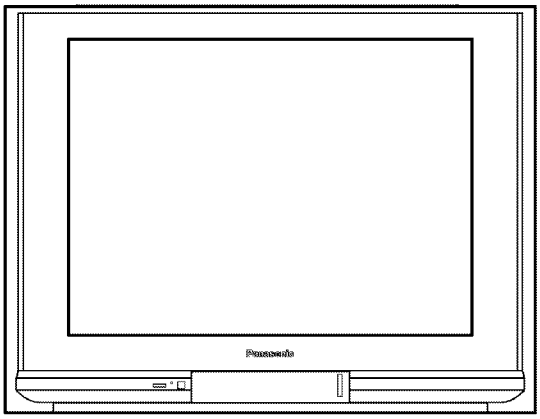
Order No. MTV0308233C3

Service Manual

Colour Television



TX-25P92X

MX-12 Chassis

Specification

Power Source	AC Auto 110-240 V, 50/60 Hz
Power Consumption	139 W
	Standby condition : 2 W
Aerial Terminal	Impedance : 75Ω, Coaxial type
Tuning System	**Frequency Synthesizer**
	Auto Search Tuning
	Pos : 100 Positions
Receiving System	17 Systems
Receiving Channels	Regular TV
VHF BAND	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 BAND	21-69 (PAL G, H, I/SECAM G, K, K1)
	28-69 (PAL B AUST.)
	13-57 (PAL D, K)
	13-62 (NTSC M Japan)
	14-69 (NTSC M U.S.A.)
CATV	S1-S20 (OSCAR)
	1-125 (U.S.A. CATV)
	C13-C49 (JAPAN)
	S21-S41 (HYPER)
	Z1-Z37 (CHINA)
Intermediate Frequency	38.0 MHz

Video	31.5 MHz (D, K) / 32.5 MHz (B, G)
	32.0 MHz (I) / 32.5 MHz (M)
Sound	33.57 MHz (PAL) /
Colour	33.6 MHz (SECAM)
	34.42 MHz (NTSC) /
	33.75 MHz (SECAM)
Receiving Stereo Sound System	QUADRA STEREO
Video/Audio/Terminals	IN S-Video Y:1.0Vp-p 75Ω
AV 1, 2, 3, 4	DVD IN S-Video C:0.3Vp-p 75Ω
Y / P_B / P_R	(Phone Type) Y:1.0Vp-p 75Ω PB,
	PR:0.7Vp-p 75Ω Video 1.0Vp-p
	75Ω Audio Approx. 400mV 47KΩ
	Video 1.0Vp-p 75Ω
Monitor Out	Audio Approx. 400mV 47KΩ
High Voltage	30.0 ±1.0V at zero
	beam current
Picture Tube	A60LUQ086X Type 25 (60 cm)
	Measured diagonally,
	104° deflection
Audio Output	20 W speaker
Dimensions (W x D x H)	650 mm x 471 mm x 530 mm
Weight (Mass)	37 kg (Net)

Note:

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

Panasonic®

⚠ WARNING

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

CONTENTS

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.

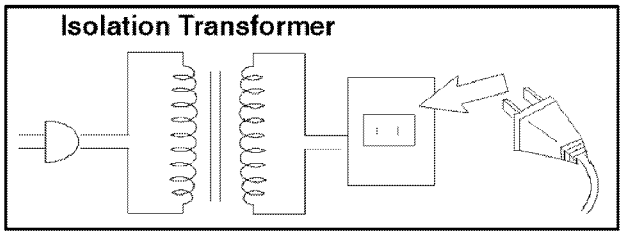


Fig. 1

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 isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as **31.7** 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.

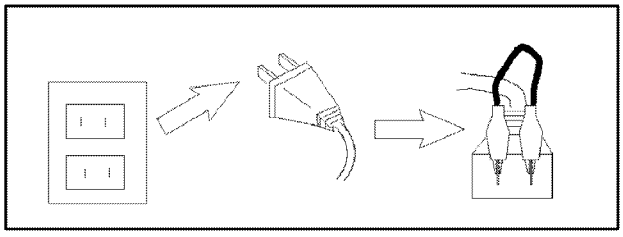


Fig. 2

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, 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 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.

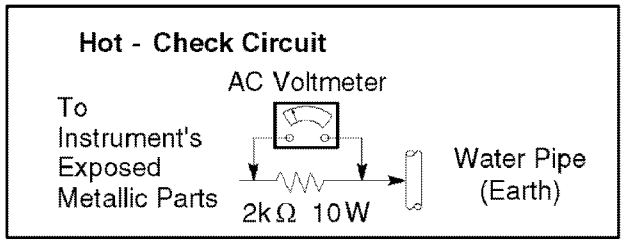


Fig. 3

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.

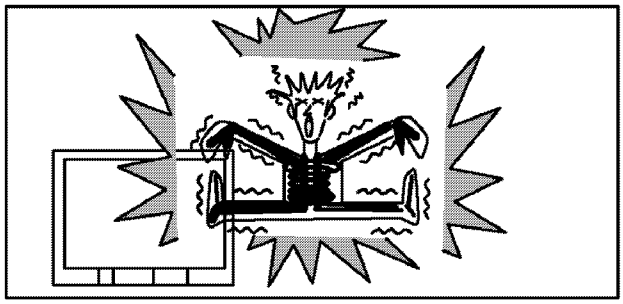


Fig. 4

1.4. X-Radiation

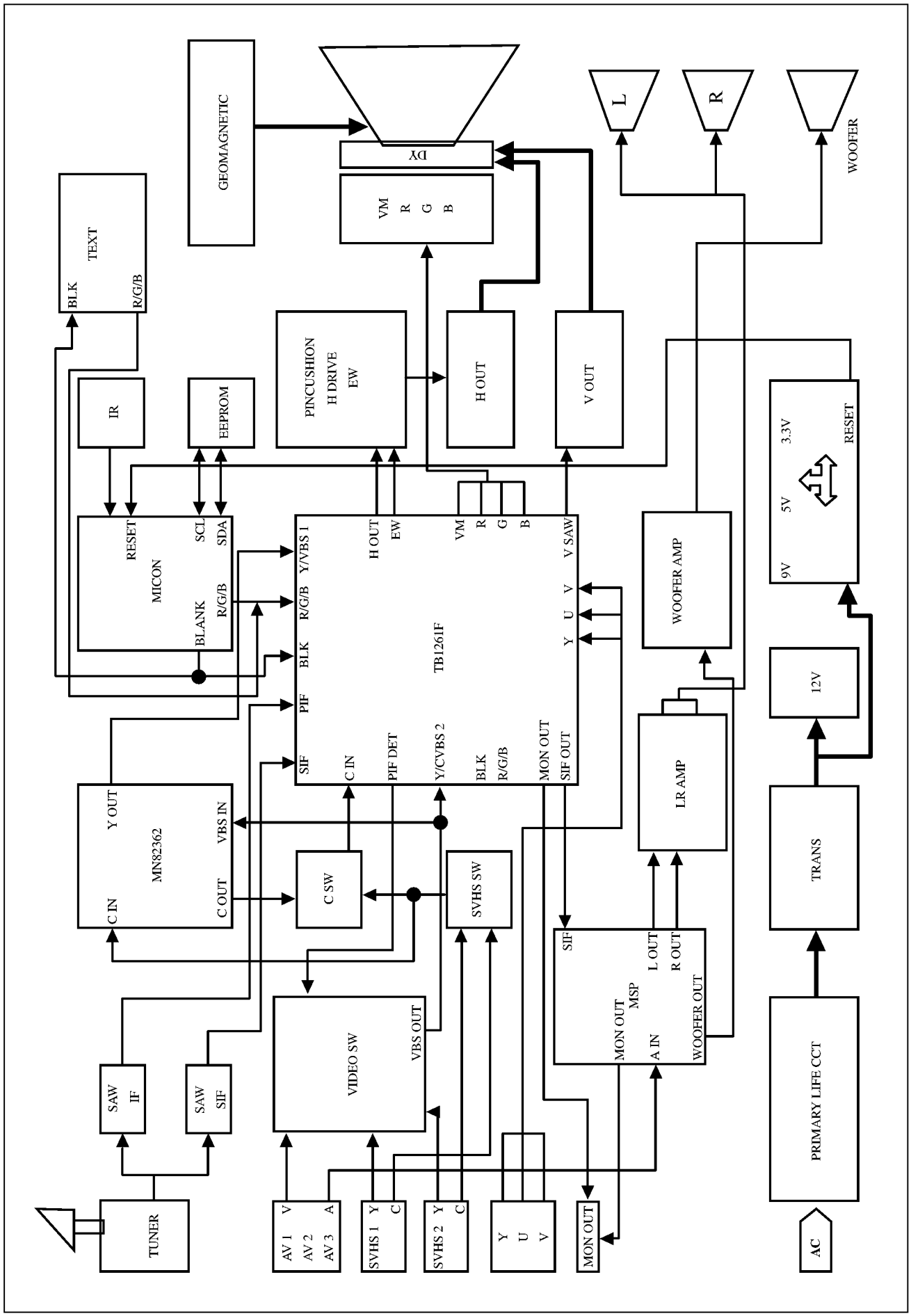
Warning :

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 **29.5 kV** without causing X-Radiation.

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

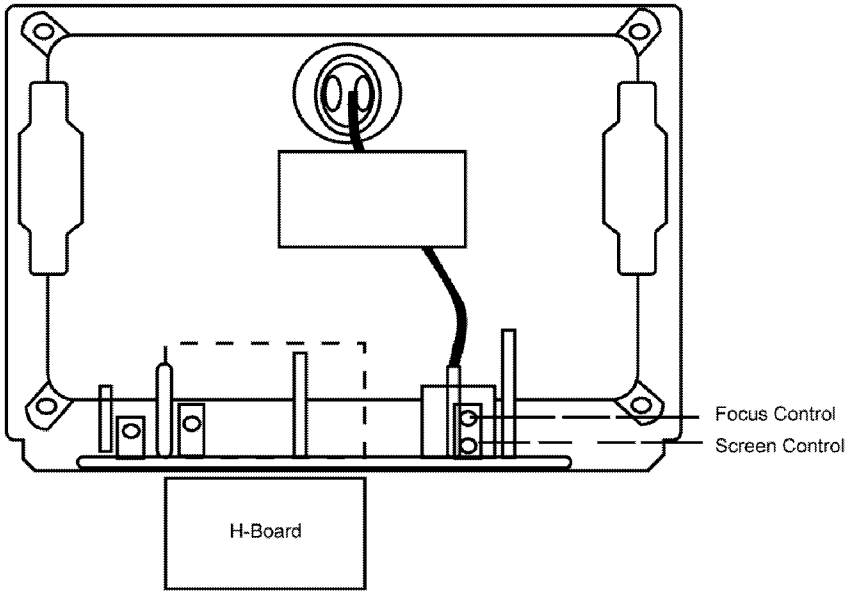
1. Set the brightness to minimum.
2. Measure the High Voltage. The meter reading should indicate **31.0 +0.7, -1.5kV**. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent the possibility of X-Radiation, it is essential to use the specified picture tube.

1.5. MX-12 Block Diagram



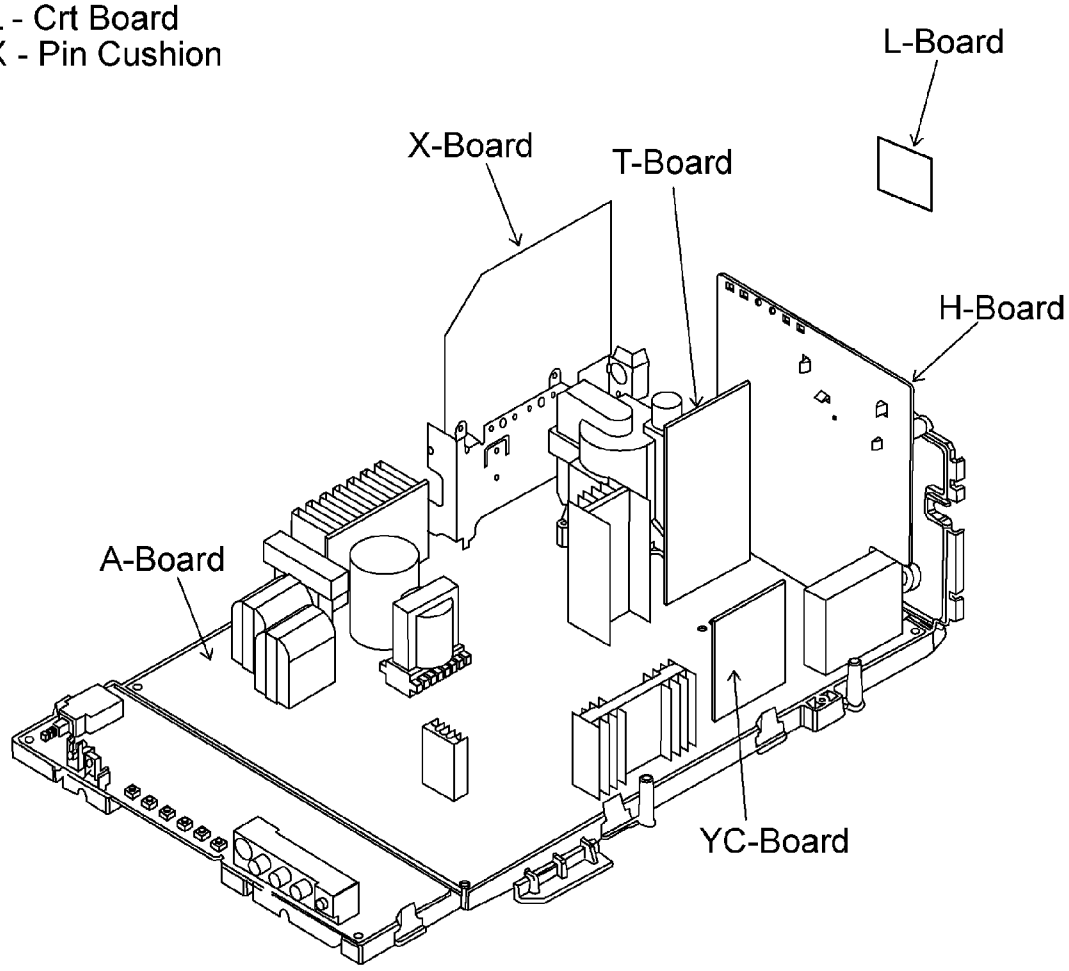
2 Location of Controls and Circuit Boards

2.1. REAR VIEW



2.2. LOCATION AND FUNCTION NAME OF CIRCUIT BOARD

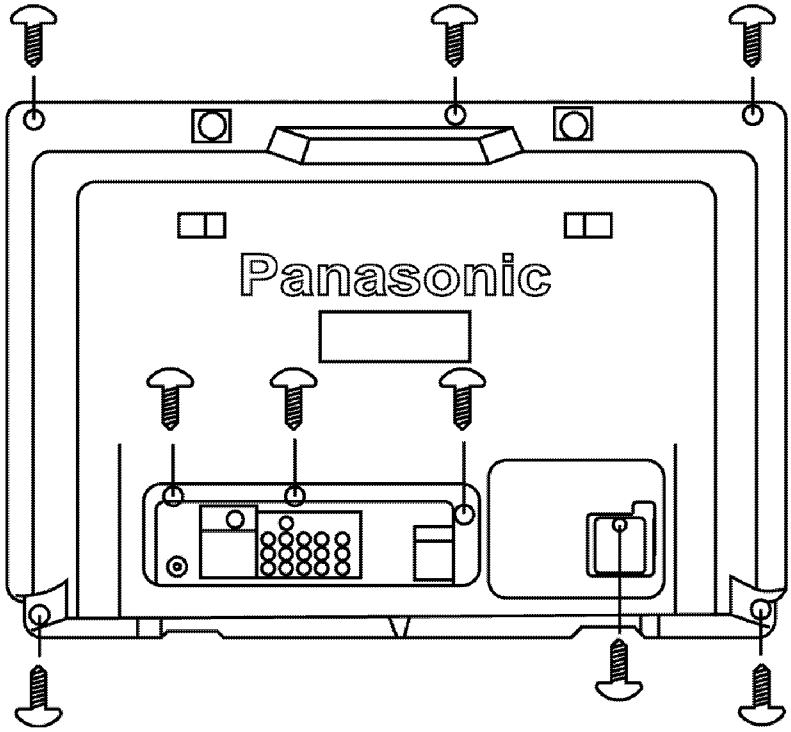
A - Main
H - Rear AV
L - Crt Board
X - Pin Cushion
YC - Board
T - Board



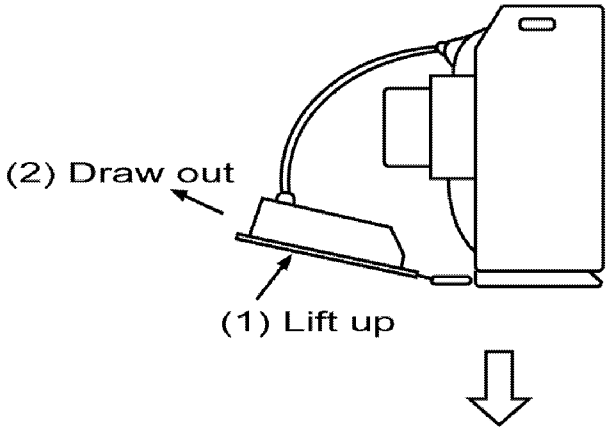
3 Service Hints

3.1. HOW TO MOVE CHASSIS INTO SERVICE POSITION.

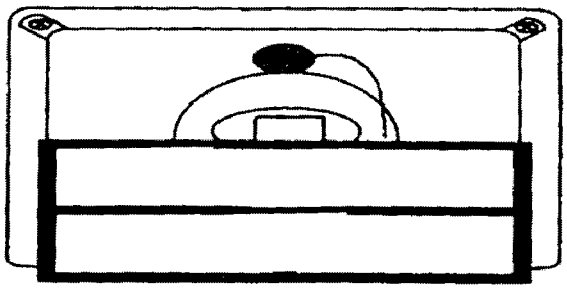
1. Remove 9 screws.



2. Draw out Main Chassis.



3. Stand the Main Chassis.



4 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.

1. CHK 1

OPTION 1	FF
OPTION 2	00
OPTION 3	00
OPTION 4	00
OPTION 5	F0
OPTION 6	81
OPTION 7	01
OPTION 8	7B
OPTION 9	F8

2. CHK 2

RF AGC	1E H
AGC - LVL	0A H
S CONT	67 H
S-COL	46 H
S-TINT	0B - H
SECAM B-Y	07 H
SECAM R-Y	07 H
TEXT S LVL	47 H

3. CHK 3

S-BRI	0A H
R-DRV	42 H
B-DRV	50 H
R-CUT	51 H
G-CUT	75 H
B-CUT	9A H

4. CHK 4

S-GEO	1F H
H POS	0C H
V POS	01 H
H-AMP	2F H
V-AMP	49 H
PARAB	47 H
TRAPE	21 H
V-LIN	07 H
T-COR	14 H
B-COR	14 H
V-S-COR	0D H
V-H-PAR	02 H
V-H-BOW	03 H

5 Adjustment Procedure

5.1. B VOLTAGE

Item/Preparation	Adjustment Procedure
1. Operate the TV set. 2. Set controls : (MARKET MODE CHK 2) Bright ..... Minimum Contrast ..... Minimum Volume ..... Minimum	1. Confirm that the indicated test points for the specified voltage: TPA 140 : 141 ± 2V TPA 12 : 12 ± 0.5V TPA 9 : 9 ± 0.5V TPA 5 & TPA 6 : 5 ± 0.5V TPA 220 : 220 ± 15V TPA 3 : 3.3 ± 0.2V

5.2. RF AGC

Item/Preparation	Adjustment Procedure
1. Receive a colour bar pattern. 2. Set the input level to 69 (+1.2) db. (75Ω opened) 3. Set RF AGC in CHK 2.	1. Set RF AGC Control such as to procedure a snowy picture. 2. Set RF AGC Control at the point just before the voltage at AGC : TPA 20 begins to drop. 3. Increase the input level by 3 db and confirm that the voltage changes.

5.3. HIGH VOLTAGE

Item/Preparation	Adjustment Procedure
1. Operate the TV set. 2. Receive the crosshatch pattern. 3. Set to 0 Beam (Screen Control : min. CONTRAST : min)	1. Connect a DC voltage meter to D850 cathode and confirm the voltage is 141.0 ± 2.0V. 2. Connect a high voltage meter (Electrostatic Type) to an anode of the picture tube. 3. Confirm that the high voltage is within the range of 30.0 ± 1.0V.

