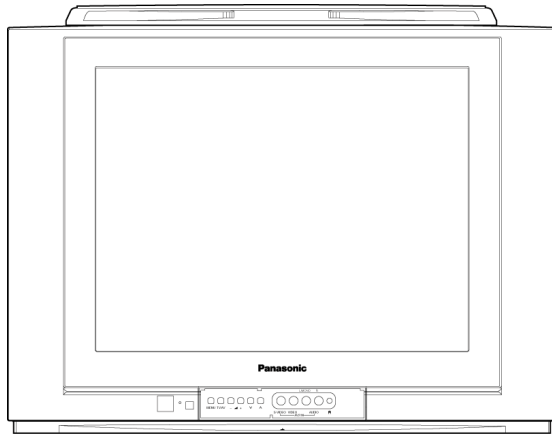


Service Manual

Colour Television



TX-21FJ70R

GP4 Chassis

Specifications

Power Source :	AC AUTO 110-240V, 50 / 60 Hz
Power Consumption :	108W
Aerial Impedance :	75 Ω unbalanced
	Coaxial type
Receiving System :	17 Systems
Receiving Channels :	
VHF	2-12 PAL / SECAM B, K1 0-12 PAL B (AUST) 1-9 PAL B (N.Z) 1-12 PAL / SECAM D 1-12 NTSC M (JAPAN) 2-13 NTSC M (U.S.A)
UHF	21-69 PAL G I / SECAM B, G, K1 28-69 PAL G (Australia) 13-56 PAL D 13-52 NTSC M JAPAN 14-69 NTSC NTSC M U.S.A. S1-S41 (Hyper)
CATV	
Intermediate Frequency :	
Video	38.0 MHz
Sound	31.5 MHz (D, K, K1) 32 MHz (I) 32.5 MHz (B, G) 33.5 MHz (M)

Colour	33.57 MHz (PAL) 33.6 MHz (SECAM) 33.75 MHz (SECAM) 34.42 MHz (NTSC)
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Video / Terminals :	AV 1, 2, 3, 4
RAV In	Video In 1 Vp-p 75 Ω Audio In Approx. 400mVrms
Monitor Out	Video Out 1 Vp-p 75 Ω Audio Out Approx. 400mVrms

High Voltage :	27.5kV $\pm$ 1.5 at zero beam current
Picture Tube :	A51LXR195X 51cm (21 inches) Measured diagonally, 90 ° deflection

Audio Output :	20 W
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Dimensions :	Height : 495 mm Width : 648 mm Depth : 488 mm
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Mass :	27 kg (Net Wt.)
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Specifications are subject to change without notice.
Mass 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.

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1 Safety Precautions

1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing this 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 cord outlet.
5. Potential, as high as **29.0kV** 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. 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.
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 (Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Check a 2 kΩ non-inductive resistor and an AC/DC current meter, in series with each exposed metallic part on the receiver in turn and an earth such as a water pipe.

The current from any point should not exceed 0.7 mA peak AC or 2 mA DC. In the case of a measurement being outside of these limits specified, there is a possibility of a shock hazard and the receiver should be repaired and rechecked before it is returned to the customer.

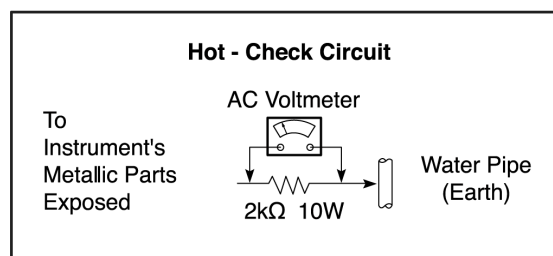


Fig. 1

1.4. X-Radiation

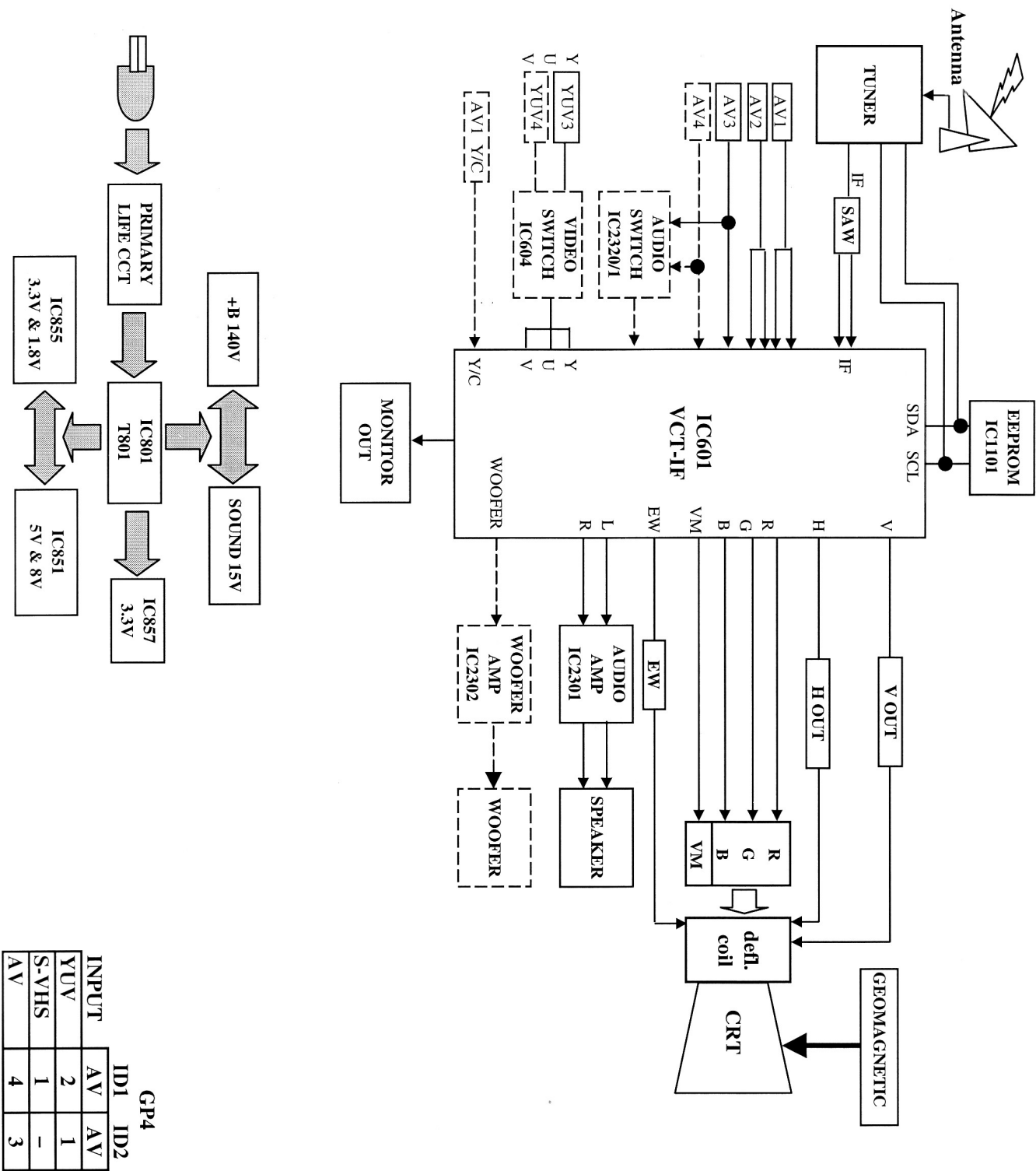
Warning:

The potential sources of X-Radiation in TV set are the EHT section and the picture tube. When using a picture tube test jig for service, ensure that jig is capable of handling **29.0kV** without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Use the remocon to get into Service Mode.
3. Measure the EHT. The meter reading should indicate **27.5±1.5kV**. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent the possibility X-Radiation, it is essential to use the specified picture tube, if service replacement becomes necessary.

1.5. GP4 Chassis Block Diagram



GP4			
INPUT	ID1		ID2
	AV	AV	AV
	YUV	2	1
	S-VHS	1	-
AV	4	3	

2 Service Hints

2.1. Service Position for E-Board

1. Remove the back cover.
2. Stand the TV set as shown in Fig. 2.
3. Remove the A-Board from the TV set by pulling the main board out as shown in Figure 2.

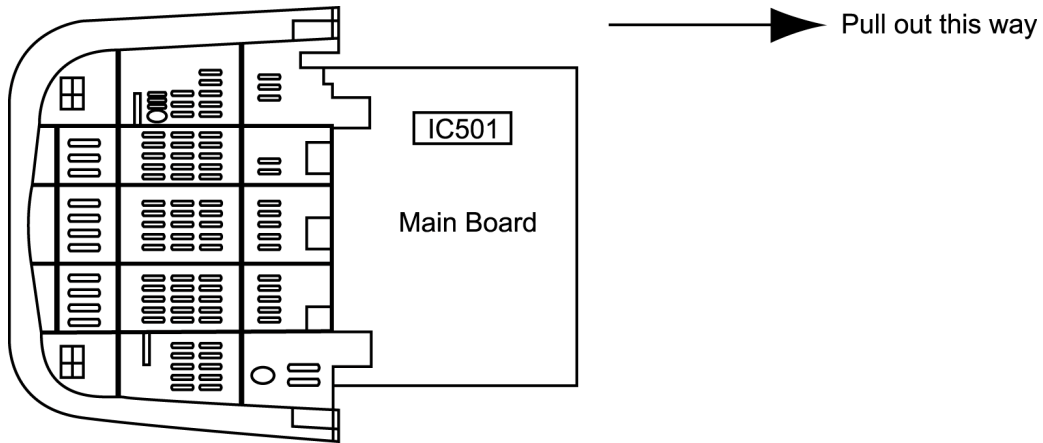


Fig. 2

2.2. Factory Mode Adjustment

How to set :

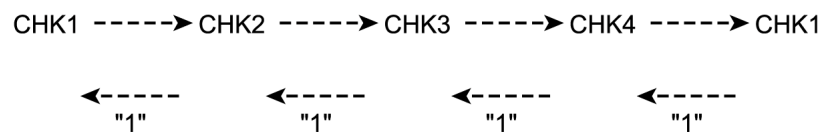
To set the Factory mode, press Volume 0 on the TV and Timer Setting 30 min. on the remote control and press Volume (-) Down button on the TV together press recall on the remote control.

CHK should appear on right of TV screen.

To move from CHK1 to CHK2 mode, etc. please follow below rotation :

To Set Self-Check :

Press the Volume Down button on TV then press the Off Timer button on remote control.



2.3. Adjustment for White Balance

Preparation:

1. Receive the white balance pattern and aging should have been performed over 30 minutes.
2. Set the picture menu to DYNAMIC NORMAL.
3. Degauss the CRT face.
4. Fix the CRT colour analyzer receiver unit to CRT face.

Adjustment of Low Light.

1. Adjustment Sub Bright, so that $Y = 6.3 \pm 1.0$ nit.
2. Adjustment R-CUT OFF, so that $X = 0.243 \pm 0.005$ nit.
3. Adjustment G-CUT OFF, so that $Y = 0.255 \pm 0.005$ nit.

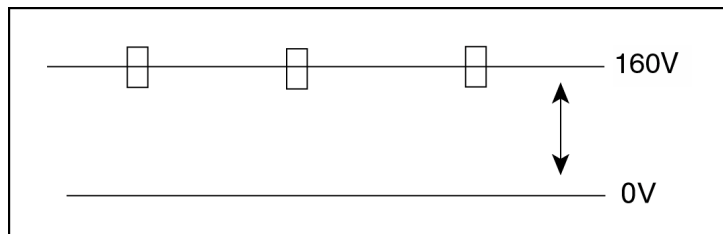
Adjustment of High Light

1. Adjustment Sub Bright, so that $Y = 150$ nit.
2. Adjustment R-Drive, so that $X = 0.260 \pm 0.003$ nit.
3. Adjustment B-Drive, so that $Y = 0.265 \pm 0.003$ nit.

2.4. Adjustment for CRT CUT OFF

Preparation:

1. Connect the oscilloscope probe to TPL5.
2. Screen VR min.
3. Set the data Sub Bright, Bright.
4. In service Mode at "Bright" dac press [5] in factory mode to enter vertical line and adjust by volume down or up button.
5. Adjust "Screen VR" until 1-H Line appears.



2.5. Adjustment Procedure

Item / Preparation	Adjustment Procedure
+B Voltage 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 : TPD 15 : $3.3 \pm 0.2V$ TPD 16 : $141 \pm 2V$ TPD 17 : $8 \pm 0.2V$ TPD 18 : $1.8 \pm 0.2V$ TPD 19 : $5 \pm 0.2V$ TPD 20 : $220 \pm 15V$
RF AGC 1. Receive a colour bar signal at an RF level of 69 ± 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 $2.3 \pm 0.1V$ at PIN 1 (Tuner point). 3. Increase RF signal strength by 2dB, confirm AGC at Tuner voltage drop.
High Voltage 1. Receive the crosshatch pattern. 2. Set to 0 Beam. Screen VR minimum Contrast minimum	1. Connect a DC voltage meter to TPA 16 and confirm the +B voltage is $141.0 \pm 2V$. 2. Connect a high frequency voltmeter to heater and confirm that voltage reads 6.3 ± 0.24 (VRMS). 3. Normalize the brightness and contrast.
Item / Preparation	Adjustment Procedure
NTSC TINT COLOUR Connect oscilloscope probe to TPL1 (R OUT) with $10k\Omega$ 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 ± 15 by Tint control. 3. Confirm that colour level is maximum when colour DAC is adjusted to maximum position. Note: Use remote control only when adjusting user mode to Sub-Tint.

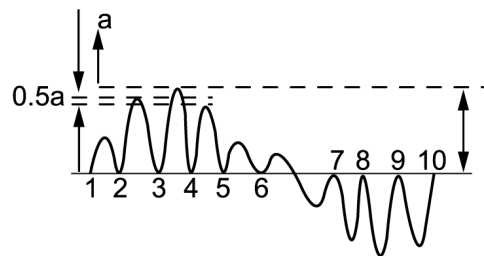


Fig. 3

2.6. PAL Colour

1. Receive the PAL B/G studio colour bar pattern and adjust local frequency at the best tuned position.
2. Pic Menu: Dynamic Normal, Confirm Contrast - 100 DAC, Sub Contrast - 21 dac.
3. Channel colour set ----- STD
4. "CHK2" and press digit key "5" (AKB OFF) also confirm OSD become blue colour.
5. Connect TPA 10 to TPA 20.
6. Set (A) to $2.3 \pm 0.2V$ by BRT (CHK2) at measurement point TPL 2 Fig. 4.

