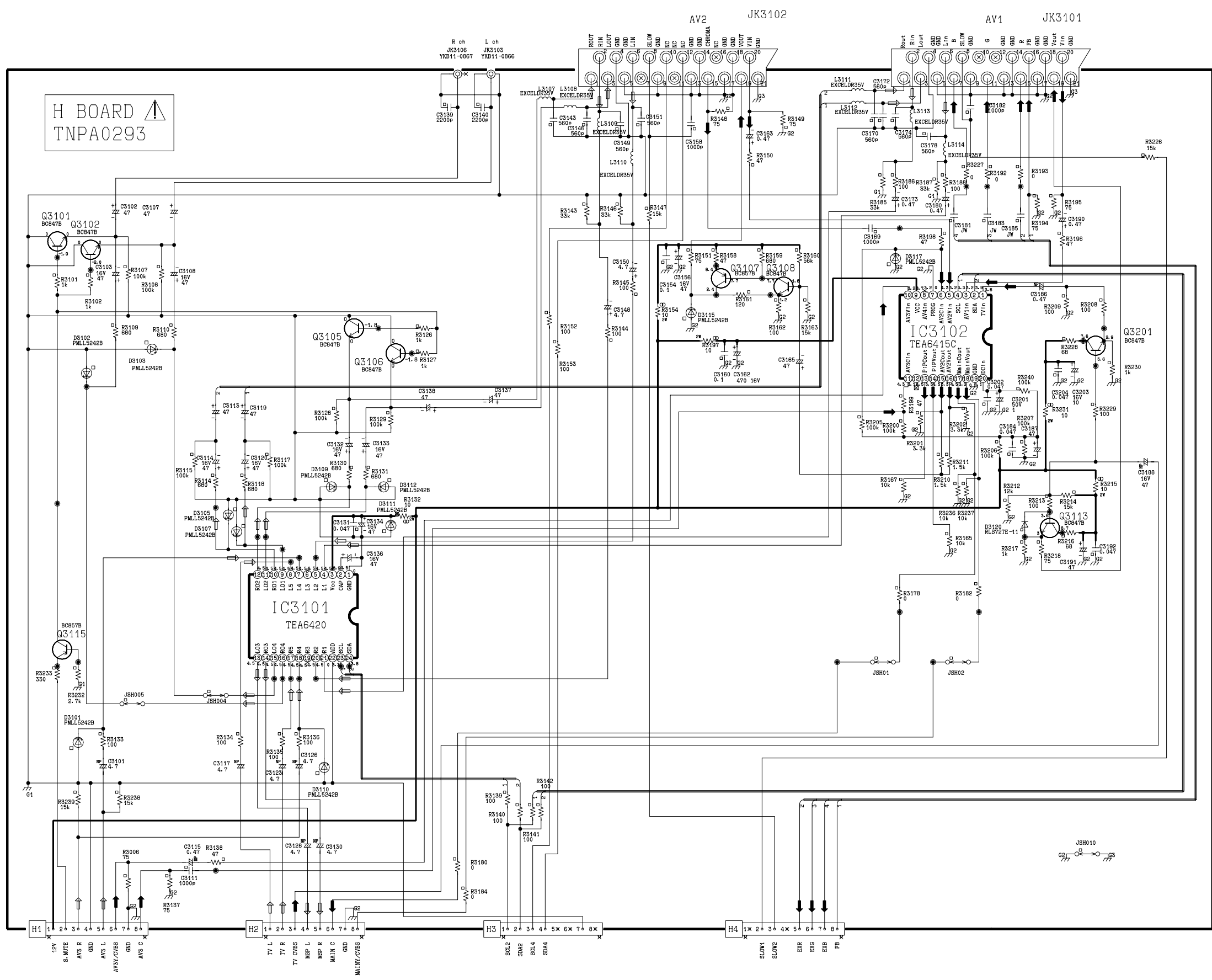
F BOARD  
TNPA0294

Back Cover

CRT side



H BOARD  
TNPA0293



H1

H2

H3

H4

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

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

SCL2  
