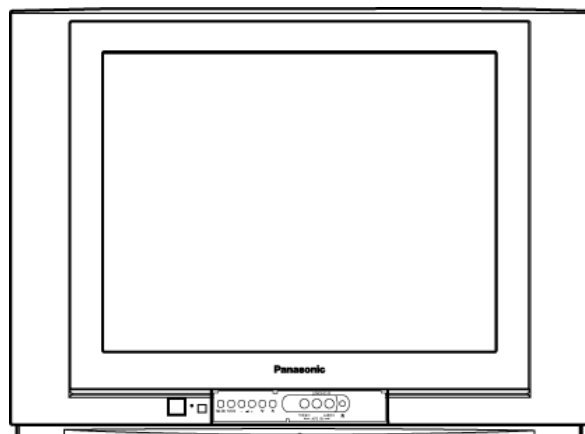


# Service Manual

## Colour Television



### TC-25FJ20R

GP3 Chassis

## Specification

Power Source	AC AUTO 110-240V, 50 / 60Hz	Video	31.5 MHz (D, K) / 32.5 MHz (B, G)
Power Consumption	122 W		32.0 MHz (I) / 32.5 MHz (M)
	Standby condition : 2 W	Sound	33.57 MHz (PAL) /
Aerial Terminal	Impedance : 75 $\Omega$ , Coaxial type	Colour	33.6 MHz (SECAM)
Tuning System	<b>Frequency Synthesizer</b>		34.42 MHz (NTSC) /
	Auto Search Tuning		33.75 MHz (SECAM)
	Pos : 100 Positions	Receiving Stereo Sound System	AV STEREO
Receiving System	17 Systems	Video / Audio / Terminals	
Receiving Channels	Regular TV	AV 1, 2	
VHF BAND	2-12 (PAL / SECAM B, K1)	Y / P <sub>B</sub> / P <sub>R</sub>	(Phone Type) Y:1.0Vp-p 75 $\Omega$ PB,
	0-12 (PAL B AUST.)		PR:0.7Vp-p 75 $\Omega$ Video 1.0Vp-p
	1-9 (PAL B N.Z.)		75 $\Omega$ Audio Approx. 400mV 47K $\Omega$
	1-12 (PAL / SECAM D)		Video 1.0Vp-p 75 $\Omega$
	1-12 (NTSC M Japan)	Monitor Out	Audio Approx. 400mV 47K $\Omega$
	2-13 (NTSC M U.S.A)	High Voltage	30.0 ( + -1.0kV) at zero
UHF BAND	21-69 (PAL G, H, I / SECAM G, K, K1)		beam current
	28-69 (PAL B AUST.)	Picture Tube	A59QDF891X Type 25 (59 cm)
	13-57 (PAL D, K)		Measured diagonally,
	13-62 (NTSC M Japan)	Audio Output	104 ° deflection
	14-69 (NTSC M U.S.A.)		16 W speaker
CATV	S1-S20 (OSCAR)	Dimensions (W x D x H)	717 mm x 502 mm x 530.5 mm
	1-125 (U.S.A. CATV)	Weight (Mass)	31 kg (Net)
	C13-C49 (JAPAN)		
	S21-S41 (HYPER)		
	Z1-Z37 (CHINA)	<b>Note:</b>	
	5A, 9A (AUST)	Specifications are subject to change without notice. Mass and dimensions shown are approximate.	
Intermediate Frequency	38.0 MHz		

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**⚠ 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.

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# 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. Fig. 1.

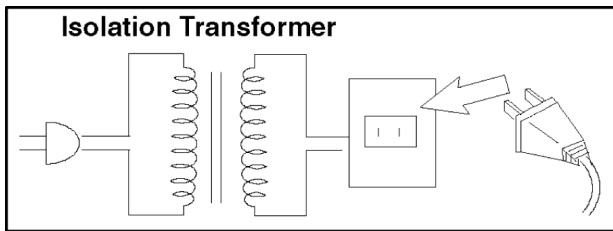


Fig. 1

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, observe that all the protective devices such as insulation barriers, insulation papers, shields, and insulation 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 **31kV** kV is present when this receiver is in operation. Operation of the receiver without 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.

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. Fig. 2.

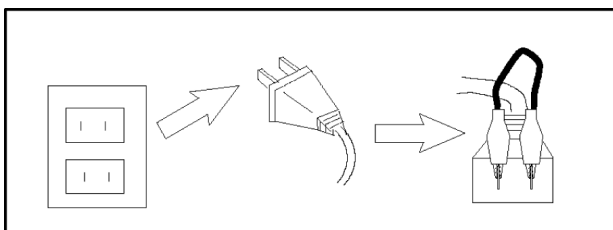


Fig. 2

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, aerals, 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 zero.

## 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 kΩ, 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. 3.

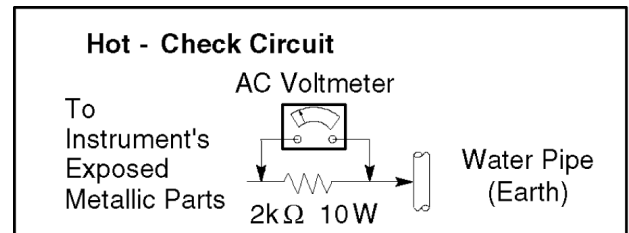


Fig. 3

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 re-checked before it is returned to the customer. Fig. 4.

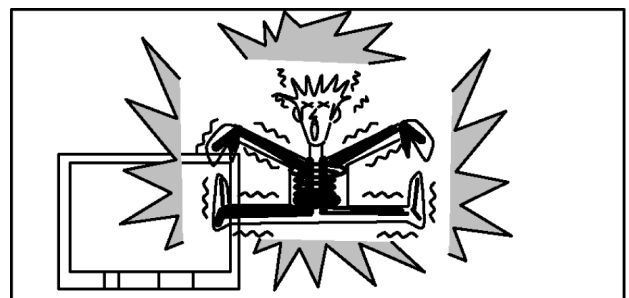


Fig. 4

## 1.4. X-Radiation

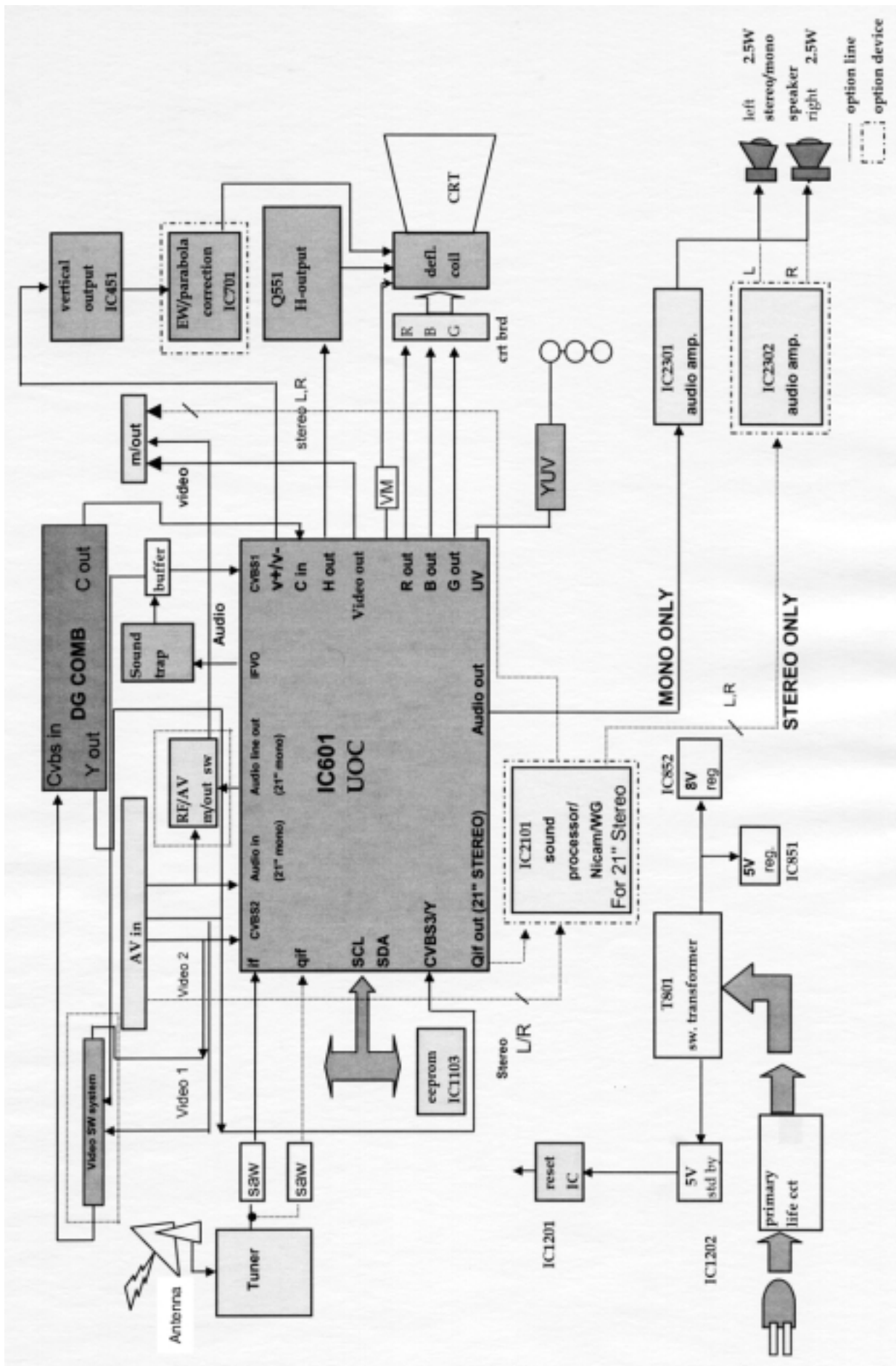
Warning :

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 **30 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 **30.0 ± 1.0kV**. 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.

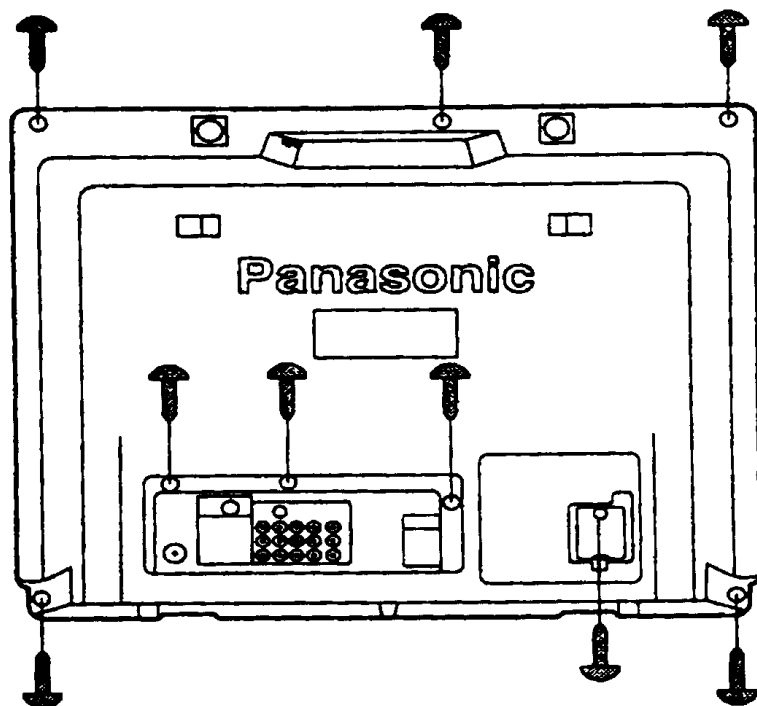
## 1.5. GP3 Block Diagram



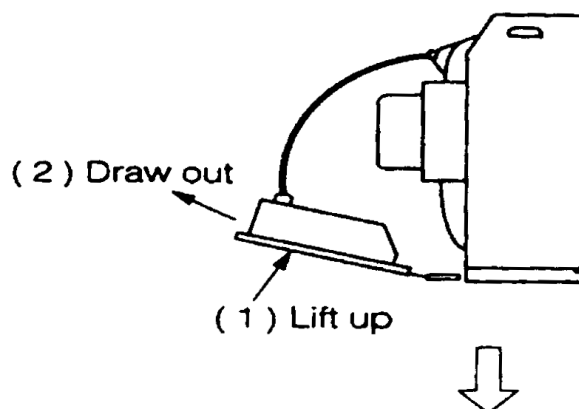
## 2 Service Hints

### 2.1. HOW TO MOVE CHASSIS INTO SERVICE POSITION.

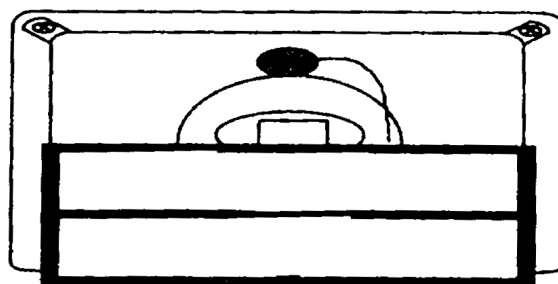
1. Remove 9 screws.



2. Draw out Main Chassis.



3. Stand the Main Chassis.



### 3 Market Mode Function

#### Outline:

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

#### 1. Selection of Market Mode

Adjust the VOLUME “zero” and set OFF TIMER Button to 30 min. Then, simultaneously press the RECALL Button on the remote control and the VOLUME DOWN button - the TV set.

#### 2. Selection of CHK Mode

Cursor moves each CHK Mode by pressing “1” or “2” of 10 key button on the remote control.

#### 3. Set to normal mode

Press the volume down button on front control, together press the off timer button on remote control.

#### 1. CHK 1

OPTION 1	F2
OPTION 2	00
OPTION 3	8C
OPTION 4	77
OPTION 5	95
OPTION 6	34
OPTION 7	91
OPTION 8	25
OPTION 9	00

#### 2. CHK 2

RF AGC	17
BRT	50
S-TINT	31
TINT	50
S-COL	33
COL	50
CONT	100

#### 3. CHK 3

V-SLOPE	37
H-BOW	31
H-PARA	35
EW-TRAPE	23
EW-LOW COR	42
EW-UP COR	39
EW-PARA	26
EW-WIDTH	36
H-SHIFT	37
V-AMP	25
V-SHIFT	43

#### 4. CHK 4

R CUT	26
RGB CONT	4
B-DR	49
G-DR	31
R-DR	27
S-CONT	21
CONT	100
S-BRT	33
BRT	50
G-CUT	28
R-CUT	26

## 4 Adjustment Procedure

### 4.1. Adjustment Procedure

Item / Preparation	Adjustment Procedure
<b>+B Voltage</b> 1. Operate the TV set. 2. Set control as follows : Brightness ..... minimum Contrast ..... minimum	Confirm the DC voltage at the indicated test points, as follows : TPA 10 : $141.0 \pm 1.5V$ TPA 8 : $8 \pm 1V$ TPA 9 : $5 \pm 1V$ TPA 21 : $215 \pm 15V$
<b>RF AGC</b> 1. Receive a colour bar signal at an RF level of 69 +1-2 dBu with 75Ω loaded. 2. Connect digital multimeter to RF AGC at Tuner.	1. Select "RF AGC" indication in CHK2, on Screen by remote control at factory mode. 2. Set RF AGC by using remote control Volume (+) or Volume (-) button until voltage AGC at Tuner reaches $2.6 \pm 0.1V$ at TPA 15 (Tuner point). 3. Increase RF signal strength by 2dB, confirm AGC at Tuner voltage drop.
<b>High Voltage</b> 1. Receive the crosshatch pattern. 2. Set to 0 Beam. Screen VR ..... minimum Contrast ..... minimum	1. Connect a DC voltage meter to TPA 12 and confirm the +B voltage is $141.0 \pm 1.5V$ . 2. Connect a high frequency voltmeter to heater and confirm that voltage reads $6.3 \pm 0.24$ (VRMS). 3. Normalize the brightness and contrast.
Item / Preparation	Adjustment Procedure
<b>NTSC TINT COLOUR</b> Connect oscilloscope probe to TPL1 (R OUT) with 10kΩ series resistor. Press Main Menu and set system to use AV-NTSC (3.58 MHz). DYNAMIC..... Normal Channel CLR Set ..... STD	1. Adjust Sub-Tint so that No. 2, 3 and 4 becomes level waveform is similar to Fig. 3. 2. Confirm phase at Tint is changes more than $\pm 15$ by Tint control. 3. Confirm that colour level is maximum when colour DAC is adjusted to maximum position. <b>Note:</b> Use remote control only when adjusting user mode to Sub-Tint.

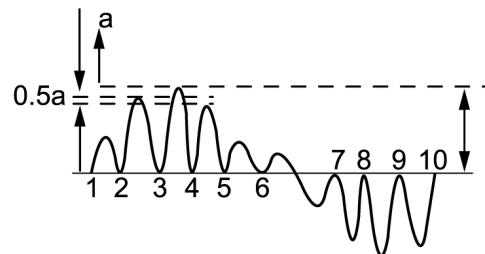
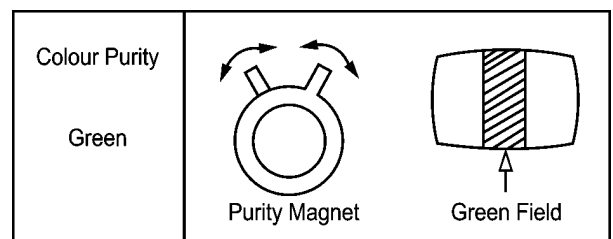


Fig. 3

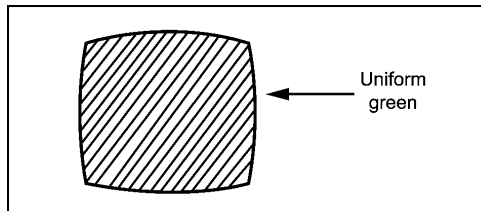
### 4.2. COLOUR PURITY

- Set Bright and Contrast controls to their maximum positions.
- Operate the TV set over 60 minutes.
- Full degauss the picture tube by using an external degaussing coil. By rotating R-B static convergence magnet.
- Apply a crosshatch pattern signal and adjust roughly the static convergence magnets.
- Apply a green pattern signal.
- Loosen a clamp screw for the Deflection Yoke and move the Deflection Yoke as close to the purity magnet as possible.

