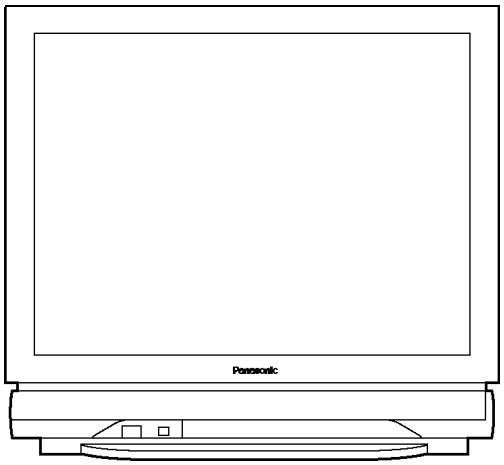
ORDER NO. ITD0012018C3

Service Manual

Colour Television



TX-80P250Z
TX-34P250T

EURO7 Chassis

Specifications

Power Source	AC 230-240 V, 50 Hz (TX-80P250Z)		
	AC 220 V, 50/60 Hz (TX-34P250T)		
Power Consumption	218 W		
	Stand-by condition 3.0 W		
Receiving System	21 Systems		Function
	1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders
	2	PAL I	
	3	PAL D, K	
	4	SECAM B, G	
	5	SECAM D, K	
	6	SECAM K1	
	7	NTSC M (NTSC 3.58/4.5 MHz)	
	8	NTSC 4.43/5.5 MHz	Playback from Special VCR´s
	9	NTSC 4.43/6.0 MHz	
	10	NTSC 4.43/6.5 MHz	
	11	NTSC 3.58/5.5 MHz	
	12	NTSC 3.58/6.0 MHz	
	13	NTSC 3.58/6.5 MHz	
	14	SECAM I	
	15	PAL 60 Hz/5.5 MHz	Playback from Special Disc Players and Special VCR´s
	16	PAL 60 Hz/6.0 MHz	
	17	PAL 60 Hz/6.5 MHz	
	18	SECAM 60 Hz/5.5 MHz	
	19	SECAM 60 Hz/6.0 MHz	
	20	SECAM 60 Hz/6.5 MHz	
	21	NTSC 50 Hz/4.5 MHz	

Panasonic®

Receiving Channels	Regular TV		
	VHF BAND	**UHF BAND**	
	2-12 (PAL/SECAM B, K1)	21-69 (PAL G, H, I/SECAM G, K, K1)	
	0-12 (PAL B AUST.)	28-69 (PAL B AUST.)	
	1-9 (PAL B N.Z)	13-57 (PAL D, K)	
	1-12 (PAL/SECAM D)	13-62 (NTSC M Japan)	
	1-12 (NTSC M Japan)	14-69 (NTSC M U.S.A.)	
	2-13 (NTSC M U.S.A.)		
	CATV		
	S1-S20 (OSCAR)		
	1-125 (U.S.A. CATV)		
	C13-C49 (JAPAN)		
	S21-S41 (HYPER)		
	Z1-Z37 (CHINA)		
	4A, 9A (AUST.)		
Receiving Stereo System	NICAM I, NICAM B/G, NICAM D, A2 (German)		
Tuning System	Frequency synthesizer		
	Auto Search Tuning	POSITION	: 100 Position
		DIRECT	: 125 Position
High Voltage	31.0 ± 1.0 kV at zero beam current		
Picture Tube	Overall Picture tube measured diagonally		86 cm
	Viewable Picture tube measured diagonally		80 cm
	CRT Deflection		104°
Audio Output	36 W [2-way, 4-speakers ; 12 W + 12 W, AFB woofer ; 12 W] (10% THD)		
Headphones	3.5 mm Plug		
Aerial Impedance	75Ω Unbalanced coaxial		
Video/Audio/Component Terminals	AV 1, 2, 3, 4	S-Video In	Y:1 Vp-p, 75Ω
			C:0.3 Vp-p, 75Ω
		DVD ($Y/P_B/P_R$)	
		Video In	1 Vp-p, 75Ω
		Audio In	Approx. 0.4 V 47KΩ
	Monitor Out	Video Out	1 Vp-p, 75Ω
		Audio Out	Approx. 0.4 V 1KΩ
	AV1 IN(Rear) : S-Video, Video, Audio L/R terminals		
	AV2 IN(Rear) : Video or $Y/P_B/P_R$, Audio L/R terminals		
	AV3 IN(Front) : S-Video, Video, Audio L/R RGB terminals		
	AV4 IN(Rear) : Video or $Y/P_B/P_R$, Audio L/R terminals		
RGB input	High-DENSITY D-sub 15 pin		
	31.5 kHz / 60 Hz (640 × 480 dot) and 31.5 kHz / 70 Hz (640 × 400 dot)		
Remote control Transmitter	R6 (AA) Battery × 2		
	75Ω coaxial aerial plug		
Dimensions (W × D × H)	762 mm × 558 mm × 706 mm		
Weight (Mass)	74 kg (Net)		

Note:

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

⚠ WARNING

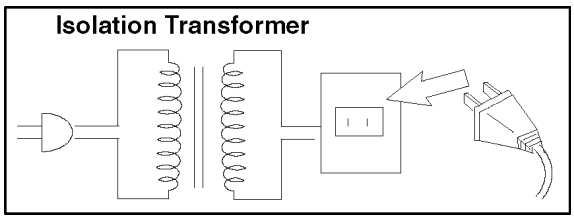
This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should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

CONTENTS

1 Safety Precautions

1.1. General Guide

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

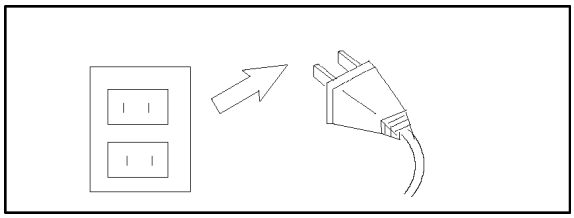


2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.

   If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.

4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.

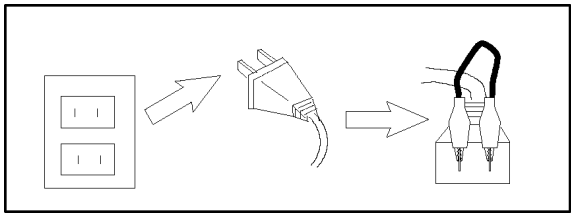


5. Potential, as high as **32.0 kV**, is present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube.

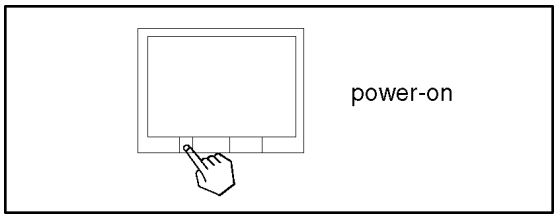
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

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



2. Turn on the receiver's power switch.



3. Measure the resistance value, with an ohmmeter, between the 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.

1.3. Leakage Current Hot Check

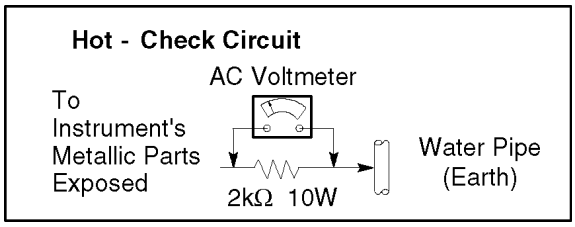
1. Plug the AC cord directly into the AC outlet.

   Do not use an isolation transformer for this check.

2. Connect a 2 kΩ, 10W resistor, in series with an exposed metallic part on the receiver and an earth such as a water pipe.

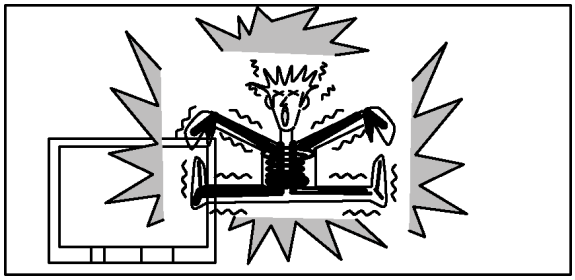
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.

4. Check each exposed metallic part, and measure the voltage at each point.



5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.

6. The potential at any point should not exceed **1.0 V rms.** In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.



1.4. X-Radiation

Warning :

1. The potential sources of X-Radiation in TV sets are the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling **32.0kV** without causing X-Radiation.

Note :

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

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

2 SERVICE HINTS

2.1. HOW TO REMOVE THE REAR COVER

1. Remove the 9 screwsas shown in Fig. 1.

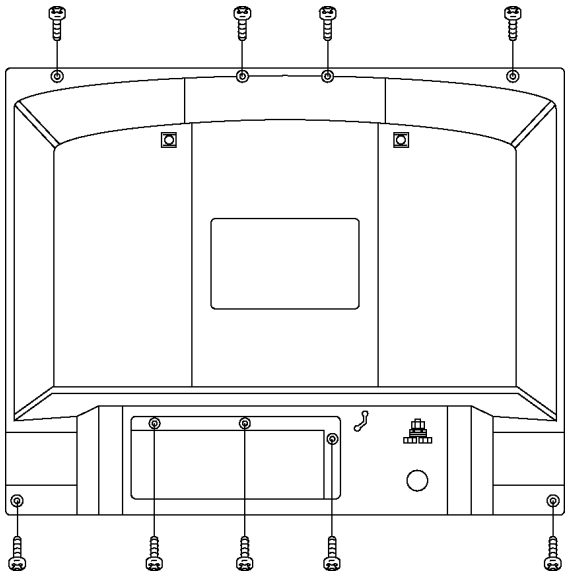


Fig. 1.

2.2. LOCATION OF CONTROLS

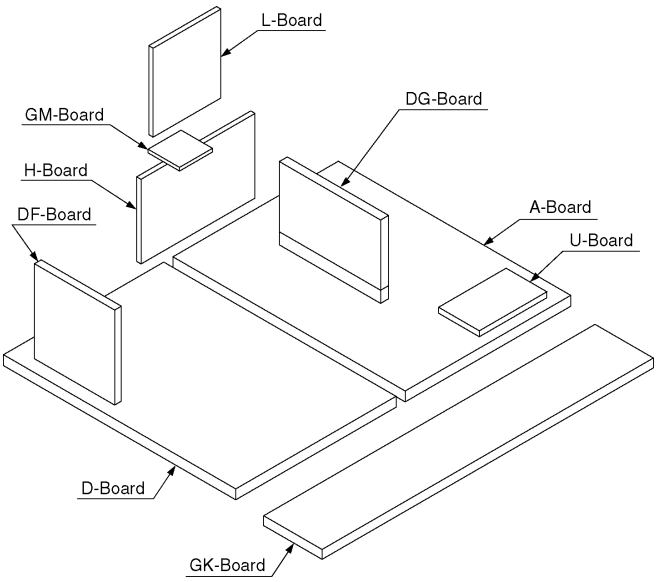


Fig. 2.

2.3. HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

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

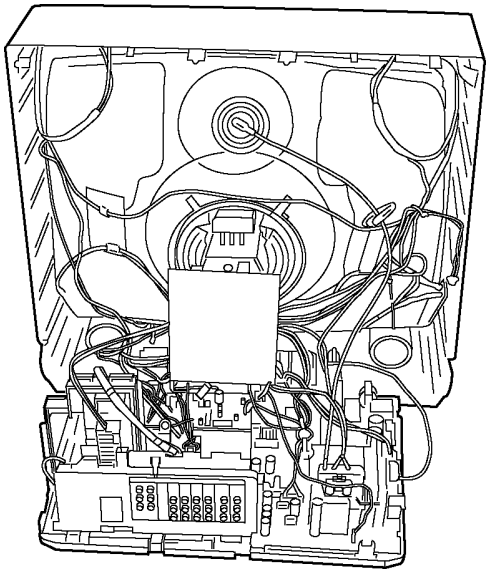


Fig. 3.

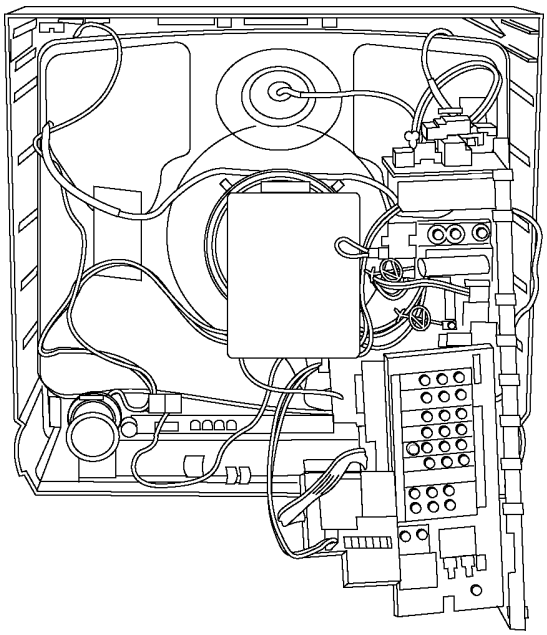


Fig. 4.

2.4. Hotel Mode

Purpose

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

   Note:

   This Mode is useful for hotel, you should not get into “Hotel Mode” with Normal use.

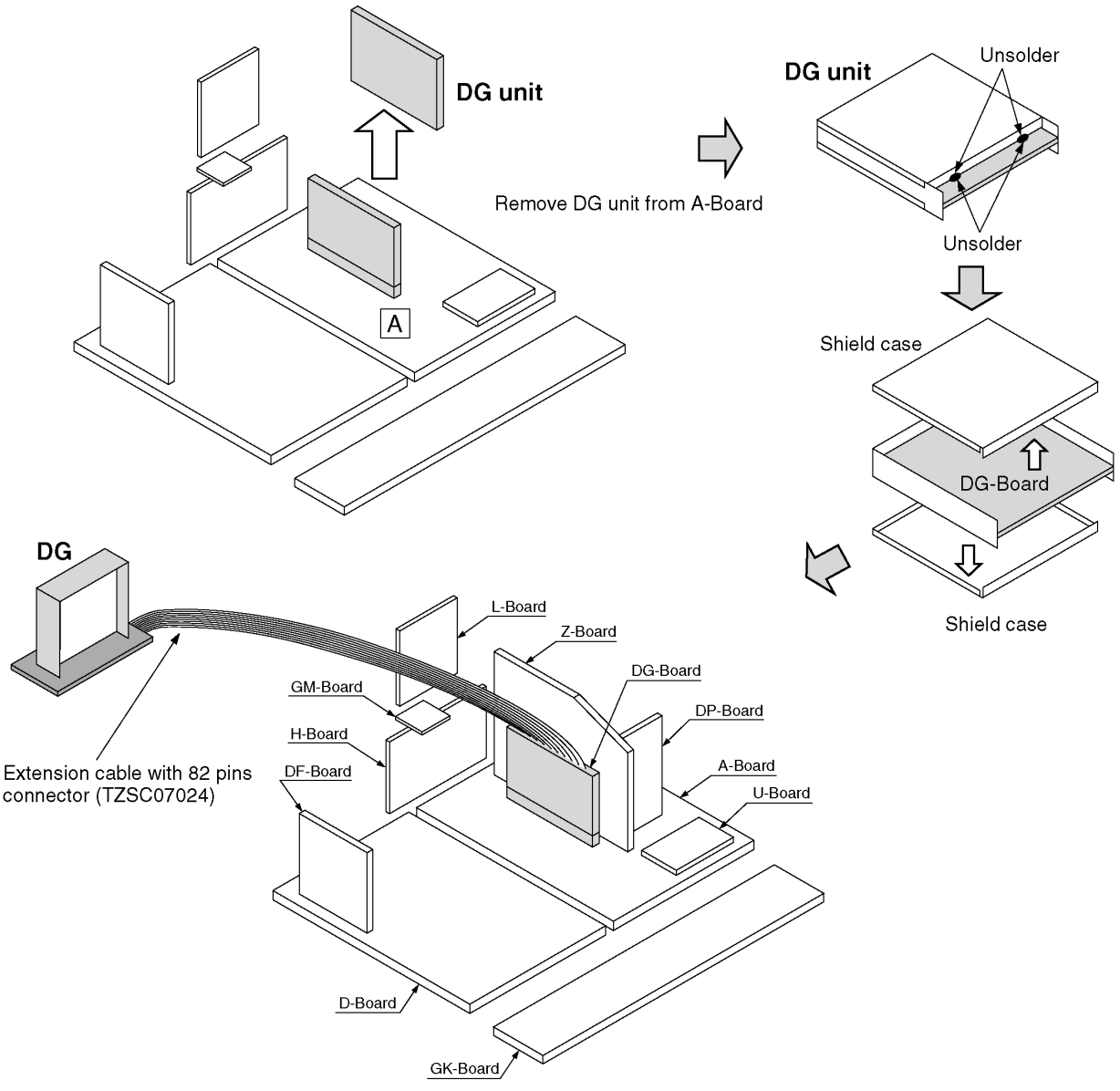
Operation

1. To get into “ Hotel Mode”, press the remote control “Recall” button and Channel up “[+/∧]” key on the TV set simultaneously, after setting the “Off-Timer” mode.
2. In this mode, The Channel up and down Function will be able as normal Mode, and The maximum volume level for this mode is set at the current volume level, that means setting at the level before entering the mode. However, other function will be disable.
3. **To exit This mode,** exit “off-timer” mode and the “Volume Down [−/∨]” key simultaneously.
   * This Information is informed by Service Manual only.

2.5. Service position For DG-Board.

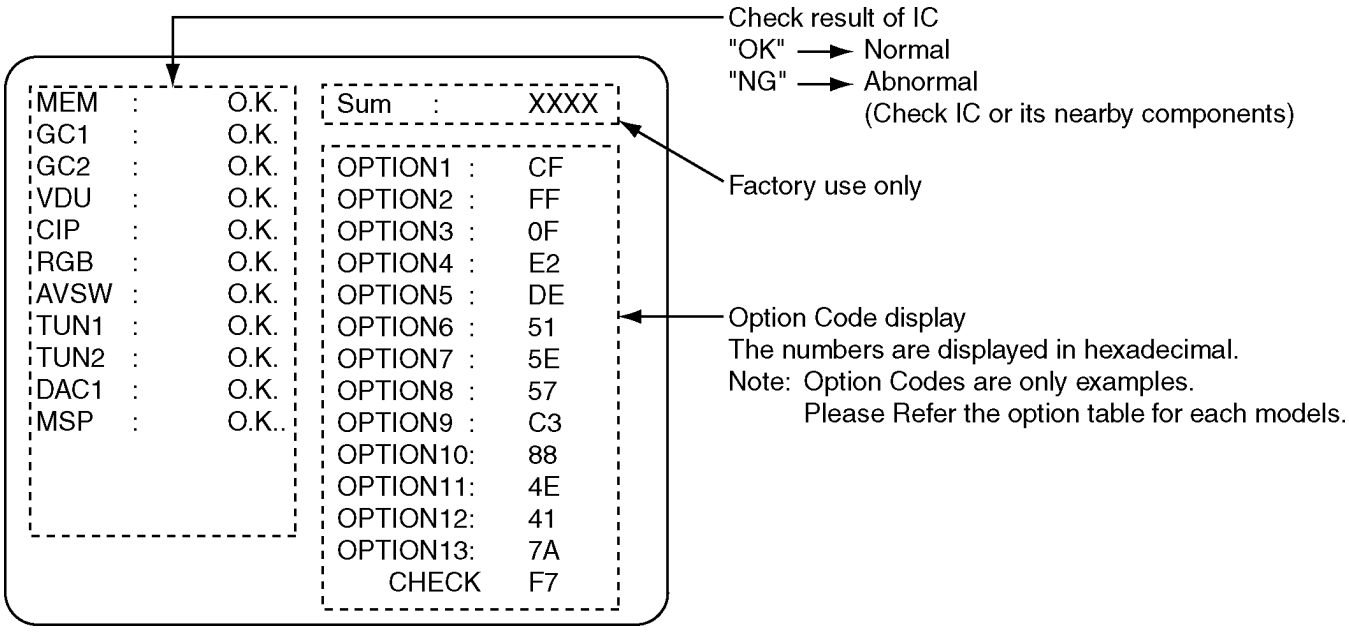
Note:

Extension cable kit for DG Board is supplied as service fixtures and tools. (Part No. TZSC07024)



3 Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self -Check mode press the down (—/V) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and the screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEM	IC1104	Memory	A-Board
GC1	IC1301	Global core IC Main	DG-Board
GC2	IC1304	Global core IC Sub	DG-Board
VDU	IC1305	Video Processor	DG-Board
CIP	IC1303	CIP	DG-Board
RGB	IC1315	RGB Processor	A-Board
AVSW	IC3001	AV SW	A-Board
TUN1	TNR001	Tuner Main	A-Board
TUN2	TNR002	Tuner Sub	A-Board
DAC1	IC1253	DAC control	A-Board
MSP	IC2001	Stereo Decoder	A-Board

4 Service Mode Function

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

4.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.

4.2. How to enter SERVICE 2

1. Set the channel to CH99.
2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1

Function	Average Data
H-Pos	107
V-Pos	57
H-Amp	64
V-Amp	174
Parabola	41
Trapezoid	125
H-Parallel	8
V-Linear	34
Top-Corner	21
Bottom-Corner	21
V-S-Correct	11
C-Correct	8
DAF-Phase	189
R High(Drive)	158
G High(Drive)	160
B High(Drive)	178
R Low(Cut off)	199
G Low(Cut off)	384
B Low(Cut off)	284
Sub-Bright	104
Sub-Geomagnetic	128
RF AGC 1	16
Sub-Contrast	112
Sub-Colour	43
Sub-NTSC Tint	-1
SECAM B-Y	194
SECAM R-Y	78
RF AGC 2	19
Sub-NTSC Tint2	-2
Sub SECAM B-Y	193
Sub SECAM R-Y	70
Video Gain 2	143
SPL, Gain	0

- Press the RED/GREEN button to step up/down thrpugh the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been mode to store the required values.

①Set the Aspect mode 16:9.
  a. Receive PAL signal and adjust each item.
  b. Next. reveice NTSC signal and adjust each time.

②Set the Aspect mode 4:3.
  a. Receive PAL signal and confirm the picture.
  Adjust each item if necessary.
  b.Next, receive NTSC signal and confirm the picture.
  Adjust each item if necessary.

CH99 + HOLD button

CH99 + INDEX button

SERVICE 2

Function	TX-80P250Z	TX-34P250T	Function	TX-80P250Z	TX-34P250T
Y/C Delay	11		OPTION 8	D3	53
OPTION 1	CF		OPTION 9	C3	C2
OPTION 2	FF		OPTION 10	88	84
OPTION 3	0F		OPTION 11	4E	
OPTION 4	E2		OPTION 12	41	
OPTION 5	DE		OPTION 13	7A	
OPTION 6	51		Hours		
OPTION 7	5E				

4.3. Option Descrition

Options Model		Description		
option1		CF		
0E0	b0	1	Colour system	Auto(1)
	b1	1		SECAM(1)
	b2	1		NTSC(1)
	b3	1		M.NTSC(1)
	b4	0	TV NTSC 50	Reserved
	b5	0	TV SECAM 60	Reserved
	b6	1	AV NTSC 50	Reserved
	b7	1	AV SECAM 60	Reserved
option2		FF		
0E1	b0	1	CH Plan	ASIA / M.E. / HK / UK / CHINA(1)
	b1	1		NZ/INDNES(1)
	b2	1		AUSTRALIA(1)
	b3	1		E.EUROPE(1)
	b4	1		SPECIAL(1)
	b5	1		AMERICA(1)
	b6	1		CATV(1)
	b7	1		JAPAN(1)
option3		0F		
0E2	b0	1	sub picture	without sub-picture(0), with sub-picture(1)
	b1	1	2tuner	2tuner(1), 1tuner(0)
	b2	1	VGA	enable(1)
	b3	1	YUV	enable(1)
	b4	0	CRT	16:9(1), 4:3(0) (change multi window / aspect operation)
	b5	0	HYPER	not use
	b6	0	SIF	4.5 / 5.5 / 6.0 / 6.5(0), 5.5 / 6.0 / 6.5(1)
	b7	0		5.5 / 6.5(2), 6.0 / 6.5(3)
option4		E2		
0E3	b0	0	A2 enable	4.5(1)
	b1	1		5.5(1)
	b2	0		6.0(1)
	b3	0		6.5(1)
	b4	0	NICAM enable	4.5(1)
	b5	1		5.5(1)
	b6	1		6.0(1)
	b7	1		6.5(1)
option5		DE		
0E4	b0	0	A2 select 6.5MHz	5.742MHz(0) 6.742MHz(1)
	b1	1	NICAM priority	ASIA / M.E.(1)
	b2	1		HK / UK(1)
	b3	1		CHINA(1)
	b4	1		NZ / INDN(1)
	b5	0		AUSTRA(1)
	b6	1		E.EURO(1)
	b7	1		SPECIAL(1)

Options Model		TX-80P 250Z	TX-34P 250T	Description	
option6		51	51		
0E5	b0	1	1	VCR/GAME in search	On(0) Off(1)
	b1	0	0	SASO enable	SASO enable(1)
	b2	0	0	Noise mute	Noise mute enable(0)
	b3	0	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	1	1	AV SW 3/2 AV out	CXA2069Q(1) CXA2079Q(0)
	b5	0	0	Tuner	MACO tuner(0), ALPS tuner(1)
	b6	1	1	Child lock	Child lock enable(1)
	b7	0	0	free	
option7		5E	5E		
0E6	b0	0	0	Power up EC-Mode	not use
	b1	1	1	CH Blanking	Blanking enable(1)
	b2	1	1	AV Blanking	Blanking enable(1)
	b3	1	1	Auto WIDE	not use
	b4	1	1	Volume correction	TV Volume correction enable(1)
	b5	0	0	AVLink	Q-Link on/off selectable in menu(1)
	b6	1	1	MPX/NICAM display	Display NICAM(0), Display MPX(1)
	b7	0	0	free	
option8		D3	53		
0E7	b0	1	1	Geomagnetic correction	Geomagnetic correction enable(1)
	b1	1	1	Geomagnatic Sensor	Geomagnetic sensor enable(1)
	b2	0	0	Geomagnatic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	free	
	b4	1	1	Fine tuning	Enable(1)
	b5	0	0	Search speed	Slow(1) Fast(0)
	b6	1	1	TEXT FLOF	Reserved
	b7	1	0	TEXT TOP	TOP enable(1)
option9		C3	C2		
0E8	b0	1	0	Digital Audio	Digital Audio enable(1)
	b1	1	1	3D Subwoofer	Subwoofer enable(1)
	b2	0	0	free	
	b3	0	0	free	
	b4	0	0	free	
	b5	0	0	free	
	b6	1	1	Volume curve	Volume curve1(0), curve2(1)
	b7	1	1	Volume EXDAC	Add Volume control by EXDAC(1)
option10		88	84		
0E9	b0	0	0	free	
	b1	0	0	OSD language	Arabic enable(1)
	b2	0	1		Russian enable(1)
	b3	1	0		Chinese enable(1)
	b4	0	0	free	
	b5	0	0	free	
	b6	0	0	free	
	b7	1	1	Protect 5V detect	Protection input enable(1)

Options Model		TX-80P 250Z	TX-34P 250T	Description	
option11		4E	4E		
0EA	b0	0	0	Shop mode	enable(1)
	b1	1	1	Full/16:9 display	Reserved
	b2	1	1	Sub Headphone	enable(1)
	b3	1	1	Scan mode Blanking	Blanking enable(1)
	b4	0	0	User aspect 14:9	enable(1)
	b5	0	0	NICAM C4 bit	enable(1)
	b6	1	1	ID-1	enable(1)
	b7	0	0	1080i	enable(1)
option12		41	41		
0EB	b0	1	1	Asia	Asia(1), europe(0)
	b1	0	0	-	
	b2	0	0	Ireland	not use
	b3	0	0	UK	not use
	b4	0	0	-	
	b5	0	0	-	(Reserved for 28 inch etc.)
	b6	1	1	Large size	52(1) / 42(0) for PTV, 36(1) / 32(0) for wide, 34(1) / 29(0) for 4:3
	b7	0	0	PTV	PTV(1)
option13		72	7A	Temporary	
0EC	b0	0	0	VDU Version	A21(0), A12(1)
	b1	1	1	GC Version	ES5(0), ES6(1)
	b2	0	0	UV Swap	Swap(1)
	b3	0	1	TEXT	Enable(1)
	b4	1	1	Main GC ES7	ES7(1), ES5/6(0)
	b5	1	1	Sub GC ES7	ES7(1), ES5/6(0)
	b6	1	1	-	
	b7	0	0	CIP2	without CIP1(0), with CIP1(1)