SDA2  
SCL4  
SDA4

SLOW1  
SLOW2  
EXR  
EXG  
EXB  
FB

AV2 JK3102

AV1 JK3101

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

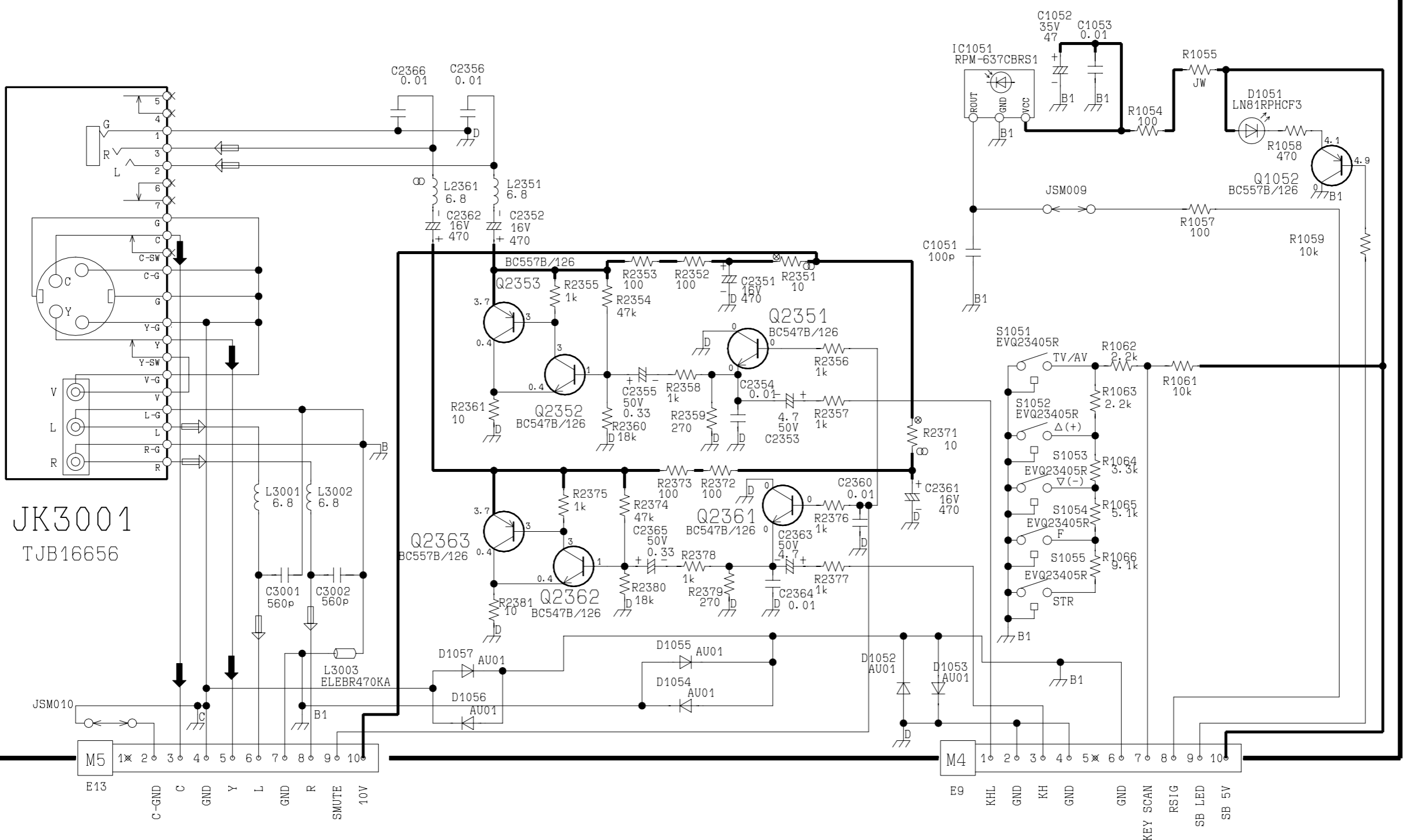
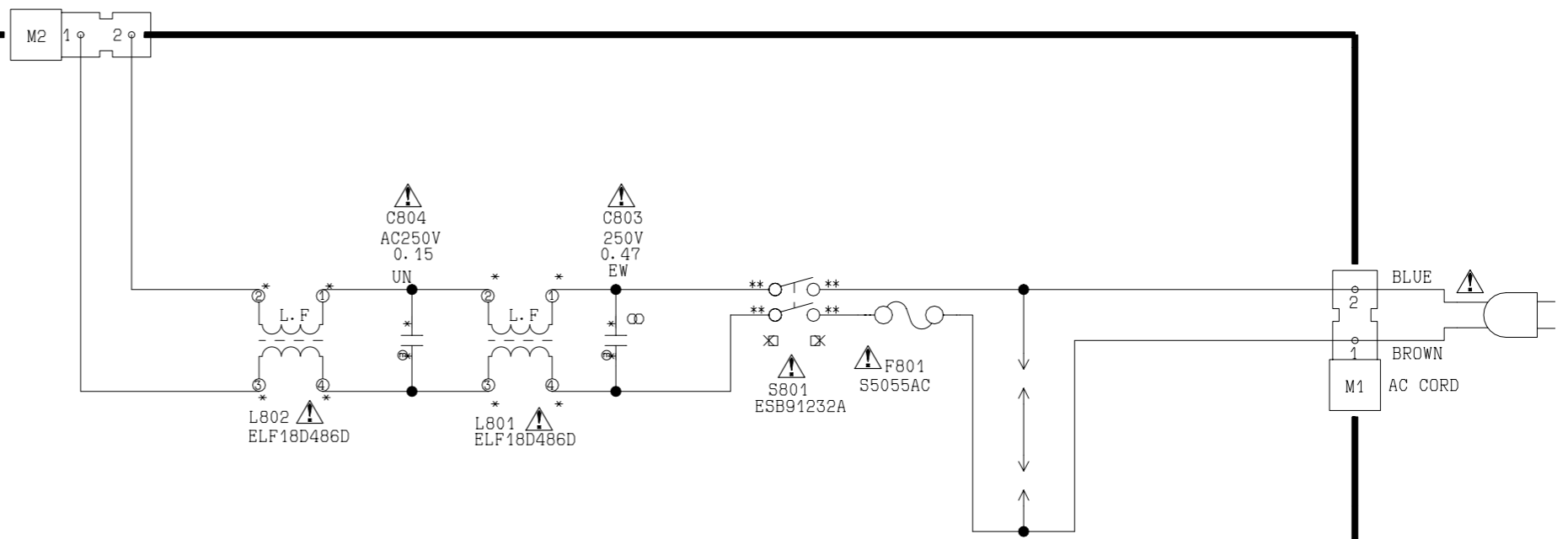
JSH01  
JSH02  
JSH10