2.7. Adjustment

1. Connect oscilloscope probe to TPL 5 (G OUT) with 10k Ω series resistor and adjust Contrast so that (B) as in Fig. 4 is $1.95 \pm 0.2V$.
2. Adjust "Sub Colour" so that waveform as in Fig. 4 (1) $2.5 \pm 0.1V$.

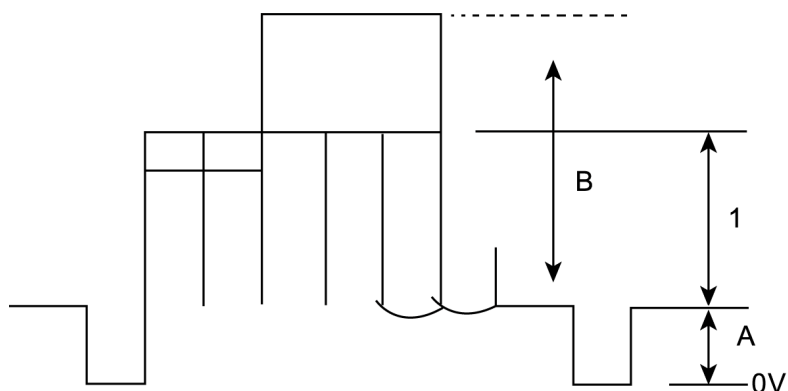


Fig. 4

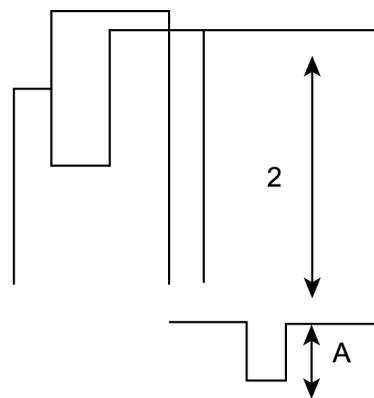


Fig. 5

Before Colour Purity, Convergence and White Balance adjustment are attempted,
V. Height, H. Centre and Focus adjustments must be completed.

Colour Purity

1. Set the Brightness and Contrast controls to their maximum positions.
2. Operate the TV set for 60 minutes.
3. Fully degauss the picture tube by using an external degaussing coil.
4. Apply a crosshatch pattern signal and adjust the static convergence magnets to the approximately correct position.
5. Receive a black and white signal.
6. Set the control as follows:
Red.....minimum
Green.....minimum
Blue.....minimum
Press the Shipping button on the remote control twice to select CRT Adjustment Mode to select low light.
7. Loosen the clamp screw for the Deflection Yoke A in Fig. 10 and move the Deflection Yoke as close to the purity magnet as possible.
8. Adjust the purity magnetic rings so that a vertical green field is obtained at the centre of the screen.

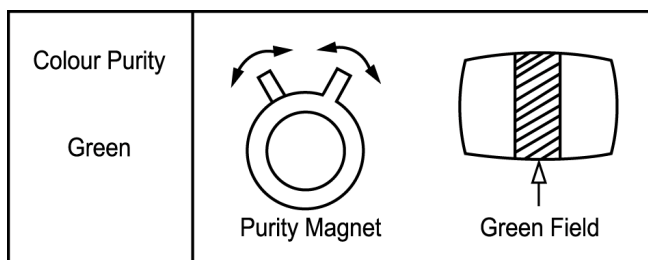


Fig. 6

9. Slowly push the Deflection Yoke and set it where a uniform green field is obtained.

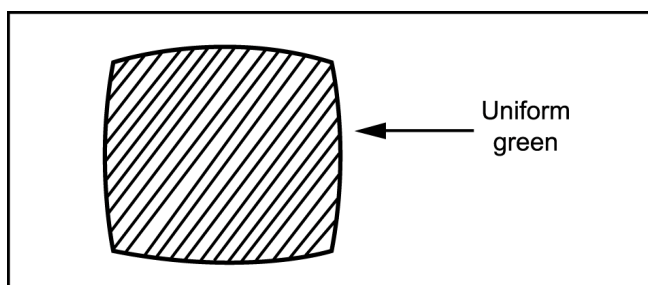


Fig. 21

10. Re-adjust the Low Light controls to their correct settings and make sure that a uniform white field is obtained.
11. Tighten the clamp screw A in Fig. 10.

Convergence

1. Apply a crosshatch pattern signal and Normalize Contrast control to the maximum positions.
2. Adjust Brightness until the grey position of the crosshatch pattern just becomes black.
3. Adjust the Red and Blue line at the centre of the screen by rotating the R-B static.

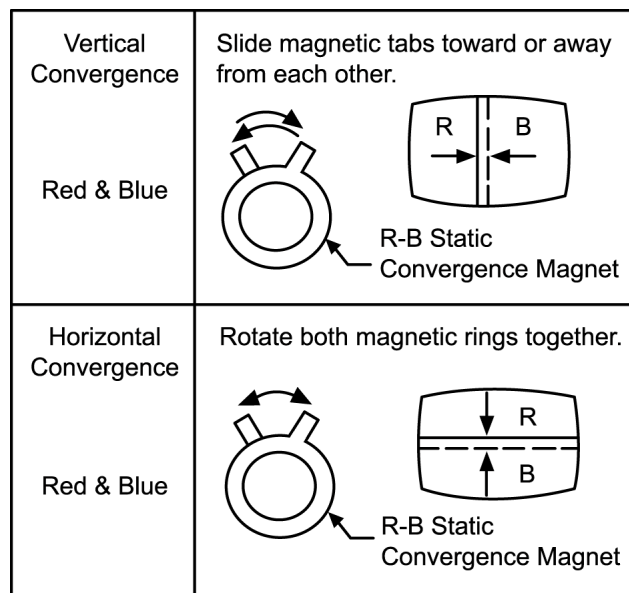


Fig. 8

4. Adjust Red and Blue with Green line at centre of the screen by rotating (RB)-G static convergence magnetic rings.
5. Lock convergence magnets with silicone sealer.
6. Remove the DY wedges and slightly tilt the Deflection Yoke vertically and horizontally to obtain the good overall convergence.

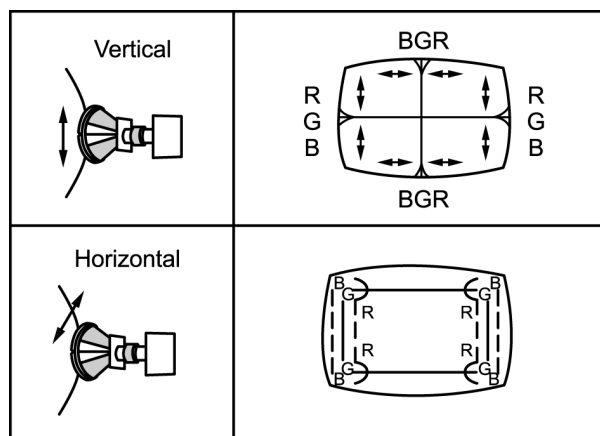


Fig. 9

7. Fix the Deflection Yoke by reinserting the DY wedges. Refer to Fig. 10.
8. If purity error is found, repeat "Colour Purity" adjustment.

Adjustment of CRT VRS

1. Preparation

- Set DY to CRT not to tilt up and down left and right deflection.
- Set CY to CRT and set CY magnet primarily (Fig. 1)
 Purity magnet : Set purity magnet that 2 magnets are (TOP POSITION)
 VRS magnet : Set purity magnet 2 magnets are (HORIZONTAL POSITION)

2. Adjustment

- Receive that Cross Hatch pattern.
- Adjust V-SHIFT -50Hz.
- Set 2 magnets of horizontal position to up and down equally so that it will be the center part of CRT. (Fig. 2)

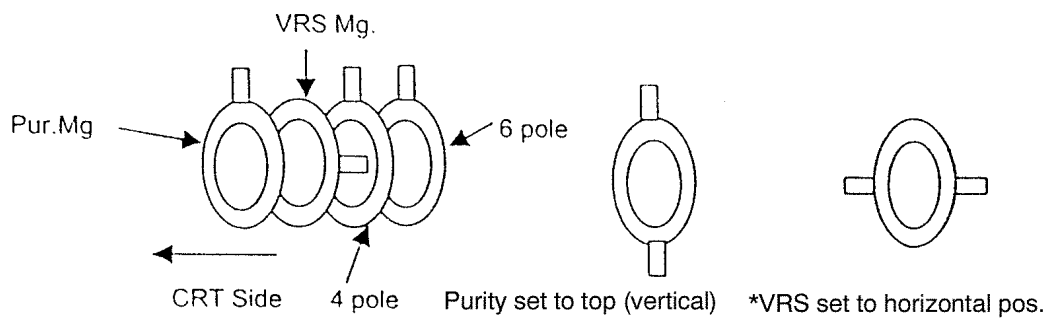
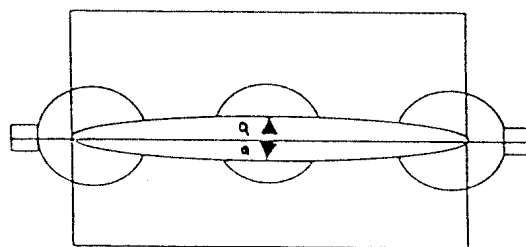


FIG 1.



$$a \leq 0 \pm 1\text{mm}$$

FIG 2.

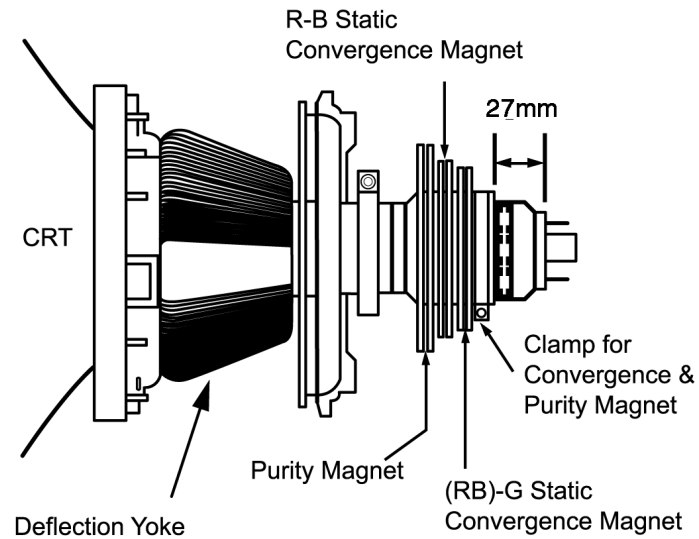


Fig. 10

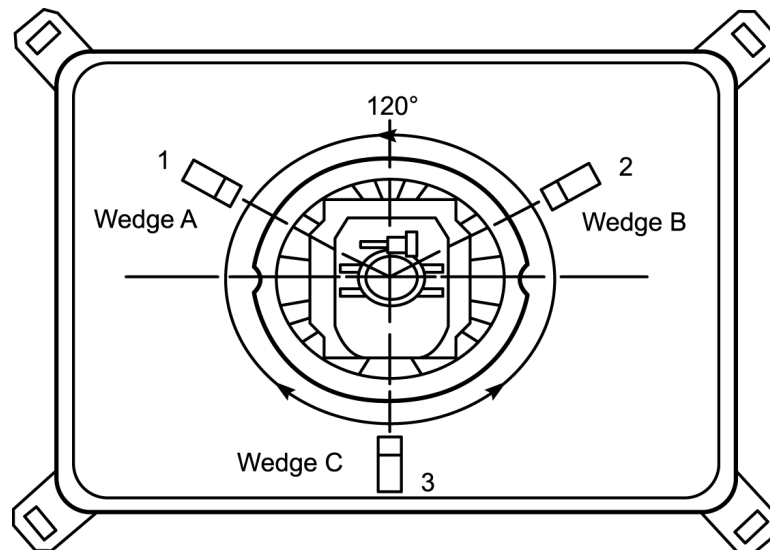


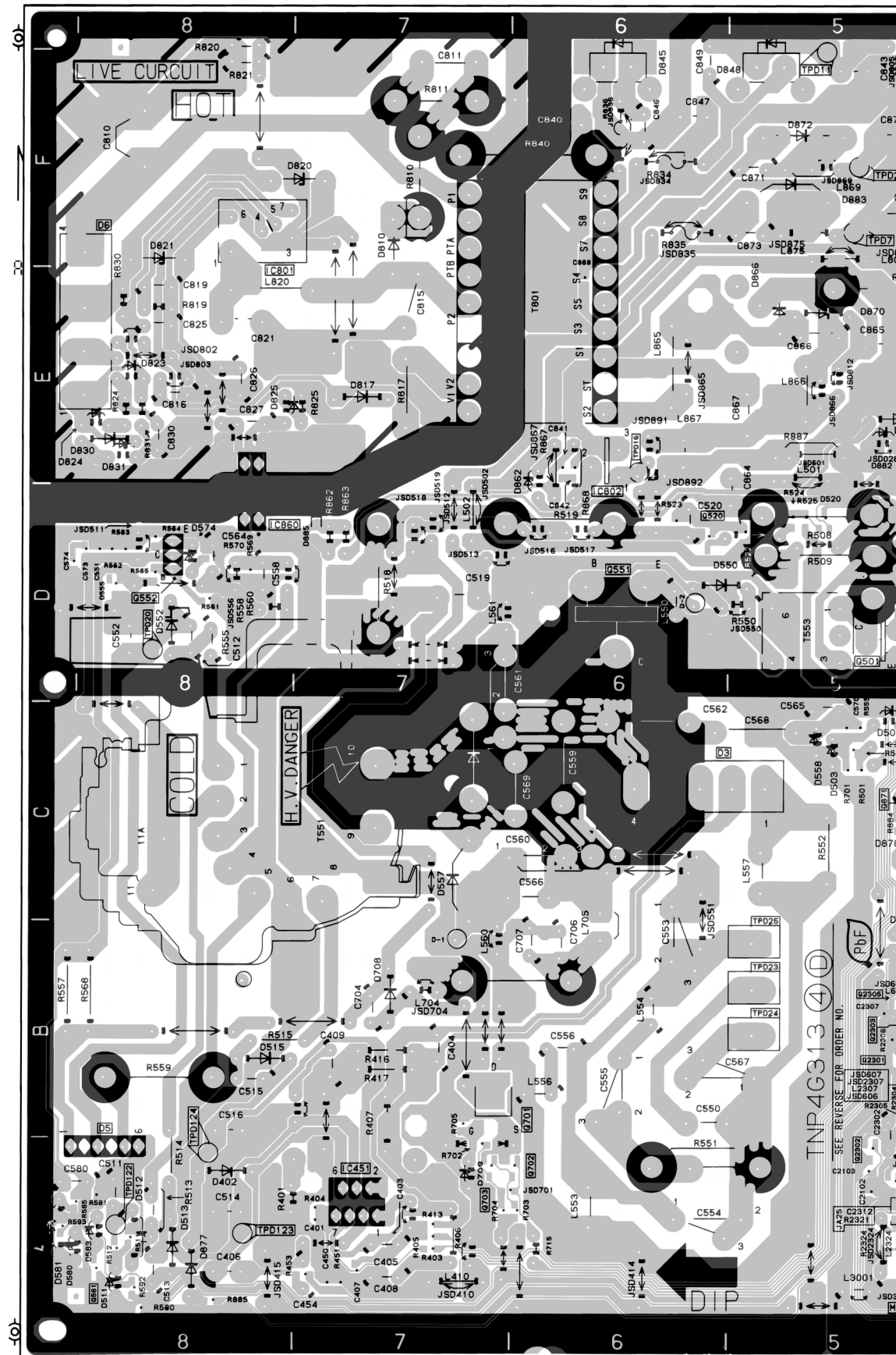
Fig. 11

Notes:

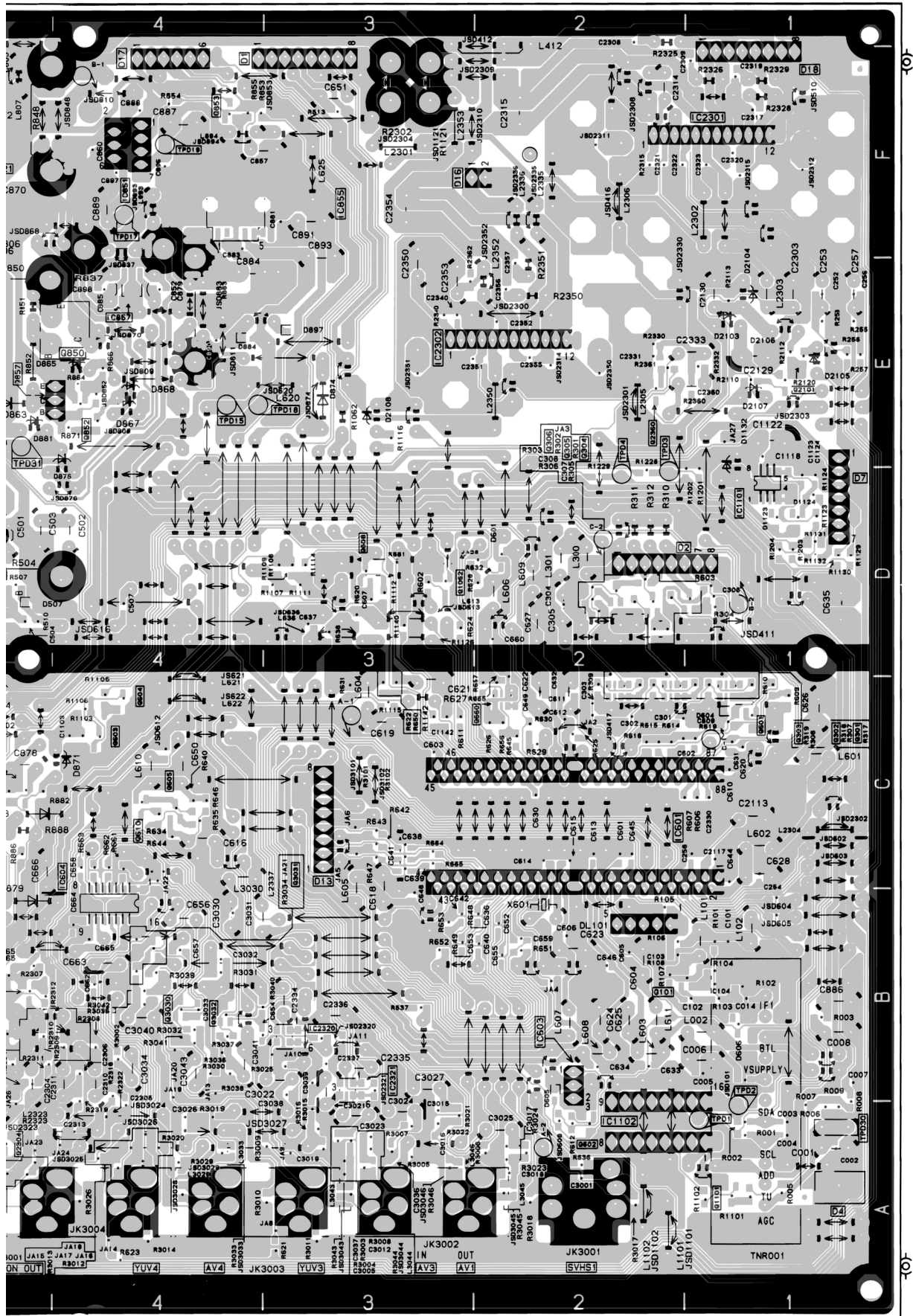
1. Wedge A, B and C should be inserted following the sequence of 1, 2 and 3 shown in Fig. 11.
2. The wedges should be set 120° apart from each other.
3. Be certain that three wedges are firmly fixed and the Deflection Yoke is tightly clamped in place. Otherwise the Deflection Yoke may shift its position and cause a loss of convergence and purity.

3 Conductor Views

3.1. D-Board 1 / 2



3.2. D-Board 2 / 2



4 Schematic Diagram

Important Safety Notice

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

Notes :

1. Resistor

All resistors are carbon 1/4W resistors unless marked as follows :

Unit of resistance is OHM (Ω) (K = 1 000 M = 1 000 000)

	Nonflammable		Metal Oxide
	Solid		Metal Film
	Wire Wound		Fuse

2. Capacitor

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

Unit of capacitance is μF unless otherwise noted.

	Temperature Compensation		Electrolytic
	Polyester		Bipolar
	Metalized Polyester		Dipped Tantalum
	Polypropylene		Z-Type

3. Coil

Unit of inductance is μH , unless otherwise noted.

4. Test Point

 : Test Point position

5. Earth Symbol

 : Chassis Earth (Cold)  : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured using DC voltmeter.

Conditions of the measurement are the following :

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

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 (↗) is found, connection is easily found from the direction of arrow.

9. ➡ : Indicates the major signal flow.

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

Remarks :

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 :

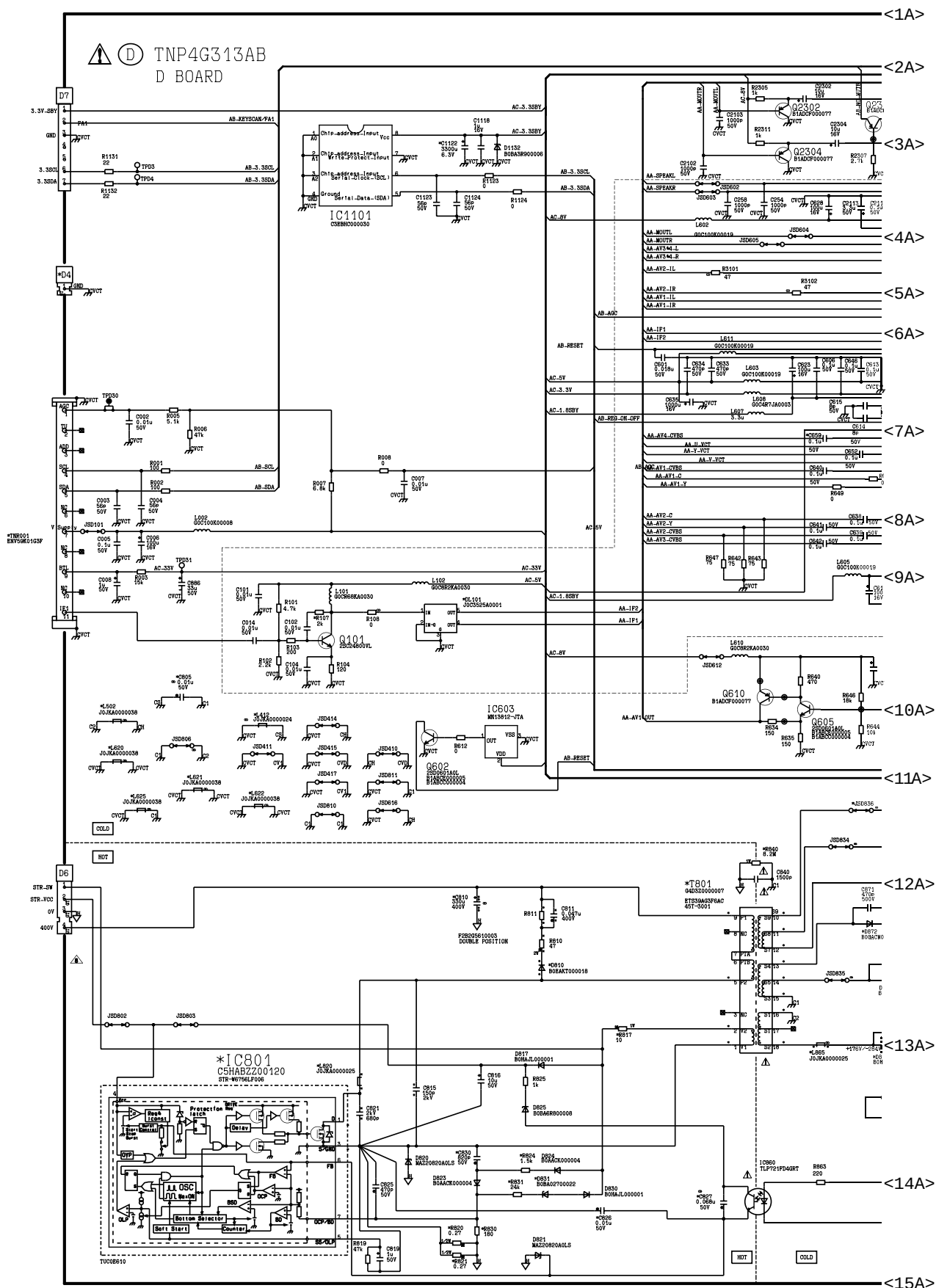
All circuits, except the Power Circuit are cold.

Precautions :

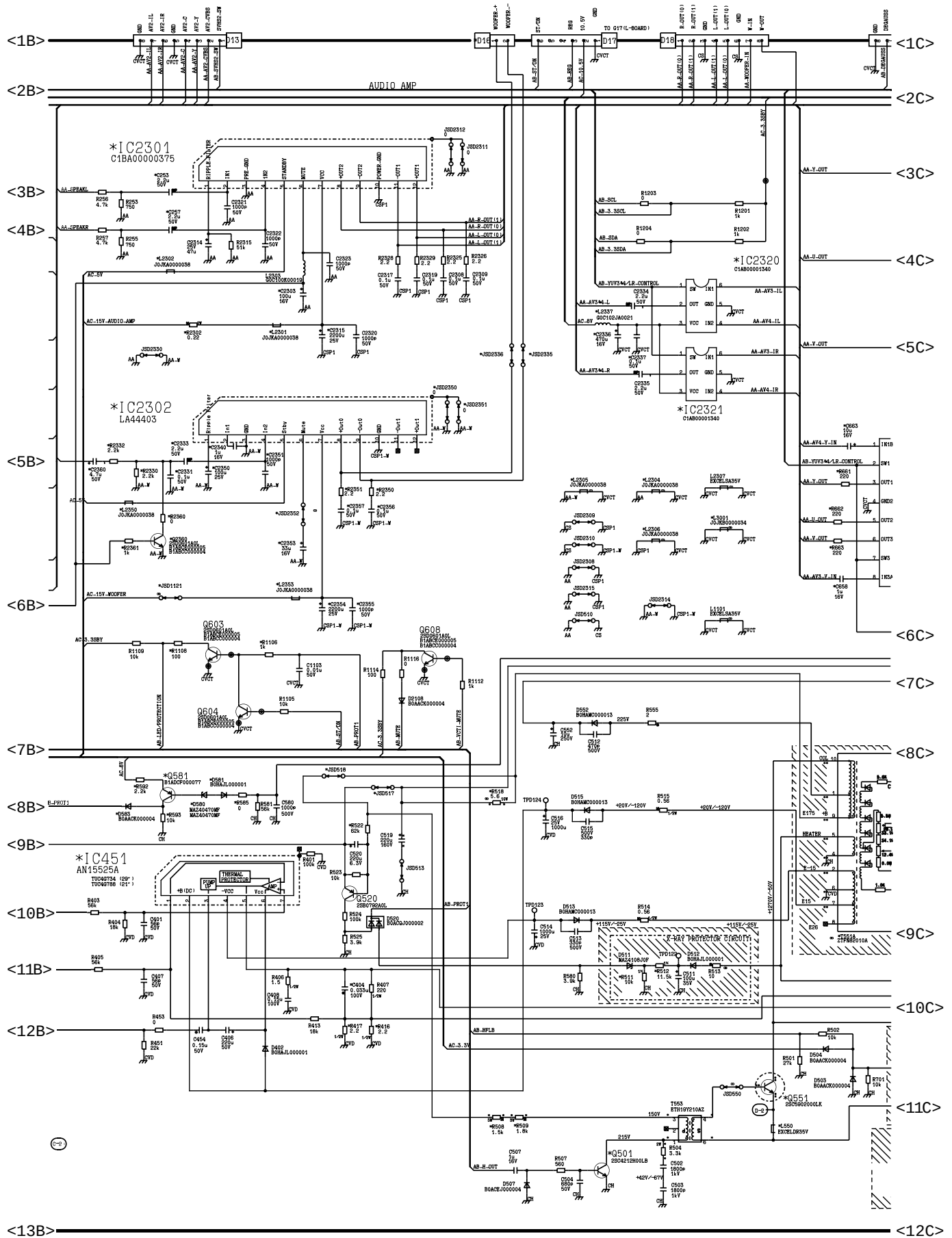
- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
- b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
- c. Do not connect an instrument such as an oscilloscope to the hot and cold circuits simultaneously or a fuse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