SUM	73	EE

5 Adjustment Procedure

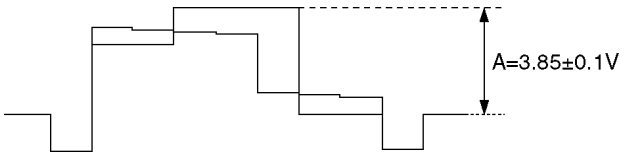
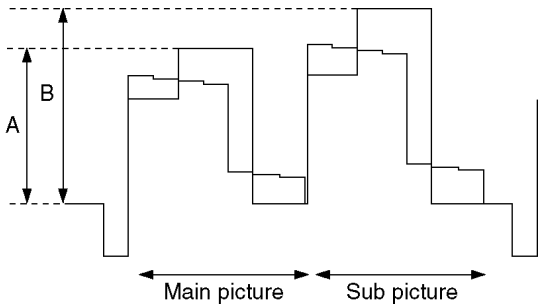
5.1. Voltage Confirmation

Item/Preparation	Adjustment Procedure
1. Operate the TV set. 2. Set controls : Bright Minimum Contrast Minimum Volume Minimum	1. TPD15 : 144.8±1V (D-Board) 2. TPD 13 : 14.6±1V (D-Board) 3. TPD8 : 7.4±0.5V (D-Board) 4. TPD9 - TPD11: 34.0±1.5V (D-Board) 5. TPD10 : 15.5±1V (D-Board) 6. C864 (-) : -15.7±1V (D-Board) 7. Pin 15 of connector D2 : 31±2V (D-Board) 8. TPD32 : 224±10V (D-Board) 9. Pin 2 of IC1252 : 2.5±0.25V (A-Board) 10. Pin 3 of IC1251 : 3.3±0.3V (A-Board) 11. Pin 3 of IC3302 : 12±0.6V (A-Board) 12. Pin 2 of IC2708 : 9.0±0.4V (A-Board) 13. Pin 3 of IC2707 : 8.0±0.4V (A-Board) 14. Pin 2 of IC2706 : 5.0±0.4V (A-Board) 15. Pin 2 of IC2705 : 3.5±0.2V (A-Board) 16. Pin 2 of IC2709 : 3.5±0.2V (A-Board)

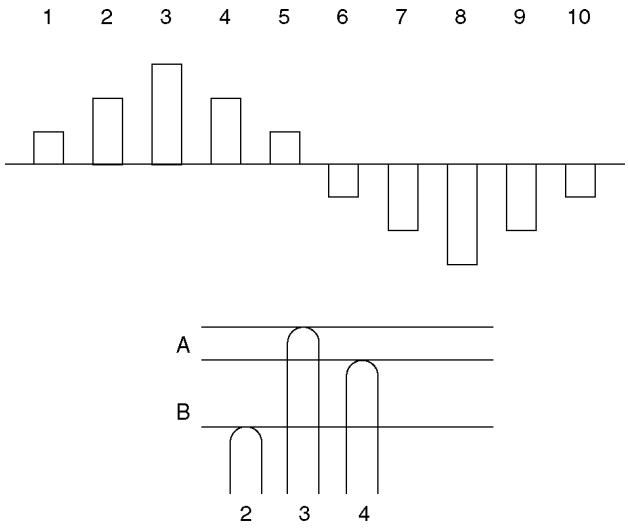
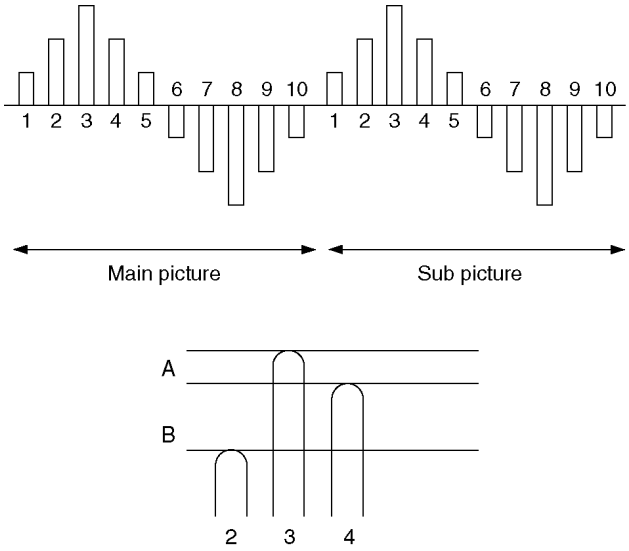
5.2. E.H.T Check

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

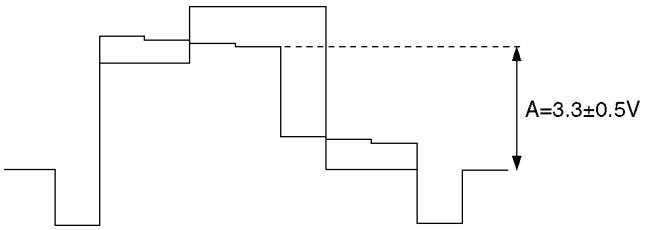
5.3. Sub Contrast

Item/Preparation	Adjustment Procedure
1. Receive PAL colour bar pattern. 2. Connect osilloscope to A21 pin 3. 3. Set controls : BRT.....CENTER COLOUR.....CENTER CONTRAST.....MAX AI.....OFF	1. Adjust Sub Contrast (Service 1) : A=3.85±0.1V  Fig. 1. 2. Adjust Video gain 2 (Service 1) so that Sub picture level B becomes as same as Main picture level A.  Fig. 2.

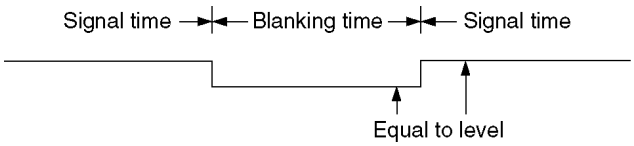
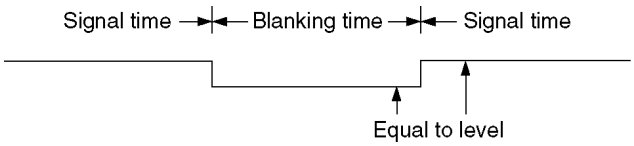
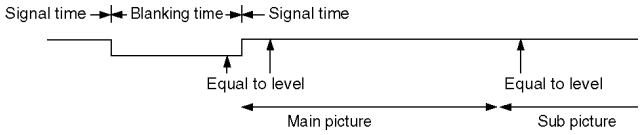
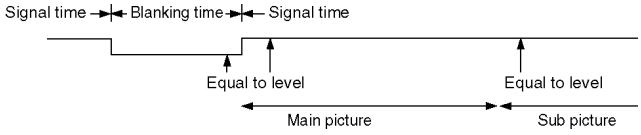
5.4. Sub Tint

Item/Preparation	Adjustment Procedure
1. Receive 3.58MHz NTSC rainbow parttern. 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 similiar to Fig. 3.  A:B=2:3 Fig. 3. 2. Receive the Rainbow patter (3.58MHz NTSC) on both of Main and Sub pictures. 3. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similiar to Fig. 4.  A:B=2:3 Fig. 4.

5.5. Sub Colour

Item/Preparation	Adjustment Procedure
1. Receive PAL colour bar pattern. 2. Connect osilloscope to A21 pin 3. 3. Set controls : BRT.....CENTER COLOUR.....CENTER CONTRAST.....MAX AI.....OFF	1. Adjust Sub Colour : A=3.3±0.5V  Fig. 5.

5.6. SECAM BLACK LEVEL

Item/Preparation	Adjustment Procedure
1. Receive SECAM white pattern. 2. Connect osilloscope to A44 pin 39. 3. Set controls : BRT.....CENTER COLOUR.....CENTER CONTRAST.....MAX AI.....OFF	1. Adjust SECAM B-Y so that H-blanking time and colour center are equal level.  Fig. 6. 2. Connect oscilloscope to A44 pin 41. 3. Adjust SECAM R-Y OUT so that H-blanking time and colour center are equal level.  Fig. 7. 4. Connect oscilloscope to A44 pin 39. 5. Receive SECAM white parttern on both of Main and Sub picture. 6. Adjust Sub SECAM B-Y so that H-blanking time and colort center are equal level.  Fig. 8. 7. Connect osilloscope to A44 pin 41. 8. Adjust Sub SECAM R-Y so that H-blanking time and colour center are equal level.  Fig. 9.

5.7. VRS Adjustment

1. PREPARATION
   a. Set DY to CRT not to tilt up and down and left and right deflection. (Fig. 1)
   b. Set CY to CRT and set CY magnet primarily.
      Pur Mg : Set Pur Mg that 2magnets are vertical position.
      VRS Mag : Set VRS Mg that 2magnets are side position.
   c. Set geomagnetic correction DAC [0]
2. ADJUSTMENT
   a. Receive the white balance pattern.
   b. Adjust V-CENTER
   c. Set R,B CUT OFF to minimum(0), and set G CUT OFF to center(511).
   d. Receive the aging pattern.
   e. Set 2 magnet of vertical position to up and down equally so that center part of CRT. (Fig. 3)

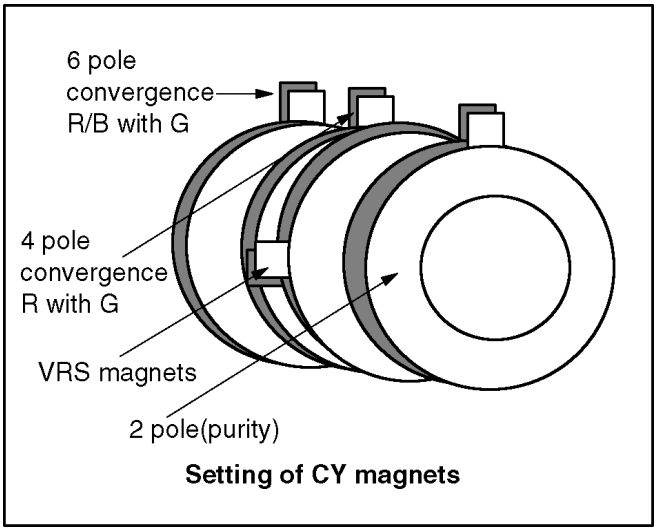


Fig. 1

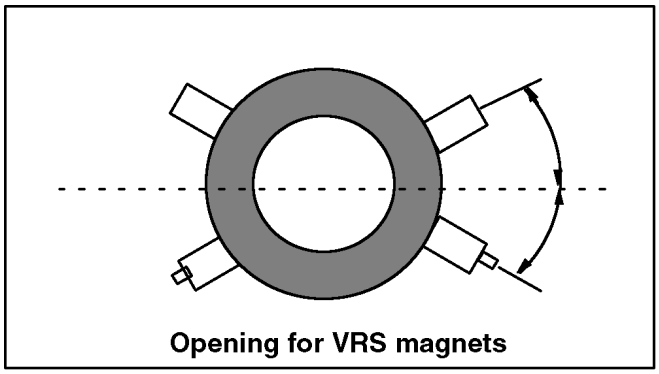


Fig. 2

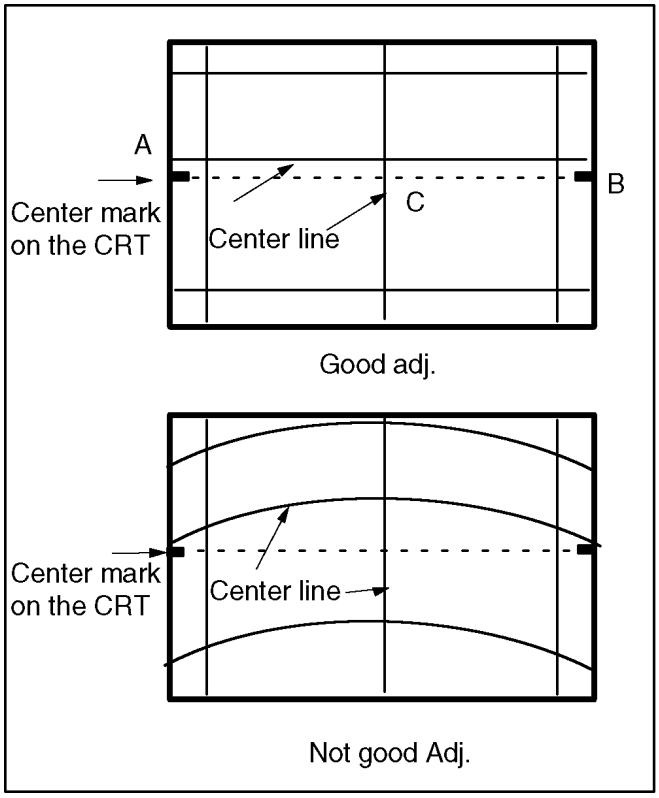
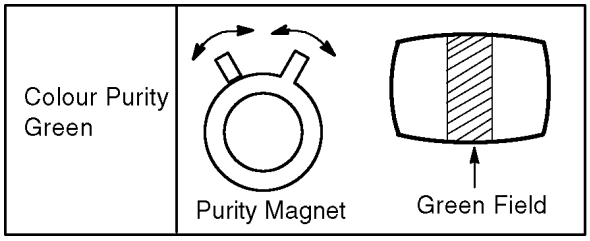


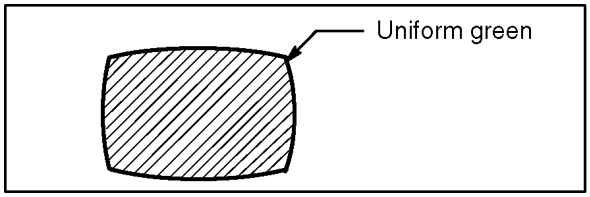
Fig. 3

5.8. Colour Purity

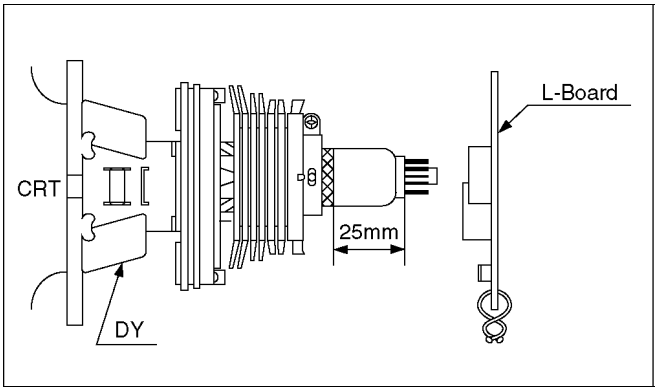
1. Operate the TV set over 60 minutes.
2. Receive a purity pattern signal. (white pattern)
3. Set Bright and Contrast controls to their maximum positions.
4. Set V-POS to 128.
5. Adjust roughly the static convergence magnets.
6. Fully degauss the picture tube by using an external degaussing coil.
7. Loosen a clamp screw for the deflection yoke and move the deflection yoke as close to the purity magnet as possible.
8. Adjust the purity magnet so that a vertical green field is obtained at center of the screen.



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



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



5.9. Convergence

1. INSTRUMENT
   a. Helmhortz device
2. PREPARATION
   a. Set the Helmhortz device to local magnetic field.
      Hrizontal : 0 ± 0.03 × 10-4 T
   b. Received the cross hatch pattern.
   c. Picture menu : DYNAMIC Normal and adjust BRIGHT DAC until gray portion of cross hatch.
   d. Set DY to CRT not to tilt (up and down and left and right).
3. ADJUSTMENT
   a. Static convergence Adjustment
      a. Make sure that magnets are positioned shown in Fig. 1.
      b. Adjust 4-pole magnets (Fig. 1.) to align center dots of R and B and adjust 6-pole magnets to align center dots to G.
      c. After adjustment, secure magnets with magnet lock of white lacquer.

         *Beams move with rotating when static magnets are turned.

         Rotational reduce of beams differs by angle of two magnets.

         Therefore, repeat magnet adjustments several time so that all aligned completely.

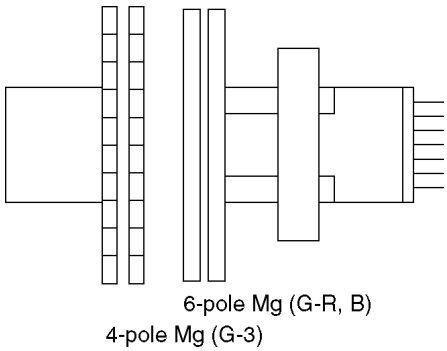


Fig. 1.

   b. YHC, YV, XV, Adjustment (Fig. 2.)
      a. Adjust that Static and Dynamic convergence is best with YHC VR, YV VR and XV coil.

         In case of static convergence is tilted, repeat (1) Static converegnce Adjustment.

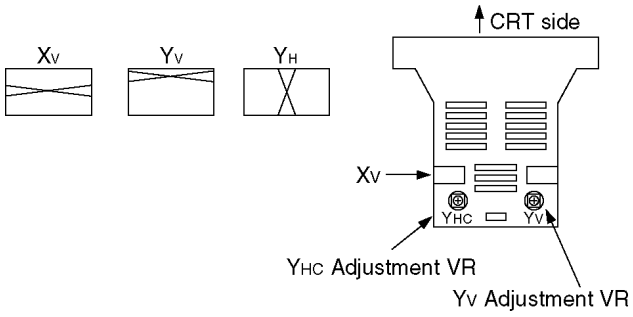


Fig. 2.

   c. Dynamic convergence Adjustment
      a. When dynamic convergence is bad, fixing permalloy between neck and DY so that dynamic convergence is best.
4. Confirm that left upper side line is straight.

   When left upper side line isn't straight, put magnet on DY and adjust the left upper scide line to straight.

5.10. CUT OFF

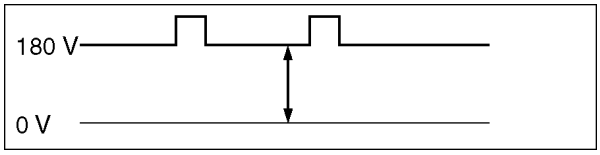
Preparation

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

Display	Date Level
R High (R-CUT OFF)	128
G High (G-CUT OFF)	128
B High (B-CUT OFF)	128
R Low (R-DRIVE)	175
G Low (B-DRIVE)	175
B Low (G-DRIVE)	175
SUB BRIGHT	128

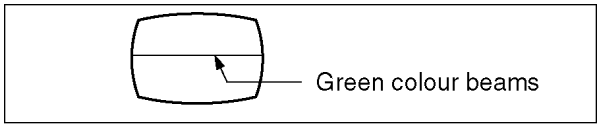
Adjustment

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

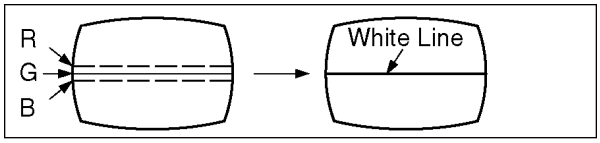


3. Slowly turn the screen control clockwise until a green colour horizontal line appears on the picture tube. This is the setting point for the screen control.

   Note that do not adjust the G-CUTOFF setting in the following procedure.



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



5. Return to full field SCAN by pushing the position 5 key on the remote control.
6. Adjust the R-Drive and B-Drive controls as to obatain 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 set up.

   Note:

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

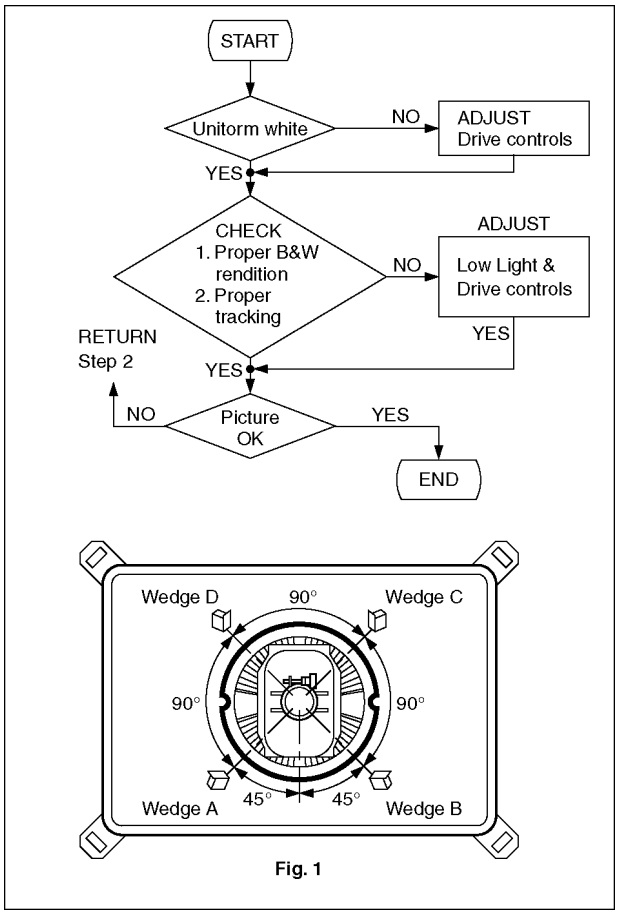


Fig. 1

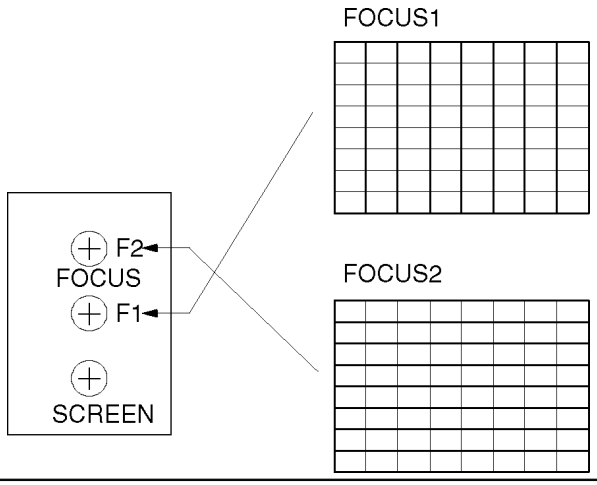
8. Wedge A shown in Fig. 1 should be fixed within a range of 45° to the left of the vertical line as shown.
9. After inserting wedge A, insert wedges B, C and D.

   The wedges should be set 90° apart from each other.
10. Be certain that the four wedges are firmly fixed and the Deflection Yoke is tightly clamped in place. Otherwise the Deflection Yoke may shift its position and cause a loss of convergence and purity.

5.11. White Balance

Item/Preparation	Adjustment Procedure
1. Select Service Mode 1. 2. Aging should have been performed over 30 minutes. 3. Receive the white balance pattern. 4. Picture menu : DYNAMIC NORMAL. AI : OFF 5. Degauss the CRT face. 6. Connect the photo sensors of the Colour Analyser to the CRT. **Note:** CRT cut off adjustment is completed.	1. Adjustment of Low Light. a. Adjustment SUB BRIGHT, so that “Y“ axis indicates 6.5. b. Adjustment R-CUT OFF, so that y axis indicates 0.293. c. Adjustment B-CUT OFF, so that x axis indicates 0.273. 2. Adjustment of High Light. a. Adjust SUB BRIGHT, so that “Y“ axis indicates 150. b. Adjust R-DRIVE, so that y axis indicates 0.277. c. Adjust B-DRIVE, so that x axis indicates 0.271.

5.12. Foucus

Item/Preparation	Adjustment Procedure
1. Receive a cross-hatch pattern signal.	1. Adjust the Focus to thin all the Lines by Focus 1 Control. (Prefer to thin the Vertical Lines than Horizontal Line.) 2. Adjust the Focus to thin the Horizontal Lines by Focus2 Control. 

5.13. Geomagnetic

Item/Preparation	Adjustment Procedure
1. Demagnetize the GM-Board around its perimeter with the Demagnetizer. 2. Set to control; Geomagnetic.....Auto	1. Connect a DC voltage meter to TPGM1-2pin (GM-Board) 2. Adjust the R4863 (GM-Board) so that the Vx Out at TPGM1-2pin becomes **4.9 ± 0.05 V**. 3. Connect a DC voltage meter to TPGM1-1pin (GM Board). 4. Adjust the R4861 (GM-Board) so that the Vy Out at TPGM1-1pin becomes **4.9 ± 0.05 V**.

5.14. Sub Bright

Item/Preparation	Adjustment Procedure
1. Receive the sub bright pattern. 2. Picture Menu : BRT.....CENTER COLOUR.....CENTER CONT.....MAX 3. Connect the photo sensor of the Colour Analyzer to the center of CRT.	1. Adjust Sub Bright so that brightness level became 1 ± 0.2 cd/m^2

6 Deflection Adjustment

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

6.1.1. V-HOLD CONFIRMATION

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Set aspect to 4:3.
4. Confirm that V-hold is normal.
5. Set the fix data in the table 1.

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

6.1.2.1. 100i V-POS ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust V-POS (100i / 4:3) so that the scale of the top and bottom side is equal.

6.1.2.2. 120i V-POS ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust V-POS (120i / 4:3) so that the scale of the top and bottom side is equal.

6.1.2.3. 50p V-POS ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust V-POS (50p / 4:3) so that the scale of the top and bottom side is equal.

6.1.2.4. 60p V-POS ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust V-POS (60p / 4:3) so that the scale of the top and bottom side is equal.

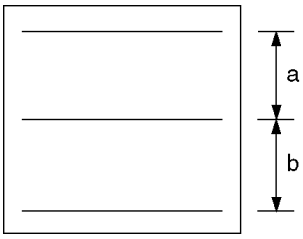


Fig. 1

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

6.1.3.1. 100i V-AMP ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust V-AMP (100i / 4:3) so that
   B, D (Fig. 2) is 2.1 ± 0.1

6.1.3.2. 120i V-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust V-AMP (120i / 4:3) so that
   B, D (Fig. 2) is 2.1 ± 0.1

6.1.3.3. 50p V-AMP ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust V-AMP (50p / 4:3) so that
   B, D (Fig. 2) is 2.1 ± 0.1

6.1.3.4. 60p V-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust V-AMP (60p / 4:3) so that
   B, D (Fig. 2) is 2.1 ± 0.1

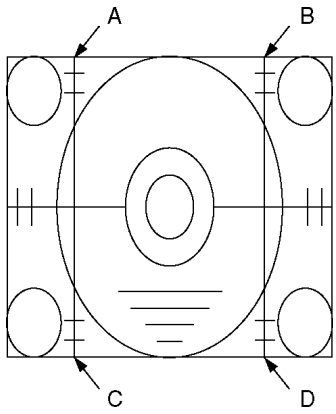


Fig. 2

6.2. H-DEFLECTION CONFIRMATION/ADJUSTMENT (4:3 MODE)

6.2.1. H-HOLD CONFIRMATION

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Set aspect to 4:3.
4. Confirm that H-hold is normal.

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

6.2.2.1. 100i H-POS ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust H-POS (100i / 4:3) so that the horizontal position is center of CRT.

6.2.2.2. 120i H-POS ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust H-POS (120i / 4:3) so that the horizontal position is center of CRT.

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

6.2.3.1. 100i H-AMP ADJUSTMENT

1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust H-AMP (100i / 4:3) so that the both of edges are within A, B = 2.5 ± 0.2.

6.2.3.2. 120i H-AMP ADJUSTMENT

1. Receive NTSC monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust H-AMP (120i / 4:3) so that the both of edges are within A, B = 2.5 ± 0.2.

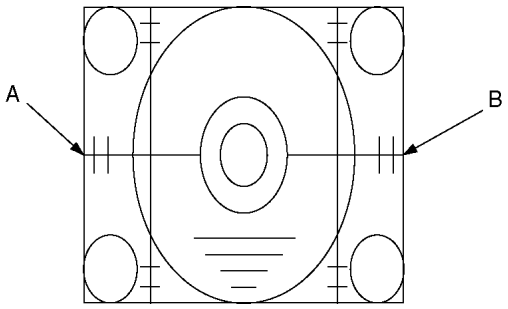


Fig. 3

6.3. PINCUSSION ADJUSTMENT/CONFRMATION (4:3 MODE)

6.3.1. 100i SIDE PINCUSSION ADJUSTMENT (4:3 MODE)

1. Receive PAL crosshatch pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust the vertical line to straight line by Parabola (100i / 4:3).
4. Adjust the vertical line to straight line of bothside vertical line in Fig. 4 by Trapezoid (100i / 4:3).
5. Confirm there is no H-parallel distortion.
   If there is distortion, adjust by H-Pallalel (100i / 4:3).
   In that case, repeat 4. and 5. so that there is no trapezoid / pararell distortion.
6. Confirmation vertical pincussion of the corner side.
   If need, adjust Top-Corner (100i / 4:3) and Bottom-Corner (100i / 4:3).
7. Confirm bow level of the both side.
   If it is not symmetrical, adjust C-Correct (100i / 4:3).