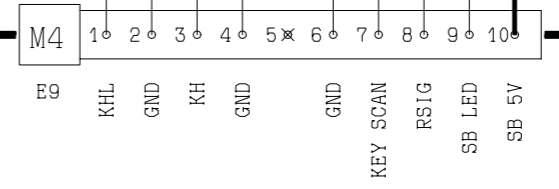
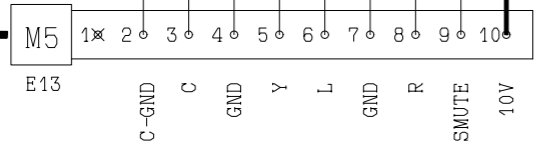
M BOARD  
TNPA0348

COLD

HOT

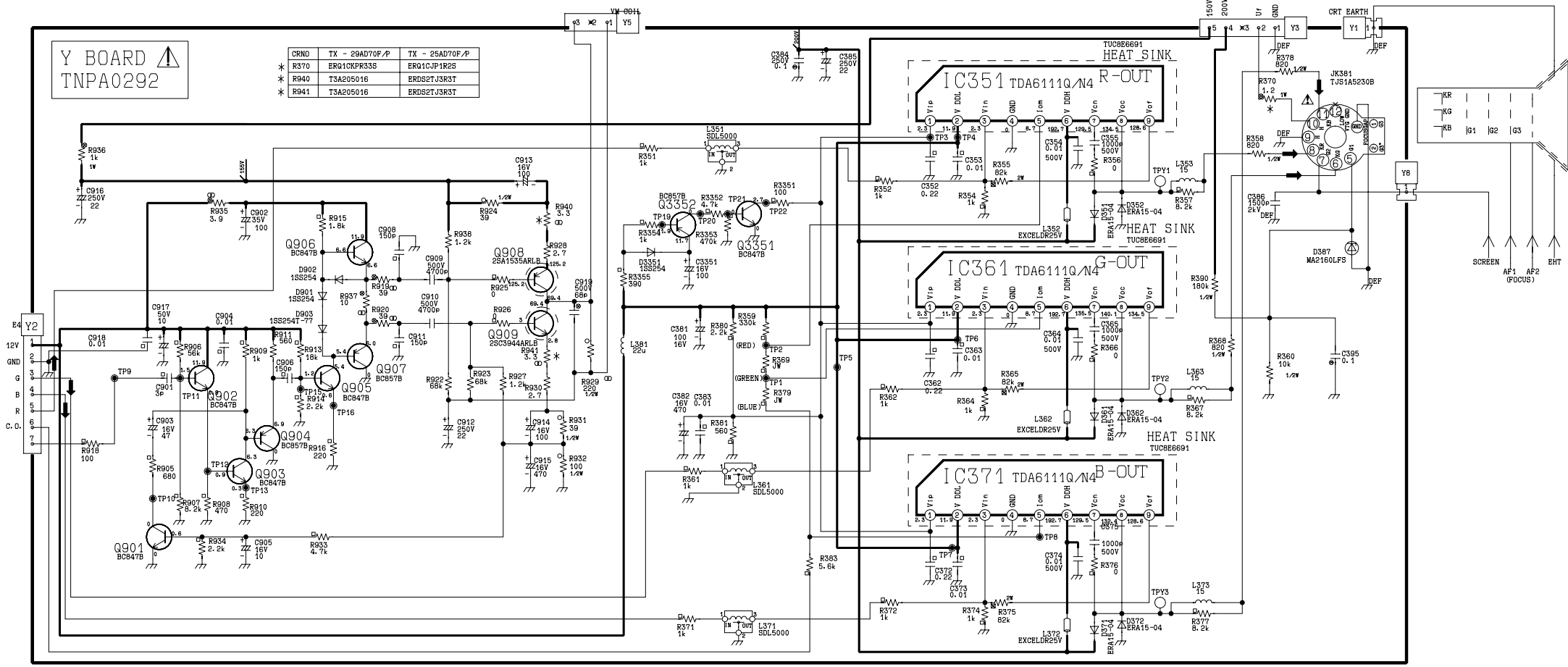


JK3001  
TJB16656



Y BOARD  
TNP A0292

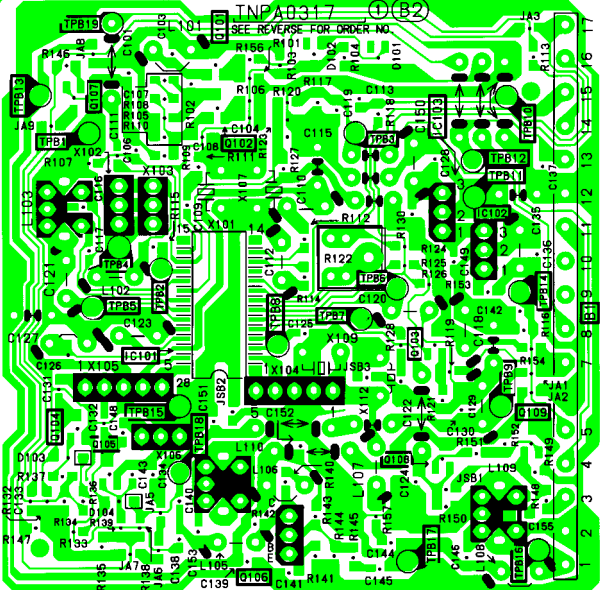
CRNO	TX - 29AD70F/P	TX - 25AD70F/P
* R370	ERQ1CKPR33S	ERQ1CJP1R2S
* R940	T3A205016	ERDS2TJ3R3T
* R941	T3A205016	ERDS2TJ3R3T