4.1. D BOARD

4.1.1. D BOARD (1 / 4)

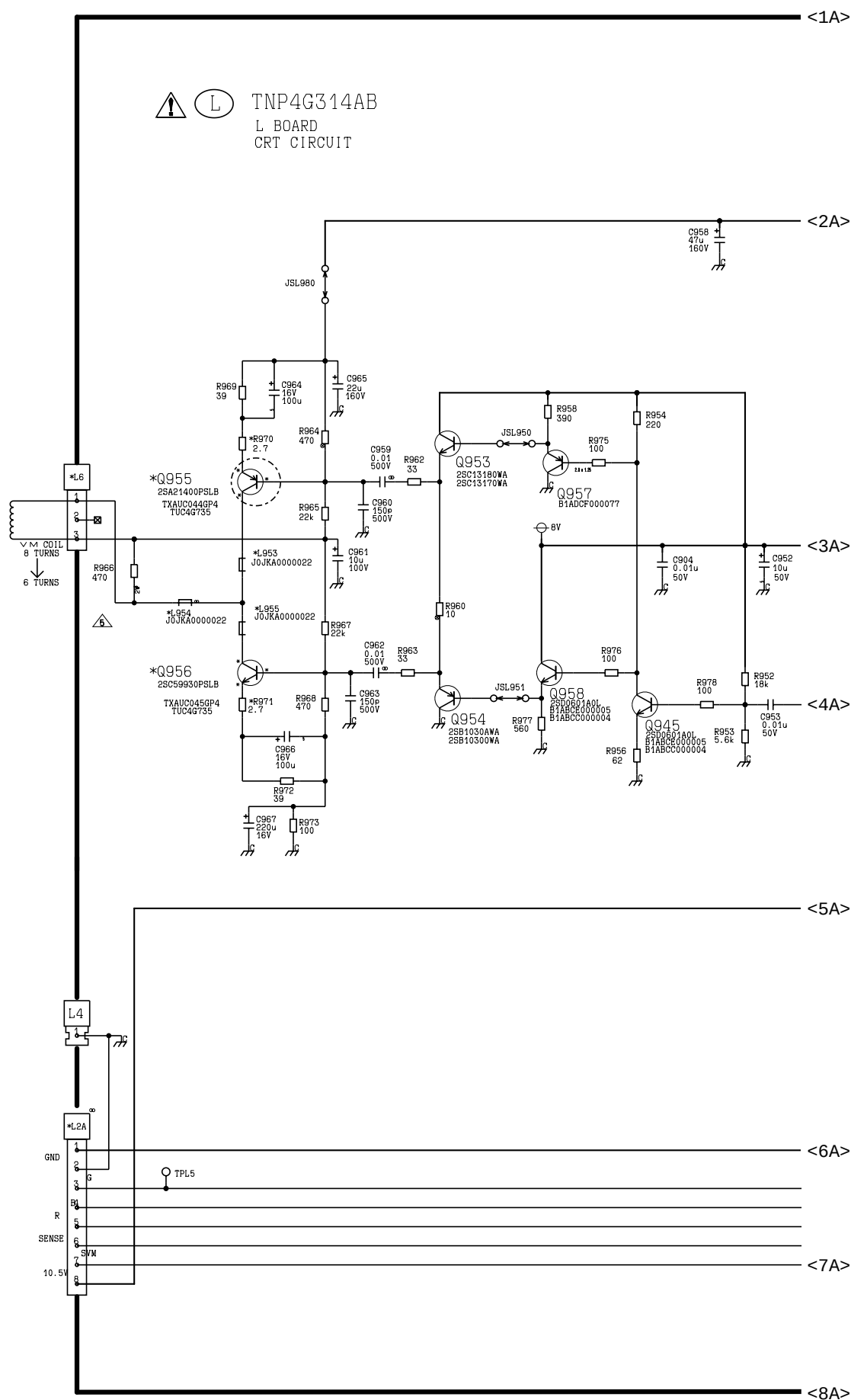


4.1.3. D BOARD (3 / 4)

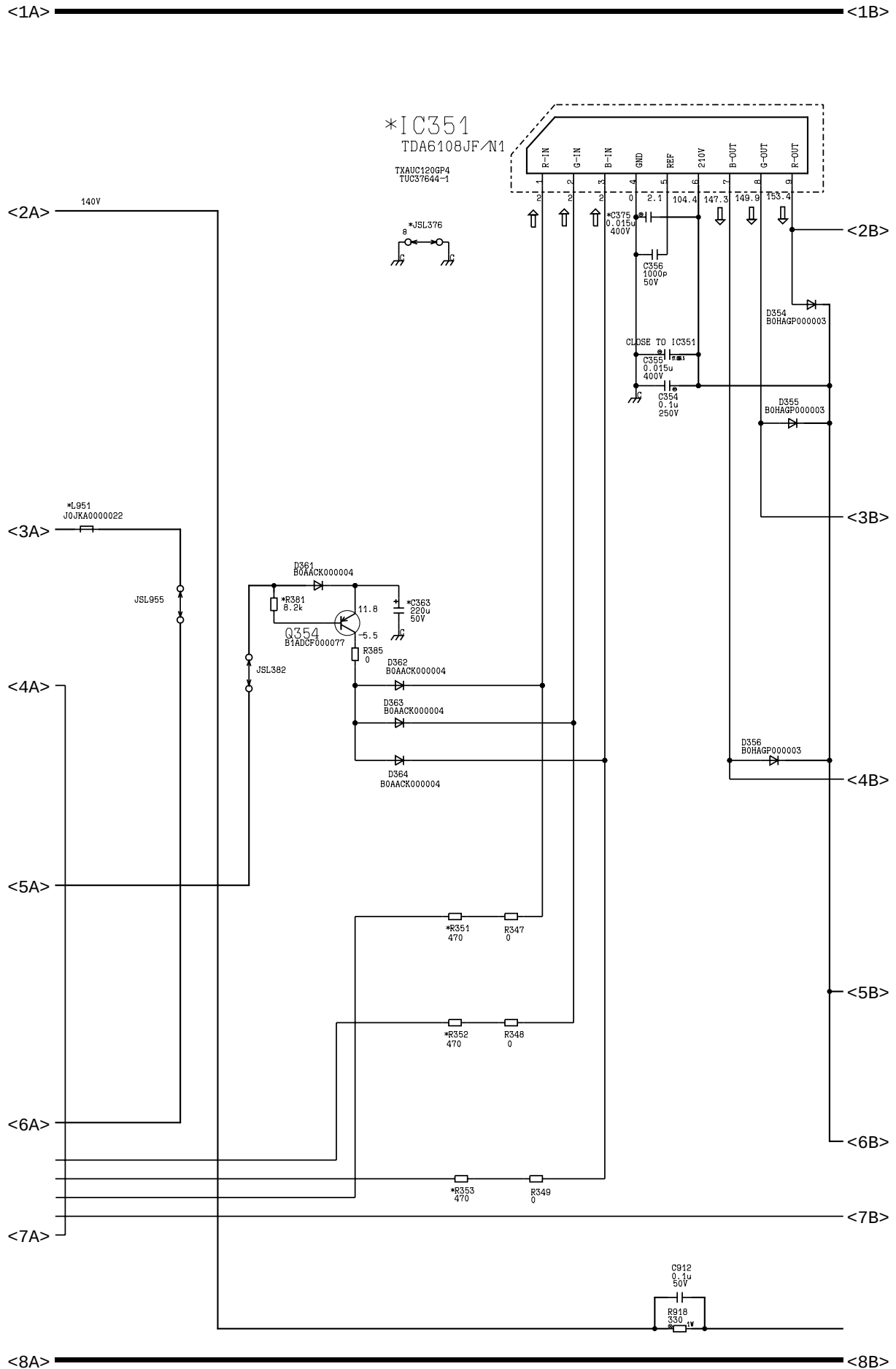


4.2. L BOARD

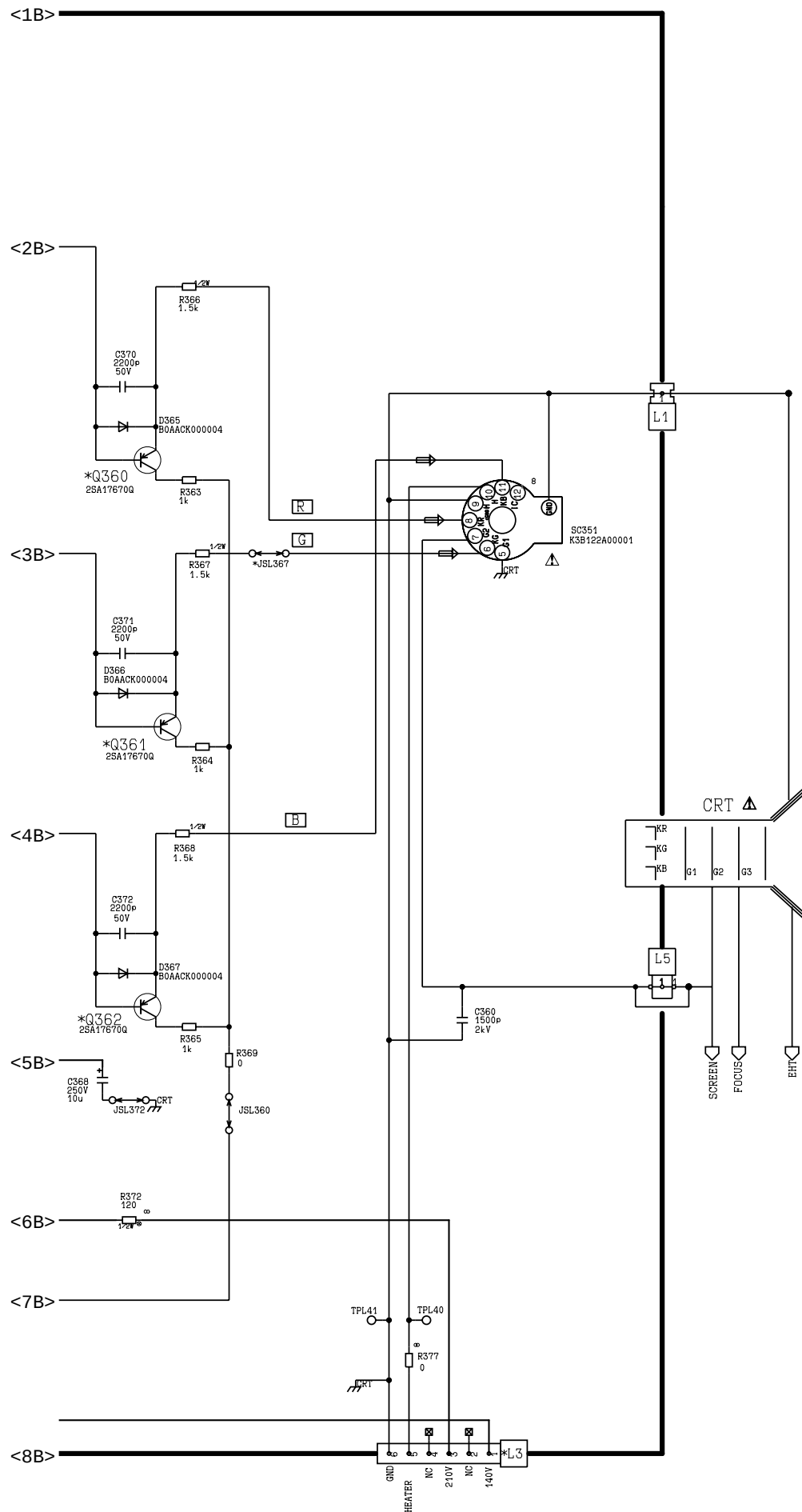
4.2.1. L BOARD (1 / 3)



