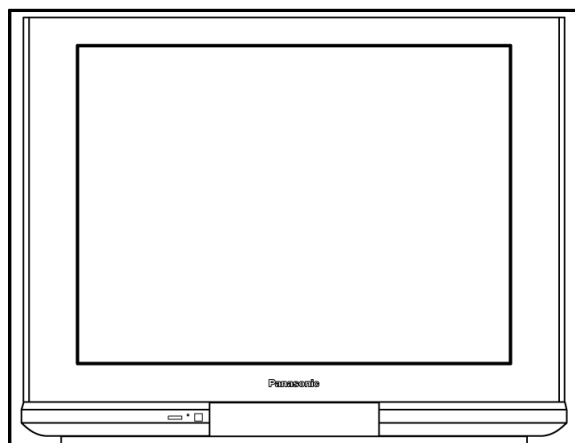


Service Manual

Colour Television



TX-34P180R

GP2 Chassis

Specifications

Power Source	AC Auto 110-240 V, 50 / 60 Hz	Receiving Channels	Regular TV
Power Consumption	191 W	VHF BAND	2-12 (PAL / SECAM B, K1)
	Standby condition: 11 W		0-12 (PAL B AUST.)
Receiving System			1-9 (PAL B N.Z.)
Function	21 Systems		1-12 (PAL / SECAM D)
Reception of broadcast	PAL B, G, H		1-12 (NTSC M Japan)
transmissions and Playback	PAL I		2-13 (NTSC M U.S.A.)
from Video Cassette Tape	PAL D, K	UHF BAND	21-69 (PAL G,H,I / SECAM G,K,K1)
Recorders	SECAM B, G		28-69 (PAL B AUST.)
	SECAM D, K		13-57 (PAL D,K)
	SECAM K1		13-62 (NTSC M Japan)
	NTSC M (NTSC 3.58 / 4.5 MHz		14-69 (NTSC M U.S.A.)
Playback from special	NTSC 4.43 / 5.5 MHz	CATV	S1-S20 (OSCAR)
VCRs	NTSC 4.43 / 6.0 MHz		1-125 (U.S.A. CATV)
	NTSC 4.43 / 6.5 MHz		C13-C49 (JAPAN)
	NTSC 3.58 / 5.5 MHz		S21-S41 (HYPER)
	NTSC 3.58 / 6.0 MHz		Z1-Z37 (CHINA)
	NTSC 3.58 / 6.5 MHz)		5A, 9A (AUST.)
	SECAM I	Receiving Stereo System	NICAM I, NICAM B / G, NICAM D, A2
Playback from Special Disc	PAL 60 Hz / 5.5 MHz		(German)
Players and Special VCRs	PAL 60 Hz / 6.0 MHz	Tuning System	Frequency synthesizer
	PAL 60 Hz / 6.5 MHz		Auto Search Tuning
	SECAM 60 Hz / 5.5 MHz		POSITION: 100 Position
	SECAM 60 Hz / 6.0 MHz		DIRECT: 125 Position
	SECAM 60 Hz / 6.5 MHz	High Voltage	32.0 ± 1.0 kV at zero beam current
	NTSC 50 Hz / 4.5 MHz	Picture Tube	Overall Picture tube measured

Panasonic®

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	(M8OLSW096X)	Video, Audio L / R terminals
	diagonally: 73 cm	AV2 IN (Front): S-Video,
Viewable Picture tube measured		Video, Audio L / R RGB
	diagonally: 68 cm	Terminals
	CRT Deflection: 104 °	AV3 IN (Rear): Video, Audio
Audio Output	20W	L / R terminals
Headphones	3.5 mm Plug	AV4 IN (Rear): Video or
Aerial Impedance	75 Ω Unbalanced Coaxial	Y / P _B / P _R , Audio L / R
Video / Audio / Component		terminals
AV 1, 2, 3, 4		RGB Input
	S-Video In Y:1 Vp-p, 75 Ω	High-DENSITY D-sub 15 pin
DVD	C:0:3 Vp-p 75 Ω	31.5 kHz / 60 Hz (640 x 480 dot) and
	Y 1.0Vp-p, 75 Ω	31.5 kHz / 70 Hz (640 x 400 dot)
	P _B 0.7Vp-p, 75 Ω	Remote Control Transmitter
	P _R 0.7Vp-p, 75 Ω	R6 (AA) Battery x 2
Monitor Out	Video In 1 Vp-p, 75 Ω	75 Ω coaxial aerial plug
	Audio In Approx. 0.4 V 47 k Ω	Dimensions (W x D x H)
	Video Out 1 Vp-p, 75 Ω	899 mm x 567 mm x 674.9 mm
	Audio Out Approx. 0.4 V 1 k Ω	Weight (Mass)
		71 kg (Net)
AV1 IN (Rear): S-Video,		Note :
		Design and Specifications are subject to change without notice.
		Weight and Dimensions shown are approximate.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

	Page		Page
1 SAFETY PRECAUTIONS	4	5.13. SUB BRIGHT	16
1.1. General Guide	4	6 DEFLECTION ADJUSTMENT	17
1.2. Leakage Current Cold Check	4	6.1. V-Adjustment / Confirmation (4:3 Mode)	17
1.3. Leakage Current Hot Check (See Fig. 1)	4	6.2. H-Deflection Confirmation / Adjustment (4:3 Mode)	17
1.4. X-Radiation	5	6.3. EW Adjustment / Confirmation (4:3 MODE)	18
2 SERVICE HINTS	6	6.4. 525p (YUV) DEFLECTION (4:3 MODE) ADJUSTMENT /	
2.1. HOW TO REMOVE THE REAR COVER	6	CONFIRMATION	19
2.2. HOW TO MOVE THE CHASSIS INTO SERVICE		6.5. 525p (YUV) DEFLECTION (16:9 MODE)	
POSITION	6	CONFIRMATION.	19
2.3. HOTEL MODE	6	6.6. 625p (YUV) DEFLECTION (4:3 MODE) CONFIRMATION.	
3 SELF CHECK	7		20
4 MARKET MODE FUNCTION	8	6.7. 625p (YUV) DEFLECTION (16:9 MODE)	
5 ADJUSTMENT PROCEDURE	11	CONFIRMATION.	20
5.1. VOLTAGE CONFIRMATION	11	6.8. V-LINEAR ADJUSTMENT / CONFIRMATION (4:3 MODE)	
5.2. E.H.T CHECK	11		20
5.3. SUB CONTRAST	11	6.9. Table 1	20
5.4. SUB TINT	12	7 CONDUCTOR VIEWS	21
5.5. SUB COLOUR	12	7.1. D-Board	21
5.6. VRS ADJUSTMENT	13	8 SCHEMATIC DIAGRAMS	22
5.7. COLOUR PURITY	14	8.1. SCHEMATIC DIAGRAM NOTES	22
5.8. CONVERGENCE	14	8.2. GM BOARD	24
5.9. CUT OFF	15	8.3. L BOARD	26
5.10. WHITE BALANCE	16	8.4. A BOARD	29
5.11. FOCUS	16	8.5. D BOARD	34
5.12. GEOMAGNETIC	16	8.6. G BOARD	39

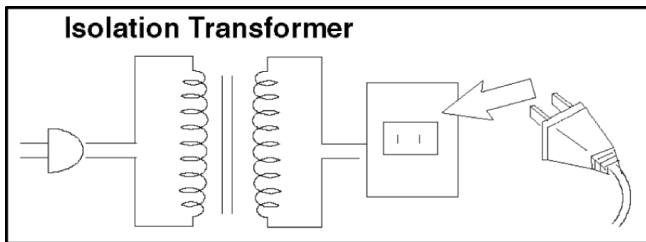
9 PARTS LOCATION	41
10 REPLACEMENT PARTS LIST	42

10.1. Replacement Parts List Notes	42
10.2. Replacement Part List	43

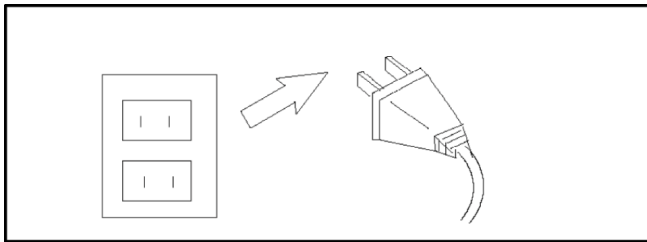
1 SAFETY PRECAUTIONS

1.1. General Guide

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.



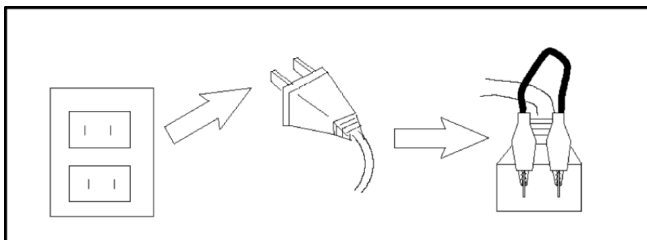
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.



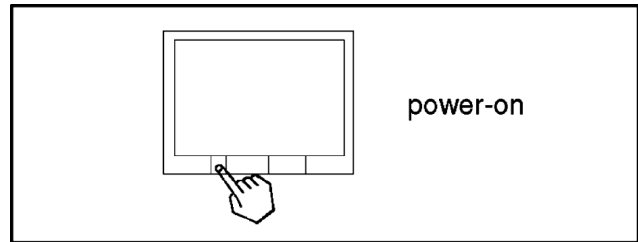
5. Potential, as high as **31.0 kV** is present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.



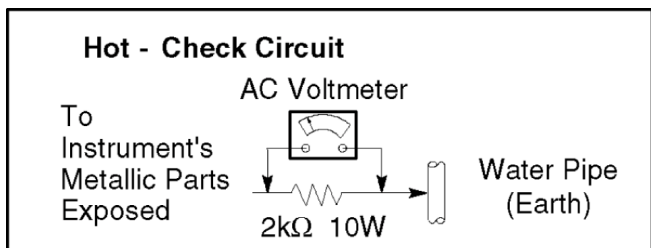
2. Turn on the receiver's power switch.



3. Measure the resistance value, with an ohmmeter, between the jumper 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 **4 MΩ and 20 MΩ**. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

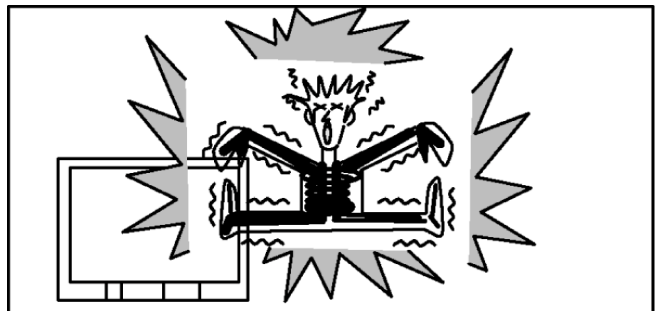
1.3. Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $2\text{k}\Omega$, 10 W 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 type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.



(Fig. 1)

5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential any point should not exceed **1.0 V rms**. In the case of a measurement being outside of 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.



1.4. X-Radiation

Warning:

1. The potential sources of X-Radiation in TV sets are the EHT section and the picture tube.
2. When using a picture tube test rig for service, ensure that the rig is capable of handling **32.0 kV** 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 reading should indicate **32.0 ± 1.0 kV**. 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 the possibility of X-Radiation, it is essential to use the specified picture tube.

2 SERVICE HINTS

2.1. HOW TO REMOVE THE REAR COVER

1. Remove the 9 screws as shown in Fig. 1.

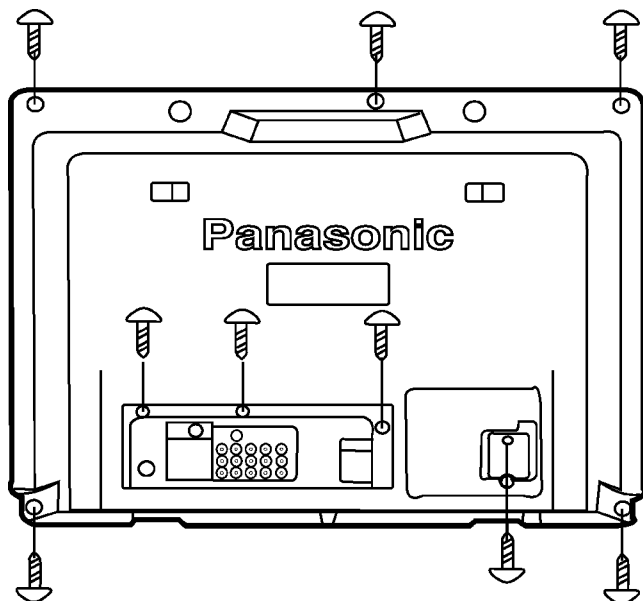
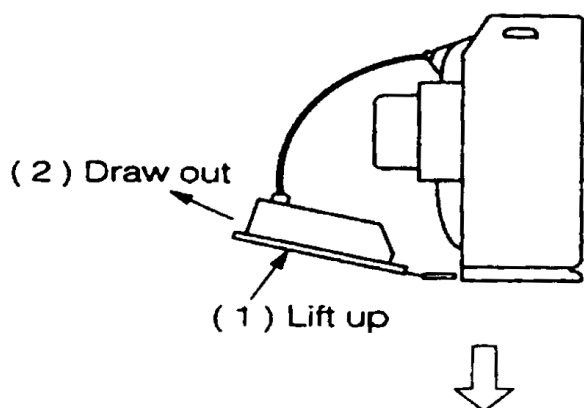


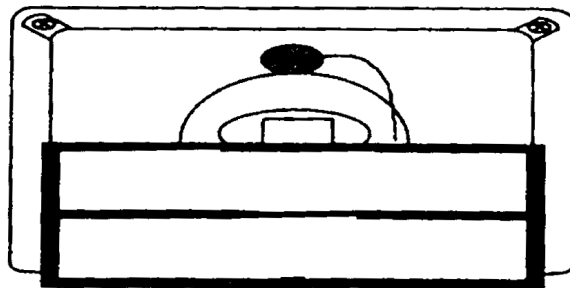
Fig. 1

2.2. HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Hold and lift the rear of the chassis and gently pull the chassis towards you as shown in Fig. 3.
2. Release the respective wiring clips and rotate the chassis vertically through 90° anticlockwise.
3. After servicing replace the bead clumper and ensure all wiring is returned to its original position before returning the receiver to the customer.



(Fig. 3)



2.3. HOTEL MODE

Purpose

1. At Hotels, this Mode prevents the customer from changing the TV preset data such as Channel preset data.

Note: This Mode is useful for Hotels. You should not get into "Hotel mode" with Normal use.

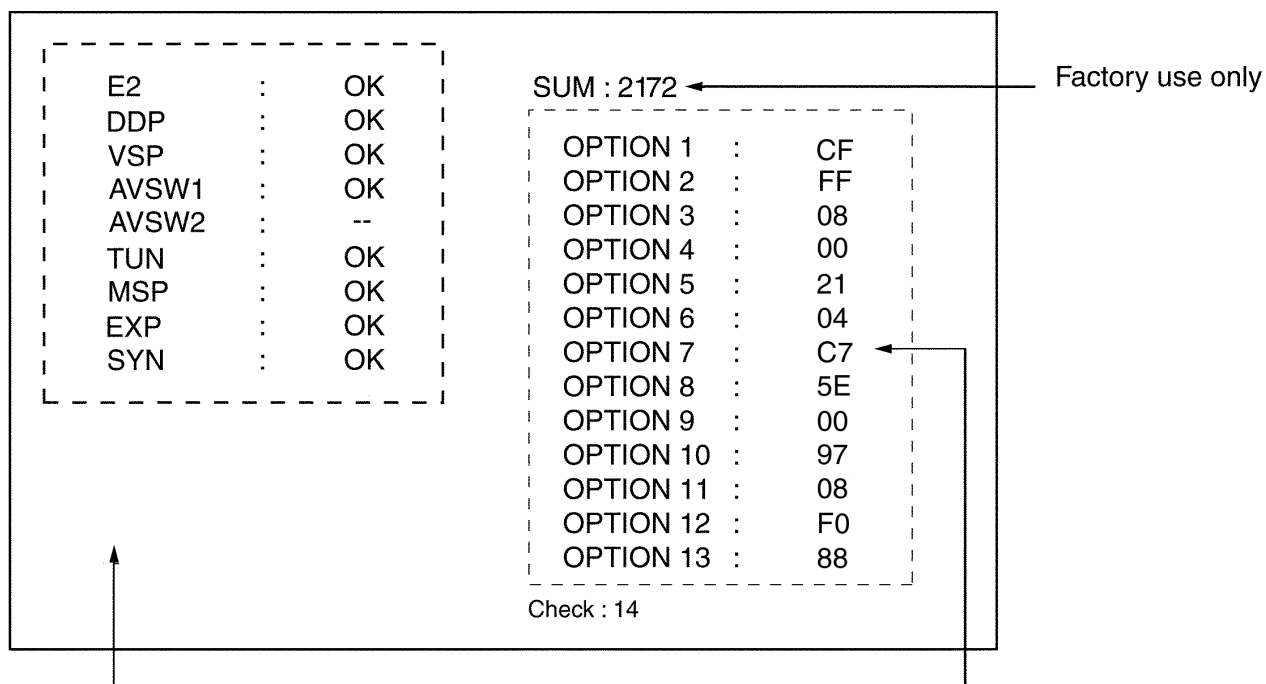
Operation

1. To get into "Hotel Mode", press the remote control "Recall" button and Channel up "[+ / ^]" key on the TVset simultaneously, after setting the "Off-Timer" mode.
2. In this mode, the Channel up and down Function will be enabled as normal and the maximum volume level for this mode is set at the current volume level, i.e. the setting at the level before entering the mode. However, other functions will be disabled.
3. To exit this mode, exit "Off-Timer" mode and the "Volume Down [- / v]" key simultaneously.

* This information is informed by Service Manual only.

3 SELF CHECK

1. Selection of SELF CHECK Mode.
2. Press Timer button on the remote control and press button - on the TV set.



Check result of IC

'OK' → Normal
 'NG' → Abnormal
 (Check IC or its nearby components)

Option Code display
 The numbers are displayed in hexadecimal.
 Note : Option Codes are only examples.
 Please refer the option table for each models.

4 MARKET MODE FUNCTION

Outline:

MPU controls the functions switching for each lcs through lcs bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

1. Selection of SERVICE 1 Mode

Adjust the Volume "ZERO" and set OFF TIMER button to 30 min. Then simultaneously press the Recal button on the remote control and Volume button - the TV set.

2. Selection of SERVICE 1 Mode

Cursor moves each Mode by pressing "3" or "4" of 10 key button on the remote control.

3. Selection of SERVICE 2 Mode

Adjust Volume "ZERO" and set OFF TIMER button to 30 min. Then simultaneously press the Recal button on the remote control and Volume button - on the TV set then press MUTE button togetherpress - button on the TV set.

4. Selection of HOTEL Mode

Press recall button on the remote control and press button + on the TV set.

SERVICE 1

Function

Sub-Contrast	196
Sub-Colour	30
Sub-NTSC Tint	7
Video Gain 2	31
SPL Gain	0
H-Pos	941
V-Pos	79
H-Amp	91
V-Amp	118
Parabola	90
Trapezoid	127
H-Parallel	26
V-Linear	144
Top-Corner	182
Botton-Corner	180
V-S Correct	100
C-Correct	16
H-Daf Phase	12

High	0127		0138
Low	0471	0512	0475

Sub-Bright	131
Sub-Geomagnetic	15

DATA			
Option 1		00	
	b0	Colour system (TV)	AUTO (1)
	b1		SECAM (1)
	b2		NTSC (1)
	b3		M.NTSC (1)
	b4	TV Colour system	NTSC 50 (1)
	b5		SECAM 60 (1)
	b6	AV Colour system	NTSC 50 (1)
	b7		SECAM 60 (1)
Option 2		00	
	b0	CH Plan for Asia	ASIA / M.E (1)
	b1		NZ/INDNES (1)
	b2		AUSTRALIA (1)
	b3		E.EUROPE (1)
	b4		SPECIAL (1)
	b5		AMERICA (1)
	b6		CATV (1)
	b7		JAPAN (1)
Option 3		00	
	b0		PIP (1)
	b1		2 TUNER (1)
	b2		VGA (1)
	b3		YUV (1)
	b4		CRT (1)
	b5		HYPER (1)
	b6		SIF (1)
	b7		SIF (1)
Option 4		00	
	b0	A2	4.5 (1)
	b1		5.5 (1)
	b2		6.0 (1)
	b3		6.5 (1)
	b4	NICAM	4.5 (1)
	b5		5.5 (1)
	b6		6.0 (1)
	b7		6.5 (1)
Option 5		00	
	b0	A2 6.5M	SELECT(1)
	b1	NICAM PRIORITY	ASIA / ME(1)
	b2		HK / UK (1)
	b3		CHINA (1)
	b4		NZ / INDONESIA
	b5		AUSTRALIA (1)
	b6		E.EURO (1)
	b7		SPECIAL (1)
Option 6		00	
	b0		IF 38.9MHZ (1)
	b1		SASO (1)
	b2		IF12C (1)
	b3		MON.OUT AV1 MUTE (1)
	b4		TUNER SLAVE C2 (1)
	b5		ALPS TUNER (1)
	b6		VCR GAME (1)
	b7		COMB (1)
Option 7		00	
	b0	BLANKING	POWER ON EC (1)
	b1		TV (1)
	b2		AV (1)
	b3		AUTO WIDE (1)
	b4		VOL.CORRECT (1)
	b5		AV LINK (1)
	b6		MPX DISPLAY N (1)
	b7		NOISE MUE (1)
Option 8		00	
	b0		AC1 AUTOMP (1)

	b1			GEOMAG CENSOR (1)
	b2			GEOMAG POLAR (1)
	b3			RF ATT. (1)
	b4			FINE TUNEING (1)
	b5			SLOW SEARCH (1)
	b6			TOP (1)
	b7		TELETEXT	FLOP (1)
Option 9		00		
	b0			DOLBY (1)
	b1			3D (1)
	b2			EXPORT DOLBY (1)
	b3			WOOFER LINEOUT (1)
	b4			EXT. WOOFER
	b5			D-3 (1)
Option 10	b6			LOUDNESS (1)
	b7			EXDAC VOL (1)
		00		
	b0		OSD LANGUAGE	-
	b1			ARABIC (1)
	b2			RUSSIAN (1)
	b3			CHINESE (1)
Option 11	b4			-
	b5			BC SAFETY (1)
	b6			-
	b7			PROT. 5V DET (1)
		00		
	b0			SHOPE MODE (1)
	b1			-
Option 12	b2			SUB HP (1)
	b3			SCAN BLANK (1)
	b4			14 : 9
	b5			C4BIT (1)
	b6			-
	b7			-
		00		
Option 13	b0			-
	b1			-
	b2			-
	b3			IRELAND (1)
	b4			U.K (1)
	b5			TEXT LATIN (1)
	b6			TXT CIS (1)
Option 13	b7			TXT E-EURO (1)
		00		
	b0			ACI EURO (1)
	b1			ACI OFFSET (1)
	b2			GP2 ADCWU (1)
	b3			IRELAND (1)
	b4			TEXT (1)
	b5			
	b6			
	b7			

5 ADJUSTMENT PROCEDURE

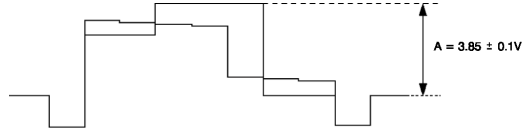
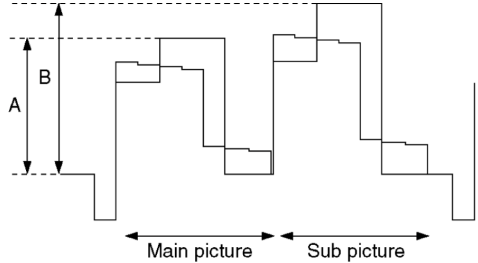
5.1. VOLTAGE CONFIRMATION

Item/Preparation	Adjustment Procedure
1. +B voltage	1. TPD2 : $144.8V \pm 1V$ 2. TPD21: $13.5V \pm 1V$ 3. TPD3 ~ TPD4 : $35V \pm 3V$

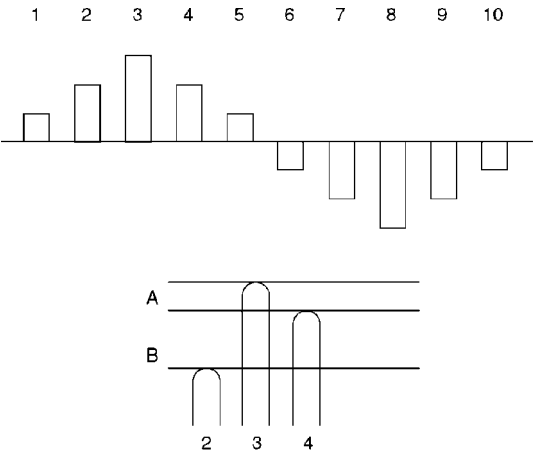
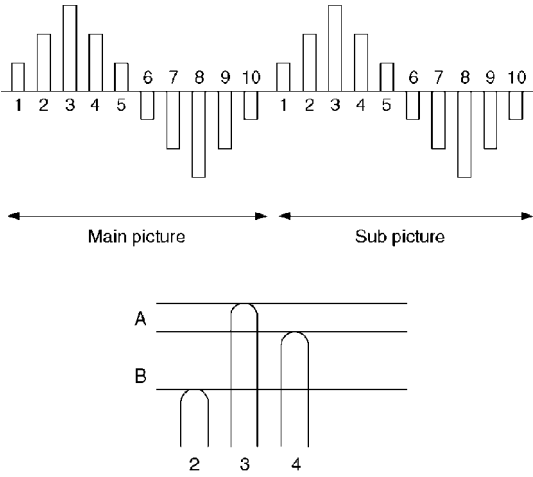
5.2. E.H.T CHECK

Item/Preparation	Adjustment Procedure
1. Receive an RF signal, window or crosshatch pattern. 2. Set the Brightness and Contrast to minimum (0 Beam) 3. Connect the High Voltage Voltmeter to the CRT ANODE CAP. 4. The set should be switched to AV (no input) contrast and brightness minimum.	1. Check the EHT voltage is $(32.0 \pm 1.0) \text{ kV}$. 2. Switch from AV mode to TV. 3. With the Brightness and the contrast controls MAX, check that the high voltage does not drop more than 3.0 kV from the above measurement with R.F. signal.