6.3.2. 120i SIDE PINCUSSION ADJUSTMENT (4:3 MODE)

1. Receive NTSC crosshatch pattern.
2. Set scan mode to 100Hz by remote control key.
3. Adjust the vertical line to straight line by Parabola (120i / 4:3).
4. Adjust the vertical line to straight line of bothside vertical line in Fig. 4 by Trapezoid (120i / 4:3).
5. Confirm there is no H-parallel distortion.
   If there is distortion, adjust by H-Pallalel (120i / 4:3).
   In that case, repeat 4. and 5. so that there is no trapezoid / pararell distortion.
6. Confirmation vertical pincussion of the corner side.
   If need, adjust Top-Corner (120i / 4:3) and Bottom-Corner (120i / 4:3).

7. Confirm bow level of the both side.
   If it is not symmetrical, adjust C-Correct (120i / 4:3).

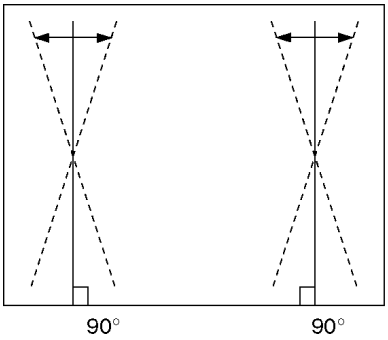


Fig. 4

6.3.3. 50p SIDE PINCUSSION ADJUSTMENT (4:3 MODE)

1. Receive PAL crosshatch pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust the vertical line to straight line by Parabola (50p / 4:3).
4. Adjust the vertical line to straight line of bothside vertical line in Fig. 5 by Trapezoid (50p / 4:3).
5. Confirm there is no H-parallel distortion.
   If there is distortion, adjust by H-Pallalel (50p / 4:3).
   In that case, repeat 4. and 5. so that there is no trapezoid / pararell distortion.
6. Confirmation vertical pincussion of the corner side.
   If need, adjust Top-Corner (50p / 4:3) and Bottom-Corner (50p / 4:3).
7. Confirm bow level of the both side.
   If it is not symmetrical, adjust C-Correct (50p / 4:3).

6.3.4. 60p SIDE PINCUSSION ADJUSTMENT (4:3 MODE)

1. Receive NTSC crosshatch pattern.
2. Set scan mode to progressive by remote control key.
3. Adjust the vertical line to straight line by Parabola (60p / 4:3).
4. Adjust the vertical line to straight line of bothside vertical line in Fig. 5 by Trapezoid (60p / 4:3).
5. Confirm there is no H-parallel distortion.
   If there is distortion, adjust by H-Pallalel (60p / 4:3).
   In that case, repeat 4. and 5. so that there is no trapezoid / pararell distortion.
6. Confirmation vertical pincussion of the corner side.
   If need, adjust Top-Corner (60p / 4:3) and Bottom-Corner (60p / 4:3).
7. Confirm bow level of the both side.
   If it is not symmetrical, adjust C-Correct (60p / 4:3).

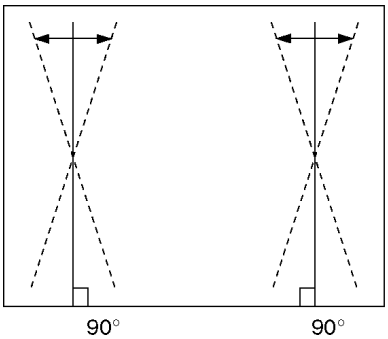


Fig. 5

6.4. V LINIALITY ADJUSTMENT / CONFIRMATION (4:3 MODE)

6.4.1. 100i V-linear ADJUSTMENT

1. Recive PAL monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Confirm V-linear (100i / 4:3) as to the balance of circle.
   If need, adjust V-linear (100i / 4:3).

6.4.2. 120i V-linear ADJUSTMENT

1. Recive NTSC monoscope pattern.
2. Set scan mode to 100Hz by remote control key.
3. Confirm V-linear (120i / 4:3) as to the balance of circle.
   If need, adjust V-linear (120i / 4:3).

6.4.3. 50p V-linear ADJUSTMENT

1. Recive PAL monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Confirm V-linear (50p / 4:3) as to the balance of circle.
   If need, adjust V-linear (50p / 4:3).

6.4.4. 60p V-linear ADJUSTMENT

1. Recive NTSC monoscope pattern.
2. Set scan mode to progressive by remote control key.
3. Confirm V-linear (60p / 4:3) as to the balance of circle.
   If need, adjust V-linear (60p / 4:3).

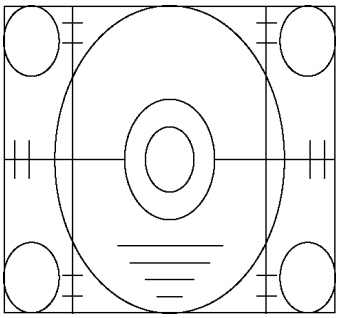


Fig. 6

6.5. DEFLECTION (16:9 MODE) ADJUSTMENT / CONFIRMATION

6.5.1. DATA SETTING (16:9)

1. Copy the adjusted data of 100i / 4:3 mode to 100i / 16:9 in the table. 1 (Except H-POS, V-S-Correct).
2. Copy the adjusted data of 120i / 4:3 mode to 120i / 16:9 in the table. 1 (Except H-POS, V-S-Correct).
3. Copy the adjusted data of 50p / 4:3 mode to 50p / 16:9 in the table. 1 (Except H-POS, H-AMP, V-S-Correct, C-Correct) and copy the data of 100i / 4:3 to 50p / 16:9 about H-AMP and C-Correct.
4. Copy the adjusted data of 60p / 4:3 mode to 60p / 16:9 in the table. 1 (Except H-POS, H-AMP, V-S-Correct, C-Correct) and copy the data of 120i / 4:3 to 60p / 16:9 about H-AMP and C-Correct.

6.5.2. V-AMP (16:9) ADJUSTMENT

1. Recive PAL monoscope pattern.
2. Set the aspect to 16:9.
3. Set scan mode to 100 Hz.
4. Confirm that A, B in the Fig. 7 is 6.0cm ± 1cm, if not, adjust V-AMP (100i / 16:9).
5. Set scan mode to progressive.
6. Confirm that A, B in the Fig. 7 is 6.0cm ± 1cm, if not, adjust V-AMP (50p / 16:9).
7. Receive NTSC monoscope pattern.
8. Set scan mode to 100Hz.
9. Confirm that A, B in the Fig. 7 is 6.0cm ± 1cm, If not, adjust V-AMP (120i / 16:9).
10. Set scan mode to progressive.
11. Confirm that A, B in the Fig. 7 is 6.0cm ± 1cm, If not, adjust V-AMP (60p / 16:9).

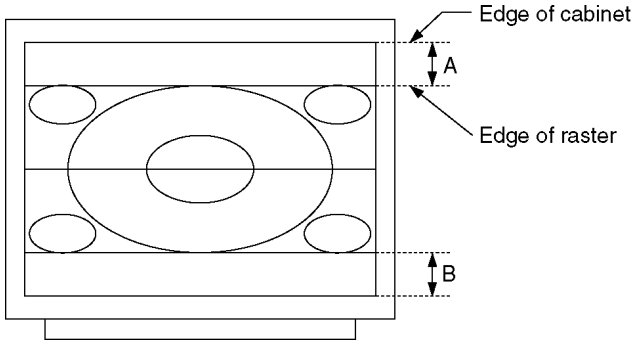


Fig. 7

6.6. 525p DEFLECTION ADJUSTMENT / CONFIRMATION

6.6.1. V,H-HOLD CONFIRMATION

1. Recive 525p signal.
2. Confirm V,H-hold is normal.

6.6.2. H-CENTER (525p) CONFIRMATION / ADJUSTMENT

1. Recive 525p signal.
2. Copy the data of 00h to EEROM ADRESS [333] (525p / H-POS).
3. Copy the data of F5h to EEROM ADRESS [332] (525p / H-POS).
4. Confirm H-center and if need, adjust H-POS (525p).

6.7. 625p DEFLECTION ADJUSTMENT

6.7.1. H-CENTER (625p) ADJUSTMENT

1. Recive 625p signal.
2. Copy the data of EEROM ADRESS [332] (525p / H-POS) to EEROM ADRESS [330] (625p / H-POS).
3. Copy the data of EEROM ADRESS [333] (525p / H-POS) to EEROM ADRESS [331] (625p / H-POS).

6.8. VGA480 / 60Hz DEFLECTION ADJUSTMENT / CONFIRMATION

6.8.1. V,H-HOLD CONFIRMATION

1. Receive VGA480 (60Hz) crosshatch pattern with border line.
2. Copy the data of 60p / 4:3 mode to VGA480 / 60Hz mode in the table 1.
3. Confirm V,H-hold is normal.
4. Set user control H-SIZE to “0”.

6.8.2. V-CENTER ADJUSTMENT

1. Adjust V-POS (VGA) so that center of the crosshatch pattern is center of the CTR.

6.8.3. V-HEIGHT ADJUSTMENT

1. Adjust V-AMP (VGA) so that A=B in the Fig. 8.

6.8.4. H-CENTER ADJUSTMENT

1. Adjust H-POS (VGA) so that horizontal position is center of CRT.

6.8.5. H-WIDTH ADJUSTMENT

1. Adjust H-AMP (VGA) so that C=D in the Fig. 8.

6.8.6. SIDE PINCUSSION ADJUSTMENT

1. Adjust the vertical line to straight line by Parabola (VGA).
2. Adjust the vertical line to straight line of bothside vertical line in Fig. 9 by Trapezoid (VGA).
3. Confirm there is no H-parallel distortion.
   If there is distortion, adjust by H-Pallalel (VGA).
   In that case, repeat 2. and 3. so that there is no trapezoid / pararell distortion.
4. Confirmation vertical pincussion of the corner side.
   If need, adjust Top-Corner (VGA) and Bottom-Corner (VGA).
5. Confirm bow level of the both side.
   If it is not symmetrical, adjust C-Correct (VGA).
6. Set H-SIZE in the user control to NORMAL.
   (No need, if SELF CHECK is done before shipping.)

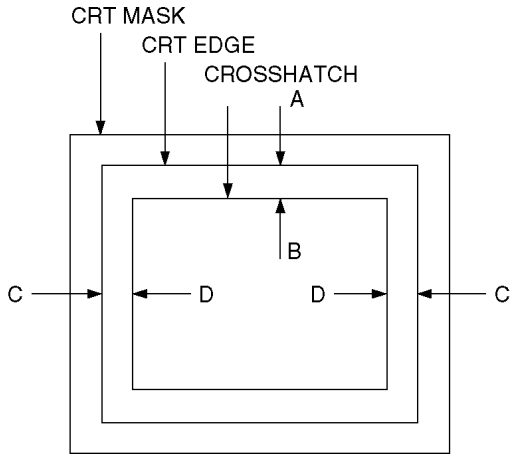


Fig. 8

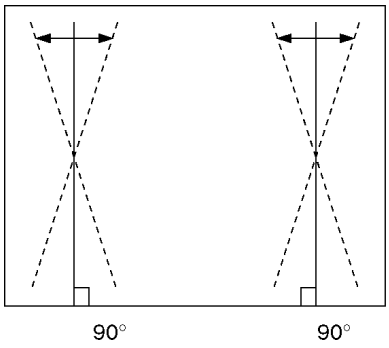


Fig. 9

6.9. VGA400 / 70Hz DEFLECTION ADJUSTMENT / CONFIRMATION

6.9.1. V,H-HOLD CONFIRMATION

1. Receive VGA400 (70Hz) crosshatch pattern with border line.
2. Copy the data of VGA480/60Hz mode to VGA400 / 70Hz mode in the table 1.
3. Confirm V,H-hold is normal.
4. Set user control H-SIZE to “0”.

6.9.2. V-CENTER ADJUSTMENT

1. Adjust V-POS (VGA 400) so that center of the crosshatich pattern is center of the CRT.

6.9.3. V-HEIGHT ADJUSTMENT

1. Adjust V-AMP (VGA 400) so that A=B in the Fig. 10.
2. Add 10 dac to the above date and set to EEPROM [336].

6.9.4. V-LINEARITY CONFIRMATION / ADJUSTMENT

1. Confirm V-linear as to the balance of the circle.
   If need, adjust V-linear (VGA 400).

6.9.5. SIDE PINCUSSION CONFIRMATION / ADJUSTMENT

1. Confirm the vertical line is straight line.
   If need, adjust the vertical line to straight line by Parabola (VGA 400).
2. Confirm bothside vertical line in Fig. 1. are straight line.
   If need, adjust the vertical line to straight line of bothside vertical line in Fig. 11. by Trapezoid (VGA 400).
3. Set H-SIZE in the user control to NORMAL.
   (No need, if SELF CHECK is done before shipping.)

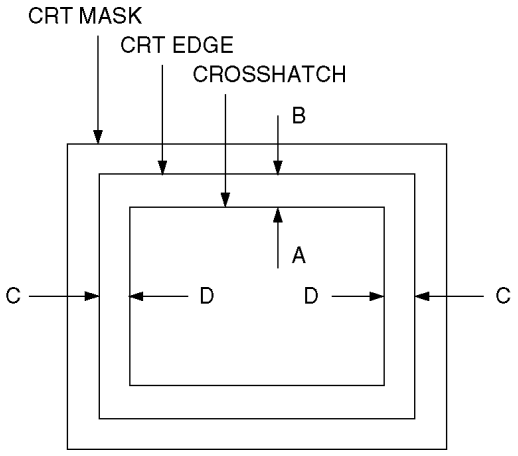


Fig. 10.

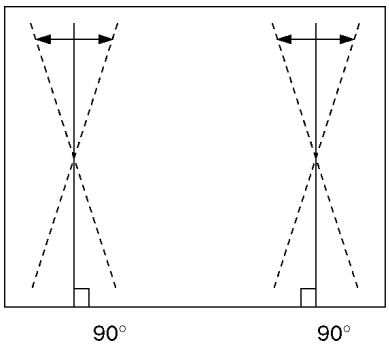


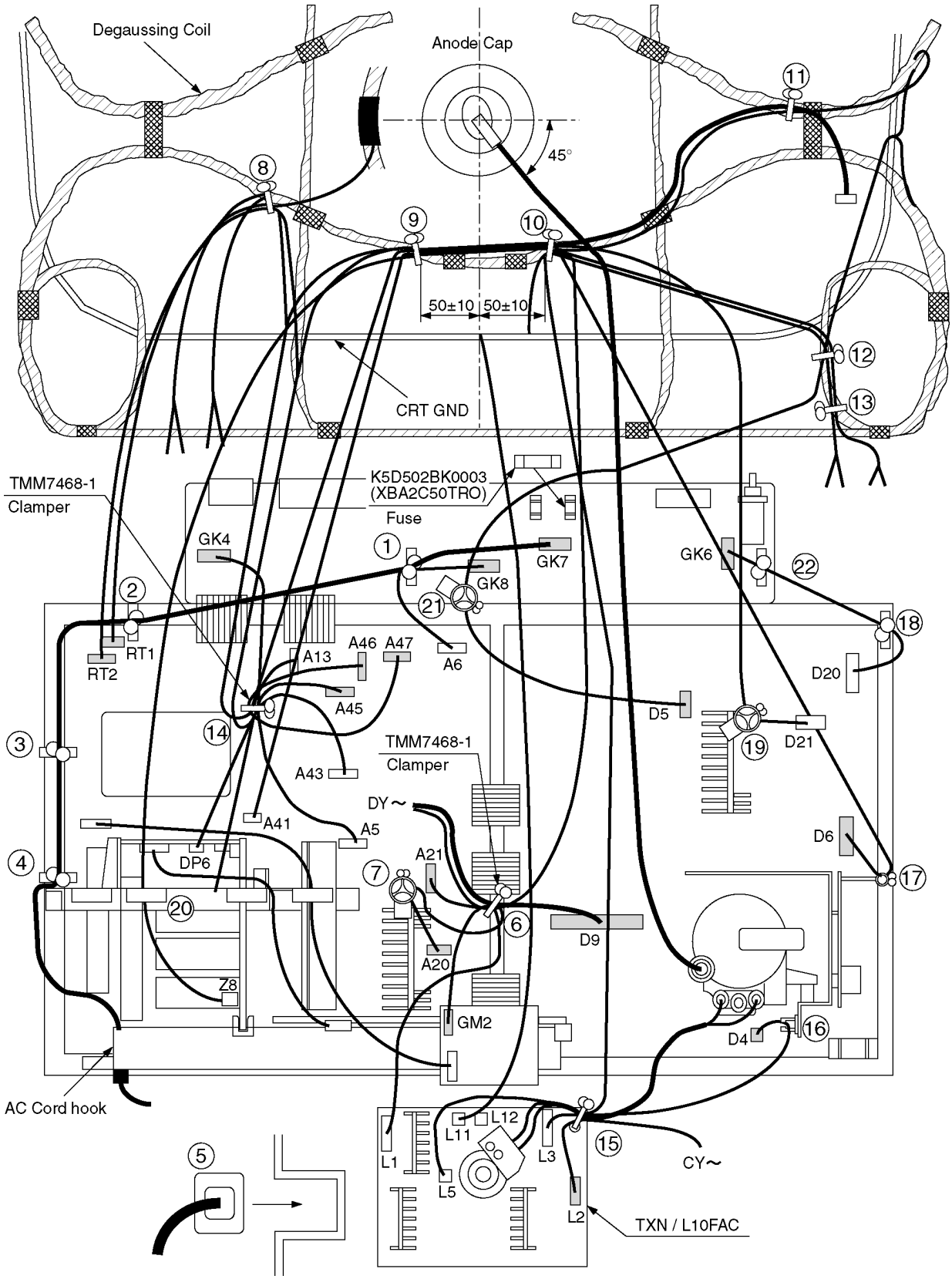
Fig. 11.

6.10. Table 1

mode	100i (4:3)	100i (16:9)	120i (4:3)	120i (16:9)	50p (4:3)	50p (16:9)	60p (4:3)	60p (16:9)	525p	625p	VGA 480/60H	VGA 400/70Hz
H-POS	adj, value [180]	–	adj, value [182]	–	–	–	–		adu, value [332] [333]	525p copy [330] [331]	adj, value [17E]	–
V-POS	adj, value [0D4]	adj, value [104]	adj, value [0D5]	adj, value [105]	adj, value [0D6]	adj, value [106]	adj, value [0D7]	adj, value [107]	–	–	adj, value [0DD]	adj, value [32D]
H-AMP	adj, value [3B0]	4:3 copy [150]	adj, value [3B1]	4:3 copy [151]	–	100i copy [152]	–	120i copy [153]	–	–	adj, value [336]	–
V-AMP	adj, value [3B6]	adj, value [154]	adj, value [3B7]	adj, value [155]	adj, value [3B8]	adj, value [156]	adj, value [3B9]	adj, value [157]	–	–	adj, value [337]	adj, value [32E]
Parabola	adj, value [3C6]	adj, value [15C]	adj, value [3C7]	adj, value [15D]	adj, value [3C8]	adj, value [15E]	adj, value [3C9]	adj, value [15F]	–	–	adj, value [339]	adj, value [101]
Trapezoid	adj, value [3EE]	adj, value [16C]	adj, value [3EF]	adj, value [16D]	adj, value [3F0]	adj, value [16E]	adj, value [3F1]	adj, value [16F]	–	–	adj, value [33D]	adj, value [100]
H -Parallel	adj, value [3C2]	adj, value [158]	adj, value [3C3]	adj, value [159]	adj, value [3C4]	adj, value [15A]	adj, value [3C5]	adj, value [15B]	–	–	adj, value [338]	–
V-linear	adj, value [3EA]	4:3 copy [168]	adj, value [3EB]	4:3 copy [169]	adj, value [3EC]	4:3 copy [16A]	adj, value [3ED]	4:3 copy [16B]	–	–	60p copy [33C]	VGA480 copy [32F]
Top -Corner	adj, value [3D2]	4:3 copy [160]	adj, value [3D3]	4:3 copy [161]	adj, value [3D4]	4:3 copy [162]	adj, value [3D5]	4:3 copy [163]	–	–	60p copy [33A]	VGA480 copy [102]
Bottom -Corner	adj, value [3DE]	4:3 copy [164]	adj, value [3DF]	4:3 copy [165]	adj, value [3E0]	4:3 copy [166]	adj, value [3E1]	4:3 copy [167]	–	–	60p copy [33B]	VGA480 copy [103]
V-S -Correct	fix, value [3FA] 0Bh	fix, value [170] 0Bh	fix, value [3FB] 0Bh	fix, value [171] 0Bh	fix, value [3FC] 0Ch	fix, value [172] 0Ch	fix, value [3FD] 0Ch	fix, value [173] 0Ch	–	–	fix, value [33E] 0Ch	fix, value [32C] 0Ch
C -Correct	adj, value [3FE]	4:3 copy [174]	adj, value [3FF]	4:3 copy [175]	–	100i copy [176]	–	120i copy [177]	–	–	120i copy [33F]	–

[ ].....EEPOM ADDRESS

7 Location of Lead Wring

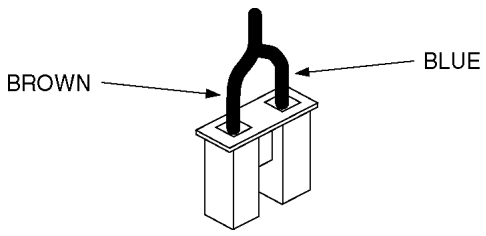


◎ Wind up second times ( ) Clamp in Chassis Ass'y

Clamper / Lead Wire	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒
AC Cord (GK7)	○	○	○	○	○																	
D20～GK6																		(○)				○
D21～Z8									○	○									(○)	(○)		
L3～D6										○					(○)		○					
DEG (D5)												○									○	
L5～D4															(○)	○						
Focus Screen															(○)							
DY (D9)						○																
DY (A20)						○	○															
CY (L2)																						
L1～A21						○																
CORRECT COIL～GM2						◎				○												
A5～GK4														○								
DP6～A43														○								
A41～ WOOFER BOX									○	○	○											
A47～ WOOFER BOX									○	○	○			○								
～A13														○								
A45～SP(L)									○	○		○	○	○								
A45～SP(R)																						
A46～ TWEETER(L)									○	○		○	○	○								
A46～ TWEETER(L)																						
ROTATION COIL ～RT1								○														
DEGAUSSING COIL～RT2								○														
A6～GK8	○																					

Caution Point

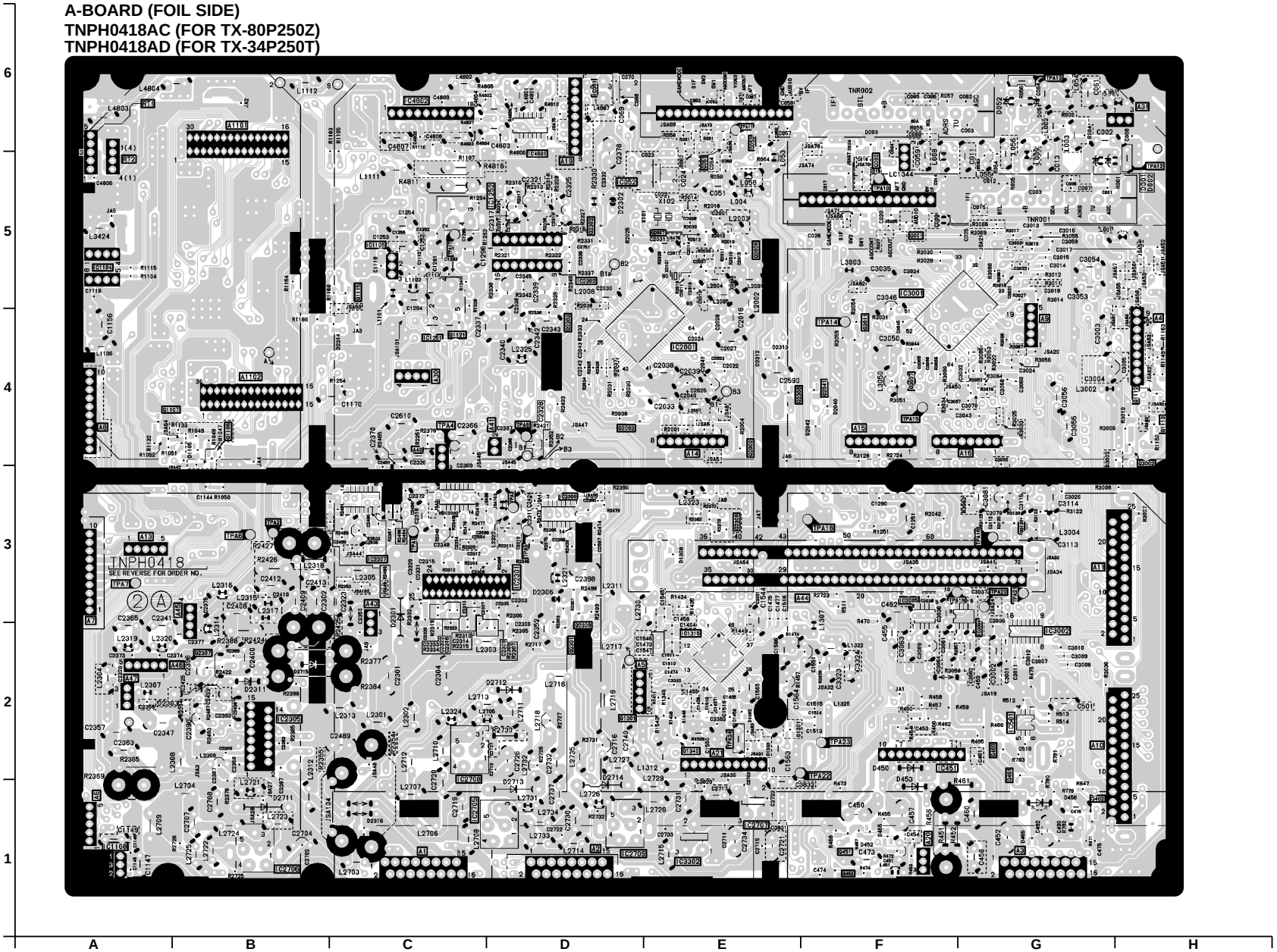
1. The Lead Wires should not touch Heat parts.
2. The Lead Wires should separated at least 10 mm from FBT.
3. Insert the power code connector following the colour code instruction on the print board.