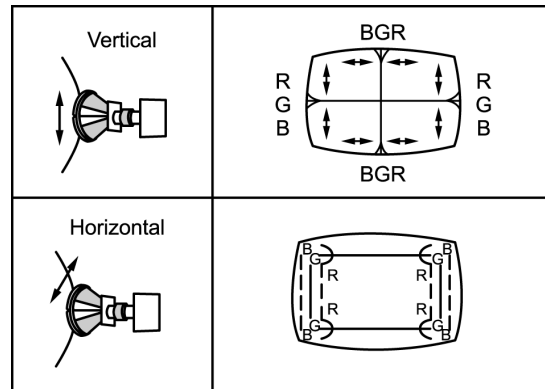
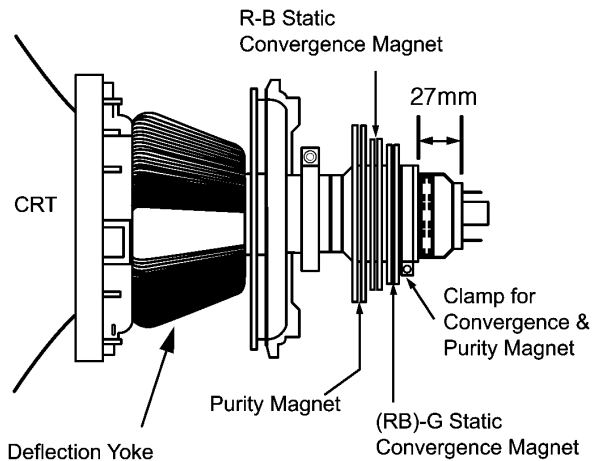
- Adjust the purity magnet so that a vertical green field is obtained at the center of the screen.



- Slowly press the Deflection Yoke and set it where a uniform green field is obtained.



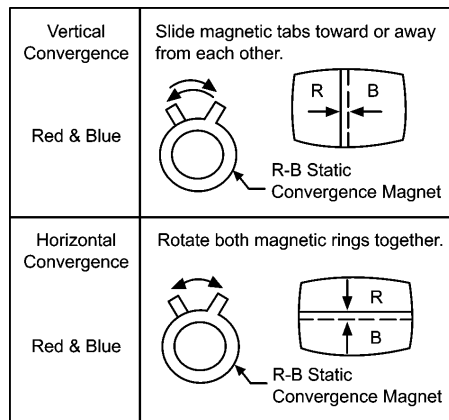
9. Adjust roughly the Low Light controls and make sure that a uniform white field is obtained.
10. Tighten the clamp screw.



7. Fix the Deflection Yoke by re-inserting the DY wedges.
8. If purity error is found, repeat "Colour Purity" adjustment.

### 4.3. CONVERGENCE

1. Apply a crosshatch pattern signal and set Contrast control to the maximum position.
2. Adjust Bright control to obtain a clear pattern.
3. Adjust Red and Blue line at center of the screen.



4. Adjust Red and Blue with Green line at center of the screen by rotating (RB)-G static convergence magnet.
5. Lock convergence magnets with silicone sealer.
6. Remove the DY wedges and slightly tilt the Deflection Yoke vertically.



## 4.4. WHITE BALANCE (MARKET MODE CHK 4)

### Preparation

1. Receive a colour bar signal with colour "OFF", and operate the TV set for more than 30 minutes.
2. Set the picture menu to "DYNAMIC NORMAL" and the AI to off.
3. Connect an oscilloscope to TPL5 with DC mode.
4. Set the TV set to Market Mode : white balance adjustment (CHK 4).
5. Screen VR : Min.
6. Set the data level of RGB CUT OFF / DRIVE and SUB BRIGHT.

Display	Data Level
R-CUT OFF	63
G-CUT OFF	128
B-CUT OFF	63
R-DRIVE	128
B-DRIVE	128
SUB BRIGHT	63

### Adjustment

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

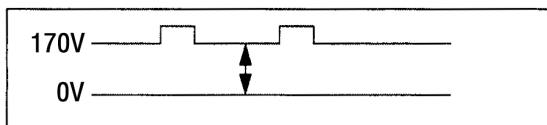
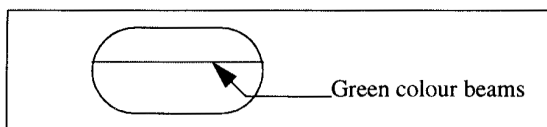


Fig. 1

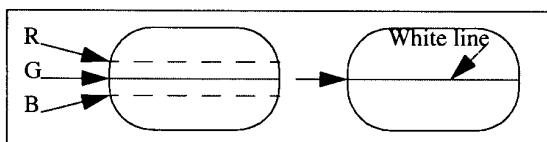
3. Slowly turn the screen control clockwise until a green colour horizontal line appears on the picture tube. This is the setting point for the screen control.

Note:

Do not adjust the G-CUTOFF setting in the following procedure.



4. Adjust the remaining 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 a 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.

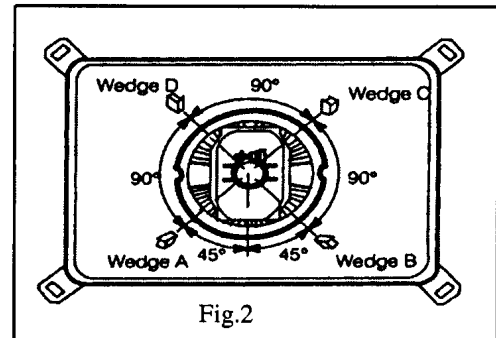


Fig.2

8. Wedge A shown in Fig. 2 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.

4.5. ADJUSTMENT OF CRT VRS

NOTE: FOR FLAT CRT ONLY

PREPARATION

- 1. Set DY to CRT not to tilt up and down left and right deflection.
- 2. Set CY to CRT and set CY magnet primarily.  
Pur Mg : Set Pur Mg that 2 magnets are (top position)  
VRS Mag : Set VRS Mg that 2 magnets are (horizontal position) only 21", 25" & 29"
- 3. Set geomagnetic corection DAC. AS IN TABLE 1.

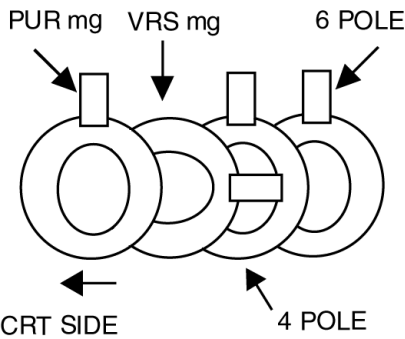
ADJUSTMENT

- 1. Receive the white balance pattern.
- 2. Adjust V-CENTER.
- 3. Set R, B CUT OFF to minimum, and set G CUT OFF to center.
- 4. Receive the aging pattern.
- 5. Set 2 magnet of vertical position to up and down equally so that center part of CRT (Fig 4)

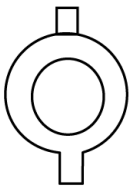
	MANNUAL	AUTO
DAC	0	1

TABLE 1

CY

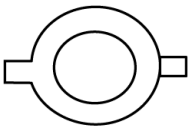


Pur Mg



Pur set to top (vertical)

VRS Mg



\* VRS set to horizontal position

FIG 3

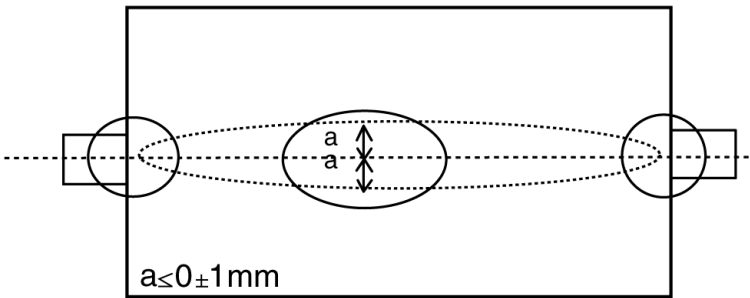
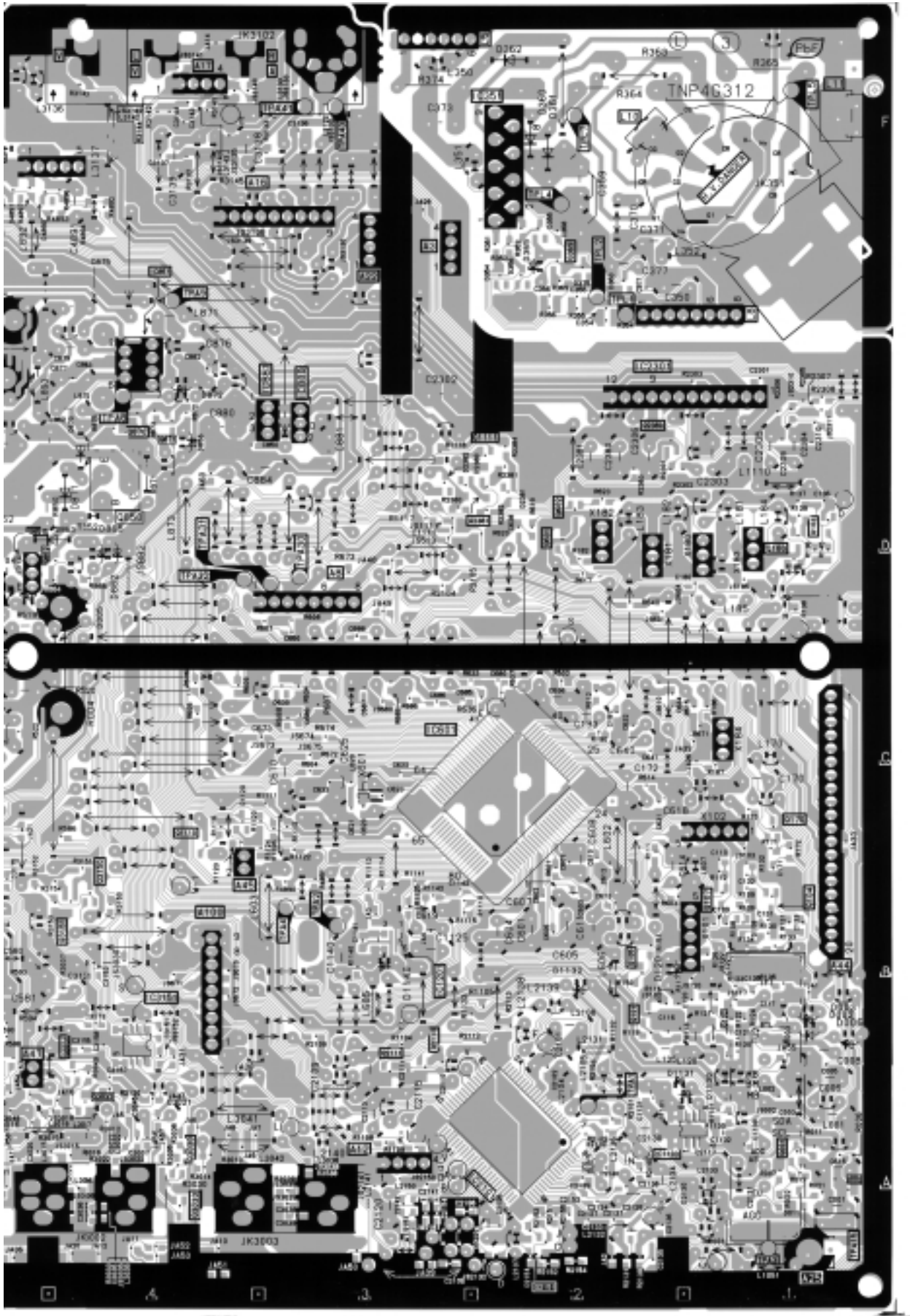


FIG 4



## 5.2. A-Board 2 / 2



## 6 Schematic Diagrams

### 6.1. SCHEMATIC DIAGRAM FOR GP3 CHASSIS

#### 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 [ $\Omega$ ] (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  $\mu$ F, unless otherwise noted.

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

##### 3. Coil

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

##### 4. Test Point

$\bigcirc$  : Test Point position

##### 5. Earth Symbol

$\text{---} \text{---}$  : 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.

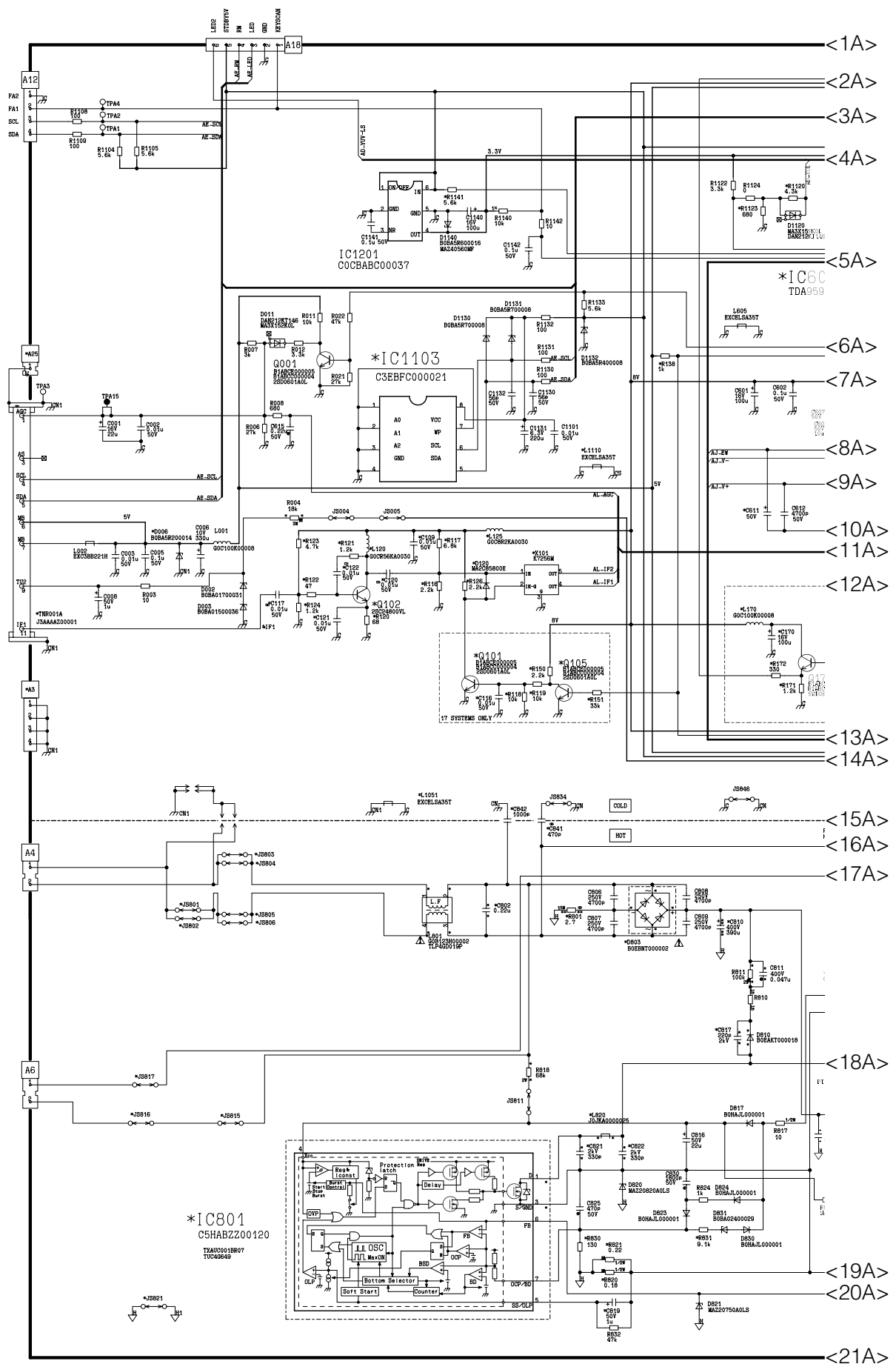
All circuits, except the Power Circuit, are cold.

**Precautions**

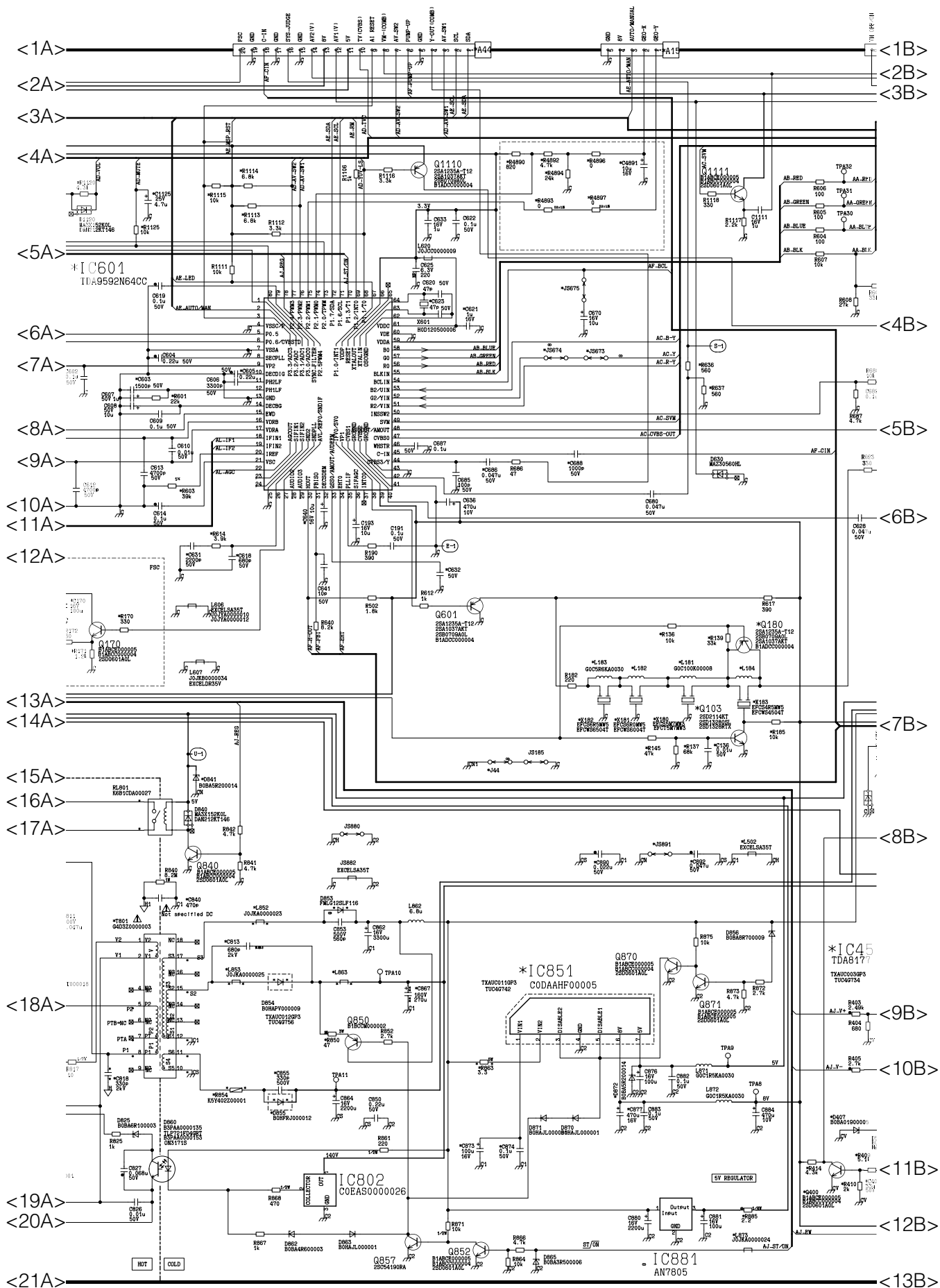
- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
  - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
  - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or 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)