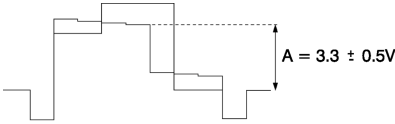
5.3. SUB CONTRAST

Item/Preparation	Adjustment Procedure
1. Receive PAL colour bar pattern 2. Connect oscilloscope to A51 pin 48. 3. Set controls: BRT.....CENTER COLOUR.....CENTER CONTRAST....MAX Al.....OFF	1. Adjust Sub Contrast (Service 1): $A = 3.85 \pm 0.1V$  Fig. 1 2. Adjust Video gain 2 (Service 1) so that Sub picture level B becomes as same as Main picture level A.  Fig. 2

5.4. SUB TINT

Item/Preparation	Adjustment Procedure
1. Receive a 3.58 MHz NTSC rainbow pattern 2. Connect oscilloscope to A51 pin 50. 3. Set controls: BRT.....CENTER COLOUR.....CENTER CONTRAST....MAX NTSC TINT.....CENTER AI.....OFF	1. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. 3  A:B = 2:3 Fig. 3 2. Receive the Rainbow pattern (3.58 MHz NTSC) on both of Main and Sub pictures. 3. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. 4.  A:B = 2:3 Fig. 4

5.5. SUB COLOUR

Item/Preparation	Adjustment Procedure
1. Receive a 3.58 MHz NTSC rainbow pattern 2. Connect oscilloscope to A51 pin 48. 3. Set controls: BRT.....CENTER COLOUR.....CENTER CONTRAST....MAX AI.....OFF	1. Adjust Sub Colour: A = 3.3 ± 0.5V  Fig. 5

5.6. VRS ADJUSTMENT

1. PREPARATION

- Set DY to CRT not to tilt up and down and left and right deflection. (Fig. 1)
- Set CY to CRT and set CY magnet primarily.
Pur Mg: Set Pur Mg that 2 magnets are vertical position.
VRS Mg: Set VRS Mg that 2 magnets are side position.
- Set geomagnetic correction DAC [0].

2. ADJUSTMENT

- Receive the white balance pattern.
- Adjust V-CENTER.
- Set R,B CUT OFF to minimum (0) and set G CUT OFF to center (511).
- Receive the aging pattern.
- Set 2 magnets of vertical position to up and down equally so that center part of CRT. (Fig. 3)

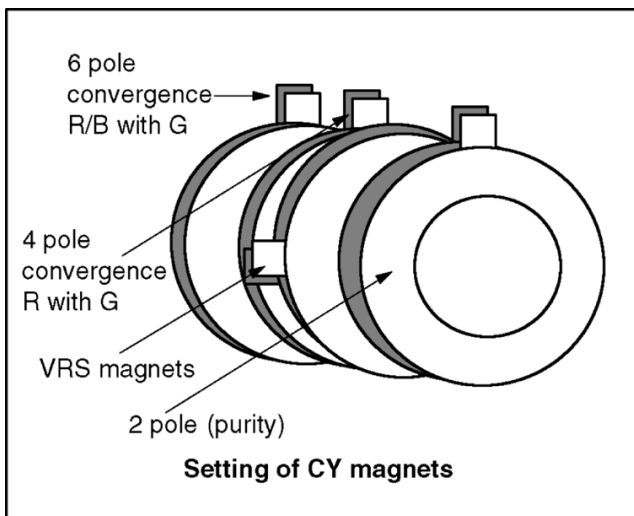


Fig. 1

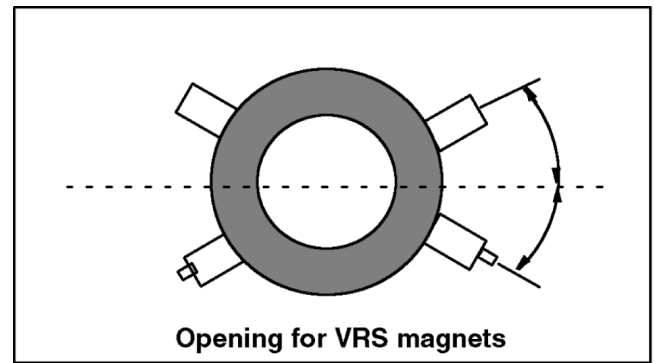


Fig. 2

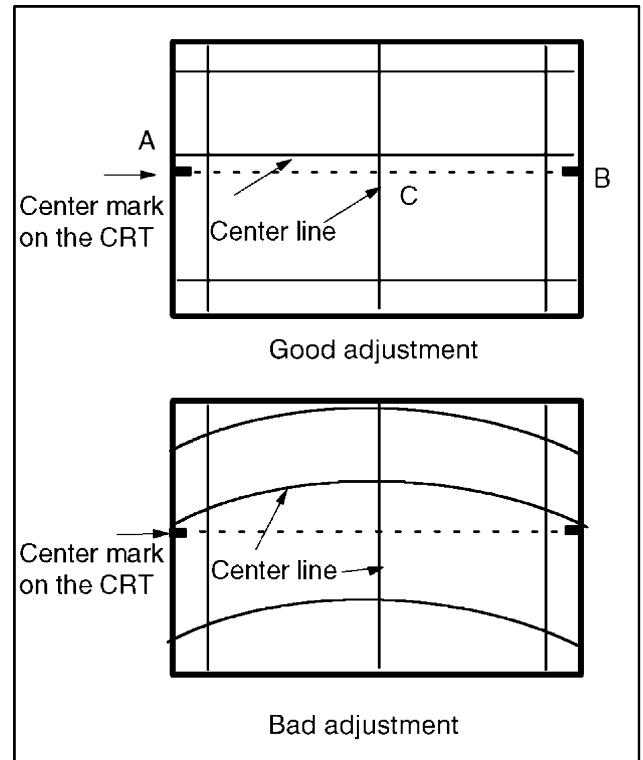
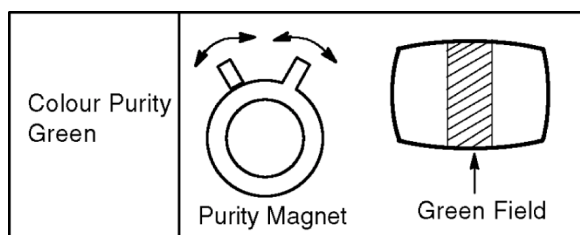


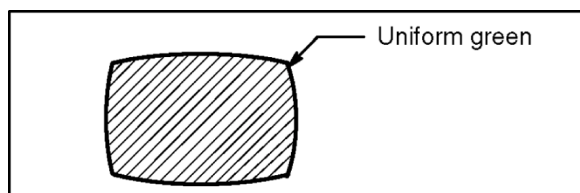
Fig. 3

5.7. COLOUR PURITY

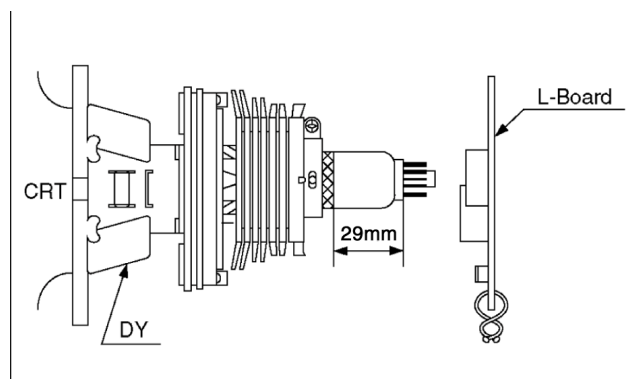
1. Operate the TV set for over 60 minutes.
2. Receive a purity pattern signal. (white pattern)
3. Set Bright and Contrast controls to their maximum positions.
4. Set V-POS to 63 DAC.
5. Adjust roughly the static convergence magnets.
6. Fully degauss the picture tube using an external degaussing coil.
7. Loosen a clamp screw for the deflection yoke and move the deflection yoke as close to the purity magnet as possible.
8. Adjust the purity magnet so that a vertical green field is obtained at the center of the screen.



9. Slowly press the deflection yoke and set it where a uniform green field is obtained.



10. Adjust roughly the Low Light controls and make sure that a uniform white field is obtained.
11. Tighten the clamp screw.



5.8. CONVERGENCE

1. INSTRUMENT

- a. Helmholtz device

2. PREPARATION

- a. Set the Helmholtz device to local magnetic field.
Horizontal: $0 \pm 0.03 \times 10^{-4}$ T
- b. Receive the cross hatch pattern.
- c. Picture menu: DYNAMIC Normal and adjust BRIGHT DAC until gray portion of cross hatch.

- d. Set DY to CRT not to tilt (up and down and left and right).

3. ADJUSTMENT

a. Static convergence Adjustment

- a. Make sure that magnets are positioned shown in Fig. 1.
- b. Adjust 4-pole magnets (Fig. 1) to align center dots of R and B and adjust 6-pole magnets to align center dots to G.
- c. After adjustment, secure magnets with magnet lock of white lacquer.
*Beams move with rotating when static magnets are turned.
Rotational reduce of beams differs by angle of two magnets.
Therefore, repeat magnet adjustments several times so that all are aligned completely.

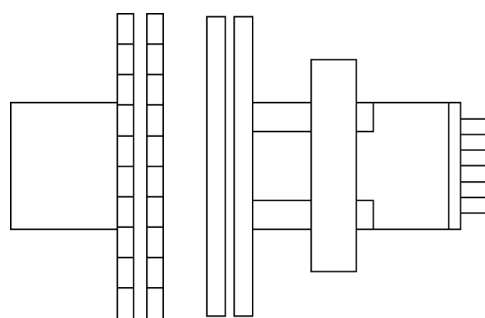


Fig. 1

b. YHC, YV, XV, Adjustment (Fig. 2)

- a. Adjust so that Static and Dynamic convergence is best with YHC, VR, YV and XV coil.
In case of static convergence is tilted, repeat (1) Static convergence Adjustment.

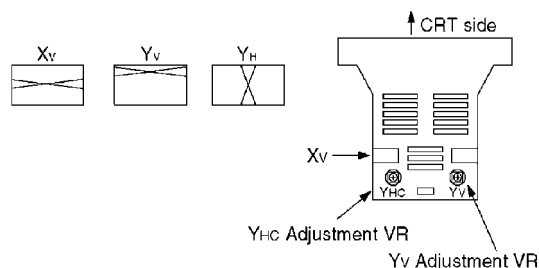


Fig. 2

c. Dynamic convergence Adjustment

- a. When dynamic convergence is bad, fixing permalloy between neck and DY so that dynamic convergence is best.
4. Confirm that left upper side line is straight.
When left upper side line isn't straight, put magnet on DY and adjust the left upper side line to straight.

5.9. CUT OFF

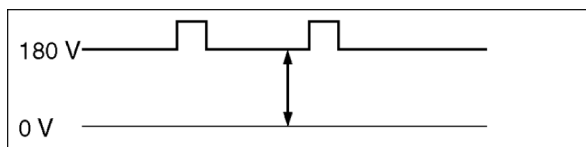
Preparation

1. Receive a colour bar signal with colour "OFF" and operate the TV set more than 15 minutes.
2. Set the picture menu to "DYNAMIC NORMAL" and the AI to off.
3. Connect an oscilloscope to TPL7 with DC mode.
4. Set the TV set to Service Mode 1.
5. Screen VR: Min.
6. Set the data level of SUB BRIGHT, R, G, B-CUTOFF and R, G, B-DRIVE to the table values.

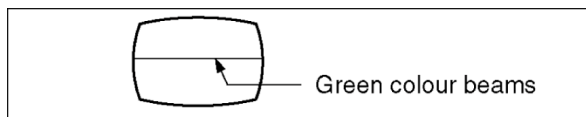
Display	Data Level
R High (R-CUT OFF)	256
G High (G-CUT OFF)	512
B High (B-CUT OFF)	256
R Low (R-DRIVE)	128
G Low (G-DRIVE)	128
B Low (B-DRIVE)	128
SUB BRIGHT	136

Adjustment

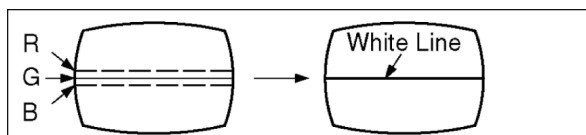
1. Select G-CUTOFF adjustment mode and collapse vertical scan.
2. Adjust G-CUTOFF control to become the DC = 0V to video level at 180V as shown below.



3. Slowly turn the screen control clockwise until a green colour horizontal line appears on the picture tube. This is the setting point for the screen control.
Note that do not adjust the G-CUTOFF setting in the following procedure.



4. Adjust the remained R and B-CUTOFF controls so as to get a white horizontal line on the screen.

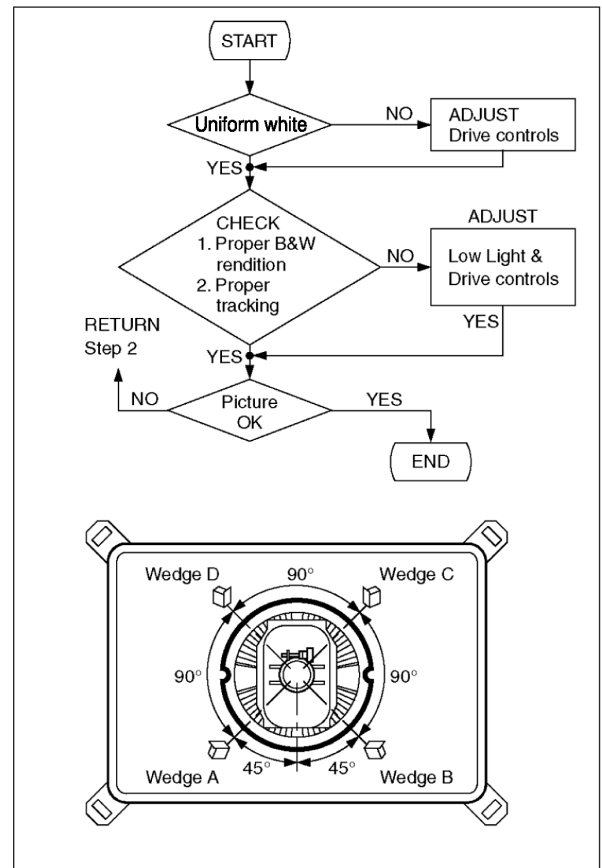


5. Return to full field SCAN by pushing the position 5 key on the remote control.
6. Adjust the R-Drive and B-Drive controls as to obtain uniform white on the white bar of the greyscale pattern.

7. Confirm correct B/W rendition and greyscale tracking or repeat CUTOFF and drive control setup.

Note:

Write down the original value for each address adjustment before adjusting anything.



(Fig. 1)

8. Wedge A shown in Fig. 1 should be fixed within a range of 45° to the left of the vertical line as shown.
9. After inserting wedge A, insert wedges B, C and D. The wedges should be set 90° apart from each other.
10. Be certain that the four wedges are firmly fixed and the deflection yoke is tightly clamped in place otherwise the deflection yoke may shift its position and cause a loss of convergence and purity.

5.10. WHITE BALANCE

Item/Preparation	Adjustment Procedure
1. Select Service Mode 1. 2. Aging should have been performed over 30 minutes 3. Receive the white balance pattern. 4. Picture menu: DYNAMIC NORMAL AI: OFF 5. Degauss the CRT face. 6. Connect the photo sensors of the Colour Analyser to the CRT. Note: CRT cut off adjustment is completed.	1. Adjustment of Low Light - Adjustment SUB BRIGHT, so that "Y" axis indicates 6.5 - Adjustment R-CUT OFF, so that y axis indicates 0.241 ± 0.005. - Adjustment B-CUT OFF, so that x axis indicates 0.241 ± 0.005. 2. Adjustment of High Light - Adjust SUB BRIGHT, so that "Y" axis indicates 90. - Adjust R-DRIVE, so that y axis indicates 0.258 ± 0.003. - Adjust B-DRIVE, so that x axis indicates 0.258.

5.11. FOCUS

Item/Preparation	Adjustment Procedure
1. Receive a cross-hatch pattern signal.	1. Adjust the Focus to thin all the Lines by Focus 1 Control. (Prefer to thin the Vertical Lines than Horizontal Line.) 2. Adjust the Focus to thin the Horizontal Lines by Focus 2 Control. FOCUS1 FOCUS2

5.12. GEOMAGNETIC

Item/Preparation	Adjustment Procedure
1. Demagnetize the GM-Board around its perimeter with the Demagnetizer. 2. Set to control: Geomagnetic.....Auto	1. Connect a DC voltage meter to TPGM1-2pin (GM-Board) 2. Adjust the R4863 (GM-Board) so that the Vx Out at TPGM2-4pin becomes $3.9 \pm 0.1 \text{ V}$ 3. Connect a DC voltage meter to TPGM1-1pin (GM Board). 4. Adjust the R4861 (GM-Board) so that the Vy Out at TPGM1-4pin becomes $3.8 \pm 0.1 \text{ V}$

5.13. SUB BRIGHT

Item/Preparation	Adjustment Procedure
1. Receive the sub bright pattern. 2. Picture Menu: BRT.....CENTER COLOUR.....CENTER CONT.....MAX 3. Connect the photo sensor of the Colour Analyser to the center of the CRT.	1. Adjust Sub Bright so that brightness level becomes $1 \pm 0.2 \text{ cd/m}^2$.

6 DEFLECTION ADJUSTMENT

6.1. V-Adjustment / Confirmation (4:3 Mode)

6.1.1. V-CENTER ADJUSTMENT (4:3 MODE)

6.1.1.1. 100iV-POS ADJUSTMENT

1. Receive PAL monoscope pattern E11. (Scan mode = AUTO)
2. Adjust V-POS so that the scale of the top and bottom side is equal.

6.1.2. V-HEIGHT ADJUSTMENT (4:3 MODE)

6.1.2.1. 100i V-AMP ADJUSTMENT

1. Receive PAL monoscope pattern E11. (Scan mode = AUTO)
2. Adjust V-AMP so that B, D (Fig. 2) is 2.0 ± 0.1

6.1.2.2. 120i V-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern US13. (Scan mode = 100Hz)
2. Adjust V-AMP so that B, D (Fig. 2) is 2.0 ± 0.1

6.1.2.3. 50p V-AMP ADJUSTMENT

1. Receive PAL monoscope pattern E11. (Scan mode = PROGRESSIVE)
2. Adjust V-AMP so that B, D (Fig. 2) is 2.0 ± 0.1

6.1.2.4. 60p V-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern US13. (Scan mode = AUTO)
2. Adjust V-AMP so that B, D (Fig. 2) is 2.0 ± 0.1

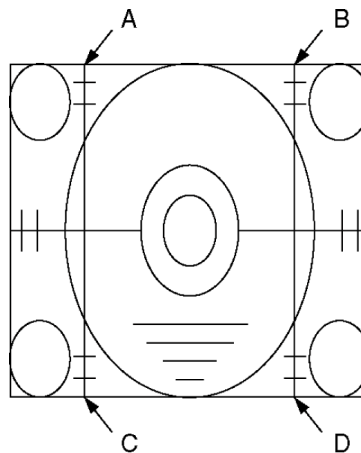


Fig. 17

6.2. H-Deflection Confirmation / Adjustment (4:3 Mode)

6.2.1. H-CENTER ADJUSTMENT (4:3 MODE)

6.2.1.1. 100i H-POS ADJUSTMENT

1. Receive PAL monoscope pattern E11.
2. Set scan mode to AUTO 100Hz.
3. Adjust H-POS so that the horizontal position is center of CRT.

6.2.2. H-WIDTH ADJUSTMENT (4:3 MODE)

6.2.2.1. 100i H-AMP ADJUSTMENT

1. Receive PAL monoscope pattern E11.
2. Set scan mode to AUTO 100Hz.
3. Adjust H-AMP so that both of edges are within A, B = 2.5 ± 0.2 .

6.2.2.2. 120i H-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern US13.
2. Set scan mode to 100Hz.
3. Adjust H-AMP so that both of edges are within A, $B = 2.25 \pm 0.2$.

6.2.2.3. 50p H-AMP ADJUSTMENT

1. Receive PAL monoscope pattern E11.
2. Set scan mode to progressive.
3. Adjust H-AMP so that both of edges are within A, $B = 2.5 \pm 0.2$.

6.2.2.4. 60p H-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern US13.
2. Set scan mode to AUTO.
3. Adjust H-AMP so that both of edges are within A, $B = 2.25 \pm 0.2$.

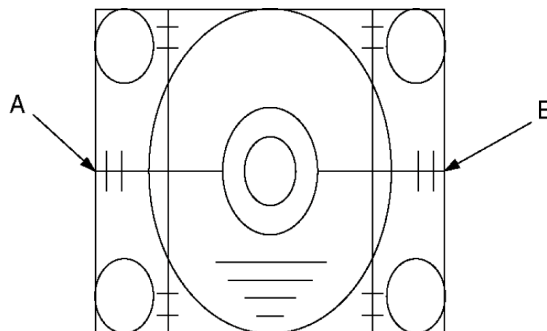


Fig. 18

6.2.3. ANGLE AND BOW CONFIRMATION / ADJUSTMENT

6.2.3.1. 100i ADJUSTMENT (4:3 MODE)

1. Receive PAL crosshatch pattern E4. (Scan mode = AUTO)
2. Confirm the vertical line to straight as in fig. 3a, if needed adjust Angle
3. Confirm the center vertical line to straight as in fig. 3b if needed adjust Bow.

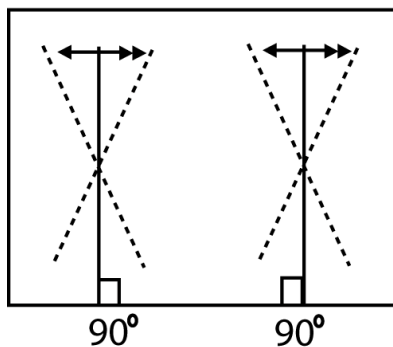


Fig. 3a

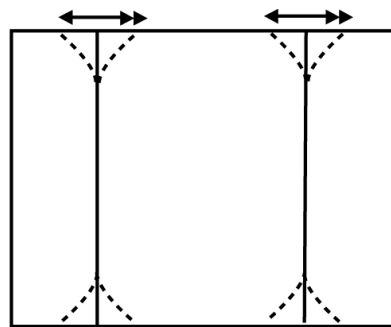


Fig. 3b

6.3. EW Adjustment / Confirmation (4:3 MODE)

6.3.1. 100i EW ADJUSTMENT (4:3 MODE)

1. Receive PAL crosshatch pattern E4. (Scan mode = AUTO)
2. Adjust the vertical line to straight line by Ew-Amp.
3. Adjust the vertical line to straight line of bothside vertical line in Fig. 4a by Trapez
4. Confirmation of EW at the corner side.
If need adjust Upper-Corner and Lower-Corner as Fig. 4b.