4.2.2. L BOARD (2 / 3)

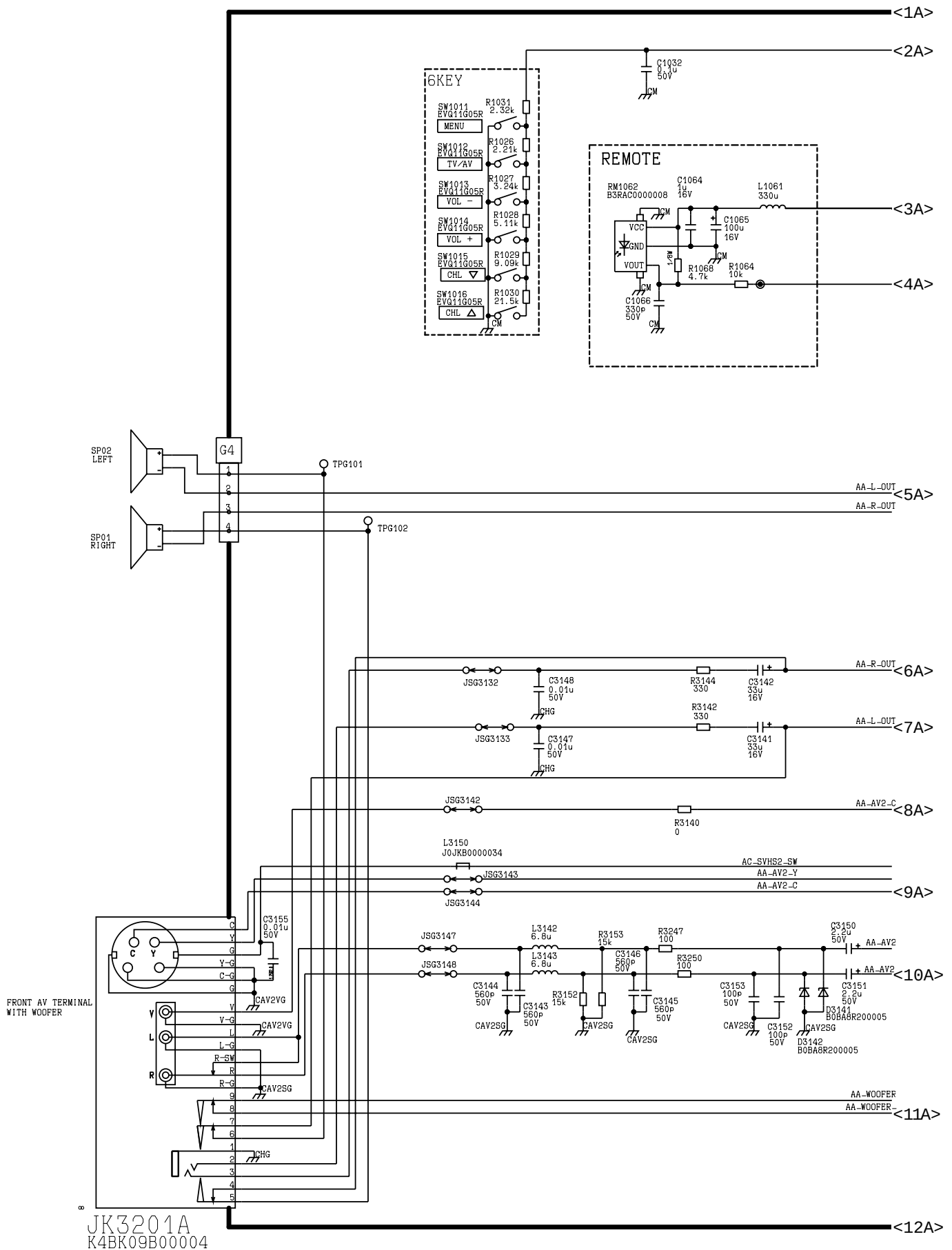


4.2.3. L BOARD (3 / 3)

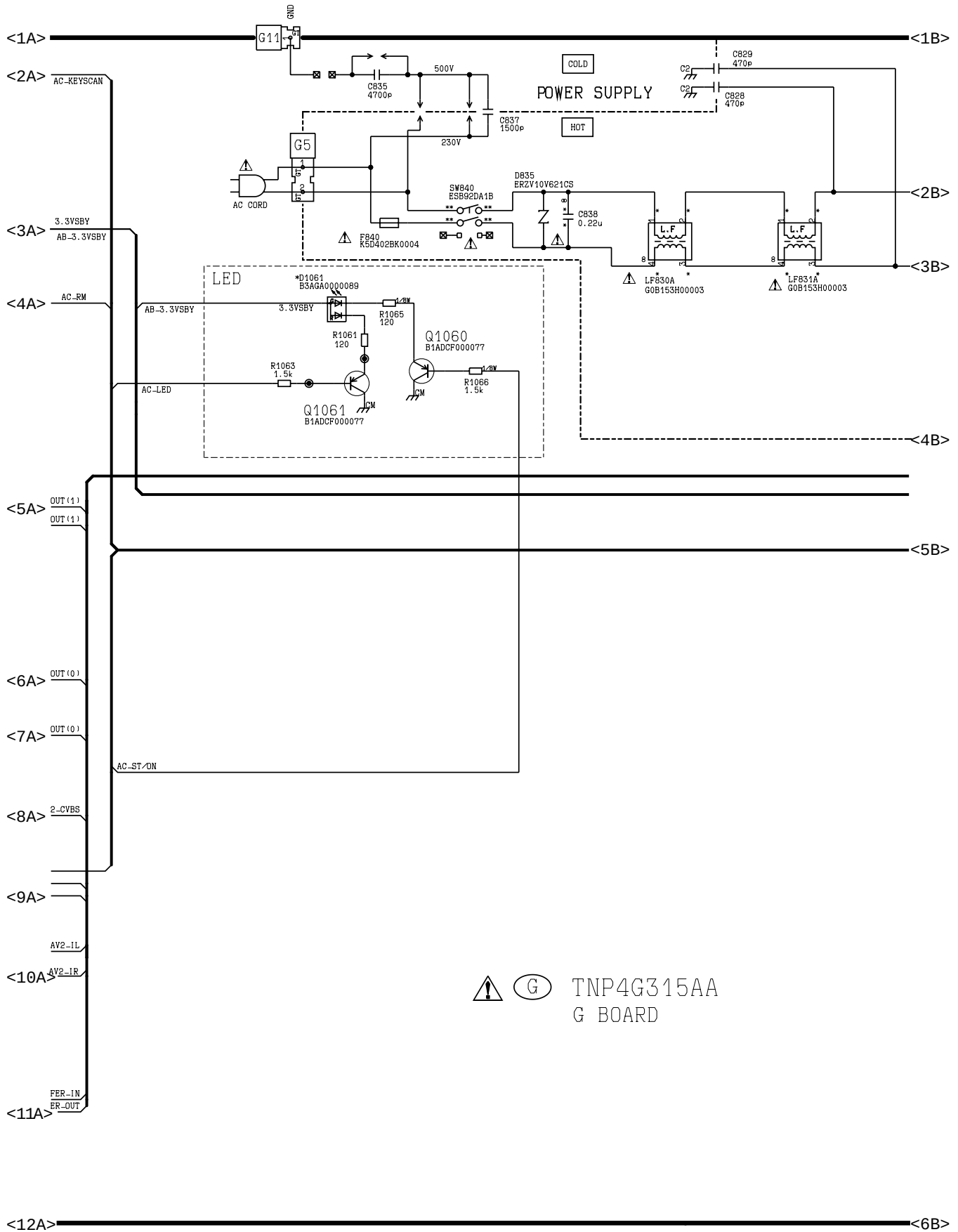


4.3. G BOARD

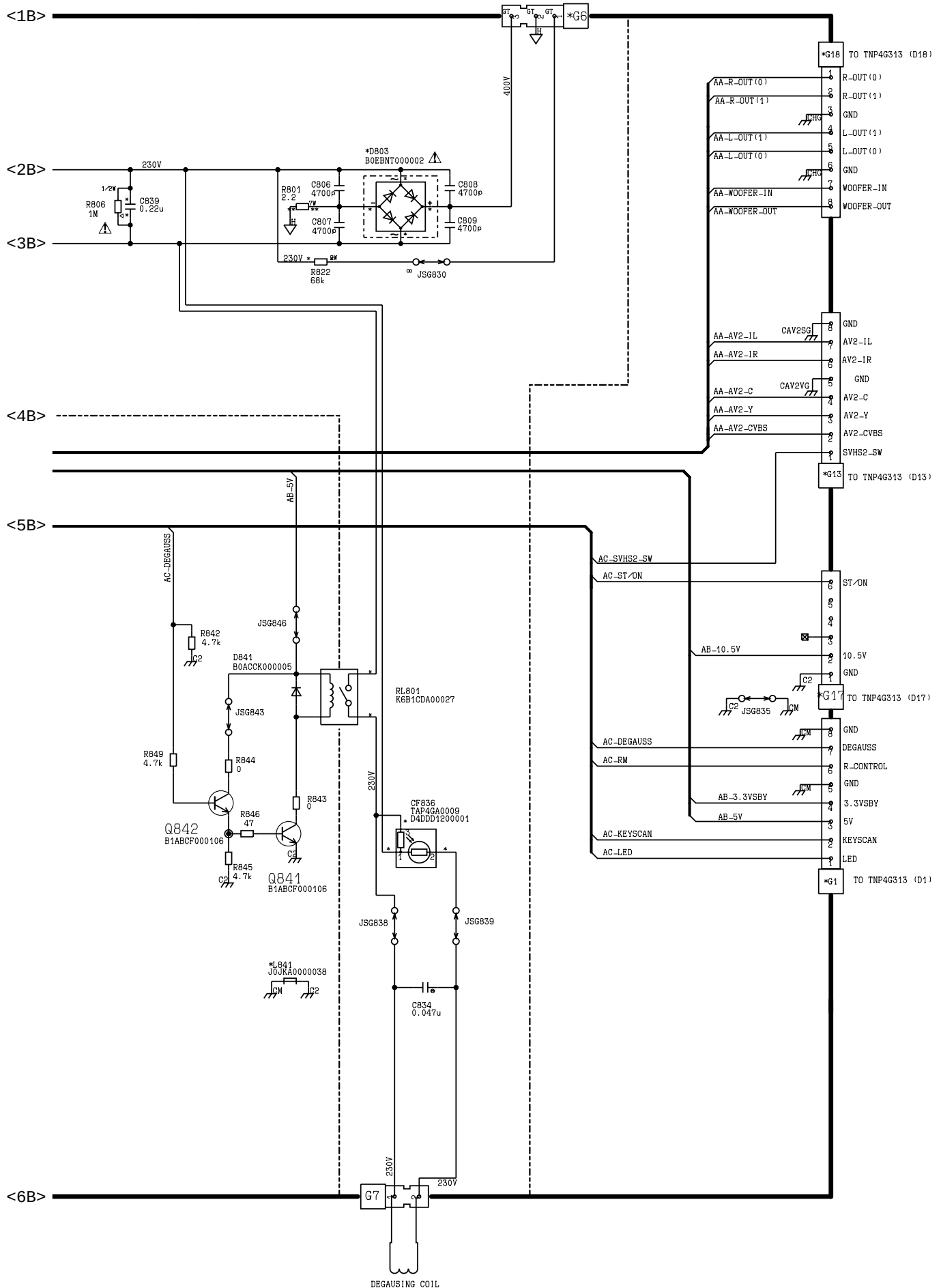
4.3.1. G BOARD (1 / 3)



4.3.2. G BOARD (2 / 3)



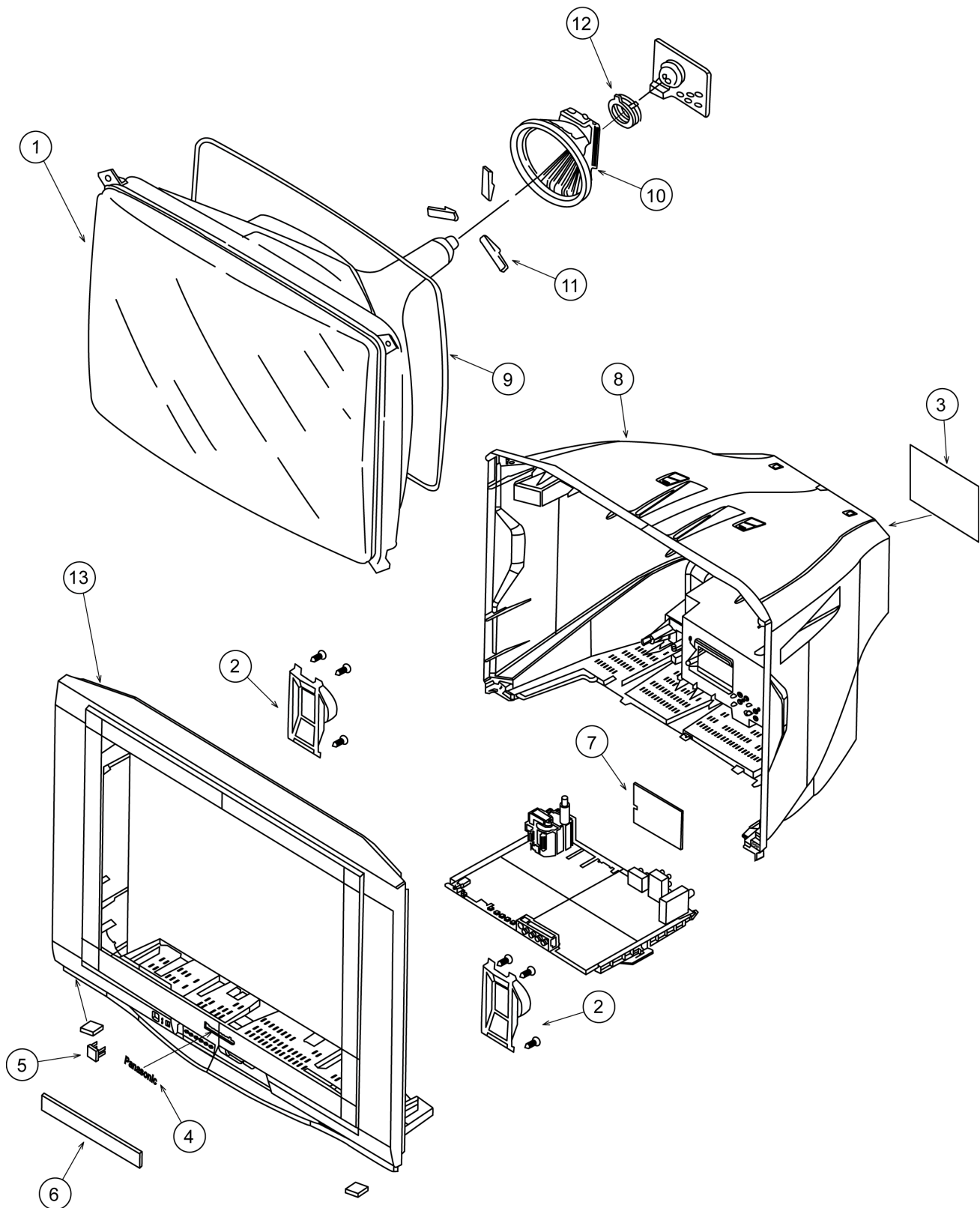
4.3.3. G BOARD (3 / 3)



5 Parts Locations

PARTS LOCATION

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



6 Replacement Parts List

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** 0.01 μ F, **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 : $\pm 100\%$, -0% Z : $\pm 80\%$, -20%