5.4. SUB TINT

Item/Preparation	Adjustment Procedure
1. Receive a 3.58 MHz NTSC rainbow pattern 2. Connect oscilloscope to A21 pin 6. 3. Set controls: BRT.....CENTER COLOUR.....CENTER CONTRAST....MAX NTSC TINT.....CENTER AI.....OFF	1. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. 3 2. Receive the Rainbow pattern (3.58 MHz NTSC) on both of Main and Sub pictures. 3. Adjust Sub NTSC Tint 2 so that the peak of level of 1.3 ± 0.5V

5.5. SUB CONTRAST

Item/Preparation	Adjustment Procedure
1. Receive a colour bar pattern. 2. Connect an oscilloscope to TPA37 or TPL2 (G OUT). 3. Connect a short jumper to FBT pin3 or TPA 34 and TPA 5.. 4. Set controls: Picture menu ..... Dynamic Normal AI ..... off	1. Adjust Bright Colour: a = 2.4 ± 0.2Vp-p 2. Adjust Sub Contrast Colour: b = 2.7 ± 0.1Vp-p

5.6. PAL COLOUR OUTPUT

Item/Preparation	Adjustment Procedure
1. Receive PAL colour bar pattern.	1. Adjust Bright Control. **a = 2.3 ± 0.5Vp-p**
2. Connect an oscilloscope probe to TPA 37 or TPL2 (G OUT).	2. Adjust Sub Colour control.
3. Connect a short jumper to FBT pin 3 or TPA34 and TPA5.	3. Connect the oscilloscope probe to TPA40.
4. Set control : Picture menu.....DYNAMIC NORMAL AI.....off	4. Connect the waveform. **b = 3.1 ± 0.5Vp-p**

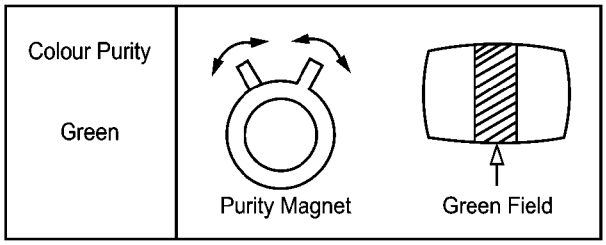
5.7. NTSC COLOUR OUTPUT

Item/Preparation	Adjustment Procedure
1. Apply 3.58MHz NTSC Rainbow pattern.	1. Adjust Bright Control. **a = 2.3 ± 0.2Vp-p**
2. Connect an oscilloscope to TPA36 or TPL1 (R OUT).	2. Connect the waveform. **b = 1.3 ± 0.5Vp-p**
3. Connect a short jumper to FBT pin 3 or TPA34 and TPA5.	
4. Set control : Picture menu.....DYNAMIC CONTROL Channel Colour Set.....STD	

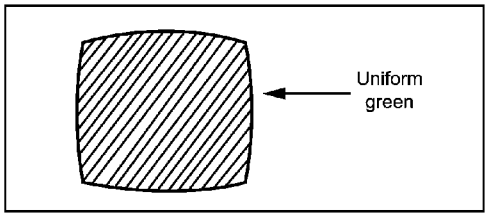
Before Colour Purity, Convergence and White Balance adjustments are attempted, V. Center, V. Height, H. Width, H. Center and Focus adjustments must be completed.

5.8. COLOUR PURITY

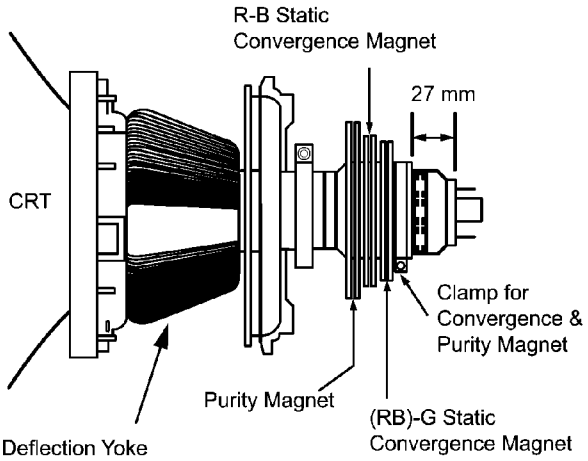
1. Set Bright and Contrast controls to their maximum positions.
2. Operate the TV set over 60 minutes.
3. Full degauss the picture tube by using an external degaussing coil. By rotating R-B static convergence magnet.
4. Apply a crosshatch pattern signal and adjust roughly the static convergence magnets.
5. Apply a green pattern signal.
6. Loosen a clamp screw for the Deflection Yoke and move the Deflection Yoke as close to the purity magnet as possible.
7. Adjust the purity magnet so that a vertical green field is obtained at the center of the screen.



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

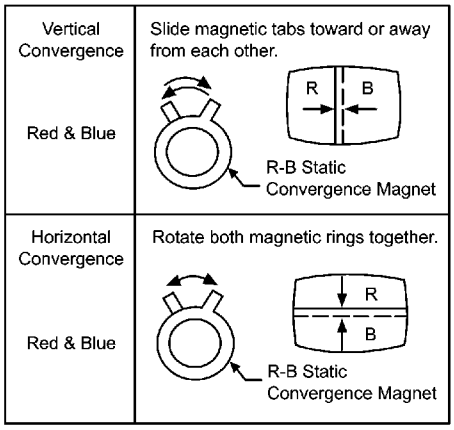


9. Adjust roughly the Low Light controls and make sure that a uniform white field is obtained.
10. Tighten the clamp screw.

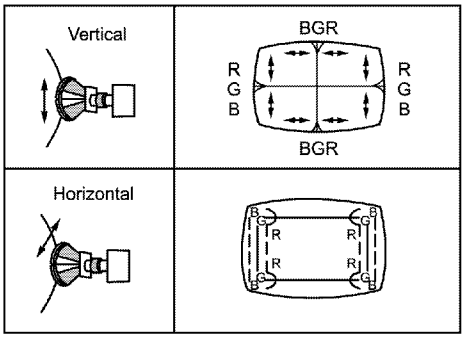


5.9. CONVERGENCE

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.



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

5.10. WHITE BALANCE (MARKET MODE CHK 3)

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 TPL7 with DC mode.
4. Set the TV set to Market Mode : white balance adjustment (CHK 3).
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 of Low Light

1. Adjustment Sub Bright, so that Y = 6.5 ± 1.0 nit.
2. Adjustment R-CUT OFF, so that X = 0.243 ± 0.010 nit.
3. Adjustment G-CUT OFF, so that Y = 0.255 ± 0.010 nit.

Adjustment of Low Light

1. Adjustment Sub Bright, so that Y = 150 nit.
2. Adjustment R-Drive, so that X = 0.260 ± 0.010 nit.
3. Adjustment B-Drive, so that Y = 0.265 ± 0.010 nit.

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.

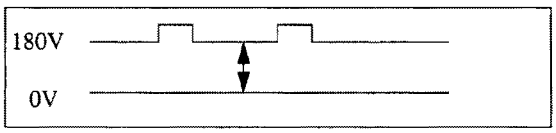
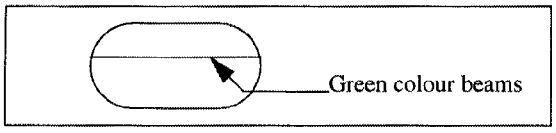
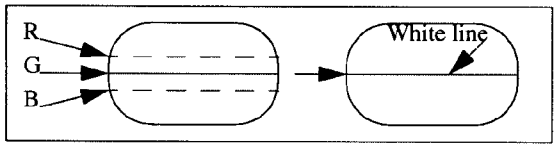


Fig. 1

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.

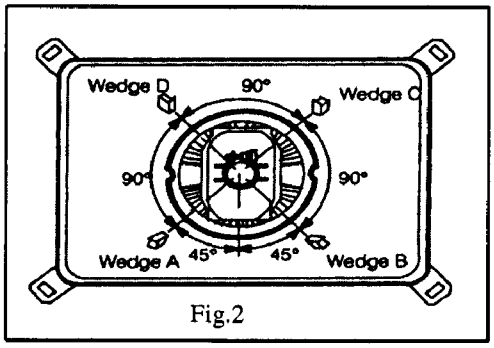
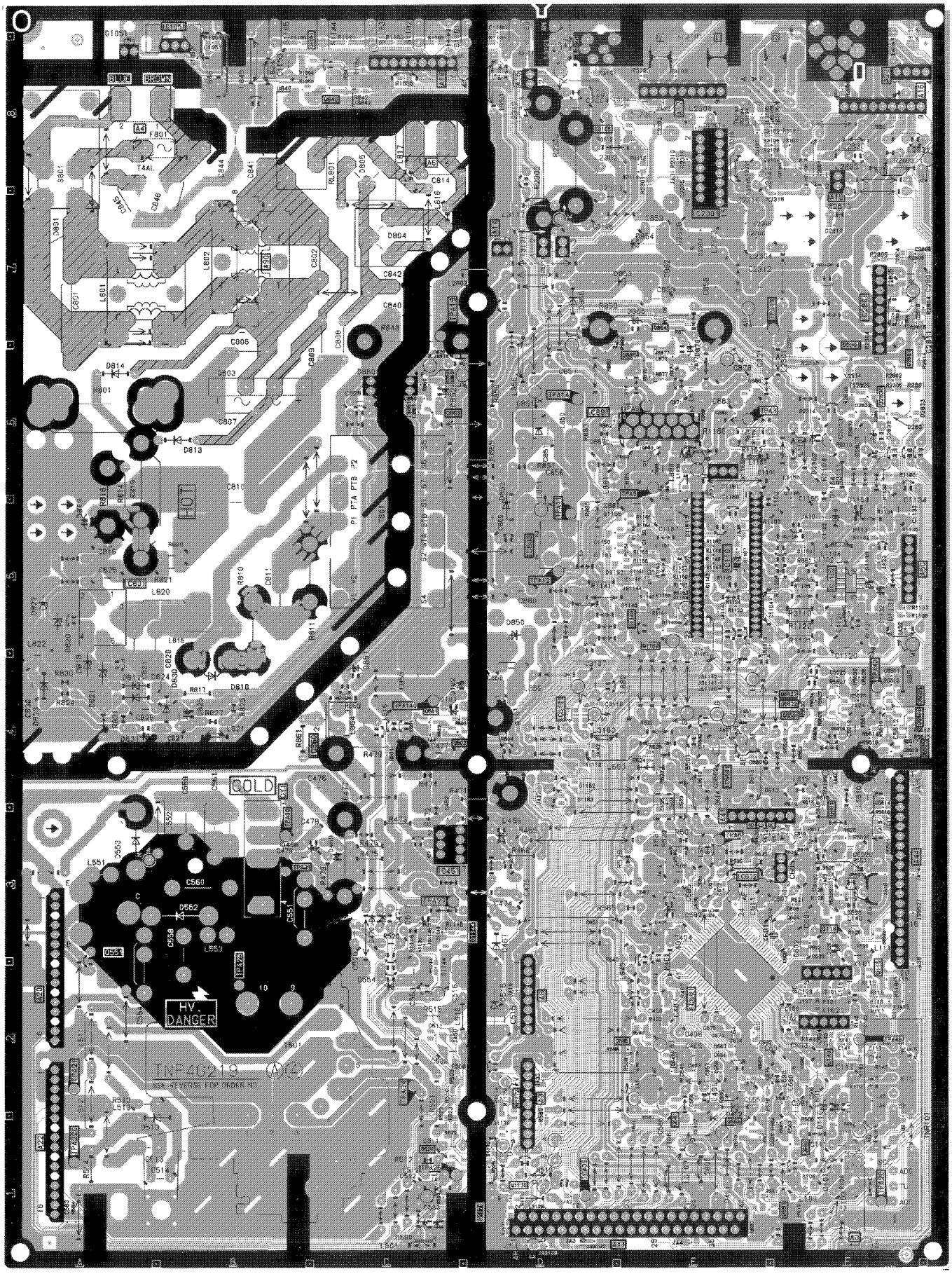


Fig.2

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.

6 Conductor Views

6.1. A-Board



7 Schematic Diagrams

7.1. SCHEMATIC DIAGRAM FOR MODEL (MX-12 CHASSIS)

Important Safety Notice

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

Notes:

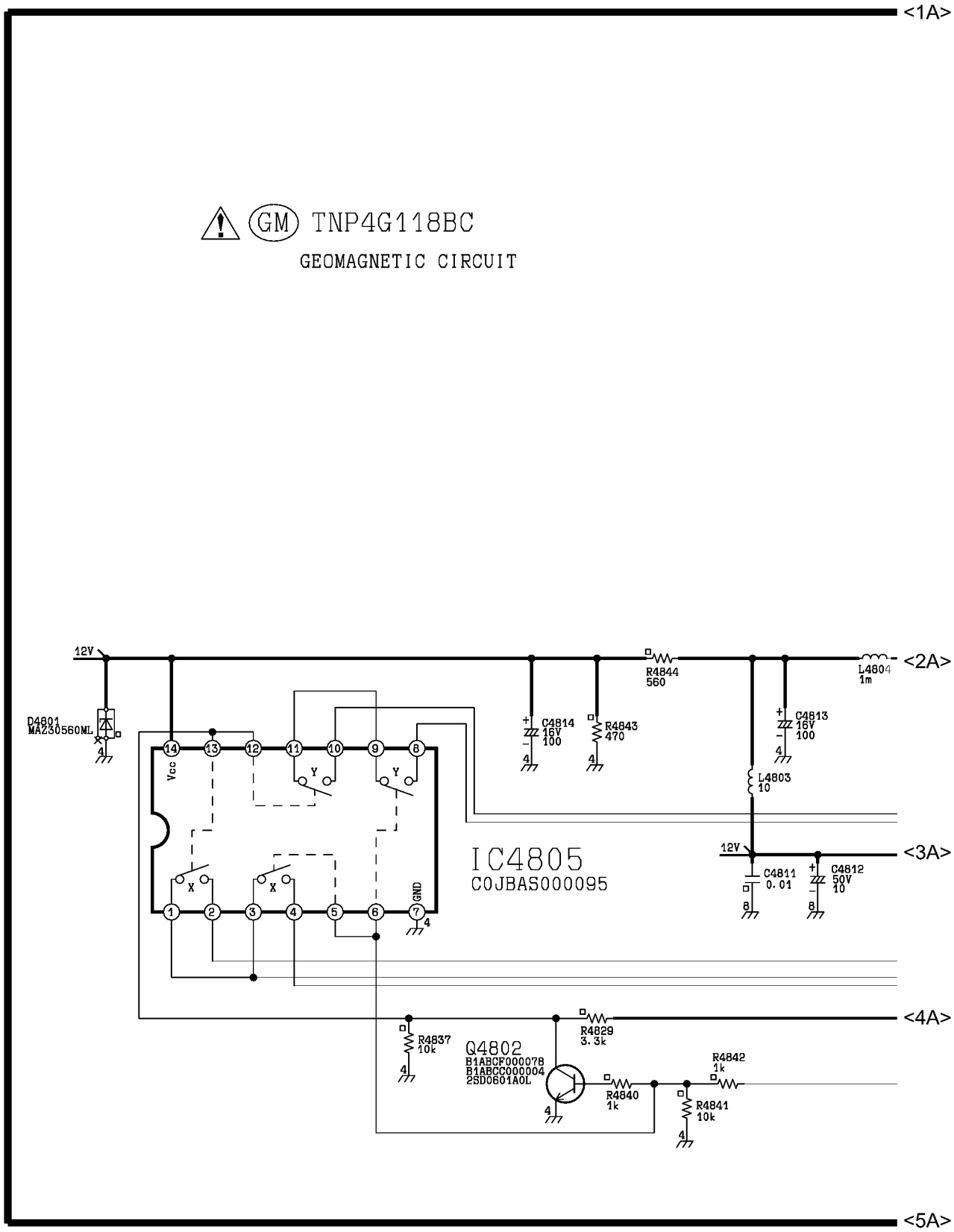
1. **Resistor**
   All resistors are carbon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   - ○ : Nonflammable
   - △ : Solid
   - ⊿ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - Ⓜ : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   - : Electrolytic
   - NP : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   - ⚲ : Test Point position
5. Earth Symbol
   - ⏚ : Chassis Earth (Cold)
   - ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   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 (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. ➡ : Video ⇨ : Audio
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

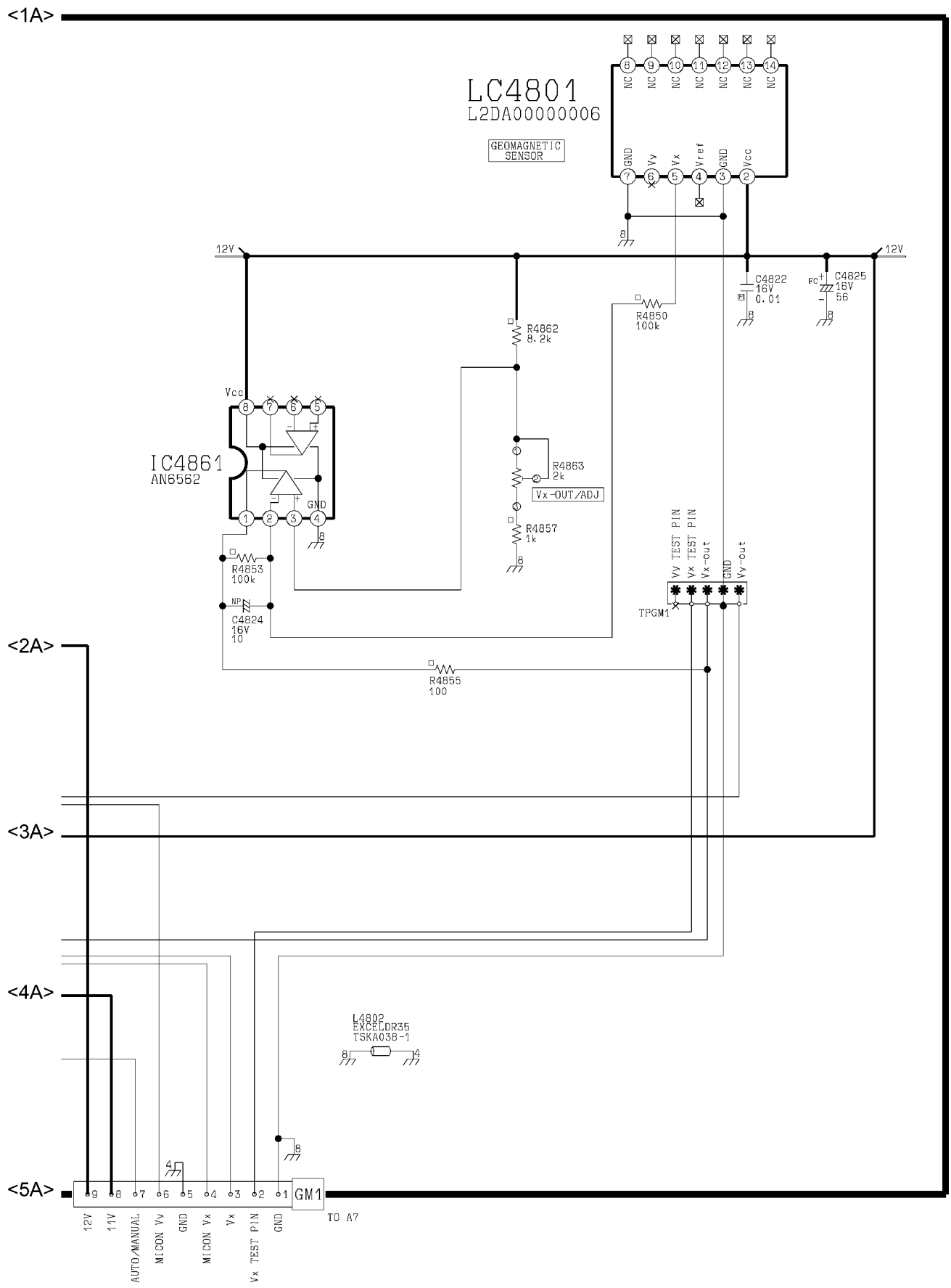
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do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