6.3.2. 120i EW ADJUSTMENT (4:3 MODE)

1. Receive NTSC crosshatch pattern JA7. (Scan mode = 100Hz)
2. Adjust the vertical line to straight line by EW-AMP
3. Adjust the vertical line straight line of bothside vertical line in Fig. 4a by Trapez.
4. Confirmation of EW at the corner side.
If need adjust Upper-Corner and Lower-Corner as Fig. 4b.

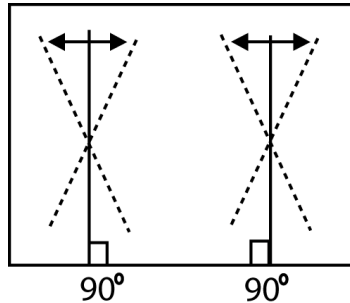


Fig. 4a

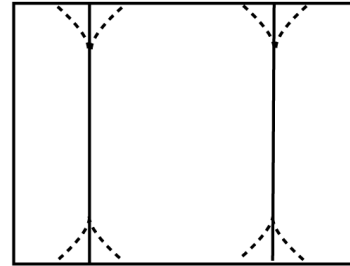


Fig. 4b

6.3.3. 50p EW ADJUSTMENT (4:3 MODE)

1. Receive PAL crosshatch pattern E4. (Scan mode =PROGRESSIVE)
2. Adjust the vertical line to straight line by EW-AMP
3. Adjust the vertical line straight line of bothside vertical line in Fig. 5a by Trapez.
4. Confirmation of EW at the corner side.
If need adjust Upper-Corner and Lower-Corner as Fig. 5b.

6.3.4. 60p EW ADJUSTMENT (4:3 MODE)

1. Receive NTSC crosshatch pattern JA7. (Scan mode =AUTO)
2. Adjust the vertical line to straight line by EW-AMP
3. Adjust the vertical line straight line of bothside vertical line in Fig. 5a by Trapez.
4. Confirmation of EW at the corner side.
If need adjust Upper-Corner and Lower-Corner as Fig. 5b.

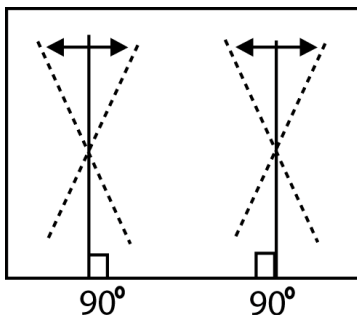


Fig. 5a

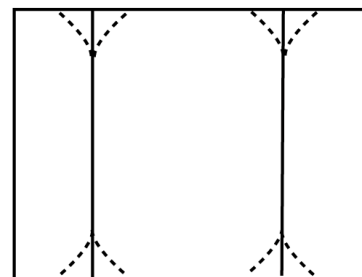


Fig. 5b

6.4. 525p (YUV) DEFLECTION (4:3 MODE) ADJUSTMENT / CONFIRMATION

1. Receive 525p signal through YUV input.
2. Set signal generator to 525p 60Hz monoscope & crosshatch pattern.
3. For deflection adjustment procedure follow 60p (4:3 mode) adjustment and specification.

6.5. 525p (YUV) DEFLECTION (16:9 MODE) CONFIRMATION.

1. Set to 16:9 mode.
2. Confirm deflection adjustment follow 60p (16:9 mode) specification.

6.6. 625p (YUV) DEFLECTION (4:3 MODE) CONFIRMATION.

1. Receive 625p signal through YUV input.
2. Set signal generator to 625p 50Hz monoscope & crosshatch pattern.
3. For deflection adjustment procedure follow 50p (4:3 mode) adjustment and specification.

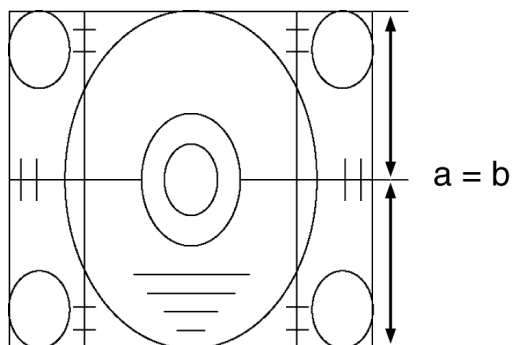
6.7. 625p (YUV) DEFLECTION (16:9 MODE) CONFIRMATION.

1. Set to 16:9 mode.
2. Confirm deflection adjustment follow 50p (16:9 mode) specification.

6.8. V-LINEAR ADJUSTMENT / CONFIRMATION (4:3 MODE)

6.8.1. 100i V-LINEAR ADJUSTMENT (4:3 MODE)

1. Receive PAL monoscope pattern E11. (Scan mode = AUTO)
2. Confirm V-Linear as fig. 6
If need adjust V-Lin.



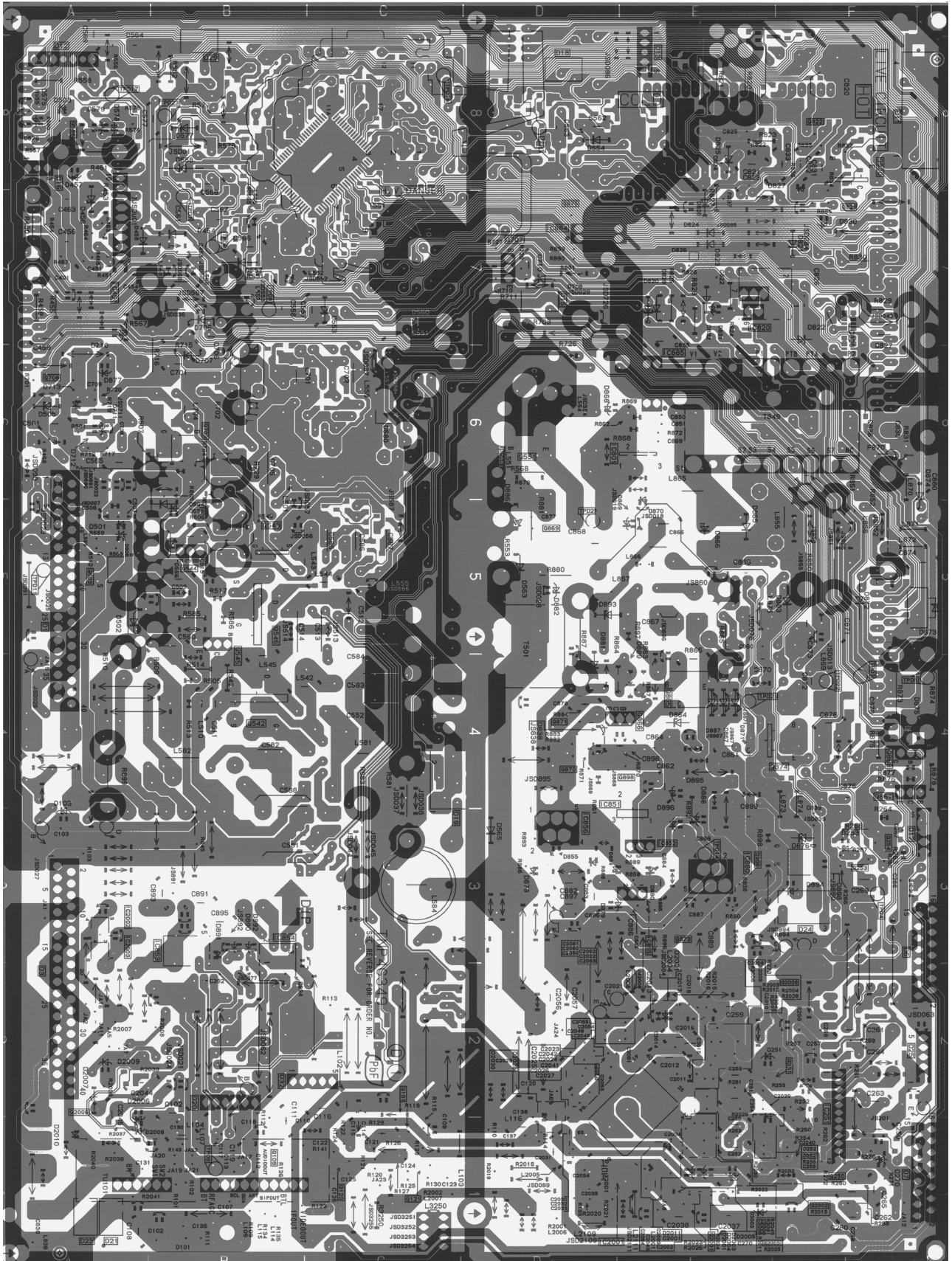
6.9. Table 1

GP2 DEFLECTION ADJUSTMENT (PRODUCTION REFERENCE)

	100i (PAL)	100i (PAL)	120i (NTSC)	120i (NTSC)	50p (PAL)	50p (PAL)	60p (NTSC)	60p (NTSC)	525p (YUV)	525p (YUV)	625 (YUV)	625p (YUV)
Parameter	4:3	16:9	4:3	16:9	16:9	16:9	16:9	16:9	16:9	16:9	4:3	16:9
H-POS	ADJ 2E4	-	-	-	-	-	-	-	-	-	-	-
V-POS	ADJ 2E4	-	-	-	-	-	-	-	-	-	-	-
H-Amp	ADJ E30	-	ADJ E31	-	ADJ E32	-	ADJ E33	-	ADJ E35	-	ADJ E34	-
V-Amp	ADJ E39	-	ADJ E3A	-	ADJ E38	-	ADJ E3C	-	ADJ E3E	-	ADJ E3D	-
EW-Amp	ADJ E42	-	ADJ E43	-	ADJ E44	-	ADJ E45	-	ADJ E47	-	ADJ E46	-
Lower Corner	ADJ E48	-	ADJ E4C	-	ADJ E4D	-	ADJ E4E	-	ADJ E50	-	ADJ E4F	-
Trapez 1	ADJ E54	-	ADJ E55	-	ADJ E56	-	ADJ E57	-	ADJ E59	-	ADJ E58	-
Upper Corner	ADJ E5D	-	ADJ E5E	-	ADJ E5F	-	ADJ E60	-	ADJ E62	-	ADJ E61	-
V-Lin	ADJ 2A7	-	-	-	-	-	-	-	-	-	-	-
V-Sym	FIX[*] 2E4	-	-	-	-	-	-	-	-	-	-	-
Angle	ADJ 2C4	-	-	-	-	-	-	-	-	-	-	-
Bow	ADJ 2C8	-	-	-	-	-	-	-	-	-	-	-

7 CONDUCTOR VIEWS

7.1. D-Board



8 SCHEMATIC DIAGRAMS

8.1. SCHEMATIC DIAGRAM NOTES

Important Safety Notice

Components identified by $\triangle$ 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 [Ω] (K=1,000, M=1,000,000).

$\bigcirc$	: Nonflammable	$\boxtimes$	: Metal Oxide
$\triangle$	: Solid	$\odot$	: Metal Film
$\boxplus$	: Wire Wound	$\otimes$	: Fuse:

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is μ F, unless otherwise noted.

$\otimes$	: Temperature Compensation	$\overset{+}{\text{---}}\text{---}$	: Electrolytic
$\textcircled{M}$	: Polyester	$\overset{NP}{\text{---}}\text{---}$	: Bipolar
$\textcircled{m}$	: Metalized Polyester	$\textcircled{T}$	: Dipped Tantalum
$\boxtimes$	: Polypropylene	$\textcircled{Z}$	: Z-Type

3. Coil

Unit of inductance is μ F, unless otherwise noted.

4. Test Point

$\bigcirc$: Test Point position

5. Earth Symbol

π : Chassis Earth (Cold) $\downarrow$: Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source AC 110-240V, 50/60 Hz

Receiving Signal Colour Bar signal (RF)

All customer's controls Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table.)

8. When arrow mark ($\nearrow$) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. $\Rightarrow$: Video $\Rightarrow$: Audio

10. This schematic diagram is the latest at the time of printing and 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. Take the following precautions.

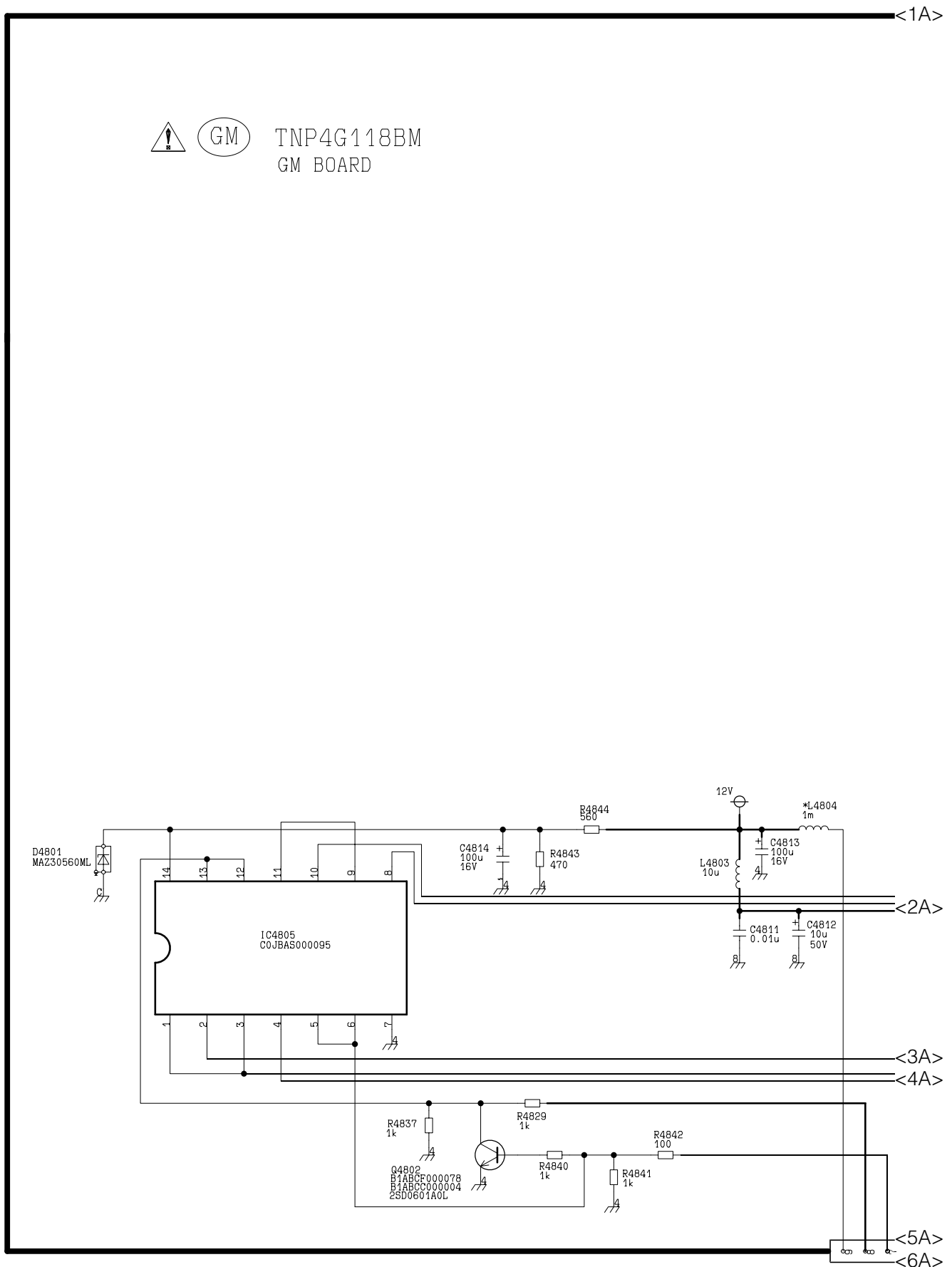
All circuits, except the Power Circuit, are cold.

Precautions

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150- MA162 (Replacement part)