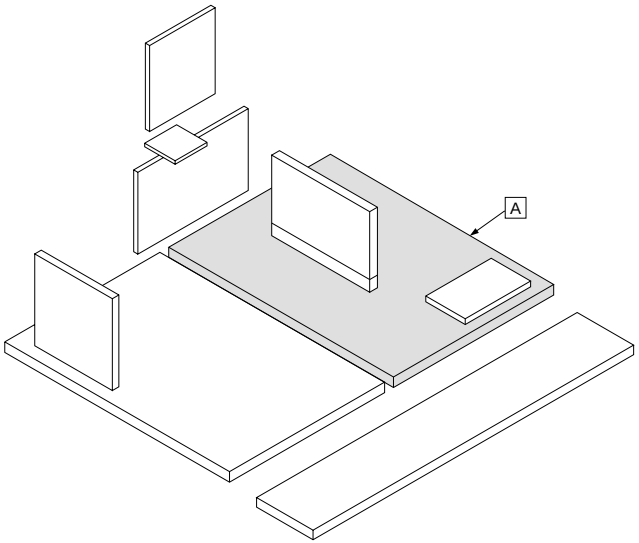


8 Conductor Views

8.1. A-Board

A-BOARD (FOIL SIDE)
TNPH0418AC (FOR TX-80P250Z)
TNPH0418AD (FOR TX-34P250T)





PARTS LOCATION

A-BOARD (FOIL SIDE)

IC		Q1121	C-4
IC052	D-5	Q1301	D-2
IC451	F-2	Q1340	E-2
IC501	G-2	Q2002	E-4
IC1104	A-5	Q2003	D-4
IC1105	C-5	Q2006	E-5
IC1108	A-1	Q2007	E-5
IC1252	C-5	Q2041	F-4
IC1261	C-5	Q2301	D-2
IC1315	E-2	Q2302	D-5
IC2001	E-4	Q2303	D-4
IC2301	C-3	Q2306	E-3
IC2302	D-5	Q2307	B-2
IC2305	B-2	Q2308	E-4
IC2306	D-3	Q2309	D-2
IC2307	C-3	Q3002	H-4
IC2705	D-1	Q3007	F-4
IC2706	B-1	Q3011	F-4
IC2707	E-1	Q3120	G-3
IC2708	C-2	**TP**	
IC2709	D-1	TPA1	C-3
IC3001	F-4	TPA2	B-3
IC3002	G-2	TPA3	D-3
IC3004	G-3	TPA4	C-4
IC3005	F-3	TPA5	D-3
IC3302	E-1	TPA6	B-3
IC4801	D-5	TPA7	A-3
IC4802	C-6	TPA8	D-4
TRANSISTOR		TPA10	F-5
Q001	F-5	TPA11	E-6
Q002	F-5	TPA13	G-6
Q051	E-5	TPA14	F-4
Q052	E-6	TPA15	F-4
Q451	F-1	TPA16	G-3
Q460	G-2	TPA17	C-5
Q461	G-2	TPA18	F-3
Q462	G-1	TPA19	F-3
Q463	F-1	TPA20	G-3
Q1106	B-4	TPA21	G-3
Q1107	A-4	TPA22	E-2
Q1112	H-4	TPA23	F-2
Q1113	H-4	TPA24	E-2
Q1115	C-5		

ADDRESS INFORMATION

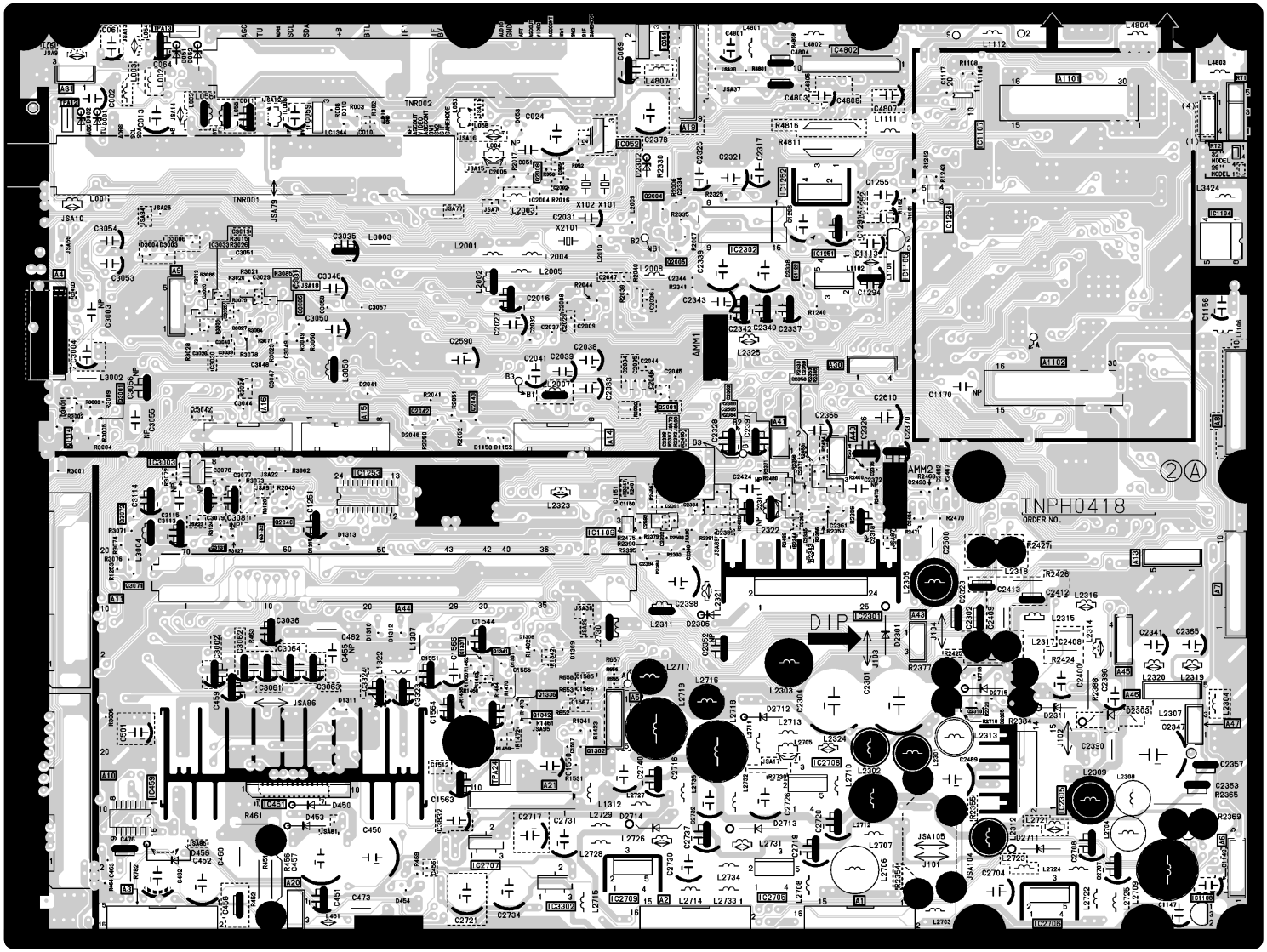
PARTS LOCATION

A-BOARD (COMPONENT SIDE)

IC		Q1302	L-2
IC052	L-5	Q1336	L-2
IC451	K-2	Q1337	L-3
IC459	J-2	Q1341	L-2
IC1104	P-5	Q1342	L-2
IC1105	N-5	Q2001	M-4
IC1107	O-5	Q2004	M-5
IC1108	P-1	Q2005	M-5
IC1109	M-3	Q2008	L-5
IC1252	N-5	Q2040	K-3
IC1253	K-3	Q2042	K-4
IC1254	N-5	Q2043	L-4
IC1261	N-5	Q2310	N-2
IC2301	N-3	Q3001	J-4
IC2302	M-5	Q3006	K-4
IC2305	O-2	Q3071	J-3
IC2307	L-1	Q3072	J-3
IC2705	M-1	Q3072	J-3
IC2706	O-1	Q3131	J-3
IC2708	N-2	Q3132	J-3
IC2709	M-1	**TP**	
IC3003	J-3	TPA12	J-6
IC3302	L-1	TPA13	I-6
IC4802	N-6		
TRANSISTOR			
Q1114	I-4		
Q1122	M-5		

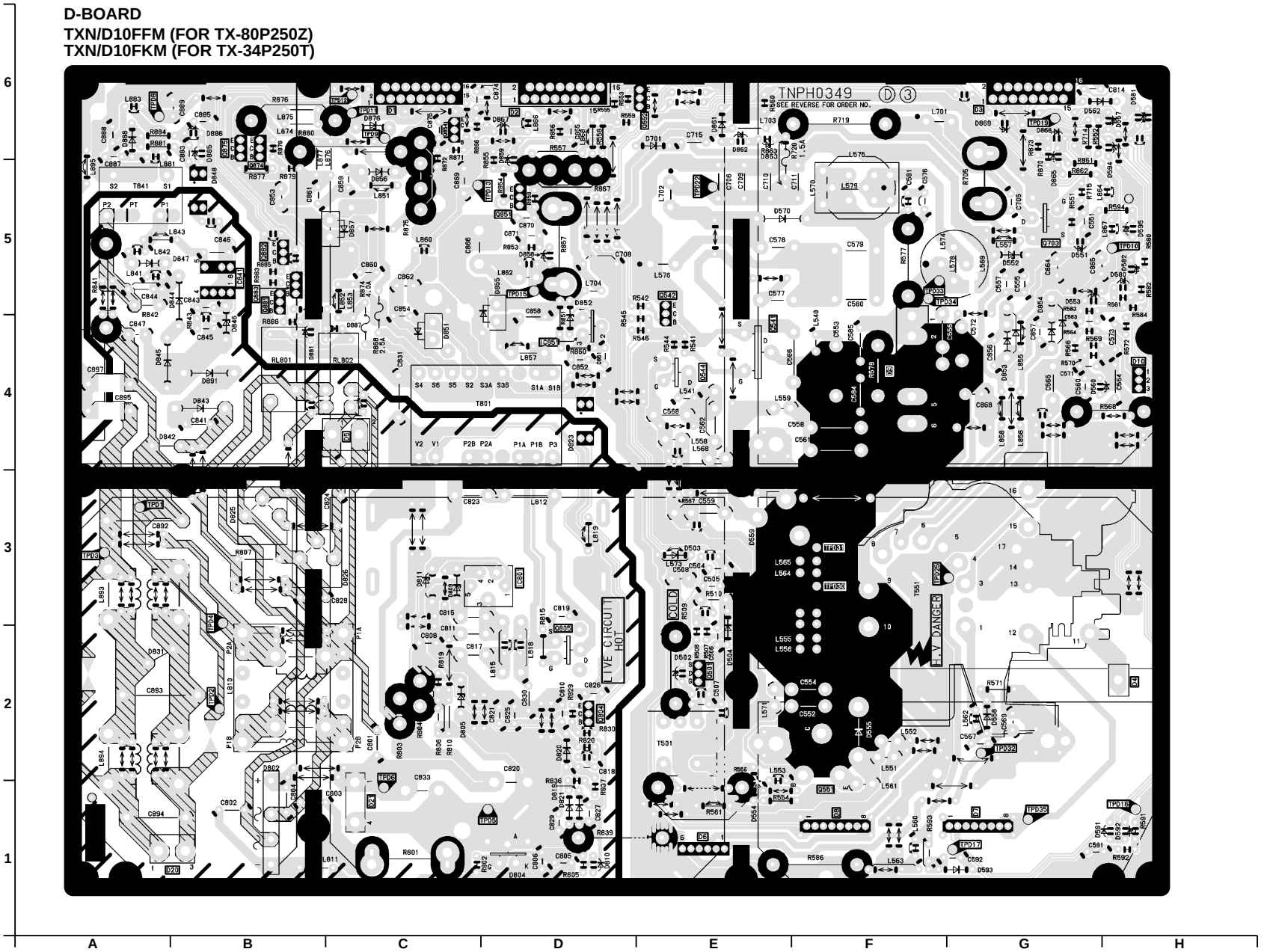
ADDRESS INFORMATION

A-BOARD (COMPONENT SIDE)
TNPH0418AC (FOR TX-80P250Z)
TNPH0418AD (FOR TX-34P250T)

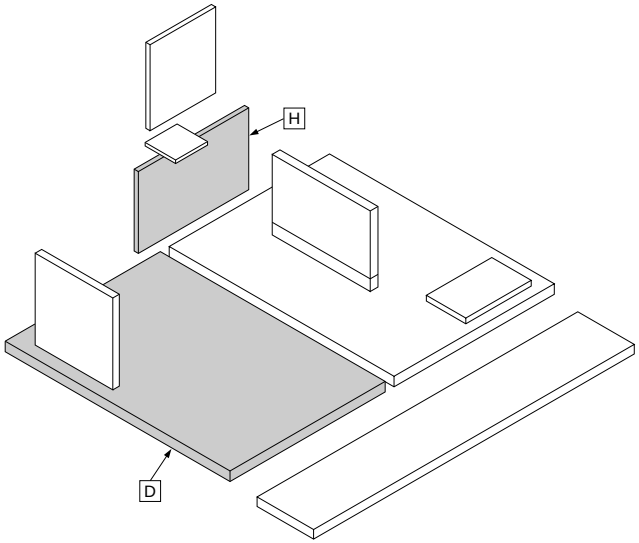


8.2. D-Board

D-BOARD
TXN/D10FFM (FOR TX-80P250Z)
TXN/D10FKM (FOR TX-34P250T)



8.3. H-Board

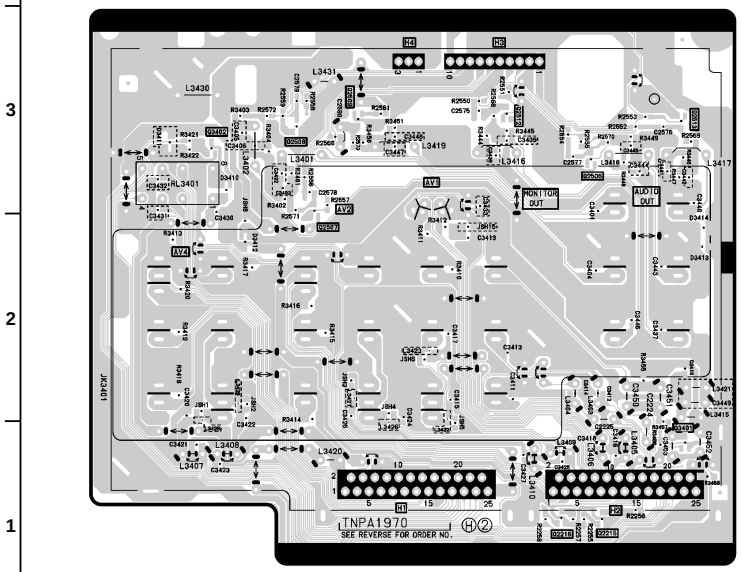


PARTS LOCATION

D-BOARD			
IC		TPD3	A-3
IC801	D-3	TPD4	B-3
IC841	B-5	TPD6	C-1
IC851	D-4	TPD8	A-6
TRANSISTOR		TPD9	C-6
Q501	E-2	TPD10	H-5
Q541	E-5	TPD11	C-6
Q542	E-5	TPD12	C-6
Q544	E-4	TPD13	C-5
Q551	F-1	TPD15	D-5
Q552	E-6	TPD16	H-1
Q703	G-5	TPD17	G-1
Q804	D-2	TPD19	G-6
Q805	D-2	TPD22	E-5
Q851	D-5	TPD25	F-4
Q854	C-6	TPD30	F-4
Q874	B-6	TPD31	F-4
Q875	B-6	TPD32	G-2
Q881	B-5	TPD33	F-5
Q882	B-5	TPD34	F-5
Q883	B-5	TPD35	G-1
TP			
TPD1	A-3		
TPD2	B-2		

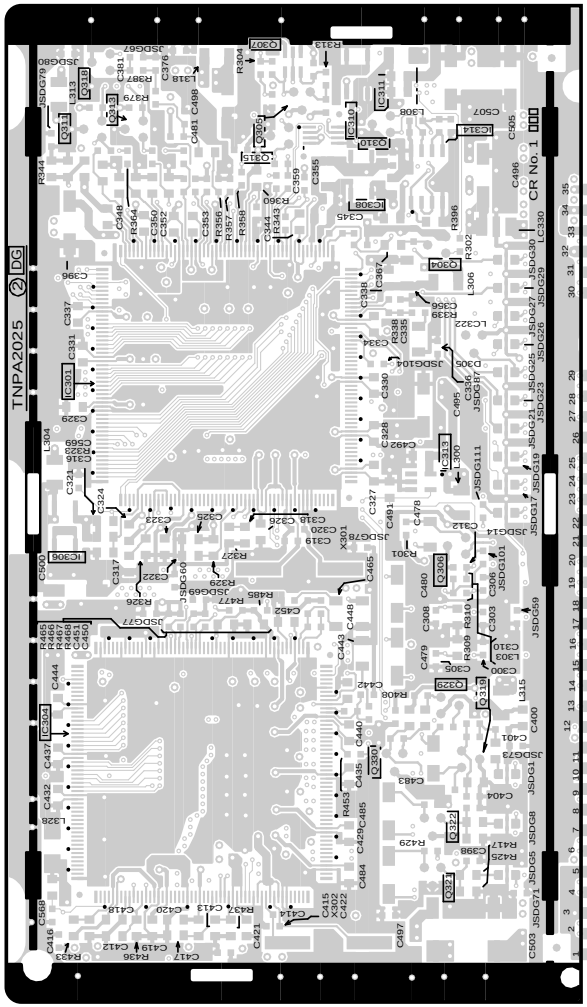
ADDRESS INFORMATION

H-BOARD (FOIL SIDE)
TNPA1970AB

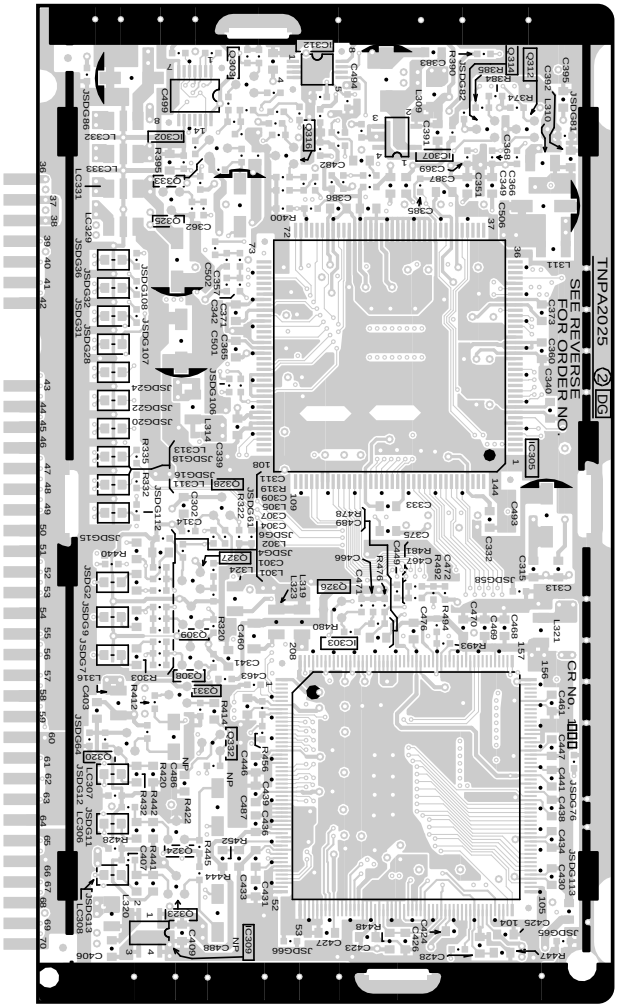


8.4. DG-Board

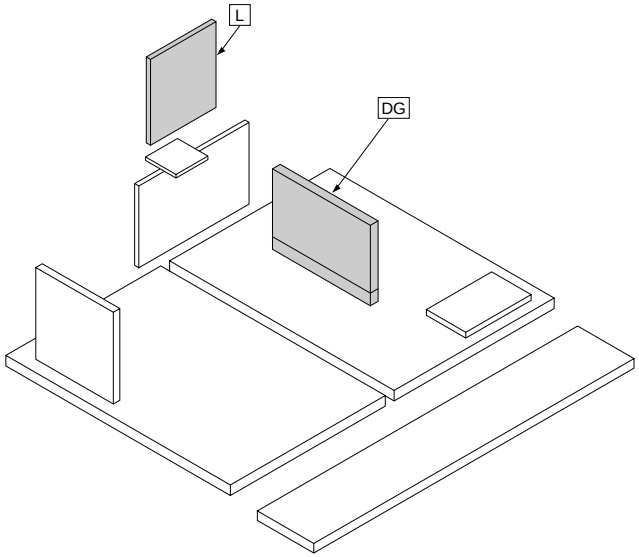
DG-BOARD (COMPONENT SIDE)
TXNDG10FPM



DG-BOARD (FOIL SIDE)
TXNDG10FPM



8.5. L-Board

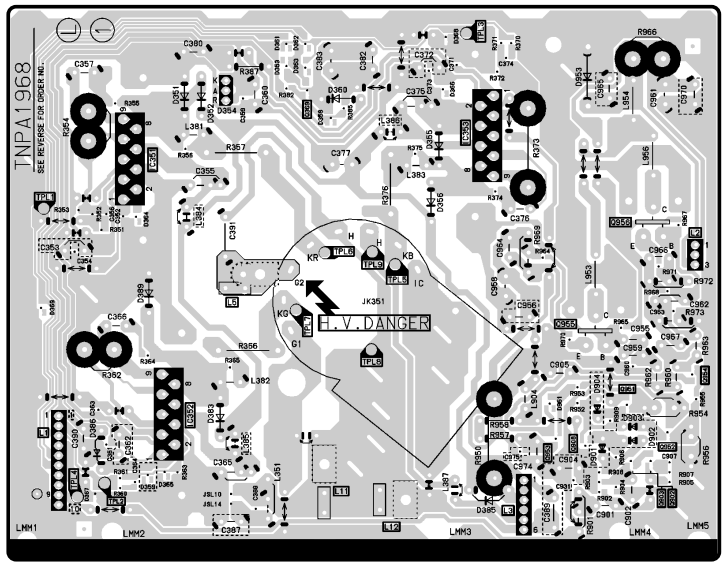


PARTS LOCATION

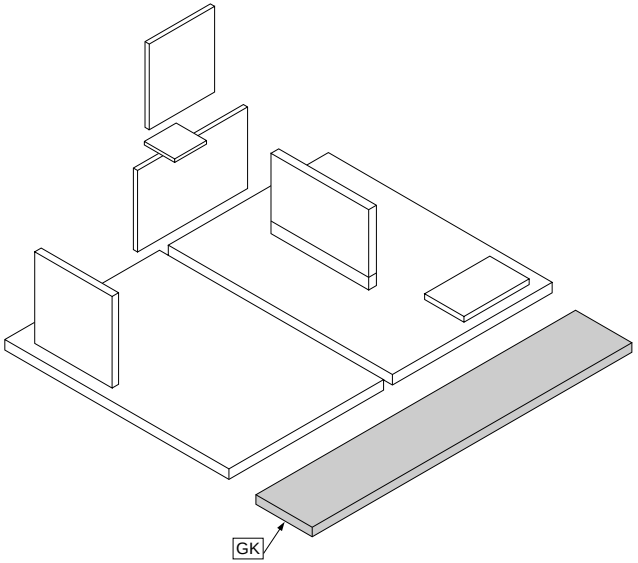
DG-BOARD			
IC		Q310	C-5
IC301	B-4	Q311	B-5
IC302	G-5	Q312	H-5
IC303	H-2	Q313	B-5
IC304	B-2	Q314	H-5
IC305	H-4	Q315	C-5
IC306	B-3	Q316	G-5
IC307	H-5	Q318	B-5
IC308	C-5	Q319	D-2
IC309	F-1	Q320	F-2
IC310	C-5	Q321	C-2
IC311	C-5	Q322	C-2
IC312	G-5	Q323	G-1
IC313	C-4	Q324	G-2
IC314	C-5	Q325	G-5
TRANSISTOR		Q326	G-3
Q303	G-5	Q327	G-3
Q304	C-5	Q328	G-3
Q305	C-5	Q329	C-3
Q306	C-3	Q330	C-2
Q307	C-6	Q331	G-2
Q308	G-3	Q332	G-2
Q309	G-3	Q333	G-5