## 6.2. A Board

### 6.2.1. A Board (1 / 5)

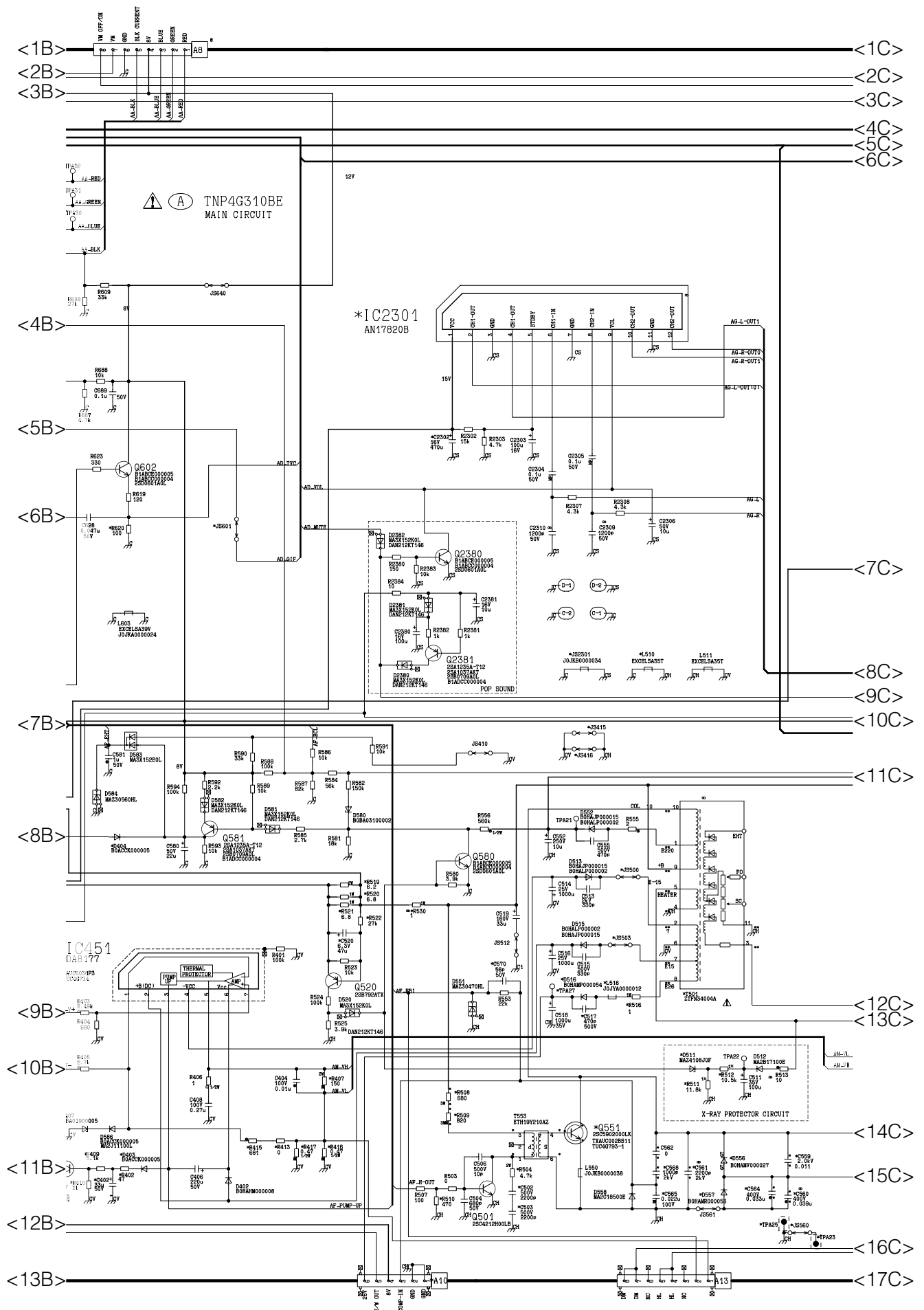


### 6.2.2. A Board (2 / 5)

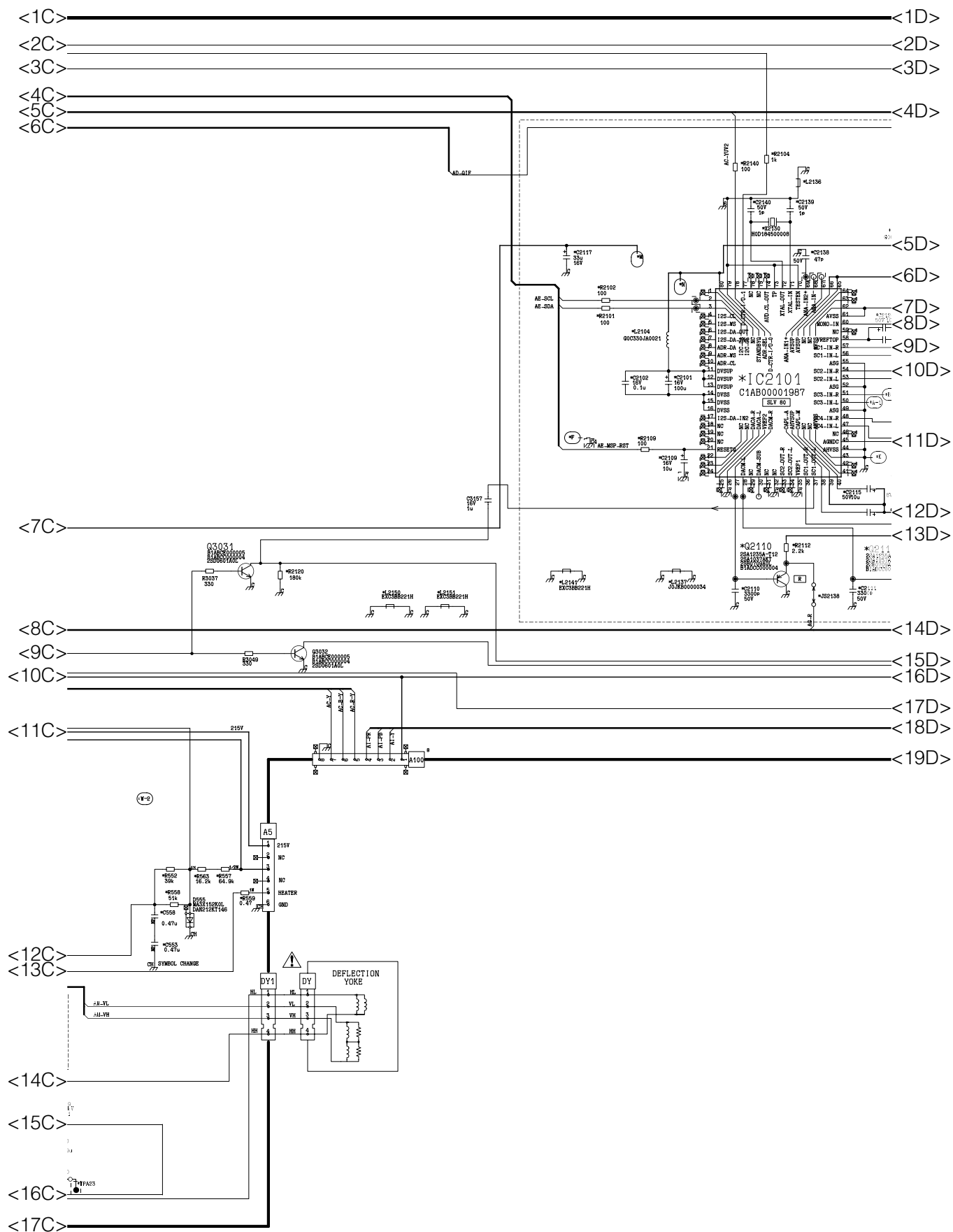




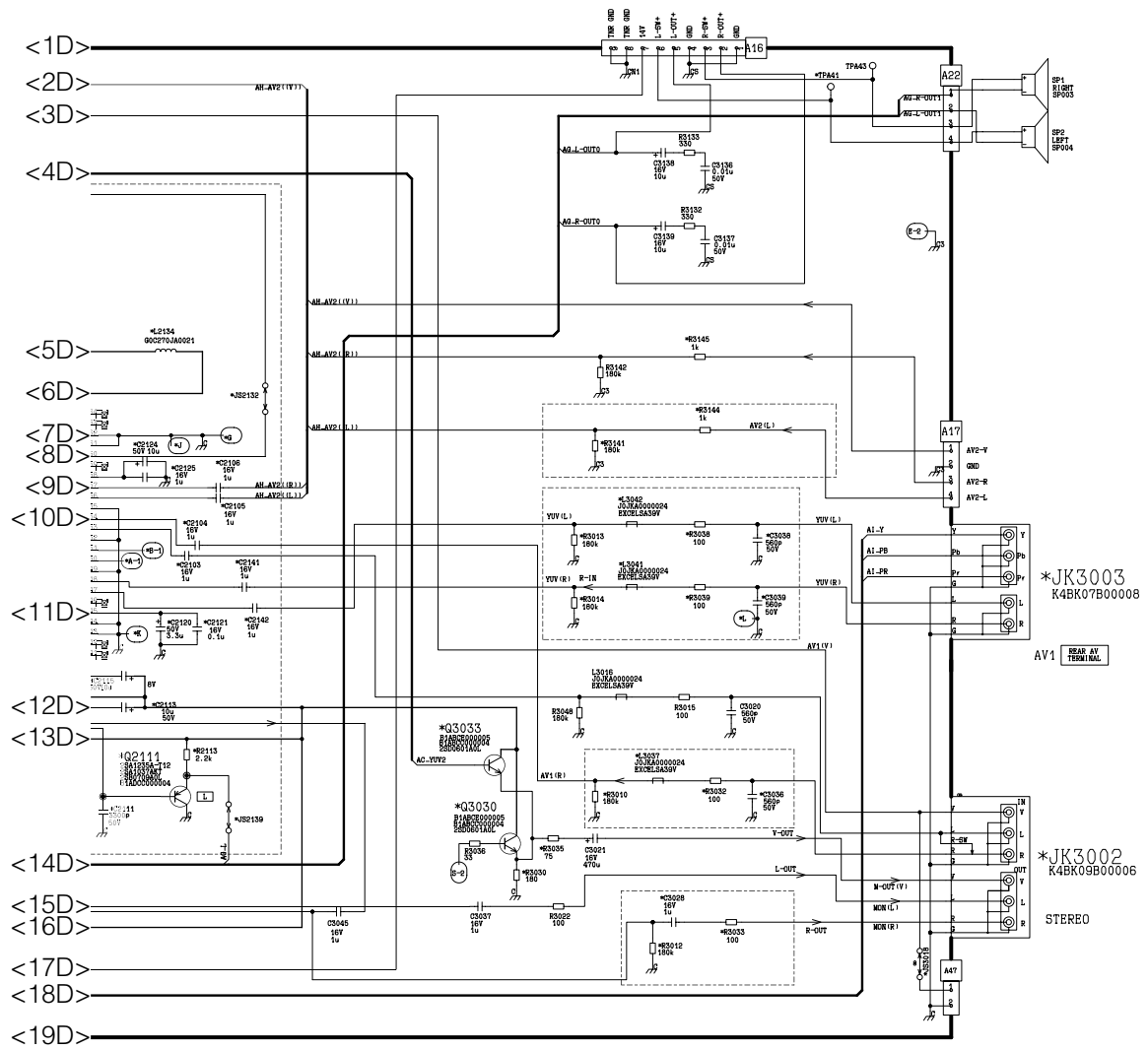
### 6.2.3. A Board (3 / 5)