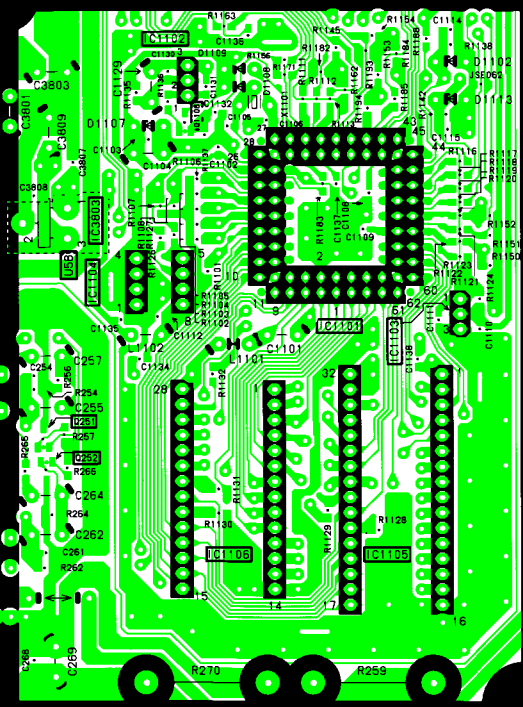
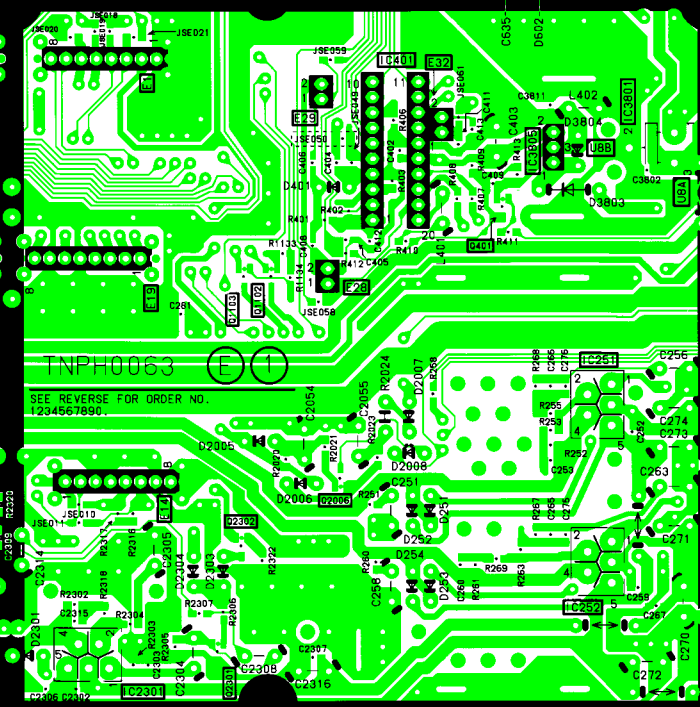
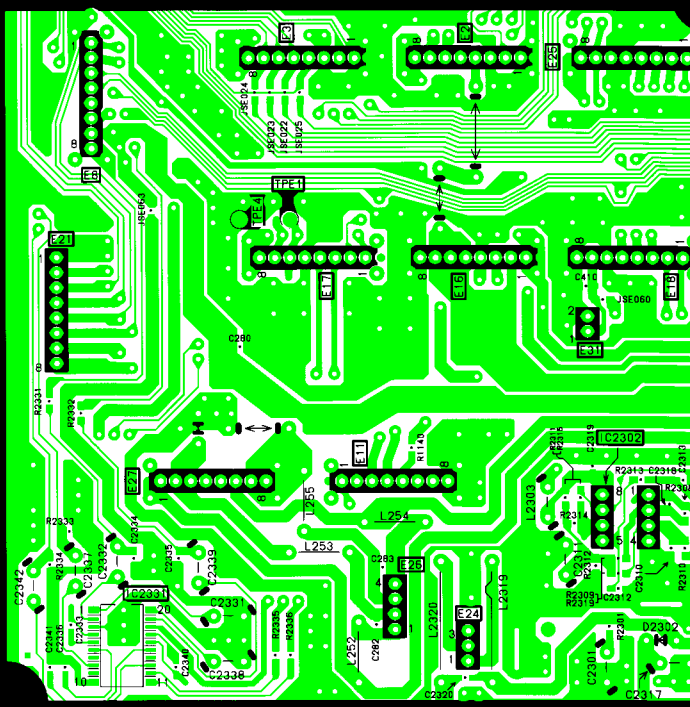