ADDRESS INFORMATION

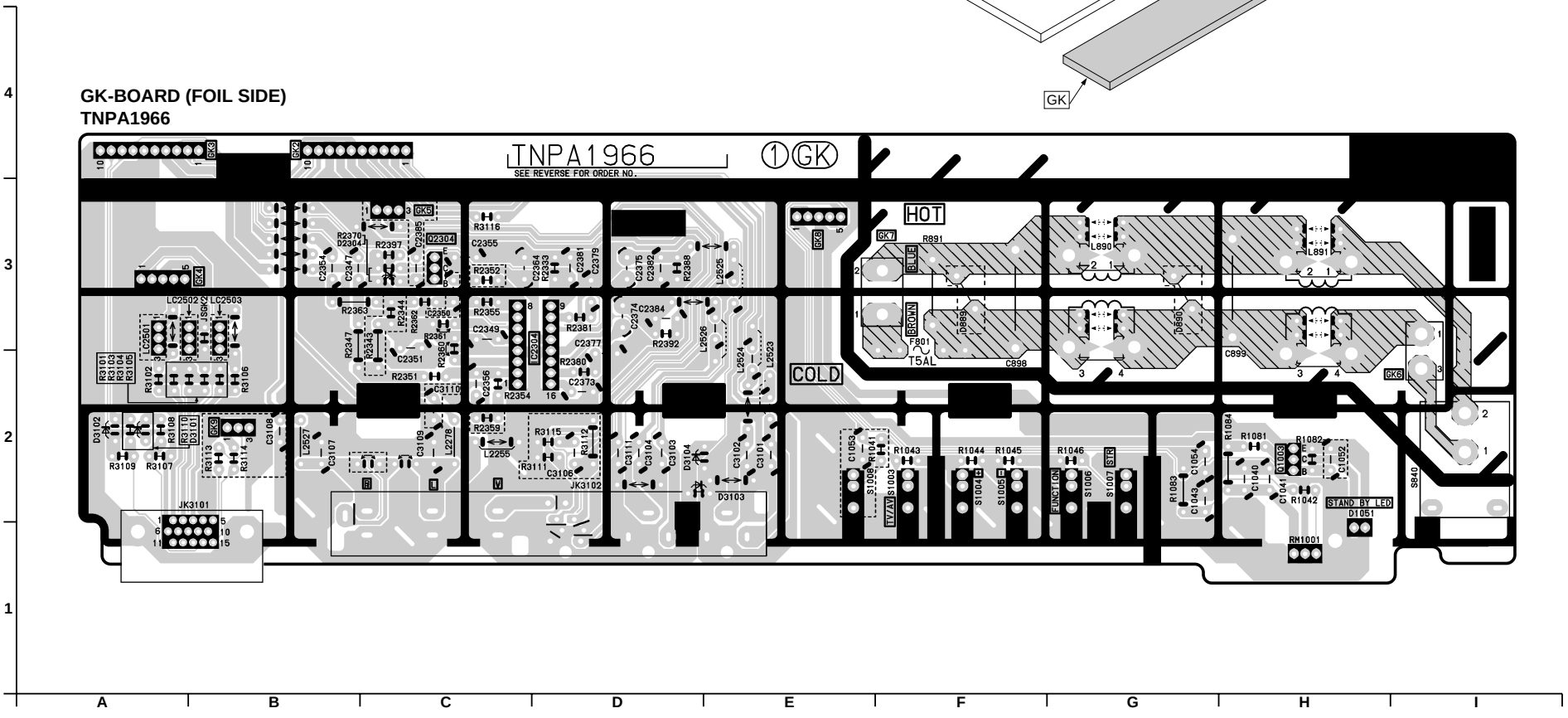
L-BOARD
(FOIL SIDE)
TNPA1968



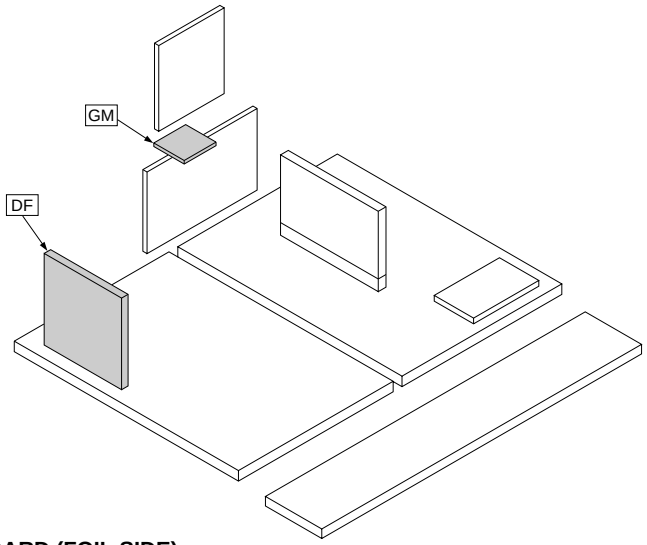
8.6. GK-Board



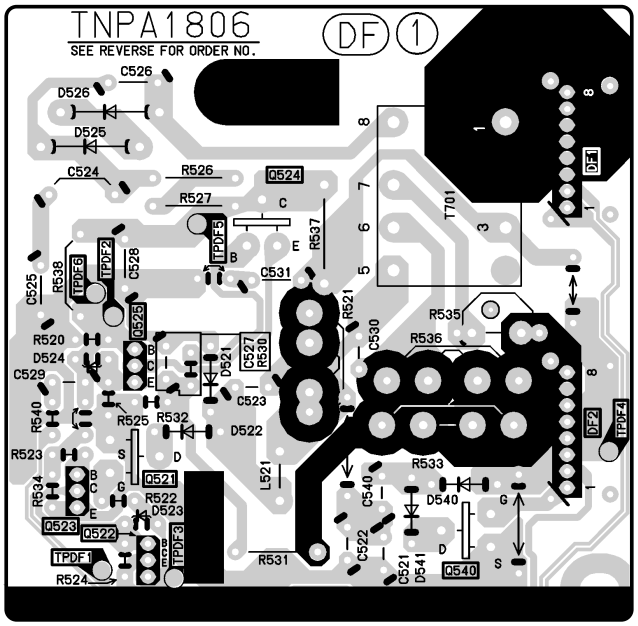
GK-BOARD (FOIL SIDE)
TNPA1966



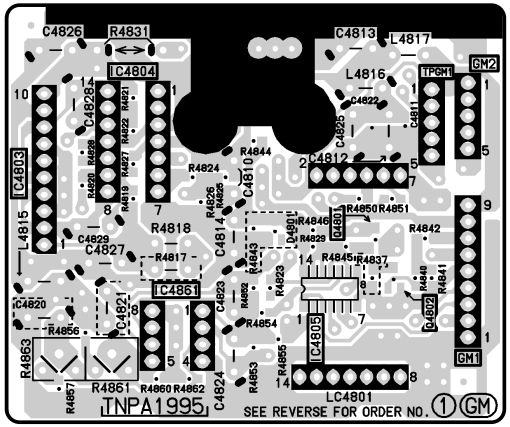
8.7. DF-Board and GM-Board



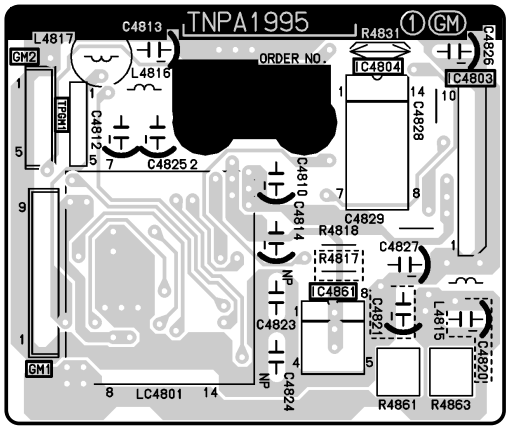
DF-BOARD (FOIL SIDE)
TNPA1806AB



GM-BOARD
(FOIL SIDE)
TNPA1995

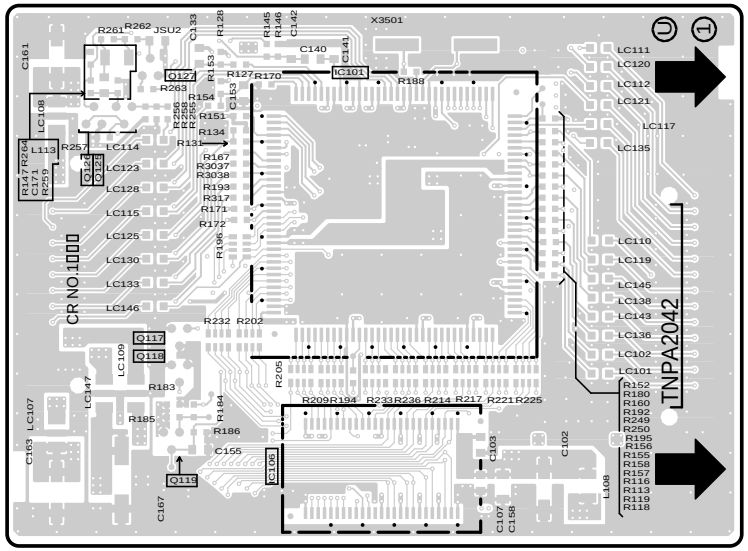


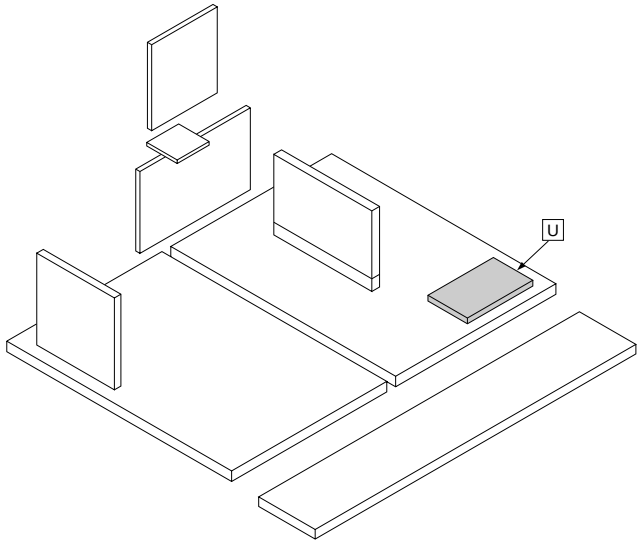
GM-BOARD
(CONPONENT SIDE)
TNPA1995



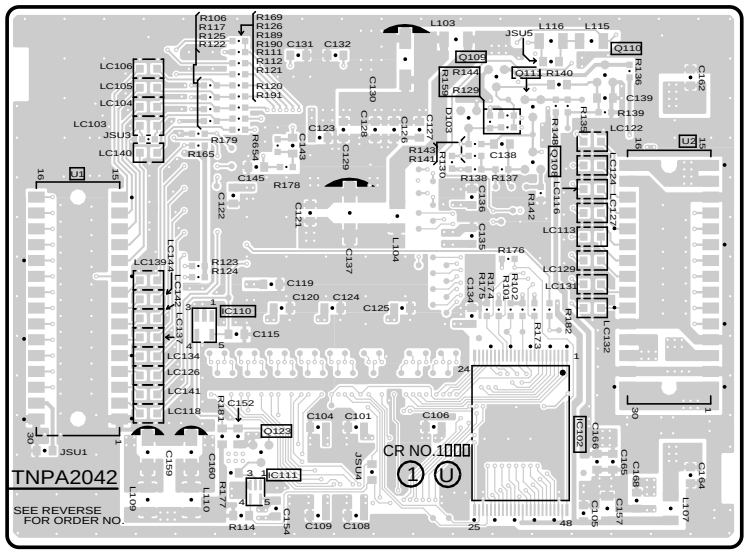
8.8. U-Board

U-BOARD (FOIL SIDE)
TNPA2042



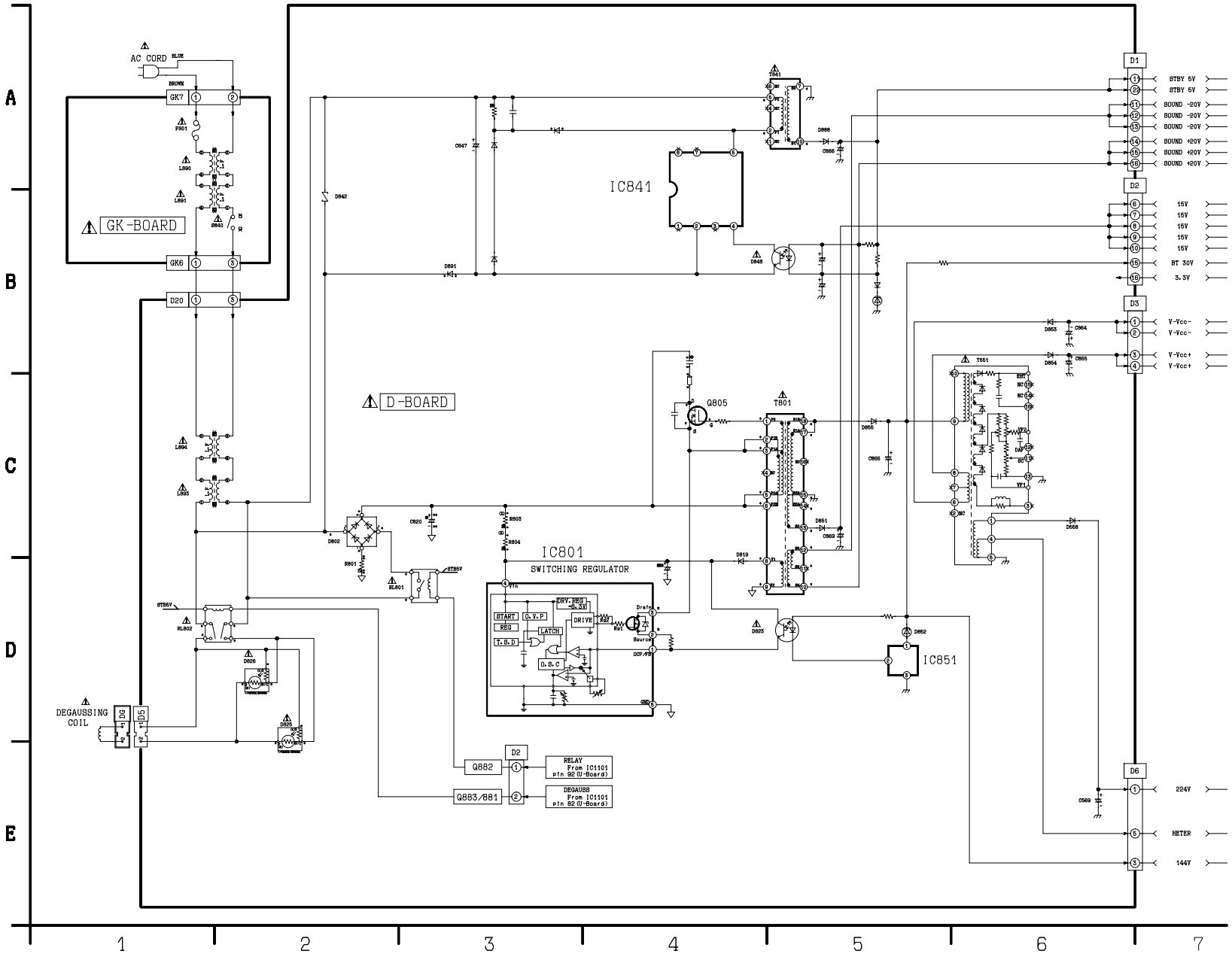


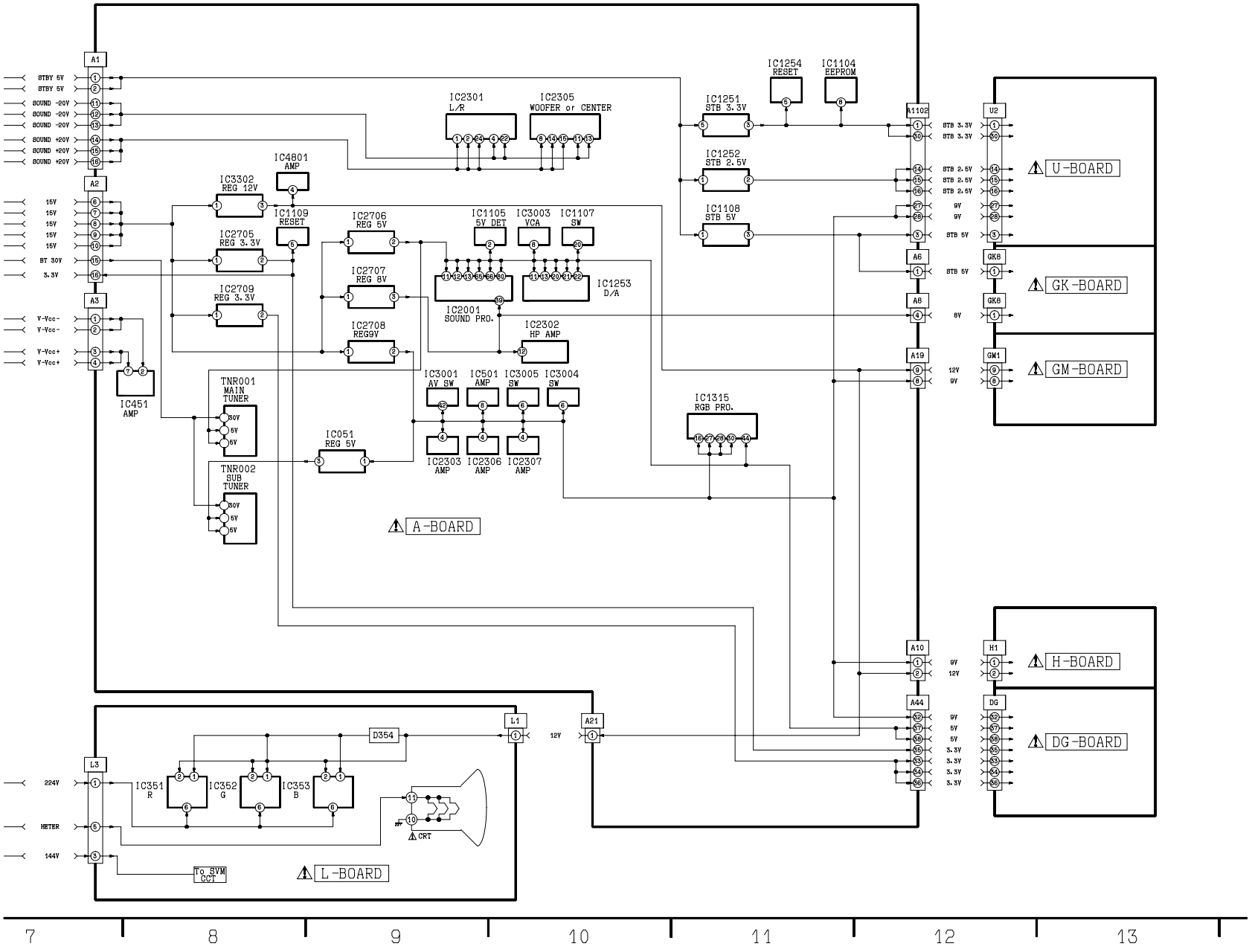
U-BOARD (COMPONENT SIDE)
TNPA2042



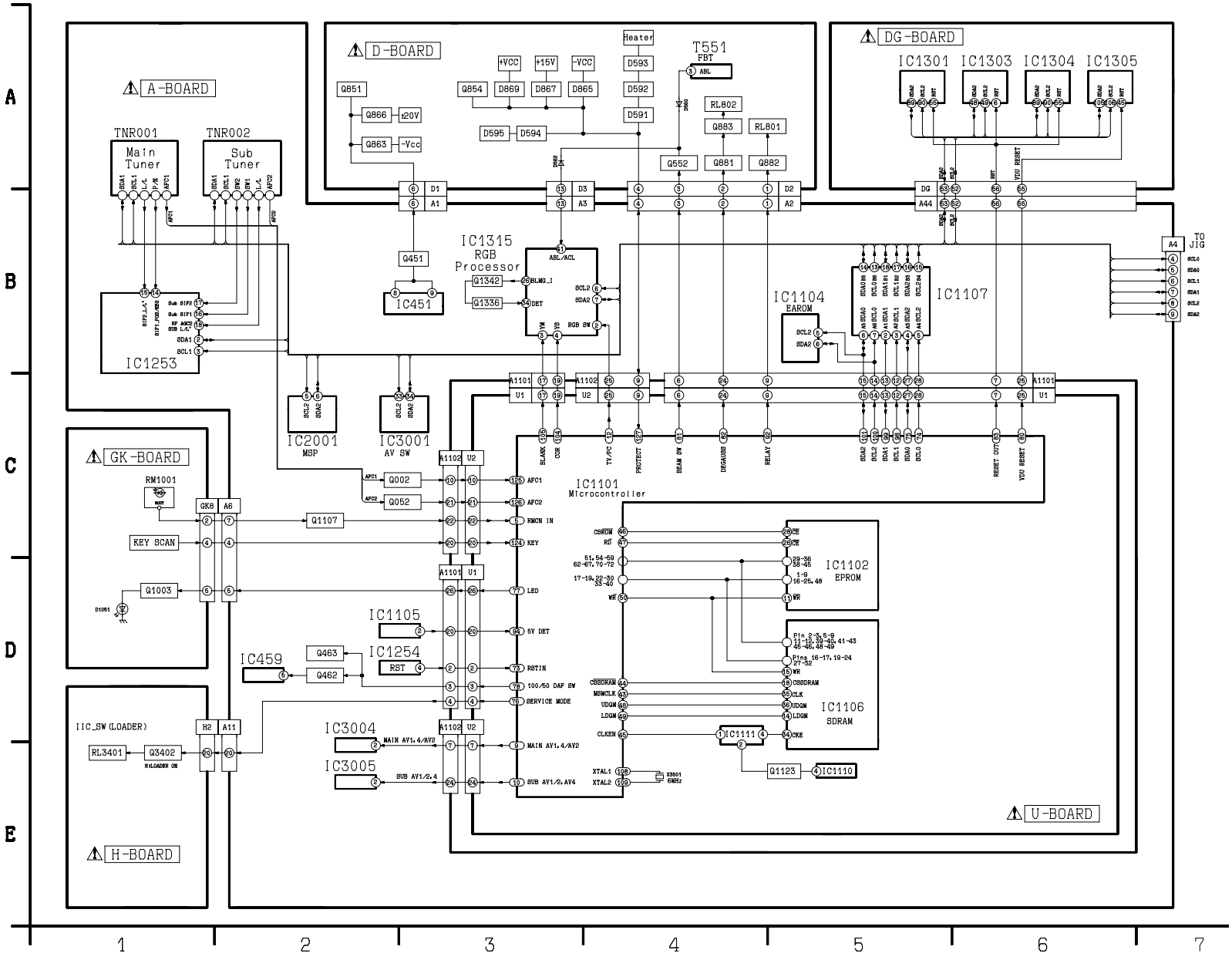
9 Block Diagram

9.1. Power Block Diagram

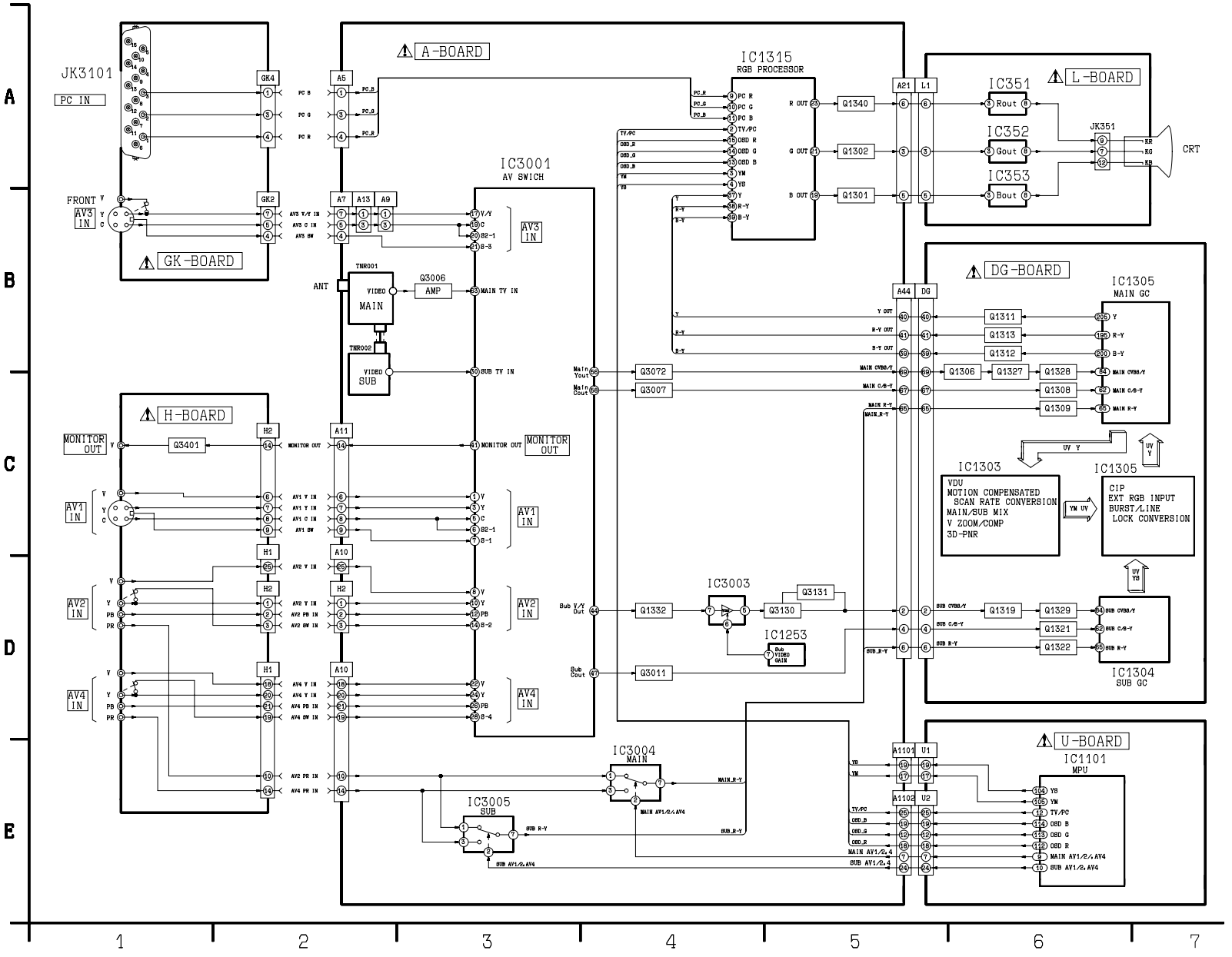



A1
STBY 5V
STBY 5V
SOUND -20V
SOUND -20V
SOUND -20V
SOUND +20V
SOUND +20V
SOUND +20V
A2
15V
15V
15V
15V
15V
BT 30V
3.3V
A3
V-Vcc-
V-Vcc-
V-Vcc+
V-Vcc+
IC451
AMP
IC4801
AMP
IC3302
REG 12V
IC1109
RESET
IC2705
REG 3.3V
IC2709
REG 3.3V
IC2706
REG 5V
IC2707
REG 8V
IC2708
REG9V
IC2301
L/R
IC2305
WOOFER or CENTER
IC1105
5V DET
IC3003
VCA
IC1107
SW
IC1253
D/A
IC2001
SOUND PRO.
IC2302
HP AMP
IC3001
AV SW
IC501
AMP
IC3005
SW
IC3004
SW
IC2303
AMP
IC2306
AMP
IC2307
AMP
IC1315
RGB PRO.
IC051
REG 5V
TNR001
MAIN
TUNER
TNR002
SUB
TUNER
30V
5V
5V
A-BOARD
IC1254
RESET
IC1104
EEPROM
IC1251
STB 3.3V
IC1252
STB 2.5V
IC1108
STB 5V
A1102
U2
STB 3.3V
STB 3.3V
STB 2.5V
STB 2.5V
STB 2.5V
9V
9V
STB 5V
U-BOARD
A6
GK8
STB 5V
A8
GK8
8V
GK-BOARD
A19
GM1
12V
9V
GM-BOARD
A10
H1
9V
12V
H-BOARD
A44
DG
9V
5V
5V
3.3V
3.3V
3.3V
3.3V
DG-BOARD
L3
224V
HETER
144V
IC351
R
IC352
G
IC353
B
D354
L1
12V
A21
CRT
To SVM
CCT
L-BOARD
7
8
9
10
11
12
13