#### 6.2.4. A Board (4 / 5)

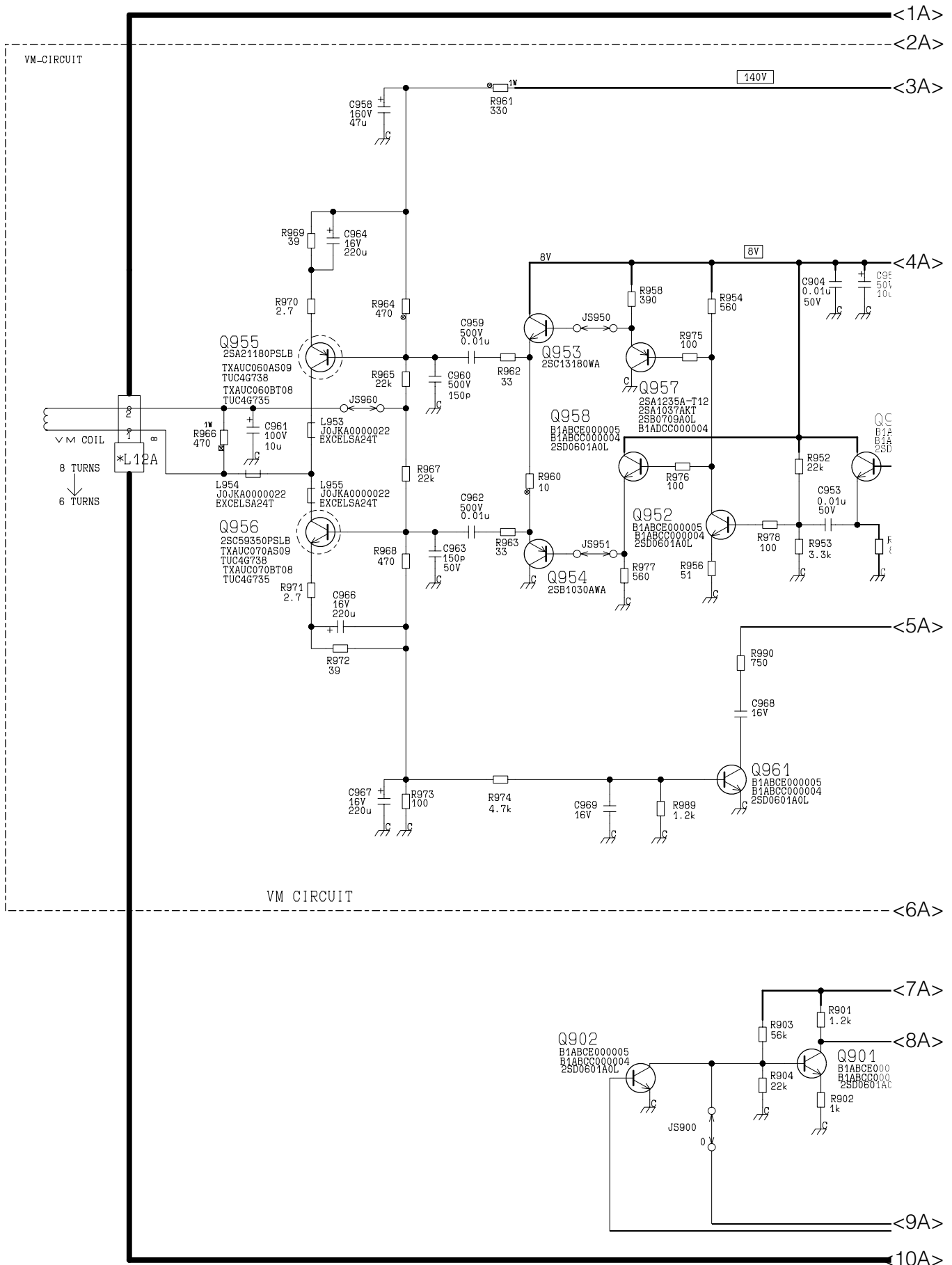


## 6.2.5. A Board (5 / 5)

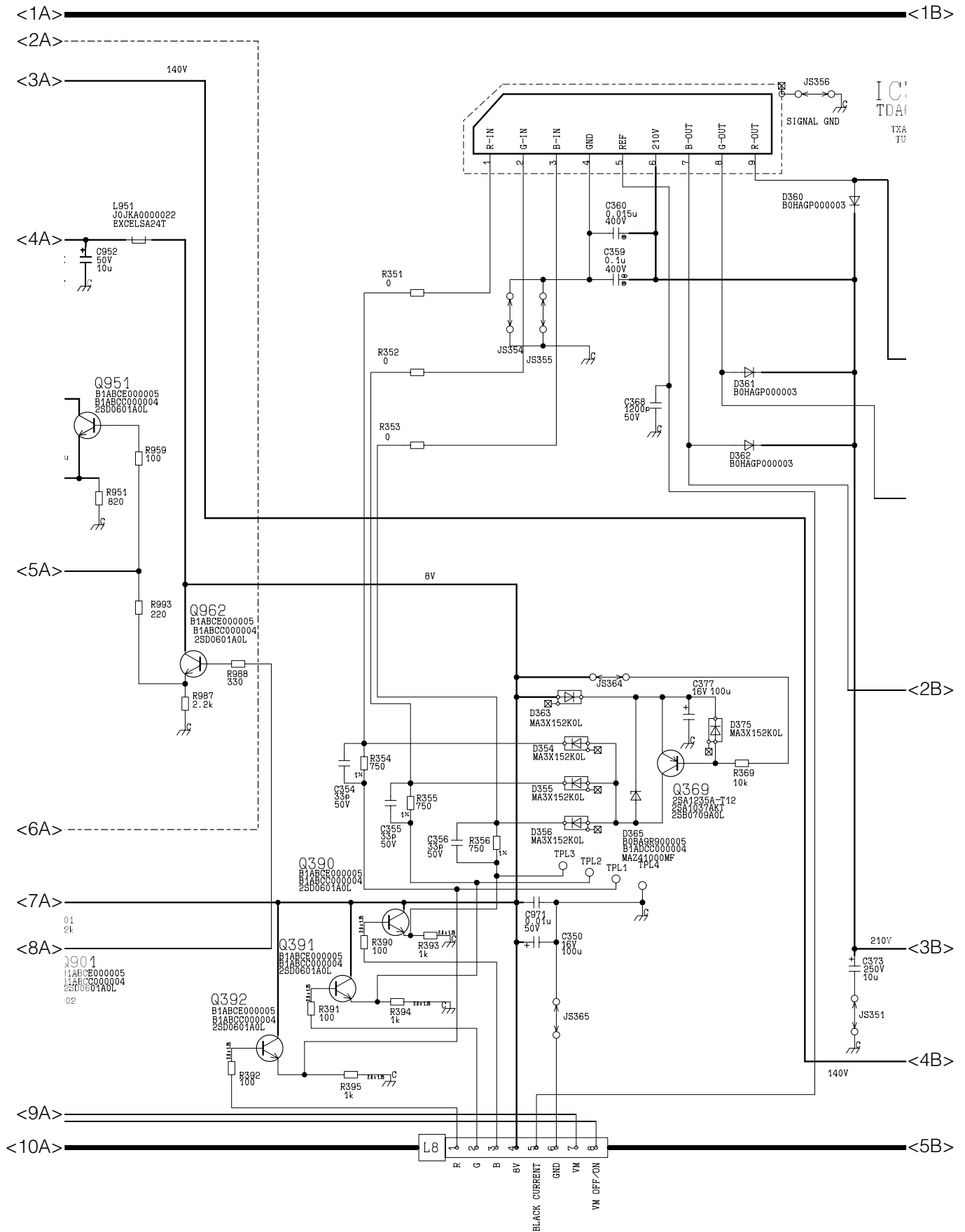


## 6.3. L Board

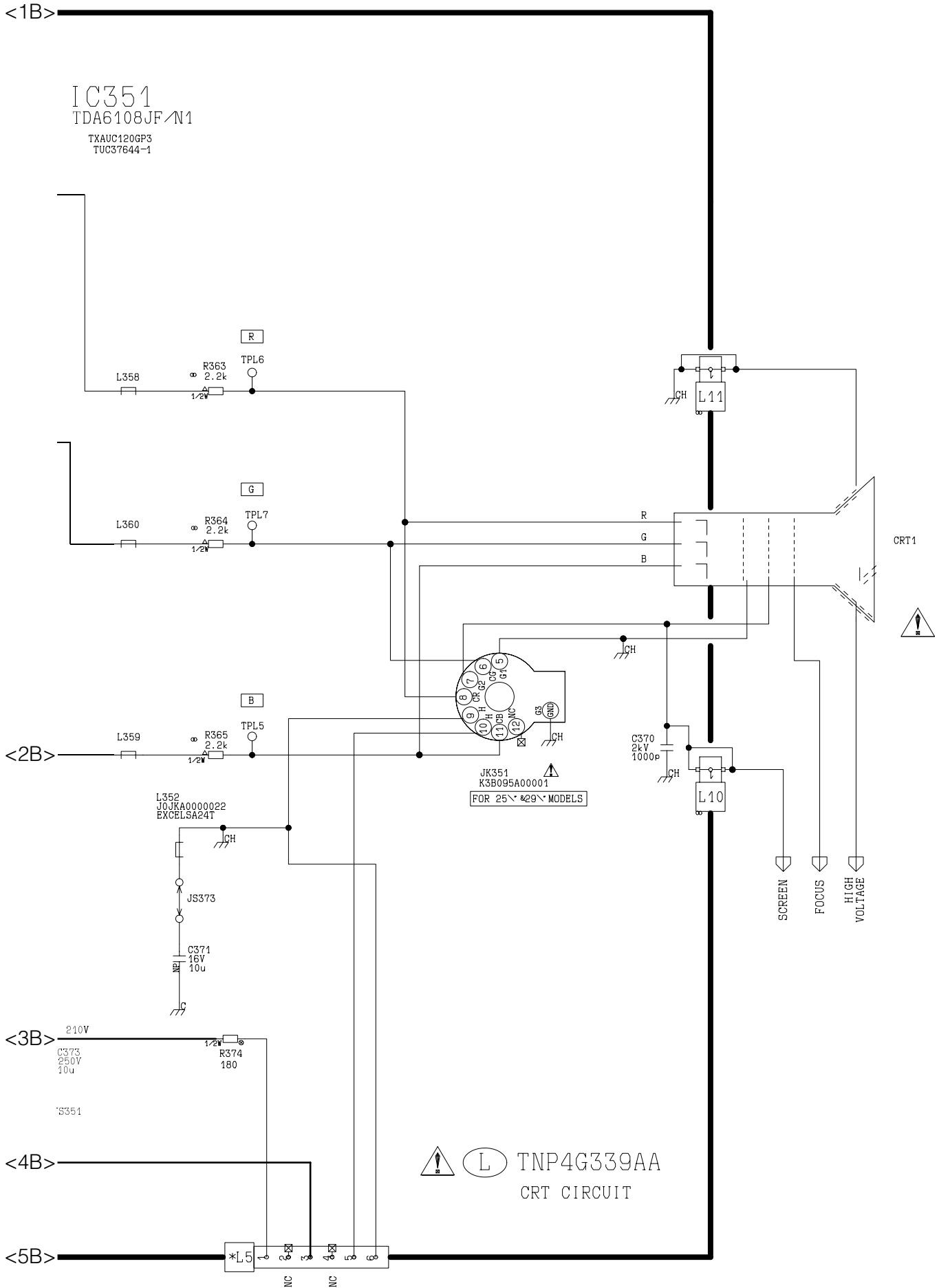
### 6.3.1. L Board (1 / 3)



### 6.3.2. L Board (2 / 3)

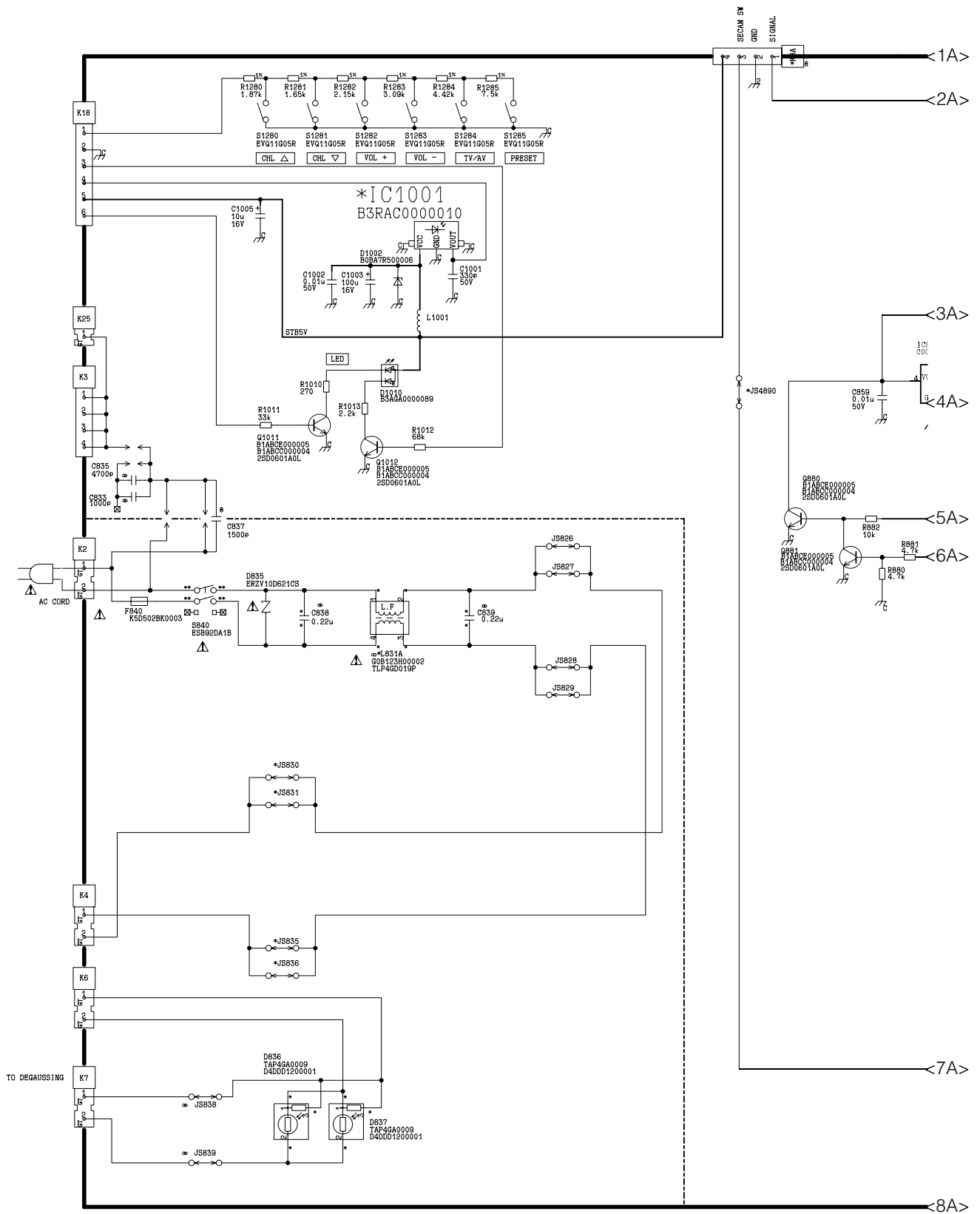


### 6.3.3. L Board (3 / 3)

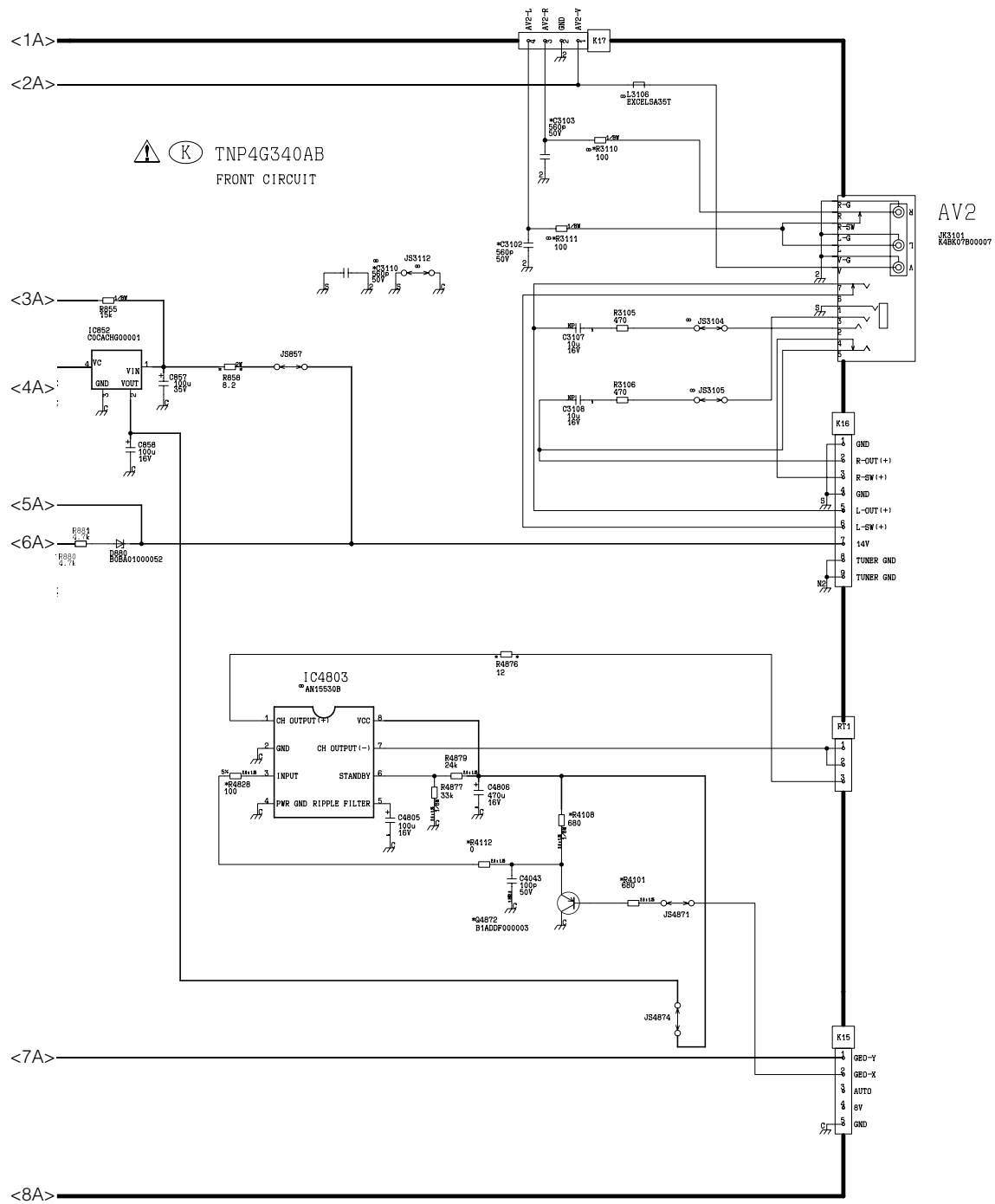


## 6.4. K Board

### 6.4.1. K Board (1 / 2)



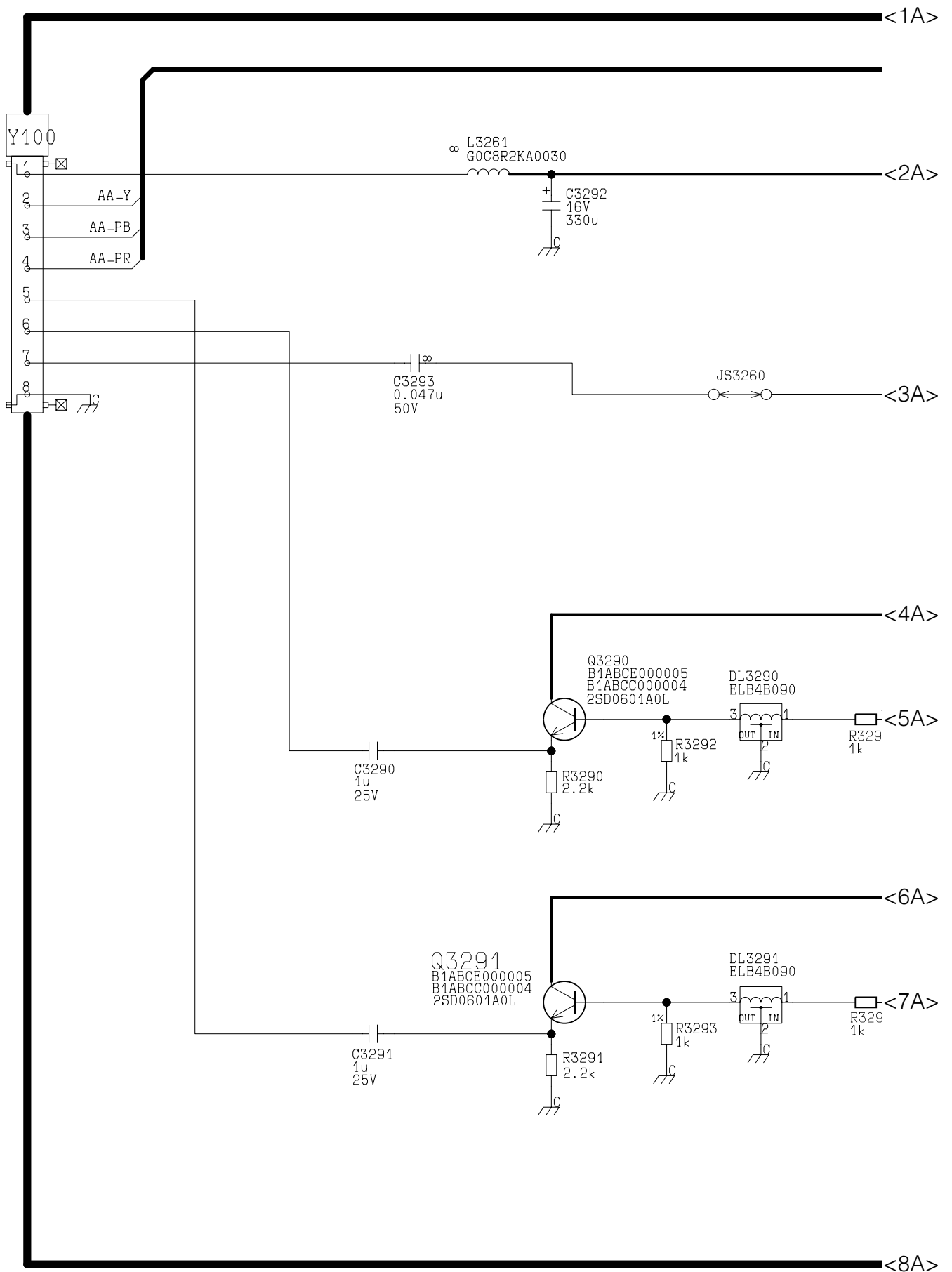
#### 6.4.2. K Board (2 / 2)