7.2. GM BOARD

7.2.1. GM BOARD 1/2

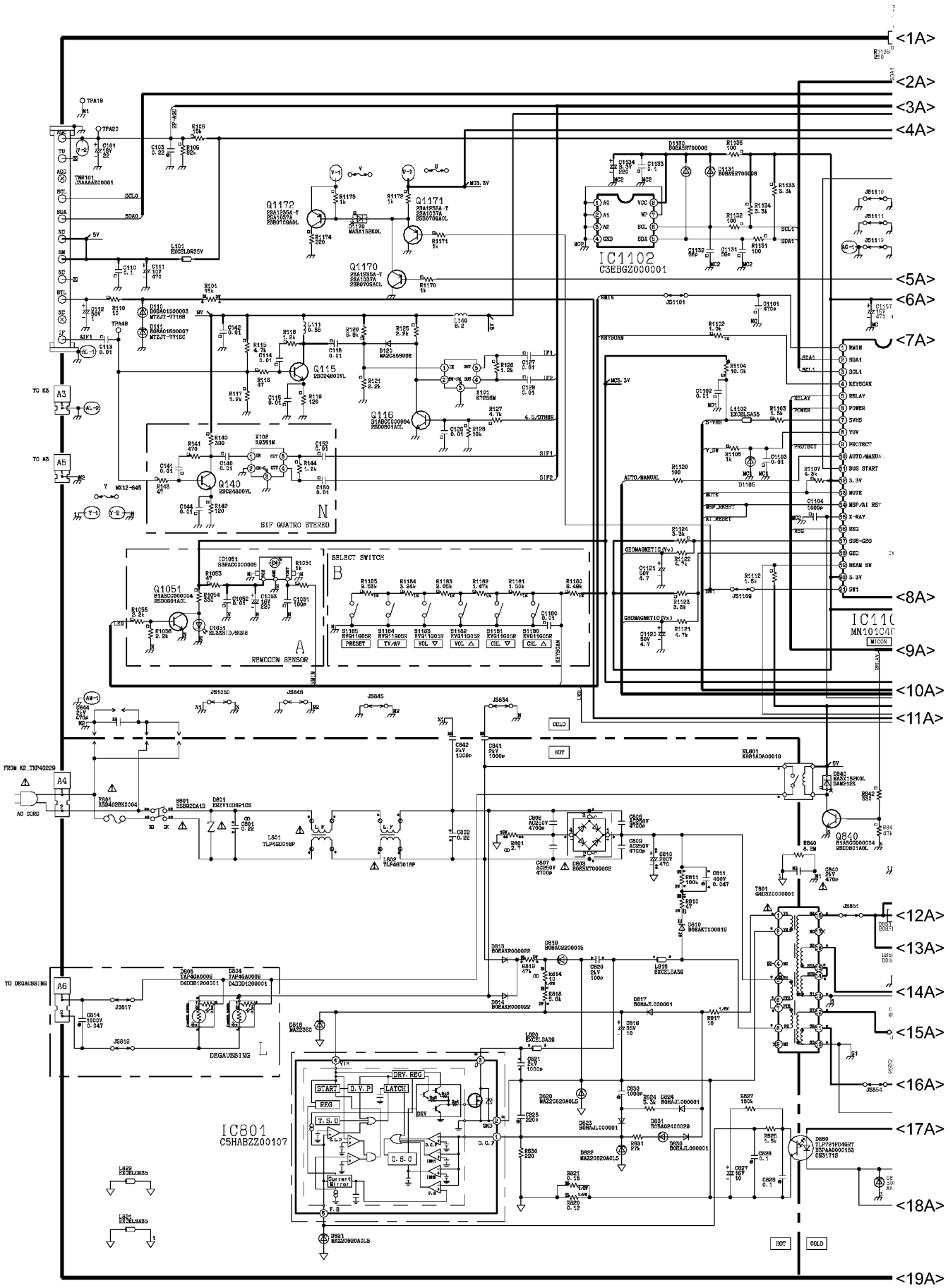


7.2.2. GM BOARD 2/2

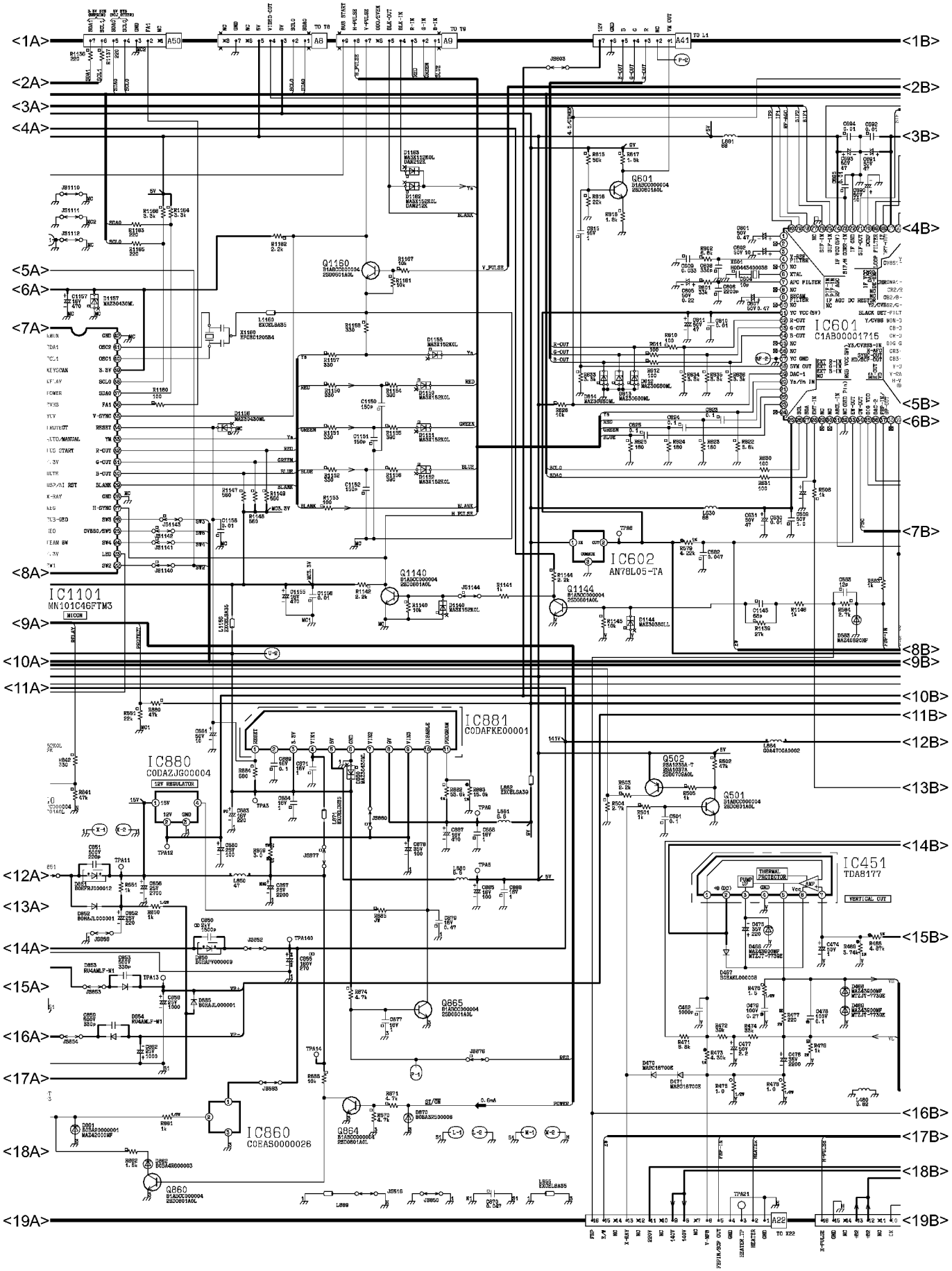


7.3. A BOARD

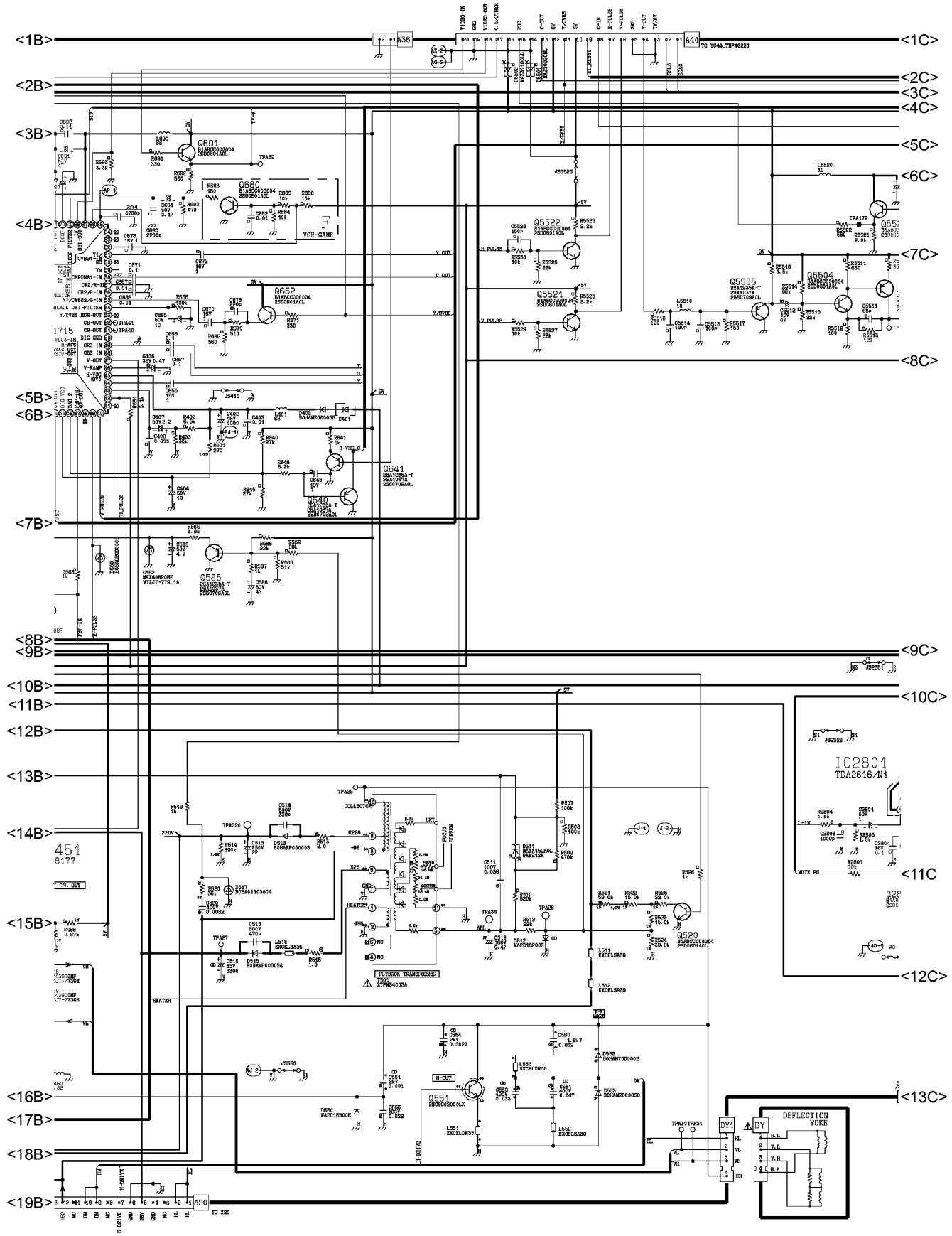
7.3.1. A BOARD 1/4



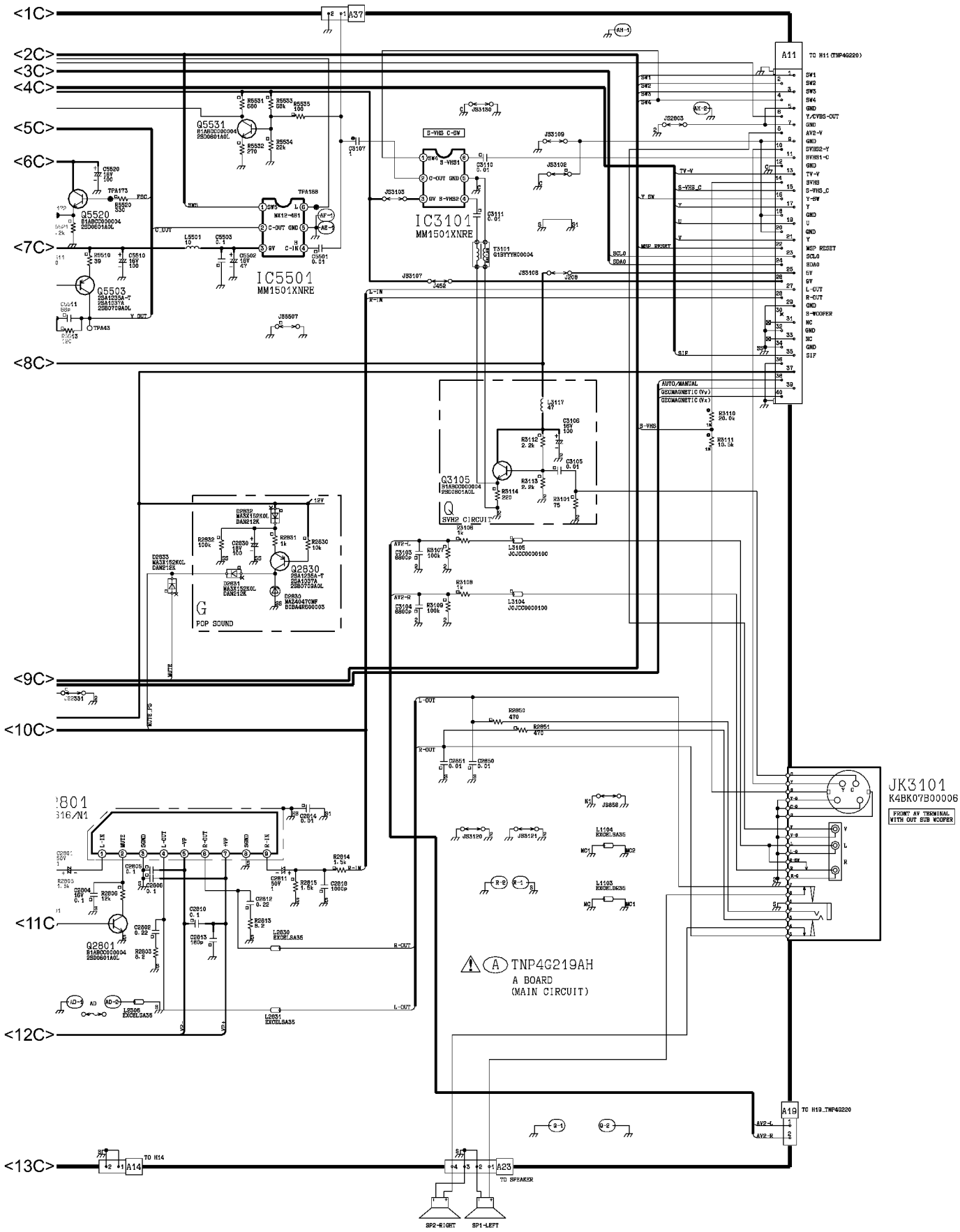
7.3.2. A BOARD 2/4



7.3.3. A BOARD 3/4

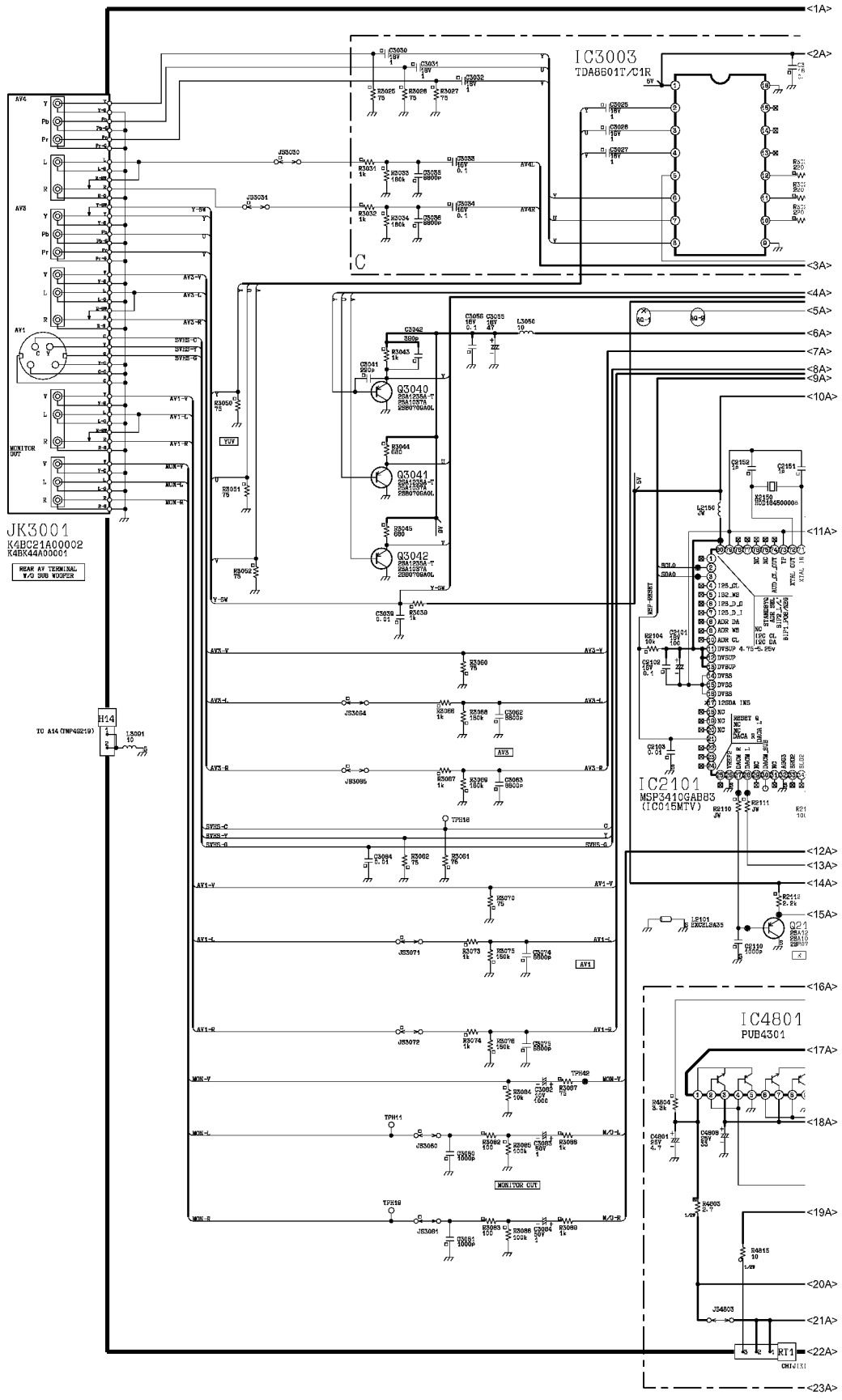


7.3.4. A BOARD 4/4

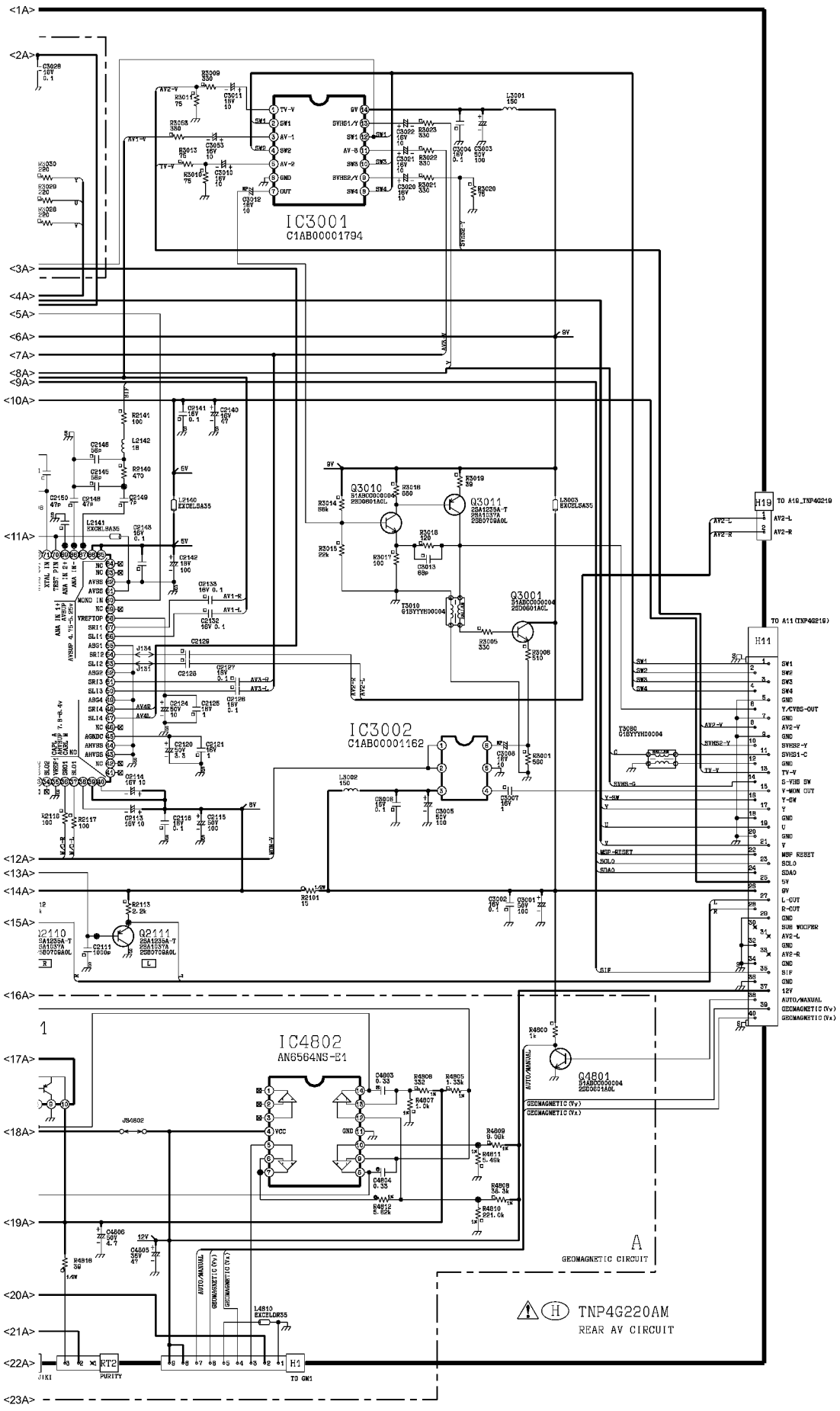


7.4. H BOARD

7.4.1. H BOARD 1/2

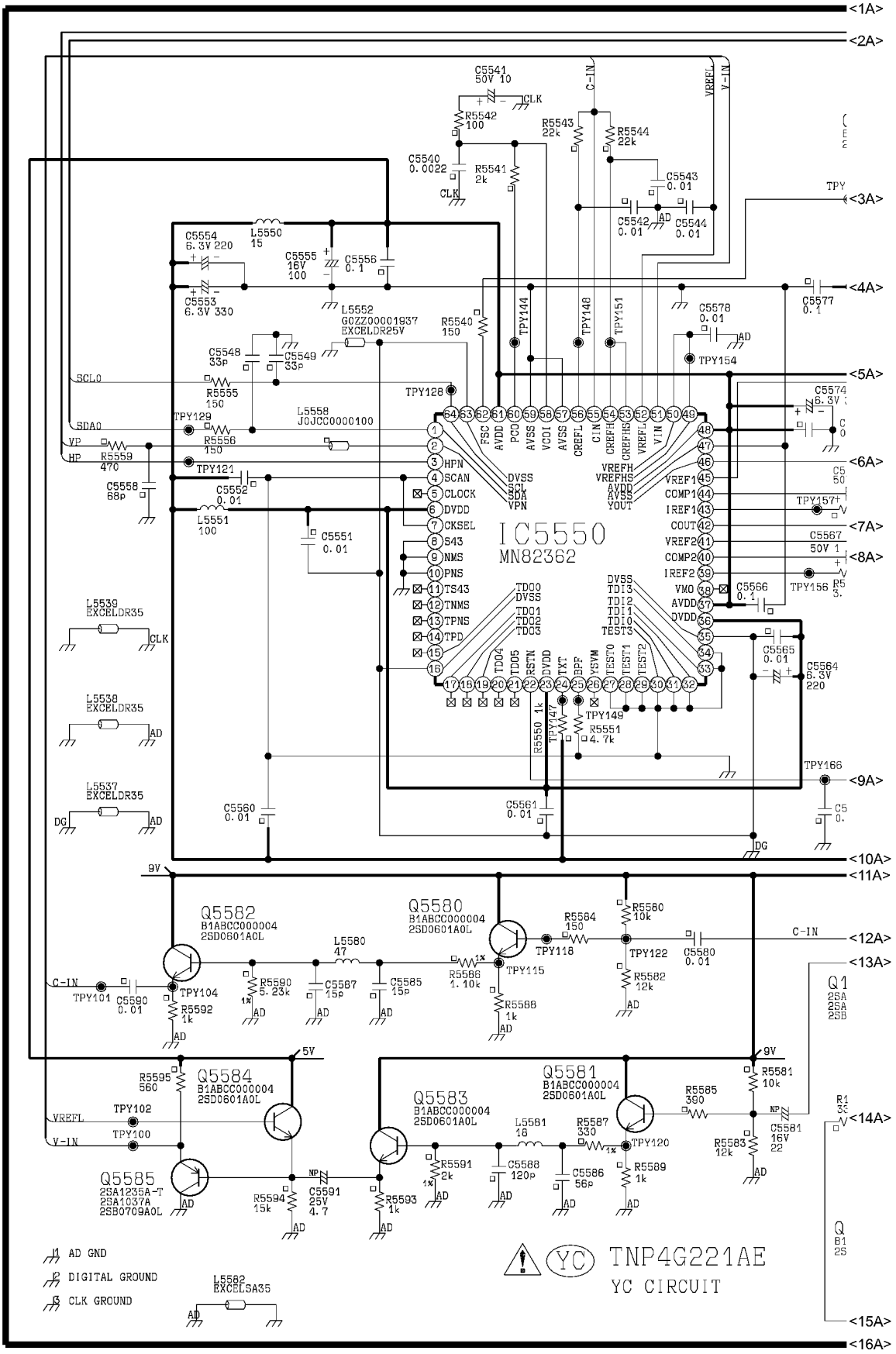


7.4.2. H BOARD 2/2