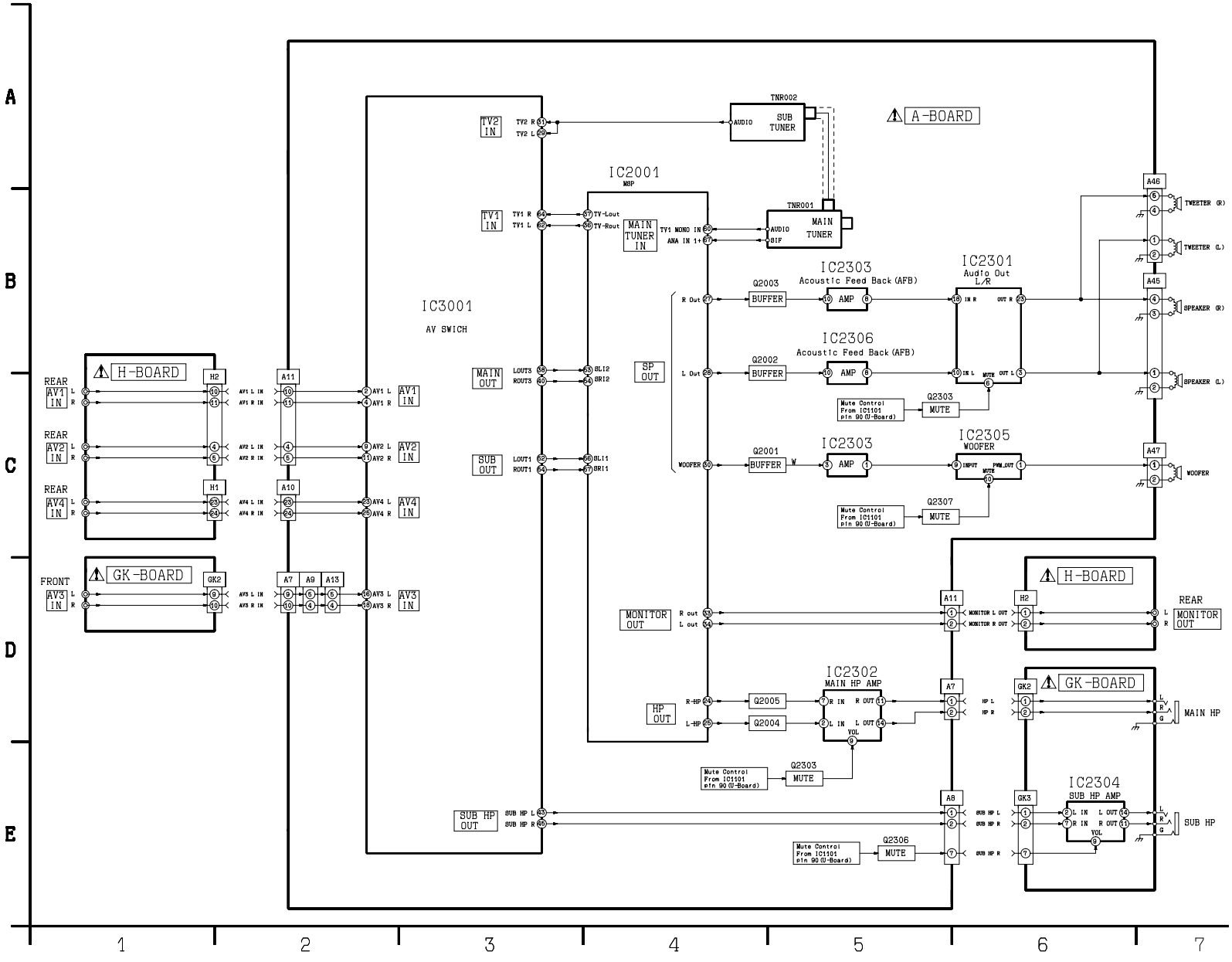
9.2. Control Block Diagram



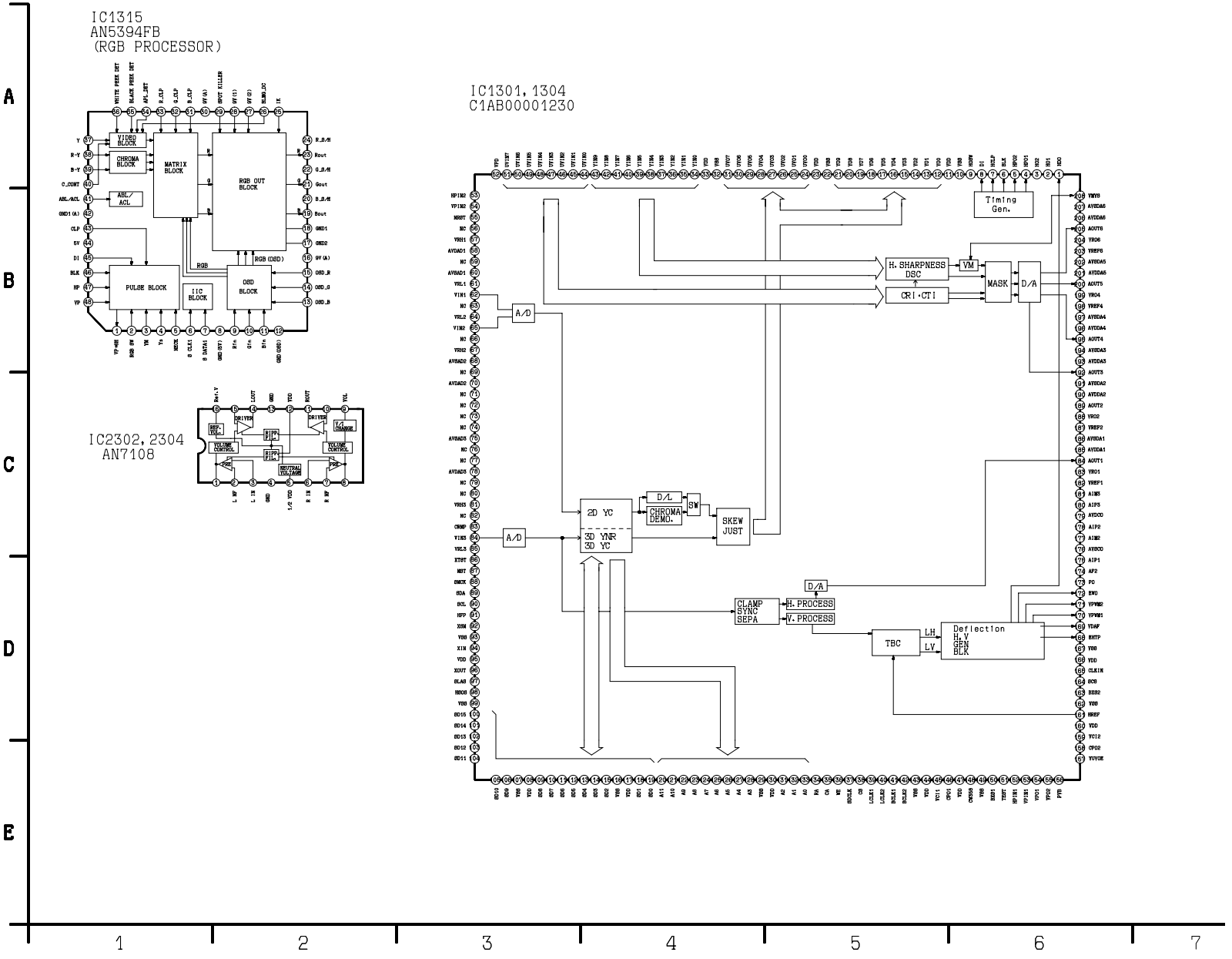
9.3. Video Block Diagram



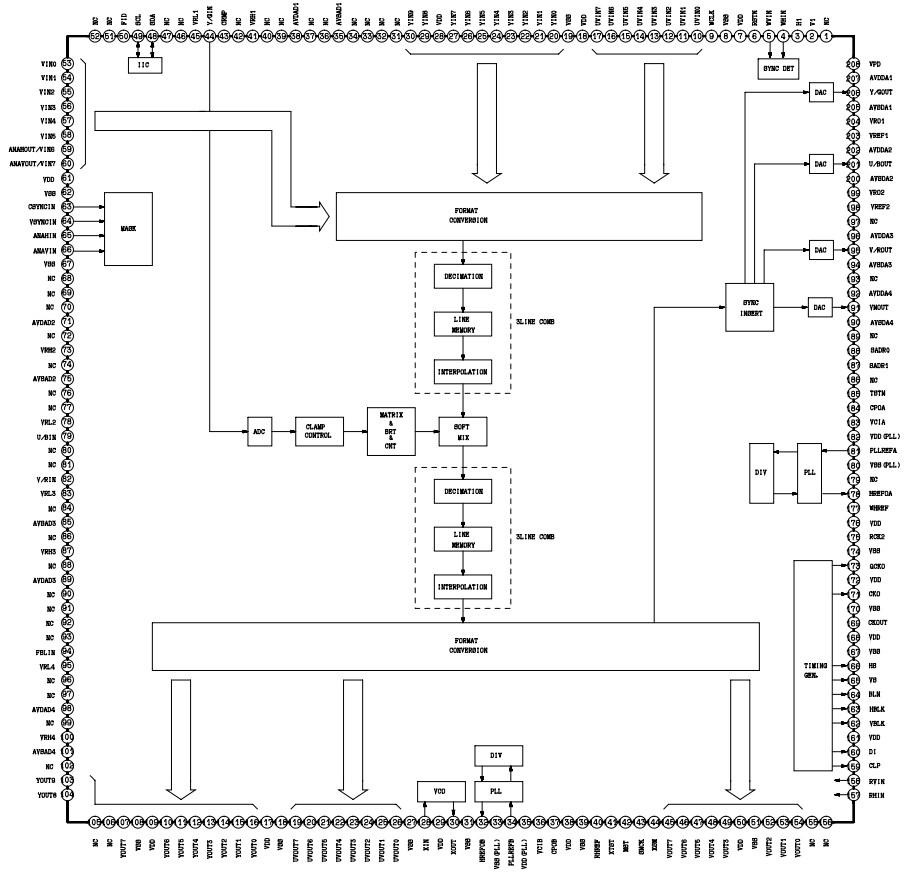
9.4. Audio Block Diagram



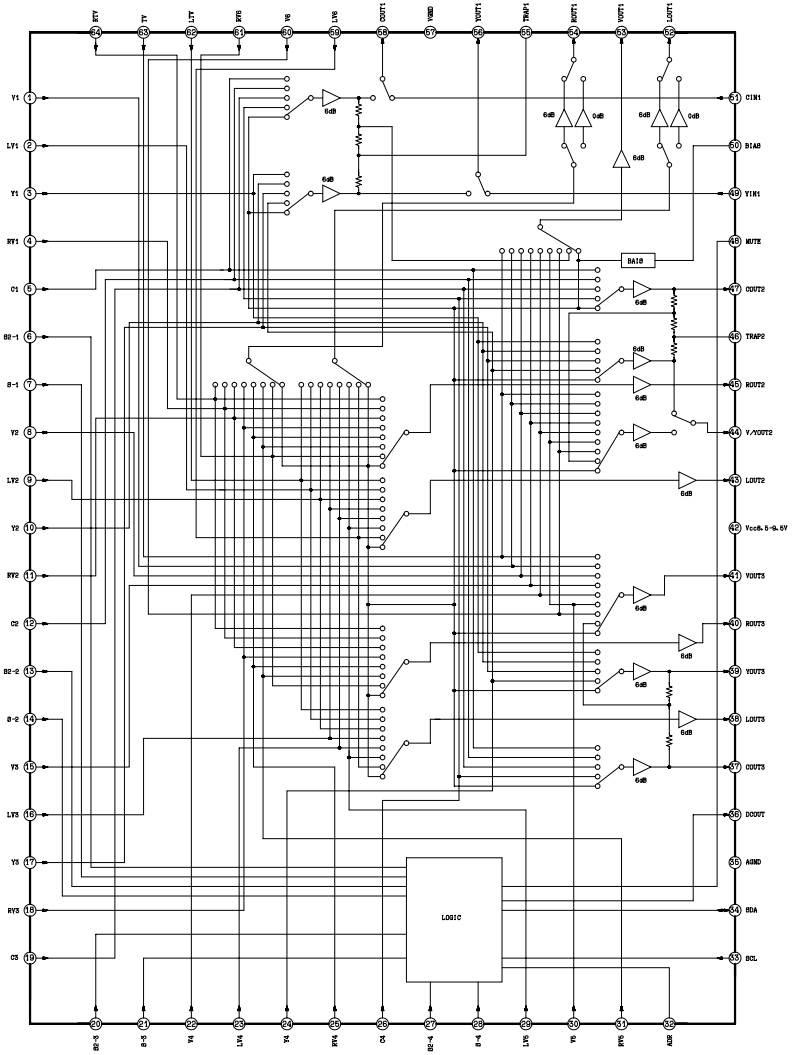
9.5. IC Block Diagram



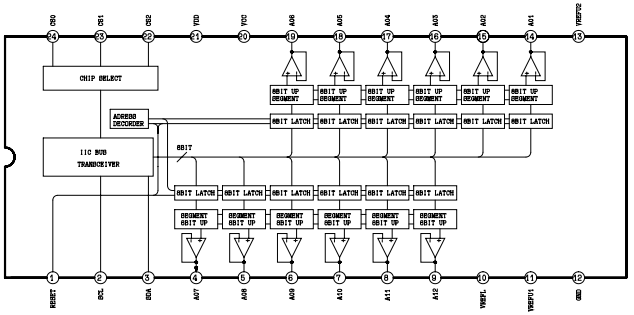
IC1303
C1AB00001282



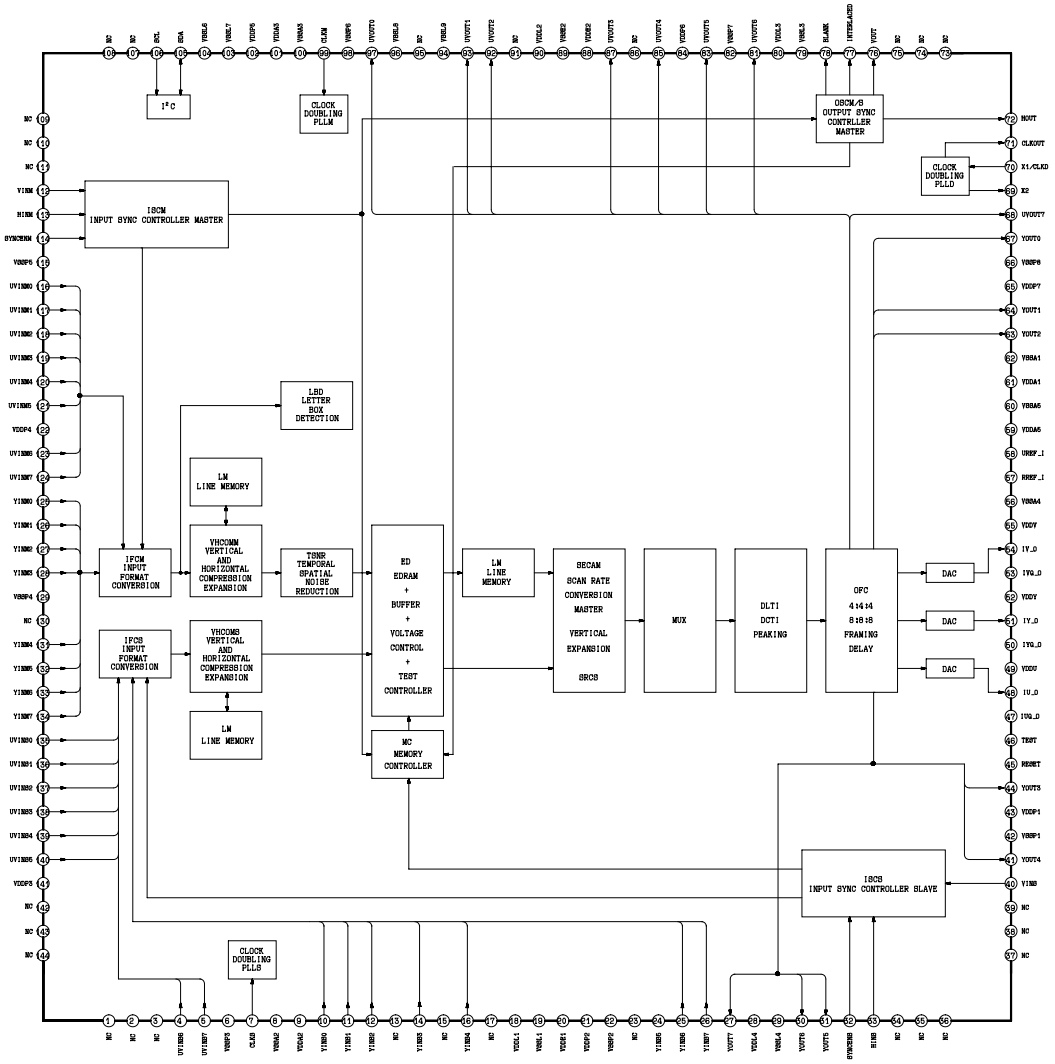
IC3001
CXA2069Q
(AV SWITCHING)



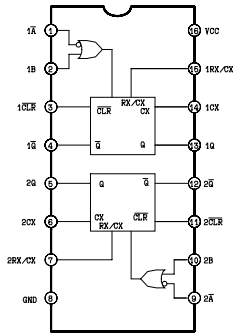
IC1253
M62392FP
(D/A Converter)



IC3001
SDA9415



IC459
TC74HC221AF



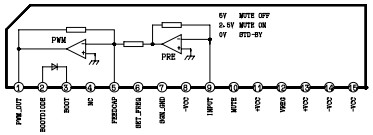
INPUTS			OUTPUTS		NOTE
Ā	B	C̄LR	Q	Q̄	
↓	H	H	⊓	⊔	OUTPUT ENABLE
X	L	H	L	H	INHIBIT
H	X	H	L	H	INHIBIT
L	↓	H	⊓	⊔	OUTPUT ENABLE
L	H	↓	⊓	⊔	OUTPUT ENABLE
X	X	L	L	H	INHIBIT

X :DON'T CARE

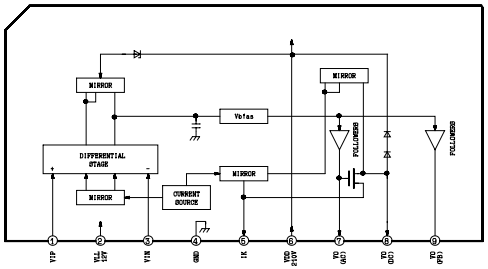
IC1111
TC7SH32FU

A	B	Y
L	L	L
L	H	H
H	L	H
H	H	L

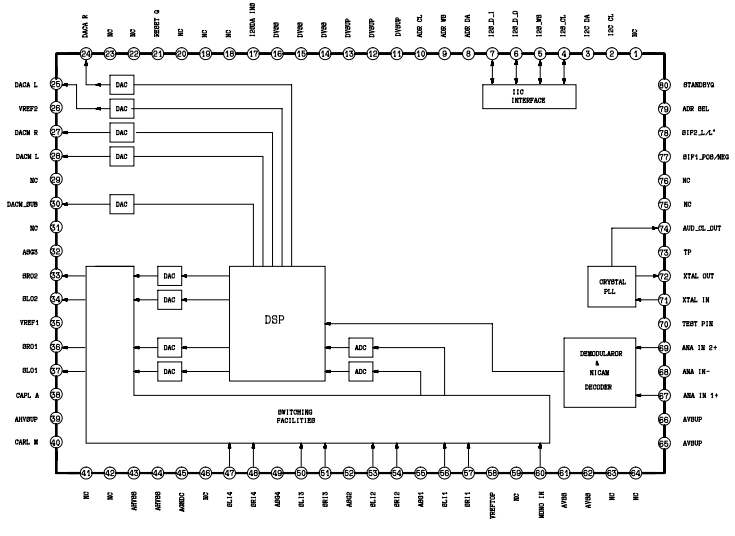
IC2305
TDA7481



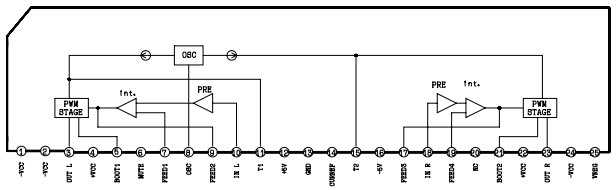
IC351-353
TDA6111Q



IC2001
TVSA0431



IC2301
TDA7490



10 Schematic Diagrams

10.1. Schematic Diagram Notes

Important Safety Notice

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

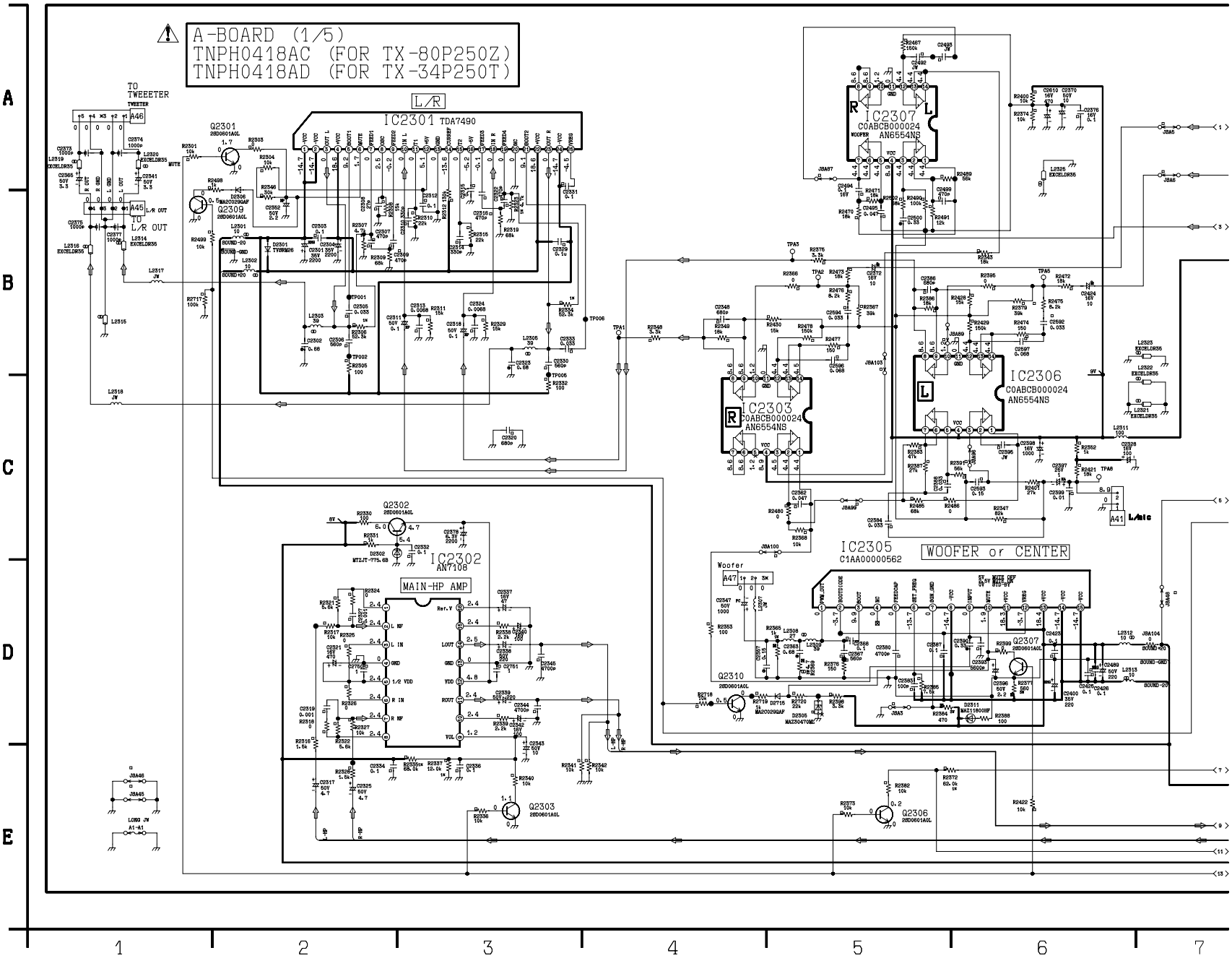
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, 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 capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation +⊣⊢ : Electrolytic
   Ⓜ : Polyester NP⊣⊢ : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene Ⓩ : 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 nember.
   (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.

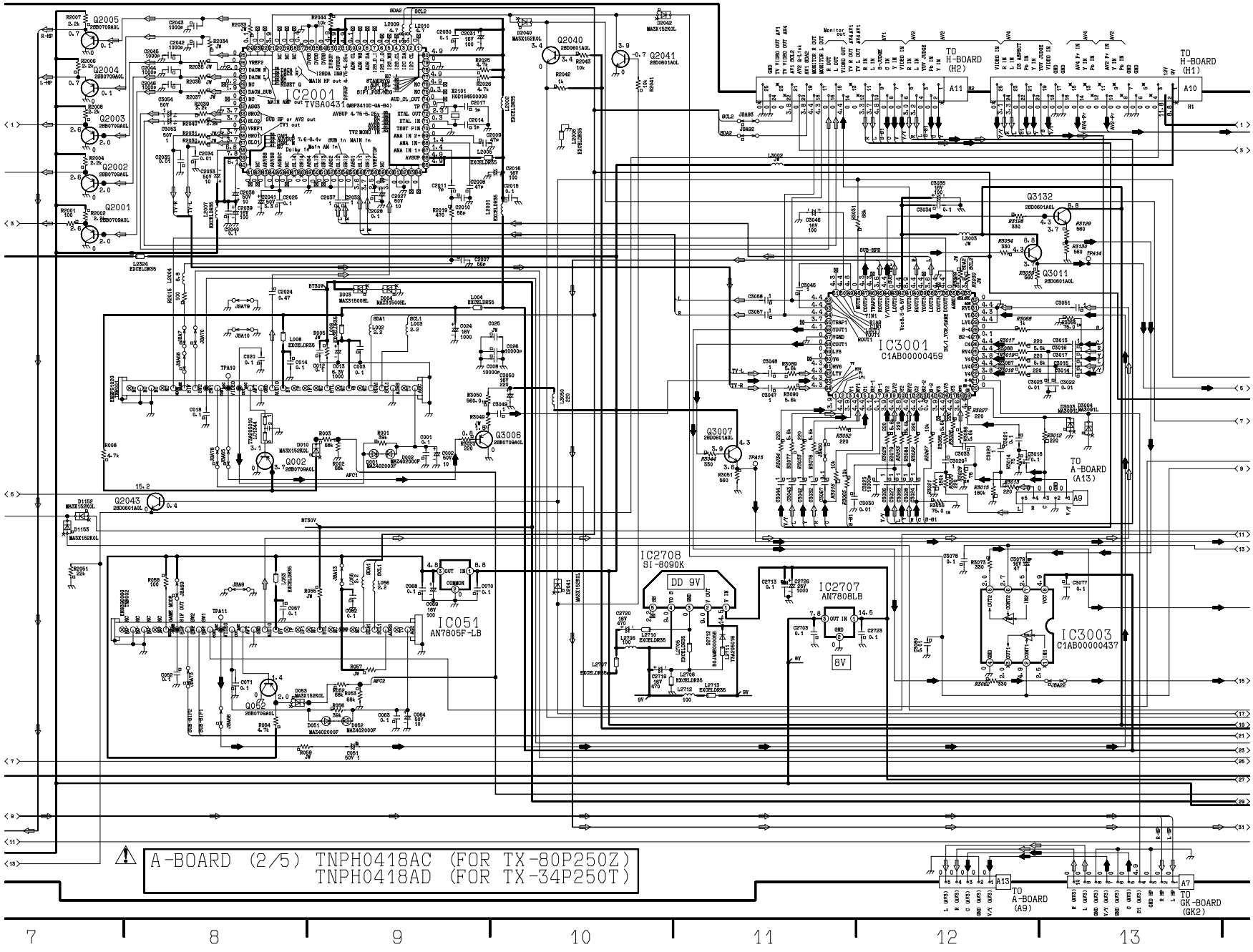
Remarks:

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 follwing 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)