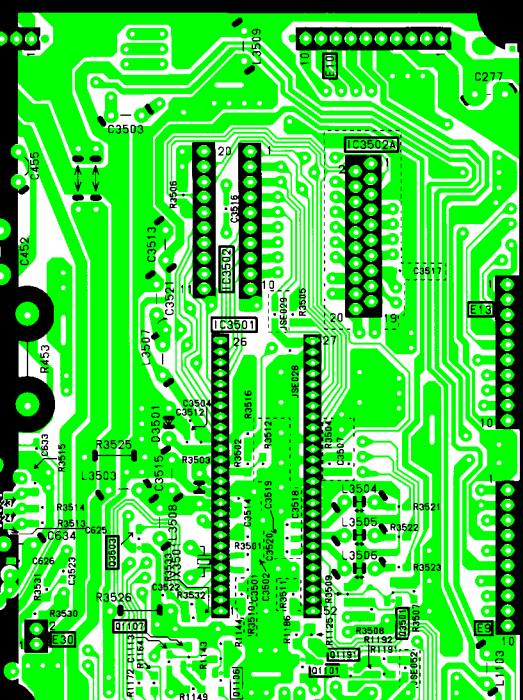
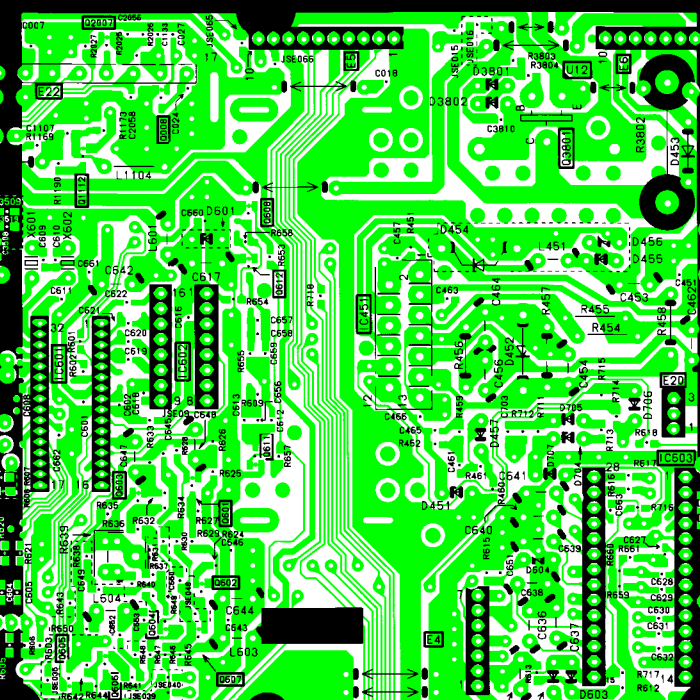
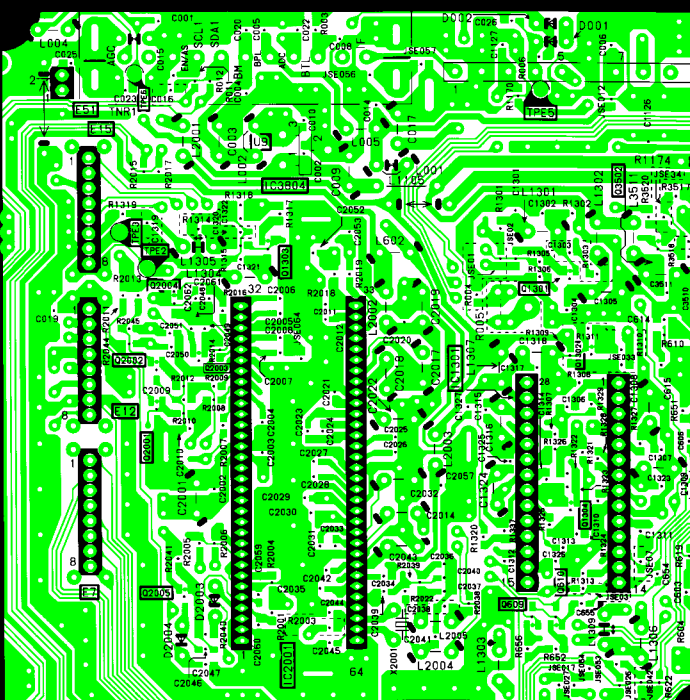
TNP A0317