6.1. Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
1	A51LXR195X	PICTURE TUBE	△
2	EASG15S02H2	SPEAKER	
	K4BC02H00007	2P PUSH TERMINAL	
	N2QAJB000080	REMOTE CONTROL	
3	TBM4G1096	MODEL NAME PLATE	△
4	TBM4G3013	PANASONIC BADGE	
5	TBX4G90111	POWER BUTTON	
	TES4G206	COIL SPRING	
	TES4G214	SPRING (POWER BUTTON)	
	TKK4G8597	SPEAKER BRACKET	
6	TKP4G13031	DOOR	
7	TKP4G13080-1	AC CORD BRACKET	
8	TKU4GA1310-2	BACK COVER	
9	TLK4G9037S	DEGAUSSING COIL	△
10	TLY4G337T	DEFLECTION YOKE	△
11	TMM4G503	RUBBER WEDGE	
	TMM4G904	RUBBER WASHER	
NLA	TNP4G313AB	D BOARD	△
NLA	TNP4G314AB	L BOARD	△
NLA	TNP4G315AA	G BOARD	△
12	TP-13000PX2	CONVERGENCE YOKE	
	TPE4G14036	SET COVER	
	TQB4G3701	FAN BAG	
	TSM10032-4	PURITY MAGNET	
	TSN63115-4	PURITY MAGNET	
	TSPX4G004	SUB WOOFER	
	TSX4G189L-1	AC POWER CORD	△
13	TXFKY03CG01	CABINET ASSY	
	TXFPC03CG01	CARTON	
	TXFPD03CG01	CUSHION (TOP)	
	TXFPD05CG01	CUSHION (BOTTOM)	
	CAPACITORS		
C002	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C003	ECJ2VC1H560J	C 56PF, J, 50V	
C004	ECJ2VC1H560J	C 56PF, J, 50V	
C005	F1J1H104A578	C 0.1UF, 50V	
C006	ECA1CM101B	E 100UF, 16V	
C007	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C008	ECA1HM010B	E 1UF, 50V	
C014	ECJ2VB1H103K	C 0.01UF, K, 50V	
C101	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1032	F1J1H104A578	C 0.1UF, 50V	
C104	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1064	ECJ2VF1C105Z	C 1UF, Z, 16V	
C1065	ECA1CM101B	E 100UF, 16V	
C1066	ECJ2VC1H331J	C 330PF, J, 50V	
C1103	ECJ2VB1H103K	C 0.01UF, K, 50V	
C1118	ECJ2VF1C105Z	C 1UF, Z, 16V	
C1122	F2A0J3320023	E 3300UF, 6.3V	
C1123	ECJ2VC1H560J	C 56PF, J, 50V	
C1124	ECJ2VC1H560J	C 56PF, J, 50V	
C1142	F1J1H104A578	C 0.1UF, 50V	
C2102	ECJ2VC1H102J	C 1000PF, J, 50V	
C2103	ECJ2VC1H102J	C 1000PF, J, 50V	
C2113	ECA1HM3R3B	E 3.3UF, 50V	
C2117	F1J1H104A578	C 0.1UF, 50V	
C2129	ECA1CM102B	E 1000UF, 16V	
C2302	ECA1CM100B	E 10UF, 16V	
C2303	ECEA1CKA101	E 100UF, 16V	
C2304	ECA1CM100B	E 10UF, 16V	
C2305	ECUX1H101JCX	C 100PF, J, 50V	
C2306	ECUX1H101JCX	C 100PF, J, 50V	
C2307	ECJ2VF1C105Z	C 1UF, Z, 16V	
C2308	F1J1H104A578	C 0.1UF, 50V	
C2309	F1J1H104A578	C 0.1UF, 50V	
C2310	ECA1CM470B	E 47UF, 16V	
C2311	ECA1CM470B	E 47UF, 16V	
C2314	ECA1EM470B	E 47UF, 25V	
C2315	ECA1EM222E	E 2200UF, 25V	
C2317	F1J1H104A578	C 0.1UF, 50V	
C2319	F1J1H104A578	C 0.1UF, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2320	ECJ2VC1H102J	C 1000PF, J, 50V	
C2321	ECJ2VC1H102J	C 1000PF, J, 50V	
C2322	ECJ2VC1H102J	C 1000PF, J, 50V	
C2323	ECJ2VC1H102J	C 1000PF, J, 50V	
C2330	ECJ2VB1H102J	C 1000PF, 50V	
C2331	F1J1H104A578	C 0.1UF, 50V	
C2333	ECEA1HN2R2U	E 2.2UF, 50V	
C2334	ECEA1HN2R2U	E 2.2UF, 50V	
C2335	ECEA1HN2R2U	E 2.2UF, 50V	
C2336	F2A1C471A116	E 470UF, 16V	
C2337	F1J1H104A578	C 0.1UF, 50V	
C2340	ECJ2VF1C105Z	C 1UF, Z, 16V	
C2350	ECA1EM101B	E 100UF, 25V	
C2351	ECJ2VC1H102J	C 1000PF, J, 50V	
C2353	F2A1C330A180	E 33UF, 16V	
C2354	ECA1EM222E	E 2200UF, 25V	
C2355	ECJ2VC1H102J	C 1000PF, J, 50V	
C2356	F1J1H104A578	C 0.1UF, 50V	
C2357	F1J1H104A578	C 0.1UF, 50V	
C2360	ECA1HM4R7B	E 4.7UF, 50V	
C253	ECEA1HN2R2U	E 2.2UF, 50V	
C254	ECJ2VB1H102J	C 1000PF, 50V	
C257	ECEA1HN2R2U	E 2.2UF, 50V	
C258	ECJ2VB1H102J	C 1000PF, 50V	
C3001	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3005	F1J1H222A721	C 2200PF, 50V	
C301	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3012	F1J1H222A721	C 2200PF, 50V	
C3015	ECUX1H101JCX	C 100PF, J, 50V	
C3016	F1J1H222A721	C 2200PF, 50V	
C3017	ECUX1H101JCX	C 100PF, J, 50V	
C3018	F1J1H222A721	C 2200PF, 50V	
C3019	F1J1H222A721	C 2200PF, 50V	
C302	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3021	F2A1H2R2A118	E 2.2UF, 50V	
C3022	F2A1H2R2A118	E 2.2UF, 50V	
C3023	F2A1H2R2A118	E 2.2UF, 50V	
C3024	F2A1H2R2A118	E 2.2UF, 50V	
C3025	F2A1H2R2A118	E 2.2UF, 50V	
C3026	F1J1H222A721	C 2200PF, 50V	
C3027	F2A1H2R2A118	E 2.2UF, 50V	
C303	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3030	ECA1CM470B	E 47UF, 16V	
C3031	ECJ2VF1C104Z	C 0.1UF, Z, 16V	
C3034	F2A1C471A116	E 470UF, 16V	
C3036	ECUX1H101JCX	C 100PF, J, 50V	
C3037	ECUX1H101JCX	C 100PF, J, 50V	
C3038	ECUX1H101JCX	C 100PF, J, 50V	
C3039	ECUX1H101JCX	C 100PF, J, 50V	
C304	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C305	ECA1CM100B	E 10UF, 16V	
C306	ECJ2VC1H102J	C 1000PF, J, 50V	
C307	ECJ2VC1H102J	C 1000PF, J, 50V	
C308	ECJ2VC1H102J	C 1000PF, J, 50V	
C3141	F2A1C330A180	E 33UF, 50V	
C3142	F2A1C330A180	E 33UF, 50V	
C3143	ECJ2VC1H561J	C 560PF, J, 50V	
C3144	ECJ2VC1H561J	C 560PF, J, 50V	
C3145	ECJ2VC1H561J	C 560PF, J, 50V	
C3146	ECJ2VC1H561J	C 560PF, J, 50V	
C3147	ECJ2VB1H103K	C 0.01UF, K, 50V	
C3148	ECJ2VB1H103K	C 0.01UF, K, 50V	
C3150	F2A1H2R2A118	E 2.2UF, 50V	
C3151	F2A1H2R2A118	E 2.2UF, 50V	
C3152	ECUX1H101JCX	C 100PF, J, 50V	
C3153	ECUX1H101JCX	C 100PF, J, 50V	
C3155	ECJ2VB1H103K	C 0.01UF, K, 50V	
C354	ECQE2104KF	P 0.1UF, K, 250V	
C355	ECQM4153JZ	P 0.015UF, J, 400V	
C356	ECJ2VC1H102J	C 1000PF, J, 50V	
C360	ECKW3D152KBP	C 1500PF, K, 2KV	
C363	ECA1HM221B	E 220UF, 50V	
C368	ECA2EM100B	E 10UF, 250V	
C370	ECJ2VF1H222Z	C 2200PF, Z, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C371	ECJ2VF1H222Z	C 2200PF, Z, 50V	
C372	ECJ2VF1H222Z	C 2200PF, Z, 50V	
C375	ECQM4153JZ	P 0.015UF, J, 400V	
C401	ECJ2VC1H560J	C 56PF, J, 50V	
C404	ECQB1333JF	P 0.033UF, J, 100V	
C406	ECA1HHG221	E 220UF, 50V	
C407	ECJ2VC1H560J	C 56PF, J, 50V	
C408	ECQB1154JF	P 0.15UF, J, 100V	
C454	ECQV1H154JM	P 0.15UF, J, 50V	
C502	ECKR3A182KBP	C 1800PF, K, 1KV	
C503	ECKR3A182KBP	C 1800PF, K, 1KV	
C504	ECJ2VB1H681K	C 680PF, K, 50V	
C507	ECJ2VF1C105Z	C 1UF, Z, 16V	
C511	ECA1VM101B	E 100UF, 35V	
C512	F1B2H471A025	C 470PF, 500V	
C513	F1B2H331A025	C 470PF, 500V	
C514	F2A1E102A151	E 1000UF, 25V	
C515	F1B2H331A025	C 330PF, 500V	
C516	F2A1E102A151	E 1000UF, 25V	
C519	F2A2C2210013	E 220UF, 160V	
C520	ECA0JM221B	E 220UF, 6.3V	
C550	ECQM4223JZ	P 0.022UF, J, 400V	
C552	F2A2E100A025	E 10UF, 250V	
C554	F0C2E224A039	P 0.22UF, 250V	
C555	ECQE2824KF	P 0.82UF, K, 250V	
C559	ECWH20752JVB	P 7500PF, 2kV	
C560	ECQM4393JZ	P 0.039UF, J, 400V	
C561	ECKW3D271JBR	C 270PF, 2KV	
C562	ERD25T0V	CARBON FILM RESISTOR	
C564	F2A2A2R2A042	E 2.2UF, 100V	
C565	ECQB1H273JF	P 0.027UF, J, 50V	
C566	ECQM4153JZ	P 0.015UF, J, 400V	
C567	ECQM4683JZ	P 0.068UF, J, 400V	
C568	ECWH20102JVY	P 1000PF, J, 2KV	
C580	F1B2H102A022	C 1000PF, 500V	
C601	ECJ2VB1H183K	C 0.018UF, K, 50V	
C602	ECJ2VB1H222K	C 2200PF, K, 50V	
C603	F1J1H104A578	C 0.1UF, 50V	
C604	ECA1CM101B	E 100UF, 16V	
C605	F1J1H104A578	C 0.1UF, 50V	
C606	F1J1H104A578	C 0.1UF, 50V	
C607	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C610	F1J1H104A578	C 0.1UF, 50V	
C611	F1J1H104A578	C 0.1UF, 50V	
C612	F1J1H104A578	C 0.1UF, 50V	
C613	F1J1H104A578	C 0.1UF, 50V	
C614	ECJ2VC1H080C	C 8PF, 50V	
C615	ECJ2VC1H080C	C 8PF, 50V	
C616	ECA1CM101B	E 100UF, 16V	
C618	ECA1CM101B	E 100UF, 16V	
C619	ECA1CM101B	E 100UF, 16V	
C620	ECJ2VF1H223Z	C 0.022UF, Z, 50V	
C622	ECA1CM101B	E 100UF, 16V	
C623	ECA1CM101B	E 100UF, 16V	
C626	ECA1CM102B	E 1000UF, 16V	
C627	ECA1CM101B	E 100UF, 16V	
C628	ECA1CM101B	E 100UF, 16V	
C630	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C631	ECJ2VF1H223Z	C 0.022UF, Z, 50V	
C632	ECA1HM4R7B	E 4.7UF, 50V	
C633	ECJ2VC1H471J	C 470PF, J, 50V	
C634	ECJ2VC1H471J	C 470PF, J, 50V	
C635	ECA1CM102B	E 1000UF, 16V	
C637	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C638	F1J1H104A578	C 0.1UF, 50V	
C639	F1J1H104A578	C 0.1UF, 50V	
C640	F1J1H104A578	C 0.1UF, 50V	
C641	F1J1H104A578	C 0.1UF, 50V	
C642	F1J1H104A578	C 0.1UF, 50V	
C644	F1J1H104A578	C 0.1UF, 50V	
C645	F1J1H104A578	C 0.1UF, 50V	
C646	F1J1H104A578	C 0.1UF, 50V	
C648	F1J1H104A578	C 0.1UF, 50V	
C649	F1J1H104A578	C 0.1UF, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C650	F2A1C101A159	E 100UF, 16V	
C652	F1J1H104A578	C 0.1UF, 50V	
C654	F1J1H104A578	C 0.1UF, 50V	
C655	F1J1H104A578	C 0.1UF, 50V	
C656	ECA1CM100B	E 10UF, 16V	
C657	ECJ2VF1C105Z	C 1UF, Z, 16V	
C658	ECJ2VF1C105Z	C 1UF, Z, 16V	
C659	F1J1H104A578	C 0.1UF, 50V	
C660	ECJ2VF1E104Z	C 0.1UF, Z, 25V	
C662	ECJ2VF1C105Z	C 1UF, Z, 16V	
C663	ECA1CM100B	E 10UF, 16V	
C664	ECJ2VF1C105Z	C 1UF, Z, 16V	
C805	ECQB1H103JF	P 0.01UF, 50V	
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	F2B2G3310013	E 330UF, 400V	
C811	ECQM4473JZ	P 0.047UF, J, 400V	
C815	ECKW3D151KBR	C 150PF, 2KV	
C816	ECA1HHG100	E 10UF, 50V	
C819	ECA1HM010B	E 1UF, 50V	
C821	ECKW3D681KBP	C 680PF, K, 2KV	
C825	ECQB1H471JF	P 470PF, J, 50V	
C826	ECQB1H103JF	P 0.01UF, 50V	
C827	ECQB1H683JF	P 0.068UF, J, 50V	
C828	ECKCNA471MB7	C 470PF, M,	
C829	ECKCNA471MB7	C 470PF, M,	
C830	ECQB1H821KF	P 820PF, 50V	
C835	ECKCNA472ME7	C 4700PF, M,	
C837	ECKCNA152ME7	C 1500PF, M,	
C838	ECQU2A224BN9	P 0.22UF, 250V	
C839	ECQU2A224BN9	P 0.22UF, 250V	
C840	ECKCNA152ME7	C 1500PF, M,	
C843	F2A1E222A224	E 2200UF, 25V	
C846	F1B2H471A025	C 470PF, 500V	
C847	F2A1E222A224	E 2200UF, 25V	
C849	F1B2H471A025	C 470PF, 500V	
C852	ECUX1H104KBX	C 0.1UF, K, 50V	
C860	ECUX1H104KBX	C 0.1UF, K, 50V	
C866	ECKW3D821KBP	C 820PF, K, 2KV	
C867	F2A2C2210013	E 220UF, 160V	
C870	F2A1C472A260	E 4700UF, 16V	
C871	F1B2H471A025	C 470PF, 500V	
C872	F2A1C471A251	E 4700UF, 16V	
C873	F1B2H471A025	C 470PF, 500V	
C878	ECA1CM100B	E 10UF, 16V	
C879	ECEA0JKA331	E 330UF, 6.3V	
C881	F1J1H104A717	C 0.1UF, 50V	
C883	ECUX1H104KBX	C 0.1UF, K, 50V	
C884	F2A1A2220036	E 2200UF, 10V	
C885	ECA1CM471B	E 470UF, 16V	
C886	ECA1HM330B	E 33UF, 50V	
C887	ECA1CM102B	E 1000UF, 16V	
C888	ECUX1H104KBX	C 0.1UF, K, 50V	
C889	ECA1CM221B	E 220UF, 16V	
C891	ECA1CM101B	E 100UF, 16V	
C893	ECA1CM221B	E 220UF, 16V	
C898	ECUX1H104KBX	C 0.1UF, K, 50V	
C904	F1B1H103A013	C 0.01UF, 50V	
C912	F1J1H104A578	C 0.1UF, 50V	
C952	ECA1HHG100	E 10UF, 50V	
C953	F1B1H103A013	C 0.01UF, 50V	
C958	ECA2CM470B	E 47UF, 160V	
C959	ECKW2H103ZF7	C 0.01UF, Z, 500V	
C960	F1A2H151A035	C 150PF, 500V	
C961	F2A2A1000016	C 10PF, 100V	
C962	ECKW2H103ZF7	C 0.01UF, Z, 500V	
C963	F1A2H151A035	C 150PF, 500V	
C964	ECA1CHG101	E 100UF, 16V	
C965	ECA2CM220B	E 22UF, 160V	
C966	ECA1CHG101	E 100UF, 16V	
C967	ECA1CM221B	E 220UF, 16V	
	DIODES		