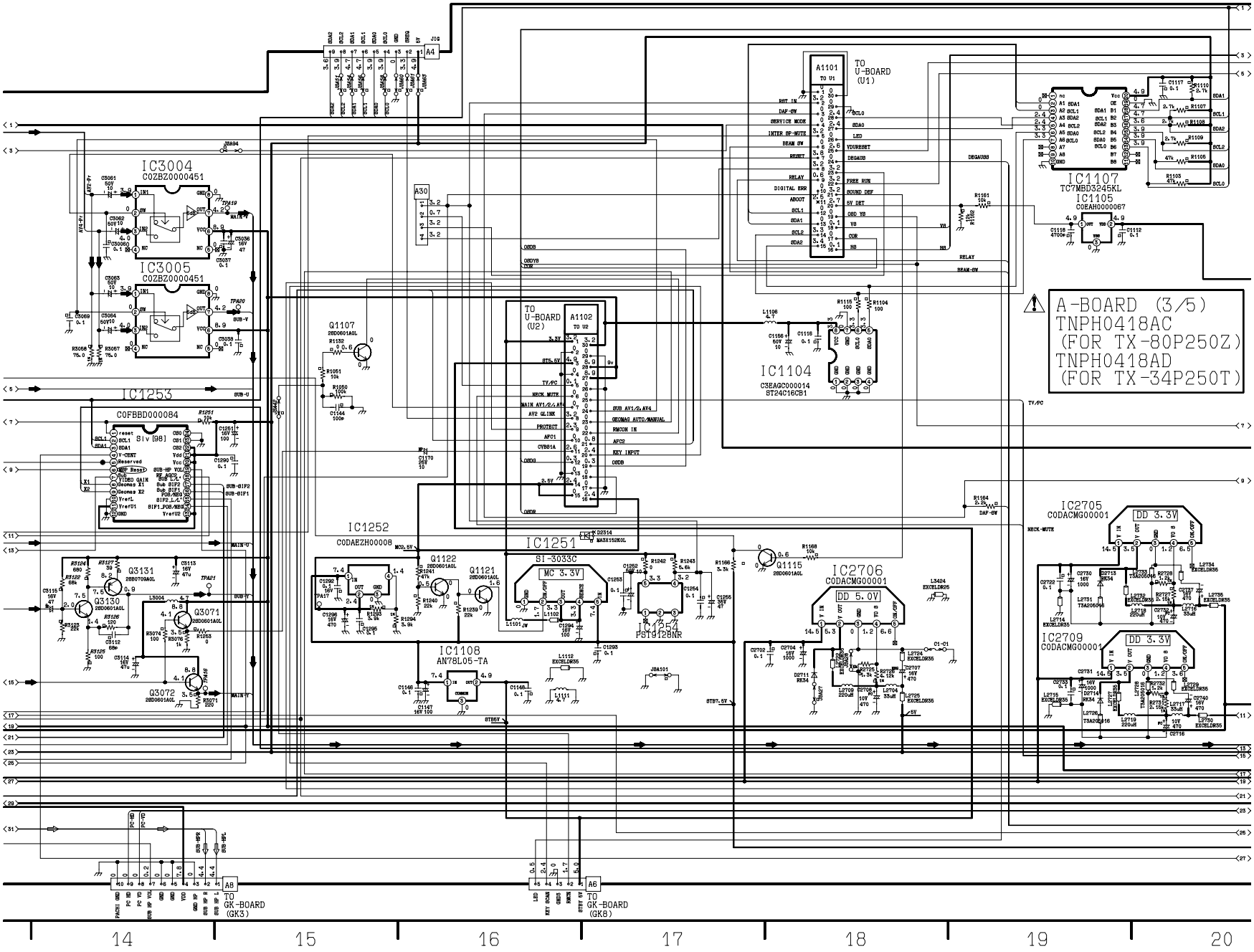
10.2. A-Board (1/5) Schematic Diagrams



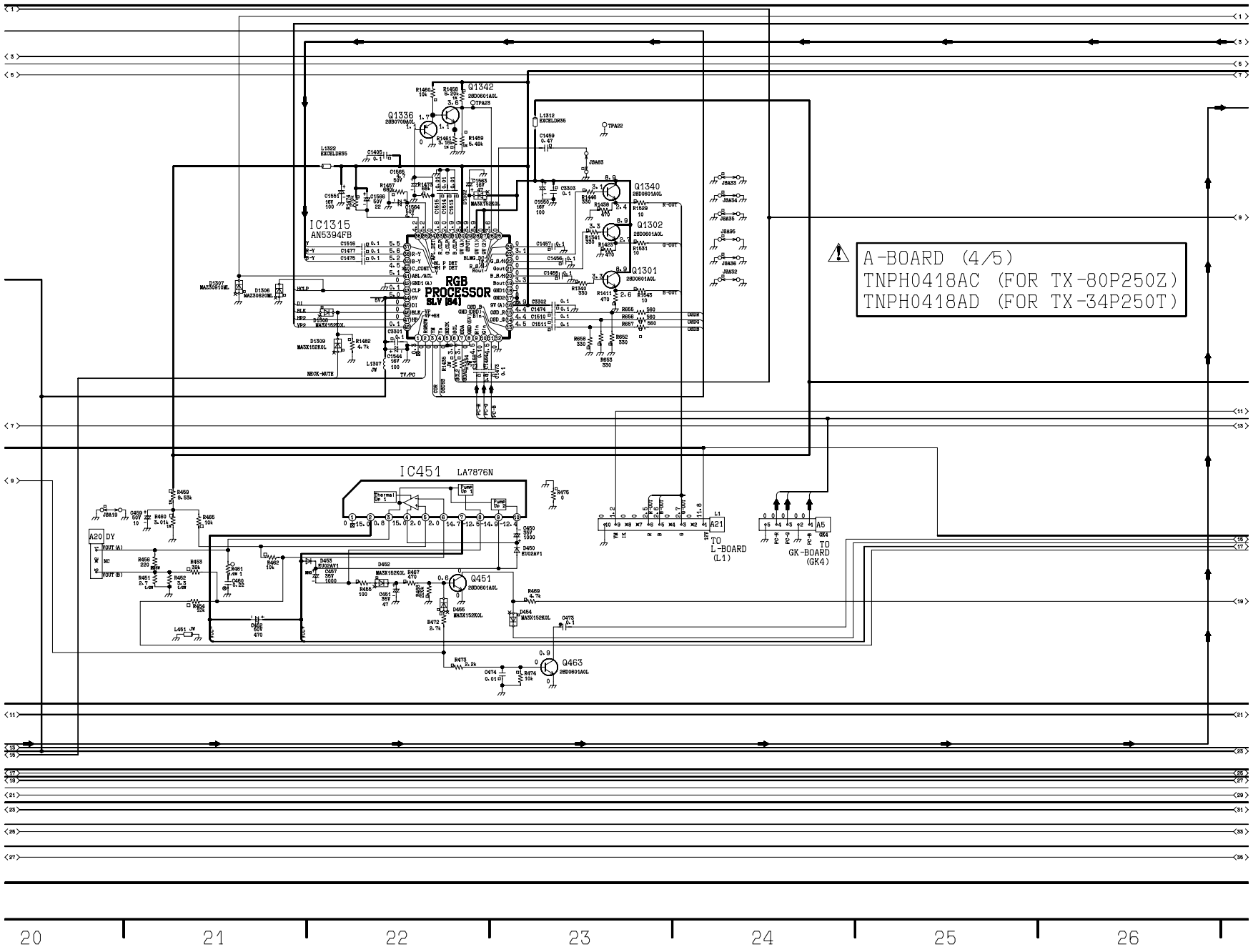
10.3. A-Board (2/5) Schematic Diagrams



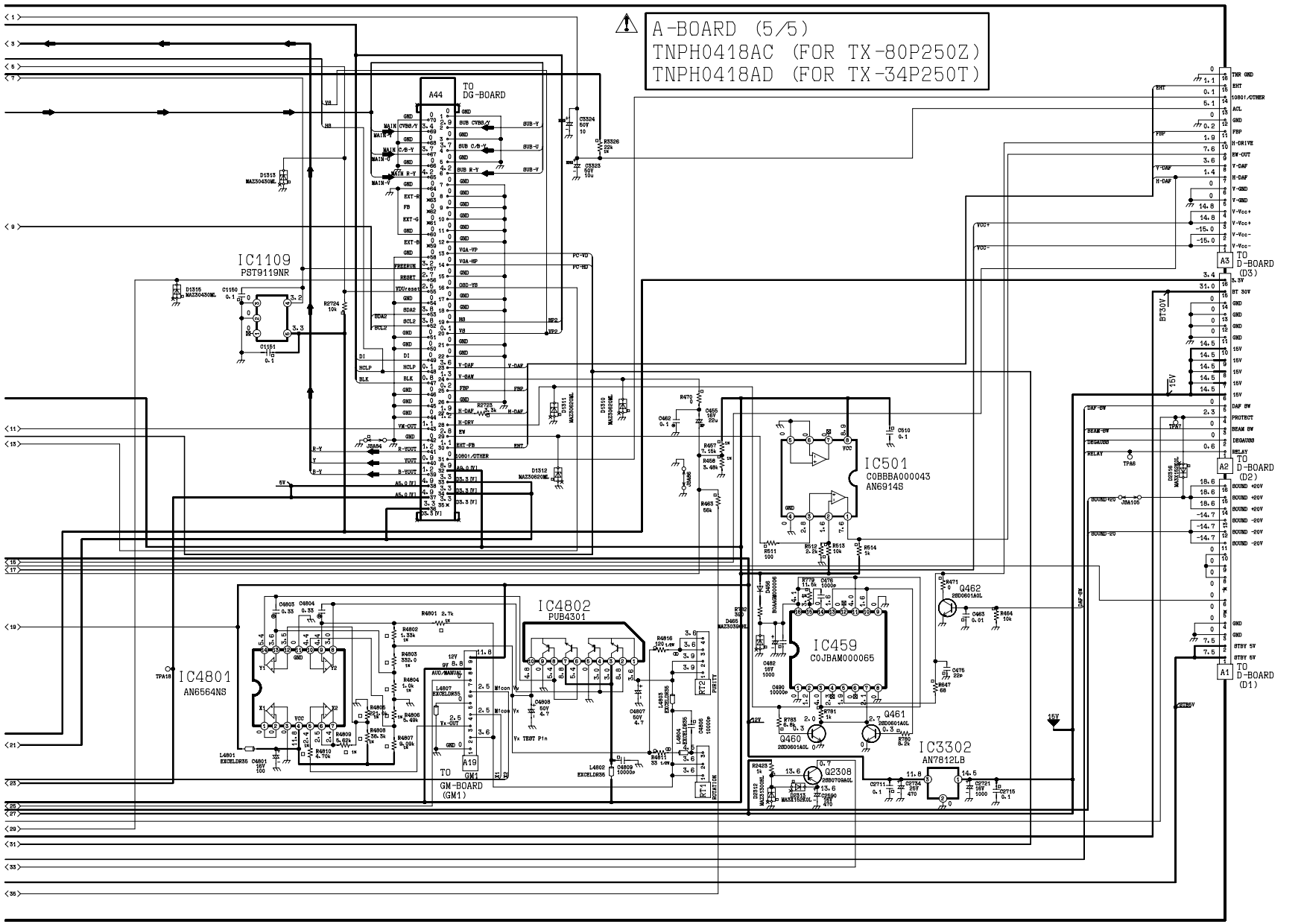
10.4. A-Board (3/5) Schematic Diagrams



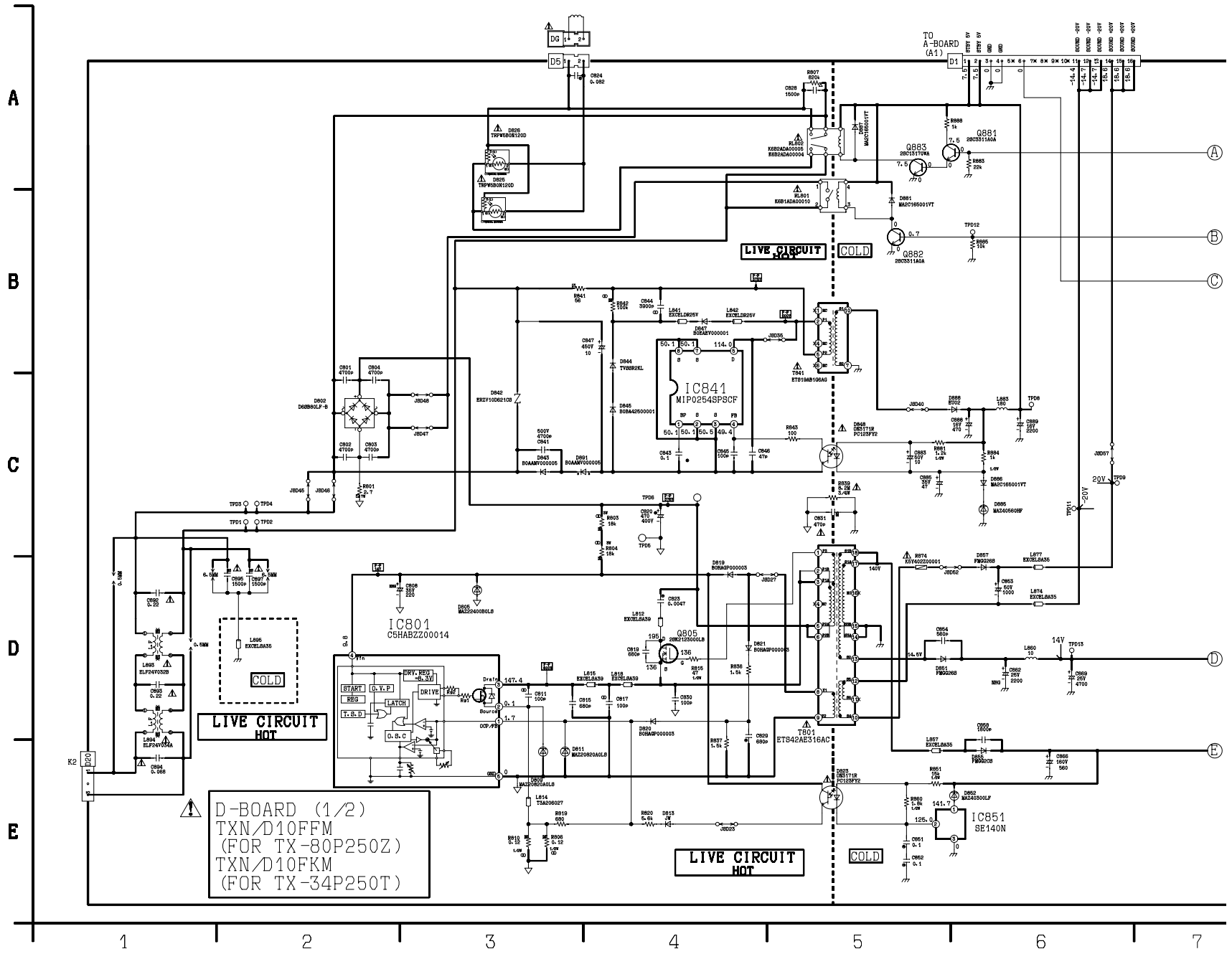
10.5. A-Board (4/5) Schematic Diagrams



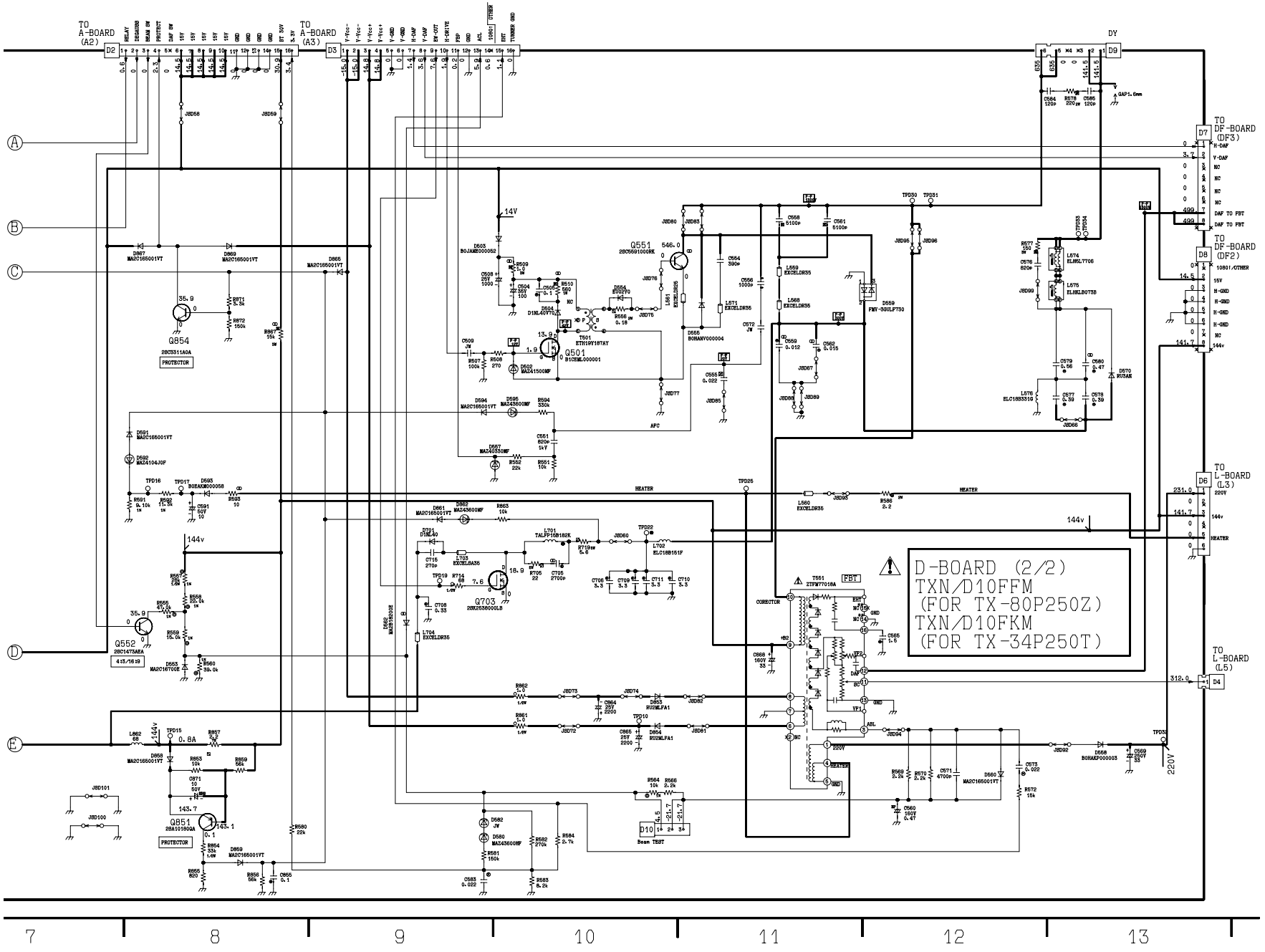
10.6. A-Board (5/5) Schematic Diagrams



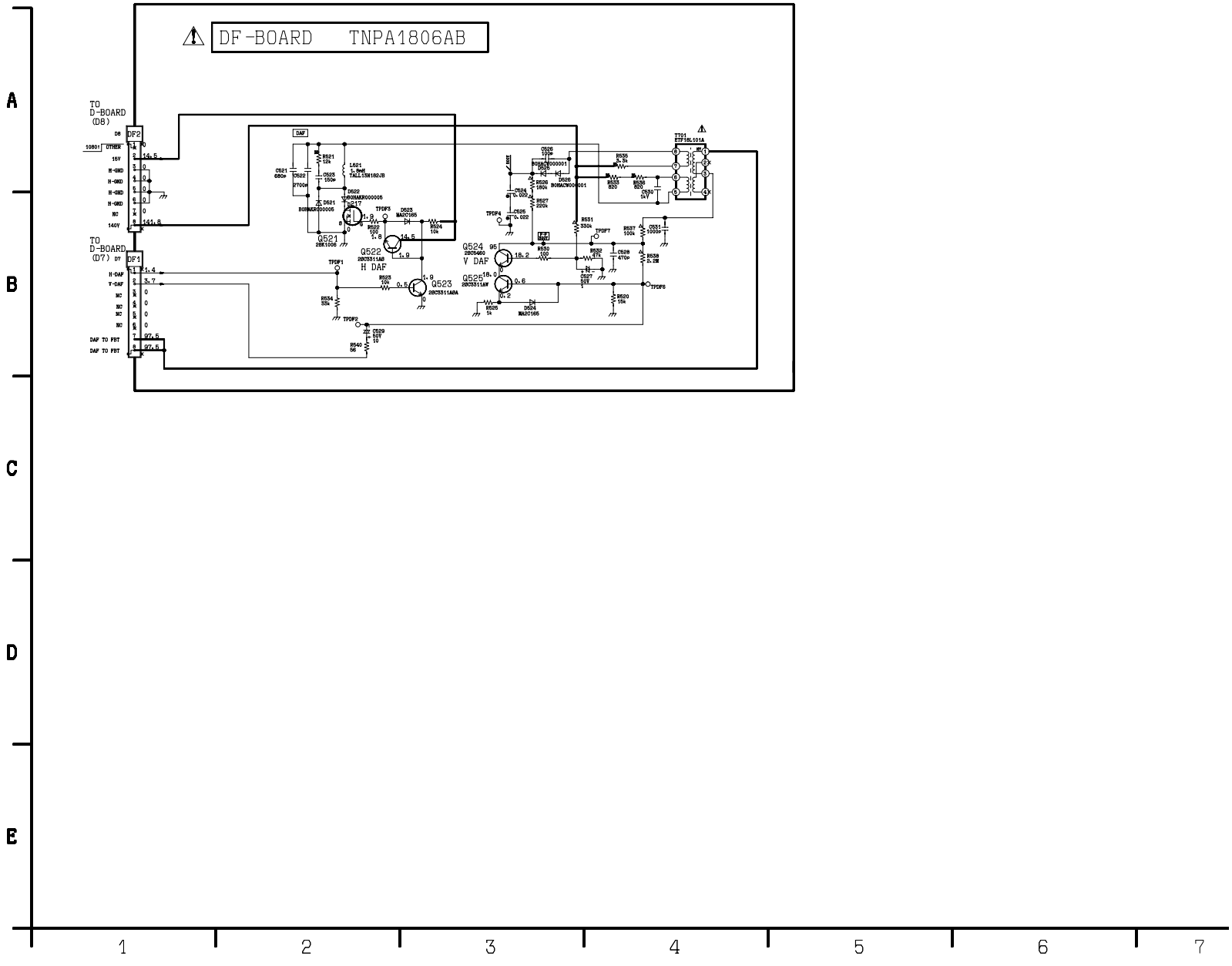
10.7. D-Board (1/2) Schematic Diagrams



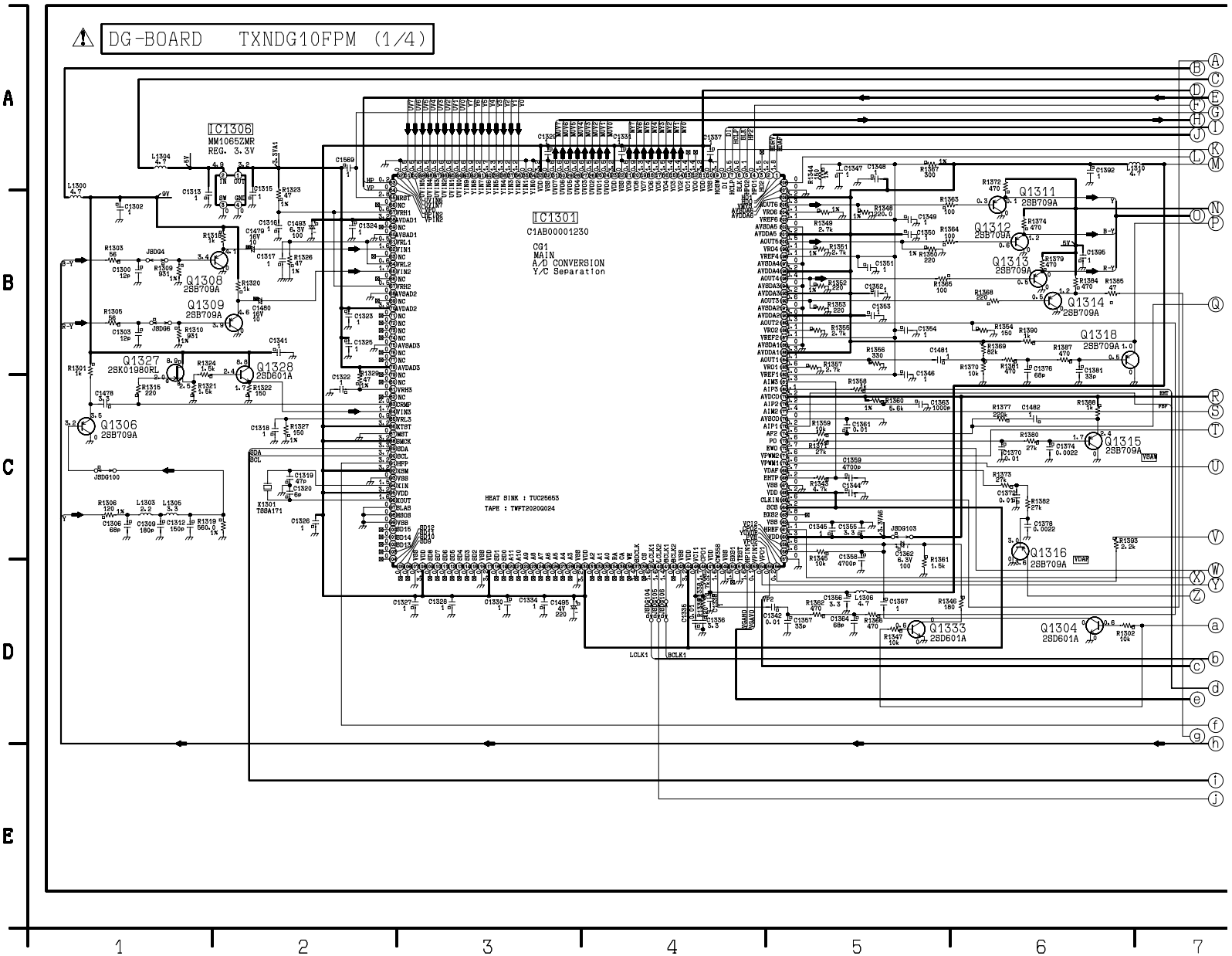
10.8. D-Board (2/2) Schematic Diagrams



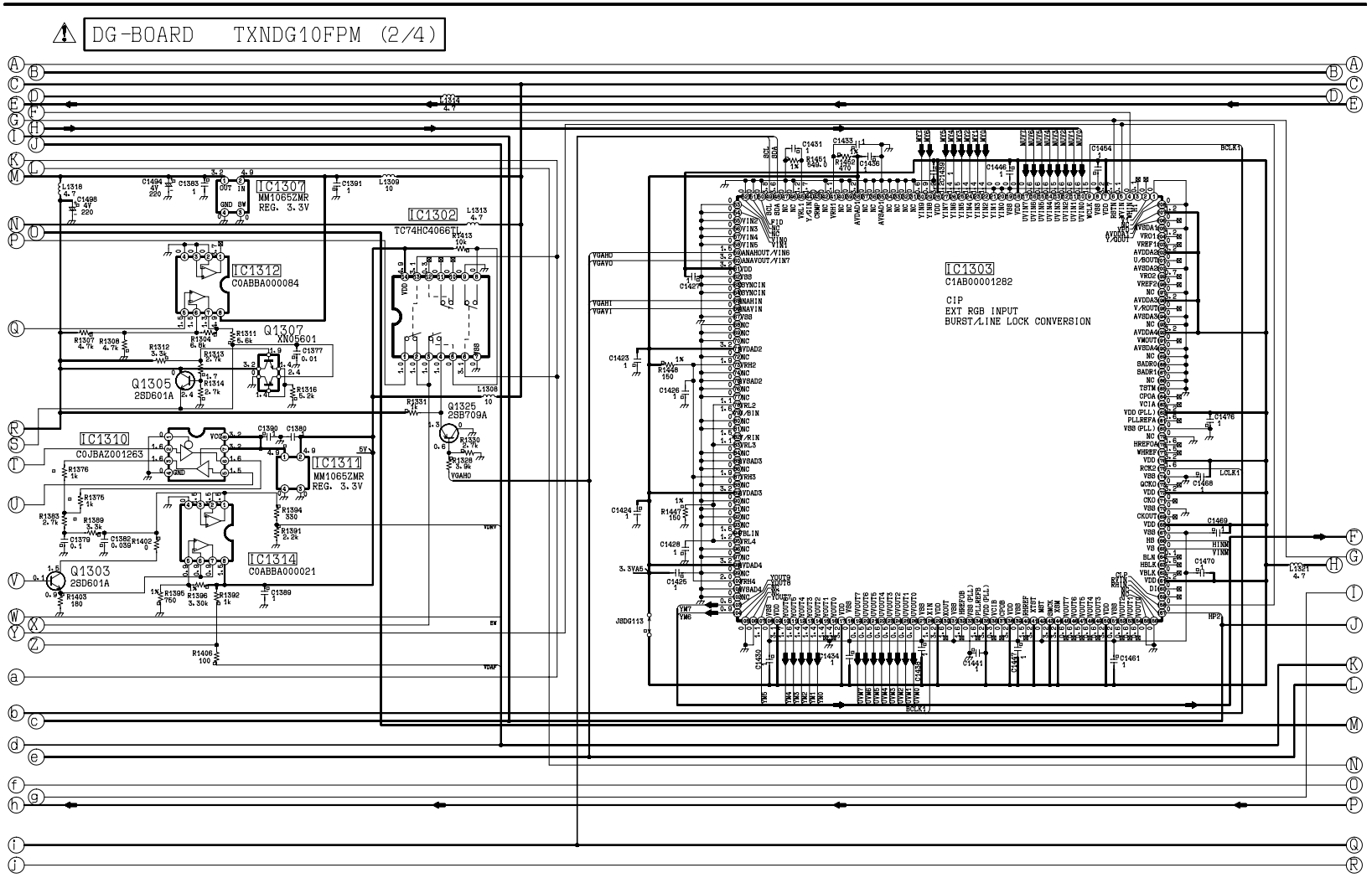
10.9. DF-Board Schematic Diagrams



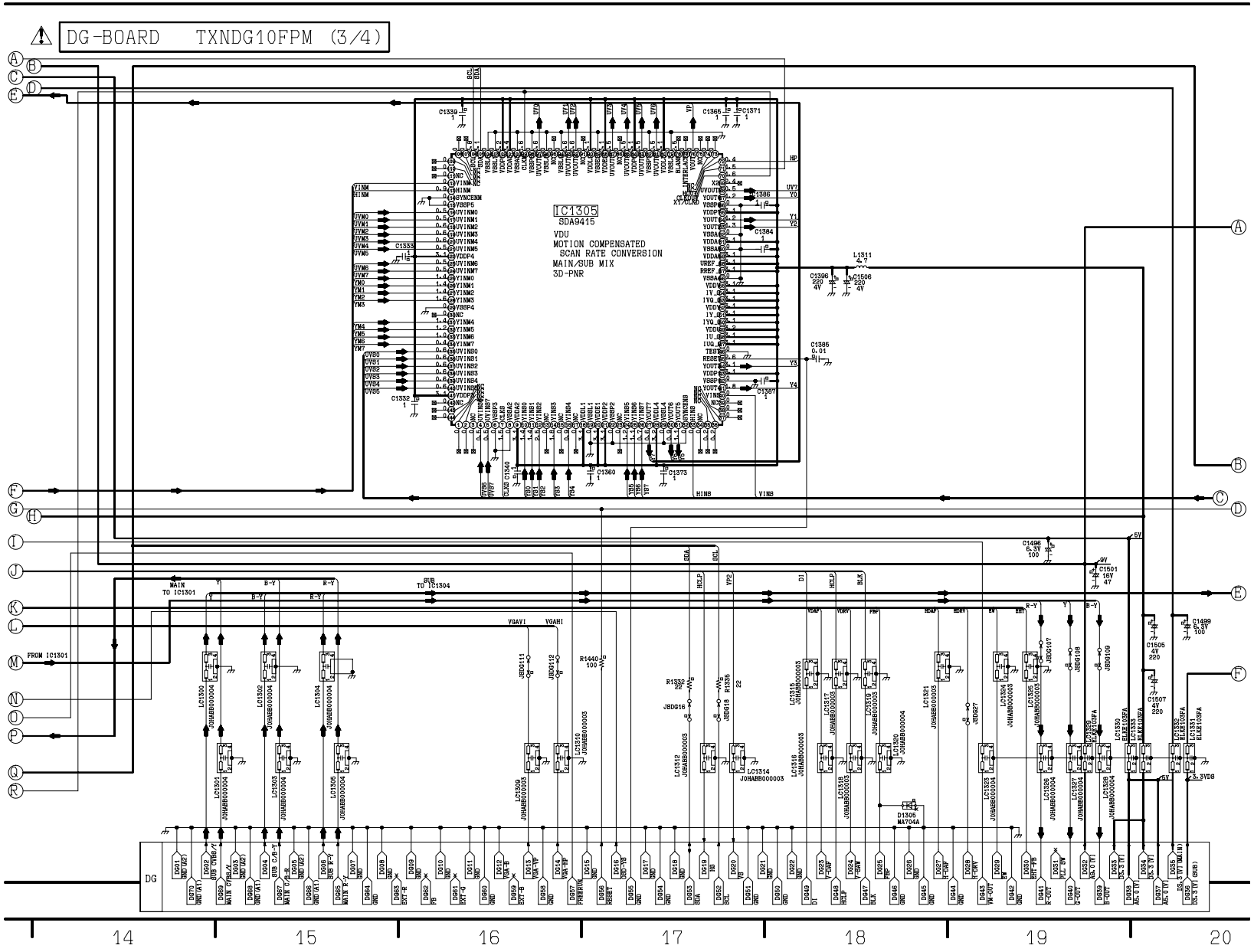
10.10. DG-Board (1/4) Schematic Diagrams