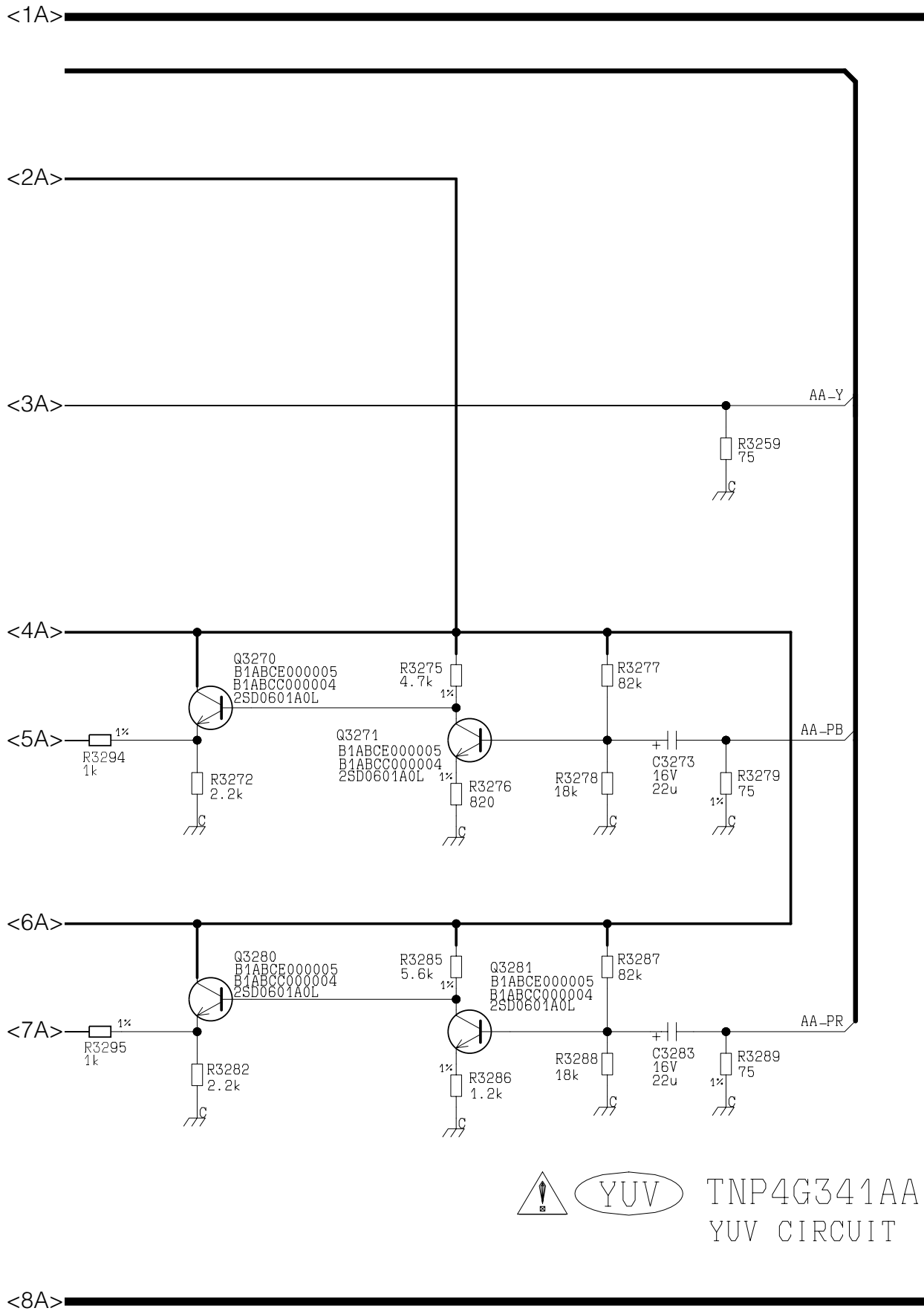


## 6.5. YUV Board

### 6.5.1. YUV Board (1 / 2)

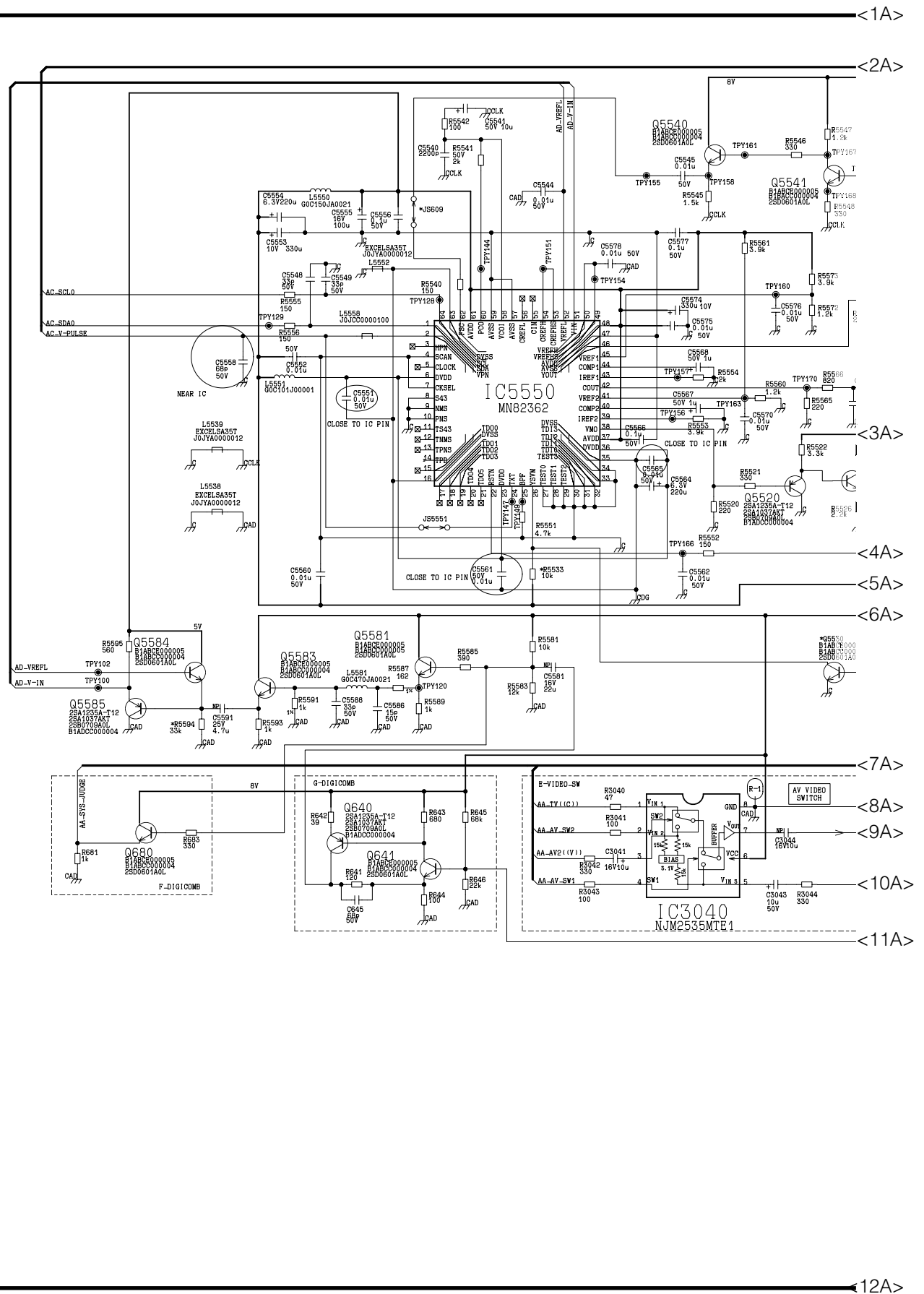


## 6.5.2. YUV Board (2 / 2)

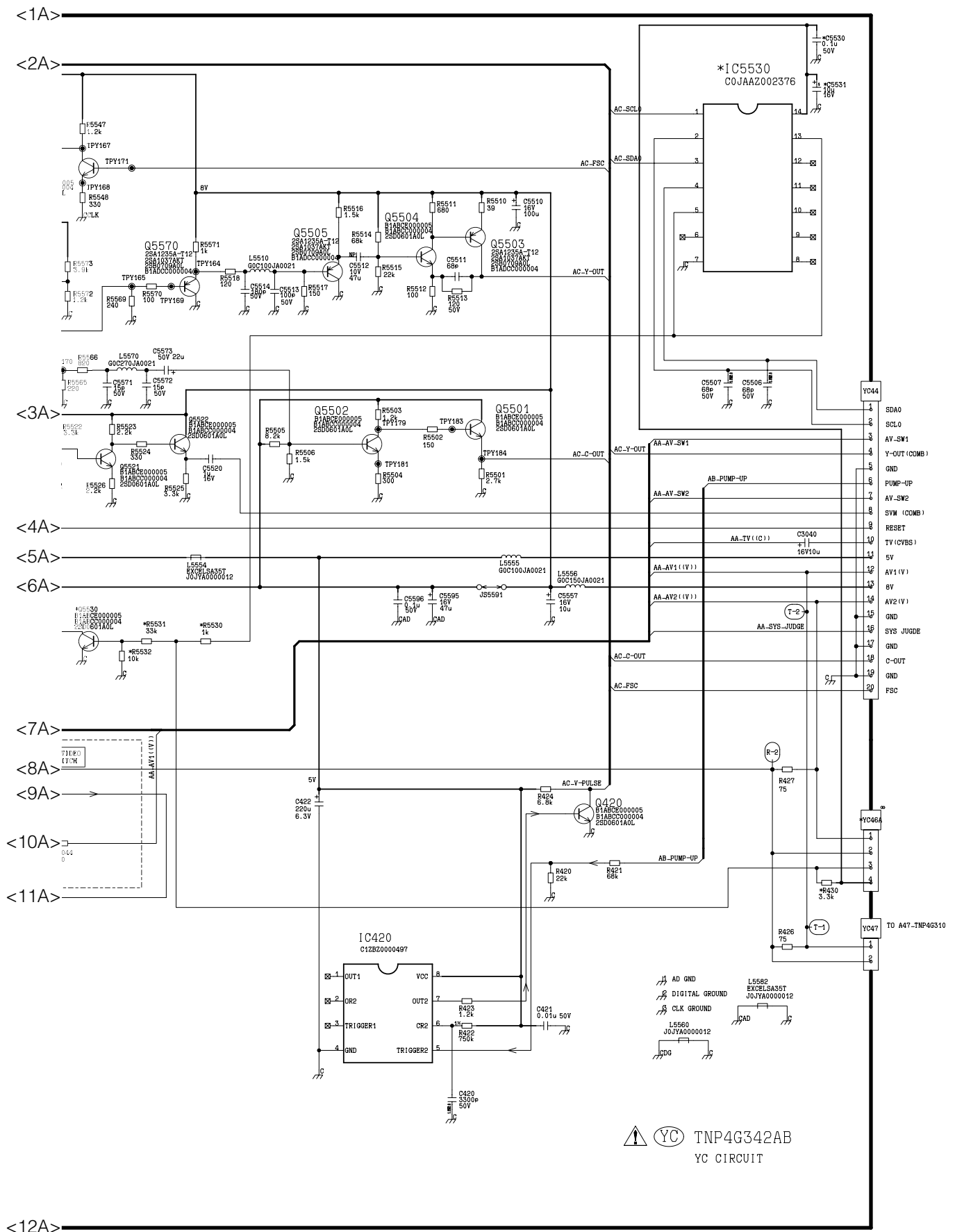


## 6.6. YC Board

### 6.6.1. YC Board (1 / 2)

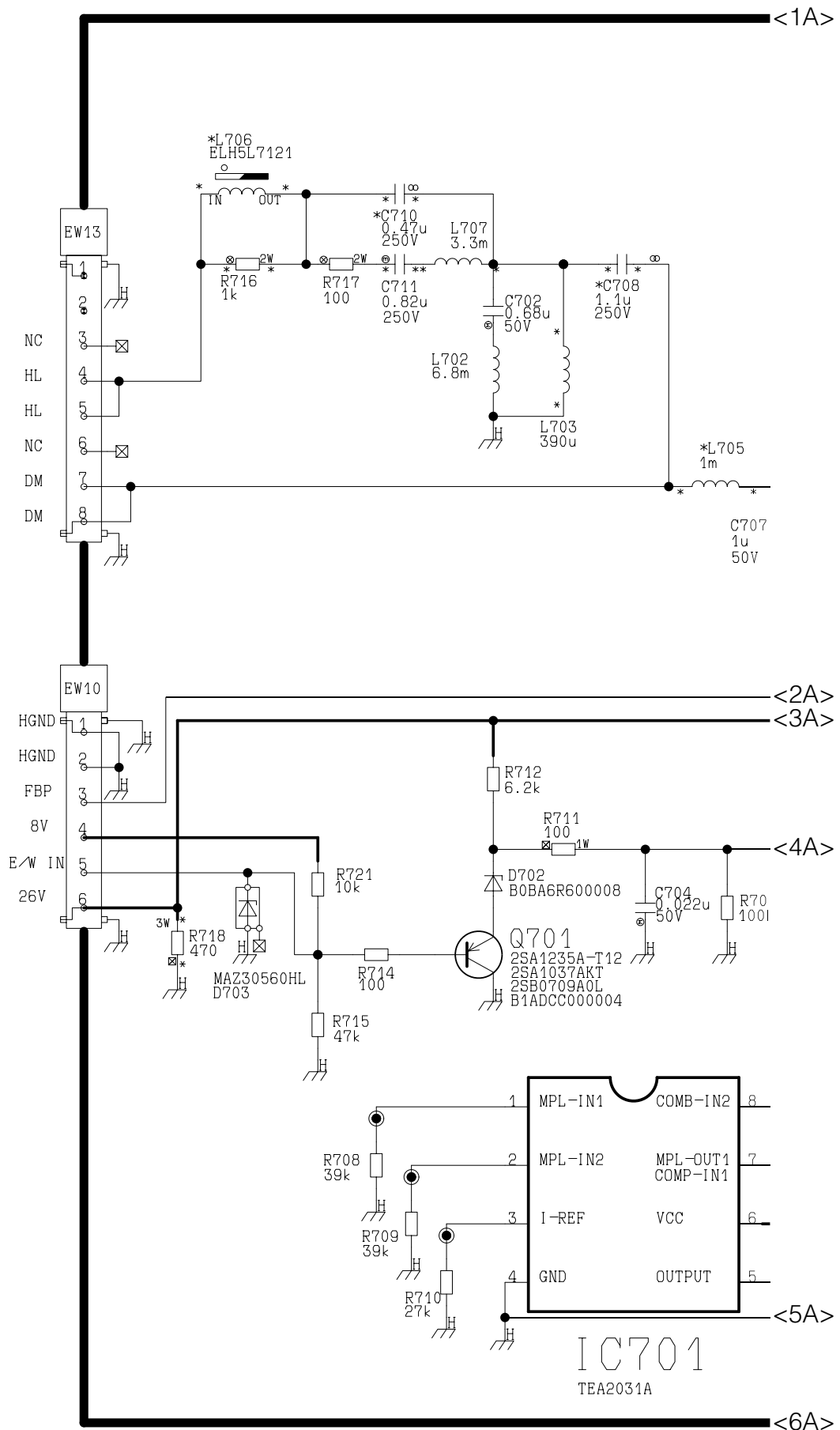


### 6.6.2. YC Board (2 / 2)

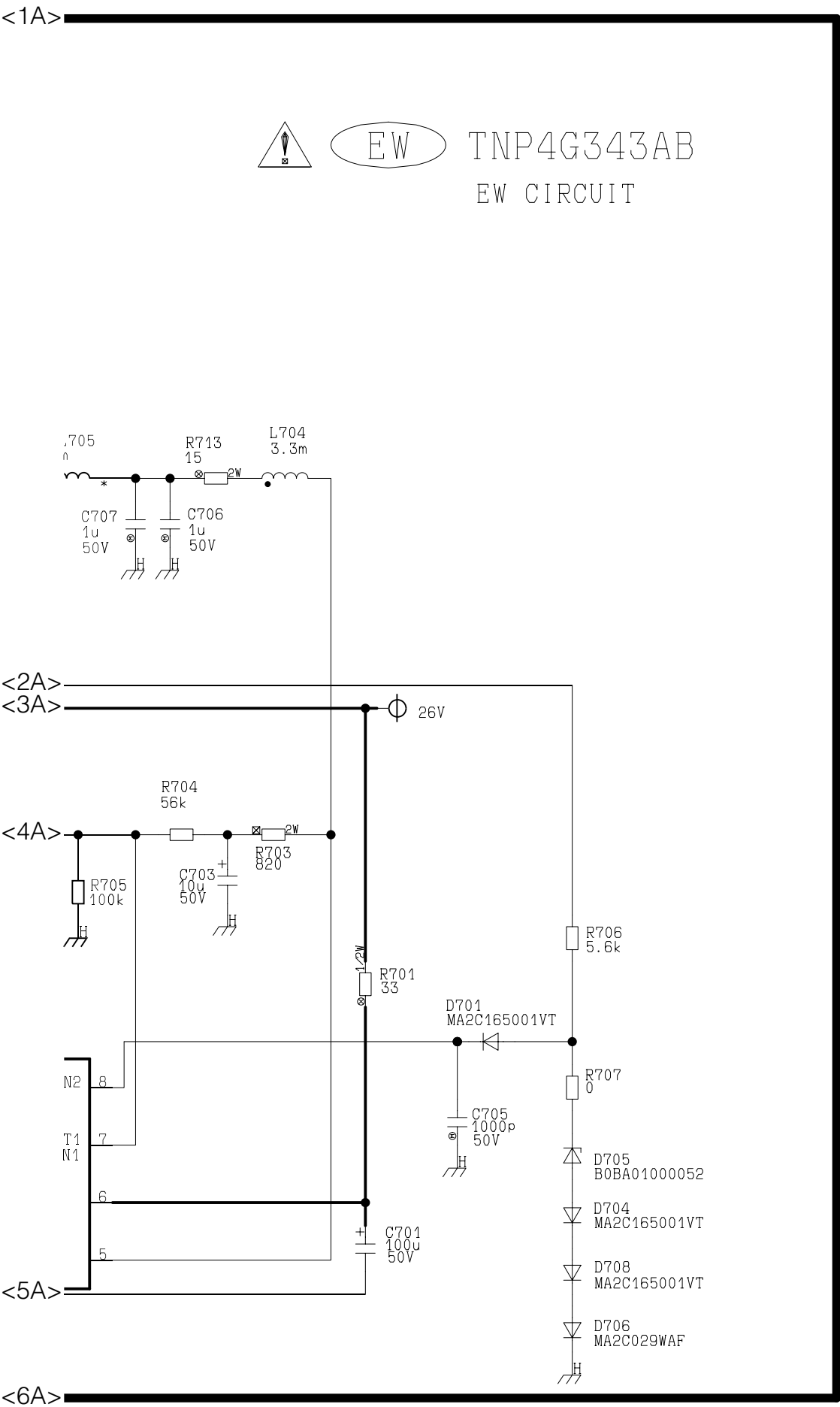


## 6.7. EW Board

### 6.7.1. EW Board (1 / 2)



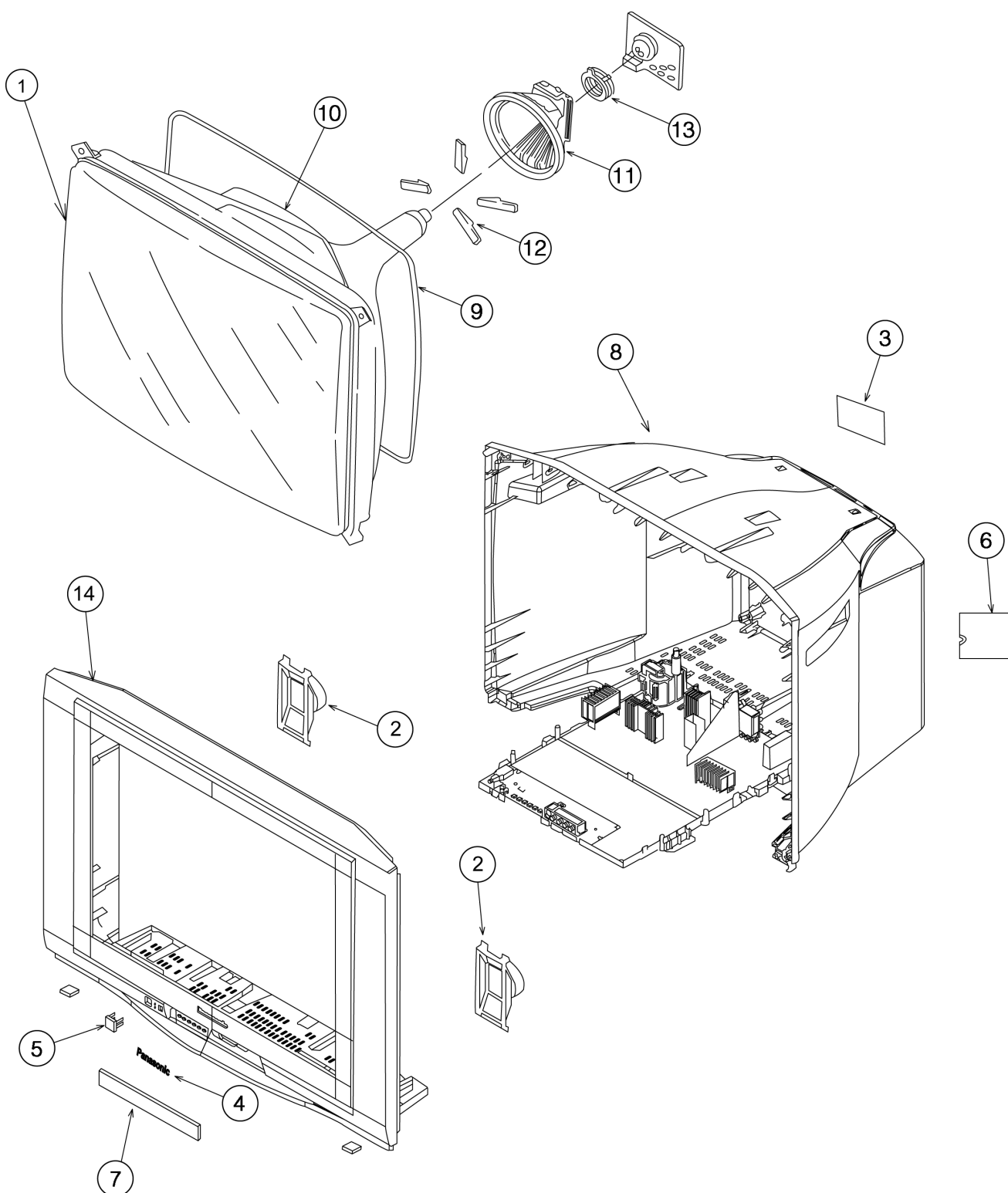
6.7.2. EW Board (2 / 2)