(1) (B2)

SEE REVERSE FOR ORDER NO.









C1740

JF023

14

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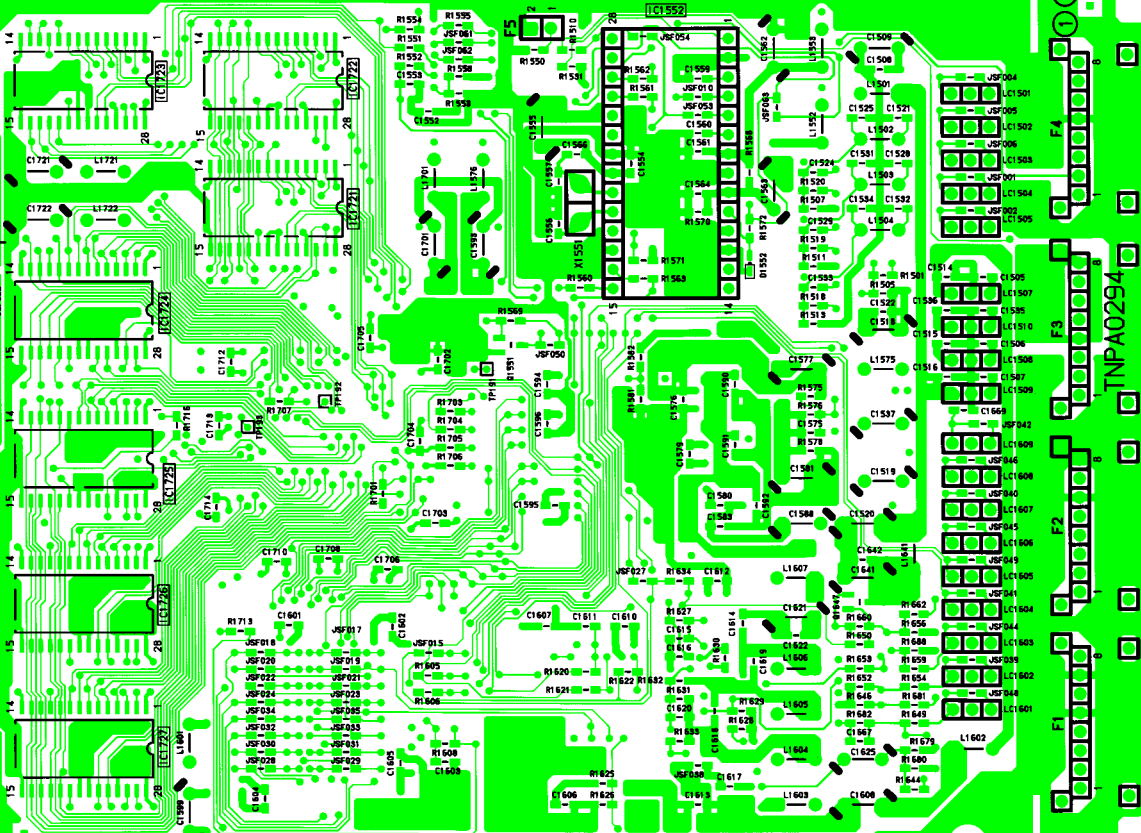
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15