Ref. No.	Part No.	Part Name & Description	Remarks
D1061	B3AGA0000089	DIODE	
D1132	MTZJ3.9A	ZENER DIODE	
D2103	MA723	DIODE	
D2104	MA723	DIODE	
D2107	B0AACK000004	DIODE	
D2108	B0AACK000004	DIODE	
D3141	MTZJ8.2C	ZENER DIODE	
D3142	MTZJ8.2C	ZENER DIODE	
D354	ERA22-04	DIODE	
D355	ERA22-04	DIODE	
D356	ERA22-04	DIODE	
D361	B0AACK000004	DIODE	
D362	B0AACK000004	DIODE	
D363	B0AACK000004	DIODE	
D364	B0AACK000004	DIODE	
D365	B0AACK000004	DIODE	
D366	B0AACK000004	DIODE	
D367	B0AACK000004	DIODE	
D402	AG01Z	DIODE	
D503	B0AACK000004	DIODE	
D504	B0AACK000004	DIODE	
D507	B0ACEJ000004	DIODE	
D511	MA4108J	DIODE	
D512	AG01Z	DIODE	
D513	EU02	DIODE	
D515	EU02	DIODE	
D520	B0ACQJ000002	DIODE	
D552	EU02	DIODE	
D556	ERB06-15	DIODE	
D557	B0HAMQ000001	DIODE	
D558	MA185	DIODE	
D580	MA4047M	DIODE	
D581	AG01Z	DIODE	
D583	B0AACK000004	DIODE	
D601	B0ADCJ000015	DIODE	
D604	B0ACEJ000004	DIODE	
D803	B0EBNT000007	DIODE	
D810	B0EAKT000018	DIODE	
D817	AG01Z	DIODE	
D820	MAZ20820A0LS	DIODE	
D821	MAZ20820A0LS	DIODE	
D823	B0AACK000004	DIODE	
D824	B0AACK000004	DIODE	
D825	MTZJ6.8C	ZENER DIODE	
D830	AG01Z	DIODE	
D831	B0BA02700022	DIODE	
D835	ERZV10V621CS	VARISTOR	△
D841	B0ACCK000005	DIODE	
D845	FMLG12S	DIODE	
D848	FMLG12S	DIODE	
D862	MTZJ3.6A	ZENER DIODE	
D863	AG01Z	DIODE	
D865	MTZJ3.6A	ZENER DIODE	
D866	FMGG2CSLF665	DIODE	
D867	B0AACK000004	DIODE	
D868	B0AACK000004	DIODE	
D871	B0AACK000004	DIODE	
D872	B0GACN000002	DIODE	
D878	B0AACK000004	DIODE	
D879	B0AACK000004	DIODE	
D881	MTZJ16A	ZENER DIODE	
D882	MTZJ16A	ZENER DIODE	
D883	B0JAPK000013	DIODE	
	INTEDGRATED CIRCUITS		
IC1101	TVR4GAS351	EEPROM IC	
IC2301	C1BA00000375	IC	
IC2302	LA44403	IC	
IC2320	C1AB00001340	IC	
IC2321	C1AB00001340	IC	
IC351	TDA6108JF/N1	IC	
IC451	AN15525A	IC	
IC601	TVR4G9-7	FLASH MEMORY IC	
IC603	MN13812-JTA	MOS IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC604	C1AB00001992	IC	
IC801	C5HABZZ00120	IC, POWER SUPPLY	△
IC802	C0EAS0000026	IC	
IC851	C0DAAHF00005	IC, POWER SUPPLY	△
IC855	C0DBZGB00017	IC, POWER SUPPLY	△
IC857	C0DBAGD00034	IC, POWER SUPPLY	△
IC860	B3PAA0000261	PHOTO COUPLER	△
	COILS		
L002	G0C100K00008	COIL	
L101	G0CR68KA0030	PEAKING COIL	
L102	TALV35VB8R2K	PEAKING COIL	
L1061	G0C331KA0007	PEAKING COIL	
L1101	EXCELSA35V	COIL	
L2301	J0JKA0000038	BEAD CORE	
L2302	J0JKA0000038	BEAD CORE	
L2303	TLTACT100K	PEAKING COIL 10U	
L2304	J0JKA0000038	BEAD CORE	
L2305	J0JKA0000038	BEAD CORE	
L2306	J0JKA0000038	BEAD CORE	
L2307	EXCELSA35V	COIL	
L2323	J0JKA0000038	BEAD CORE	
L2324	J0JKA0000038	BEAD CORE	
L2337	G0C102JA0021	COIL	
L2350	J0JKA0000038	BEAD CORE	
L2353	J0JKA0000038	BEAD CORE	
L300	TALV35VB8R2K	PEAKING COIL	
L3001	J0JKB0000034	EMI FILTER	
L301	TLTACT4R7K	PEAKING COIL	
L3030	TLTACT100J	PEAKING COIL	
L3142	G0C6R8JA0021	COIL	
L3143	G0C6R8JA0021	COIL	
L3150	J0JKB0000034	EMI FILTER	
L412	J0JKA0000024	EMI FILTER	
L502	J0JKA0000038	BEAD CORE	
L550	EXCELD35V	CORE	
L554	G0A682AA0006	PEAKING COIL	
L557	ELH5L4152	LINEARITY COIL	
L560	EXCELD35V	CORE	
L561	EXCELD35V	CORE	
L601	TLTACT100K	PEAKING COIL 10U	
L602	TLTACT100K	PEAKING COIL 10U	
L603	TLTACT100K	PEAKING COIL 10U	
L604	TLTACT100K	PEAKING COIL 10U	
L605	TLTACT100K	PEAKING COIL 10U	
L606	TLTACT100K	PEAKING COIL 10U	
L607	G0A3R3HA0011	CHOKE COIL	
L608	TLTACT4R7J	PEAKING COIL	
L609	TLTACT100K	PEAKING COIL 10U	
L610	TALV35VB8R2K	PEAKING COIL	
L611	TLTACT100K	PEAKING COIL 10U	
L620	J0JKA0000038	BEAD CORE	
L621	J0JKA0000038	BEAD CORE	
L622	J0JKA0000038	BEAD CORE	
L625	J0JKA0000038	BEAD CORE	
L820	J0JKA0000025	BEAD CORE	
L841	J0JKA0000038	BEAD CORE	
L865	J0JKA0000025	BEAD CORE	
L866	J0JKA0000023	BEAD CORE	
L867	EXCELD35C	BEAD CORE	
L893	G0C100K00008	COIL	
L894	G0C100K00008	COIL	
L951	EXCELSA24T	BEAD CORE	
L953	EXCELSA24T	BEAD CORE	
L954	EXCELSA24T	BEAD CORE	
L955	EXCELSA24T	BEAD CORE	
	TRANSISTORS		
Q101	2SC2480TX	TRANSISTOR	
Q1060	B1ADCF000077	TRANSISTOR	
Q1061	B1ADCF000077	TRANSISTOR	
Q1062	2SD0601A0L	TRANSISTOR	
Q2101	B1ADCF000077	TRANSISTOR	
Q2301	2SD0601A0L	TRANSISTOR	
Q2302	B1ADCF000077	TRANSISTOR	
Q2303	2SD0601A0L	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q2304	B1ADCF000077	TRANSISTOR	
Q2305	B1ADCF000077	TRANSISTOR	
Q2360	2SD0601A0L	TRANSISTOR	
Q301	XN0450100L	TRANSISTOR	
Q302	XN0450100L	TRANSISTOR	
Q303	XN0450100L	TRANSISTOR	
Q3030	B1ADCF000077	TRANSISTOR	
Q3031	B1ADCF000077	TRANSISTOR	
Q3032	B1ADCF000077	TRANSISTOR	
Q304	B1ADCF000077	TRANSISTOR	
Q305	B1ADCF000077	TRANSISTOR	
Q306	B1ADCF000077	TRANSISTOR	
Q354	B1ADCF000077	TRANSISTOR	
Q360	2SA17670Q	TRANSISTOR	
Q361	2SA17670Q	TRANSISTOR	
Q362	2SA17670Q	TRANSISTOR	
Q501	2SC4212H	TRANSISTOR	
Q520	2SB0792A0L	TRANSISTOR	
Q551	2SC5902000LK	TRANSISTOR	
Q581	B1ADCF000077	TRANSISTOR	
Q601	2SD0601A0L	TRANSISTOR	
Q602	2SD0601A0L	TRANSISTOR	
Q603	2SD0601A0L	TRANSISTOR	
Q604	2SD0601A0L	TRANSISTOR	
Q605	2SD0601A0L	TRANSISTOR	
Q608	2SD0601A0L	TRANSISTOR	
Q610	B1ADCF000077	TRANSISTOR	
Q660	XN0450100L	TRANSISTOR	
Q841	B1ABCF000106	TRANSISTOR	
Q842	B1ABCF000106	TRANSISTOR	
Q850	B1BCCM000002	TRANSISTOR	
Q853	2SD0601A0L	TRANSISTOR	
Q857	2SC54190QA	TRANSISTOR	
Q871	B1ADCF000077	TRANSISTOR	
Q945	2SD0601A0L	TRANSISTOR	
Q953	2SC1318	TRANSISTOR	
Q954	2SB1030A	TRANSISTOR	
Q955	2SA21400PSLB	TRANSISTOR	
Q956	2SC59930PSLB	TRANSISTOR	
Q957	B1ADCF000077	TRANSISTOR	
Q958	2SD0601A0L	TRANSISTOR	
	RESISTORS		
R001	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R002	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R003	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R005	ERJ6GEYJ512	M 5.1KOHM, J, 1/10W	
R006	ERJ6GEYJ473	M 47KOHM, J, 1/10W	
R007	ERJ6GEYJ682	M 6.8KOHM, J, 1/10W	
R008	ERJ6GEY0R00	M 00HM, J, 1/10W	
R101	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R102	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R1026	ERJ6ENF2211	F 2.2KOHM, 1/10W	
R1027	ERJ6ENF3241	M3.24KOHM, 1/10W	
R1028	ERJ6ENF5111	F 5.11KOHM, 1/10W	
R1029	ERJ6ENF9091	M9.09KOHM, 1/10W	
R103	ERJ6GEYJ201	F 2000HM, J, 1/10W	
R1030	ERJ6ENF2152	M21.5KOHM, 1/10W	
R1031	ERJ6ENF2321	F 2.32KOHM, 1/10W	
R104	ERJ6GEYJ121	M 1200HM, J, 1/10W	
R1061	ERJ6GEYJ121	M 1200HM, J, 1/10W	
R1062	ERDS2TJ102	C 1KOHM, J, 1/4W	
R1063	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	
R1064	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1065	ERJ6GEYJ121	M 1200HM, J, 1/10W	
R1066	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	
R1068	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R107	ERJ6GEYJ202	M 2KOHM, J, 1/10W	
R108	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1105	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1106	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1108	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1109	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R1112	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1114	ERJ6GEYJ101	M 1000HM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1115	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R1116	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1123	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1124	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1126	ERDS2TJ101	C 1000HM, J, 1/4W	
R1131	ERJ6GEYJ220	M 220HM, J, 1/10W	
R1132	ERJ6GEYJ220	M 220HM, J, 1/10W	
R1140	ERJ6ENF1002	M 10KOHM, 1/10W	
R1142	ERJ6ENF1001	M 1KOHM, 1/10W	
R1201	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1202	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R1203	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1204	ERJ6GEY0R00	M 00HM, J, 1/10W	
R1228	ERJ6GEYJ220	M 220HM, J, 1/10W	
R1229	ERJ6GEYJ220	M 220HM, J, 1/10W	
R2110	ERJ6GEY0R00	M 00HM, J, 1/10W	
R2112	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R2113	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	
R2302	ERX2FJSR22E	M 0.220HM, 2W	
R2304	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R2305	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R2306	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R2307	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	
R2308	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R2309	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R2310	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R2311	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R2312	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R2315	ERJ6GEYJ513	M 51KOHM, J, 1/10W	
R2318	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R2319	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R2321	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
R2322	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
R2325	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R2326	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R2328	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R2329	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R2330	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R2332	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R2350	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R2351	ERDS2TJ2R2	C 2.20HM, J, 1/4W	
R2360	ERJ6GEY0R00	M 00HM, J, 1/10W	
R2361	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R253	ERJ6GEYJ751	M 7500HM, J, 1/10W	
R255	ERJ6GEYJ751	M 7500HM, J, 1/10W	
R256	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R257	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R3002	ERJ6GEYJ750	M 750HM, 1/10W	
R3003	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R3004	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R3005	ERJ6GEYJ750	M 750HM, 1/10W	
R3006	ERJ6GEYJ750	M 750HM, 1/10W	
R3007	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R3008	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R3009	ERJ6GEYJ750	M 750HM, 1/10W	
R301	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R3010	ERJ6GEYJ750	M 750HM, 1/10W	
R3011	ERJ6GEYJ750	M 750HM, 1/10W	
R3012	ERJ6GEYJ750	M 750HM, 1/10W	
R3013	ERJ6GEYJ750	M 750HM, 1/10W	
R3014	ERJ6GEYJ750	M 750HM, 1/10W	
R3015	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R3016	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R3017	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3018	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3019	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R302	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R3020	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R3021	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R3022	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R3023	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R3024	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R3025	ERJ6GEYJ750	M 750HM, 1/10W	
R3026	ERJ6GEYJ103	M 10KOHM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R303	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R3031	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R3039	ERJ6GEYJ681	M 6800HM, J, 1/10W	
R304	ERJ6GEYJ240	F 240HM, J, 1/10W	
R3040	ERJ6GEYJ681	M 6800HM, J, 1/10W	
R305	ERJ6GEYJ240	F 240HM, J, 1/10W	
R306	ERJ6GEYJ240	F 240HM, J, 1/10W	
R307	ERJ6GEYJ681	M 6800HM, J, 1/10W	
R308	ERJ6GEYJ681	M 6800HM, J, 1/10W	
R309	ERJ6GEYJ681	M 6800HM, J, 1/10W	
R310	D0AE181JA046	C 1800HM, J, 1/4W	
R3101	ERDS2TJ470	C 470HM, J, 1/4W	
R3102	ERDS2TJ470	C 470HM, J, 1/4W	
R311	D0AE181JA046	C 1800HM, J, 1/4W	
R312	D0AE181JA046	C 1800HM, J, 1/4W	
R3140	ERJ6GEY0R00	M 00HM, J, 1/10W	
R3142	ERJ6GEYJ331	M 3300HM, J, 1/10W	
R3144	ERJ6GEYJ331	M 3300HM, J, 1/10W	
R3152	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R3153	ERJ6GEYJ153	M 15KOHM, J, 1/10W	
R317	ERJ6GEYJ151	M 1500HM, J, 1/10W	
R318	ERJ6GEYJ151	M 1500HM, J, 1/10W	
R319	ERJ6GEYJ151	M 1500HM, J, 1/10W	
R3247	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R3250	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R347	ERJ6GEY0R00	M 00HM, J, 1/10W	
R348	ERJ6GEY0R00	M 00HM, J, 1/10W	
R349	ERJ6GEY0R00	M 00HM, J, 1/10W	
R351	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R352	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R353	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R363	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R364	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R365	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R366	ERDS1TJ152	C 1.5KOHM, J, 1/2W	
R367	ERDS1TJ152	C 1.5KOHM, J, 1/2W	
R368	ERDS1TJ152	C 1.5KOHM, J, 1/2W	
R369	ERJ6GEY0R00	M 00HM, J, 1/10W	
R372	ERQ12AJ121P	F 1200HM, J, 1/2W	
R381	ERJ6GEYJ822	M 8.2KOHM, J, 1/10W	
R385	ERJ6GEY0R00	M 00HM, J, 1/10W	
R401	ERDS2TJ104	C 100KOHM, J, 1/4W	
R403	ERJ6GEYJ563	M 56KOHM, J, 1/10W	
R404	ERJ6GEYJ183	M 18KOHM, J, 1/10W	
R405	ERJ6GEYJ563	M 56KOHM, J, 1/10W	
R406	ERDS1TJ1R5	C 1.50HM, J, 1/2W	
R407	ERDS1TJ221	C 2200HM, J, 1/2W	
R413	ERJ6GEYJ183	M 18KOHM, J, 1/10W	
R416	ERDS1TJ2R2	C 2.20HM, J, 1/2W	
R417	ERDS1TJ2R2	C 2.20HM, J, 1/2W	
R451	ERJ6GEYJ223	M 22KOHM, J, 1/10W	
R453	ERJ6GEY0R00	M 00HM, J, 1/10W	
R501	ERJ6GEYJ273	M 27KOHM, J, 1/10W	
R502	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R504	ERG2SJS332H	M 3.3KOHM, J, 2W	
R507	ERJ6GEYJ561	M 5600HM, J, 1/10W	
R508	ERG3FJ152H	M 1.5KOHM, J, 3W	
R509	ERG3FJ182H	M 1.8KOHM, J, 3W	
R511	ERJ6ENF1002	M 10KOHM, 1/10W	
R512	ERJ6ENF1152	M 11.5KOHM, 1/10W	
R513	ERQ14AJ100P	F 100HM, J, 1/4W	
R514	ERX12SJR56P	M 0.560HM, 1/2W	
R515	ERX12SJR56P	M 0.560HM, 1/2W	
R518	D0DK5R6JA019	W 5.60HM, 10W	
R522	ERJ6GEYJ623	F 62KOHM, J, 1/4W	
R523	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R524	ERJ6GEYJ104	M 100KOHM, J, 1/10W	
R525	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	
R551	ERQ1CJP151S	F 1500HM, J, 1/4W	
R552	ERG1SJ102P	M 1KOHM, J, 1W	
R553	ERJ6GEYJ183	M 18KOHM, J, 1/10W	
R555	ERQ14AJ2R0E	F 2.00HM, J, 1/4W	
R557	ER050CHF6802	M 680HM, 1/2W	
R559	ERQ1CJP2R2S	M 2.20HM, J, 1W	