## 7 Parts Locations

### PARTS LOCATION


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



## 8 Replacement Parts List

## 8.1. Replacement Parts List Notes

## Important Safety Notice

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

### RTL (Retention Time Limited)

**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 100KOHM, J, 1/4W

Type	Allowance
------	-----------

## 2. Capacitor

Example:

ECKF1H103ZF	<u>C</u>	0.01UF, <u>Z</u> , 50V
	Type	Allowance

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

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



## 8.2. Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
1	A59QDF891X	PICTURE TUBE	△
2	EASG15S02H2	SPEAKER	
	EUR7717010	REMOTE CONTROL	
	KRCBC160928B	CORE CLAMPER	
	TBL4G3403	SET LEG	
	TBL4G3405	SET LEG	
3	TBM4G1071	MODEL NAME PLATE	△
4	TBM4G3013	PANASONIC BADGE	
5	TBX4G90101	POWER BUTTON	
	TES4G406	COIL SPRING	
	THT4G1006R	CRT SCREW	
	THT4G1010R	SCREW (SPEAKER)	
	THT4G1013R	SCREW	
	TJB1726400	75OHM ADAPTOR	
6	TKP4G11744	AC CORD BRACKET	
7	TKP4G13031	DOOR	
8	TKU4GA1221	BACK COVER	
9	TLK4G9075X	DEGAUSSING COIL	△
10	TLK4G9083T	ROTATION COIL	△
11	TLY4G328S	DEFLECTION YOKE	
12	TMM4G503	RUBBER WEDGE	
NLA	TNP4G310BE	A BOARD	△
NLA	TNP4G339AA	L BOARD	△
NLA	TNP4G340AB	K BOARD	△
NLA	TNP4G341AA	YUV BOARD	△
NLA	TNP4G342AB	YC BOARD	△
NLA	TNP4G343AB	EW BOARD	△
13	TP-13000PX2	CONVERGENCE YOKE	
	TPE4G14037	SET COVER	
	TQB4G3759	FAN BAG	
	TSM10032-4	PURITY MAGNET	
	TSN63115-4	PURITY MAGNET	
	TSX4G194L	AC POWER CORD	△
14	TXFKY02BS19	CABINET ASSY	
	TXFPC01BG33	CARTON	
	TXFPD01BG33	CUSHION (TOP)	
	TXFPD02BG33	CUSHION (BOTTOM)	
	CAPACITORS		
C001	ECEA1CKA220	E 22UF, 16V	
C002	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C003	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C005	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C006	ECA1AM331B	E 330UF, 10V	
C008	ECEA1HKA010	E 1UF, 50V	
C1001	ECJ2VC1H331J	C 330PF, J, 50V	
C1002	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1003	ECA1CM101B	E 100UF, 16V	
C1005	ECA1CM100B	E 10UF, 16V	
C109	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1101	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1111	ECJ2VF1C105Z	C 1UF, Z, 16V	
C1125	ECEA1EKS4R7	E 4.7UF, 25V	
C1130	ECJ2VC1H560J	C 56PF, J, 50V	
C1131	ECA0JM221B	E 220UF, 6.3V	
C1132	ECJ2VC1H560J	C 56PF, J, 50V	
C1140	ECEA1CKA101	E 100UF, 16V	
C1141	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C1142	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C116	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C117	ECJ2VB1H103J	C 0.01UF, 50V	
C120	F1B1H103A013	C 0.01UF, 50V	
C121	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C122	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C136	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C170	ECA1CM101B	E 100UF, 16V	
C191	ECUX1H104KBX	C 0.1UF, K, 50V	
C193	ECA1CM100B	E 10UF, 16V	
C2101	ECA1CM101B	E 100UF, 16V	
C2102	ECJ2VF1C104Z	C 0.1UF, Z, 16V	
C2103	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C2104	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C2105	ECJ2ZF1C105Z	C 1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2106	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C2109	ECA1CM100B	E 10UF, 16V	
C2110	ECJ2VB1H332K	C 3300PF, K, 50V	
C2111	ECJ2VB1H332K	C 3300PF, K, 50V	
C2113	ECA1HM100B	E 10UF, 50V	
C2115	ECA1HM100B	E 10UF, 50V	
C2117	ECA1CM330B	E 33UF, 16V	
C2120	ECEA1HKS3R3	E 3.3UF, 50V	
C2121	ECJ2VF1C104Z	C 0.1UF, Z, 16V	
C2124	ECA1HM100B	E 10UF, 50V	
C2125	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C2138	ECJ2VC1H470J	C 47PF, J, 50V	
C2139	ECJ2VC1H010C	C 1PF, C, 50V	
C2140	ECJ2VC1H010C	C 1PF, C, 50V	
C2141	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C2142	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C2302	ECA1CM471B	E 470UF, 16V	
C2303	ECA1CM101B	E 100UF, 16V	
C2304	ECEA1HKN0R1	E 0.1UF, 50V	
C2305	ECEA1HKN0R1	E 0.1UF, 50V	
C2306	ECA1HM100B	E 10UF, 50V	
C2309	ECJ2VC1H122J	C 1200PF, J, 50V	
C2310	ECJ2VC1H122J	C 1200PF, J, 50V	
C2380	ECA1CM101B	E 100UF, 16V	
C2381	ECA1CM100B	E 10UF, 16V	
C3020	ECJ2VC1H561K	C 560PF, K, 50V	
C3021	ECA1CM471B	E 470UF, 16V	
C3028	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3036	ECJ2VC1H561K	C 560PF, K, 50V	
C3037	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3038	ECJ2VC1H561K	C 560PF, K, 50V	
C3039	ECJ2VC1H561K	C 560PF, K, 50V	
C3040	ECEA1CKA100	E 10UF, 16V	
C3041	ECEA1CKA100	E 10UF, 16V	
C3043	ECA1HM100B	E 10UF, 50V	
C3044	ECEA1CN100U	E 10UF, 16V	
C3045	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3102	ECJ2VC1H561K	C 560PF, K, 50V	
C3103	ECJ2VC1H561K	C 560PF, K, 50V	
C3107	ECEA1CN100U	E 10UF, 16V	
C3108	ECEA1CN100U	E 10UF, 16V	
C3110	ECJ2VC1H561K	C 560PF, K, 50V	
C3136	ECJ2VB1H103J	C 0.01UF, 50V	
C3137	ECJ2VB1H103J	C 0.01UF, 50V	
C3138	ECA1CM100B	E 10UF, 16V	
C3139	ECA1CM100B	E 10UF, 16V	
C3157	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3273	ECA1CM220B	E 220UF, 16V	
C3283	ECA1CM220B	E 220UF, 16V	
C3290	ECJ2FB1E105K	C 1UF, Z, 16V	
C3291	ECJ2FB1E105K	C 1UF, Z, 16V	
C3292	ECA1CM331B	E 330UF, 16V	
C3293	ECJ2YB1H473K	C 0.047UF, K, 50V	
C350	ECA1CM101B	E 100UF, 16V	
C354	ECJ2VC1H330J	C 33PF, J, 50V	
C355	ECJ2VC1H330J	C 33PF, J, 50V	
C356	ECJ2VC1H330J	C 33PF, J, 50V	
C359	ECQM4104KZ	P 0.1UF, K, 400V	
C360	ECQM4153JZ	P 0.015UF, J, 400V	
C368	F1B1H122A131	C 1200UF, 50V	
C370	ECKW3D102KBP	C 1000PF, K, 2KV	
C371	ECEA1CN100U	E 10UF, 16V	
C373	ECA2EM100B	E 10UF, 250V	
C377	ECA1CM101B	E 100UF, 16V	
C402	ECA1HM101B	E 100UF, 50V	
C404	ECQB1103JF	P 0.01UF, J, 100V	
C4043	ECUX1H101JXC	C 100PF, J, 50V	
C406	ECA1HHG221	E 220UF, 50V	
C408	ECQB1274JF	P 0.27UF, J, 100V	
C420	ECJ2VB1H332K	C 3300PF, K, 50V	
C421	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C422	ECEA0JKA221	E 220UF, 6.3V	

Ref. No.	Part No.	Part Name & Description	Remarks
C4805	ECA1CM101B	E 100UF, 16V	
C4806	ECA1CM471B	E 470UF, 16V	
C4891	ECA1CM100B	E 10UF, 16V	
C502	L7Y5P4B222K	C 2200PF, K, 500V	
C503	L7Y5P4B222K	C 2200PF, K, 500V	
C504	ECJ2VB1H681K	C 680PF, K, 50V	
C506	F1A2H1000002	C 10PF, 500V	
C511	ECA1VM101B	E 100UF, 35V	
C513	ECKW3D331JBP	C 330PF, J, 2KV	
C514	ECA1EM102B	E 1000UF, 25V	
C515	F1B2H331A025	C 330PF, 500V	
C516	ECA1EM102B	E 1000UF, 25V	
C517	F1B2H471A025	C 470PF, 500V	
C518	F2A1V102A188	E 1000UF, 35V	
C519	F2A2C330A020	E 33UF, 60V	
C520	F2A0J470A181	E 47UF, 6.3V	
C5506	ECJ2VC1H680J	C 68PF, J, 50V	
C5507	ECJ2VC1H680J	C 68PF, J, 50V	
C5510	ECA1CM101B	E 100UF, 16V	
C5511	ECJ2VC1H680J	C 68PF, J, 50V	
C5512	ECEA1AN470U	E 47UF, 10V	
C5513	ECUX1H101JCK	C 100PF, J, 50V	
C5514	ECJ2VC1H181J	C 180PF, J, 50V	
C552	ECA2EM100B	E 10UF, 250V	
C5520	ECJ2VF1C105Z	C 1UF, Z, 16V	
C553	ECEA2CNR47S	E 0.47UF, 160V	
C5530	ECUX1H104KBX	C 0.1UF, K, 50V	
C5531	ECA1CM100B	E 10UF, 16V	
C5540	ECJ2VB1H222K	C 2200PF, K, 50V	
C5541	ECA1HM100B	E 10UF, 50V	
C5544	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5545	ECJ2VB1H103K	C 0.01UF, K, 50V	
C5548	ECJ2VC1H330J	C 33PF, 50V	
C5549	ECJ2VC1H330J	C 33PF, 50V	
C555	F1B2H471A025	C 470PF, 500V	
C5551	ECJ2VB1H103K	C 0.01UF, K, 50V	
C5552	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5553	ECA1AM331B	E 330UF, 10V	
C5554	ECEA0JKA221	E 220UF, 6.3V	
C5555	ECEA1CKA101	E 100UF, 16V	
C5556	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C5557	ECA1CM100B	E 10UF, 16V	
C5558	ECJ2VC1H680J	C 68PF, J, 50V	
C5560	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5561	ECJ2VB1H103K	C 0.01UF, K, 50V	
C5562	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5564	ECEA0JKA221	E 220UF, 6.3V	
C5565	ECJ2VB1H103K	C 0.01UF, K, 50V	
C5566	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C5567	ECA1HM010B	E 1UF, 50V	
C5568	ECA1HM010B	E 1UF, 50V	
C5570	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5571	ECJ2VC1H150J	C 15PF, J, 50V	
C5572	ECJ2VC1H150J	C 15PF, J, 50V	
C5573	ECA1HM220B	E 22UF, 50V	
C5574	ECA1AM331B	E 330UF, 10V	
C5575	ECJ2VB1H103K	C 0.01UF, K, 50V	
C5576	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5577	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C5578	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C558	ECEA2CNR47S	E 0.47UF, 160V	
C5581	ECEA1CKN220	E 22UF, 16V	
C5586	ECJ2VC1H150J	C 15PF, J, 50V	
C5588	ECJ2VC1H330J	C 33PF, 50V	
C559	ECWH20123JVB	P 0.012UF, J, 2KV	
C5591	ECEA1EKN4R7	E 4.7UF, 25V	
C5595	ECA1CM470B	E 47UF, 16V	
C5596	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C560	ECQM4393JZ	P 0.039UF, J, 400V	
C561	ECWH20222JVY	P 2000PF, J, 2KV	
C562	ERD25T0V	C 0 OHM, J, 2KV	
C564	ECQM4333JZ	P 0.033UF, 400V	
C565	ECQP1223JZ	P 0.022UF, J, 100V	
C568	ECKW3D102JBR	C 1000PF, J, 2KV	

Ref. No.	Part No.	Part Name & Description	Remarks
C570	ECJ2VC1H560J	C 56PF, J, 50V	
C580	ECA1HM220B	E 22UF, 50V	
C581	ECQV1H105JM	P 1UF, J, 50V	
C601	ECEA1CKA101	E 100UF, 16V	
C602	ECUX1H104KBX	C 0.1UF, K, 50V	
C603	ECJ2VC1H152J	C 1500PF, J, 50V	
C604	ECQV1H224JL	P 0.22UF, J, 50V	
C605	ECQV1H224JL	P 0.22UF, J, 50V	
C606	ECJ2VB1H332K	C 3300PF, K, 50V	
C607	ECEA1HKA010	E 1UF, 50V	
C608	ECA1HM100B	E 10UF, 50V	
C609	ECUX1H104KBX	C 0.1UF, K, 50V	
C610	ECJ2VB1H103J	C 0.01UF, 50V	
C611	ECQV1H683JL3	P 0.068UF, J, 50V	
C612	ECJ2VB1H472K	C 4700PF, K, 50V	
C613	ECJ2VB1H472K	C 4700PF, K, 50V	
C614	ECQV1H104JL	P 0.1UF, J, 50V	
C615	ECQV1H224JL	P 0.22UF, J, 50V	
C618	F1B1H681A130	C 680PF, 50V	
C619	ECQV1H104JL	P 0.1UF, J, 50V	
C620	ECJ2VC1H470J	C 47PF, J, 50V	
C621	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C622	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C623	ECJ2VC1H470J	C 47PF, J, 50V	
C625	ECEA0JN221U	E 220UF, 6.3V	
C628	ECJ2YB1H473K	C 0.047UF, K, 50V	
C631	ECJ2VB1H222K	C 2200PF, K, 50V	
C632	ECJ2VB1H392K	C 3900PF, K, 50V	
C633	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C636	ECA1AM471B	E 470UF, 10V	
C640	ECA1CM100B	E 10UF, 16V	
C641	ECJ2VC1H100C	C 10PF, C, 50V	
C645	ECJ2VC1H680J	C 68PF, J, 50V	
C670	ECA1CM100B	E 10UF, 16V	
C680	ECJ2YB1H473K	C 0.047UF, K, 50V	
C685	ECJ2VC1H101K	C 100PF, 50V	
C686	ECJ2YB1H473K	C 0.047UF, K, 50V	
C687	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C688	ECJ2VF1H102Z	C 1000PF, Z, 50V	
C689	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C701	ECA1HHG101	E 100UF, 50V	
C702	ECQV1H684JM	P 0.68UF, J, 50V	
C703	ECEA1HGE100	E 10UF, 50V	
C704	ECQB1H223JF	P 0.022UF, J, 50V	
C705	ECQB1H102KF	P 1000PF, K, 50V	
C706	ECQV1H105JM	P 1UF, J, 50V	
C707	ECQV1H105JM	P 1UF, J, 50V	
C708	F0C2E754A040	P 0.75UF, 250V	
C710	F0C2E564A053	P 0.56UF, 250V	
C711	ECQE2824KF	P 0.82UF, K, 250V	
C802	ECQU2A224BN9	P 0.22UF, 250V	△
C806	ECKWAE472ZED	C 4700PF, Z, 500V	△
C807	ECKWAE472ZED	C 4700PF, Z, 500V	△
C808	ECKWAE472ZED	C 4700PF, Z, 500V	△
C809	ECKWAE472ZED	C 4700PF, Z, 500V	△
C810	EETHC2G391K	E 390UF, 400V	△
C811	ECQM4473JZ	P 0.047UF, J, 400V	△
C813	ECKW3D681KBP	C 680PF, K, 2KV	
C816	ECA1HM220B	E 22UF, 50V	
C817	ECKW3D221JBR	C 220PF, J, 2KV	
C818	ECKW3D331JBP	C 330PF, J, 2KV	
C819	ECEA1HKA010	E 1UF, 50V	
C821	ECKW3D331JBR	C 330PF, J, 2KV	
C822	ECKW3D331JBR	C 330PF, J, 2KV	
C825	ECQB1H471JF	P 470PF, J, 50V	
C826	F0A1H103A039	C 0.01UF, 50V	
C827	ECQB1H683JF	P 0.068UF, J, 50V	
C830	ECQB1H182JF	P 1800PF, J, 50V	
C833	ECKCNA102MB7	C 1000PF, M,	△
C835	ECKCNA472ME7	C 4700PF, M,	△
C837	ECKCNA152ME7	C 1500PF, M,	△
C838	ECQU2A224BN9	P 0.22UF, 250V	△
C839	ECQU2A224BN9	P 0.22UF, 250V	△
C840	ECKCNA471MB7	C 470PF, M,	△