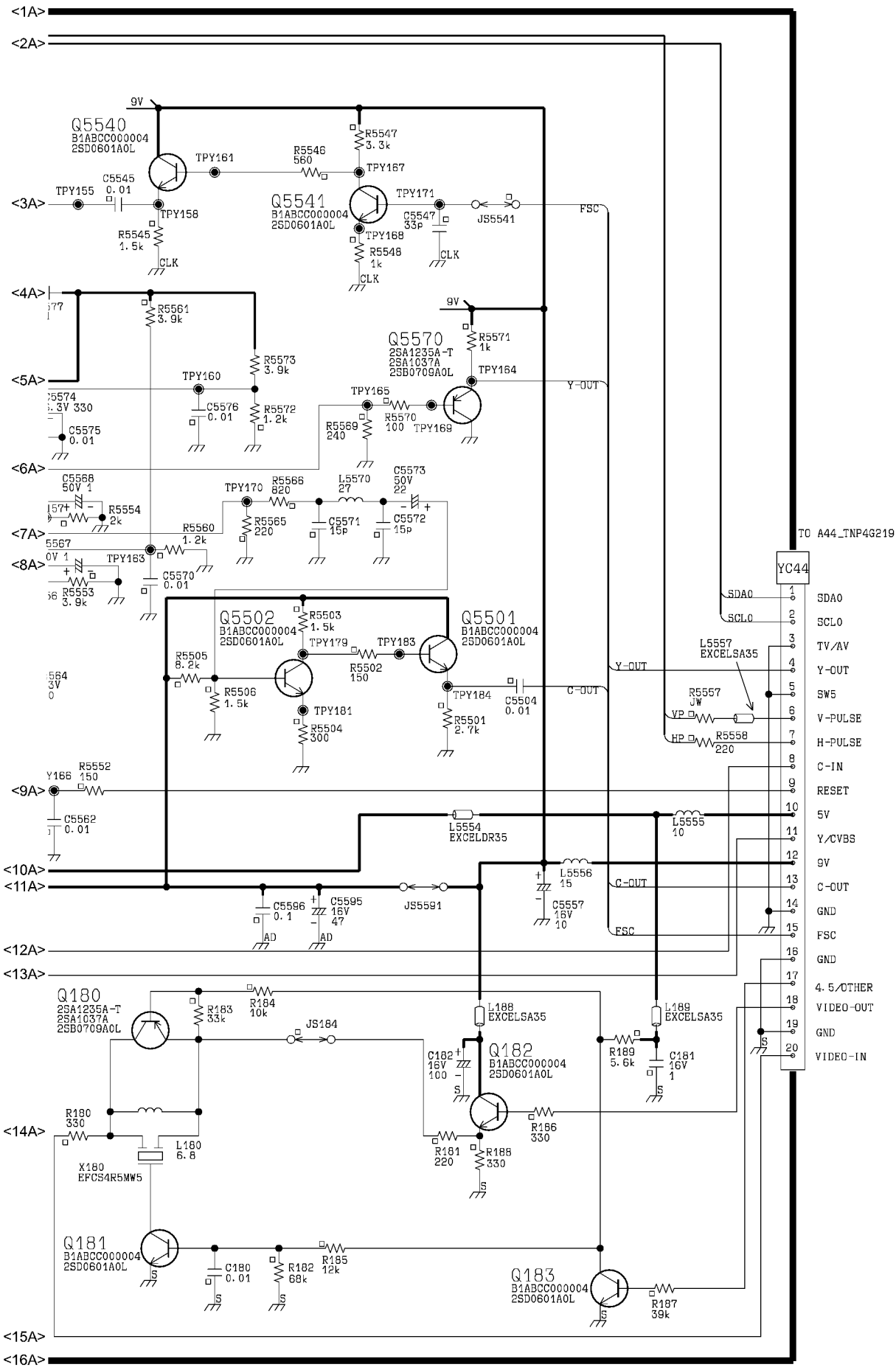


7.5. YC BOARD

7.5.1. YC BOARD 1/2

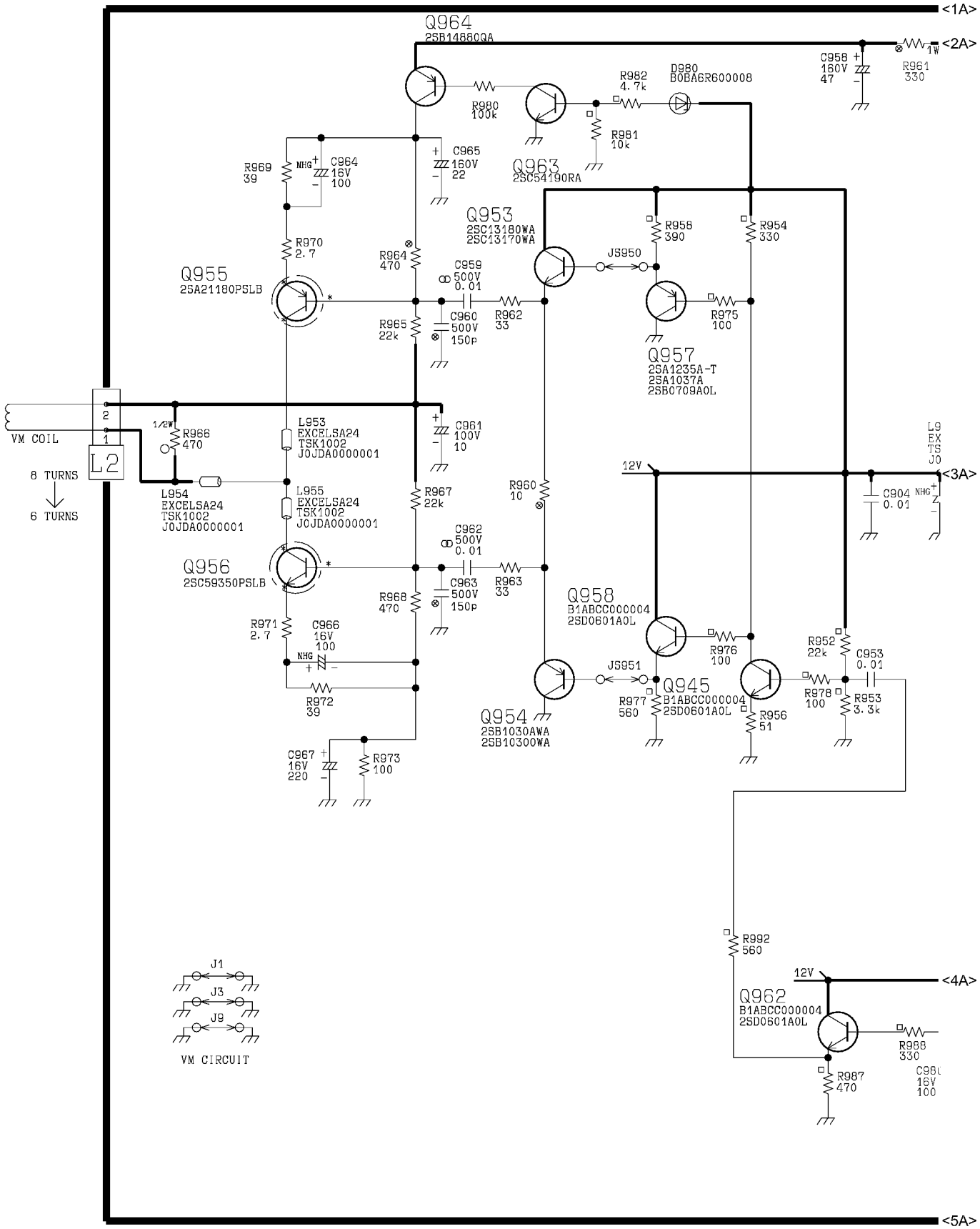


7.5.2. YC BOARD 2/2

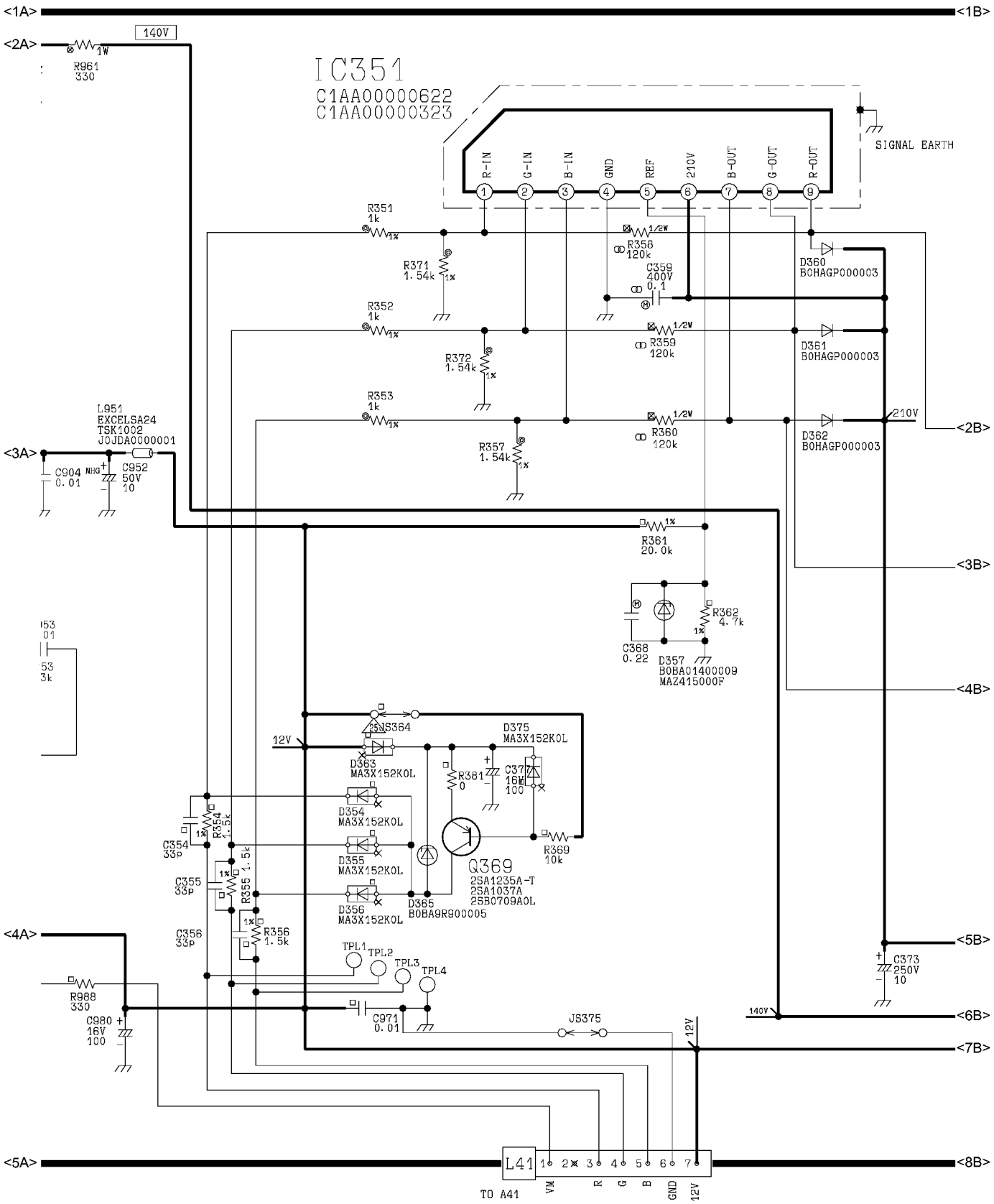


7.6. L BOARD

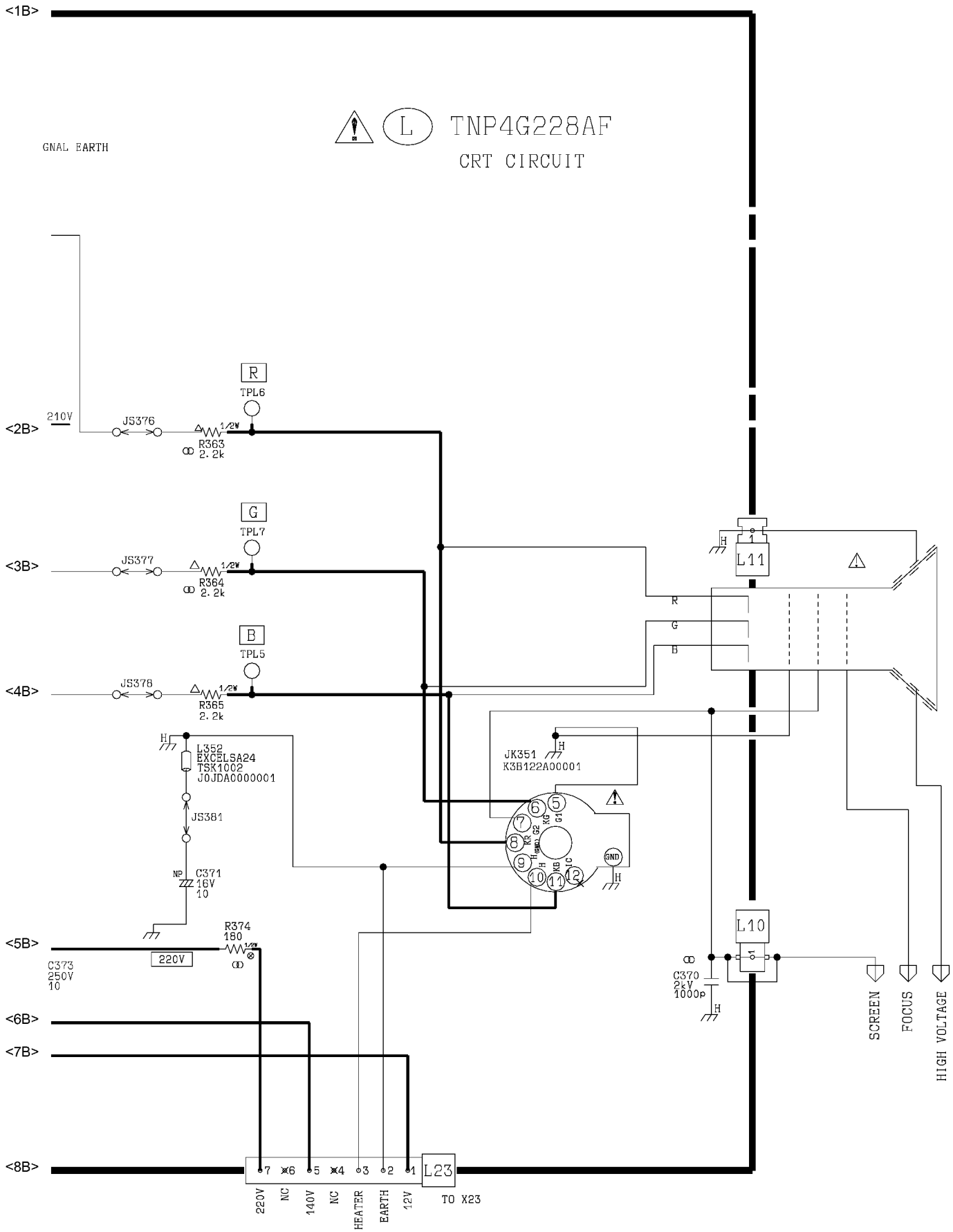
7.6.1. L BOARD 1/3



7.6.2. L BOARD 2/3

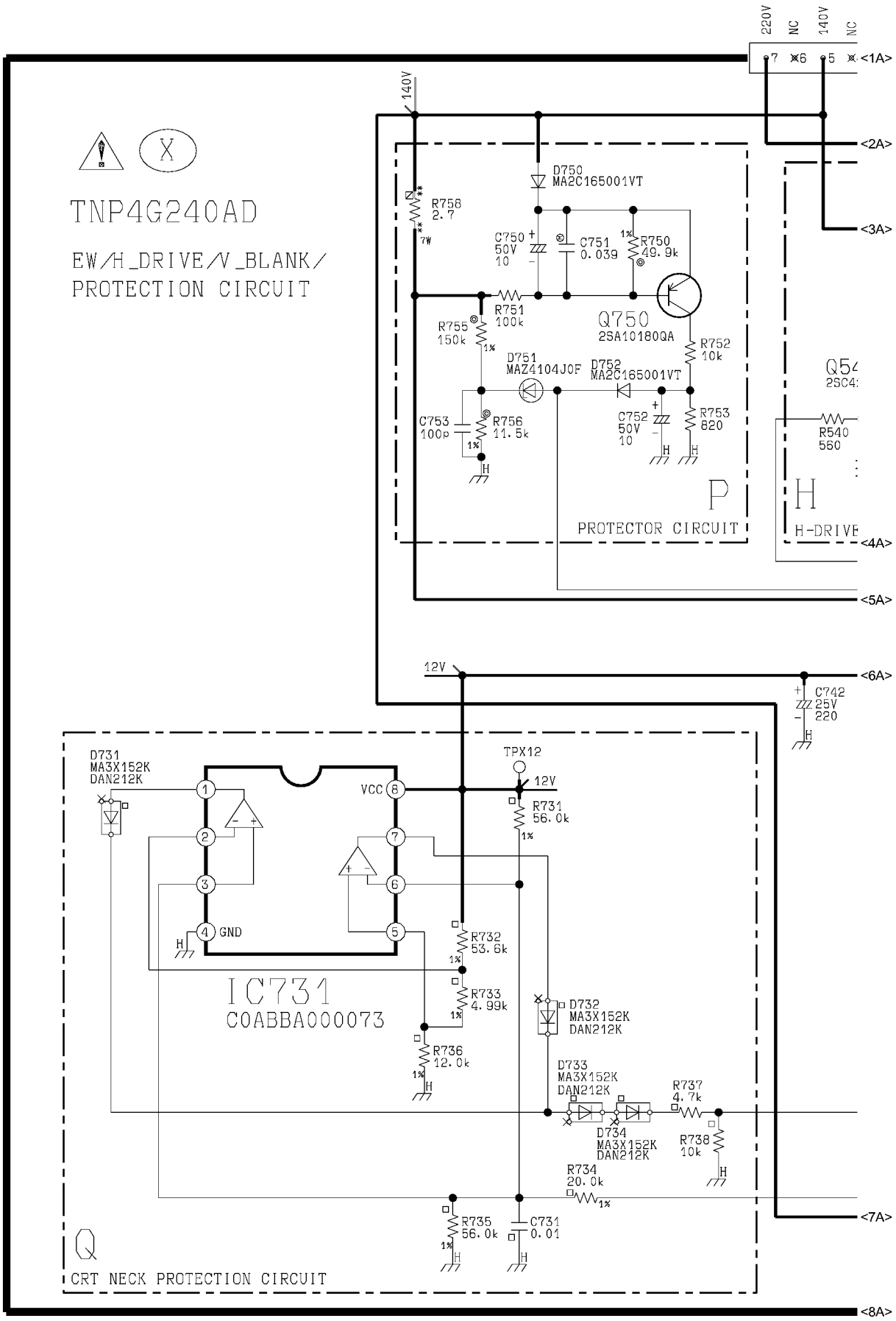


7.6.3. L BOARD 3/3

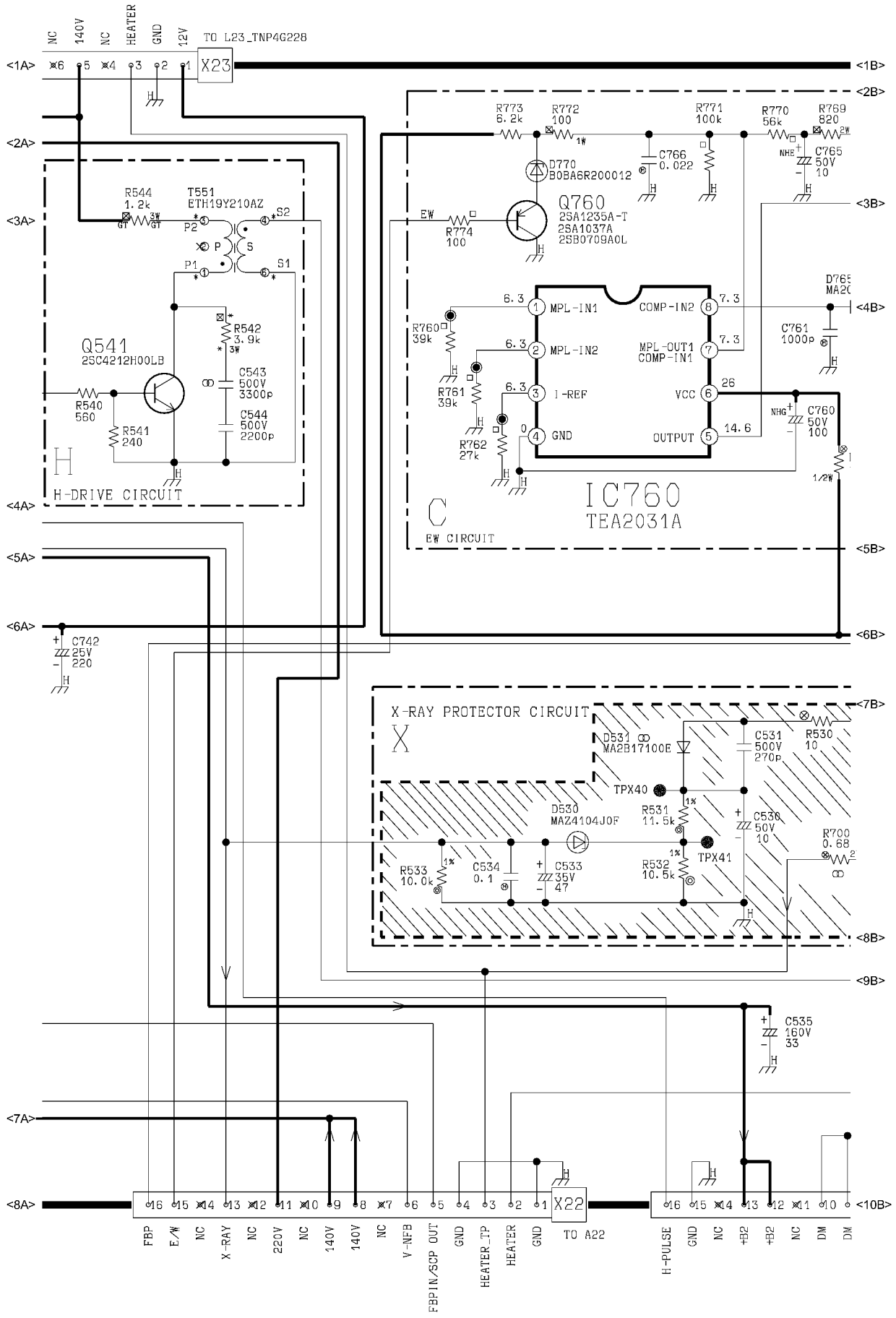


7.7. X BOARD

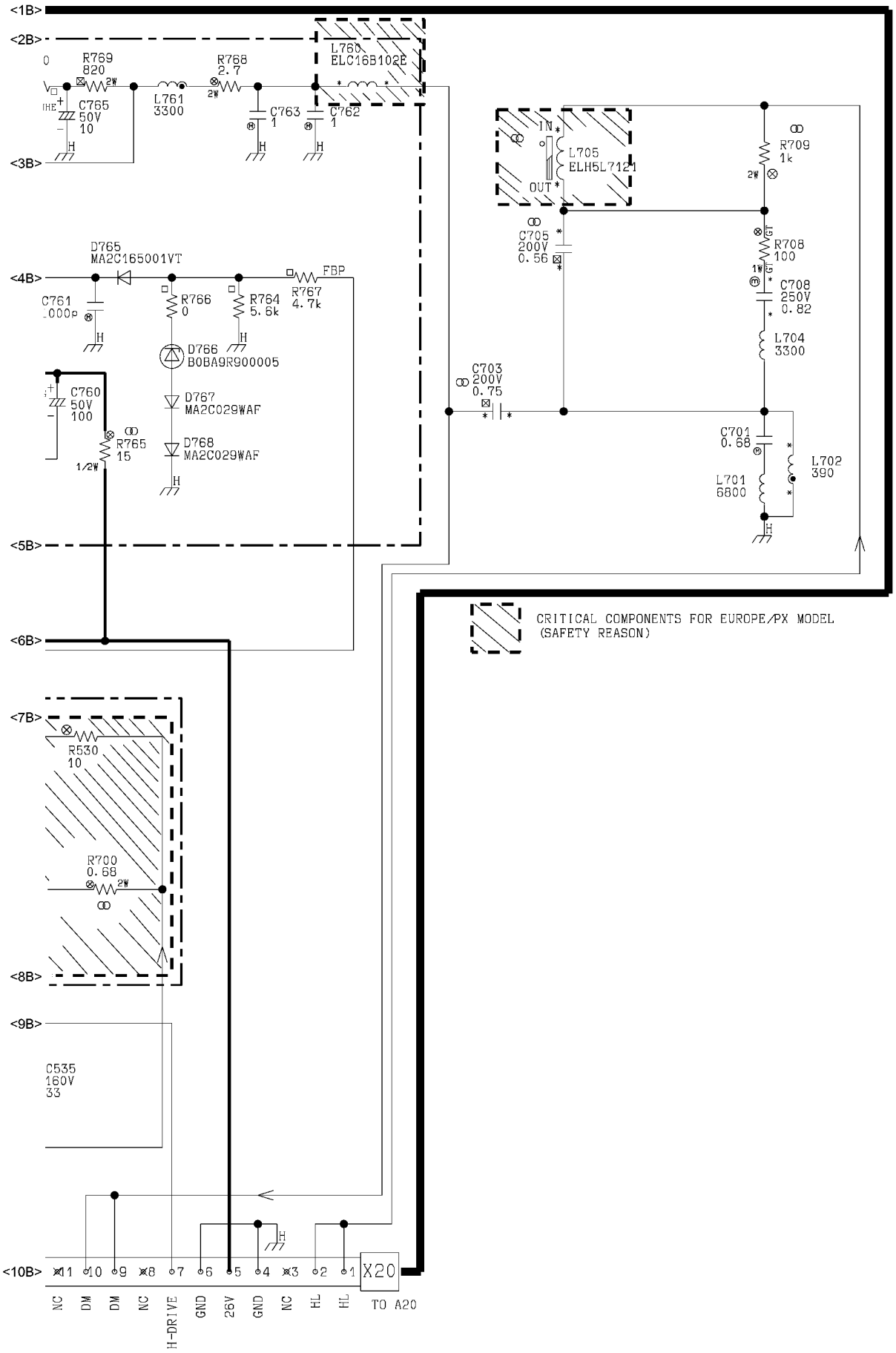
7.7.1. X BOARD 1/3



7.7.2. X BOARD 2/3

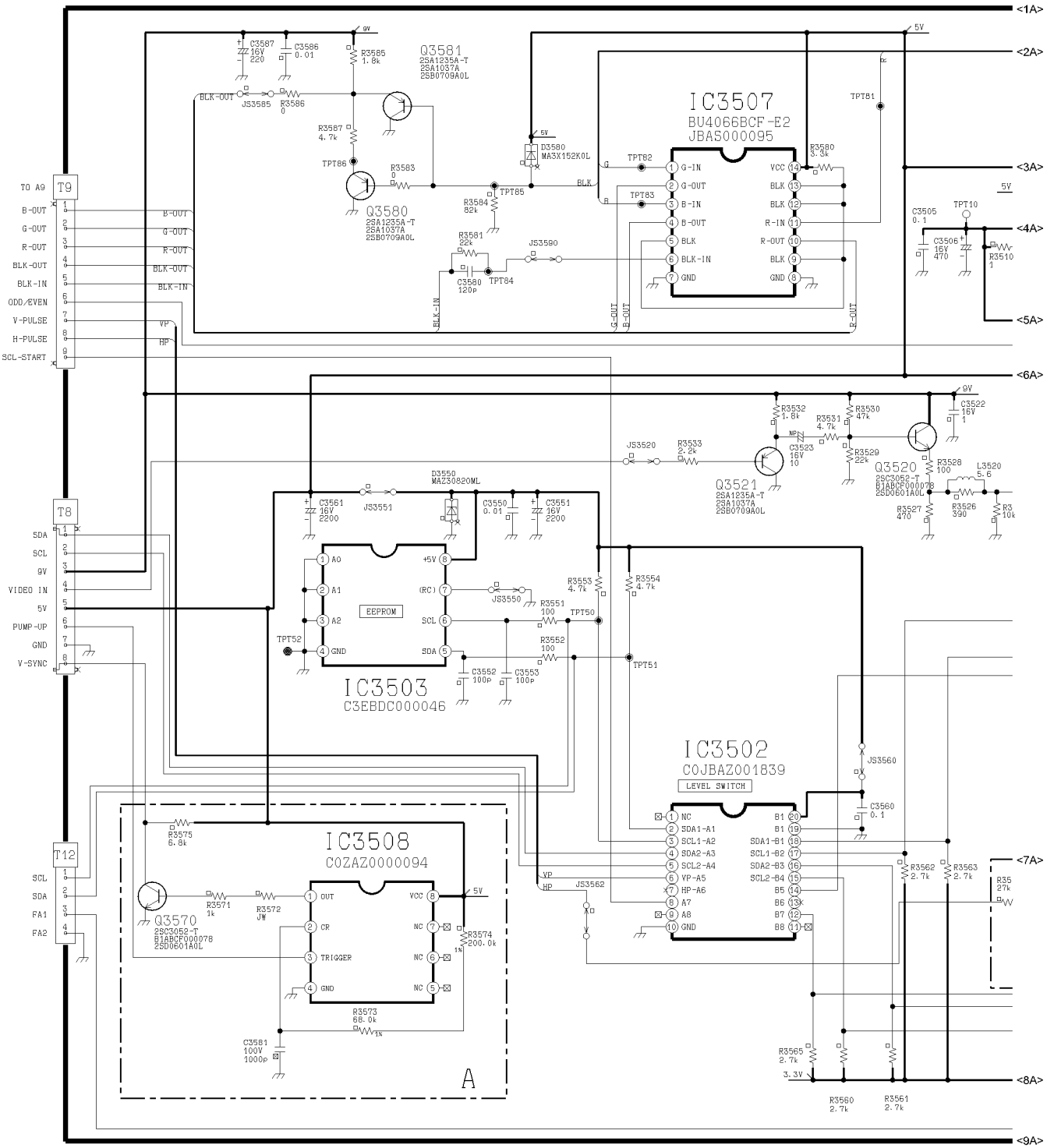