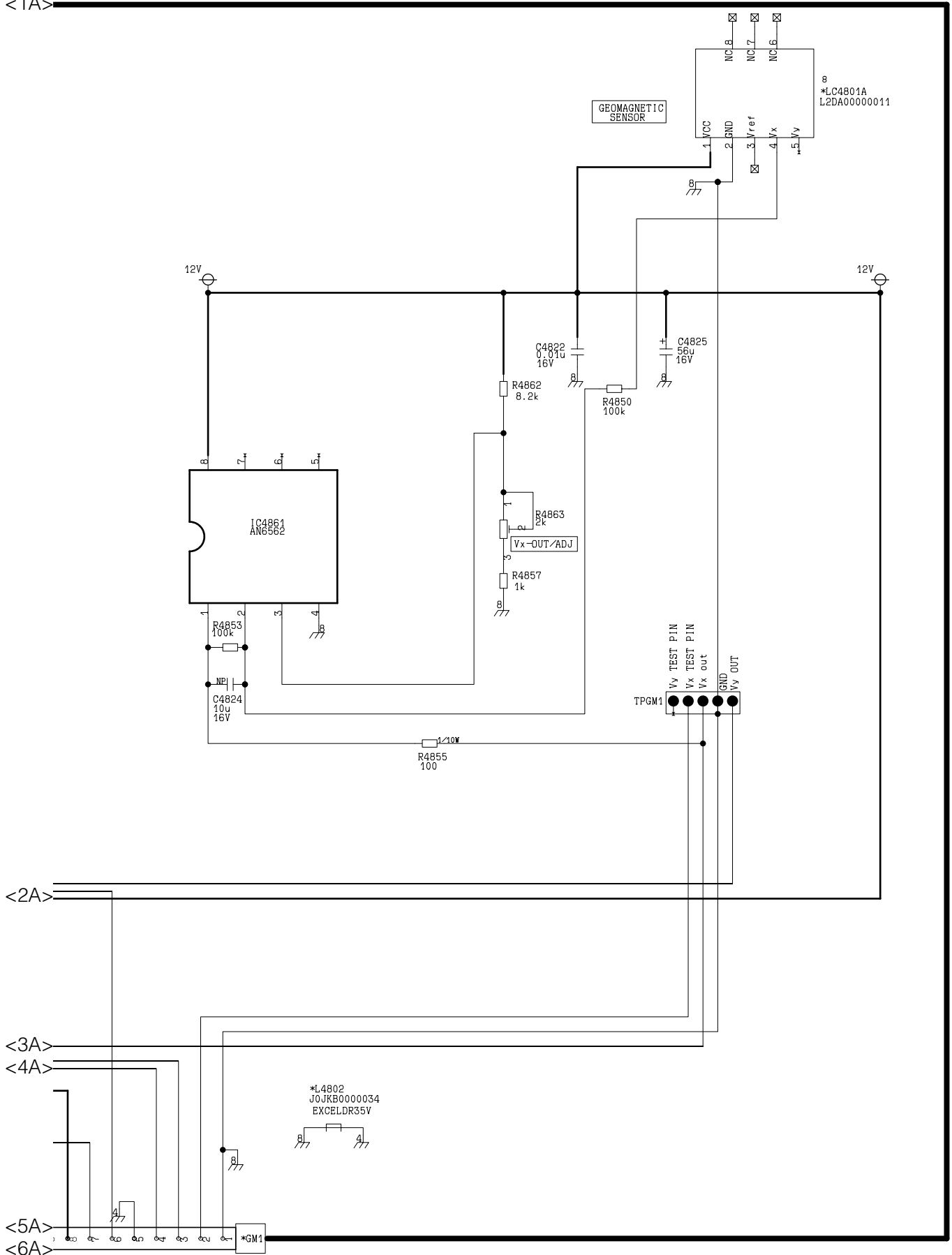
8.2. GM BOARD

8.2.1. GM BOARD 1 / 2



8.2.2. GM BOARD 2 / 2

<1A>



<2A>

<3A>

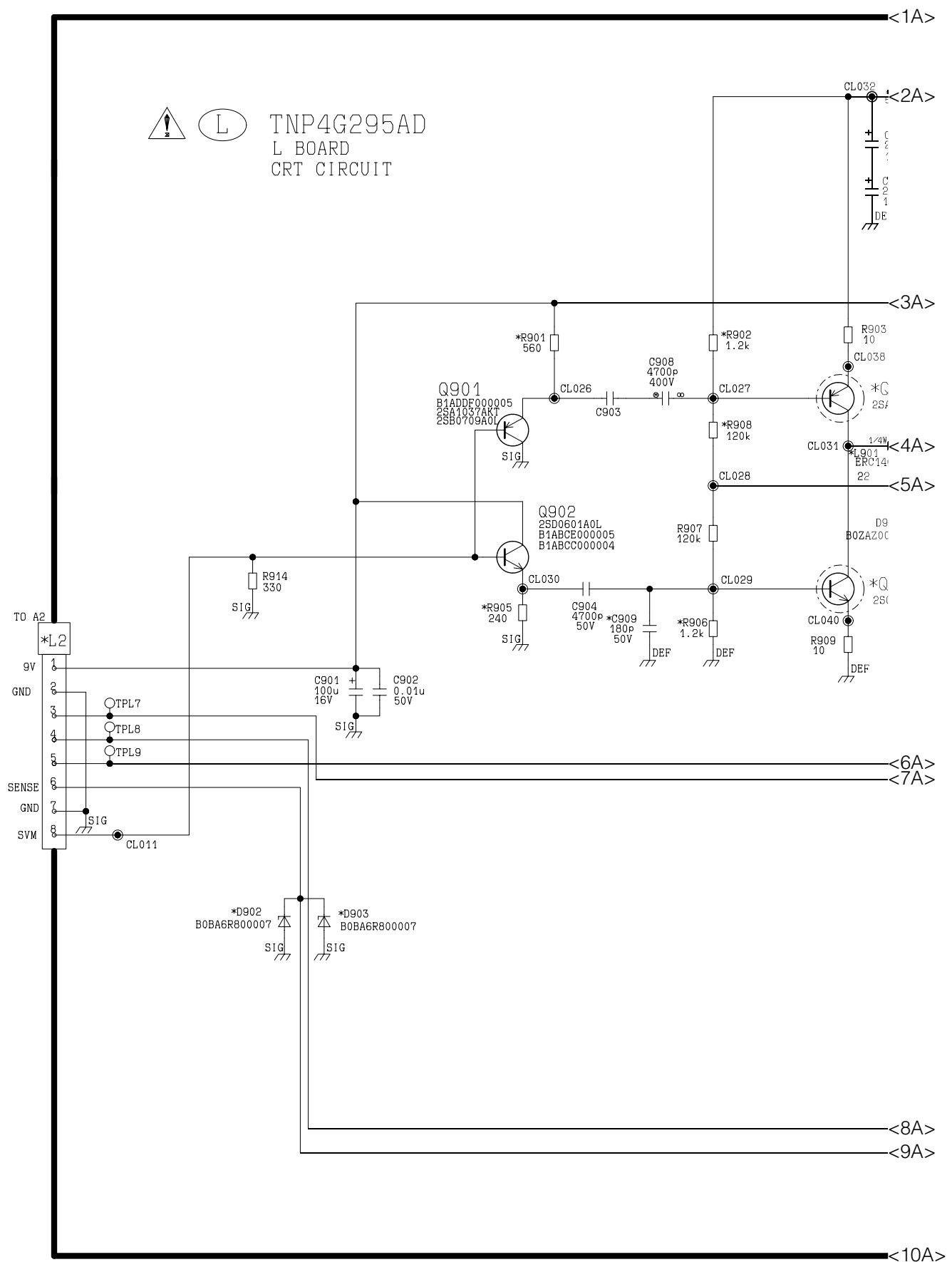
<4A>

<5A>

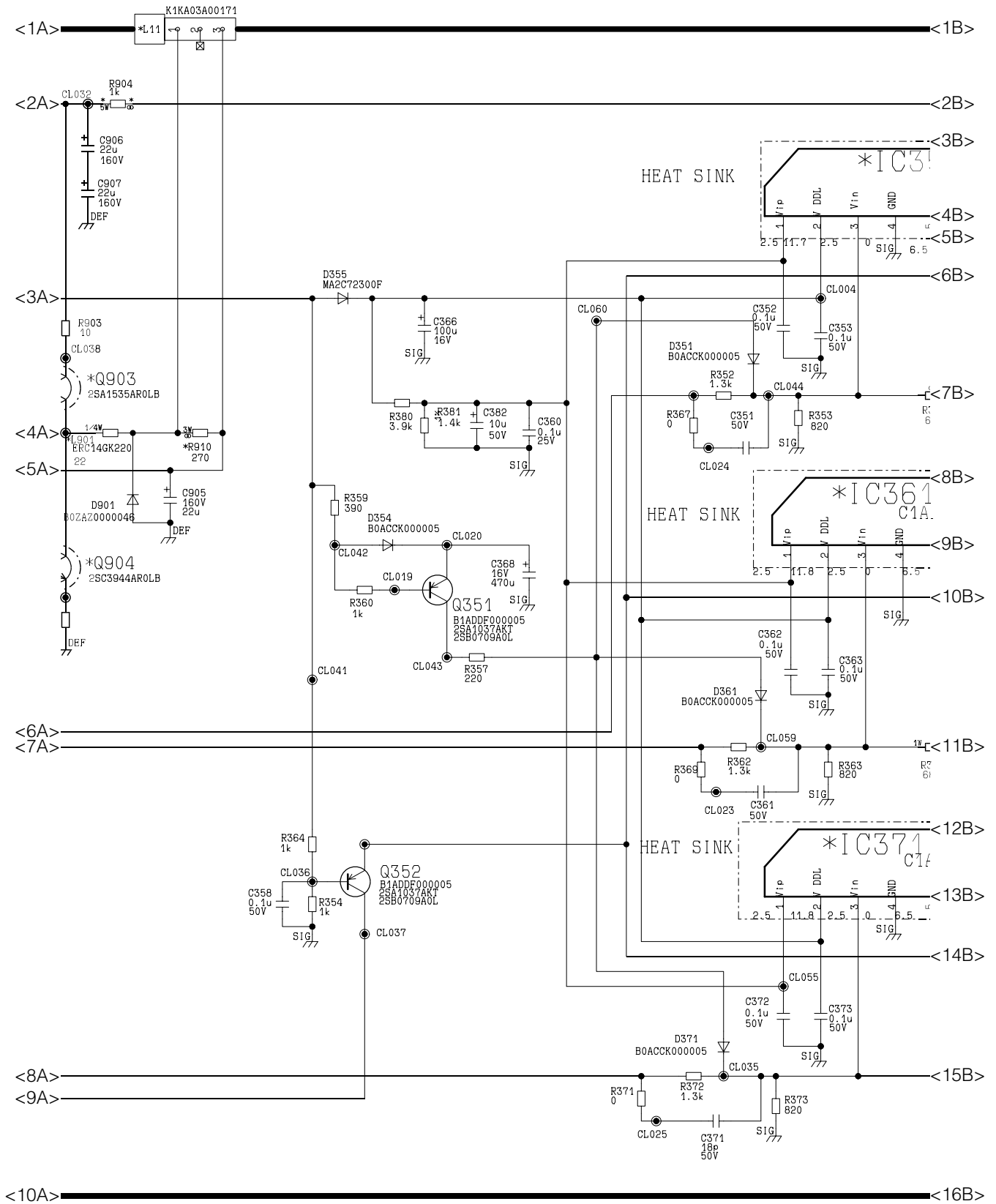
<6A>

8.3. L BOARD

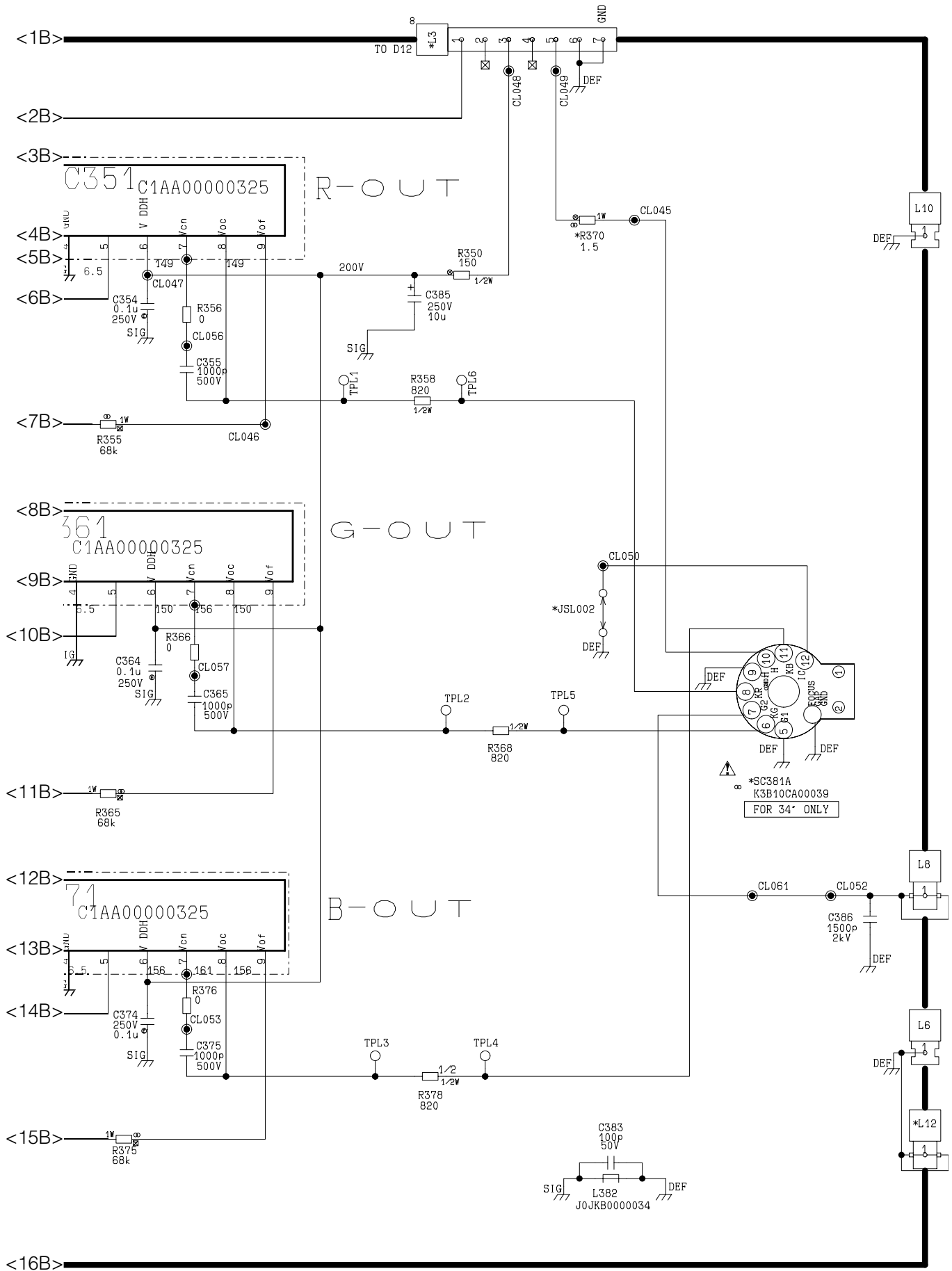
8.3.1. L BOARD 1 / 3



8.3.2. L BOARD 2 / 3

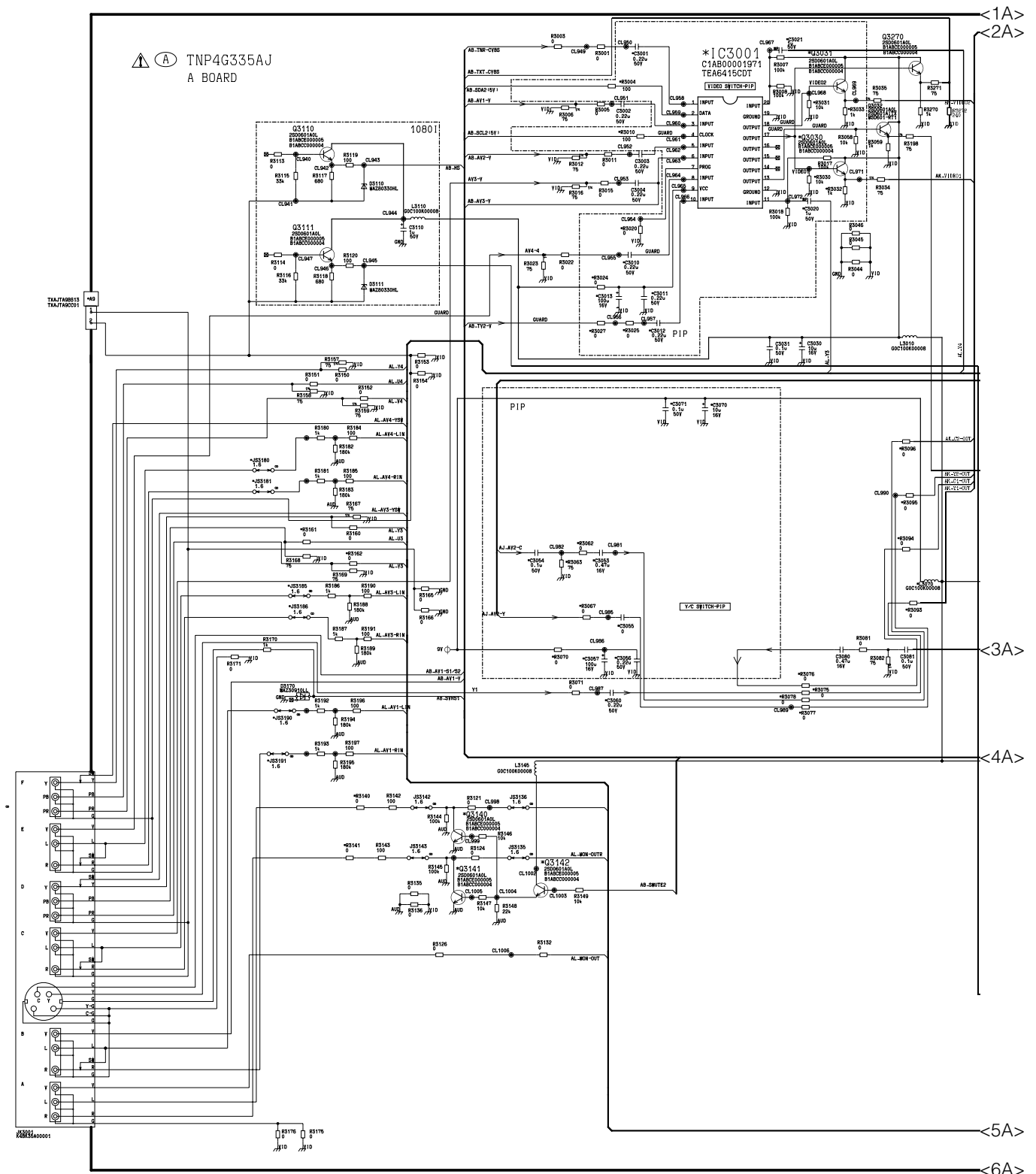


8.3.3. L BOARD 3 / 3

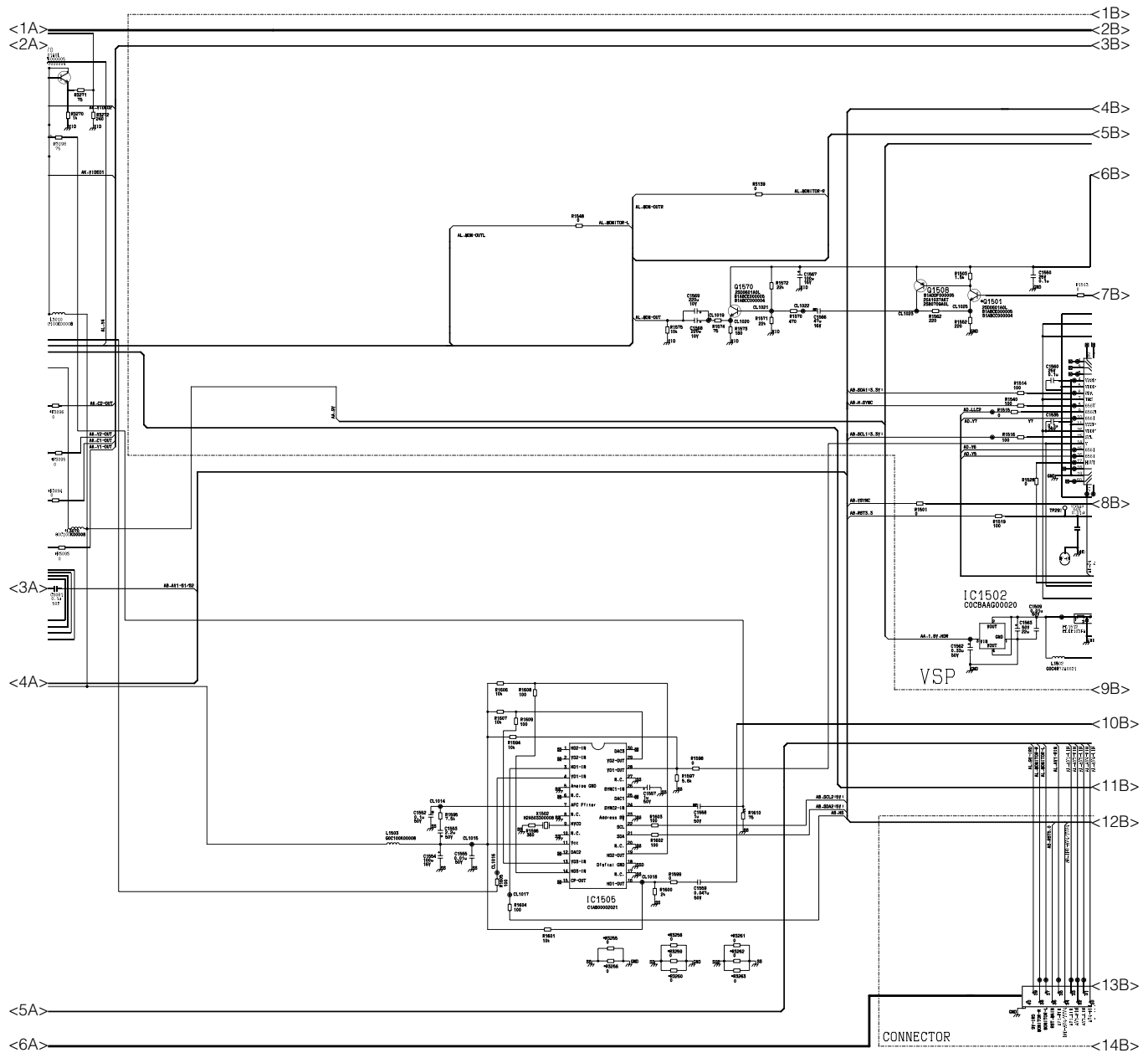


8.4. A BOARD

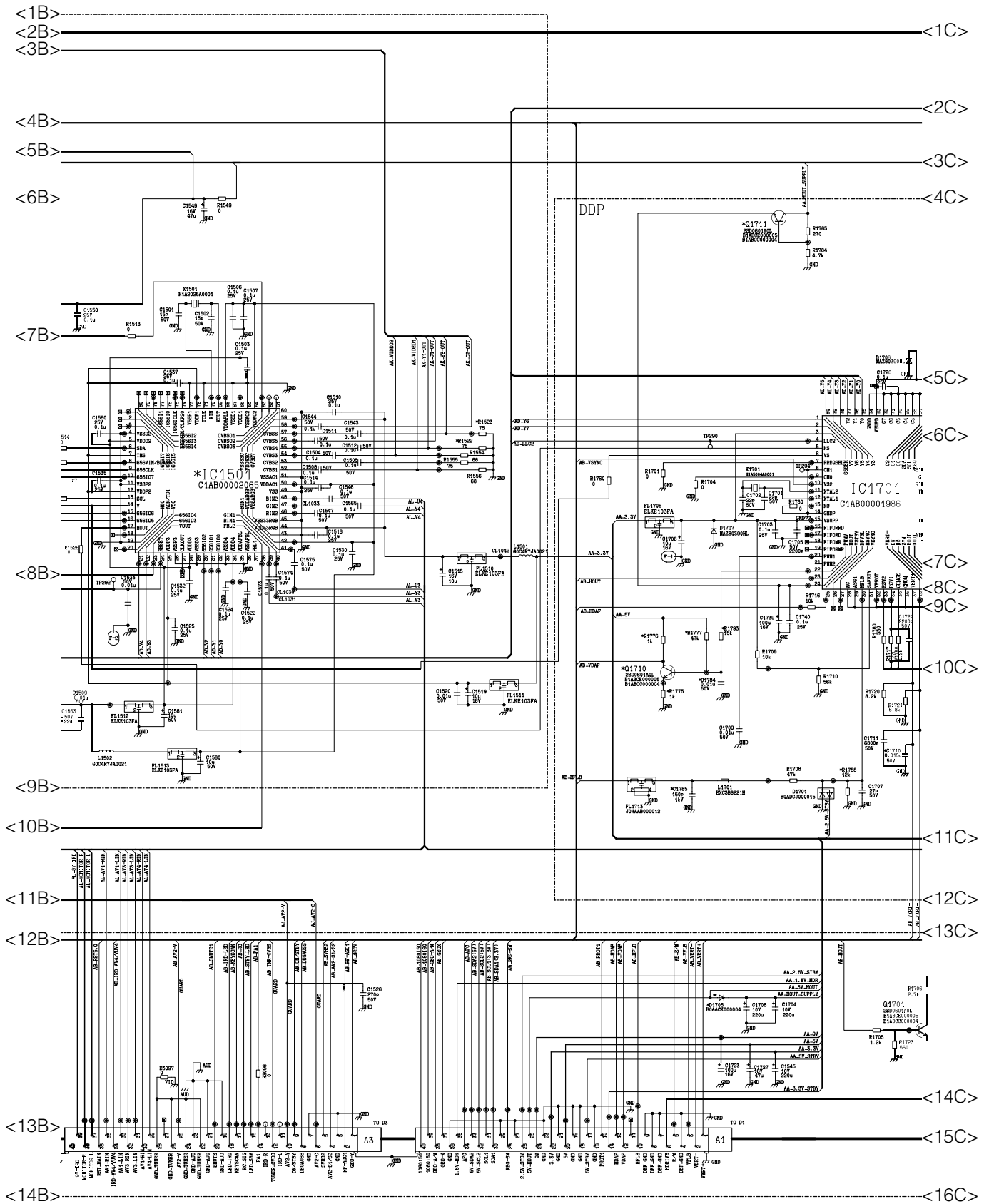
8.4.1. A BOARD 1 / 5



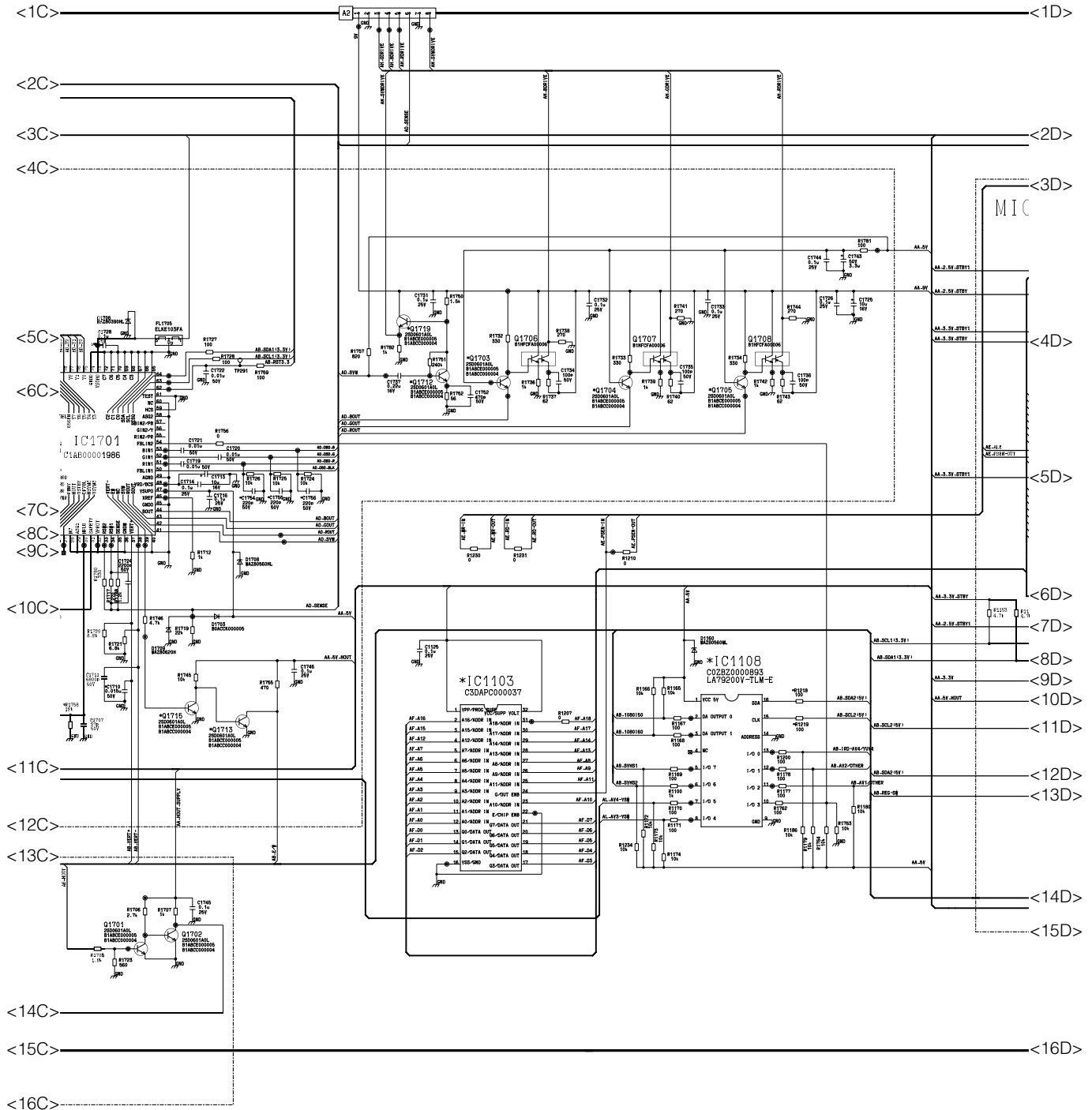
8.4.2. A BOARD 2 / 5



8.4.3. A BOARD 3 / 5



8.4.4. A BOARD 4 / 5

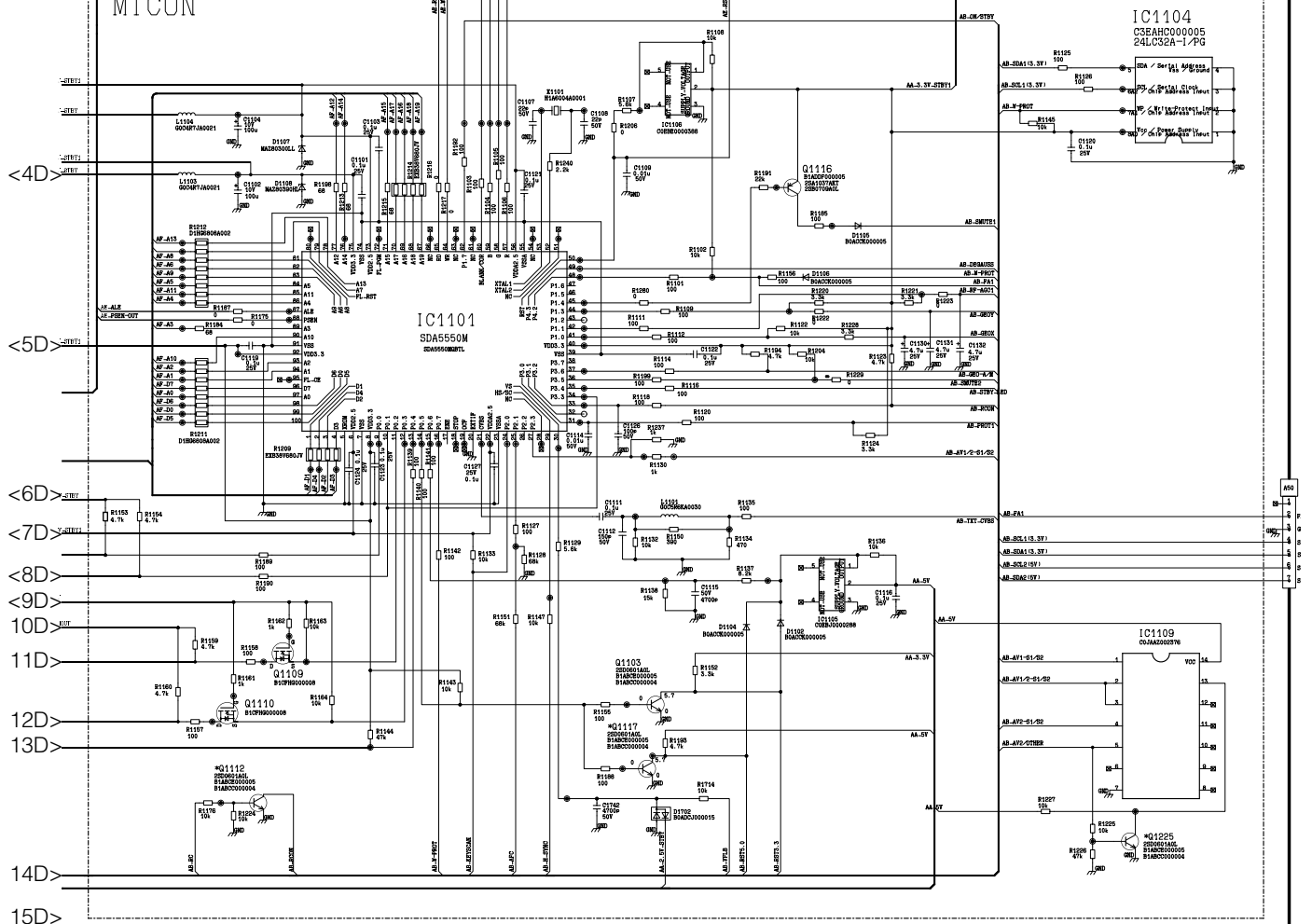


8.4.5. A BOARD 5 / 5

<1D>-

<2D>

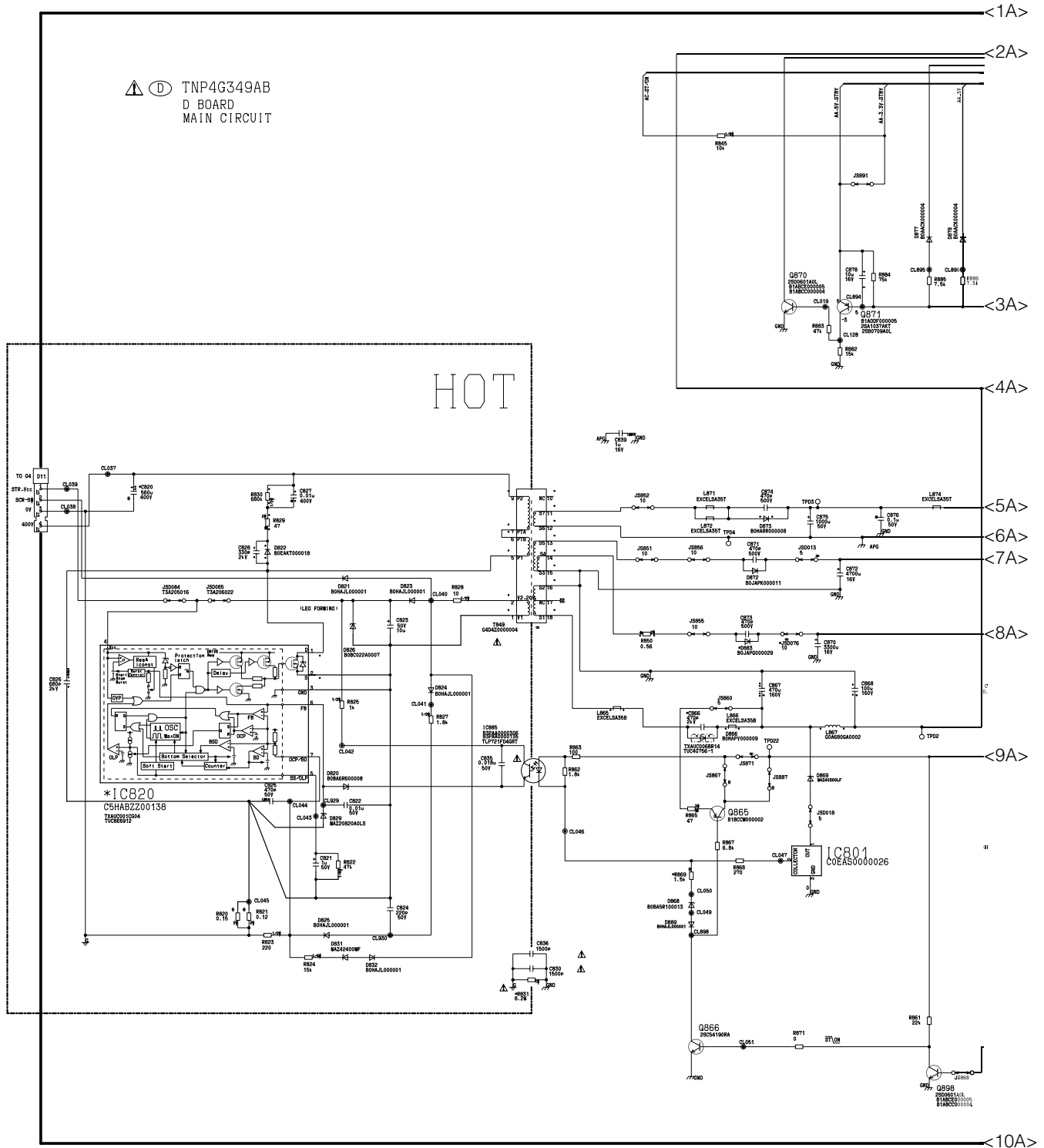
<3D>



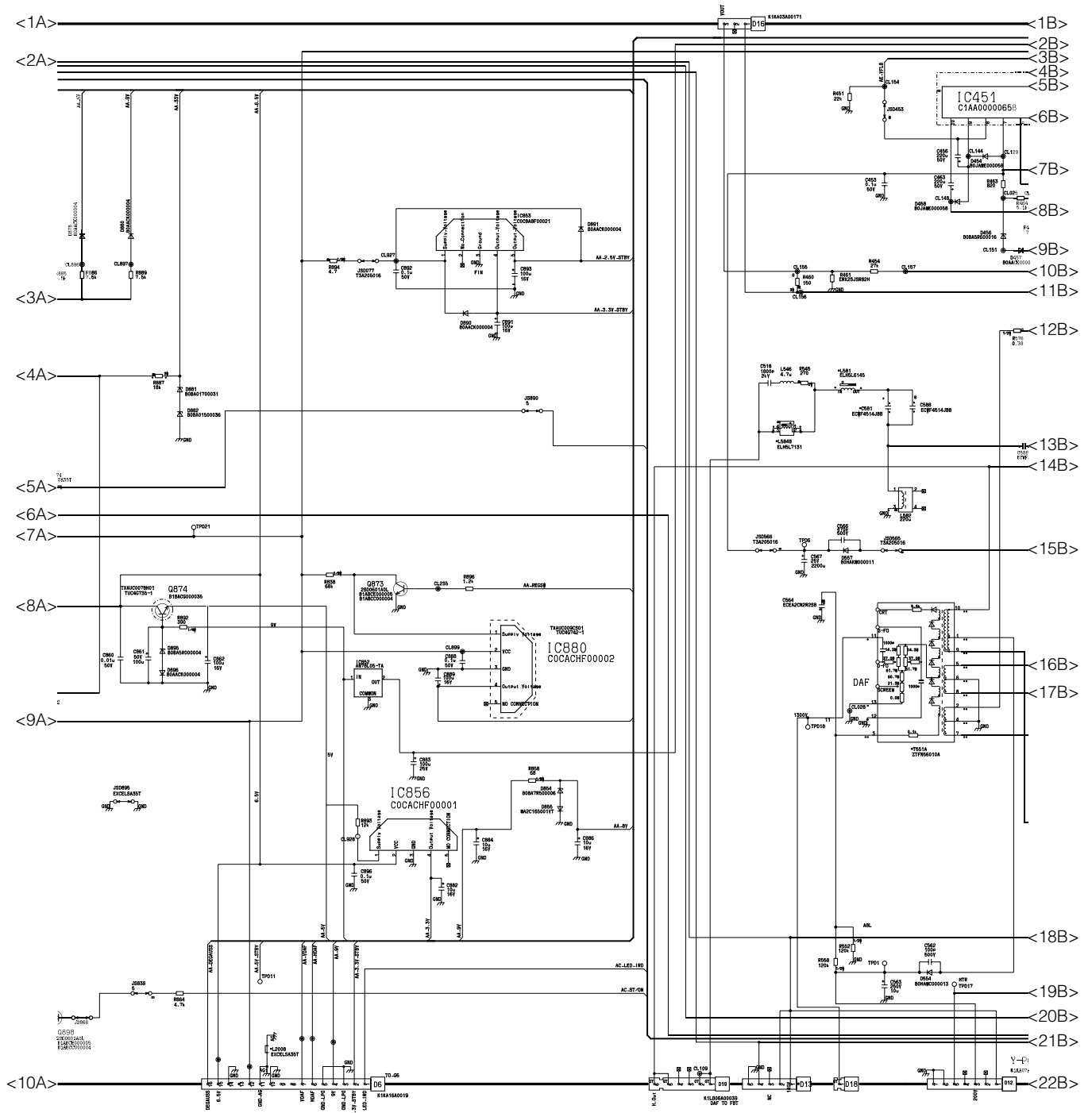
16D>

8.5. D BOARD

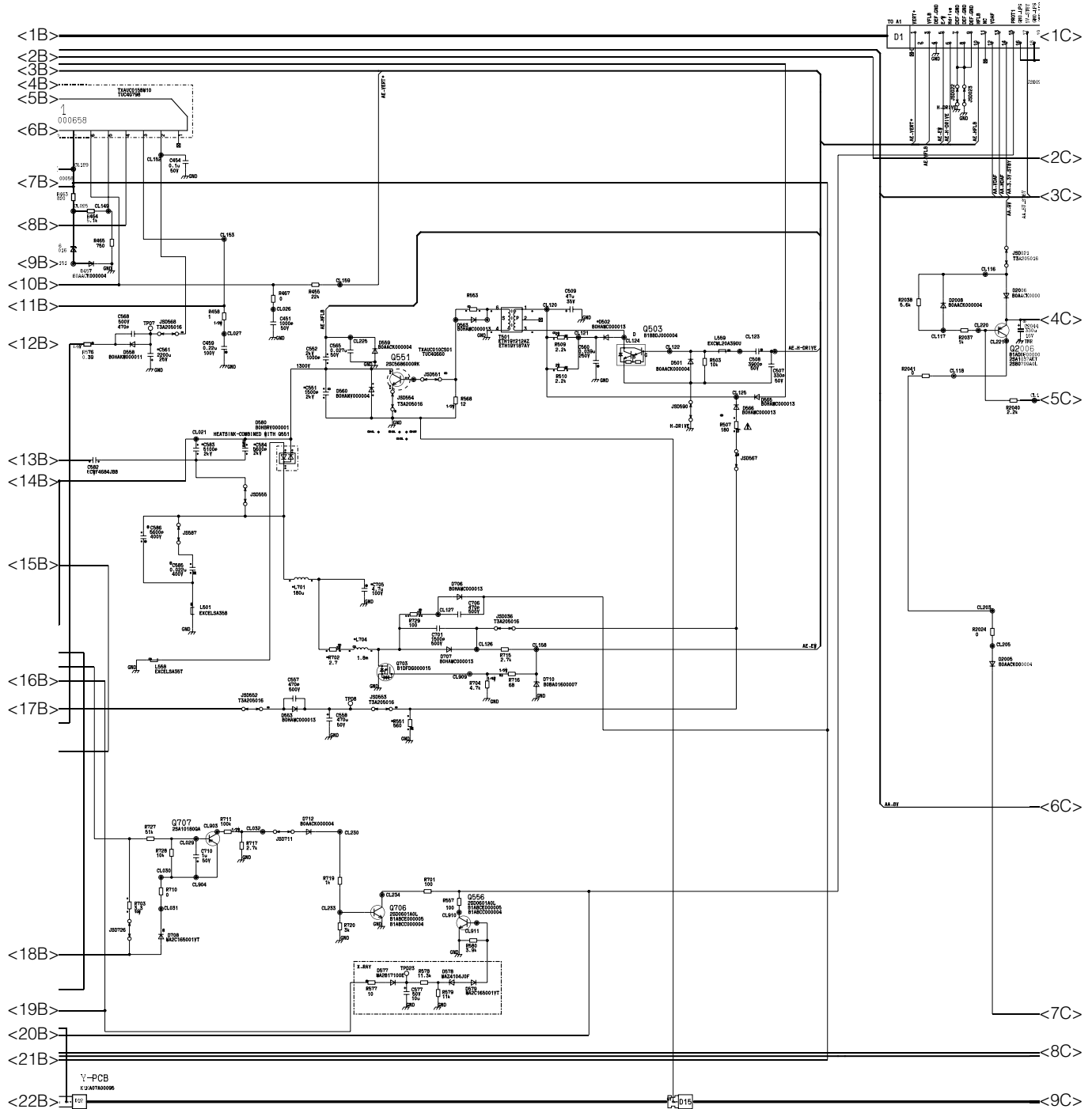
8.5.1. D BOARD 1 / 5



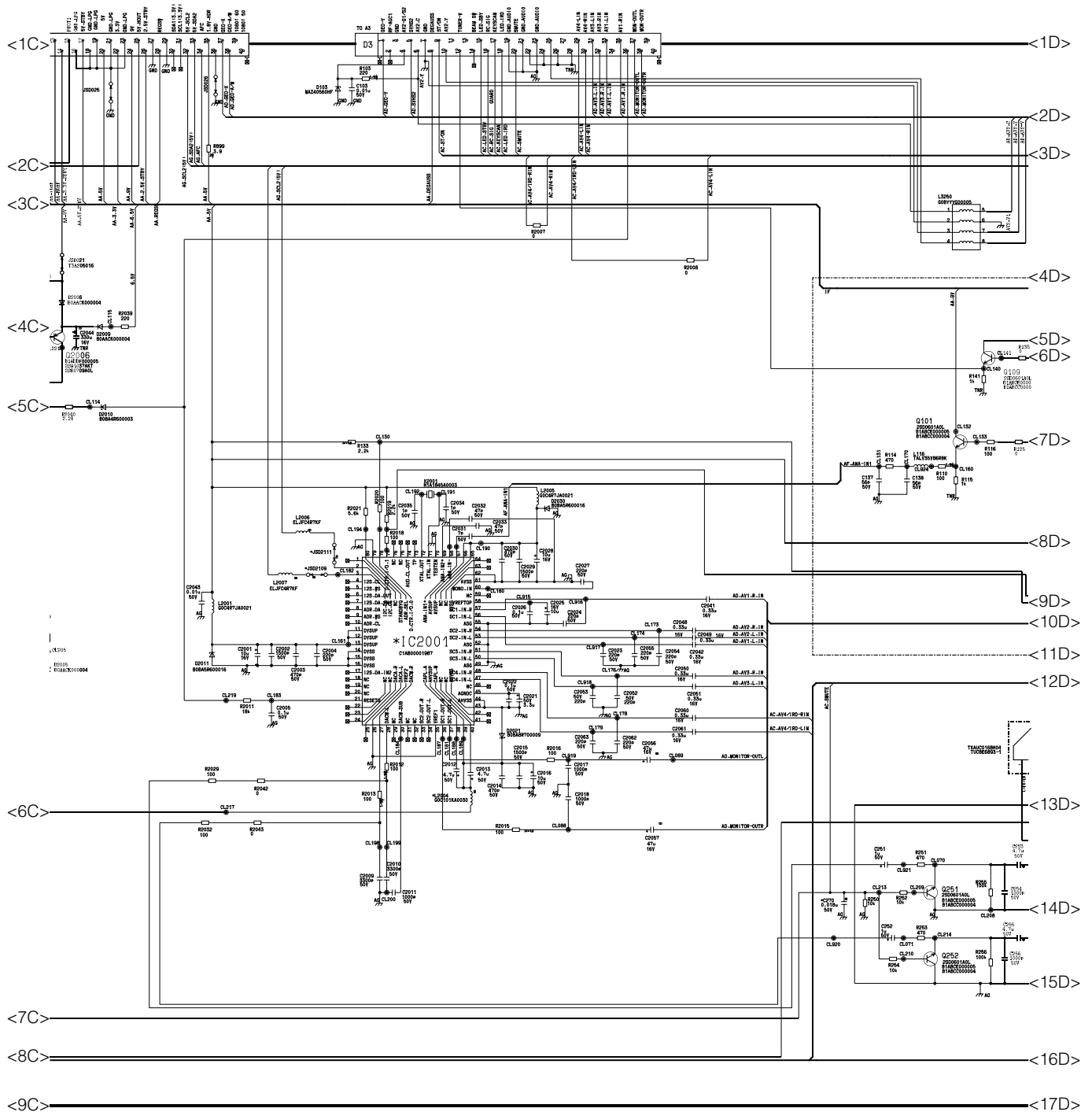
8.5.2. D BOARD 2 / 5



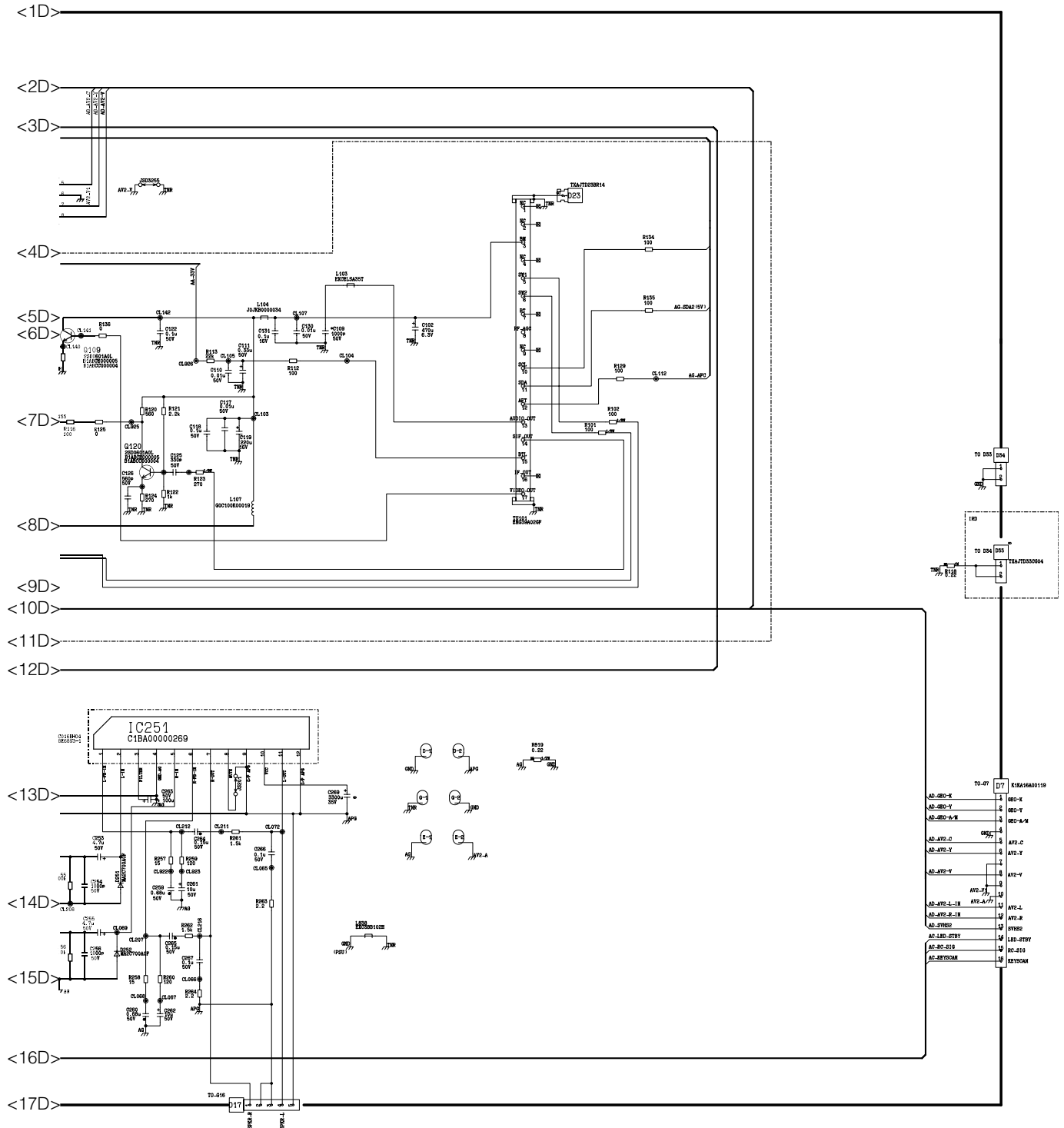
8.5.3. D BOARD 3 / 5



8.5.4. D BOARD 4 / 5

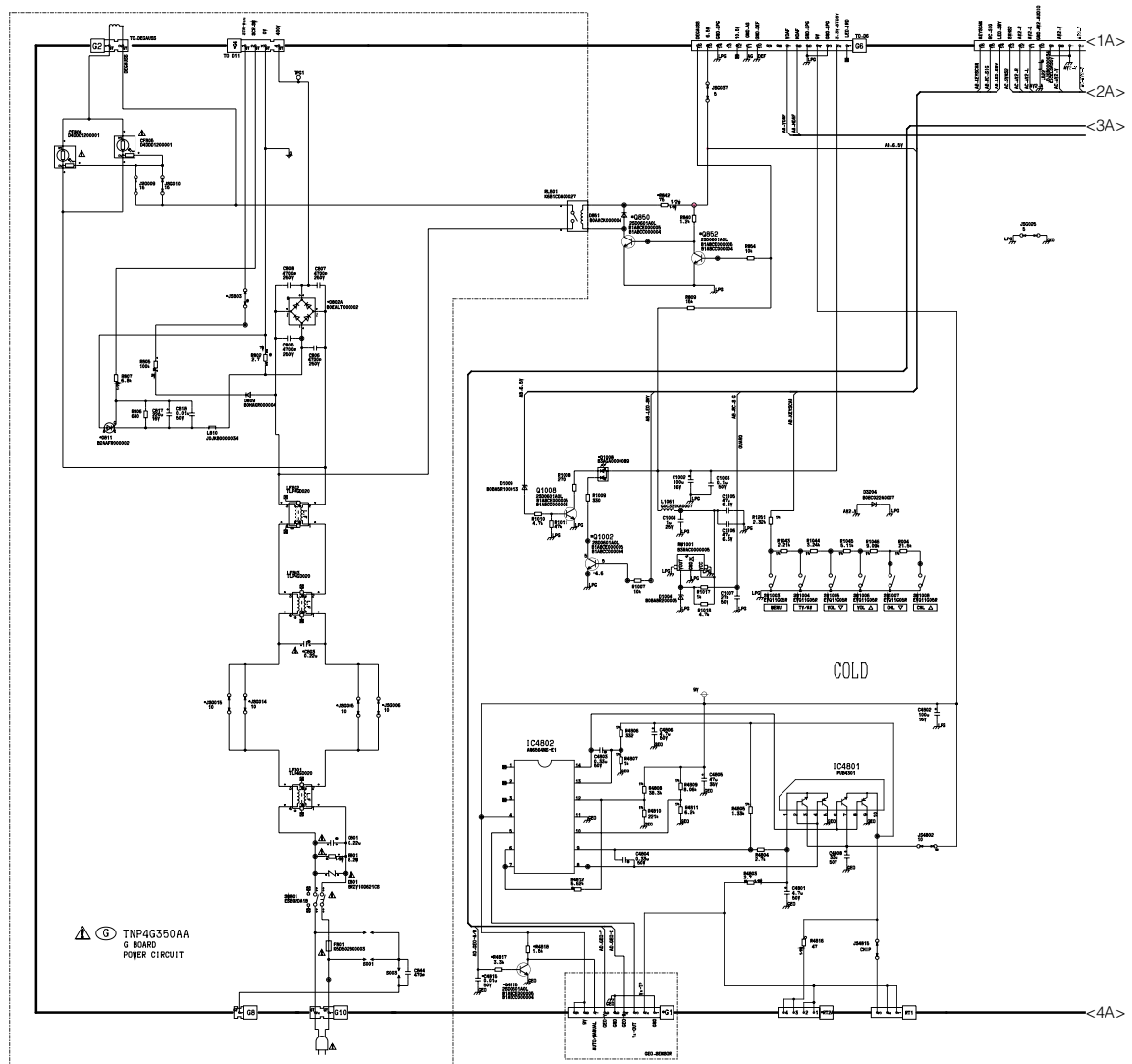


8.5.5. D BOARD 5 / 5

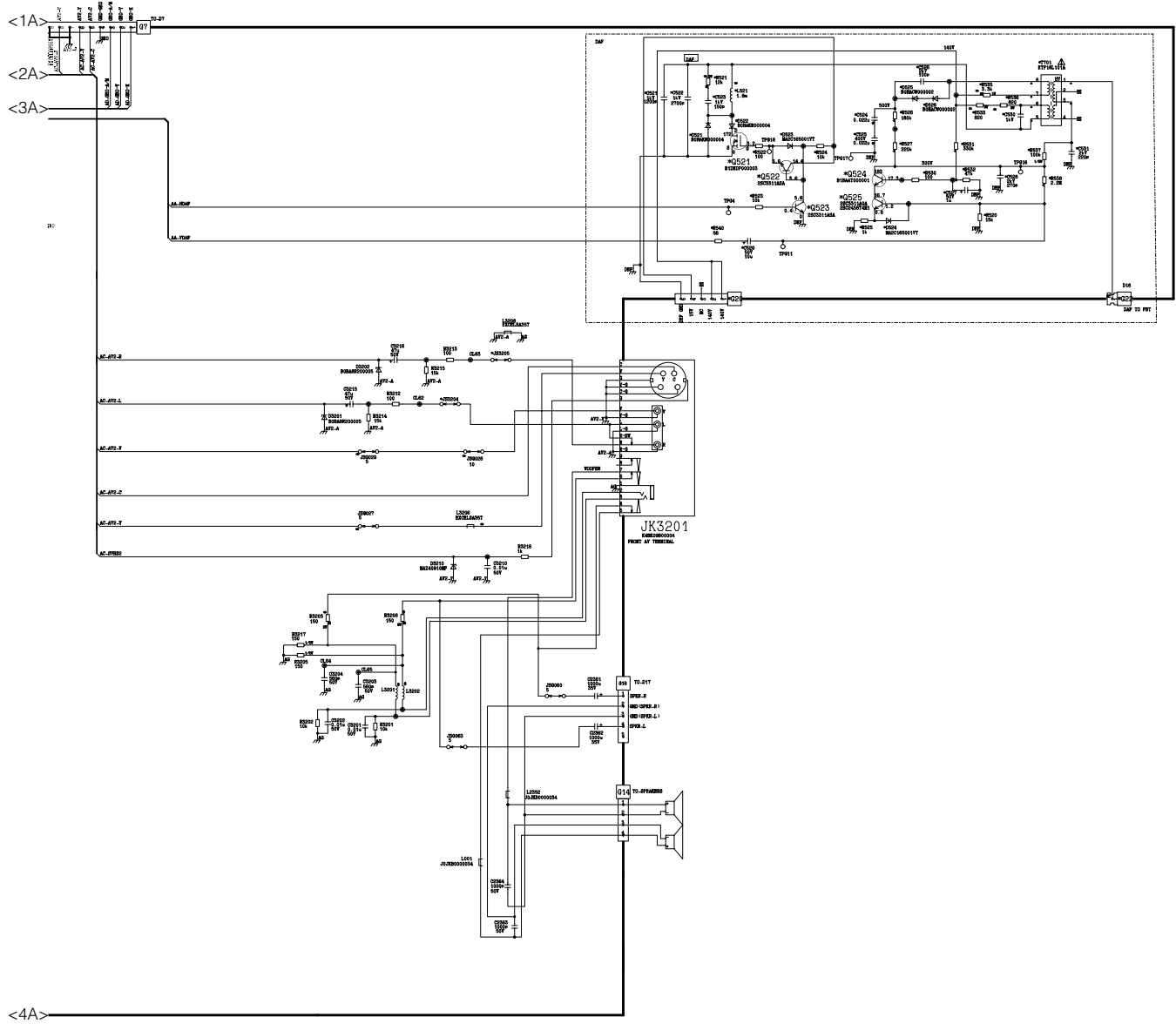


8.6. G BOARD

8.6.1. G BOARD 1 / 2



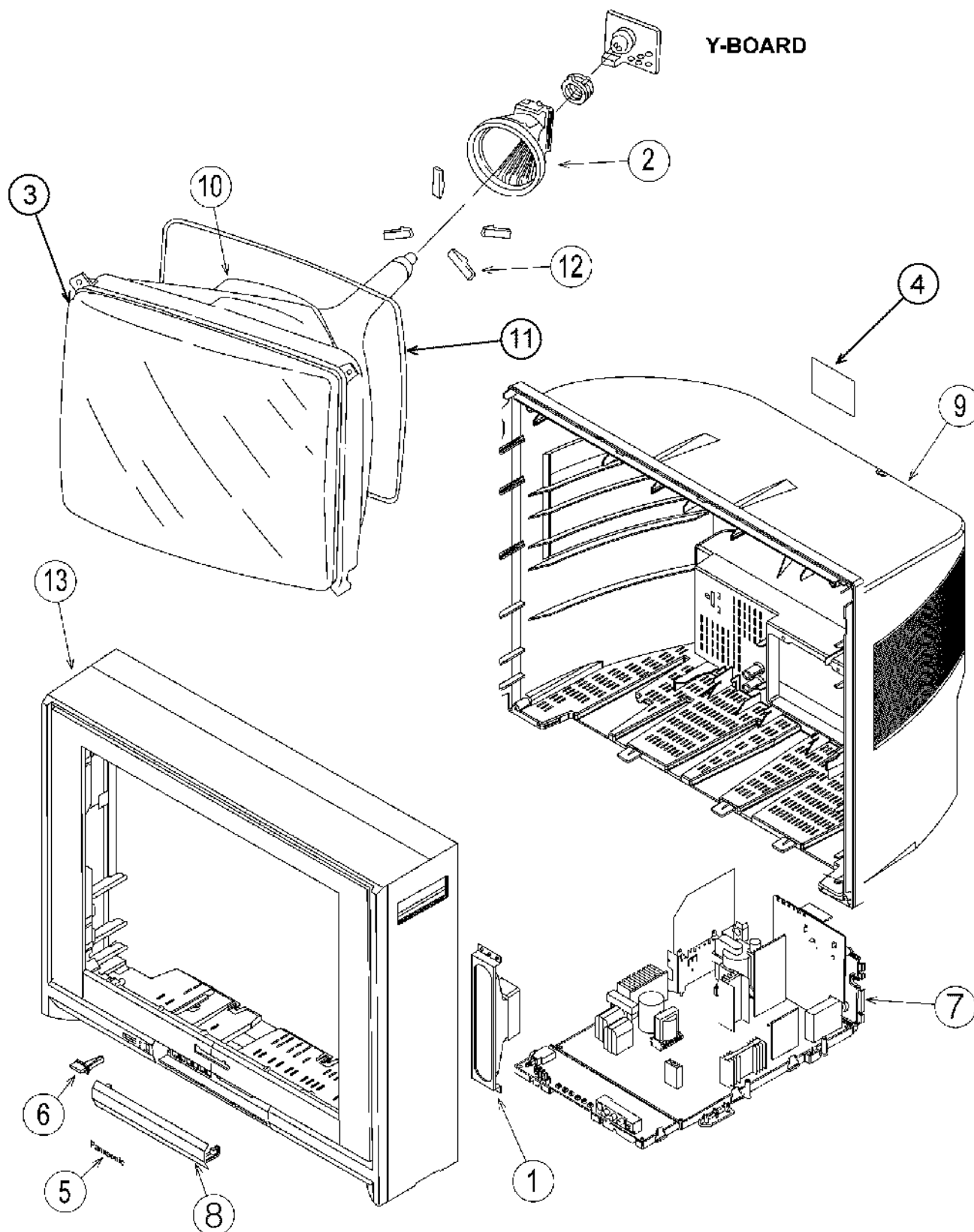
8.6.2. G BOARD 2 / 2



9 PARTS LOCATION

PARTS LOCATION

Note: The number on mechanical parts indicates Ref. No. of Replacement Parts List.



10 REPLACEMENT PARTS LIST

10.1. Replacement Parts List Notes

Important Safety Notice

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

Note: Printed circuit board assembly with "NLA" is no longer available after production discontinuation of the complete set.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100K Ω , J, 1/4W

Type Allowance

Type	Allowance
C: Carbon	F: $\pm 1\%$
F: Fuse	G: $\pm 2\%$
M: Metal Oxide Metal Film	J: $\pm 5\%$ K: $\pm 10\%$
S: Solid	M: $\pm 20\%$
W: Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C: Carbon	C: $\pm 0.25\text{pF}$
E: Electrolytic	D: $\pm 0.5\text{pF}$
P: Polyester Polypropylene	F: $\pm 1\text{pF}$ G: $\pm 3\%$
T: Tantalum	J: $\pm 5\%$ K: $\pm 10\%$ L: $\pm 15\%$ M: $\pm 20\%$ P: $+100\% -0\%$ Z: $+80\% -20\%$

10.2. Replacement Part List

Ref. No.	Part No.	Part Name & Description	Remarks
1	EASG15S02H2	SPEAKER	
2	KDY43HF20F	DEFLECTION YOKE	△
	KRCBC160928B	CORE CLAMPER	
3	M80LSW085X	PICTURE TUBE	△
	N2QAJB000107	REMOTE CONTROL	
	TBL4G3403	SET LEG	
	TBL4G3405	SET LEG	
4	TBM4G1133	MODEL NAME PLATE	
5	TBM4G3014	PANASONIC BADGE	
6	TBX4G89111	POWER BUTTON	
	TES4G406	COIL SPRING	
	THT4G1010R	SCREW (SPEAKER)	
	THT4G1011R	CRT SCREW	
	THT4G1013R	SCREW	
	TJB1726400	750HM ADAPTOR	
	TJS4G8150	AC PLUG ADAPTOR	△
7	TKP4G13071	REAR AV BRACKET	
8	TKP4G13251-1	DOOR	
9	TKU4GA1500-1	BACK COVER	
10	TLK4G9085X	DEGAUSSING COIL	△
11	TLK4G9086X	ROTATION COIL	△
12	TMM4G503	RUBBER WEDGE	
NLA	TNP4G118BM	GM BOARD	△
NLA	TNP4G295AD	L BOARD	△
NLA	TNP4G335AJ	A BOARD	△
NLA	TNP4G349AB	D BOARD	△
NLA	TNP4G350AA	G BOARD	△
	TPE4G14046	SET COVER	
	TQB4G3803	FAN BAG	
	TSM10032-4	PURITY MAGNET	
	TSN63115-4	PURITY MAGNET	
	TSX4G192L	AC POWER CORD	
13	TXFKY01C604	CABINET ASSY	
	TXFPC02CG04	CARTON	
	TXFPD01CS01	CUSHION (TOP)	
	TXFPD02CS01	CUSHION (BOTTOM)	
	CAPACITORS		
C1002	ECA1CM101B	E 100UF, 16V	
C1003	ECUX1H104KBX	C 0.1UF, K, 50V	
C1004	ECJ2VB1E105K	C 1UF, K, 25V	
C1007	ECJ2VC1H270J	C 27PF, J, 50V	
C102	ECA0JM471B	E 470UF, 6.3V	
C103	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C109	ECJ2VB1H102K	C 1000PF, K, 50V	
C110	ECJ2VB1H103K	C 0.01UF, K, 50V	
C1101	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1102	ECEA1AKA101	E 100UF, 10V	
C1103	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1104	ECEA1AKA101	E 100UF, 10V	
C1105	ECJ4YB0J476M	C 47UF, K, 6.3V	
C1106	ECJ4YB0J476M	C 47UF, K, 6.3V	
C1107	ECUX1H220JCX	C 22PF, J, 50V	
C1108	ECUX1H220JCX	C 22PF, J, 50V	
C1109	ECJ2VB1H103K	C 0.01UF, K, 50V	
C111	ECA1HMR33B	E 0.33UF, 50V	
C1111	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1112	ECUX1H151JCX	C 150PF, J, 50V	
C1114	ECJ1VF1H103Z	C 0.01UF, Z, 50V	
C1115	ECJ1VB1H472K	C 4700PF, K, 50V	
C1116	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1119	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1120	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1121	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1122	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1123	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1124	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1125	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1126	ECJ1VC1H101J	C 100PF, J, 50V	
C1127	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1130	ECEA1EKS4R7	E 4.7UF, 25V	
C1131	ECEA1EKS4R7	E 4.7UF, 25V	
C1132	ECEA1EKS4R7	E 4.7UF, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C117	ECJ2VB1H103K	C 0.01UF, K, 50V	
C118	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C119	ECA1CM221B	E 220UF, 16V	
C122	ECJ2FB1H104K	C 0.1UF, K, 50V	
C125	ECJ2VC1H331J	C 330PF, J, 50V	
C126	ECJ2VC1H561J	C 560PF, J, 50V	
C130	ECJ2VB1H103K	C 0.01UF, K, 50V	
C131	ECJ2VB1C104K	C 0.1UF, K, 16V	
C137	ECJ2VC1H560K	C 56PF, K, 50V	
C138	ECJ2VC1H560K	C 56PF, K, 50V	
C1501	ECJ2VC1H150J	C 15PF, J, 50V	
C1502	ECJ2VC1H150J	C 15PF, J, 50V	