Ref. No.	Part No.	Part Name & Description	Remarks
C841	ECKCNA471MB7	C 470PF, M,	△
C842	ECKCNA102MB7	C 1000PF, M,	△
C850	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C853	F1B2H561A025	C 560PF, 500V	△
C855	F1B2H331A025	C 330PF, 500V	△
C857	ECA1VM101B	E 100UF, 35V	
C858	ECA1CM101B	E 100UF, 16V	
C859	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C862	ECA1CHG332E	E 3300UF, 16V	
C864	F2A1C222A117	E 2200UF, 16V	
C867	EC0S2CA271BB	E 270UF, 160V	
C873	F2A1C101A244	E 100UF, 16V	
C874	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C876	ECA1CM101B	E 100UF, 16V	
C877	F2A1C471A245	E 470UF, 16V	
C880	F2A1C222A117	E 2200UF, 16V	
C881	ECA1CM101B	E 100UF, 16V	
C882	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C883	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C884	ECA1AM471B	E 470UF, 10V	
C890	ECQB1H223JF	P 0.022UF, J, 50V	
C892	ECQB1H473JF	P 0.047UF, J, 50V	
C904	ECJ2VB1H103J	C 0.01UF, 50V	
C952	ECA1HMH100	E 10UF, 50V	
C953	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C958	ECA2CM470B	E 47UF, 160V	
C959	F1B2H1030013	C 0.01UF, 500V	
C960	F1A2H151A035	C 150UF, 500V	
C961	F2A2A1000016	C 10UF, 100V	
C962	F1B2H1030013	C 0.01UF, 500V	
C963	F1A1H151A054	C 150UF, 500V	
C964	ECA1CMH221	E 220UF, 16V	
C966	ECA1CMH221	E 220UF, 16V	
C967	ECA1CM221B	E 220UF, 16V	
C968	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C969	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C971	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
	DIODES		
D002	MTZJ18B	ZENER DIODE	
D003	MTZJ16A	ZENER DIODE	
D006	MTZJ5.1C	ZENER DIODE	
D011	MA152KTX	DIODE	
D1002	MTZJ7.5C	ZENER DIODE	
D1010	B3AGA0000089	DIODE	
D1120	MA152KTX	DIODE	
D1130	MTZJ5.6C	ZENER DIODE	
D1131	MTZJ5.6C	ZENER DIODE	
D1132	MTZJ5.6A	ZENER DIODE	
D1140	MTZJ5.6B	ZENER DIODE	
D120	MA858	DIODE	
D2380	MA152KTX	DIODE	
D2381	MA152KTX	DIODE	
D2382	MA152KTX	DIODE	
D354	MA152KTX	DIODE	
D355	MA152KTX	DIODE	
D356	MA152KTX	DIODE	
D360	ERA22-04	DIODE	
D361	ERA22-04	DIODE	
D362	ERA22-04	DIODE	
D363	MA152KTX	DIODE	
D365	MTZJ10C	ZENER DIODE	
D375	MA152KTX	DIODE	
D402	BOHAMM000008	DIODE	
D403	BOACCK000005	DIODE	
D404	BOACCK000005	DIODE	
D407	MTZJ20B	ZENER DIODE	
D511	MA4108J	DIODE	
D512	MA171	DIODE	
D513	BOHAJP000015	DIODE	
D515	BOHAJP000015	DIODE	
D516	BOHAMP000054	DIODE	
D520	MA152KTX	DIODE	
D551	MA3047HTX	DIODE	
D552	BOHAJP000015	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D555	MA152KTX	DIODE	
D556	BOHAMV000027	DIODE	
D557	BOHAMR000053	DIODE	
D558	MA185	DIODE	
D580	MTZJ33B	ZENER DIODE	
D581	MA152KTX	DIODE	
D582	MA152KTX	DIODE	
D583	MA3X152E0L	DIODE	
D584	MAZ30560HL	DIODE	
D586	BOACCK000005	DIODE	
D630	MAZ30560HL	DIODE	
D701	MA165	DIODE	
D702	MTZJ6.8B	ZENER DIODE	
D703	MAZ30560HL	DIODE	
D704	MA165	DIODE	
D705	MTZJ10D	ZENER DIODE	
D706	MA29W-A	DIODE	
D708	MA165	DIODE	
D803	D4SB80	DIODE	
D810	BOEAKT000018	DIODE	
D817	AG01Z	DIODE	
D820	MAZ20820A0LS	DIODE	
D821	MAZ20750A0LS	DIODE	
D823	AG01Z	DIODE	
D824	AG01Z	DIODE	
D825	BOBA6R100003	DIODE	
D830	AG01Z	DIODE	
D831	BOBA02400029	ZENER DIODE	
D835	ERZV10D621CS	VARISTOR	△
D836	TAP4GA0009	POSISTOR	△
D837	TAP4GA0009	POSISTOR	△
D840	MA152KTX	DIODE	
D841	MTZJ5.1C	ZENER DIODE	
D853	FMLG12SLF116	DIODE	
D854	FMGG2CSLF665	DIODE	
D855	FMLG12S	DIODE	
D856	BOBA8R700009	ZENER DIODE	
D860	PC123F2	DIODE	
D862	MTZJ4.7B	ZENER DIODE	
D863	AG01Z	DIODE	
D865	MTZJ3.6A	ZENER DIODE	
D870	AG01Z	DIODE	
D871	AG01Z	DIODE	
D872	MTZJ5.1C	ZENER DIODE	
D880	MTZJ10D	ZENER DIODE	
	INTEDGRATED CIRCUITS		
IC1001	B3RAC0000010	REMOCON RECEIVER	
IC1103	TVR4GAS288	EEPROM IC	
IC1201	PQ1R33	LINEAR IC	
IC2101	CIAB00001987	IC	
IC2301	AN17820B	IC	
IC3040	NJM2535M	IC	
IC351	TDA6108JF/N1	IC	
IC420	CI1ZBZ0000497	IC	
IC451	TDA8177	IC	
IC4803	AN15530B	IC	
IC5530	C0JAAZ002376	IC, LOGIC	
IC5550	MN82362	IC	
IC601	TDA9592N64CC	IC	
IC701	TEA2031A	IC	
IC801	CSHABZZ00120	IC, POWER SUPPLY	△
IC802	COEAS0000026	IC	
IC851	CODAAHF00005	IC, POWER SUPPLY	△
IC852	COCACHG00001	IC, POWER SUPPLY	△
IC881	AN7805	LINEAR IC	
	COILS		
L001	GOC100K00008	COIL	
L002	EXC3BB221H	CHIP BEAD CORE	
L1001	TALV35VB331K	PEAKING COIL	
L1051	EXCELSA35T	BEAD CORE	
L1110	EXCELSA35T	BEAD CORE	
L120	TLTACTR56K	PEAKING COIL	
L125	TALV35VB8R2K	PEAKING COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L170	G0C100K00008	COIL	
L181	G0C100K00008	COIL	
L182	TALV35VB6R8K	PEAKING COIL	
L183	TALV35VB5R6K	PEAKING COIL	
L184	TALV35VB6R8K	PEAKING COIL	
L2104	TLTACT330J	PEAKING COIL	
L2134	TLTACT270J	PEAKING COIL 27U	
L2136	EXCELDR25V	CORE	
L2137	J0JKB0000034	EMI FILTER	
L2141	EXC3BB221H	CHIP BEAD CORE	
L2150	EXC3BB221H	CHIP BEAD CORE	
L2151	EXC3BB221H	CHIP BEAD CORE	
L3016	J0JKA0000024	EMI FILTER	
L3037	J0JKA0000024	EMI FILTER	
L3041	J0JKA0000024	EMI FILTER	
L3042	J0JKA0000024	EMI FILTER	
L3106	EXCELSA35T	BEAD CORE	
L3261	TALV35VB8R2K	PEAKING COIL	
L352	EXCELSA24T	BEAD CORE	
L358	J0JKB0000038	COIL	
L359	J0JKB0000038	COIL	
L360	J0JKB0000038	COIL	
L502	EXCELSA35T	BEAD CORE	
L510	EXCELSA35T	BEAD CORE	
L511	EXCELSA35T	BEAD CORE	
L516	EXCELSA35T	BEAD CORE	
L550	J0JKB0000038	COIL	
L5510	TALV35VB100J	PEAKING COIL	
L5538	EXCELSA35T	BEAD CORE	
L5539	EXCELSA35T	BEAD CORE	
L5550	TLTACT150J	PEAKING COIL	
L5551	G0C101J00001	PEAKING COIL	
L5552	EXCELSA35T	BEAD CORE	
L5554	EXCELSA35T	BEAD CORE	
L5555	TALV35VB100J	PEAKING COIL	
L5556	TLTACT150J	PEAKING COIL	
L5558	TSK1032	BEAD CORE	
L5560	EXCELSA35T	BEAD CORE	
L5570	TLTACT270J	PEAKING COIL 27U	
L5581	TLTACT470J	PEAKING COIL	
L5582	EXCELSA35T	BEAD CORE	
L603	J0JKA0000024	EMI FILTER	
L605	EXCELSA35T	BEAD CORE	
L606	EXCELSA35T	BEAD CORE	
L607	J0JKB0000034	EMI FILTER	
L620	TSK1045	BEAD CORE	
L702	G0A682AA0006	PEAKING COIL	
L703	G0A391G00001	COIL	
L704	G0A332C00003	CHOKE COIL	
L705	G0A102F00002	COIL	
L706	ELH5L7121	LINEARITY COIL	
L707	G0A332BA0007	CHOKE COIL	
L801	TLP4GD016P	LINE FILTER	△
L820	J0JKA0000025	BEAD CORE	
L831	TLP4GD016P	LINE FILTER	△
L852	J0JKA0000023	BEAD CORE	
L853	J0JKA0000025	BEAD CORE	
L862	G0A6R8HA0011	CHOKE COIL	
L863	EXCELDR35C	BEAD CORE	
L871	TLTACT1R5K	PEAKING COIL	
L872	TLTACT1R5K	PEAKING COIL	
L873	J0JKA0000024	EMI FILTER	
L951	EXCELSA24T	BEAD CORE	
L953	EXCELSA24T	BEAD CORE	
L954	EXCELSA24T	BEAD CORE	
L955	EXCELSA24T	BEAD CORE	
DL3290	ELB4B090	COIL	
DL3291	ELB4B090	COIL	
	TRANSISTORS		
Q001	B1ABCE000005	TRANSISTOR	
Q101	B1ABCE000005	TRANSISTOR	
Q1011	B1ABCE000005	TRANSISTOR	
Q1012	B1ABCE000005	TRANSISTOR	
Q102	2SC2480TX	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q103	2SD2114KT	TRANSISTOR	
Q105	B1ABCE000005	TRANSISTOR	
Q1110	2SB709ATX	TRANSISTOR	
Q1111	B1ABCE000005	TRANSISTOR	
Q170	B1ABCE000005	TRANSISTOR	
Q180	2SB709ATX	TRANSISTOR	
Q2110	2SB709ATX	TRANSISTOR	
Q2111	2SB709ATX	TRANSISTOR	
Q2380	B1ABCE000005	TRANSISTOR	
Q2381	2SB709ATX	TRANSISTOR	
Q3030	B1ABCE000005	TRANSISTOR	
Q3031	B1ABCE000005	TRANSISTOR	
Q3032	B1ABCE000005	TRANSISTOR	
Q3033	B1ABCE000005	TRANSISTOR	
Q3270	B1ABCE000005	TRANSISTOR	
Q3271	B1ABCE000005	TRANSISTOR	
Q3280	B1ABCE000005	TRANSISTOR	
Q3281	B1ABCE000005	TRANSISTOR	
Q3290	B1ABCE000005	TRANSISTOR	
Q3291	B1ABCE000005	TRANSISTOR	
Q369	2SB709ATX	TRANSISTOR	
Q390	B1ABCE000005	TRANSISTOR	
Q391	B1ABCE000005	TRANSISTOR	
Q392	B1ABCE000005	TRANSISTOR	
Q400	B1ABCE000005	TRANSISTOR	
Q420	B1ABCE000005	TRANSISTOR	
Q4872	B1ADDF000003	TRANSISTOR	
Q501	2SC4212H	TRANSISTOR	
Q520	2SB792ATX	TRANSISTOR	
Q5501	B1ABCE000005	TRANSISTOR	
Q5502	B1ABCE000005	TRANSISTOR	
Q5503	2SB709ATX	TRANSISTOR	
Q5504	B1ABCE000005	TRANSISTOR	
Q5505	2SB709ATX	TRANSISTOR	
Q551	2SC5902000LK	TRANSISTOR	
Q5520	2SB709ATX	TRANSISTOR	
Q5521	B1ABCE000005	TRANSISTOR	
Q5522	B1ABCE000005	TRANSISTOR	
Q5530	B1ABCE000005	TRANSISTOR	
Q5540	B1ABCE000005	TRANSISTOR	
Q5541	B1ABCE000005	TRANSISTOR	
Q5570	2SB709ATX	TRANSISTOR	
Q5581	B1ABCE000005	TRANSISTOR	
Q5583	B1ABCE000005	TRANSISTOR	
Q5584	B1ABCE000005	TRANSISTOR	
Q5585	2SB709ATX	TRANSISTOR	
Q580	B1ABCE000005	TRANSISTOR	
Q581	2SB709ATX	TRANSISTOR	
Q601	2SB709ATX	TRANSISTOR	
Q602	B1ABCE000005	TRANSISTOR	
Q640	2SB709ATX	TRANSISTOR	
Q641	B1ABCE000005	TRANSISTOR	
Q680	B1ABCE000005	TRANSISTOR	
Q701	2SB709ATX	TRANSISTOR	
Q840	B1ABCE000005	TRANSISTOR	
Q850	B1BCCM000002	TRANSISTOR	
Q852	B1ABCE000005	TRANSISTOR	
Q857	2SC54190RA	TRANSISTOR	
Q870	B1ABCE000005	TRANSISTOR	
Q871	B1ABCE000005	TRANSISTOR	
Q880	B1ABCE000005	TRANSISTOR	
Q881	B1ABCE000005	TRANSISTOR	
Q901	B1ABCE000005	TRANSISTOR	
Q902	B1ABCE000005	TRANSISTOR	
Q951	B1ABCE000005	TRANSISTOR	
Q952	B1ABCE000005	TRANSISTOR	
Q953	2SC1318	TRANSISTOR	
Q954	2SB1030A	TRANSISTOR	
Q955	2SA21180PSLB	TRANSISTOR	
Q956	2SC59350PSLB	TRANSISTOR	
Q957	2SB709ATX	TRANSISTOR	
Q958	B1ABCE000005	TRANSISTOR	
Q961	B1ABCE000005	TRANSISTOR	
Q962	B1ABCE000005	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
	RESISTORS		
R003	ERJ6GEYJ100	M 100OHM,J,1/10W	
R004	ERG3FJ183H	M 18KOHM,J, 3W	
R006	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R007	ERJ6GEYJ302	M 3KOHM,J,1/10W	
R008	ERJ6GEYJ681	M 680OHM,J,1/10W	
R011	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R012	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R021	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R022	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R1010	ERJ6GEYJ271	M 270OHM,J,1/10W	
R1011	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R1012	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R1013	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1104	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1105	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1106	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1108	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1109	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1111	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1112	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1113	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R1114	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R1115	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1116	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1117	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1118	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1120	ERJ6GEYJ432	M 4.3KOHM,J,1/10W	
R1122	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1123	ERJ6GEYJ681	M 680OHM,J,1/10W	
R1124	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
R1125	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1130	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1131	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1132	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1133	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1140	ERJ6ENF1002	M 10KOHM, 1/10W	
R1141	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1142	ERJ6GEYJ100	M 100OHM,J,1/10W	
R116	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R117	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R118	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R119	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R120	ERJ6GEYJ680	M 680OHM,J,1/10W	
R121	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R122	ERJ6GEYJ470	M 470OHM,J,1/10W	
R123	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R124	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R126	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1280	ERJ6ENF1871	M1.87KOHM, 1/10W	
R1281	ERJ6ENF1651	M1.65KOHM, 1/10W	
R1282	ERJ6ENF2151	M2.15KOHM, 1/10W	
R1283	ERJ6ENF3091	M3.09KOHM, 1/10W	
R1284	ERJ6ENF4421	M4.42KOHM, 1/10W	
R1285	ERJ6ENF7501	M 7.5KOHM, 1/10W	
R136	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R137	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R138	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R139	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R145	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R150	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R151	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R170	ERJ6GEYJ331	M 330OHM,J,1/10W	
R171	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R172	ERJ6GEYJ331	M 330OHM,J,1/10W	
R182	ERJ6GEYJ221	M 220OHM,J,1/10W	
R185	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R190	ERJ6GEYJ391	M 390OHM,J,1/10W	
R2101	ERJ6GEYJ101	M 100OHM,J,1/10W	
R2102	ERJ6GEYJ101	M 100OHM,J,1/10W	
R2104	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R2109	ERJ6GEYJ101	M 100OHM,J,1/10W	
R2112	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R2113	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R2120	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R2140	ERJ6GEYJ101	M 100OHM,J,1/10W	
R2302	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R2303	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R2307	ERJ6GEYJ432	M 4.3KOHM,J,1/10W	
R2308	ERJ6GEYJ432	M 4.3KOHM,J,1/10W	
R2380	ERJ6GEYJ151	M 150OHM,J,1/10W	
R2381	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R2382	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R2383	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R2384	ERJ6GEYJ100	M 10OHM,J,1/10W	
R3010	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3012	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3013	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3014	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3015	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3022	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3030	ERJ6GEYJ181	M 180OHM,J,1/10W	
R3032	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3033	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3035	ERJ6GEYJ750	M 750OHM, 1/10W	
R3036	ERJ6GEYJ330	M 330OHM,J,1/10W	
R3037	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3038	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3039	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3040	ERJ6GEYJ470	M 470OHM,J,1/10W	
R3041	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3042	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3043	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3044	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3048	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3049	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3105	ERJ6GEYJ471	M 470OHM,J,1/10W	
R3106	ERJ6GEYJ471	M 470OHM,J,1/10W	
R3110	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3111	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3132	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3133	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3141	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3142	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3144	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3145	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3259	ERJ6GEYJ750	M 750OHM, 1/10W	
R3272	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R3275	ERJ6ENF4701	M 4.7KOHM, 1/10W	
R3276	ERJ6ENF8200	M 8200OHM, 1/10W	
R3277	ERJ6GEYJ823	M 82KOHM,J,1/10W	
R3278	ERJ6GEYJ183	M 18KOHM,J,1/10W	
R3279	ERJ6ENF75R0	M 750OHM, 1/10W	
R3282	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R3285	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R3286	ERJ6ENF1201	M 1.2KOHM, 1/10W	
R3287	ERJ6GEYJ823	M 82KOHM,J,1/10W	
R3288	ERJ6GEYJ183	M 18KOHM,J,1/10W	
R3289	ERJ6ENF75R0	M 750OHM, 1/10W	
R3290	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R3291	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R3292	ERJ6ENF1001	M 1KOHM, 1/10W	
R3293	ERJ6ENF1001	M 1KOHM, 1/10W	
R3294	ERJ6ENF1001	M 1KOHM, 1/10W	
R3295	ERJ6ENF1001	M 1KOHM, 1/10W	
R351	ERDS2T0T	C 0OHM, 1/4W	
R352	ERDS2T0T	C 0OHM, 1/4W	
R353	ERDS2T0T	C 0OHM, 1/4W	
R354	ERJ6ENF7500	M 7500OHM, 1/10W	
R355	ERJ6ENF7500	M 7500OHM, 1/10W	
R356	ERJ6ENF7500	M 7500OHM, 1/10W	
R363	ERC12GK222	S 2.2KOHM,K, 1/2W	
R364	ERC12GK222	S 2.2KOHM,K, 1/2W	
R365	ERC12GK222	S 2.2KOHM,K, 1/2W	
R369	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R374	ERQ12AJ181E	F 180OHM,J, 1/2W	
R390	ERJ6GEYJ101	M 100OHM,J,1/10W	