7.7.3. X BOARD 3/3

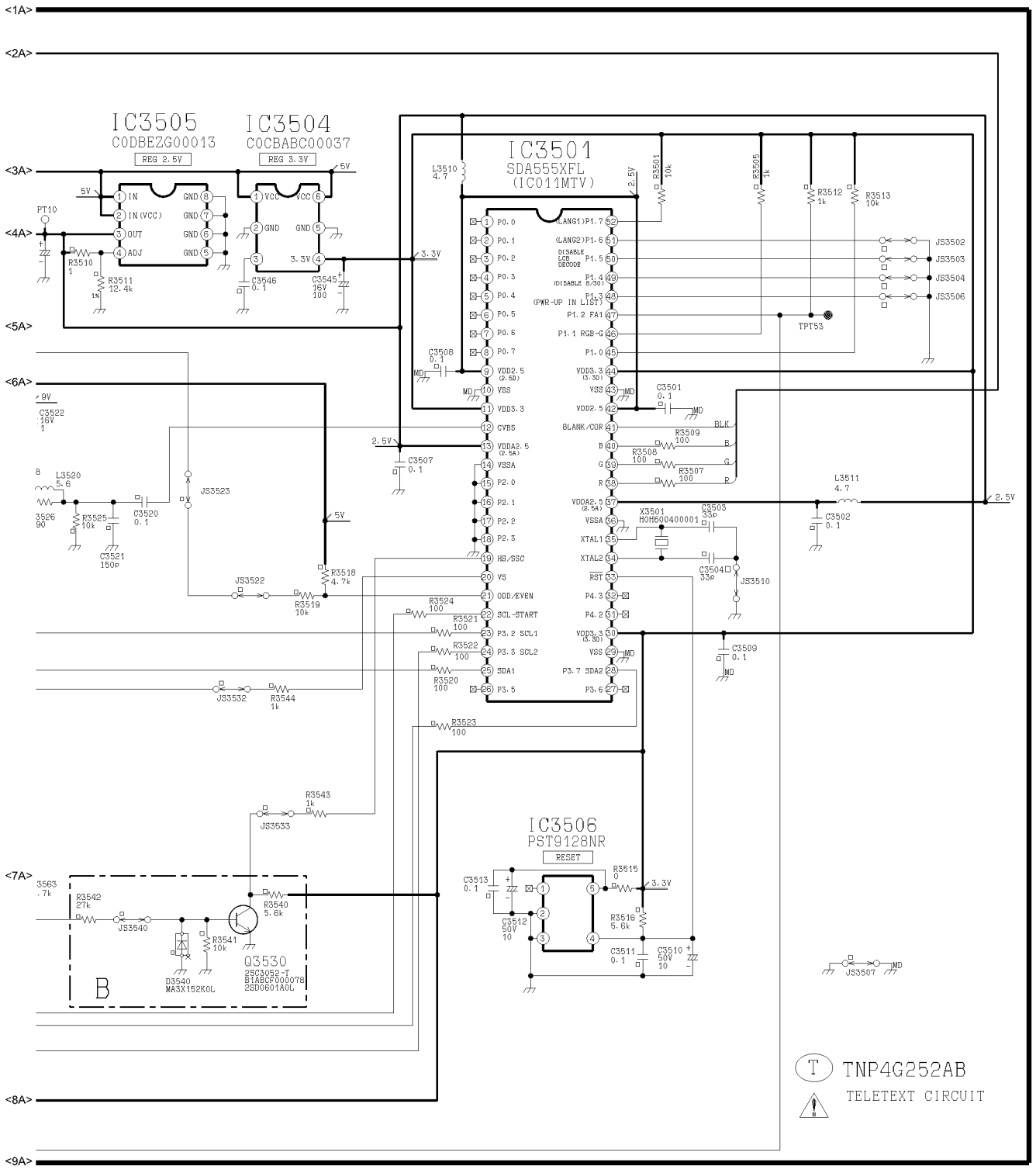


7.8. T BOARD

7.8.1. T BOARD 1/2



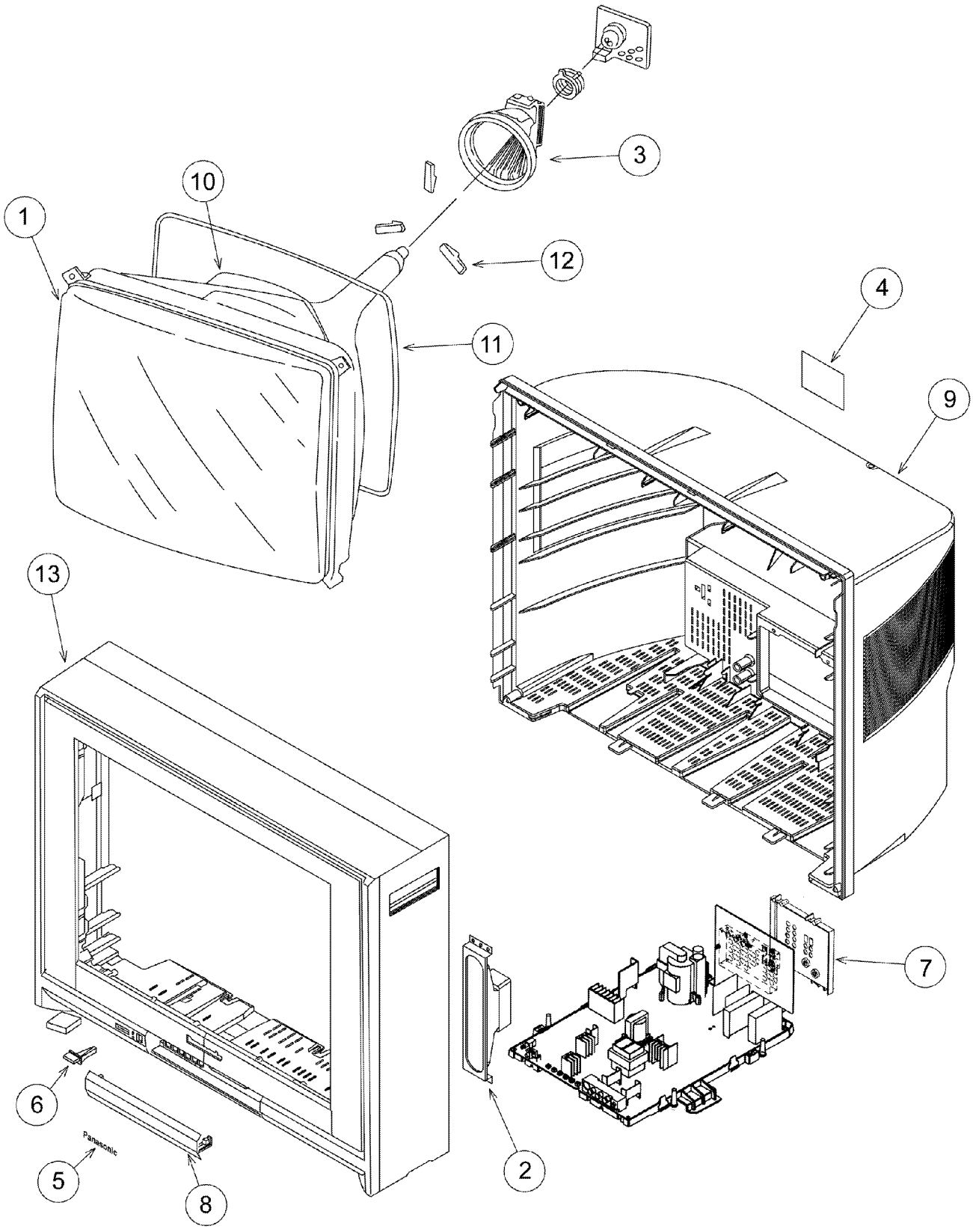
7.8.2. T BOARD 2/2



8 Parts Locations

PARTS LOCATION

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



9 Replacement Parts List

9.1. 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

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

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polypropy-	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