C1503	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1504	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1505	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1506	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1507	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1508	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1509	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1510	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1511	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1512	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1514	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1515	ECEA1CKA100	E 10UF, 16V	
C1516	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1519	ECEA1CKA100	E 10UF, 16V	
C1520	ECJ2VB1H103K	C 0.01UF, K, 50V	
C1522	ECJ1VF1E104Z	C 0.1UF, Z, 50V	
C1524	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1525	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1526	ECJ2VC1H271J	C 270PF, J, 50V	
C1530	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1532	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1533	ECJ2VB1H103K	C 0.01UF, K, 50V	
C1535	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1537	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1543	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1544	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1545	ECEA1AKA221	E 220UF, 10V	
C1546	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1547	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1549	ECEA1CKA470	E 47UF, 16V	
C1550	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1552	ECQB1H104JF	P 0.1UF, 50V	
C1553	ECEA1HKA2R2	E 2.2UF, 50V	
C1554	ECEA1CKA101	E 100UF, 16V	
C1555	ECJ2VB1H103K	C 0.01UF, K, 50V	
C1557	ECA1HM010B	E 1UF, 50V	
C1558	ECEA1HKN010	E 1UF, 50V	
C1559	ECJ1VB1H473K	C 0.047UF, K, 50V	
C1560	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1562	ECA1HMR33B	E 0.33UF, 50V	
C1563	ECA1HM220B	E 22UF, 50V	
C1565	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1566	ECEA1CN470U	E 47UF, 16V	
C1567	ECA1CM101B	E 100UF, 16V	
C1568	ECA1AM221B	E 220UF, 10V	
C1569	ECA1AM221B	E 220UF, 10V	
C1573	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1574	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1575	ECJ1VF1H104Z	C 0.1UF, Z, 50V	
C1580	ECA1HM100B	E 10UF, 50V	
C1581	ECA1HM100B	E 10UF, 50V	
C1701	ECUX1H220JCX	C 22PF, J, 50V	
C1702	ECUX1H220JCX	C 22PF, J, 50V	
C1703	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1704	ECA1AM221B	E 220UF, 10V	
C1705	ECJ2VB1H222K	C 2200PF, K, 50V	
C1706	ECEA1CKA100	E 10UF, 16V	
C1707	ECJ1VC1H270J	C 27PF, J, 50V	
C1708	ECA1AM221B	E 220UF, 10V	
C1709	ECJ2VB1H103K	C 0.01UF, K, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1710	ECJ1VB1H153K	C 0.047UF, K, 50V	
C1711	ECJ1VB1H682K	C 6800PF, K, 50V	
C1713	ECEA1CKA100	E 10UF, 16V	
C1714	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1716	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1719	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1720	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1721	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1722	ECJ2VB1H103K	C 0.01UF, K, 50V	
C1723	ECEA1CKA101	E 100UF, 16V	
C1724	ECJ1VB1H222K	C 2200PF, K, 50V	
C1725	ECEA1CKA100	E 10UF, 16V	
C1726	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1727	ECEA1CKA470	E 47UF, 16V	
C1728	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1731	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1732	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1733	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1734	ECJ1VC1H101J	C 100PF, J, 50V	
C1735	ECJ1VC1H101J	C 100PF, J, 50V	
C1736	ECJ1VC1H101J	C 100PF, J, 50V	
C1737	ECJ1VB1C224K	C 0.22UF, K, 16V	
C1739	ECA1CM101B	E 100UF, 16V	
C1740	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1742	ECJ1VB1H472K	C 4700PF, K, 50V	
C1743	ECA1HM3R3B	E 3.3UF, 50V	
C1744	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1745	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C1746	ECJ1VF1E104Z	C 0.1UF, Z, 25V	
C1752	ECJ1VB1H471K	C 470PF, K, 50V	
C1754	ECJ1VC1H221J	C 220PF, J, 50V	
C1755	ECJ1VC1H221J	C 220PF, J, 50V	
C1756	ECJ1VC1H221J	C 220PF, J, 50V	
C1784	ECJ1VB1H103K	C 0.01UF, K, 50V	
C1785	ECKR3A151KBP	C 150PF, K, 1KV	
C2001	ECA1CM100B	E 10UF, 16V	
C2002	ECJ2VB1H152K	C 1500PF, K, 50V	
C2003	ECJ2VC1H471J	C 470PF, J, 50V	
C2004	ECJ2VC1H221J	C 220PF, J, 50V	
C2005	ECJ2FB1H104K	C 0.1UF, K, 50V	
C2009	ECJ2VB1H332K	C 3300PF, K, 50V	
C2010	ECJ2VB1H332K	C 3300PF, K, 50V	
C2011	ECJ2VB1H102K	C 1000PF, K, 50V	
C2012	ECA1HM4R7B	E 4.7UF, 50V	
C2013	ECA1HM4R7B	E 4.7UF, 50V	
C2014	ECJ2VC1H471J	C 470PF, J, 50V	
C2015	ECJ2VB1H152K	C 1500PF, K, 50V	
C2016	ECA1HM100B	E 10UF, 50V	
C2017	ECJ2VB1H102K	C 1000PF, K, 50V	
C2018	ECJ2VB1H102K	C 1000PF, K, 50V	
C2021	ECA1HM3R3B	E 3.3UF, 50V	
C2022	ECJ2FB1H104K	C 0.1UF, K, 50V	
C2023	ECJ2VC1H221J	C 220PF, J, 50V	
C2024	ECJ2VC1H221J	C 220PF, J, 50V	
C2025	ECA1CM100B	E 10UF, 16V	
C2026	ECJ2FB1H104K	C 0.1UF, K, 50V	
C2027	ECJ2VC1H221J	C 220PF, J, 50V	
C2028	ECA1CM100B	E 10UF, 16V	
C2029	ECJ2VB1H152K	C 1500PF, K, 50V	
C2030	ECJ2VC1H471J	C 470PF, J, 50V	
C2031	ECJ2VC1H070D	C 7PF, D, 50V	
C2032	ECJ2VC1H470J	C 47PF, J, 50V	
C2033	ECJ2VC1H470J	C 47PF, J, 50V	
C2034	ECJ2VC1H010C	C 1PF, C, 50V	
C2035	ECJ2VC1H010C	C 1PF, C, 50V	
C2041	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2042	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2043	ECJ2VB1H103K	C 0.01UF, K, 50V	
C2044	F2A1C331A159	E 330UF, 16V	
C2048	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2049	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2050	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2051	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2052	ECJ2VC1H221J	C 220PF, J, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2053	ECJ2VC1H221J	C 220PF, J, 50V	