R391	ERJ6GEYJ101	M 100OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R392	ERJ6GEYJ101	M 100OHM,J,1/10W	
R393	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R394	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R395	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R401	ERDS2TJ104	C 100KOHM,J, 1/4W	
R402	ERJ6GEYJ470	M 470OHM,J,1/10W	
R403	ER0S2CHF2491	M 24.9KOHM,J,1/4W	
R404	ERDS2TJ681	C 680OHM,J, 1/4W	
R405	ER0S2CHF2701	C 10HM,J, 1/2W	
R406	ERDS1FJ1R0	C 10HM,J, 1/2W	
R407	ERG2FJ151H	M 150OHM,J,2W	
R409	ERJ6GEYJ512	M 5.1KOHM,J,1/10W	
R410	ERJ6GEYJ202	M 2KOHM,J,1/10W	
R4101	ERJ6GEYJ681	M 680OHM,J,1/10W	
R4108	ERJ6GEYJ681	M 680OHM,J,1/10W	
R4112	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
R414	ERJ6GEYJ432	M 4.3KOHM,J,1/10W	
R415	ER0S2CHF6810	M 6.81KOHM,F, 1/4W	
R416	ERX12SJR47V	M 0.470HM,J, 1/2W	
R417	ERX12SJR47V	M 0.470HM,J, 1/2W	
R420	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R421	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R422	ERJ6ENF7503	M 7.5KOHM, 1/10W	
R423	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R424	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R426	ERJ6GEYJ750	M 75OHM, 1/10W	
R427	ERJ6GEYJ750	M 75OHM, 1/10W	
R430	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R4828	ERJ6GEYJ101	M 100OHM,J,1/10W	
R4876	ERG2FJ120H	M 120HM,J,1/10W	
R4877	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R4879	ERJ6GEYJ243	M 24KOHM,J,1/10W	
R4890	ERJ6GEYJ821	M 820OHM,J,1/10W	
R4892	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R4893	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
R4894	ERJ6GEYJ243	M 24KOHM,J,1/10W	
R4896	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
R4897	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
R502	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	
R503	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
R504	ERG2SJ472E	M 4.7KOHM,J, 2W	
R507	ERJ6GEYJ101	M 100OHM,J,1/10W	
R508	ERG3FJ681H	M 680OHM,J, 3W	
R509	ERG3FJ821H	M 820OHM,J, 3W	
R510	ERJ6GEYJ471	M 470OHM,J,1/10W	
R511	ERJ6ENF1182	M 11.8KOHM, 1/10W	
R512	ERJ6ENF1052	F 10.5KOHM,J, 1/4W	
R513	ERQ14AJ100E	F 10OHM,J, 1/4W	
R516	ERQ1RJW1R0E	F 10HM,J, 1W	
R519	ERX2SJ6R2H	M 6.2OHM,J, 2W	
R520	ERX2SJ6R2E	M 6.2OHM,J, 1W	
R521	ERX2SJ6R2E	M 6.2OHM,J, 1W	
R522	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R523	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R524	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R525	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R530	ERQ1RJW1R0E	F 10HM,J, 1W	
R5501	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R5502	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5503	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R5504	ERJ6GEYJ301	M 300OHM,J,1/10W	
R5505	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	
R5506	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R5510	ERJ6GEYJ390	M 39OHM,J,1/10W	
R5511	ERJ6GEYJ681	M 680OHM,J,1/10W	
R5512	ERJ6GEYJ101	M 100OHM,J,1/10W	
R5513	ERJ6GEYJ121	M 120OHM,J,1/10W	
R5514	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R5515	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R5516	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R5517	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5518	ERJ6GEYJ121	M 120OHM,J,1/10W	
R552	ERDS2TJ393	C 39KOHM,J, 1/4W	
R5520	ERJ6GEYJ221	M 220OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R5521	ERJ6GEYJ331	M 330OHM,J,1/10W	
R5522	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R5523	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R5524	ERJ6GEYJ331	M 330OHM,J,1/10W	
R5525	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R5526	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R553	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R5530	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5531	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R5532	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R5533	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R5540	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5541	ERJ6GEYJ202	M 2KOHM,J,1/10W	
R5542	ERJ6GEYJ101	M 100OHM,J,1/10W	
R5545	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R5546	ERJ6GEYJ331	M 330OHM,J,1/10W	
R5547	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R5548	ERJ6GEYJ331	M 330OHM,J,1/10W	
R555	ERQ14AJ2R0P	F 2.0OHM, J,1/4W	
R5551	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R5552	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5553	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R5554	ERJ6GEYJ202	M 2KOHM,J,1/10W	
R5555	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5556	ERJ6GEYJ151	M 150OHM,J,1/10W	
R556	ER050CKF5603	M 560KOHM,F, 1/2W	
R5560	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R5561	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R5565	ERJ6GEYJ221	M 220OHM,J,1/10W	
R5566	ERJ6GEYJ821	M 820OHM,J,1/10W	
R5569	ERJ6GEYJ241	M 240OHM,J,1/10W	
R557	ER050CHF6492	M 64KOHM,F, 1/2W	
R5570	ERJ6GEYJ101	M 100OHM,J,1/10W	
R5571	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5572	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R5573	ERD25VJ392	C 3.9KOHM,J, 1/4W	
R558	ERDS2TJ513	C 51KOHM,J, 1/4W	
R5581	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R5583	ERJ6GEYJ123	M 12KOHM,J,1/10W	
R5585	ERJ6GEYJ391	M 390OHM,J,1/10W	
R5587	ERJ6ENF1620	M 162OHM, 1/10W	
R5589	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R559	ERQ1CJPR39S	F 0.470HM,J, 1W	
R5591	ERJ6ENF1001	M 1KOHM, 1/10W	
R5593	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5594	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R5595	ERJ6GEYJ561	M 560OHM,J,1/10W	
R563	ERJ6ENF1622	F 16.2KOHM,J, 1W	
R580	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R581	ERJ6GEYJ183	M 18KOHM,J,1/10W	
R582	ERJ6GEYJ154	M 150KOHM,J,1/10W	
R584	ERJ6GEYJ563	M 56KOHM,J,1/10W	
R585	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R586	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R587	ERJ6GEYJ823	M 82KOHM,J,1/10W	
R588	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R589	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R590	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R591	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R592	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R593	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R594	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R601	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R603	ERJ6ENF3902	M 39KOHM, 1/10W	
R604	ERJ6GEYJ101	M 100OHM,J,1/10W	
R605	ERJ6GEYJ101	M 100OHM,J,1/10W	
R606	ERJ6GEYJ101	M 100OHM,J,1/10W	
R607	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R608	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R609	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R612	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R614	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R617	ERJ6GEYJ391	M 390OHM,J,1/10W	
R619	ERJ6GEYJ121	M 120OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R620	ERJ6GEYJ101	M 100OHM,J,1/10W	
R623	ERJ6GEYJ331	M 330OHM,J,1/10W	
R636	ERJ6GEYJ561	M 560OHM,J,1/10W	
R637	ERJ6GEYJ561	M 560OHM,J,1/10W	
R640	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	
R641	ERJ6GEYJ121	M 120OHM,J,1/10W	
R642	ERJ6GEYJ390	M 390OHM,J,1/10W	
R643	ERJ6GEYJ681	M 680OHM,J,1/10W	
R644	ERJ6GEYJ101	M 100OHM,J,1/10W	
R645	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R646	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R681	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R683	ERJ6GEYJ331	M 330OHM,J,1/10W	
R686	ERJ6GEYJ470	M 470HM,J,1/10W	
R687	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R688	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R701	ERQ12HJ330P	F 330HM,J, 1/2W	
R703	ERG2SJ821E	M 820OHM,J, 2W	
R704	ERJ6GEYJ563	M 56KOHM,J,1/10W	
R705	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R706	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R707	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
R708	ERJ6GEYJ393	M 39KOHM,J,1/10W	
R709	ERJ6GEYJ393	M 39KOHM,J,1/10W	
R710	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R711	ERG1SJ101E	M 100OHM,J, 1W	
R712	D0AE622JA046	C 6.2KOHM,J, 1/4W	
R713	ERQ2CJP150S	F 150HM,J, 2W	
R714	ERJ6GEYJ101	M 100OHM,J,1/10W	
R715	ERJ6GEYJ473	M 47KOHM,J, 2W	
R716	ERQ2CJP102S	F 1KOHM,J, 2W	
R717	ERQ2CJP101S	F 100OHM,J, 2W	
R718	ERG3FJ471H	M 470OHM,J, 3W	
R721	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R801	TAR26FJ2R7Z	W 2.7OHM, 15W	△
R810	ERG2FJ470	M 470HM,J, 2W	
R811	ERG2FJ104H	M 100KOHM,J, 2W	
R817	ERDS1TJ100	C 100HM,J, 1/2W	
R818	ERG2FJ683H	M 68KOHM,J, 2W	
R820	ERX12SZJR18E	M 0.18OHM,J, 1/2W	
R821	ERX12SJR22E	M 0.22OHM,J, 1/2W	
R824	ERDS2TJ102	C 1KOHM,J, 1/4W	
R825	ERDS2TJ102	C 1KOHM,J, 1/4W	
R830	D0AE131JA046	C 130OHM,J, 1/4W	
R831	D0AE912JA046	C 9.1KOHM,J, 1/4W	
R832	ERDS2TJ473	C 47KOHM,J, 1/4W	
R840	ERD75TAJ825	C 8.2MOHM,J, 3/4W	
R841	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R842	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R850	ERG3FJ470H	M 470HM,J, 3W	
R852	ERDS2TJ272	C 2.7KOHM,J, 1/4W	
R854	TSF19402	FUSE	△
R855	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R858	ERX2FJ8R2H	M 8.2OHM,J, 2W	
R861	ERDS1TJ221	C 220OHM,J, 1/2W	
R863	D0D53R3J0001	W 3.3KOHM,J,5W	
R864	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R866	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R867	ERDS2TJ102	C 1KOHM,J, 1/4W	
R868	ERDS1TJ471	C 470OHM,J, 1/2W	
R871	ERDS1TJ103	C 10KOHM,J, 1/2W	
R872	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R873	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R875	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R880	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R881	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R882	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R885	ERQ14AJ2R2P	F 2.2OHM,J, 1/4W	△
R901	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R902	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R903	ERJ6GEYJ563	M 56KOHM,J,1/10W	
R904	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R951	ERJ6GEYJ821	M 820OHM,J,1/10W	
R952	ERJ6GEYJ223	M 22KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R953	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R954	ERJ6GEYJ561	M 560OHM,J,1/10W	
R956	ERJ6GEYJ510	M 510HM,J,1/10W	
R958	ERJ6GEYJ391	M 390OHM,J,1/10W	
R959	ERJ6GEYJ101	M 100OHM,J,1/10W	
R960	ERQ14AJ100E	F 100HM,J, 1/4W	
R961	ERQ1CJP331S	F 330OHM,J, 1W	
R962	ERDS2TJ330	C 330HM,J, 1/4W	
R963	ERDS2TJ330	C 330HM,J, 1/4W	
R964	ERQ14AJ471E	F 470OHM,J, 1/4W	
R965	ERDS2TJ223	C 22KOHM,J, 1/4W	
R966	ERG1SJ471E	M 470OHM,J, 1W	
R967	ERDS2TJ223	C 22KOHM,J, 1/4W	
R968	ERDS2TJ471	C 470OHM,J, 1/4W	
R969	ERDS2TJ390	C 390HM,J, 1/4W	
R970	ERDS2TJ2R7	C 2.7OHM,J, 1/4W	
R971	ERDS2TJ2R7	C 2.7OHM,J, 1/4W	
R972	ERDS2TJ390	C 390HM,J, 1/4W	
R973	ERDS2TJ101	C 100OHM,J, 1/4W	
R974	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R975	ERJ6GEYJ101	M 100OHM,J,1/10W	
R976	ERJ6GEYJ101	M 100OHM,J,1/10W	
R977	ERJ6GEYJ561	M 560OHM,J,1/10W	
R978	ERJ6GEYJ101	M 100OHM,J,1/10W	
R987	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R988	ERJ6GEYJ331	M 330OHM,J,1/10W	
R989	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R990	ERJ6GEYJ751	M 750OHM,J,1/10W	
R993	ERJ6GEYJ221	M 220OHM,J,1/10W	
	TRANSFORMERS		
T501	ZTFN34004A	FLYBACK TRANS	△
T553	ETH19Y210AZ	H DRIVE TRANS	△
T801	G4D3Z0000003	SWITCHING TRANS	△
	OTHERS		
A10	K1KB06A00053	CONNECTOR	
A100	K1KB08A00054	8P CONNECTOR	
A12	TJSF29204	CONNECTOR	
A13	K1KB08A00054	8P CONNECTOR	
A15	TJS3A9660	CONNECTOR	
A16	TJS3A9890	9P CONNECTOR	
A17	TJS3A9650	4P CONNECTOR	
A18	TJS3A9670	6P CONNECTOR	
A22	TJS3A9650	4P CONNECTOR	
A3	TJS3A9650	4P CONNECTOR	
A44	TJS4G8090	20P CONNECTOR	
A47	TJS118590	2P CONNECTOR	
A5	TJS3A9670	6P CONNECTOR	
A8	TJS3A9880	8P CONNECTOR	
EW10	K1KA06B00090	CONNECTOR	
EW13	K1KA08B00121	CONNECTOR	
F840	XBA2C50TR0	FUSE	△
L5	TJS3A9670	6P CONNECTOR	
L8	TJS3A9880	8P CONNECTOR	
L10	K1ZZ00001205	CONNECTOR	
L11A	TJSF41601	CONNECTOR	
L12	TJS118590	2P CONNECTOR	
RL801	K6B1CDA00027	RELAY	△
RT1	TJS3A9640	3P CONNECTOR	
S1280	EVQ11G05R	SWITCH	
S1281	EVQ11G05R	SWITCH	
S1282	EVQ11G05R	SWITCH	
S1283	EVQ11G05R	SWITCH	
S1284	EVQ11G05R	SWITCH	
S1285	EVQ11G05R	SWITCH	
S840	ESB92DA1B	SWITCH	△
JA1	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA1	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA10	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA10	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA11	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA12	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA14	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA15	ERJ6GEYJ0R00	M 0OHM,J,1/10W	
JA16	ERJ6GEYJ0R00	M 0OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
JA16	ERJ6GEY0R00	M 00HM,J,1/10W	
JA17	ERJ6GEY0R00	M 00HM,J,1/10W	
JA19	ERJ6GEY0R00	M 00HM,J,1/10W	
JA2	ERJ6GEY0R00	M 00HM,J,1/10W	
JA21	ERJ6GEY0R00	M 00HM,J,1/10W	
JA26	ERJ6GEY0R00	M 00HM,J,1/10W	
JA28	ERJ6GEY0R00	M 00HM,J,1/10W	
JA3	ERJ6GEY0R00	M 00HM,J,1/10W	
JA3	ERJ6GEY0R00	M 00HM,J,1/10W	
JA30	ERJ6GEY0R00	M 00HM,J,1/10W	
JA32	ERJ6GEY0R00	M 00HM,J,1/10W	
JA33	ERJ6GEY0R00	M 00HM,J,1/10W	
JA34	ERJ6GEY0R00	M 00HM,J,1/10W	
JA35	ERJ6GEY0R00	M 00HM,J,1/10W	
JA37	ERJ6GEY0R00	M 00HM,J,1/10W	
JA39	ERJ6GEY0R00	M 00HM,J,1/10W	
JA4	ERJ6GEY0R00	M 00HM,J,1/10W	
JA4	ERJ6GEY0R00	M 00HM,J,1/10W	
JA48	ERJ6GEY0R00	M 00HM,J,1/10W	
JA49	ERJ6GEY0R00	M 00HM,J,1/10W	
JA5	ERJ6GEY0R00	M 00HM,J,1/10W	
JA5	ERJ6GEY0R00	M 00HM,J,1/10W	
JA51	ERJ6GEY0R00	M 00HM,J,1/10W	
JA52	ERJ6GEY0R00	M 00HM,J,1/10W	
JA53	ERJ6GEY0R00	M 00HM,J,1/10W	
JA54	ERJ6GEY0R00	M 00HM,J,1/10W	
JA55	ERJ6GEY0R00	M 00HM,J,1/10W	
JA56	ERJ6GEY0R00	M 00HM,J,1/10W	
JA57	ERJ6GEY0R00	M 00HM,J,1/10W	
JA58	ERJ6GEY0R00	M 00HM,J,1/10W	
JA59	ERJ6GEY0R00	M 00HM,J,1/10W	
JA6	ERJ6GEY0R00	M 00HM,J,1/10W	
JA6	ERJ6GEY0R00	M 00HM,J,1/10W	
JA60	ERJ6GEY0R00	M 00HM,J,1/10W	
JA7	ERJ6GEY0R00	M 00HM,J,1/10W	
JA7	ERJ6GEY0R00	M 00HM,J,1/10W	
JA71	ERJ6GEY0R00	M 00HM,J,1/10W	
JA72	ERJ6GEY0R00	M 00HM,J,1/10W	
JA73	ERJ6GEY0R00	M 00HM,J,1/10W	
JA8	ERJ6GEY0R00	M 00HM,J,1/10W	
JA8	ERJ6GEY0R00	M 00HM,J,1/10W	
JA9	ERJ6GEY0R00	M 00HM,J,1/10W	
JA9	ERJ6GEY0R00	M 00HM,J,1/10W	
JK3002	K4BK09B00006	REAR AV TERMINAL	
JK3003	K4BK07B00008	REAR AV TERMINAL	
JK3101	K4BK07B00007	FRONT AV TERMINAL	
JK351	K3B095A00001	CRT SOCKET	△
JS185	ERJ6GEY0R00	M 00HM,J,1/10W	
JS2132	ERJ6GEY0R00	M 00HM,J,1/10W	
JS2301	J0JKB0000034	EMI FILTER	
JS3018	ERJ6GEY0R00	M 00HM,J,1/10W	
JS3104	ERJ6GEY0R00	M 00HM,J,1/10W	
JS3105	ERJ6GEY0R00	M 00HM,J,1/10W	
JS3132	ERJ6GEY0R00	M 00HM,J,1/10W	
JS3133	ERJ6GEY0R00	M 00HM,J,1/10W	
JS3140	ERJ6GEY0R00	M 00HM,J,1/10W	
JS3260	ERJ6GEY0R00	M 00HM,J,1/10W	
JS354	ERJ6GEY0R00	M 00HM,J,1/10W	
JS355	ERJ6GEY0R00	M 00HM,J,1/10W	
JS356	ERJ6GEY0R00	M 00HM,J,1/10W	
JS364	ERJ6GEY0R00	M 00HM,J,1/10W	
JS415	ERJ6GEY0R00	M 00HM,J,1/10W	
JS416	ERJ6GEY0R00	M 00HM,J,1/10W	
JS4871	ERJ6GEY0R00	M 00HM,J,1/10W	
JS4874	ERJ6GEY0R00	M 00HM,J,1/10W	
JS4890	ERJ6GEY0R00	M 00HM,J,1/10W	
JS5551	ERJ6GEY0R00	M 00HM,J,1/10W	
JS601	ERJ6GEY0R00	M 00HM,J,1/10W	
JS609	ERJ6GEY0R00	M 00HM,J,1/10W	
JS673	ERJ6GEY0R00	M 00HM,J,1/10W	
JS674	ERJ6GEY0R00	M 00HM,J,1/10W	
JS675	ERJ6GEY0R00	M 00HM,J,1/10W	
JS882	EXCELSA35T	BEAD CORE	
JS891	ERJ6GEY0R00	M 00HM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
JS900	ERJ6GEY0R00	M 00HM,J,1/10W	
K15	TJS3A9660	CONNECTOR	
K16	TJS3A9890	9P CONNECTOR	
K17	TJS3A9650	4P CONNECTOR	
K18	TJS3A9670	6P CONNECTOR	
K3	TJS3A9650	4P CONNECTOR	
K8	TJS3A9650	4P CONNECTOR	
TNR001	J3AAAAZ00001	TUNER	△
X101	K7256M	SAW FILTER	△
X180	EFC5M7MW3	CERAMIC FILTER	
X181	EFC56R0MW5	CERAMIC FILTER	
X182	EFC56R5MW5	CERAMIC FILTER	
X183	EFC54R5MW5	CERAMIC FILTER	
X2130	TSSA128	CRYSTAL OSC	
X601	H0D120500006	CRYSTAL OSC	
Y100	K1KA08B00121	CONNECTOR	
YC44	TJS4G8080	20P CONNECTOR	
YC46	TJS3A9650	4P CONNECTOR	
YC47	TJS118590	2P CONNECTOR	