9.1.1. Replacement Part List

Ref. No.	Part No.	Part Name & Description	Remarks
1	A60LUQ086X	PICTURE TUBE	⚠
2	EASG20S506A2	SPEAKER	
	EUR646932	REMOTE CONTROL	
3	KDY4QHA31F	DEFLECTION YOKE	⚠
4	TBM4G0941	MODEL NAME PLATE	⚠
5	TBM4G3011	PANASONIC BADGE	
6	TBX4G89111	POWER BUTTON	
	THT4G1005R	CRT SCREW	
	THT4G1013R	SCREW	
	TJB1726400	75OHM ADAPTOR	
7	TKP4G12720-1	REAR AV BRACKET	
8	TKP4G12881-1	DOOR	
9	TKU4GA0610-2	BACK COVER	
10	TLK4G9030A	ROTATION COIL	⚠
11	TLK4G9074X	DEGAUSSING COIL	⚠
	TMM4G502	RUBBER WASHER	
12	TMM4G508	RUBBER WEDGE	
NLA	TNP4G118BC	GM BOARD	⚠
NLA	TNP4G219AH	A BOARD	⚠
NLA	TNP4G220AM	H BOARD	⚠
NLA	TNP4G221AE	YC BOARD	⚠
NLA	TNP4G228AF	L BOARD	⚠
NLA	TNP4G240AD	X BOARD	⚠
NLA	TNP4G252AB	T BOARD	⚠
	TPD4G1106-1	CUSHION (TOP)	
	TPD4G2095-1	CUSHION (BOTTOM)	
	TPE4G14003	LAMI BAG	
	TPE4G14027	SET COVER	
	TQB4G3503	FAN BAG	
	TSM10032-3	MAGNET	
	TSN63115-4	PURITY MAGNET	
	TSX4G166H	AC POWER CORD	
13	TXFKY02AS06	CABINET ASSY	
	TXFPC01AS06	CARTON	
	RESISTORS		
R101	ERG3FJ153H	M 15KOHM,J, 3W	
R106	ERJ6GEYJ823	M 82KOHM,J,1/10W	
R108	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R110	ERJ6GEYJ100	M 10OHM,J,1/10W	
R115	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R116	ERJ6GEYJ470	M 47OHM,J,1/10W	
R117	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R118	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R119	ERJ6GEYJ121	M 120OHM,J,1/10W	
R120	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R121	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R125	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R126	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R127	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R128	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R140	ERJ6GEYJ391	M 390OHM,J,1/10W	
R141	ERJ6GEYJ471	M 470OHM,J,1/10W	
R142	ERJ6GEYJ121	M 120OHM,J,1/10W	
R143	ERJ6GEYJ470	M 47OHM,J,1/10W	
R144	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R180	ERJ6GEYJ331	M 330OHM,J,1/10W	
R181	ERJ6GEYJ221	M 220OHM,J,1/10W	
R182	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R183	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R184	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R185	ERJ6GEYJ123	M 12KOHM,J,1/10W	
R186	ERJ6GEYJ331	M 330OHM,J,1/10W	
R187	ERJ6GEYJ393	M 39KOHM,J,1/10W	
R188	ERJ6GEYJ331	M 330OHM,J,1/10W	
R189	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R583	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R584	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R585	ERDS2TJ392	C 3.9KOHM,J, 1/4W	
R586	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R587	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R588	ERJ6GEYJ513	M 51KOHM,J,1/10W	
R589	ERJ6GEYJ683	M 68KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R601	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R602	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R610	ERJ6GEYJ101	M 100OHM,J,1/10W	
R611	ERJ6GEYJ101	M 100OHM,J,1/10W	
R612	ERJ6GEYJ101	M 100OHM,J,1/10W	
R615	ERJ6GEYJ563	M 56KOHM,J,1/10W	
R616	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R617	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	
R618	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	
R622	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R623	ERJ6GEYJ181	M 180OHM,J,1/10W	
R624	ERJ6GEYJ181	M 180OHM,J,1/10W	
R625	ERJ6GEYJ181	M 180OHM,J,1/10W	
R626	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R630	ERDS2TJ101	C 100OHM,J, 1/4W	
R631	ERDS2TJ101	C 100OHM,J, 1/4W	
R633	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R634	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R635	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R636	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R640	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R641	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R645	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R646	ERD25VJ822	C 8.2KOHM,J, 1/4W	
R651	ERJ6GEYJ512	M 5.1KOHM,J,1/10W	
R666	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R669	ERJ6GEYJ561	M 560OHM,J,1/10W	
R670	ERJ6GEYJ511	M 510OHM,J,1/10W	
R671	ERJ6GEYJ331	M 330OHM,J,1/10W	
R682	ERJ6GEYJ471	M 470OHM,J,1/10W	
R683	ERJ6GEYJ181	M 180OHM,J,1/10W	
R684	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R685	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R686	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R691	ERJ6GEYJ331	M 330OHM,J,1/10W	
R692	ERJ6GEYJ331	M 330OHM,J,1/10W	
R693	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R700	ERQ2CJPR68S	F 0.68OHM,J, 2W	
R708	ERQ1CJ101	F 100OHM,J, 1W	
R709	ERQ2CJP102S	F 1KOHM,J, 2W	
R731	ERJ6ENF5602	M 56KOHM, 1/10W	
R732	ERJ6ENF5362	M53.6KOHM, 1/10W	
R733	ERJ6ENF4991	M4.99KOHM, 1/10W	
R734	ERJ6ENF2002	M 20KOHM, 1/10W	
R735	ERJ6ENF5602	M 56KOHM, 1/10W	
R736	ERJ6ENF1202	M 12KOHM, 1/10W	
R737	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R738	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R750	ER0S2CHF4992	M49.9KOHM,F, 1/4W	
R751	ERD25TJ104	C 100KOHM,J, 1/4W	
R752	ERDS2TJ103	C 10KOHM,J, 1/4W	
R753	ERDS2TJ821	C 820OHM,J, 1/4W	
R755	ER0S2CHF1503	M 150KOHM,F, 1/4W	
R756	ER0S2CKF1152	M11.5KOHM,F, 1/4W	
R758	TAR26NJ2R7Z	W 2.7OHM,J, 7W	
R760	ERJ6GEYJ393	M 39KOHM,J,1/10W	
R761	ERJ6GEYJ393	M 39KOHM,J,1/10W	
R762	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R764	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R981	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R982	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R987	ERJ6GEYJ471	M 470OHM,J,1/10W	
R988	ERJ6GEYJ331	M 330OHM,J,1/10W	
R992	ERJ6GEYJ561	M 560OHM,J,1/10W	
R1051	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1053	ERJ6GEYJ470	M 47OHM,J,1/10W	
R1054	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1055	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1056	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1102	ERJ6ENF1001	M 1KOHM, 1/10W	
R1103	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1104	ER0S2CKF1002	M 10KOHM,F, 1/4W	
R1105	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1107	ERJ6GEYJ432	M 4.3KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1112	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1120	ERDS2TJ101	C 100OHM,J, 1/4W	
R1121	ERDS2TJ472	C 4.7KOHM,J, 1/4W	
R1122	ERDS2TJ472	C 4.7KOHM,J, 1/4W	
R1123	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1124	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1131	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1132	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1133	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1134	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1135	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1136	ERJ6GEYJ221	M 220OHM,J,1/10W	
R1137	ERJ6GEYJ221	M 220OHM,J,1/10W	
R1139	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R1140	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1141	ERDS2TJ102	C 1KOHM,J, 1/4W	
R1142	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1144	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1145	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1146	ERDS2TJ102	C 1KOHM,J, 1/4W	
R1147	ERJ6GEYJ561	M 560OHM,J,1/10W	
R1148	ERJ6GEYJ561	M 560OHM,J,1/10W	
R1149	ERJ6GEYJ561	M 560OHM,J,1/10W	
R1150	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1151	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1152	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1153	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1154	ERJ6GEYJ391	M 390OHM,J,1/10W	
R1155	ERJ6GEYJ391	M 390OHM,J,1/10W	
R1156	ERJ6GEYJ391	M 390OHM,J,1/10W	
R1157	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1158	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1160	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1161	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1162	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1163	ERDS2TJ221	C 220OHM,J, 1/4W	
R1164	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1165	ERDS2TJ221	C 220OHM,J, 1/4W	
R1166	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1167	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1170	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1171	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1172	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1174	ERJ6GEYJ221	M 220OHM,J,1/10W	
R1175	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1180	ERJ6ENF6491	M6.49KOHM, 1/10W	
R1181	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R1182	ERJ6ENF1471	M1.47KOHM, 1/10W	
R1183	ERJ6ENF2051	M2.05KOHM, 1/10W	
R1184	ERJ6ENF3241	M3.24KOHM, 1/10W	
R1185	ERJ6ENF9531	M9.53KOHM, 1/10W	
R3073	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3074	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3075	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3076	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3082	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3083	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3084	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R3085	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R3086	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R3087	ERJ6GEYJ750	M 75OHM, 1/10W	
R3088	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3089	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3101	ERJ6GEYJ750	M 75OHM, 1/10W	
R3106	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3107	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R3108	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3109	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R3110	ER0S2CHF2002	M 20KOHM,F, 1/4W	
R3111	ER0S2CKF1052	M10.5KOHM,F, 1/4W	
R3112	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R3113	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R3114	ERJ6GEYJ221	M 220OHM,J,1/10W	
R3507	ERJ6GEYJ301	M 300OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3508	ERJ6GEYJ301	M 300OHM,J,1/10W	
R3509	ERJ6GEYJ301	M 300OHM,J,1/10W	
R3510	ERJ6GEYJ1R0	M 1OHM,J,1/10W	
R3511	ERJ6ENF1242	M12.4KOHM, 1/10W	
R3512	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3515	ERJ6GEY0R00	M 0OHM,J,1/10W	
R3516	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R3518	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R3519	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R3520	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3521	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3522	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3523	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3524	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3525	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R3526	ERJ6GEYJ391	M 390OHM,J,1/10W	
R3527	ERJ6GEYJ471	M 470OHM,J,1/10W	
R3528	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3529	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R3530	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R3531	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R3532	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	
R3533	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R3543	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3544	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3551	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3552	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3553	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R3554	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R3560	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R3561	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R3581	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R3583	ERJ6GEY0R00	M 0OHM,J,1/10W	
R3584	ERJ6GEYJ823	M 82KOHM,J,1/10W	
R3585	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R3586	ERJ6GEY0R00	M 0OHM,J,1/10W	
R3587	ERJ6GEY0R00	M 0OHM,J,1/10W	
R3588	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R3590	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R4800	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4803	ERX2SJ2R7E	M 2.7OHM,J, 2W	
R4804	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R4805	ERJ6ENF1331	M1.33KOHM, 1/10W	
R5556	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5557	ERJ6GEY0R00	M 0OHM,J,1/10W	
R5558	ERJ6GEYJ221	M 220OHM,J,1/10W	
R5559	ERJ6GEYJ471	M 470OHM,J,1/10W	
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	
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	
R5580	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R5581	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R5582	ERJ6GEYJ123	M 12KOHM,J,1/10W	
R5583	ERJ6GEYJ123	M 12KOHM,J,1/10W	
R5584	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5585	ERJ6GEYJ391	M 390OHM,J,1/10W	
R5586	ERJ6ENF1101	M 1.1KOHM, 1/10W	
R5587	ERJ6ENF3300	M 330OHM, 1/10W	
R5588	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5589	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5590	ERJ6ENF5231	M5.23KOHM, 1/10W	
R5591	ERJ6ENF2001	M 2KOHM, 1/10W	
R5592	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5593	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5594	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R5595	ERJ6GEYJ561	M 560OHM,J,1/10W	
	CAPACITORS		
C101	ECEA1CKA220	E 22UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C103	ECQV1H224JL	P 0.22UF, J, 50V	
C110	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C111	ECA1AM471B	E 470UF, 10V	
C112	ECEA1HKA010	E 1UF, 50V	
C113	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C114	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C115	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C116	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C126	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C127	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C128	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C140	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C141	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C142	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C144	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C150	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C152	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C180	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C181	ECJ2VF1C105Z	C 1UF, Z, 16V	
C182	ECA1CM101B	E 100UF, 16V	
C354	ECUX1H330JCX	C 33PF, J, 50V	
C355	ECUX1H330JCX	C 33PF, J, 50V	
C356	ECUX1H330JCX	C 33PF, J, 50V	
C359	ECQM4104KZ	P 0.1UF, K,400V	
C368	ECQV1H224JL	P 0.22UF, J, 50V	
C370	ECKW3D102KBR	C 1000PF, K, 2KV	
C371	ECEA1CN100U	E 10UF, 16V	
C373	ECA2EM100B	E 10UF, 250V	
C377	ECA1CM101B	E 100UF, 16V	
C402	ECA1CM102B	E 1000UF, 16V	
C403	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C404	ECA1HM100B	E 10UF, 50V	
C406	ECSF1VE474V	T 0.47UF, 35V	
C407	ECA1HM2R2B	E 2.2UF, 50V	
C408	ECJ2VB1H153K	C 0.015UF, K, 50V	
C691	ECA1HM470B	E 47UF, 50V	
C692	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C693	ECA1HM470B	E 47UF, 50V	
C694	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C695	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C701	ECQV1H684JM	P 0.68UF, J, 50V	
C703	F0C2E754A040	P 0.75UF, 250V	
C705	ECWF2564JBB	P 0.56UF, J,250V	
C708	ECQE2824KF	P 0.82UF, K,250V	
C731	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C742	F2A1E2210045	E 220UF, 25V	
C750	ECA1HM100B	E 10UF, 50V	
C751	ECQB1H393JF	P 0.039UF, J, 50V	
C752	ECA1HM100B	E 10UF, 50V	
C753	ECKR1H101KB5	C 100PF, K, 50V	
C760	ECA1HHG101	E 100UF, 50V	
C761	ECQB1H102KF	P 1000PF, K, 50V	
C762	ECQV1H105JM	P 1UF, J, 50V	
C763	ECQV1H105JM	P 1UF, J, 50V	
C765	ECEA1HGE100	E 10UF, 50V	
C766	ECQB1H223JF	P 0.022UF, J, 50V	
C801	ECQU2A224BN9	P 0.22UF, 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	EETHC2G471K	E 470UF, 400V	
C811	ECQM4473JZ	P 0.047UF, J,400V	
C814	ECQE2A473JF	P 0.047UF, J,250V	
C816	ECA1VM100B	E 10UF, 35V	
C820	ECKW3D101KBP	C 100PF, K, 2KV	
C821	ECKW3D102KBP	C 1000PF, K, 2KV	
C825	ECQB1H221JF	P 220PF, J, 50V	
C826	ECQB1H104JF	P 0.1UF, 50V	
C827	ECA1CM100B	E 10UF, 16V	
C828	ECQB1H104JF	P 0.1UF, 50V	
C830	ECQB1H102JF	P 1000PF, 50V	
C840	ECKCNA471MB7	C 470PF, M,	