C2054	ECJ2VC1H221J	C 220PF, J, 50V	
C2055	ECJ2VC1H221J	C 220PF, J, 50V	
C2056	ECA1CM470B	E 47UF, 16V	
C2057	ECA1CM470B	E 47UF, 16V	
C2060	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2061	ECJ2VF1C334Z	C 0.33UF, Z, 16V	
C2062	ECJ2VC1H221J	C 220PF, J, 50V	
C2063	ECJ2VC1H221J	C 220PF, J, 50V	
C2361	F2A1V1020042	E 1000UF, 35V	
C2362	F2A1V1020042	E 1000UF, 35V	
C2363	ECJ2VC1H102J	C 1000PF, J, 50V	
C2364	ECJ2VC1H102J	C 1000PF, J, 50V	
C251	ECA1HM010B	E 1UF, 50V	
C252	ECA1HM010B	E 1UF, 50V	
C253	ECA1HM4R7B	E 4.7UF, 50V	
C254	ECJ2VB1H102K	C 1000PF, K, 50V	
C255	ECA1HM4R7B	E 4.7UF, 50V	
C256	ECJ2VB1H102K	C 1000PF, K, 50V	
C259	ECQV1H684JM	P 0.68UF, J, 50V	
C260	ECQV1H684JM	P 0.68UF, J, 50V	
C261	ECA1HM100B	E 10UF, 50V	
C262	ECA1HM100B	E 10UF, 50V	
C263	ECA1HM101B	E 100UF, 50V	
C264	ECQV1H154JM	P 0.15UF, J, 50V	
C265	ECQV1H154JM	P 0.15UF, J, 50V	
C266	ECJ2FB1H104K	C 0.1UF, K, 50V	
C267	ECJ2FB1H104K	C 0.1UF, K, 50V	
C269	F2A1V332A206	E 3300UF, 35V	
C270	ECQB1H183JF	P 0.018UF, J, 50V	
C3001	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3002	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3003	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3004	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3010	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3011	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3012	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3013	ECA1CM101B	E 100UF, 16V	
C3020	ECEA1HKN010	E 1UF, 50V	
C3021	ECEA1HKN010	E 1UF, 50V	
C3030	ECA1CM100B	E 10UF, 16V	
C3031	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3053	ECJ2VF1C474Z	C 0.47UF, Z, 16V	
C3054	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3055	ERJ6GEY0R00	M 00HM, J, 1/10W	
C3056	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C3057	ECA1CM101B	E 100UF, 16V	
C3060	ERJ6GEY0R00	M 00HM, J, 1/10W	
C3070	ECA1CM100B	E 10UF, 16V	
C3071	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3080	ECJ2VF1C474Z	C 0.47UF, Z, 16V	
C3081	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3110	ECA1HM010B	E 1UF, 50V	
C3201	ECJ2VB1H103K	C 0.01UF, K, 50V	
C3202	ECJ2VB1H103K	C 0.01UF, K, 50V	
C3203	ECJ2VC1H561J	C 560PF, J, 50V	
C3204	ECJ2VC1H561J	C 560PF, J, 50V	
C3210	ECJ2VB1H103K	C 0.01UF, K, 50V	
C3215	ECA1HM470B	E 47UF, 50V	
C3216	ECA1HM470B	E 47UF, 50V	
C351	ECJ2VC1H180J	C 18PF, J, 50V	
C352	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C353	ECUX1H104KBX	C 0.1UF, K, 50V	
C354	ECQE2104KF	P 0.1UF, K, 250V	
C355	F1B2H102A022	C 1000PF, 500V	
C358	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C360	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C361	ECJ2VC1H180J	C 18PF, J, 50V	
C362	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C363	ECUX1H104KBX	C 0.1UF, K, 50V	
C364	ECQE2104KF	P 0.1UF, K, 250V	
C365	F1B2H102A022	C 1000PF, 500V	
C366	ECA1CM101B	E 100UF, 16V	
C368	ECA1CM471B	E 470UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C371	ECJ2VC1H180J	C 18PF, J, 50V	
C372	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C373	ECUX1H104KBX	C 0.1UF, K, 50V	
C374	ECQE2104KF	P 0.1UF, K, 250V	
C375	F1B2H102A022	C 1000PF, 500V	
C382	ECA1HM100B	E 10UF, 50V	
C383	F1B1H101A130	C 100PF, 50V	
C385	ECA2EM100B	E 10UF, 250V	
C386	ECKW3D152JBR	C 1500PF, J, 2KV	
C451	ECJ2VB1H102K	C 1000PF, K, 50V	
C453	ECJ2FB1H104K	C 0.1UF, K, 50V	
C454	ECJ2FB1H104K	C 0.1UF, K, 50V	
C456	ECA1HM221B	E 220UF, 50V	
C459	ECQB1224KF	P 0.22UF, K, 100V	
C463	ECA1HM221B	E 220UF, 50V	
C4801	ECA1HM4R7B	E 4.7UF, 50V	
C4802	ECA1CM101B	E 100UF, 16V	
C4803	ECQV1H334JM	P 0.33UF, J, 50V	
C4804	ECQV1H334JM	P 0.33UF, J, 50V	
C4805	ECA1VM470B	E 47UF, 35V	
C4806	ECA1HM4R7B	E 4.7UF, 50V	
C4808	ECA1HM330B	E 33UF, 50V	
C4811	ECJ2VB1H103K	C 0.01UF, K, 50V	
C4812	ECA1HM100B	E 10UF, 50V	
C4813	ECA1CM101B	E 100UF, 16V	
C4814	ECA1CM101B	E 100UF, 16V	
C4815	ECJ2VB1H103K	C 0.01UF, K, 50V	
C4822	ECU1C103JA5	P 0.01UF, J, 16V	
C4824	ECEA1CN100U	E 10UF, 16V	
C4825	EEUFC1C560B	E 56UF, 16V	
C507	ECUX1H331KBX	C 330PF, K, 50V	
C508	ECQB1H392JF	P 3900PF, J, 50V	
C509	ECA1VM470B	E 47UF, 35V	
C518	ECKW3D182KBP	C 1800PF, K, 2KV	
C521	ECKR3A122KBP	C 1200PF, K, 1KV	
C522	ECKW3A272KBP	C 2700PF, K, 1KV	
C523	ECKR3A151KBP	C 150PF, K, 1KV	
C524	ECQM6223JZ	P 0.022UF, J, 600V	
C525	ECQM4223JZ	P 0.022UF, J, 400V	
C526	ECKW3D101KBP	C 100PF, K, 2KV	
C527	ECA1HM010B	E 1UF, 50V	
C528	ECKW3D271KBP	C 270PF, K, 2KV	
C529	ECA1HM100B	E 10UF, 50V	
C530	ECKR3A102KBP	C 1000PF, K, 1KV	
C531	ECKW3D221JBP	C 220PF, J, 2KV	
C551	ECWH20152JVY	P 1500PF, J, 2KV	
C552	ECWH20102JVY	P 1000PF, J, 2KV	
C557	F1B2H471A025	C 470PF, 500V	
C558	ECA1HHG471	E 470UF, 50V	
C560	ECQE2393KF	P 0.039UF, 250V	
C561	ECA1EM222E	E 2200UF, 25V	
C562	F1B2H101A025	C 100PF, 500V	
C563	ECA2EM100B	E 10UF, 250V	
C564	ECEA2CN2R2S	E 2.2UF, 160V	
C565	F0A1H273A039	CAPACITOR	
C566	F1B2H471A025	C 470PF, 500V	
C567	ECA1EM222E	E 2200UF, 25V	
C568	F1B2H471A025	C 470PF, 500V	
C577	ECA1HM100B	E 10UF, 50V	
C581	ECWF4514JBB	P 0.51UF, J, 400V	
C582	ECWF4684JBB	P 0.68UF, J, 400V	
C583	ECWH20512JVB	P 5100PF, J, 2KV	
C584	ECWH20562JVB	P 560pF, j, 2Kv	
C585	ECQF4223JZH	P 0.022UF, 400V	
C586	ECQM4562JZ	P 5600PF, J, 400V	
C588	ECWF4514JBB	P 0.51UF, J, 400V	
C701	F1B2H152A023	C 1500PF, 500V	
C705	ECQE1475KF	P 4.7UF, 100V	
C706	F1B2H471A025	C 470PF, 500V	
C710	ECA1HM010B	E 1UF, 50V	
C801	ECQU2A224BN9	P 0.22UF, 250V	△
C803	ECQU2A224BN9	P 0.22UF, 250V	△
C805	ECKWAE472ZED	C 4700PF, Z, 500V	△
C806	ECKWAE472ZED	C 4700PF, Z, 500V	△