TNP A0294

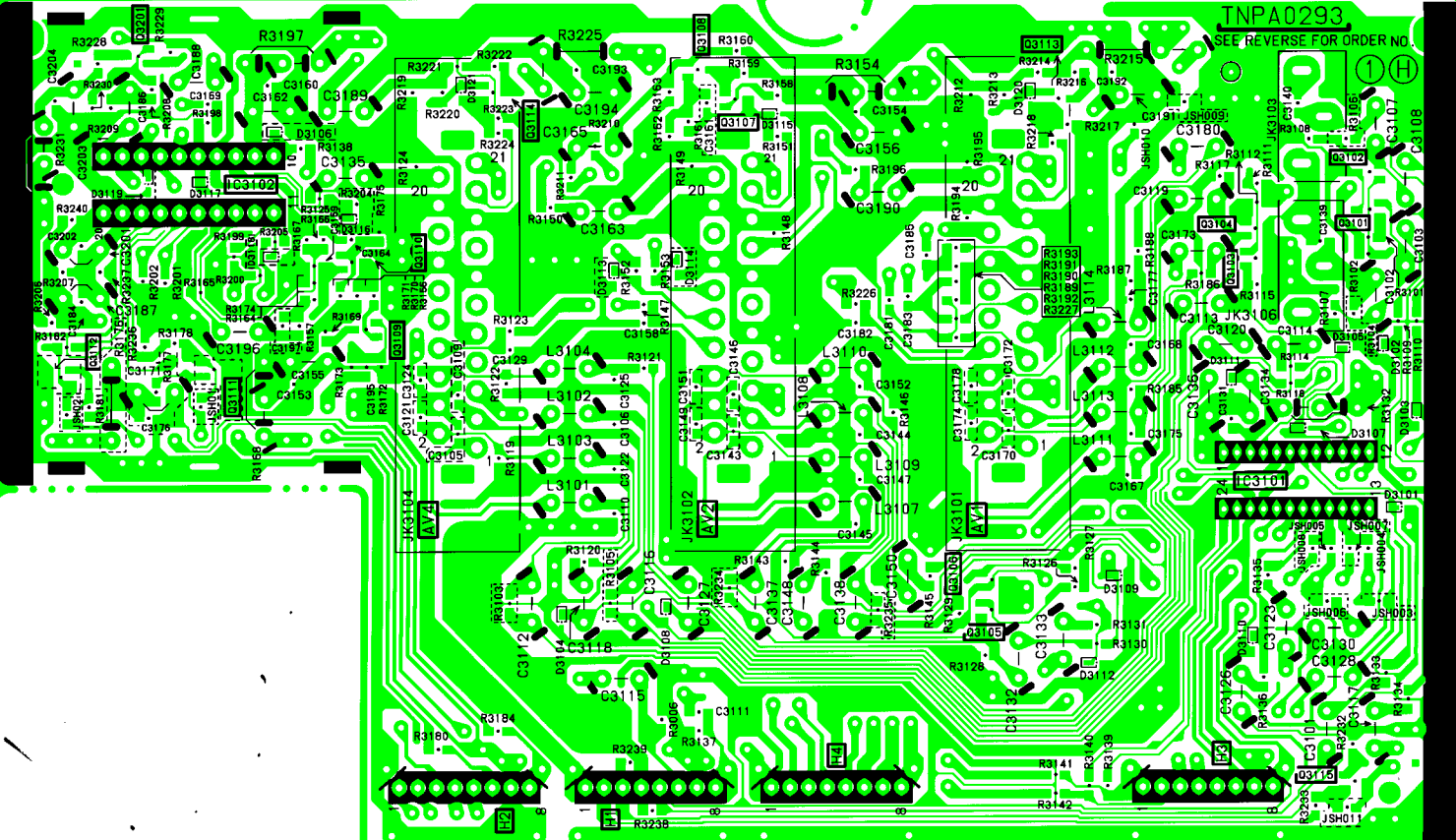
F1

F2

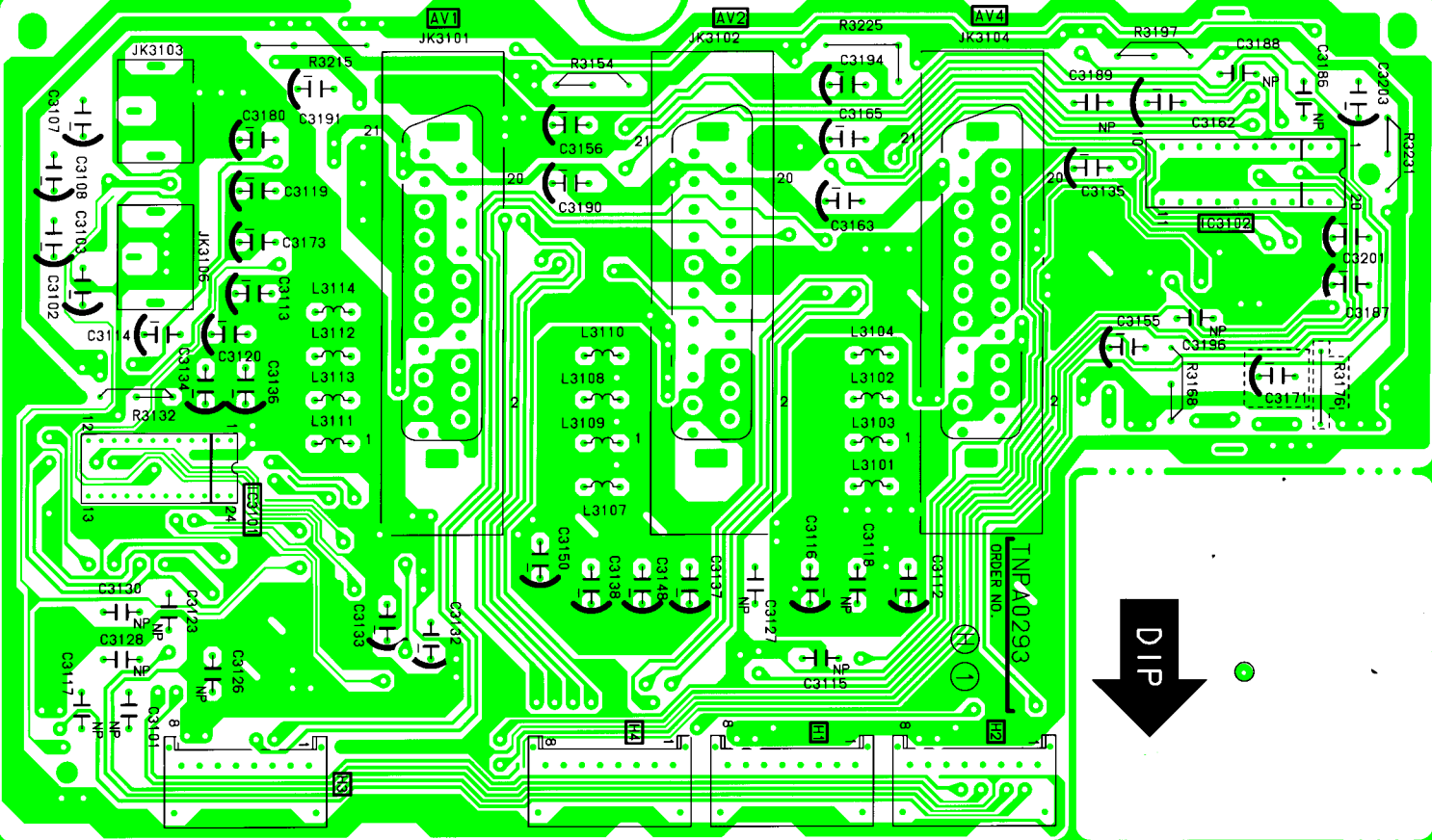
F3

F4

F5







DIP

TNP40293

ORDER NO.