Ref. No.	Part No.	Part Name & Description	Remarks
C841	ECKCNA102MB7	C 1000PF, M,	
C842	ECKCNA102MB7	C 1000PF, M,	
C844	ECKCNA471MB7	C 470PF, M,	
C850	ECKW3D152KBP	C 1500PF, K, 2KV	
C851	ECKR2H221KB5	C 220PF, K,500V	
C852	F2A1E2210045	E 220UF, 25V	
C853	ECKR2H331KB5	C 330PF, K,500V	
C855	EC0S2CA271BB	E 270UF, 160V	
C856	F2A1E2720011	E 2700UF, 25V	
C857	ECA1EHG222E	E 2200UF, 25V	
C858	ECA1EM102B	E 1000UF, 25V	
C859	ECKR2H331KB5	C 330PF, K,500V	
C862	ECA1EM102B	E 1000UF, 25V	
C870	ECJ2VF1H473Z	C 0.047UF, Z, 50V	
C871	ECJ2VF1C105Z	C 1UF, Z, 16V	
C877	ECJ2VF1C105Z	C 1UF, Z, 16V	
C878	ECA1VM101B	E 100UF, 35V	
C879	ECJ2VF1C474Z	C 0.47UF, Z, 16V	
C880	ECA1EM101B	E 100UF, 25V	
C881	ECA1HM100B	E 10UF, 50V	
C883	EEUFC1C221B	E 220UF, 16V	
C884	ECJ2VF1C105Z	C 1UF, Z, 16V	
C885	ECA1CM101B	E 100UF, 16V	
C886	ECJ2VF1C105Z	C 1UF, Z, 16V	
C887	F2A1C471A116	E 470UF, 16V	
C888	ECJ2VF1C105Z	C 1UF, Z, 16V	
C889	ECJ2VF1C104Z	C 0.1UF, Z, 16V	
C2152	ECJ2VC1H010C	C 1PF, C, 50V	
C2801	ECA1HM010B	E 1UF, 50V	
C2802	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C2804	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2805	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C2806	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C2808	ECJ2VC1H102J	C 1000PF, J, 50V	
C2810	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C2811	ECA1HM010B	E 1UF, 50V	
C2812	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C2813	ECJ2VC1H181J	C 180PF, J, 50V	
C2814	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C2818	ECJ2VC1H102J	C 1000PF, J, 50V	
C2830	ECA1CM101B	E 100UF, 16V	
C2850	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C2851	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3001	ECA1HM101B	E 100UF, 50V	
C3002	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3003	ECA1HM101B	E 100UF, 50V	
C3004	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3005	ECA1HM101B	E 100UF, 50V	
C3006	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3007	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C3008	ECEA1CN100U	E 10UF, 16V	
C3010	ECA1CM100B	E 10UF, 16V	
C3011	ECA1CM100B	E 10UF, 16V	
C3012	ECEA1CN100U	E 10UF, 16V	
C3013	ECJ2VC1H680J	C 68PF, J, 50V	
C3020	ECA1CM100B	E 10UF, 16V	
C3021	ECA1CM100B	E 10UF, 16V	
C3022	ECA1CM100B	E 10UF, 16V	
C3025	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3026	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3027	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3028	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3030	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3031	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3032	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3033	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3034	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3035	ECJ2VB1H682K	C 6800PF, K, 50V	
C3036	ECJ2VB1H682K	C 6800PF, K, 50V	
C3039	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3041	ECJ2VC1H221J	C 220PF, J, 50V	
C3042	ECJ2VC1H391J	C 390PF, J, 50V	
C3053	ECA1CM100B	E 10UF, 16V	
C3055	ECA1CM470B	E 47UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3056	ECJ2VB1C104K	C 0.1UF, K, 16V	
C3062	ECJ2VB1H682K	C 6800PF, K, 50V	
C3063	ECJ2VB1H682K	C 6800PF, K, 50V	
C3064	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3074	ECJ2VB1H682K	C 6800PF, K, 50V	
C3075	ECJ2VB1H682K	C 6800PF, K, 50V	
C3080	ECJ2VC1H102J	C 1000PF, J, 50V	
C3081	ECJ2VC1H102J	C 1000PF, J, 50V	
C3082	ECA1AM102B	E 1000UF, 10V	
C3083	ECA1HM010B	E 1UF, 50V	
C3084	ECA1HM010B	E 1UF, 50V	
C3103	ECJ2VB1H682K	C 6800PF, K, 50V	
C3104	ECJ2VB1H682K	C 6800PF, K, 50V	
C3105	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3106	ECA1CM101B	E 100UF, 16V	
C3107	ECQV1H105JM	P 1UF, J, 50V	
C3110	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3111	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3501	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	ECJ2VF1H103Z	C 0.01UF, Z, 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	ECEA0JKA331	E 330UF, 6.3V	
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	
C5580	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5581	ECEA1CKN220	E 22UF, 16V	
C5585	ECJ2VC1H150J	C 15PF, J, 50V	
C5586	ECJ2VC1H560J	C 56PF, J, 50V	
C5587	ECJ2VC1H150J	C 15PF, J, 50V	
C5588	ECJ2VC1H121J	C 120PF, J, 50V	
C5590	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5591	ECEA1EKN4R7	E 4.7UF, 25V	
C5595	ECA1CM470B	E 47UF, 16V	
C5596	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
	COILS		
L10	K1ZZ00001205	CONNECTOR	
L101	EXCELDR35V	CORE	
L111	TLTACTR56K	PEAKING COIL	
L140	TALV35VB8R2K	PEAKING COIL	
L180	TALV35VB6R8K	PEAKING COIL	
L188	EXCELSA35T	BEAD CORE	
L189	EXCELSA35T	BEAD CORE	
L352	EXCELSA24T	BEAD CORE	
L401	TALL08T680KA	INDUCTION COIL	
L460	G0CR82KA0029	PEAKING COIL	
L511	EXCELSA39V	BEAD CORE	
L512	EXCELSA39V	BEAD CORE	
L515	EXCELSA35T	BEAD CORE	
L551	EXCELDR35C	BEAD CORE	
L552	EXCELSA39V	BEAD CORE	
L553	EXCELDR35C	BEAD CORE	
L630	TALV35VB680K	PEAKING COIL	
L690	TALV35VB680K	PEAKING COIL	
L691	TALV35VB680K	PEAKING COIL	
L701	G0A682AA0006	PEAKING COIL	
L702	ELC16B391E	CHOKE COIL	
L704	G0A332BA0007	CHOKE COIL	
L705	ELH5L7121	LINEARITY COIL	
L760	ELC16B102E	CHOKE COIL	
L761	G0A332C00003	CHOKE COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L801	TLP4GD016P	LINE FILTER	
L802	TLP4GD016P	LINE FILTER	
L815	EXCELSA39E	BEAD CHOKE	
L820	EXCELSA39E	BEAD CHOKE	
L821	EXCELSA35T	BEAD CORE	
L822	EXCELDR35V	CORE	
L850	TALL08T470KA	INDUCTION COIL	
L855	EXCELSA35T	BEAD CORE	
L864	TALL08T470KA	INDUCTION COIL	
L871	EXCELDR35V	CORE	
L880	G0A6R8HA0011	CHOKE COIL	
D355	MA152KTX	DIODE	
D356	MA152KTX	DIODE	
D357	MTZJ15B	ZENER DIODE	
D360	ERA22-04	DIODE	
D361	ERA22-04	DIODE	
D362	ERA22-04	DIODE	
D363	MA152KTX	DIODE	
D365	MTZJ10C	ZENER DIODE	
D375	MA152KTX	DIODE	
D402	AK04	DIODE	
D466	MTZJ39E	ZENER DIODE	
D467	ERA15-01	DIODE	
D468	MTZJ39E	ZENER DIODE	
D469	MTZJ39E	ZENER DIODE	
D470	MA167	DIODE	
D471	MA167	DIODE	
D511	MA152KTX	DIODE	
D512	MA182	DIODE	
D513	AU02	DIODE	
D515	B0HAMP000054	DIODE	
D517	MTZJ12B	ZENER DIODE	
D530	MA4104J	DIODE	
D531	MA171	DIODE	
D552	B0HANV000002	DIODE	
D553	RU3ANLFA10	DIODE	
D554	MA185	DIODE	
D580	MTZJ10C	ZENER DIODE	
D582	MA4082H	DIODE	
D583	MA4082H	DIODE	
D612	MA3068MTX	DIODE	
D613	MA3068MTX	DIODE	
D614	MA3068MTX	DIODE	
D731	MA152KTX	DIODE	
D732	MA152KTX	DIODE	
D733	MA152KTX	DIODE	
D734	MA152KTX	DIODE	
D750	MA165	DIODE	
D751	MA4104J	DIODE	
D752	MA165	DIODE	
D765	MA165	DIODE	
D766	MTZJ10C	ZENER DIODE	
D767	MA29W-A	DIODE	
D768	MA29W-A	DIODE	
D770	MTZJ6.2C	ZENER DIODE	
D801	ERZV10D621CS	VARISTOR	⚠
D803	D4SB80	DIODE	⚠
D804	TAP4GA0009	POSISTOR	⚠
D805	TAP4GA0009	POSISTOR	⚠
D810	B0EAKT000019	DIODE	
D813	AM01A	DIODE	
D814	AM01A	DIODE	
D817	AG01Z	DIODE	
D818	MAZ2360	DIODE	
D819	MTZJ24A	ZENER DIODE	
D820	MAZ20820A0LS	DIODE	
D821	MAZ20820A0LS	DIODE	
D822	MAZ20820A0LS	DIODE	
D823	AG01Z	DIODE	
D824	AG01Z	DIODE	
D830	AG01Z	DIODE	
D831	B0BA02400029	ZENER DIODE	
D840	MA152KTX	DIODE	
D850	FMGG2CSLF665	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D851	FMLG12S	DIODE	
D852	AG01Z	DIODE	
D853	RU4AMLF-M1	DIODE	
Q115	2SC2480TX	TRANSISTOR	
Q116	2SD0601A0L	TRANSISTOR	
Q140	2SC2480TX	TRANSISTOR	
Q180	2SB709ATX	TRANSISTOR	
Q181	2SD0601A0L	TRANSISTOR	
Q182	2SD0601A0L	TRANSISTOR	
Q183	2SD0601A0L	TRANSISTOR	
Q369	2SB709ATX	TRANSISTOR	
Q501	2SD0601A0L	TRANSISTOR	
Q502	2SB709ATX	TRANSISTOR	
Q520	2SD0601A0L	TRANSISTOR	
Q541	2SC4212H	TRANSISTOR	
Q551	2SC5902000LK	TRANSISTOR	
Q585	2SB709ATX	TRANSISTOR	
Q601	2SD0601A0L	TRANSISTOR	
Q640	2SB709ATX	TRANSISTOR	
Q641	2SB709ATX	TRANSISTOR	
Q662	2SD0601A0L	TRANSISTOR	
Q680	2SD0601A0L	TRANSISTOR	
Q691	2SD0601A0L	TRANSISTOR	
Q750	2SA1018Q	TRANSISTOR	
Q760	2SB709ATX	TRANSISTOR	
Q840	2SD0601A0L	TRANSISTOR	
Q860	2SD0601A0L	TRANSISTOR	
Q864	2SD0601A0L	TRANSISTOR	
Q865	2SD0601A0L	TRANSISTOR	
Q945	2SD0601A0L	TRANSISTOR	
Q953	2SC1318	TRANSISTOR	
Q954	2SB1030A	TRANSISTOR	
Q955	2SA21180PSLB	TRANSISTOR	
Q956	2SC59350PSLB	TRANSISTOR	
Q957	2SB709ATX	TRANSISTOR	
Q958	2SD0601A0L	TRANSISTOR	
Q962	2SD0601A0L	TRANSISTOR	
Q963	2SC54190RA	TRANSISTOR	
Q964	2SB14880QA	TRANSISTOR	
Q1051	2SD0601A0L	TRANSISTOR	
Q1140	2SD0601A0L	TRANSISTOR	
Q1144	2SD0601A0L	TRANSISTOR	
Q1160	2SD0601A0L	TRANSISTOR	
Q1170	2SB709ATX	TRANSISTOR	
Q1171	2SB709ATX	TRANSISTOR	
Q1172	2SB709ATX	TRANSISTOR	
Q2110	2SB709ATX	TRANSISTOR	
Q2111	2SB709ATX	TRANSISTOR	
Q2801	2SD0601A0L	TRANSISTOR	
Q2830	2SB709ATX	TRANSISTOR	
Q3001	2SD0601A0L	TRANSISTOR	
Q3010	2SD0601A0L	TRANSISTOR	
Q3011	2SB709ATX	TRANSISTOR	
Q3040	2SB709ATX	TRANSISTOR	
Q3041	2SB709ATX	TRANSISTOR	
Q3042	2SB709ATX	TRANSISTOR	
Q3105	2SD0601A0L	TRANSISTOR	
Q3520	2SD0601A0L	TRANSISTOR	
Q3521	2SB709ATX	TRANSISTOR	
Q3580	2SB709ATX	TRANSISTOR	
Q3590	2SB709ATX	TRANSISTOR	
Q4801	2SD0601A0L	TRANSISTOR	
Q4802	B1ABCF000078	TRANSISTOR	
Q5501	2SD0601A0L	TRANSISTOR	
Q5502	2SD0601A0L	TRANSISTOR	
Q5503	2SB709ATX	TRANSISTOR	
Q5504	2SD0601A0L	TRANSISTOR	
Q5505	2SB709ATX	TRANSISTOR	
Q5520	2SD0601A0L	TRANSISTOR	
JA51	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA52	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA53	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA54	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA55	ERJ6GEY0R00	M 0OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
JA56	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA60	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA61	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA70	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA71	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA75	ERJ6GEY0R00	M 0OHM,J,1/10W	
JK351	K3B122A00001	CRT SOCKET	⚠
JK3001	K4BC21A00002	REAR AV TERMINAL	
JK3101	K4BK07B00006	FRONT AV TERMINAL	
JS184	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS364	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS876	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS877	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS880	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS1140	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS1141	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS1142	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS1143	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS1144	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS2331	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3030	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3031	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3064	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3065	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3071	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3072	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3080	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3081	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3102	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3501	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3502	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3503	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3504	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3505	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3506	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3507	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3510	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3511	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3520	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3530	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3532	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3533	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3550	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3551	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3553	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3554	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3560	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3561	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3562	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3565	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3585	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS5507	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS5541	ERJ6GEY0R00	M 0OHM,J,1/10W	
L2	TJS118590	2P CONNECTOR	
L23	TJS3A9680	7P CONNECTOR	
L41	TJS3A9680	7P CONNECTOR	
RL801	K6B1ADA00010	RELAY	⚠
RT1	TJS3A9640	3P CONNECTOR	
RT2	TJS3A9640	3P CONNECTOR	
S801	ESB92DA1B	SWITCH	⚠
S1180	EVQ11G05R	SWITCH	
R351	ER0S2CKF1001	M 1KOHM,F, 1/4W	
R352	ER0S2CKF1001	M 1KOHM,F, 1/4W	
R353	ER0S2CKF1001	M 1KOHM,F, 1/4W	
R354	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R355	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R356	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R357	ER0S2CKF1541	M1.54KOHM,F, 1/4W	
R358	ERG12DJ124	M 120KOHM,J, 1/2W	
R359	ERG12DJ124	M 120KOHM,J, 1/2W	
R360	ERG12DJ124	M 120KOHM,J, 1/2W	
R361	ERJ6ENF2002	M 20KOHM, 1/10W	
R362	ERJ6ENF4701	M 4.7KOHM, 1/10W	
R363	ERC12GK222	S 2.2KOHM,K, 1/2W	