Ref. No.	Part No.	Part Name & Description	Remarks
C807	ECKWAE472ZED	C 4700PF, Z, 500V	△
C808	ECKWAE472ZED	C 4700PF, Z, 500V	△
C817	ECA1CM221B	E 220UF, 16V	
C818	F1B1H103A013	C 0.01UF, 50V	
C820	F2B2G5610003	E 560UF, 400V	
C821	ECA1HM010B	E 1UF, 50V	
C822	ECJ2VB1H103K	C 0.01UF, K, 50V	
C823	ECA1HM100B	E 10UF, 50V	
C824	ECJ2VB1H221K	C 220PF, K, 50V	
C825	ECJ2VB1H471K	C 470PF, K, 50V	
C826	ECKW3D681KBP	C 680PF, K, 2KV	
C827	ECQM4103RJZ	P 0.01UF, 400V	
C828	ECKW3D331JBR	C 330PF, J, 2KV	
C830	ECKCNA152ME7	C 1500PF, M,	
C835	F0A1H183A039	P 0.018UF, 50V	
C836	ECKCNA152ME7	C 1500PF, M,	
C839	ECJ2VF1C105Z	C 1UF, Z, 16V	
C844	ECKCNA471MB7	C 470PF, M,	
C860	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C861	ECA1HM101B	E 100UF, 50V	
C862	ECA1CM101B	E 100UF, 16V	
C866	ECKW3D471KBP	C 470PF, K, 2KV	
C867	F2B2C4710007	E 470UF, 160V	
C868	F2A2C1010016	E 100UF, 160V	
C870	F2A1C3320025	E 3300UF, 16V	
C871	F1B2H471A025	C 470UF, 500V	
C872	F2A1C472A260	E 4700UF, 16V	
C873	F1B2H471A025	C 470UF, 500V	
C874	F1B2H471A025	C 470UF, 500V	
C875	ECA1HHG102E	E 1000UF, 50V	
C876	ECQV1H104JL	P 0.1UF, J, 50V	
C878	ECA1CM100B	E 10UF, 16V	
C882	ECA1CM100B	E 10UF, 16V	
C883	F2A1E101A134	E 100UF, 25V	
C884	ECA1CM100B	E 10UF, 16V	
C886	ECA1CM100B	E 10UF, 16V	
C888	ECJ2FB1H104K	C 0.1UF, K, 50V	
C889	ECA1CM101B	E 100UF, 16V	
C891	ECA1CM101B	E 100UF, 16V	
C892	ECJ2FB1H104K	C 0.1UF, K, 50V	
C893	ECA1CM101B	E 100UF, 16V	
C896	ECJ2FB1H104K	C 0.1UF, K, 50V	
C901	ECA1CM101B	E 100UF, 16V	
C902	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C903	ERJ6GEY0R00	M 00HM, J, 1/10W	
C904	ECJ2VB1H472K	C 4700PF, K, 50V	
C905	ECA2CM220B	E 22UF, 160V	
C906	ECA2CM220B	E 22UF, 160V	
C907	ECA2CM220B	E 22UF, 160V	
C908	ECQM4472JZ	P 4700PF, J, 400V	
C909	F1B1H181A130	C 180PF, 50V	
	DIODES		
D1004	MTZJ8.2C	ZENER DIODE	
D1008	B3AGA0000089	DIODE	
D1009	B0BA5R100013	ZENER DIODE	
D103	MA4056H	DIODE	
D1102	B0ACCK000005	DIODE	
D1104	B0ACCK000005	DIODE	
D1105	B0ACCK000005	DIODE	
D1106	B0ACCK000005	DIODE	
D1107	MAZ80300LL	DIODE	
D1108	MAZ80390HL	DIODE	
D1160	MAZ80560ML	DIODE	
D1701	B0ADCJ000015	DIODE	
D1702	B0ADCJ000015	DIODE	
D1703	B0ACCK000005	DIODE	
D1705	B0AACK000004	DIODE	
D1706	MAZ80390HL	DIODE	
D1707	MAZ80390HL	DIODE	
D1708	MAZ80560HL	DIODE	
D1709	MAZ80620H	DIODE	
D2005	B0AACK000004	DIODE	
D2006	B0AACK000004	DIODE	
D2008	B0AACK000004	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D2009	B0AACK000004	DIODE	
D2010	MTZJ4.7B	ZENER DIODE	
D2011	MTZJ5.6B	ZENER DIODE	
D2021	B0BA8R700009	ZENER DIODE	
D2030	MTZJ5.6B	ZENER DIODE	
D251	MA2C700A0F	DIODE	
D252	MA2C700A0F	DIODE	
D3110	MAZ80330HL	DIODE	
D3111	MAZ80330HL	DIODE	
D3170	MA3091LTX	ZENER DIODE	
D3201	MTZJ8.2C	ZENER DIODE	
D3202	MTZJ8.2C	ZENER DIODE	
D3204	B0BC022A0007	DIODE	
D3210	MAZ40910MF	DIODE	
D351	B0ACCK000005	DIODE	
D354	B0ACCK000005	DIODE	
D355	MA723	DIODE	
D361	B0ACCK000005	DIODE	
D371	B0ACCK000005	DIODE	
D454	B0JAME000058	DIODE	
D456	MTZJ5.6B	ZENER DIODE	
D457	B0AACK000004	DIODE	
D458	B0JAME000058	DIODE	
D4801	MA3056MTX	DIODE	
D501	B0AACK000004	DIODE	
D502	EU02	DIODE	
D521	AU02A	DIODE	
D522	AU02A	DIODE	
D523	MA165	DIODE	
D524	MA165	DIODE	
D525	RP1HLFA5	DIODE	
D526	RP1HLFA5	DIODE	
D553	EU02	DIODE	
D554	EU02	DIODE	
D557	B0HAKM000011	DIODE	
D558	B0HAKM000011	DIODE	
D559	B0AACK000004	DIODE	
D560	RH3GLF102	DIODE	
D563	EU02	DIODE	
D565	EU02	DIODE	
D566	EU02	DIODE	
D577	MA171	DIODE	
D578	MA4104J	DIODE	
D579	MA165	DIODE	
D580	FMV-3GULF730	DIODE	
D706	EU02	DIODE	
D707	EU02	DIODE	
D708	MA165	DIODE	
D710	B0BA01600007	ZENER DIODE	
D712	B0AACK000004	DIODE	
D801	ERZV10D621CS	VARISTOR	△
D802A	D6SB80LF-B	DIODE	
D809	AU02A	DIODE	
D811	B2AAFR000002	THYRISTOR	△
D820	MTZJ6.8B	ZENER DIODE	
D821	AG01Z	DIODE	
D822	B0EAKT000018	DIODE	
D823	AG01Z	DIODE	
D824	AG01Z	DIODE	
D825	AG01Z	DIODE	
D826	B0BC022A0007	DIODE	
D829	MAZ20820A0LS	DIODE	
D831	MAZ42400MF	DIODE	
D832	AG01Z	DIODE	
D851	B0AACK000004	DIODE	
D854	MTZJ7.5C	ZENER DIODE	
D855	MA165	DIODE	
D866	FMGG2CSLF665	DIODE	
D868	B0BA5R100013	ZENER DIODE	
D869	MA4030L	DIODE	
D872	B0JAPK000011	DIODE	
D873	B0HARR000008	DIODE	
D877	B0AACK000004	DIODE	
D878	B0AACK000004	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D880	B0AACK000004	DIODE	
D881	MTZJ18B	ZENER DIODE	
D882	MTZJ16A	ZENER DIODE	
D883	B0JAPG000029	DIODE	
D889	AG01Z	DIODE	
D890	B0AACK000004	DIODE	
D891	B0AACK000004	DIODE	
D895	MTZJ5.1B	ZENER DIODE	
D896	B0AACK000004	DIODE	
D901	SR2KNLFA1	DIODE	
D902	B0BA6R800007	ZENER DIODE	
	INTEDGRATED CIRCUITS		
IC1101	SDA5550M	IC	
IC1103	TVR4G8-13	FLASH MEMORY IC	
IC1104	TVR4GAS320	EEPROM IC	
IC1105	C0EBJ0000288	IC	
IC1106	C0EBE0000388	IC	
IC1108	C0ZBZ0000893	IC	
IC1109	C0JAAZ002376	IC, LOGIC	
IC1501	C1AB00002065	IC	
IC1502	C0CBAA000020	IC, POWER SUPPLY	△
IC1505	C1AB00002021	IC	
IC1701	C1AB00001986	IC	
IC2001	C1AB00001987	IC	
IC251	C1BA00000269	IC	
IC3001	C1AB00001971	IC	
IC351	C1AA00000325	IC	
IC361	C1AA00000325	IC	
IC371	C1AA00000325	IC	
IC451	LA7876N	LINEAR IC	
IC4801	PUB4301	TRANSISTOR ARRAY	
IC4802	AN6564NS	LINEAR IC	
IC4805	TC4066BFN	IC	
IC4861	AN6562	LINEAR IC	
IC801	C0EAS0000026	IC	△
IC820	C5HABZZ00138	IC, POWER SUPPLY	△
IC852	AN78L05	LINEAR IC	
IC853	C0CBABF00021	IC, POWER SUPPLY	△
IC856	C0CACHF00001	IC, POWER SUPPLY	△
IC880	C0CACHF00002	IC, POWER SUPPLY	△
IC885	B3PAA0000306	PHOTO COUPLER	△
	COILS		
L001	J0JKB0000034	EMI FILTER	
L103	EXCELSA35T	BEAD CORE	
L104	J0JKB0000034	EMI FILTER	
L1061	G0C331KA0007	PEAKING COIL	
L107	TLTACT100K	PEAKING COIL 10U	
L1101	TALV35VB5R6K	PEAKING COIL	
L1103	TLTACT4R7J	PEAKING COIL	
L1104	TLTACT4R7J	PEAKING COIL	
L116	TALV35VB6R8K	PEAKING COIL	
L1501	TLTACT4R7J	PEAKING COIL	
L1502	TLTACT4R7J	PEAKING COIL	
L1503	G0C100K00008	COIL	
L1701	EXC3BB221H	CHIP BEAD CORE	
L2001	TLTACT4R7J	PEAKING COIL	
L2004	G0C101KA00030	PEAKING COIL	
L2005	TLTACT4R7J	PEAKING COIL	
L2006	ELJFC4R7KF	CHIP INDUCTOR	
L2007	ELJFC4R7KF	CHIP INDUCTOR	
L2008	EXCELSA35T	BEAD CORE	
L2352	J0JKB0000034	EMI FILTER	
L3010	G0C100K00008	COIL	
L3070	G0C100K00008	COIL	
L3110	G0C100K00008	COIL	
L3145	G0C100K00008	COIL	
L3201	TALV35VB6R8K	PEAKING COIL	
L3202	TALV35VB6R8K	PEAKING COIL	
L3206	EXCELSA35T	BEAD CORE	
L3208	EXCELSA35T	BEAD CORE	
L3250	G0BYYYG00005	BEAD CORE	
L382	J0JKB0000034	EMI FILTER	
L4802	J0JKB0000034	EMI FILTER	