AV1

AV2

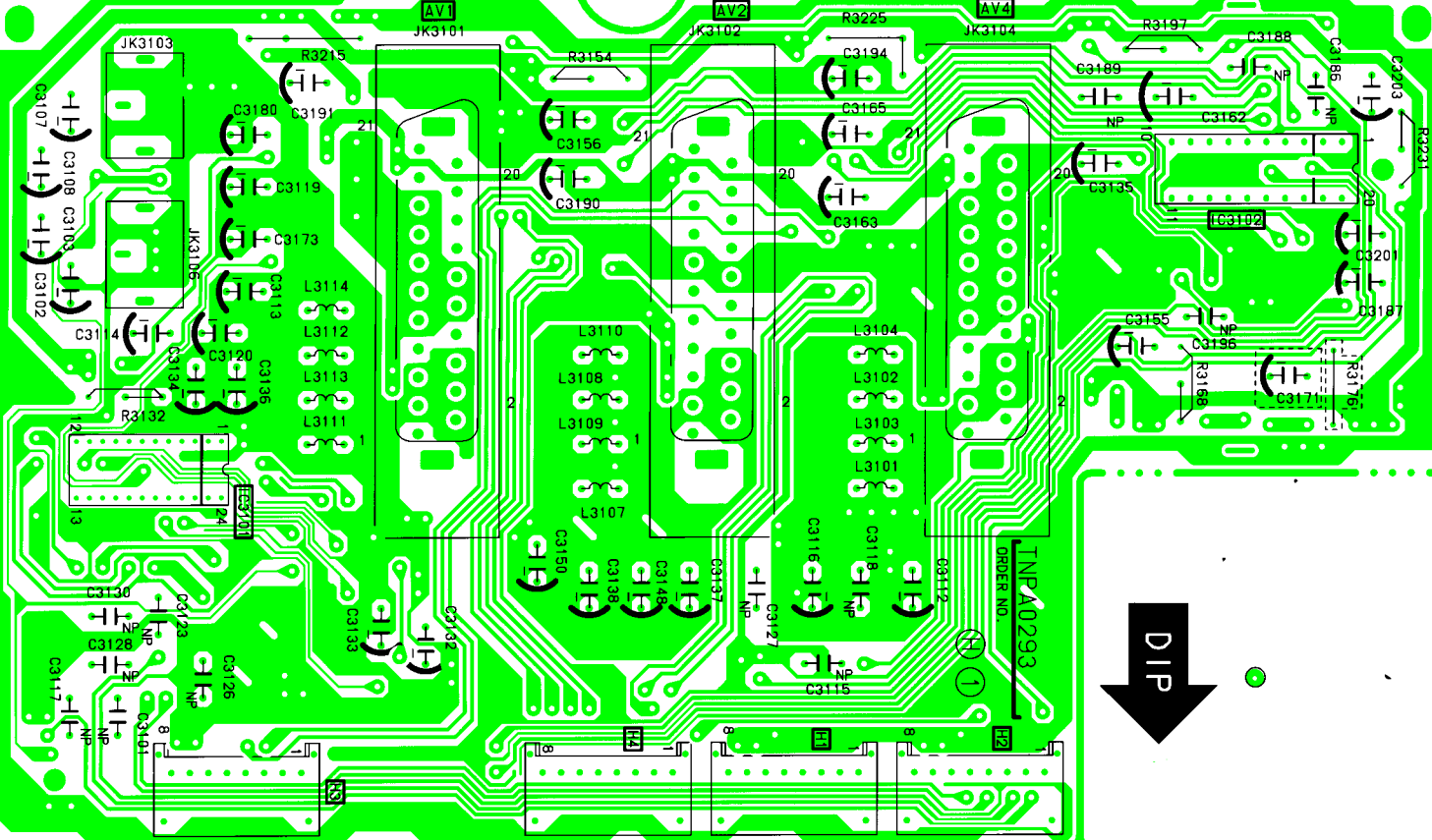
AV4

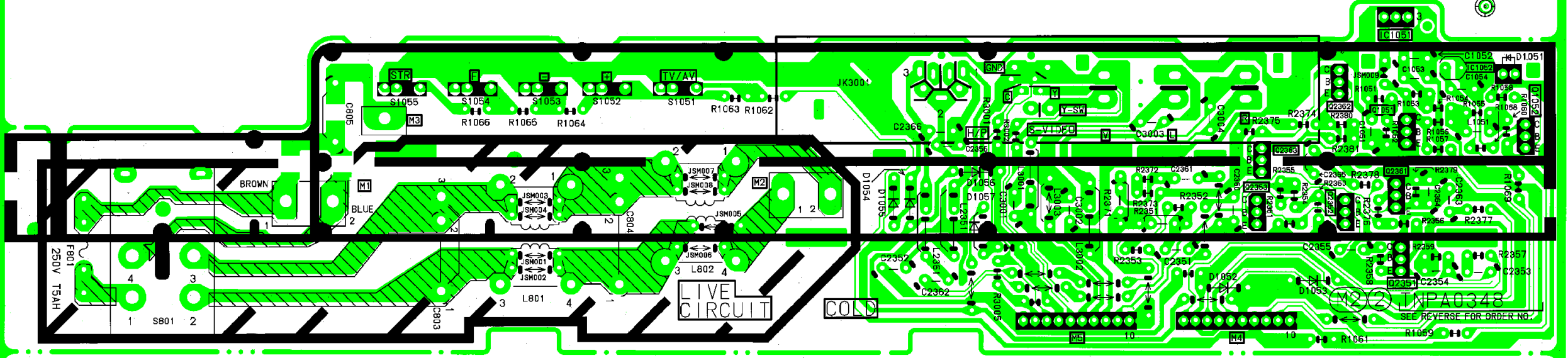
LC3102

AV3

AV5

AV6





← DIP

TNPA0348 (M2) (2)

(M2) (2) TNPA0348  
SEE REVERSE FOR ORDER NO.

TNPA0292

SEE REVERSE FOR ORDER NO.

(2) (Y)

H.V. DANGER

JK381