Ref. No.	Part No.	Part Name & Description	Remarks
R364	ERC12GK222	S 2.2KOHM,K, 1/2W	
R365	ERC12GK222	S 2.2KOHM,K, 1/2W	
R369	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R371	ER0S2CKF1541	M1.54KOHM,F, 1/4W	
R372	ER0S2CKF1541	M1.54KOHM,F, 1/4W	
R374	ERQ12AJ181P	F 180OHM,J, 1/2W	
R381	ERJ6GEY0R00	M 0OHM,J,1/10W	
R401	ERDS1TJ271	C 270OHM,J, 1/2W	
R402	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R403	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R468	ER0S2CHF4871	M4.87KOHM,F, 1/4W	
R469	ER0S2CHF3741	M3.74KOHM,F, 1/4W	
R471	ERDS2TJ682	C 6.8KOHM,J, 1/4W	
R472	ERDS2TJ393	C 39KOHM,J, 1/4W	
R473	ER0S2CHF4301	M 4.3KOHM,F, 1/4W	
R474	ERDS2TJ333	C 33KOHM,J, 1/4W	
R475	ERDS1FJ1R0	C 1OHM,J, 1/2W	
R476	ERDS1FJ1R0	C 1OHM,J, 1/2W	
R477	ERG2ANJP221H	M 220OHM,J, 2W	
R478	ERDS1FJ1R5	C 1.5OHM,J, 1/2W	
R479	ERG2ANJP102H	M 1KOHM,J, 2W	
R501	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R502	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R503	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R504	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R505	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R506	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R507	ERDS2TJ104	C 100KOHM,J, 1/4W	
R508	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R509	ERJ6GEYJ474	M 470KOHM,J,1/10W	
R510	ERJ6GEYJ824	M 820KOHM,J,1/10W	
R512	ERDS2TJ223	C 22KOHM,J, 1/4W	
R513	ERQ14AJ2R0E	F 2.0OHM,J, 1/4W	
R514	ERDS1TJ394	C 390KOHM,J, 1/2W	
R515	ERQ1RJW1R0E	F 1OHM,J, 1W	
R519	ERDS2TJ102	C 1KOHM,J, 1/4W	
R520	ERG1SJ333E	M 33KOHM,J, 1W	
R521	ER050CHF5902	M 59KOHM,F, 1/2W	
R522	ERJ6ENF1502	M 15KOHM, 1/10W	
R523	ERJ6ENF1502	M 15KOHM, 1/10W	
R524	ERJ6ENF3902	M 39KOHM, 1/10W	
R525	ERJ6ENF2202	M 22KOHM, 1/10W	
R526	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R530	ERQ14AJ100E	F 10OHM,J, 1/4W	
R531	ER0S2CKF1152	M11.5KOHM,F, 1/4W	
R532	ER0S2CKF1052	M10.5KOHM,F, 1/4W	
R533	ER0S2CKF1002	M 10KOHM,F, 1/4W	
R540	ERDS2TJ561	C 560OHM,J, 1/4W	
R541	ERDS2TJ241	C 240OHM,J, 1/4W	
R542	ERG3FJ392H	M 3.9KOHM,J, 3W	
R544	ERG3FJ122	M 1.2KOHM,J, 3W	
R579	ER0S2CHF4221	M4.22KOHM,F, 1/4W	
R765	ERQ12HJ150P	F 15OHM,J, 1/2W	
R766	ERJ6GEY0R00	M 0OHM,J,1/10W	
R767	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R768	ERQ2CJP2R7S	F 2.7OHM,J, 2W	
R769	ERG2SJ821E	M 820OHM,J, 2W	
R770	ERJ6GEYJ563	M 56KOHM,J,1/10W	
R771	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R772	ERG1SJ101E	M 100OHM,J, 1W	
R773	D0AE622JA046	C 6.2KOHM,J, 1/4W	
R774	ERJ6GEYJ101	M 100OHM,J,1/10W	
R801	TAR26FJ2R7Z	W 2.7OHM, 15W	⚠
R810	ERG2FJ470	M 47OHM,J, 2W	
R811	ERG2SJS104H	M 100KOHM,J, 2W	
R814	ERQ12AJ100P	F 10OHM, 1/2W	
R817	ERDS1TJ100	C 10OHM,J, 1/2W	
R818	ERG2FJ562H	M 5.6KOHM,J, 2W	
R819	ERG5FJ473H	M 47KOHM,J, 5W	
R820	ERX12SZJR12E	M 0.12OHM,J, 1/2W	
R821	ERX12SZJR15E	M 0.15OHM,J, 1/2W	
R824	ERDS2TJ332	C 3.3KOHM,J, 1/4W	
R825	ERDS2TJ152	C 1.5KOHM,J, 1/4W	
R827	ERDS2TJ154	C 150KOHM,J, 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
R830	ERDS2TJ221	C 220OHM,J, 1/4W	
R831	ERDS2TJ273	C 27KOHM,J, 1/4W	
R840	ERD75TAJ825	C 8.2MOHM,J, 3/4W	
R841	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R842	ERJ6GEYJ331	M 330OHM,J,1/10W	
R850	ERDS1TJ102	C 1KOHM,J, 1/2W	
R851	ERDS2TJ102	C 1KOHM,J, 1/4W	
R859	ERX5FJ3R0	M 3OHM,J, 5W	
R861	ERDS1TJ102	C 1KOHM,J, 1/2W	
R862	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R868	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R870	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R871	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R874	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R880	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R881	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R882	ERJ6ENF5362	M53.6KOHM, 1/10W	
R883	ER0S2CHF1502	M 15KOHM,F, 1/4W	
R884	ERJ6GEYJ681	M 680OHM,J,1/10W	
R885	ERJ6GEY0R00	M 0OHM,J,1/10W	
R952	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R953	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R954	ERJ6GEYJ331	M 330OHM,J,1/10W	
R956	ERJ6GEYJ510	M 51OHM,J,1/10W	
R958	ERJ6GEYJ391	M 390OHM,J,1/10W	
R960	ERQ14AJ100E	F 10OHM,J, 1/4W	
R961	ERQ1CJP331S	F 330OHM,J, 1W	
R962	ERDS2TJ330	C 33OHM,J, 1/4W	
R963	ERDS2TJ330	C 33OHM,J, 1/4W	
R964	ERQ14AJ471E	F 470OHM,J, 1/4W	
R965	ERDS2TJ223	C 22KOHM,J, 1/4W	
R966	ERDS1FVJ471T	C 470OHM,J, 1/2W	
R967	ERDS2TJ223	C 22KOHM,J, 1/4W	
R968	ERDS2TJ471	C 470OHM,J, 1/4W	
R969	ERDS2TJ390	C 39OHM,J, 1/4W	
R970	ERDS2TJ2R7	C 2.7OHM,J, 1/4W	
R971	ERDS2TJ2R7	C 2.7OHM,J, 1/4W	
R972	ERDS2TJ390	C 39OHM,J, 1/4W	
R973	ERDS2TJ101	C 100OHM,J, 1/4W	
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	
R980	ERDS2TJ104	C 100KOHM,J, 1/4W	
R2101	ERDS1FJ150	C 15OHM,J, 1/2W	
R2104	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R2110	ERJ6GEY0R00	M 0OHM,J,1/10W	
R2111	ERJ6GEY0R00	M 0OHM,J,1/10W	
R2112	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R2113	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R2116	ERJ6GEYJ101	M 100OHM,J,1/10W	
R2117	ERJ6GEYJ101	M 100OHM,J,1/10W	
R2140	ERJ6GEYJ471	M 470OHM,J,1/10W	
R2141	ERJ6GEYJ101	M 100OHM,J,1/10W	
R2801	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R2803	ERDS2TJ8R2	C 8.2OHM,J, 1/4W	
R2804	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R2805	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R2806	ERJ6GEYJ123	M 12KOHM,J,1/10W	
R2813	ERDS2TJ8R2	C 8.2OHM,J, 1/4W	
R2814	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R2815	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R2830	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R2831	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R2832	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R2850	ERJ6GEYJ471	M 470OHM,J,1/10W	
R2851	ERJ6GEYJ471	M 470OHM,J,1/10W	
R3001	ERJ6GEYJ561	M 560OHM,J,1/10W	
R3005	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3006	ERJ6GEYJ511	M 510OHM,J,1/10W	
R3009	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3010	ERJ6GEYJ750	M 75OHM, 1/10W	
R3011	ERJ6GEYJ750	M 75OHM, 1/10W	
R3013	ERJ6GEYJ750	M 75OHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3014	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R3015	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R3016	ERJ6GEYJ681	M 680OHM,J,1/10W	
R3017	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3018	ERJ6GEYJ121	M 120OHM,J,1/10W	
R3019	ERJ6GEYJ390	M 39OHM,J,1/10W	
R3020	ERJ6GEYJ750	M 75OHM, 1/10W	
R3021	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3022	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3023	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3025	ERJ6GEYJ750	M 75OHM, 1/10W	
R3026	ERJ6GEYJ750	M 75OHM, 1/10W	
R3027	ERJ6GEYJ750	M 75OHM, 1/10W	
R3028	ERJ6GEYJ221	M 220OHM,J,1/10W	
R3029	ERJ6GEYJ221	M 220OHM,J,1/10W	
R3030	ERJ6GEYJ221	M 220OHM,J,1/10W	
R3031	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3032	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3033	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3034	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3039	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3043	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3044	ERJ6GEYJ681	M 680OHM,J,1/10W	
R3045	ERJ6GEYJ681	M 680OHM,J,1/10W	
R3050	ERJ6GEYJ750	M 75OHM, 1/10W	
R3051	ERJ6GEYJ750	M 75OHM, 1/10W	
R3052	ERJ6GEYJ750	M 75OHM, 1/10W	
R3053	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3060	ERJ6GEYJ750	M 75OHM, 1/10W	
R3061	ERJ6GEYJ750	M 75OHM, 1/10W	
R3062	ERJ6GEYJ750	M 75OHM, 1/10W	
R3066	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3067	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R3068	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3069	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3070	ERJ6GEYJ750	M 75OHM, 1/10W	
R4806	ERJ6ENF3320	M 332OHM, 1/10W	
R4807	ERJ6ENF1001	M 1KOHM, 1/10W	
R4808	ERJ6ENF3832	M38.3KOHM, 1/10W	
R4809	ERJ6ENF9091	M9.09KOHM, 1/10W	
R4810	ERJ6ENF2213	M 221KOHM, 1/10W	
R4811	ERJ6ENF5491	M5.49KOHM, 1/10W	
R4812	ER0S2CKF5621	M5.62KOHM,F, 1/4W	
R4815	ERDS1FJ100	C 10OHM,J, 1/2W	
R4816	ERDS1FJ390	C 39OHM,J, 1/2W	
R4829	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R4837	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R4840	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4841	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R4842	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4843	ERJ6GEYJ471	M 470OHM,J,1/10W	
R4844	ERJ6GEYJ561	M 560OHM,J,1/10W	
R4850	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R4853	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R4855	ERJ6GEYJ101	M 100OHM,J,1/10W	
R4857	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R4862	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	
R4863	EVMEGSA00B23	VARIABLE RESISTOR	
R5501	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R5502	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5503	ERJ6GEYJ152	M 1.5KOHM,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	
R5520	ERJ6GEYJ331	M 330OHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R5521	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R5522	ERJ6GEYJ561	M 560OHM,J,1/10W	
R5525	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R5526	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R5527	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R5528	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R5529	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R5530	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R5531	ERJ6GEYJ681	M 680OHM,J,1/10W	
R5532	ERJ6GEYJ271	M 270OHM,J,1/10W	
R5533	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R5534	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R5535	ERJ6GEYJ101	M 100OHM,J,1/10W	
R5540	ERJ6GEYJ151	M 150OHM,J,1/10W	
R5541	ERJ6GEYJ202	M 2KOHM,J,1/10W	
R5542	ERJ6GEYJ101	M 100OHM,J,1/10W	
R5543	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R5544	ERJ6GEYJ223	M 22KOHM,J,1/10W	
R5545	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R5546	ERJ6GEYJ561	M 560OHM,J,1/10W	
R5547	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R5548	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R5550	ERJ6GEYJ102	M 1KOHM,J,1/10W	
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	
C452	ECJ2VC1H102J	C 1000PF, J, 50V	
C474	ECA1HM010B	E 1UF, 50V	
C475	ECA1VM221B	E 220UF, 35V	
C476	ECA1VM222E	E 2200UF, 35V	
C477	ECA1HM2R2B	E 2.2UF, 50V	
C478	ECQB1104JF	P 0.1UF, J,100V	
C479	ECQB1274JF	P 0.27UF, J,100V	
C501	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C509	ECA1HM010B	E 1UF, 50V	
C511	ECQM1393KZ	P 0.039UF, K,100V	
C512	ECEA2CNR47S	E 0.47UF, 160V	
C513	ECA2EM220B	E 22UF, 250V	
C514	ECKR2H331KB5	C 330PF, K,500V	
C515	ECKR2H471KB5	C 470PF, K,500V	
C516	ECA1VM332E	E 3300UF, 35V	
C520	ECQM4822JZ	P 8200PF, J,400V	
C530	ECA1HM100B	E 10UF, 50V	
C531	ECKR2H271KB5	C 270PF, K,500V	
C533	ECA1VM470B	E 47UF, 35V	
C534	ECQV1H104JL	P 0.1UF, J, 50V	
C535	ECA160V33UE	E 33UF, 160V	
C543	ECKR2H332KB5	C 3300PF, K,500V	
C544	L7Y5P4B222K	C 2200PF, K,500V	
C551	ECWH20102JVY	P 1000PF,J, 2KV	
C553	ECQP1223JZ	P 0.022UF, J,100V	
C554	ECWH20272JVY	P 2700PF,J, 2KV	
C559	ECQM4333JZ	P 0.033UF, 400V	
C560	ECWH20123JVB	P 0.012UF,J, 2KV	
C561	ECQM4473JZ	P 0.047UF, J,400V	
C582	ECJ2FB1H473K	C 0.047UF, K, 50V	
C583	ECJ2VC1H120J	C 12PF, J, 50V	
C585	ECA1HM4R7B	E 4.7UF, 50V	
C586	ECA1HM470B	E 47UF, 50V	
C601	ECA1HMR47B	E 0.47UF, 50V	
C602	ECA1HM100B	E 10UF, 50V	
C604	ECJ2VC1H100C	C 10PF, C, 50V	
C605	F2A1HR22A182	E 0.22UF, 50V	
C606	ECJ2VB1H222K	C 2200PF, K, 50V	
C607	ECA1HMR47B	E 0.47UF, 50V	
C608	ECJ2VC1H331J	C 330PF, J, 50V	
C609	ECJ2VB1H333K	C 0.033UF, K, 50V	
C610	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C611	ECA1HM470B	E 47UF, 50V	
C615	ECJ2VF1C105Z	C 1UF, Z, 16V	
C623	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C624	ECJ2VF1H104Z	C 0.1UF, Z, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C625	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C630	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C631	ECA1HM470B	E 47UF, 50V	
C645	ECJ2VF1C105Z	C 1UF, Z, 16V	
C655	ECJ2VF1C105Z	C 1UF, Z, 16V	
C657	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C658	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C665	ECA1HM100B	E 10UF, 50V	
C666	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C667	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C670	ECJ2VF1C105Z	C 1UF, Z, 16V	
C671	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C672	ECJ2VF1C105Z	C 1UF, Z, 16V	
C673	ECJ2VF1C105Z	C 1UF, Z, 16V	
C674	ECJ2VB1H472K	C 4700PF, K, 50V	
C676	ECJ2VC1H221J	C 220PF, J, 50V	
C680	ECJ2VB1H222K	C 2200PF, K, 50V	
C681	ECA1HMR47B	E 0.47UF, 50V	
C682	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C690	ECA1HM100B	E 10UF, 50V	
C904	F1B1H103A013	C 0.01UF, 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	ECCR2H151J	C 150PF, J,500V	
C961	ECA2AM100B	E 10UF, 100V	
C962	ECKW2H103ZF7	C 0.01UF, Z,500V	
C963	ECCR2H151J	C 150PF, J,500V	
C964	ECA1CHG101	E 100UF, 16V	
C965	ECA2CM220B	E 22UF, 160V	
C966	ECA1CHG101	E 100UF, 16V	
C967	ECA1CM221B	E 220UF, 16V	
C971	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C980	ECA1CM101B	E 100UF, 16V	
C1051	ECUX1H101JCX	C 100PF, J, 50V	
C1052	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1053	ECA1CM221B	E 220UF, 16V	
C1101	ECJ2VC1H471J	C 470PF, J, 50V	
C1102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1103	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1104	ECJ2VC1H102J	C 1000PF, J, 50V	
C1120	ECA1HM4R7B	E 4.7UF, 50V	
C1121	ECA1HM4R7B	E 4.7UF, 50V	
C1131	ECJ2VC1H560J	C 56PF, J, 50V	
C1132	ECJ2VC1H560J	C 56PF, J, 50V	
C1133	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C1134	ECA0JM221B	E 220UF, 6.3V	
C1145	ECJ2VC1H680J	C 68PF, J, 50V	
C1150	ECUX1H151JCX	C 150PF, J, 50V	
C1151	ECUX1H151JCX	C 150PF, J, 50V	
C1152	ECUX1H151JCX	C 150PF, J, 50V	
C1155	ECA1CM471B	E 470UF, 16V	
C1156	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1157	ECA1CM471B	E 470UF, 16V	
C1158	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1180	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C2101	ECA1CM101B	E 100UF, 16V	
C2102	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2103	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C2110	ECJ2VC1H102J	C 1000PF, J, 50V	
C2111	ECJ2VC1H102J	C 1000PF, J, 50V	
C2113	ECA1CM100B	E 10UF, 16V	
C2114	ECA1CM100B	E 10UF, 16V	
C2115	ECA1HM101B	E 100UF, 50V	
C2116	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2120	ECA1HM3R3B	E 3.3UF, 50V	
C2121	ECJ2VF1C105Z	C 1UF, Z, 16V	
C2124	ECA1HM100B	E 10UF, 50V	
C2125	ECJ2VF1C105Z	C 1UF, Z, 16V	
C2126	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2127	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2128	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2129	ECJ2VB1C104K	C 0.1UF, K, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2132	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2133	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2140	ECA1CM470B	E 47UF, 16V	
C2141	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2142	ECA1CM101B	E 100UF, 16V	
C2143	ECJ2VB1C104K	C 0.1UF, K, 16V	
C2145	ECJ2VC1H560J	C 56PF, J, 50V	
C2146	ECJ2VC1H560J	C 56PF, J, 50V	
C2148	ECJ2VC1H470J	C 47PF, J, 50V	
C2149	ECJ2VC1H070D	C 7PF, D, 50V	
C2150	ECJ2VC1H470J	C 47PF, J, 50V	
C2151	ECJ2VC1H010C	C 1PF, C, 50V	
C3502	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3503	ECUX1H330JCX	C 33PF, J, 50V	
C3504	ECUX1H330JCX	C 33PF, J, 50V	
C3505	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3506	ECA1CM471B	E 470UF, 16V	
C3507	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3508	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3509	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3510	ECA1HM100B	E 10UF, 50V	
C3511	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3512	ECA1HM100B	E 10UF, 50V	
C3513	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3520	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3521	ECUX1H151JCX	C 150PF, J, 50V	
C3522	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3523	ECEA1CN100U	E 10UF, 16V	
C3545	ECA1CM101B	E 100UF, 16V	
C3546	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3550	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3551	ECA1CM100B	E 10UF, 16V	
C3552	ECUX1H101JCX	C 100PF, J, 50V	
C3553	ECUX1H101JCX	C 100PF, J, 50V	
C3560	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C3561	ECA1CM100B	E 10UF, 16V	
C3580	ECJ2VC1H121J	C 120PF, J, 50V	
C3586	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C3587	ECA1CM221B	E 220UF, 16V	
C4801	ECEA1EKS4R7	E 4.7UF, 25V	
C4803	ECQV1H334JM	P 0.33UF, J, 50V	
C4804	ECQV1H334JM	P 0.33UF, J, 50V	
C4805	ECA1VM470B	E 47UF, 35V	
C4806	ECA1HM4R7B	E 4.7UF, 50V	
C4808	ECEA1EKS330	E 33UF, 25V	
C4811	ECJ2VB1H103K	C 0.01UF, K, 50V	
C4812	ECA1HM100B	E 10UF, 50V	
C4813	ECA1CM101B	E 100UF, 16V	
C4814	ECA1CM101B	E 100UF, 16V	
C4822	ECHU1C103JA5	P 0.01UF, J, 16V	
C4824	ECEA1CN100U	E 10UF, 16V	
C4825	EEUFC1C560B	E 56UF, 16V	
C5501	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5502	ECA1CM470B	E 47UF, 16V	
C5503	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C5504	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5510	ECA1CM101B	E 100UF, 16V	
C5511	ECJ2VC1H680J	C 68PF, J, 50V	
C5512	ECEA1AKN470	E 47UF, 10V	
C5513	ECUX1H101JCX	C 100PF, J, 50V	
C5514	ECJ2VC1H181J	C 180PF, J, 50V	
C5520	ECA1CM101B	E 100UF, 16V	
C5526	ECUX1H151JCX	C 150PF, J, 50V	
C5540	ECJ2VB1H222K	C 2200PF, K, 50V	
C5541	ECEA1HKA100	E 10UF, 50V	
C5542	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5543	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5544	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5545	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C5547	ECUX1H330JCX	C 33PF, J, 50V	
C5548	ECUX1H330JCX	C 33PF, J, 50V	
C5549	ECUX1H330JCX	C 33PF, J, 50V	
C5551	ECJ2VB1H103K	C 0.01UF, K, 50V	
C5552	ECJ2VF1H103Z	C 0.01UF, Z, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C5553	ECEA0JKA331	E 330UF, 6.3V	
C5554	ECEA0JKA221	E 220UF, 6.3V	
C5555	ECEA1CKA101	E 100UF, 16V	
C5556	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
L881	G0A6R8HA0011	CHOKE COIL	
L882	EXCELSA39V	BEAD CORE	
L889	EXCELSA35T	BEAD CORE	
L951	EXCELSA24T	BEAD CORE	
L953	EXCELSA24T	BEAD CORE	
L954	EXCELSA24T	BEAD CORE	
L955	EXCELSA24T	BEAD CORE	
L1102	EXCELSA35T	BEAD CORE	
L1103	EXCELDR35V	CORE	
L1104	EXCELSA35T	BEAD CORE	
L1156	EXCELSA35T	BEAD CORE	
L1160	EXCELSA35T	BEAD CORE	
L2101	EXCELSA35T	BEAD CORE	
L2140	EXCELSA35T	BEAD CORE	
L2141	EXCELSA35T	BEAD CORE	
L2142	TALV35VB180K	PEAKING COIL	
L2306	EXCELSA35T	BEAD CORE	
L2830	EXCELSA35T	BEAD CORE	
L2831	EXCELSA35T	BEAD CORE	
L3001	G0C151JA0021	PEAKING COIL	
L3002	G0C151JA0021	PEAKING COIL	
L3003	EXCELSA35T	BEAD CORE	
L3050	TALV35VB100J	PEAKING COIL	
L3091	TALV35VB100J	PEAKING COIL	
L3104	TSK1032	BEAD CORE	
L3105	TSK1032	BEAD CORE	
L3117	ELEXT470KA	PEAKING COIL	
L3510	TALC325T4R7M	CHIP INDUCTOR COI	
L3511	TALC325T4R7M	CHIP INDUCTOR COI	
L3520	ELJFA5R6JF	CHIP INDUCTOR	
L4802	EXCELDR35V	CORE	
L4803	TLTACT100J	PEAKING COIL	
L4804	TALL08T102JA	INDUCTION COIL	
L4810	EXCELDR35V	CORE	
L5501	TALV35VB100J	PEAKING COIL	
L5510	TALV35VB100J	PEAKING COIL	
L5520	TALV35VB100J	PEAKING COIL	
L5537	EXCELDR35V	CORE	
L5538	EXCELDR35V	CORE	
L5539	EXCELDR35V	CORE	
L5550	TLTACT150J	PEAKING COIL	
L5551	G0C101J00001	PEAKING COIL	
L5552	EXCELDR25V	CORE	
L5554	EXCELDR35V	CORE	
L5555	TALV35VB100J	PEAKING COIL	
L5556	TLTACT150J	PEAKING COIL	
L5557	EXCELSA35T	BEAD CORE	
L5558	TSK1032	BEAD CORE	
L5570	TLTACT270J	PEAKING COIL 27U	
L5580	TLTACT470J	PEAKING COIL	
L5581	TLTACT180J	PEAKING COIL	
L5582	EXCELSA35T	BEAD CORE	
LC4801	L2DA00000006	GEOMAGNETIC SENSO	
	TRANSFORMERS		
T9	K1KA09B00020	CONNECTOR	
T501	ZTFN34003A	FLYBACK TRANS	⚠
T551	ETH19Y210AZ	H DRIVE TRANS	⚠
T801	G4D3Z0000001	SWITCHING TRANS	⚠
T3010	TSK1040	BEAD CORE	
T3060	TSK1040	BEAD CORE	
T3101	TSK1040	BEAD CORE	
	DIODES		
D110	B0BA01500003	ZENER DIODE	
D111	B0BA01600007	ZENER DIODE	
D120	MA858	DIODE	
D354	MA152KTX	DIODE	
D854	RU4AMLF-M1	DIODE	
D860	TLP721FD4GR	PHOTO COUPLER	⚠
D861	MTZJ20D	ZENER DIODE	
D862	MTZJ4.7B	ZENER DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D865	AG01Z	DIODE	
D870	MTZJ3.6A	ZENER DIODE	
D880	MA3043MTX	DIODE	
D980	MTZJ6.8B	ZENER DIODE	
D1051	LNH201RGRF5	LED	
D1105	MAZ40330L	DIODE	
D1130	MTZJ5.6C	ZENER DIODE	
D1131	MTZJ5.6C	ZENER DIODE	
D1140	MA152KTX	DIODE	
D1144	MAZ30360LL	ZENER DIODE	
D1150	MA152KTX	DIODE	
D1151	MA152KTX	DIODE	
D1152	MA152KTX	DIODE	
D1155	MA152KTX	DIODE	
D1156	MA3043MTX	DIODE	
D1157	MA3043MTX	DIODE	
D1162	MA152KTX	DIODE	
D1163	MA152KTX	DIODE	
D1170	MA152KTX	DIODE	
D2830	MA4047M	DIODE	
D2831	MA152KTX	DIODE	
D2832	MA152KTX	DIODE	
D2833	MA152KTX	DIODE	
D3550	MA3082MTX	DIODE	
D3580	MA152KTX	DIODE	
D4801	MA3056MTX	DIODE	
D5501	MA3062MTX	ZENER DIODE	
D5502	MA3110LTX	ZENER DIODE	
	INTEGRATED CIRCUITS		
IC351	TDA6103Q-N3	LINEAR IC	
IC451	TDA8177	IC	
IC601	C1AB00001715	IC	
IC602	AN78L05	LINEAR IC	
IC731	NJM2904M	LINEAR IC	
IC760	TEA2031A	IC	
IC801	C5HABZZ00107	IC, POWER SUPPLY	⚠
IC860	C0EAS0000026	IC	
IC880	PQ12RD1B	LINEAR IC	
IC881	C0DAFKE00001	IC, POWER SUPPLY	⚠
IC1051	B3RAC0000005	REMOTE CONTROL	
IC1101	MN101C46FTM3	IC	
IC1102	TVR4GAS194	EEPROM IC	
IC2101	MSP3410GAB83	IC	
IC2801	TDA2616/N1	IC	
IC3001	C1AB00001794	IC	
IC3002	C1AB00001162	IC	
IC3003	TDA8601T/C1	IC	
IC3101	MM1501XNRE	IC	
IC3501	C2BAHC000002	IC	
IC3502	TC7MBD3245KL	IC	
IC3503	TVR4GAS179	EEPROM IC	
IC3504	PQ1R33	LINEAR IC	
IC3505	SI-3025KS-TL	IC	
IC3506	PST9128NR	IC, LOGIC	
IC3507	TC4066BFN	IC	
IC4801	PUB4301	TRANSISTOR ARRAY	
IC4802	AN6564NS	LINEAR IC	
IC4805	TC4066BFN	IC	
IC4861	AN6562	LINEAR IC	
IC5501	MM1501XNRE	IC	
IC5550	MN82362	IC	
	TRANSISTORS		
Q5521	2SD0601A0L	TRANSISTOR	
Q5522	2SD0601A0L	TRANSISTOR	
Q5531	2SD0601A0L	TRANSISTOR	
Q5540	2SD0601A0L	TRANSISTOR	
Q5541	2SD0601A0L	TRANSISTOR	
Q5570	2SB709ATX	TRANSISTOR	
Q5580	2SD0601A0L	TRANSISTOR	
Q5581	2SD0601A0L	TRANSISTOR	
Q5582	2SD0601A0L	TRANSISTOR	
Q5583	2SD0601A0L	TRANSISTOR	
Q5584	2SD0601A0L	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q5585	2SB709ATX	TRANSISTOR	
	OTHERS		
A8	K1KB08A00054	8P CONNECTOR	
A9	K1KB09A00027	CONNECTOR	
A11	K1YB40000003	CONNECTOR	
A14	TJS118590	2P CONNECTOR	
A19	TJS118590	2P CONNECTOR	
A20	TJS4G8020	16P CONNECTOR	
A22	TJS4G8020	16P CONNECTOR	
A23	TJS3A9650	4P CONNECTOR	
A36	TJS118590	2P CONNECTOR	
A37	TJS118590	2P CONNECTOR	
A41	TJS3A9680	7P CONNECTOR	
A44	TJS4G8090	20P CONNECTOR	
A50	TJSF29207	CONNECTOR	
F801	XBA2C40TR0	FUSE 250V 4A	⚠
GM1	TJS3A9890	9P CONNECTOR	
H1	TJS3A9890	9P CONNECTOR	
H11	K1YB40000002	CONNECTOR	
H14	K1KA02B00044	2P CONNECTOR	
H19	TJS118590	2P CONNECTOR	
JA1	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA2	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA3	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA4	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA5	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA6	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA7	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA8	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA9	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA10	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA11	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA12	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA13	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA14	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA15	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA16	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA17	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA18	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA19	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA20	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA21	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA22	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA24	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA25	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA30	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA32	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA33	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA35	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA36	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA37	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA38	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA40	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA41	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA45	ERJ6GEY0R00	M 0OHM,J,1/10W	
S1181	EVQ11G05R	SWITCH	
S1182	EVQ11G05R	SWITCH	
S1183	EVQ11G05R	SWITCH	
S1184	EVQ11G05R	SWITCH	
S1185	EVQ11G05R	SWITCH	
T8	TJS3A9140	CONNECTOR	
T12	TJS3A9650	4P CONNECTOR	
TNR101	J3AAAAZ00001	TUNER	⚠
X20	TJS4G8010	16P CONNECTOR	
X22	TJS4G8010	16P CONNECTOR	
X23	TJS3A9680	7P CONNECTOR	
X101	K7256M	SAW FILTER	⚠
X102	K9351M	SAW FILTER	⚠
X180	EFCS4R5MW5	CERAMIC FILTER	
X601	H0D443400038	CRYSTAL OSC	
X1160	EF0EC1205B4	CERAMIC RESONATOR	
X2150	TSSA128	CRYSTAL OSC	
X3501	H0H600400001	CRYSTAL OSC	
YC44	TJS4G8080	20P CONNECTOR	