Ref. No.	Part No.	Part Name & Description	Remarks
L4803	TLTACT100J	PEAKING COIL	
L4804	TALL08T102JA	INDUCTION COIL	
L501	EXCELSA35B	BEAD CORE	
L521	TALL13N182JB	INDUCTION COIL	
L522	J0JKB0000034	EMI FILTER	
L546	G0A4R7H00002	CHOKE COIL	
L558	EXCELSA35T	BEAD CORE	
L559	EXCML20A390U	EMI FILTER	
L581	ELH5L6145	LINEARITY COIL	
L582	ELC18E221L	CHOKE COIL	
L584	ELH5L7131	LINEARITY COIL	
L701	ELC18B181G	CHOKE COIL	
L704	ELC18B182F	CHOKE COIL	
L810	J0JKB0000034	EMI FILTER	
L838	EXC3BB102H	CHIP BEAD CORE	
L865	EXCELSA35B	BEAD CORE	
L866	EXCELSA35B	BEAD CORE	
L867	TALL08T680KA	INDUCTION COIL	
L871	EXCELSA35T	BEAD CORE	
L872	EXCELSA35T	BEAD CORE	
L874	EXCELSA35T	BEAD CORE	
L901	ERC14GK220	SOLID RESISTOR	△
	TRANSISTERS		
Q1002	2SD0601A0L	TRANSISTOR	
Q1008	2SD0601A0L	TRANSISTOR	
Q101	2SD0601A0L	TRANSISTOR	
Q109	2SD0601A0L	TRANSISTOR	
Q1103	2SD0601A0L	TRANSISTOR	
Q1109	B1CFHG000008	TRANSISTOR	
Q1110	B1CFHG000008	TRANSISTOR	
Q1112	2SD0601A0L	TRANSISTOR	
Q1116	B1ADDF000005	TRANSISTOR	
Q1117	2SD0601A0L	TRANSISTOR	
Q120	2SD0601A0L	TRANSISTOR	
Q1225	2SD0601A0L	TRANSISTOR	
Q1501	2SD0601A0L	TRANSISTOR	
Q1508	B1ADDF000005	TRANSISTOR	
Q1570	2SD0601A0L	TRANSISTOR	
Q1701	2SD0601A0L	TRANSISTOR	
Q1702	2SD0601A0L	TRANSISTOR	
Q1703	2SD0601A0L	TRANSISTOR	
Q1704	2SD0601A0L	TRANSISTOR	
Q1705	2SD0601A0L	TRANSISTOR	
Q1706	B1HFCFA000006	TRANSISTOR	
Q1707	B1HFCFA000006	TRANSISTOR	
Q1708	B1HFCFA000006	TRANSISTOR	
Q1710	2SD0601A0L	TRANSISTOR	
Q1711	2SD0601A0L	TRANSISTOR	
Q1712	2SD0601A0L	TRANSISTOR	
Q1713	2SD0601A0L	TRANSISTOR	
Q1715	2SD0601A0L	TRANSISTOR	
Q1719	2SD0601A0L	TRANSISTOR	
Q2006	B1ADDF000005	TRANSISTOR	
Q251	2SD0601A0L	TRANSISTOR	
Q252	2SD0601A0L	TRANSISTOR	
Q3030	2SD0601A0L	TRANSISTOR	
Q3031	2SD0601A0L	TRANSISTOR	
Q3032	2SD0601A0L	TRANSISTOR	
Q3110	2SD0601A0L	TRANSISTOR	
Q3111	2SD0601A0L	TRANSISTOR	
Q3140	2SD0601A0L	TRANSISTOR	
Q3141	2SD0601A0L	TRANSISTOR	
Q3142	2SD0601A0L	TRANSISTOR	
Q3270	2SD0601A0L	TRANSISTOR	
Q351	B1ADDF000005	TRANSISTOR	
Q352	B1ADDF000005	TRANSISTOR	
Q4802	B1ABCF000078	TRANSISTOR	
Q4815	2SD0601A0L	TRANSISTOR	
Q503	B1BBDJ000004	TRANSISTOR	
Q521	2SK1006RF122	TRANSISTOR	
Q522	2SC3311AS	TRANSISTOR	
Q523	2SC3311AS	TRANSISTOR	
Q524	2SC5460	TRANSISTOR	
Q525	2SC3311A	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q551	2SC5686000RK	TRANSISTOR	
Q556	2SD0601A0L	TRANSISTOR	
Q703	B1DFDG000015	TRANSISTOR	
Q706	2SD0601A0L	TRANSISTOR	
Q707	2SA1018Q	TRANSISTOR	
Q850	2SD0601A0L	TRANSISTOR	
Q852	2SD0601A0L	TRANSISTOR	
Q865	B1BCCM000002	TRANSISTOR	
Q866	2SC54190RA	TRANSISTOR	
Q870	2SD0601A0L	TRANSISTOR	
Q871	B1ADDF000005	TRANSISTOR	
Q873	2SD0601A0L	TRANSISTOR	
Q874	B1BACG000035	TRANSISTOR	
Q898	2SD0601A0L	TRANSISTOR	
Q901	B1ADDF000005	TRANSISTOR	
Q902	2SD0601A0L	TRANSISTOR	
Q903	2SA1535ARLB	TRANSISTOR	
Q904	2SC3944ARLB	TRANSISTOR	
	RESISTORS		
R004	ERJ6ENF2152	M21.5KOHM, 1/10W	
R1007	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1008	ERJ6GEYJ151	M 1500HM, J, 1/10W	
R1009	ERJ6GEYJ331	M 3300HM, J, 1/10W	
R101	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1010	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R1011	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R1017	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1018	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R102	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R103	ERJ6GEYJ221	M 2200HM, J, 1/10W	
R1043	ERJ6ENF2211	F 2.21KOHM, 1/10W	
R1044	ERJ6ENF3241	M3.24KOHM, 1/10W	
R1045	ERJ6ENF5111	F 5.11KOHM, 1/10W	
R1046	ERJ6ENF9091	M9.09KOHM, 1/10W	
R110	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1100	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1101	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1102	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1103	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1104	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1105	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1106	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1107	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	
R1108	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1109	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1111	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1112	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1114	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1116	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1118	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R112	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1120	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1122	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1123	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R1124	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
R1125	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1126	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1127	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1128	ERJ3GEYJ683	M 68KOHM, J, 1/16W	
R1129	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	
R113	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R1130	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R1132	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1133	ERJ3EKF1002	M 10KOHM, F, 1/16W	
R1134	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R1135	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1136	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1137	ERJ3GEYJ822	M 8.2KOHM, J, 1/16W	
R1138	ERJ3GEYJ153	M 15KOHM, J, 1/16W	
R1139	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R114	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R1140	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1141	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1142	ERJ3GEYJ101	M 1000HM, J, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1143	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1144	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R1145	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1147	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R115	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1150	ERJ6GEYJ391	M 3900HM, J, 1/10W	
R1151	ERJ3GEYJ683	M 68KOHM, J, 1/16W	
R1152	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
R1153	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R1154	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R1155	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1156	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1157	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1158	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1159	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R116	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1160	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R1161	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1162	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1163	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1164	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1165	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1166	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1167	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1168	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1169	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1170	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1171	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1172	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1173	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1174	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1175	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1176	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1177	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1178	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1179	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R118	ERX1SJR22P	M 0.220HM, J, 1W	
R1180	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1184	ERJ3GEYJ680	M 680HM, J, 1/16W	
R1185	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1186	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1187	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1188	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1189	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1190	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1191	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R1192	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1193	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R1194	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R1198	ERJ3GEYJ680	M 680HM, J, 1/16W	
R1199	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R120	ERJ6GEYJ561	M 5600HM, J, 1/10W	
R1200	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1204	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1206	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1207	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1209	EXB38V680J	M 680HM, J, 1/16W	
R121	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R1210	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1211	D1HG6808A002	FIXED RESISTOR	
R1212	D1HG6808A002	FIXED RESISTOR	
R1213	ERJ6GEYJ680	M 680HM, J, 1/10W	
R1214	EXB38V680J	M 680HM, J, 1/16W	
R1215	ERJ3GEYJ680	M 680HM, J, 1/16W	
R1216	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1217	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1218	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1219	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R122	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1220	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
R1221	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
R1222	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1223	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1224	ERJ3GEYJ103	M 10KOHM, J, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1225	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1226	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R1227	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1228	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
R1229	ERJ6GEY0R00	M 00HM, J, 1/10W	
R123	ERJ6GEYJ271	M 2700HM, J, 1/10W	
R1230	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1231	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1234	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1237	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R124	ERJ6GEYJ271	M 2700HM, J, 1/10W	
R1240	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R125	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1251	ERJ6ENF2321	F 2.32KOHM, 1/10W	
R1280	ERJ6GEY0R00	M 00HM, J, 1/10W	
R129	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R133	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R134	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R135	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R136	ERJ6GEY0R00	M 00HM, J, 1/10W	
R141	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1501	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1503	ERJ3GEYJ152	M 1.5KOHM, J, 1/16W	
R1513	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1514	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1515	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1516	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1519	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1522	ERJ6ENF75R0	M 750HM, 1/10W	
R1523	ERJ6ENF75R0	M 750HM, 1/10W	
R1528	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1540	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1548	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1549	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1552	ERJ3GEYJ221	M 2200HM, J, 1/16W	
R1554	ERJ6ENF68R0	F 680HM, 1/10W	
R1555	ERJ6ENF75R0	M 750HM, 1/10W	
R1556	ERJ6ENF68R0	F 680HM, 1/10W	
R1562	ERJ3GEYJ221	M 2200HM, J, 1/16W	
R1570	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R1571	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R1572	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R1573	ERJ6GEYJ181	M 1800HM, J, 1/10W	
R1574	ERJ6ENF75R0	M 750HM, 1/10W	
R1575	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1594	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1595	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
R1596	ERJ6GEYJ361	M 3600HM, J, 1/10W	
R1597	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	
R1598	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1599	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1600	ERJ6GEYJ202	M 2KOHM, J, 1/10W	
R1601	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1602	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1603	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1604	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1605	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1606	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1607	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1608	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1609	ERJ3GEYJ101	M 1000HM, J, 1/16W	
R1610	ERJ6ENF75R0	M 750HM, 1/10W	
R1701	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1704	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1705	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	
R1706	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	
R1707	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1708	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R1709	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1710	ERJ6GEYJ563	M 56KOHM, J, 1/10W	
R1712	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1714	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1716	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1717	ERJ3GEYJ271	M 2700HM, J, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1719	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R1720	ERJ3GEYJ822	M 8.2KOHM, J, 1/16W	
R1721	ERJ3GEYJ682	M 6.8KOHM, J, 1/16W	
R1723	ERJ6GEYJ561	M 560OHM, J, 1/10W	
R1724	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1725	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1726	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1727	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R1728	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R1730	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1732	ERJ3GEYJ331	M 330OHM, J, 1/16W	
R1733	ERJ3GEYJ331	M 330OHM, J, 1/16W	
R1734	ERJ3GEYJ331	M 330OHM, J, 1/16W	
R1736	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1737	ERJ3GEYJ620	F 620KOHM, J, 1/10W	
R1738	ERJ6GEYJ271	M 270OHM, J, 1/10W	
R1739	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1740	ERJ3GEYJ620	F 620KOHM, J, 1/10W	
R1741	ERJ6GEYJ271	M 270OHM, J, 1/10W	
R1742	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1743	ERJ3GEYJ620	F 620KOHM, J, 1/10W	
R1744	ERJ6GEYJ271	M 270OHM, J, 1/10W	
R1745	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1746	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R1750	ERJ3GEYJ152	M 1.5KOHM, J, 1/16W	
R1751	ERJ3GEYJ244	F 240KOHM, J, 1/10W	
R1752	ERJ3GEYJ560	M 560HM, J, 1/16W	
R1755	ERJ3GEYJ471	M 470OHM, J, 1/16W	
R1756	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1757	ERJ6GEYJ821	M 820OHM, J, 1/10W	
R1758	ERJ3GEYJ123	M 12KOHM, J, 1/16W	
R1759	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R1760	ERJ3GEY0R00	M 00HM, J, 1/16W	
R1762	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R1763	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1764	ERJ3GEYJ103	M 10KOHM, J, 1/16W	
R1775	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R1776	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R1777	ERJ3GEYJ473	M 47KOHM, J, 1/16W	
R1780	ERJ3GEYJ331	M 330OHM, J, 1/16W	
R1781	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R1782	ERJ3GEYJ102	M 1KOHM, J, 1/16W	
R1783	ERJ3GEYJ271	M 270OHM, J, 1/16W	
R1784	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	
R1793	ERJ3GEYJ153	M 15KOHM, J, 1/16W	
R2007	ERJ6GEY0R00	M 00HM, J, 1/10W	
R2008	ERJ6GEY0R00	M 00HM, J, 1/10W	
R2011	ERJ6GEYJ183	M 18KOHM, J, 1/10W	
R2012	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R2013	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R2015	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R2016	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R2018	ERDS2TJ101	C 100OHM, J, 1/4W	
R2019	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R2020	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R2021	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	
R2024	ERJ6GEY0R00	M 00HM, J, 1/10W	
R2029	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R2032	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R2037	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R2038	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	
R2039	ERJ6GEYJ221	M 220OHM, J, 1/10W	
R2040	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R2041	ERJ6GEY0R00	M 00HM, J, 1/10W	
R2042	ERJ6GEY0R00	M 00HM, J, 1/10W	
R2043	ERJ6GEY0R00	M 00HM, J, 1/10W	
R250	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R251	ERJ6GEYJ471	M 470OHM, J, 1/10W	
R252	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R253	ERJ6GEYJ471	M 470OHM, J, 1/10W	
R254	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R255	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
R256	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
R257	ERJ6GEYJ150	M 150HM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R258	ERJ6GEYJ150	M 150HM, J, 1/10W	
R259	ERJ6GEYJ121	M 120OHM, J, 1/10W	
R260	ERJ6GEYJ121	M 120OHM, J, 1/10W	
R261	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	
R262	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	
R263	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R264	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R3001	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3003	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3004	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R3005	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3006	ERJ6ENF75R0	M 750HM, 1/10W	
R3007	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R3008	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R3010	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R3011	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3012	ERJ6ENF75R0	M 750HM, 1/10W	
R3015	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3016	ERJ6ENF75R0	M 750HM, 1/10W	
R3017	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R3018	ERJ3GEYJ104	M 100KOHM, J, 1/16W	
R3020	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3022	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3023	ERJ6ENF75R0	M 750HM, 1/10W	
R3024	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3025	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3027	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3030	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R3031	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R3032	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R3033	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R3034	ERJ6ENF75R0	M 750HM, 1/10W	
R3035	ERJ6ENF75R0	M 750HM, 1/10W	
R3044	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3045	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3046	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3058	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R3059	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R3062	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3063	ERJ6GEYJ750	M 750HM, 1/10W	
R3067	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3070	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3071	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3075	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3076	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3077	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3078	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3081	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3082	ERJ6ENF75R0	M 750HM, 1/10W	
R3093	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3094	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3095	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3096	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3097	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3098	ERJ3GEY0R00	M 00HM, J, 1/16W	
R3113	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3114	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3115	ERJ6GEYJ333	M 33KOHM, J, 1/10W	
R3116	ERJ6GEYJ333	M 33KOHM, J, 1/10W	
R3117	ERJ6GEYJ681	M 680OHM, J, 1/10W	
R3118	ERJ6GEYJ681	M 680OHM, J, 1/10W	
R3119	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R3120	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R3121	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3124	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3126	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3132	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3135	ERJ3GEY0R00	M 00HM, J, 1/16W	
R3136	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3139	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3140	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3141	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3142	ERJ3GEYJ101	M 100OHM, J, 1/16W	
R3143	ERJ3GEYJ101	M 100OHM, J, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3144	ERJ66EYJ104	M 100KOHM, J, 1/10W	
R3145	ERJ66EYJ104	M 100KOHM, J, 1/10W	
R3146	ERJ36EYJ103	M 10KOHM, J, 1/16W	
R3147	ERJ36EYJ103	M 10KOHM, J, 1/16W	
R3148	ERJ36EYJ223	M 22KOHM, J, 1/16W	
R3149	ERJ36EYJ103	M 10KOHM, J, 1/16W	
R3150	ERJ36EY0R00	M 00HM, J, 1/16W	
R3151	ERJ36EY0R00	M 00HM, J, 1/16W	
R3152	ERJ36EY0R00	M 00HM, J, 1/16W	
R3153	ERJ66EY0R00	M 00HM, J, 1/10W	
R3154	ERJ66EY0R00	M 00HM, J, 1/10W	
R3157	ERJ6ENF75R0	M 750HM, 1/10W	
R3158	ERJ6ENF75R0	M 750HM, 1/10W	
R3159	ERJ6ENF75R0	M 750HM, 1/10W	
R3160	ERJ66EY0R00	M 00HM, J, 1/10W	
R3161	ERJ66EY0R00	M 00HM, J, 1/10W	
R3162	ERJ66EY0R00	M 00HM, J, 1/10W	
R3165	ERJ36EY0R00	M 00HM, J, 1/16W	
R3166	ERJ36EY0R00	M 00HM, J, 1/16W	
R3167	ERJ6ENF75R0	M 750HM, 1/10W	
R3168	ERJ66EYJ750	M 750HM, 1/10W	
R3169	ERJ66EYJ750	M 750HM, 1/10W	
R3170	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R3171	ERJ66EY0R00	M 00HM, J, 1/10W	
R3175	ERJ66EY0R00	M 00HM, J, 1/10W	
R3176	ERJ66EY0R00	M 00HM, J, 1/10W	
R3180	ERJ36EYJ102	M 1KOHM, J, 1/16W	
R3181	ERJ36EYJ102	M 1KOHM, J, 1/16W	
R3182	ERJ36EYJ184	M 180KOHM, J, 1/16W	
R3183	ERJ36EYJ184	M 180KOHM, J, 1/16W	
R3184	ERJ36EYJ101	M 100OHM, J, 1/16W	
R3185	ERJ36EYJ101	M 100OHM, J, 1/16W	
R3186	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R3187	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R3188	ERJ66EYJ184	M 180KOHM, J, 1/10W	
R3189	ERJ66EYJ184	M 180KOHM, J, 1/10W	
R3190	ERJ66EYJ101	M 100OHM, J, 1/10W	
R3191	ERJ66EYJ101	M 100OHM, J, 1/10W	
R3192	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R3193	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R3194	ERJ66EYJ184	M 180KOHM, J, 1/10W	
R3195	ERJ66EYJ184	M 180KOHM, J, 1/10W	
R3196	ERJ66EYJ101	M 100OHM, J, 1/10W	
R3197	ERJ66EYJ101	M 100OHM, J, 1/10W	
R3198	ERJ6ENF75R0	M 750HM, 1/10W	
R3201	ERJ66EYJ103	M 10KOHM, J, 1/10W	
R3202	ERJ66EYJ103	M 10KOHM, J, 1/10W	
R3203	ERG2FJ151H	M 150OHM, J, 2W	
R3205	ERDS1TJ151	C 150OHM, J, 1/2W	
R3208	ERG2FJ151H	M 150OHM, J, 2W	
R3212	ERJ66EYJ101	M 100OHM, J, 1/10W	
R3213	ERJ66EYJ101	M 100OHM, J, 1/10W	
R3214	ERJ66EYJ153	M 15KOHM, J, 1/10W	
R3215	ERJ66EYJ153	M 15KOHM, J, 1/10W	
R3216	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R3217	ERDS1TJ151	C 150OHM, J, 1/2W	
R3255	ERJ36EY0R00	M 00HM, J, 1/16W	
R3256	ERJ36EY0R00	M 00HM, J, 1/16W	
R3258	ERJ66EY0R00	M 00HM, J, 1/10W	
R3259	ERJ66EY0R00	M 00HM, J, 1/10W	
R3260	ERJ66EY0R00	M 00HM, J, 1/10W	
R3261	ERJ66EY0R00	M 00HM, J, 1/10W	
R3262	ERJ66EY0R00	M 00HM, J, 1/10W	
R3263	ERJ66EY0R00	M 00HM, J, 1/10W	
R3270	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R3271	ERJ66EYJ750	M 750HM, 1/10W	
R3272	ERJ66EYJ241	M 240OHM, J, 1/10W	
R350	ERQ12AJ151P	F 150OHM, J, 1/2W	
R352	ERJ66EYJ132	M 1.3KOHM, J, 1/10W	
R353	ERJ66EYJ821	M 820OHM, J, 1/10W	
R354	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R355	ERG1SJ683P	M 68KOHM, J, 1W	
R356	ERJ66EY0R00	M 00HM, J, 1/10W	
R357	ERJ66EYJ221	M 220OHM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R358	ERDS1TJ821	C 820OHM, J, 1/2W	
R359	ERJ66EYJ391	M 390OHM, J, 1/10W	
R360	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R362	ERJ66EYJ132	M 1.3KOHM, J, 1/10W	
R363	ERJ66EYJ821	M 820OHM, J, 1/10W	
R364	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R365	ERG1SJ683P	M 68KOHM, J, 1W	
R366	ERJ66EY0R00	M 00HM, J, 1/10W	
R367	ERJ66EY0R00	M 00HM, J, 1/10W	
R368	ERDS1TJ821	C 820OHM, J, 1/2W	
R369	ERJ66EY0R00	M 00HM, J, 1/10W	
R370	ERQ1CJP1R5S	F 1.5OHM, J, 1W	
R371	ERJ66EY0R00	M 00HM, J, 1/10W	
R372	ERJ66EYJ132	M 1.3KOHM, J, 1/10W	
R373	ERJ66EYJ821	M 820OHM, J, 1/10W	
R375	ERG1SJ683P	M 68KOHM, J, 1W	
R376	ERJ66EY0R00	M 00HM, J, 1/10W	
R378	ERDS1TJ821	C 820OHM, J, 1/2W	
R380	ERJ66EYJ392	M 3.9KOHM, J, 1/10W	
R381	ERJ6ENF1401	M 1.4KOHM, 1/10W	
R451	ERJ66EYJ223	M 22KOHM, J, 1/10W	
R454	ERJ66EYJ273	M 27KOHM, J, 1/10W	
R455	ERDS2TJ223	C 22KOHM, J, 1/4W	
R458	ERDS1TJ1R0	C 10HM, J, 1/2W	
R460	ERG3FJ151H	M 150OHM, J, 3W	
R461	ERX2SJSR82H	METAL FILM RESISTOR	
R463	ERJ66EYJ821	M 820OHM, J, 1/10W	
R464	ERJ66EYJ512	M 5.1KOHM, J, 1/10W	
R465	ERJ66EYJ751	M 750OHM, J, 1/10W	
R467	ERJ66EY0R00	M 00HM, J, 1/10W	
R4803	ERX12S2R7E	M 2.7OHM, J, 1/2W	
R4804	ERJ66EYJ272	M 2.7KOHM, J, 1/10W	
R4805	ERJ6ENF1331	M1.33KOHM, 1/10W	
R4806	ERJ6ENF3320	M 332OHM, 1/10W	
R4807	ERJ6ENF1001	M 1KOHM, 1/10W	
R4808	ERJ6ENF3832	M38.3KOHM, 1/10W	
R4809	ERJ6ENF8061	FIXED RESISTOR	
R4810	ERJ6ENF2213	M 221KOHM, 1/10W	
R4811	ERJ6ENF6201	M 6.2KOHM, 1/10W	
R4812	ER0S2CKF5621	M5.62KOHM, F, 1/4W	
R4816	ERDS1FJ470	C 47OHM, J, 1/2W	
R4817	ERJ66EYJ332	M 3.3KOHM, J, 1/10W	
R4818	ERJ66EYJ152	M 1.5KOHM, J, 1/10W	
R4829	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R4837	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R4840	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R4841	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R4842	ERJ66EYJ101	M 100OHM, J, 1/10W	
R4843	ERJ66EYJ471	M 470OHM, J, 1/10W	
R4844	ERJ66EYJ561	M 560OHM, J, 1/10W	
R4850	ERJ66EYJ104	M 100KOHM, J, 1/10W	
R4853	ERJ66EYJ104	M 100KOHM, J, 1/10W	
R4855	ERJ66EYJ101	M 100OHM, J, 1/10W	
R4857	ERJ66EYJ102	M 1KOHM, J, 1/10W	
R4862	ERJ66EYJ822	M 8.2KOHM, J, 1/10W	
R4863	EVMEGSA00B23	VARIABLE RESISTOR	
R503	ERJ66EYJ103	M 10KOHM, J, 1/10W	
R507	ERG5FJ181H	M 82KOHM, J, 3W	
R509	ERG2FJ222H	M 2.2KOHM, J, 2W	
R510	ERG2FJ222H	M 2.2OHM, J, 2W	
R520	ERDS2TJ153	C 15KOHM, J, 1/4W	
R521	ERG2FJS123D	M 12KOHM, J, 2W	
R522	ERDS2TJ101	C 100OHM, J, 1/4W	
R523	ERDS2TJ103	C 10KOHM, J, 1/4W	
R524	ERDS2TJ103	C 10KOHM, J, 1/4W	
R525	ERDS2TJ102	C 1KOHM, J, 1/4W	
R526	ERC14GK184	S 180KOHM, K, 1/4W	
R527	ERC14GK224	S 220KOHM, K, 1/4W	
R530	ERDS2TJ101	C 100OHM, J, 1/4W	
R531	ERC14GK334	S 330KOHM, K, 1/4W	
R532	ERDS2TJ473	C 47KOHM, J, 1/4W	
R533	ERG3FJS821D	M 820OHM, J, 3W	
R535	ERG1FJS332D	M 3.3KOHM, J, 1W	
R536	ERG3FJS821D	M 820OHM, J, 3W	

Ref. No.	Part No.	Part Name & Description	Remarks
R537	ERC12GK104	S 100KOHM, K, 1/2W	
R538	ERC14GK225	S 2.2MOHM, K, 1/4W	
R540	ERDS2TJ560	C 560HM, J, 1/4W	
R545	ERQ2CJP271S	F 270OHM, J, 2W	
R551	ERG3FJ561H	M 560OHM, J, 3W	
R552	ERDS1TJ124	C 120KOHM, J, 1/2W	
R553	ERX2FZJR18H	M 0.180HM, J, 2W	
R557	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R558	ERDS1TJ124	C 120KOHM, J, 1/2W	
R568	ERDS1TJ120	C 120HM, J, 1/2W	
R576	ERQ12HKR39P	F 0.390HM, J, 1/2W	
R577	ERQ14AJ100E	F 100HM, J, 1/4W	
R578	ERJ6ENF1132	M 1.3KOHM, 1/10W	
R579	ERJ6ENF1102	F 11KOHM, J, 1/10W	
R580	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	
R701	ERJ6GEYJ101	M 100OHM, J, 1/10W	
R702	ERX3FJ2R7H	M 2.70HM, J, 2W	
R703	D0DK3R3J0002	M 3.30HM, J, 1/10W	
R704	ERDS2TJ472	C 4.7KOHM, J, 1/4W	
R710	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R711	ERDS1TJ104	C 100KOHM, J, 1/2W	
R715	ERG2SJ272E	M 2.7KOHM, J, 1/10W	
R716	ERQ12AJ680P	F 680HM, 1/2W	
R717	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	
R719	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R720	ERJ6GEYJ302	M 3KOHM, J, 1/10W	
R727	ERJ6GEYJ513	M 51KOHM, J, 1/10W	
R728	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R729	D0D7101JA005	W 3.30HM, J, 10W	
R801	ERC12ZGK825C	S 8.2, OHM, 1/2W	△
R802	D0D72R7KA002	W 2.70HM, K, 7W	
R805	ERG2FJ104H	M 100KOHM, J, 2W	
R806	ERDS2TJ681	C 680OHM, J, 1/4W	
R807	ERDS1TJ682	C 6.8KOHM, J, 1/2W	
R809	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R819	ERX12SJR22V	M 0.220HM, J, 1/2W	
R820	D0D2R15KA003	W 0.150HM, J, 2W	
R821	D0D2R12KA003	W 0.120HM, K, 2W	
R822	ERDS2TJ473	C 47KOHM, J, 1/4W	
R823	ERDS1TJ221	C 220OHM, J, 1/2W	
R824	ERDS2TJ153	C 15KOHM, J, 1/4W	
R825	ERDS1TJ102	C 1KOHM, J, 1/2W	
R827	ERDS1TJ182	C 1.80HM, J, 1/2W	
R828	ERDS1TJ100	C 100HM, J, 1/2W	
R829	ERG2FJ470H	M 470HM, J, 2W	
R830	ERDS1TJ684	C 680KOHM, J, 1/2W	
R831	ERD75TAJ825	C 8.2MOHM, J, 3/4W	
R838	ERJ6GEYJ683	M 68KOHM, J, 1/10W	
R840	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	
R842	ERDS1TJ750	C 750HM, J, 1/2W	
R845	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R850	ERQ2CKPR56S	F 0.560HM, K, 2W	
R854	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R858	ERJ6GEYJ680	M 680HM, J, 1/10W	
R861	ERDS2TJ223	C 22KOHM, J, 1/4W	
R862	ERDS2TJ182	C 1.8KOHM, J, 1/4W	
R863	ERDS2TJ101	C 100OHM, J, 1/4W	
R864	ERDS2TJ472	C 4.7KOHM, J, 1/4W	
R865	ERG3FJ470H	M 470HM, J, 3W	
R867	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	
R868	ERDS2TJ271	C 270OHM, J, 1/4W	
R869	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	
R871	ERJ6GEY0R00	M 0OHM, J, 1/10W	
R882	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R883	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R884	ERJ6GEYJ753	M 75KOHM, J, 1/10W	
R885	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
R886	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
R887	ERG3FJ183H	M 18KOHM, J, 3W	
R889	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
R892	ERDS2TJ391	C 390OHM, J, 1/4W	
R893	ERJ6GEYJ123	M 12KOHM, J, 1/10W	
R894	ERQ14AJ4R7E	F 4.70HM, J, 1/4W	
R896	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R899	ERX2FJ3R9H	M 3.90HM, J, 2W	
R901	ERJ6GEYJ561	M 560OHM, J, 1/10W	
R902	ERDS2TJ122	C 1.2KOHM, J, 1/4W	
R903	ERDS2TJ100	C 100HM, J, 1/4W	
R904	ERG5FJ102H	M 1KOHM, J, 5W	
R905	ERJ6GEYJ241	M 240OHM, J, 1/10W	
R906	ERDS2TJ122	C 1.2KOHM, J, 1/4W	
R907	ERDS2TJ124	C 120KOHM, J, 1/4W	
R908	ERDS2TJ124	C 120KOHM, J, 1/4W	
R909	ERDS2TJ100	C 100HM, J, 1/4W	
R910	ERG3FJ271H	M 270OHM, J, 3W	
R914	ERJ6GEYJ331	M 330OHM, J, 1/10W	
T501	ETH19Y212AZ	H DRIVE TRANS	△
T551	ZTFN56010A	FLYBACK TRANS	△
T701	ETF18L101A	TRANS	△
T849	G4D4Z0000004	SWITCHING TRANS	△
A2	K1KA08B00064	CONNECTOR	
A50	TJSF29207	CONNECTOR	
A9	TJS118590	2P CONNECTOR	
CF805	D4DDD1200001	POSISTOR	△
CF806	D4DDD1200001	POSISTOR	△
D6	TJSF19916	16P CONNECTOR	
D7	TJSF19916	16P CONNECTOR	
D12	TJS3A9680	7P CONNECTOR	
D13	TJS3A9660	CONNECTOR	
D16	TJS3A9640	3P CONNECTOR	
D17	K1KA05A00370	CONNECTOR	
D33	TJS118590	2P CONNECTOR	
D34	TJS118590	2P CONNECTOR	
F801	XBA2C50TR0	FUSE	△
FL1510	ELKE103FA	NOISE FILTER	
FL1511	ELKE103FA	NOISE FILTER	
FL1512	ELKE103FA	NOISE FILTER	
FL1513	ELKE103FA	NOISE FILTER	
FL1705	ELKE103FA	NOISE FILTER	
FL1706	ELKE103FA	NOISE FILTER	
FL1713	J0HAA0000012	EMI FILTER	
G1	TJS3A9890	9P CONNECTOR	
G14	TJS3A9650	4P CONNECTOR	
G16	K1KB05A00021	CONNECTOR	
G20	TJS3A9660	CONNECTOR	
G6	TJSF20016	16P CONNECTOR	
G7	TJSF20016	16P CONNECTOR	
GM1	TJS3A9890	9P CONNECTOR	
JA1	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA1	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA1	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA10	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA11	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA12	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA15	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA16	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA17	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA19	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA2	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA2	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA20	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA21	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA22	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA23	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA24	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA3	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA4	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA5	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA5	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA6	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA6	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA7	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA7	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JA8	ERJ6GEY0R00	M 0OHM, J, 1/10W	
JK3001	K4BK35A00001	AV TERMINAL	
JK3201	K4BK09B00004	AV TERMINAL	

Ref. No.	Part No.	Part Name & Description	Remarks
JS201	ERJ6GEY0R00	M 00HM, J, 1/10W	
JS3135	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3136	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3142	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3143	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3180	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3181	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3185	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3186	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3190	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS3191	ERJ3GEY0R00	M 00HM, J, 1/16W	
JS4815	ERJ6GEY0R00	M 00HM, J, 1/10W	
JS868	ERJ6GEY0R00	M 00HM, J, 1/10W	
JS891	ERJ6GEY0R00	M 00HM, J, 1/10W	
JSD025	ERJ6GEY0R00	M 00HM, J, 1/10W	
JSD026	ERJ6GEY0R00	M 00HM, J, 1/10W	
JSD895	EXCELSA35T	BEAD CORE	
L2	TJS3A9880	8P CONNECTOR	
L3	TJS3A9680	7P CONNECTOR	
L8	K1ZZ00001205	CONNECTOR	
L11	TJS3A9640	3P CONNECTOR	
L12	TJSF41601	CONNECTOR	
LC4801	L2DA00000011	GEOMAGNETIC SENSOR	
LF801	TLP4GD020	LINE FILTER	△
LF802	TLP4GD020	LINE FILTER	△
LF803	TLP4GD020	LINE FILTER	△
RL801	K6B1CDA00027	RELAY	△
RM1001	B3RAC0000005	RECEIVER	
RT1	TJS3A9640	3P CONNECTOR	
RT2	TJS3A9650	4P CONNECTOR	
SC381	TJSC01100	CRT SOCKET	△
SW1003	EVQ11G05R	SWITCH	
SW1004	EVQ11G05R	SWITCH	
SW1005	EVQ11G05R	SWITCH	
SW1006	EVQ11G05R	SWITCH	
SW1007	EVQ11G05R	SWITCH	
SW1008	EVQ11G05R	SWITCH	
SW801	ESB92DA1B	SWITCH	△
TU101	ENG39A02GF	TUNER	△
X1101	H1A6004A0001	CRYSTAL OSC	
X1501	H1A2025A0001	CRYSTAL OSC	
X1502	H2A503300008	CERAMIC RESONATOR	
X1701	H1A5004A0001	CRYSTAL OSC	
X2001	H1A1845A0003	CRYSTAL OSC	