Ref. No.	Part No.	Part Name & Description	Remarks
R580	ERJ6GEYJ392	M 3.9KOHM, J, 1/10W	
R581	ERJ6GEYJ563	M 56KOHM, J, 1/10W	
R585	ERJ6GEY0R00	M 00HM, J, 1/10W	
R592	ERJ6GEYJ222	M 2.2KOHM, J, 1/10W	
R593	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R602	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R603	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R606	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
R607	ERJ6GEYJ752	M 7.5KOHM, J, 1/10W	
R609	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R610	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R611	ERJ6GEYJ101	M 1000HM, J, 1/10W	
R612	ERJ6GEY0R00	M 00HM, J, 1/10W	
R614	ERJ6GEYJ221	M 2200HM, J, 1/10W	
R615	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	
R616	ERJ6GEYJ563	M 56KOHM, J, 1/10W	
R619	ERJ6GEYJ332	M 3.3KOHM, J, 1/10W	
R620	ERJ6ENF1002	M 10KOHM, 1/10W	
R621	ERJ6ENF2002	M 20KOHM, 1/10W	
R623	ERJ6ENF1052	F 10.5KOHM, J, 1/4W	
R624	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R625	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R626	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R627	ERDS2TJ511	C 5100HM, J, 1/2W	
R628	ERJ6GEYJ823	M 82KOHM, J, 1/10W	
R629	ERJ6GEY0R00	M 00HM, J, 1/10W	
R631	ERJ6GEYJ152	M 1.5KOHM, J, 1/10W	
R632	ERJ6GEYJ562	M 5.6KOHM, J, 1/10W	
R634	ERJ6GEYJ151	M 1500HM, J, 1/10W	
R635	ERJ6GEYJ151	M 1500HM, J, 1/10W	
R637	ERJ6ENF1052	F 10.5KOHM, J, 1/4W	
R638	ERJ6ENF1002	M 10KOHM, 1/10W	
R640	ERJ6GEYJ471	M 4700HM, J, 1/10W	
R642	ERJ6GEYJ750	M 750HM, 1/10W	
R643	ERJ6GEYJ750	M 750HM, 1/10W	
R644	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R645	ERJ6GEYJ122	M 1.2KOHM, J, 1/10W	
R646	ERJ6GEYJ183	M 18KOHM, J, 1/10W	
R647	ERJ6GEYJ750	M 750HM, 1/10W	
R648	ERJ6GEY0R00	M 00HM, J, 1/10W	
R649	ERJ6GEY0R00	M 00HM, J, 1/10W	
R655	ERJ6GEYJ102	M 1KOHM, J, 1/10W	
R656	ERJ6GEYJ561	M 5600HM, J, 1/10W	
R657	ERJ6GEYJ272	M 2.7KOHM, J, 1/10W	
R661	ERJ6GEYJ221	M 2200HM, J, 1/10W	
R662	ERJ6GEYJ221	M 2200HM, J, 1/10W	
R663	ERJ6GEYJ221	M 2200HM, J, 1/10W	
R664	ERJ6GEYJ470	M 470HM, J, 1/10W	
R665	ERJ6GEYJ470	M 470HM, J, 1/10W	
R701	ERJ6GEYJ103	M 10KOHM, J, 1/10W	
R801	ERF7ZK2R2	W 2.20HM, 7W	△
R810	ERG2FJ470H	M 470HM, J, 2W	
R811	ERG2SJS104H	M 100KOHM, J, 2W	
R817	ERG1SJ100P	M 100HM, J, 1W	
R819	ERDS2TJ473	C 47KOHM, J, 1/4W	
R820	ERX12SJR27E	M 0.270HM, J, 1/2W	
R821	ERX12SJR27E	M 0.270HM, J, 1/2W	
R822	ERG2FJ683H	M 680HM, J, 2W	
R824	ERDS2TJ152	C 1.5KOHM, J, 1/4W	
R825	ERDS2TJ102	C 1KOHM, J, 1/4W	
R830	ERDS2TJ181	C 1800HM, J, 1/4W	
R831	ERDS2TJ243	C 24KOHM, J, 1/4W	
R837	ERG2FJ100H	M 100HM, J, 2W	
R840	ERD75TAJ825	C 8.20HM, J, 3/4W	
R842	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R843	ERJ6GEY0R00	M 00HM, J, 1/10W	
R844	ERJ6GEY0R00	M 00HM, J, 1/10W	
R845	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R846	ERJ6GEYJ470	M 470HM, J, 1/10W	
R849	ERJ6GEYJ472	M 4.7KOHM, J, 1/10W	
R850	ERG3SJS470H	M 470HM, J, 1/10W	
R851	ERDS2TJ104	C 100KOHM, J, 1/4W	
R852	ERDS2TJ472	C 4.7KOHM, J, 1/4W	
R854	ERJ6GEYJ103	M 10KOHM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R855	ERJ66EYJ222	M 2.2KOHM, J, 1/10W	
R863	ERDS2TJ221	C 220OHM, J, 1/4W	
R864	ERJ66EYJ103	M 10KOHM, J, 1/10W	
R866	ERJ66EYJ472	M 4.7KOHM, J, 1/10W	
R867	ERDS1TJ622	C 6.2KOHM, J, 1/2W	
R868	ERDS1TJ221	C 220OHM, J, 1/2W	
R882	ERJ66EYJ103	M 10KOHM, J, 1/10W	
R883	ERX3FJ4R7H	M 4.7OHM, J, 3W	
R884	ERJ66EYJ433	M 43KOHM, J, 1/10W	
R886	ERJ66EYJ752	M 7.5KOHM, J, 1/10W	
R887	ERG1SJ273P	M 27KOHM, J, 1W	
R888	ERDS2TJ682	C 6.8KOHM, J, 1/4W	
R918	ERQ1CJP331S	F 330OHM, J, 1W	
R952	ERJ66EYJ183	M 18KOHM, J, 1/10W	
R953	ERJ66EYJ562	M 5.6KOHM, J, 1/10W	
R954	ERJ66EYJ221	M 220OHM, J, 1/10W	
R956	ERJ66EYJ620	F 620OHM, J, 1W	
R958	ERJ66EYJ391	M 390OHM, J, 1/10W	
R960	ERQ14AJ100E	F 100OHM, J, 1/4W	
R962	ERJ66EYJ330	M 330OHM, J, 1/10W	
R963	ERDS2TJ330	C 330OHM, J, 1/4W	
R964	ERQ14AJ471E	F 470OHM, J, 1/4W	
R965	ERJ66EYJ223	M 22KOHM, J, 1/10W	
R966	ERG2SJ471E	M 470OHM, J, 2W	
R967	ERDS2TJ223	C 22KOHM, J, 1/4W	
R968	ERDS2TJ471	C 470OHM, J, 1/4W	
R969	ERDS2TJ390	C 390OHM, J, 1/4W	
R970	ERDS2TJ2R7	C 2.7OHM, J, 1/4W	
R971	ERDS2TJ2R7	C 2.7OHM, J, 1/4W	
R972	ERDS2TJ390	C 390OHM, J, 1/4W	
R973	ERDS2TJ101	C 100OHM, J, 1/4W	
R975	ERJ66EYJ101	M 100OHM, J, 1/10W	
R976	ERJ66EYJ101	M 100OHM, J, 1/10W	
R977	ERJ66EYJ561	M 560OHM, J, 1/10W	
R978	ERJ66EYJ101	M 100OHM, J, 1/10W	
	TRANSFORMRES		
T551	ZTFN82010A	FLYBACK TRANS	△
T553	ETH19Y210AZ	H DRIVE TRANS	△
T801	G4D3Z0000007	SWITCHING TRANS	△
	OTHERS		
CF836	TAP4GA0009	POSISTOR	
D1	K1KA13A00140	CONNECTOR	
D2	K1KA13A00140	CONNECTOR	
D5	K1KA13A00138	CONNECTOR	
D7	TJSF29207	CONNECTOR	
D13	K1KA13A00140	CONNECTOR	
D16	TJS118590	2P CONNECTOR	
D17	K1KA13A00138	CONNECTOR	
D18	K1KA13A00140	CONNECTOR	
DL101	J0C3525A0001	DELAY LINE	
F840	XBA2C40TR0	FUSE 250V 4A	△
G1	K1KA13A00140	CONNECTOR	
G13	K1KA13A00140	CONNECTOR	
G17	K1KA13A00138	CONNECTOR	
G18	K1KA13A00140	CONNECTOR	
G4	TJS3A9650	4P CONNECTOR	
JA10	ERJ66EY0R00	M 00HM, J, 1/10W	
JA11	ERJ66EY0R00	M 00HM, J, 1/10W	
JA13	ERJ66EY0R00	M 00HM, J, 1/10W	
JA14	ERJ66EY0R00	M 00HM, J, 1/10W	
JA15	ERJ66EY0R00	M 00HM, J, 1/10W	
JA16	ERJ66EY0R00	M 00HM, J, 1/10W	
JA17	ERJ66EY0R00	M 00HM, J, 1/10W	
JA18	ERJ66EY0R00	M 00HM, J, 1/10W	
JA19	ERJ66EY0R00	M 00HM, J, 1/10W	
JA2	ERJ66EY0R00	M 00HM, J, 1/10W	
JA20	ERJ66EY0R00	M 00HM, J, 1/10W	
JA21	ERJ66EY0R00	M 00HM, J, 1/10W	
JA22	ERJ66EY0R00	M 00HM, J, 1/10W	
JA23	ERJ66EY0R00	M 00HM, J, 1/10W	
JA24	ERJ66EY0R00	M 00HM, J, 1/10W	
JA25	ERJ66EY0R00	M 00HM, J, 1/10W	
JA26	ERJ66EY0R00	M 00HM, J, 1/10W	
JA27	ERJ66EY0R00	M 00HM, J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
JA28	ERJ66EY0R00	M 00HM, J, 1/10W	
JA3	ERJ66EY0R00	M 00HM, J, 1/10W	
JA4	ERJ66EY0R00	M 00HM, J, 1/10W	
JA5	ERJ66EY0R00	M 00HM, J, 1/10W	
JA6	ERJ66EY0R00	M 00HM, J, 1/10W	
JA8	ERJ66EY0R00	M 00HM, J, 1/10W	
JA9	ERJ66EY0R00	M 00HM, J, 1/10W	
JK3002	K4BK10B00001	REAR AV TERMINAL	
JK3003	K4BK10B00002	REAR AV TERMINAL	
JK3004	K4BK10B00002	REAR AV TERMINAL	
JK3201	K4BK09B00004	AV TERMINAL	
JSD101	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD2311	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD2312	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD2314	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD2315	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD2350	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD2351	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD3028	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD3029	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD3033	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD3043	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD3044	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD3045	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD3046	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD604	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD605	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD612	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD852	ERJ66EY0R00	M 00HM, J, 1/10W	
JSD853	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG3132	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG3133	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG3142	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG3143	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG3144	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG3147	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG3148	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG835	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG843	ERJ66EY0R00	M 00HM, J, 1/10W	
JSG846	ERJ66EY0R00	M 00HM, J, 1/10W	
JSL955	ERJ66EY0R00	M 00HM, J, 1/10W	
L2	K1KA13A00140	CONNECTOR	
L3	K1KA13A00138	CONNECTOR	
L5	K1ZZ00001205	CONNECTOR	
L6	TJS3A9640	3P CONNECTOR	
LF830	TLP4GD016P	LINE FILTER	△
LF831	TLP4GD016P	LINE FILTER	△
RL801	K6B1CDA00027	RELAY	△
RM1062	B3RAC0000008	REMOCON RECEIVER	
SC351	K3B122A00001	CRT SOCKET	△
SW1011	EVQ11G05R	SWITCH	
SW1012	EVQ11G05R	SWITCH	
SW1013	EVQ11G05R	SWITCH	
SW1014	EVQ11G05R	SWITCH	
SW1015	EVQ11G05R	SWITCH	
SW1016	EVQ11G05R	SWITCH	
SW840	ESB92DA1B	SWITCH	△
TNR001	ENV59K01G3RF	TUNER	△
X601	H0D202500002	CRYSTAL OSC	