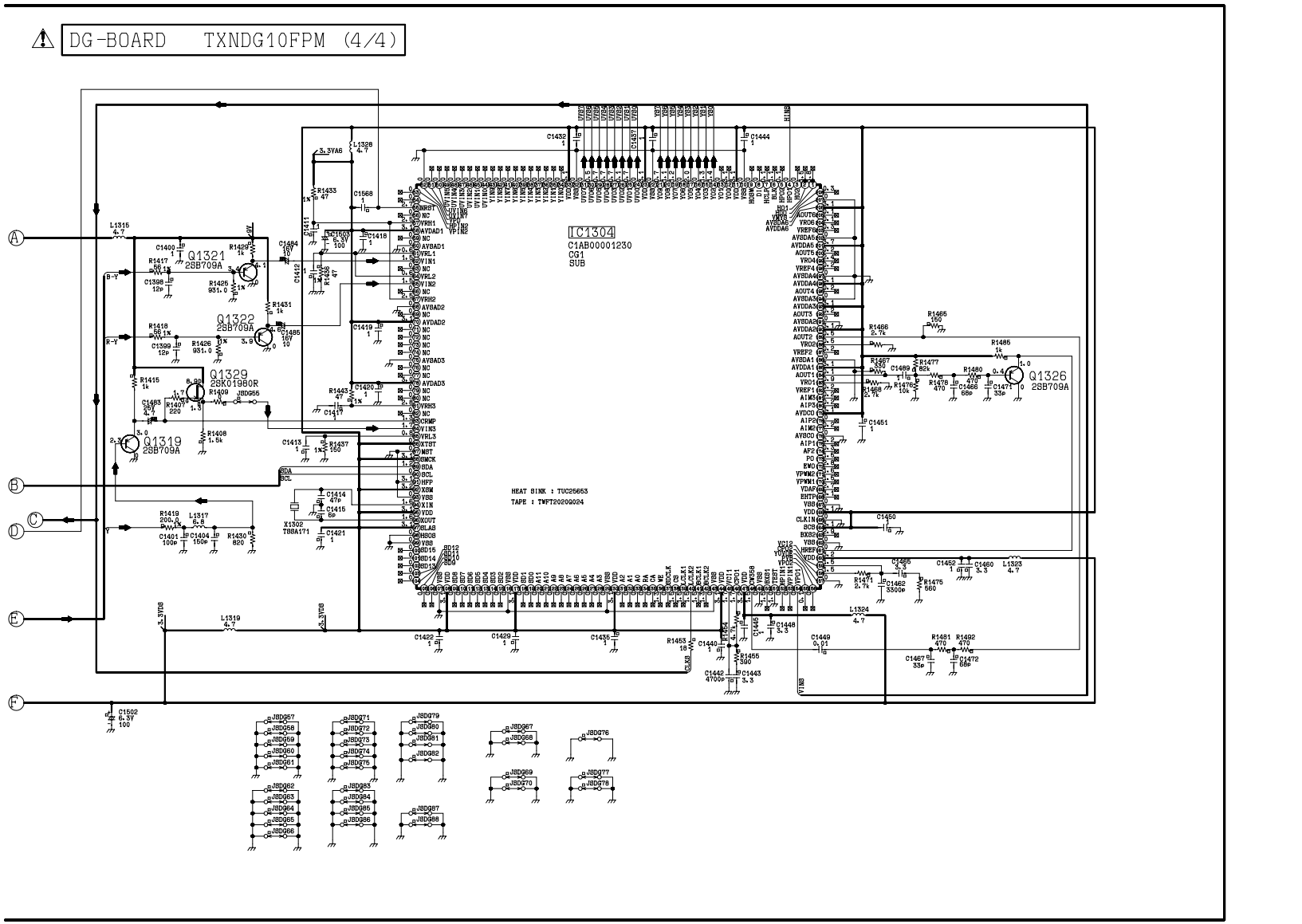
10.11. DG-Board (2/4) Schematic Diagrams



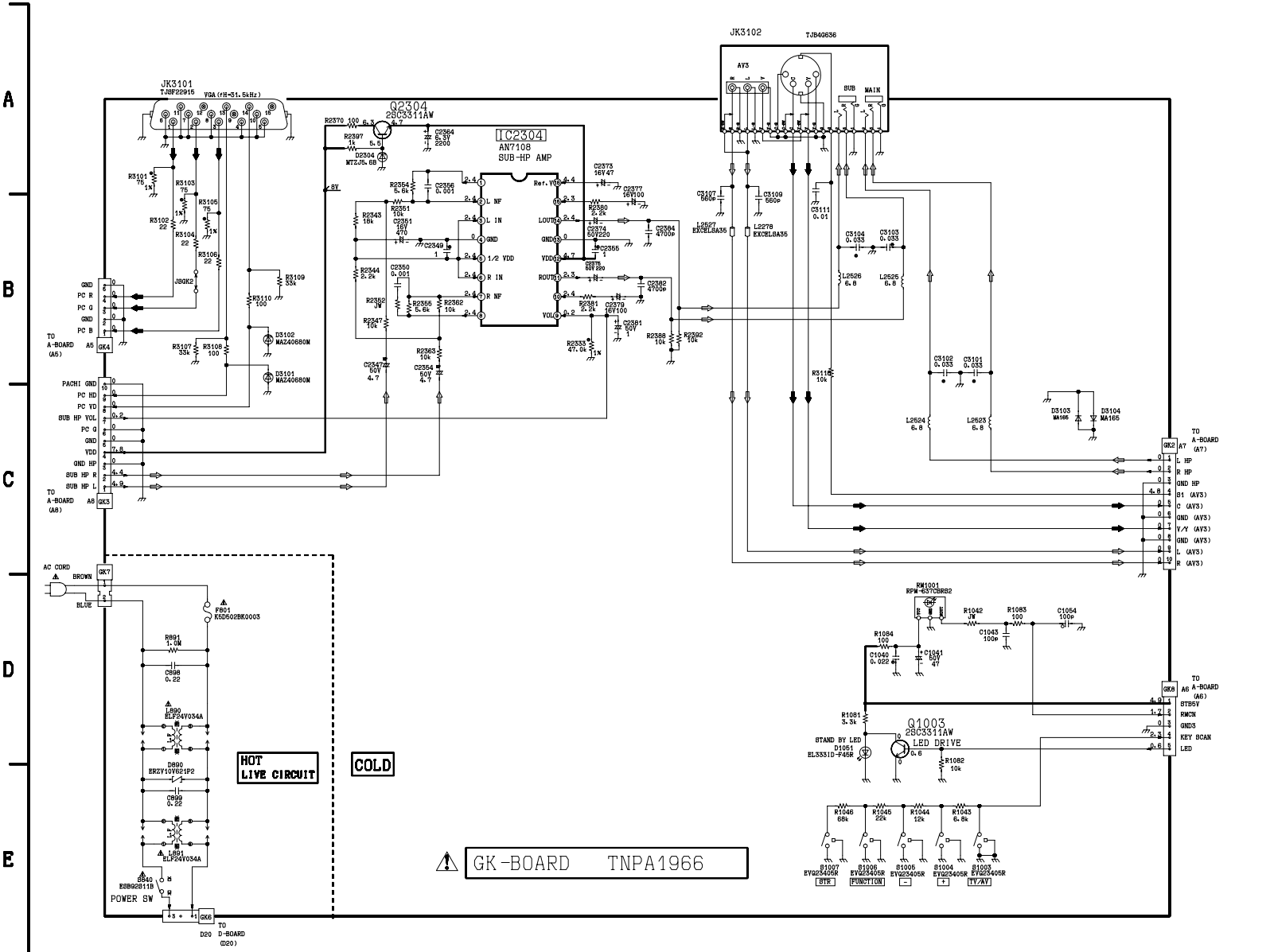
10.12. DG-Board (3/4) Schematic Diagrams



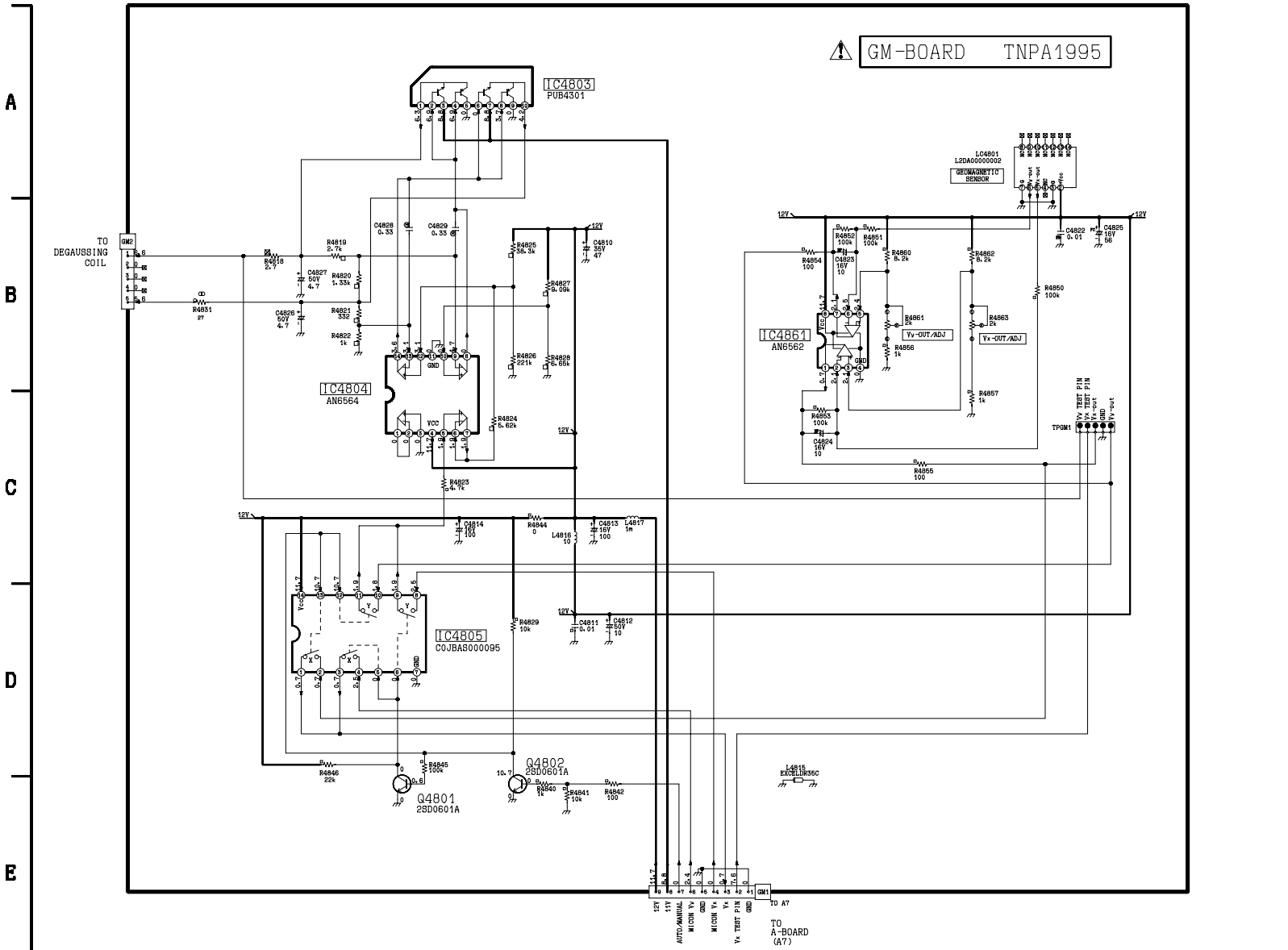
10.13. DG-Board (4/4) Schematic Diagrams



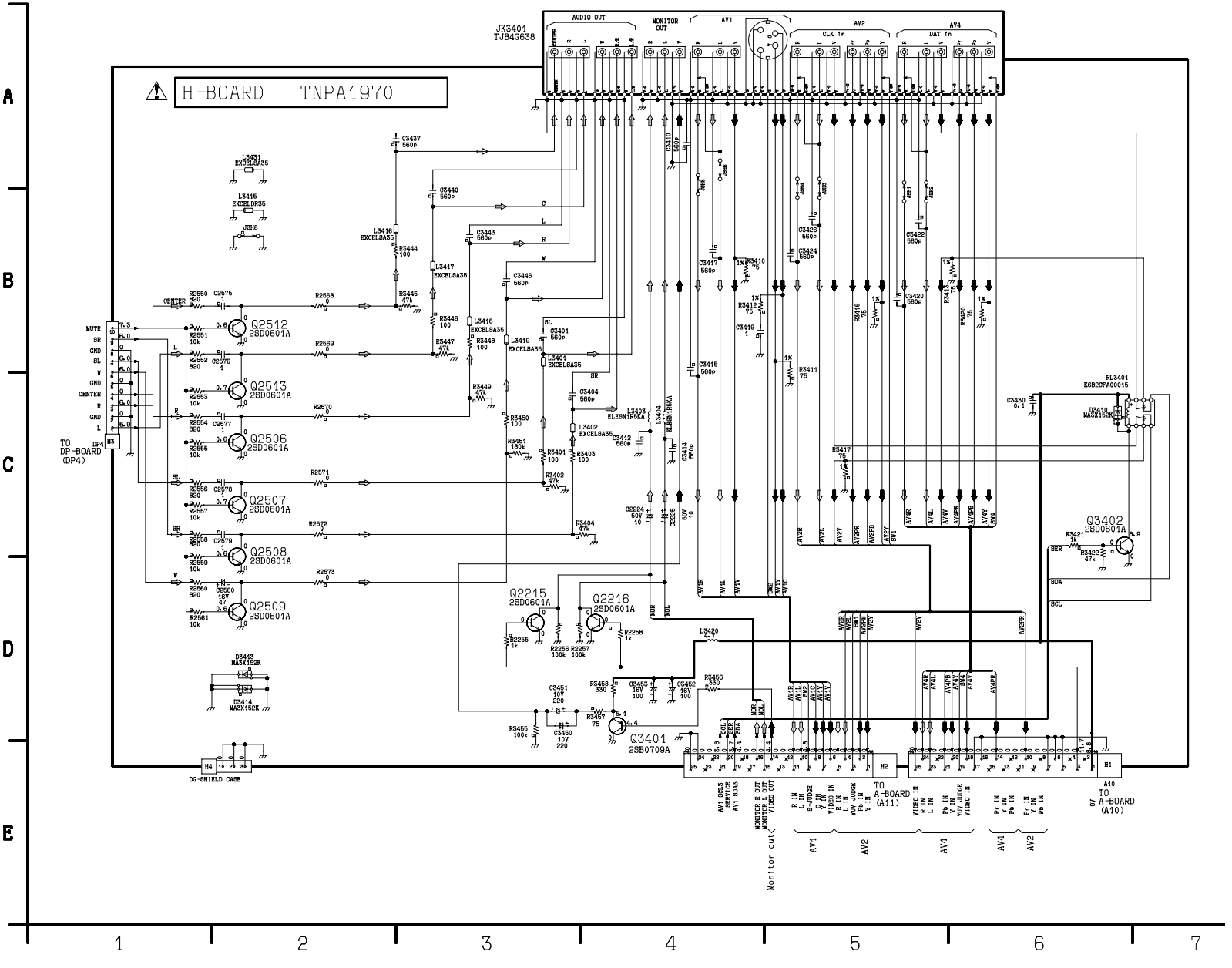
10.14. GK-Board Schematic Diagrams



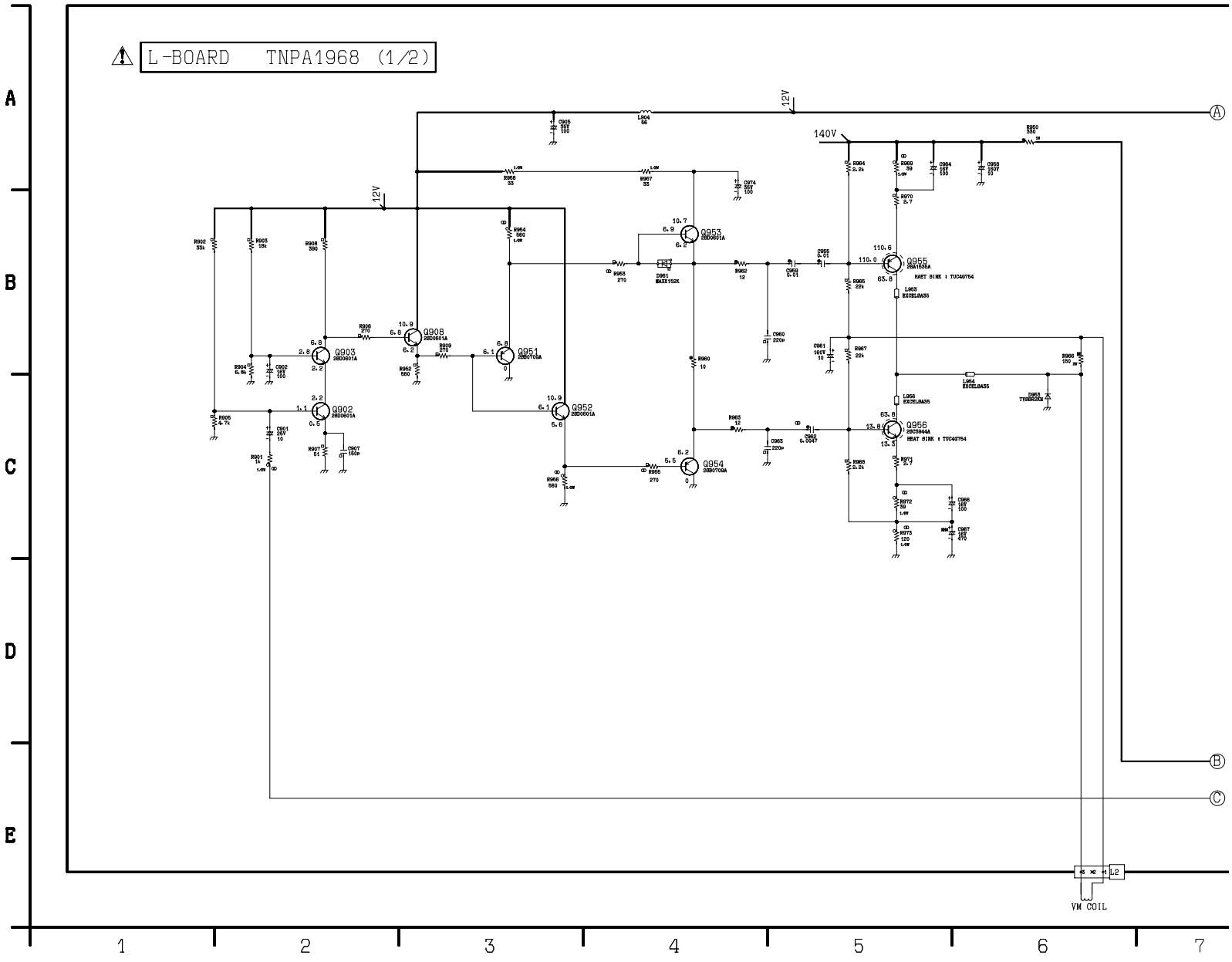
10.15. GM-Board Schematic Diagrams



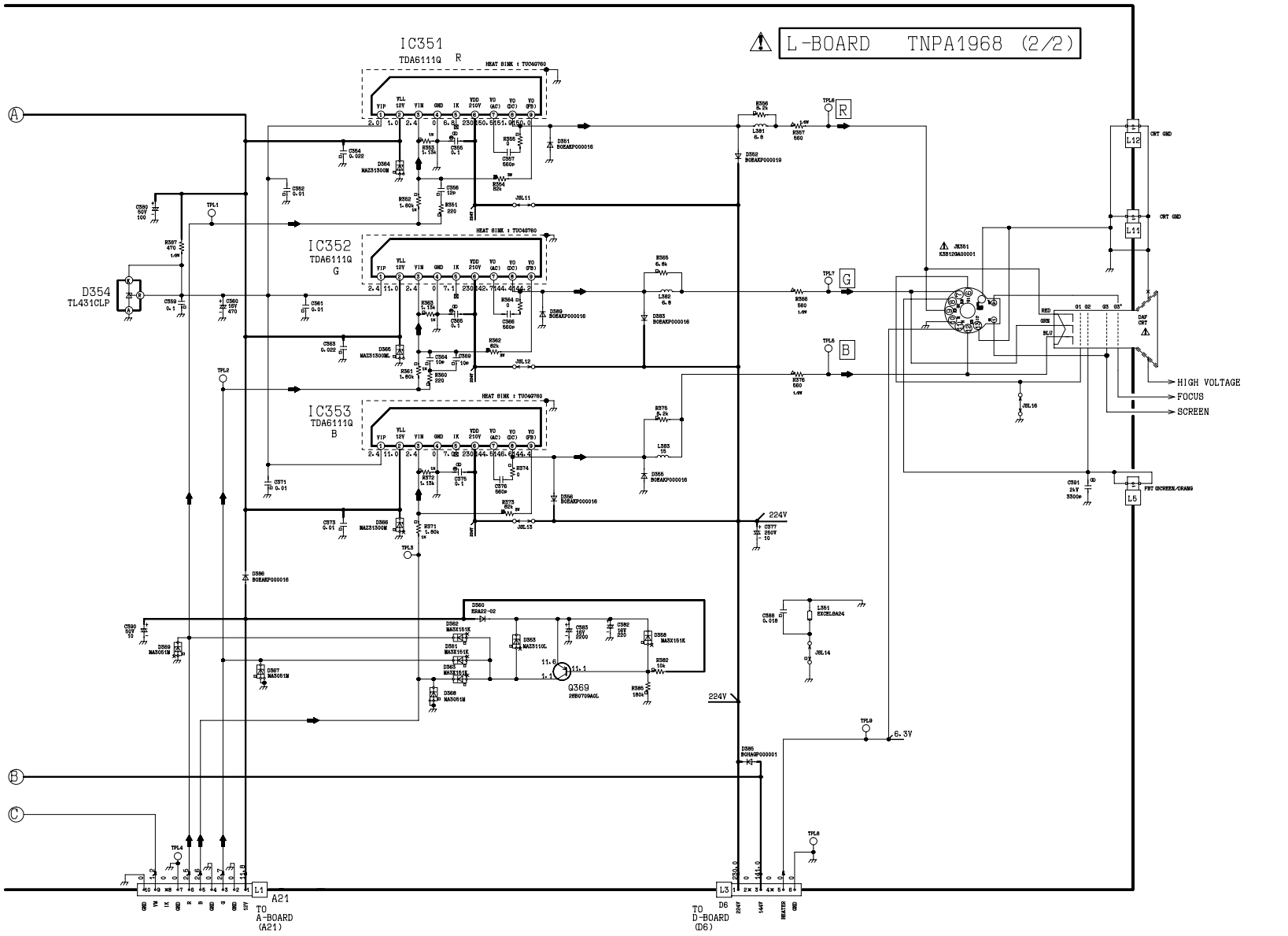
10.16. H-Board Schematic Diagrams



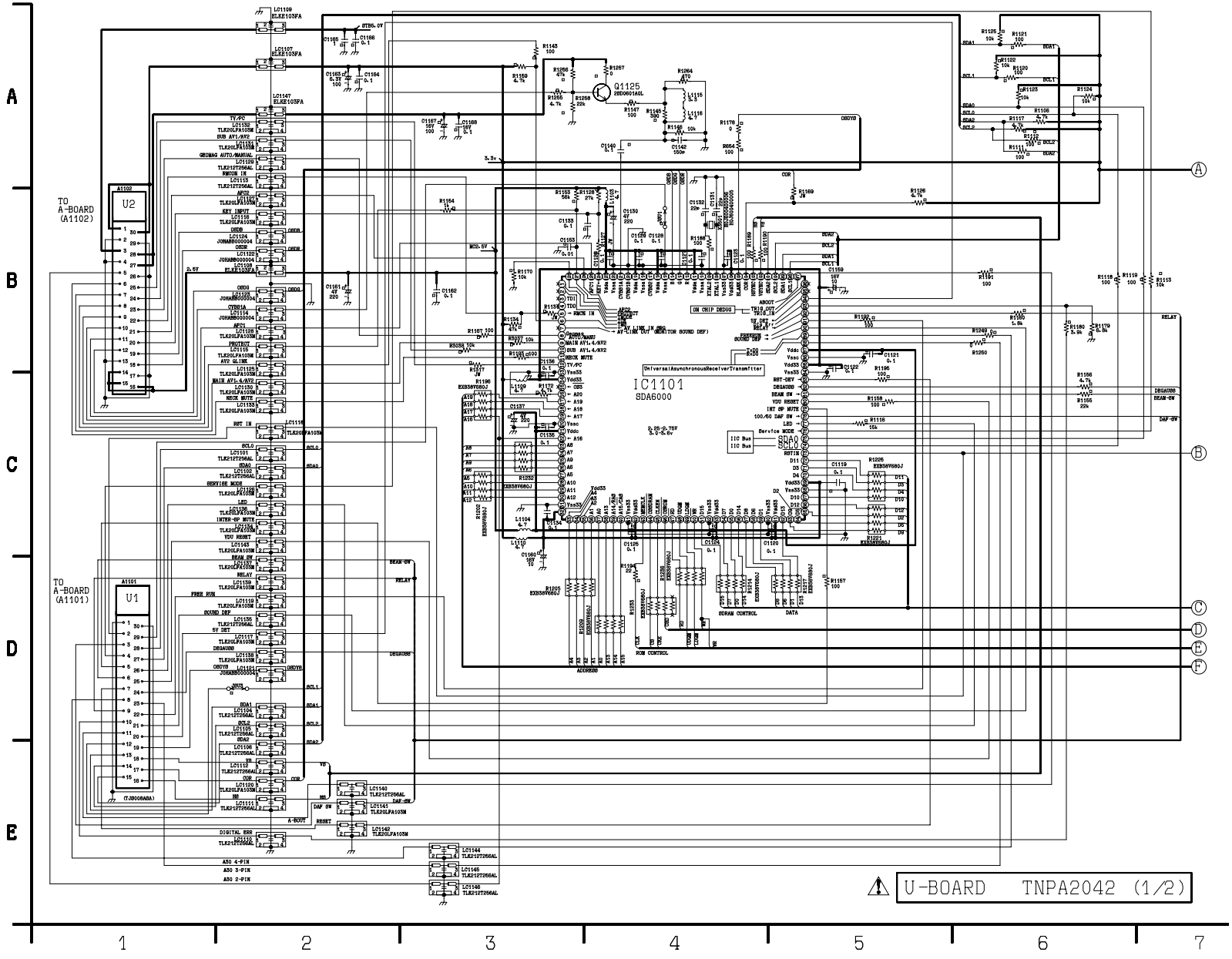
10.17. L-Board (1/2) Schematic Diagrams



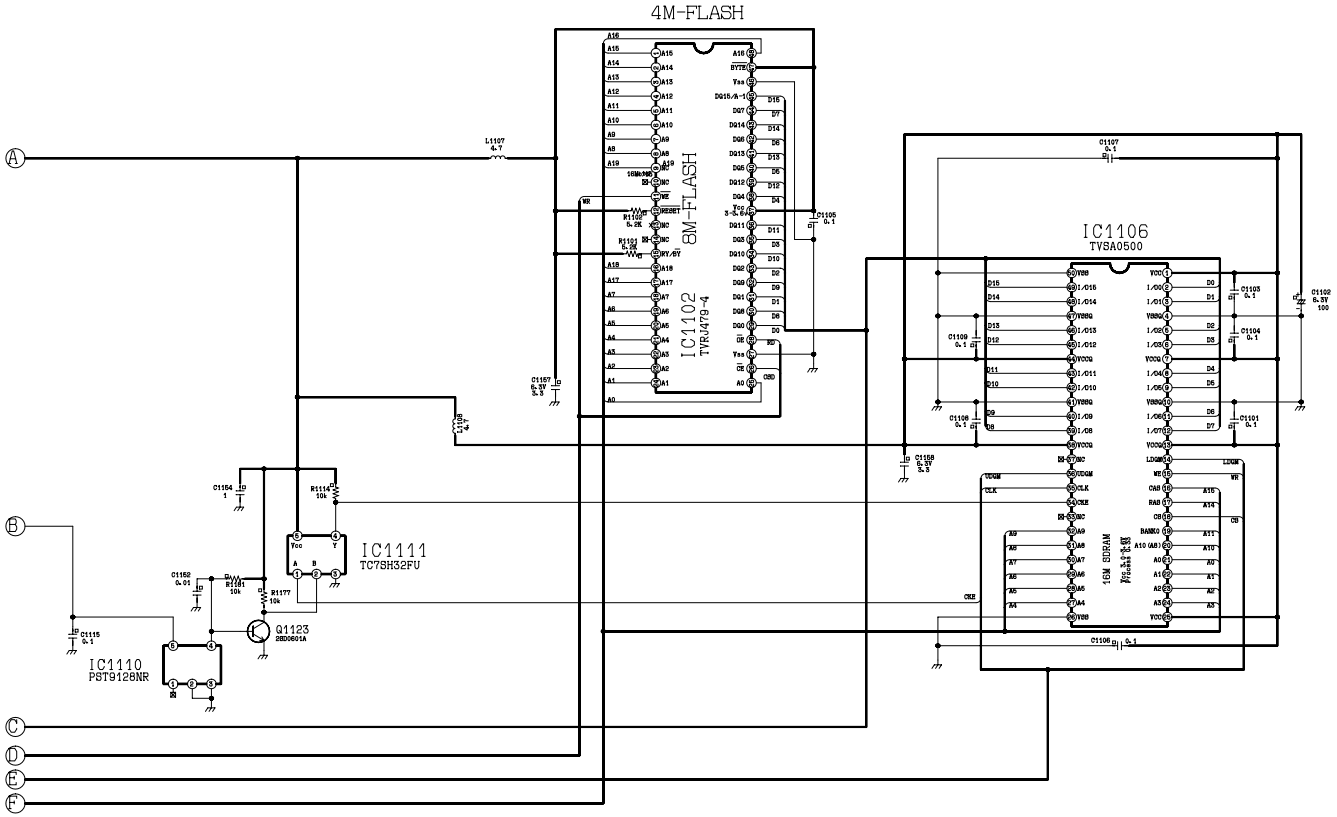
10.18. L-Board (2/2) Schematic Diagrams



10.19. U-Board (1/2) Schematic Diagrams



10.20. U-Board (2/2) Schematic Diagrams



U-BOARD TNPA2042 (2/2)

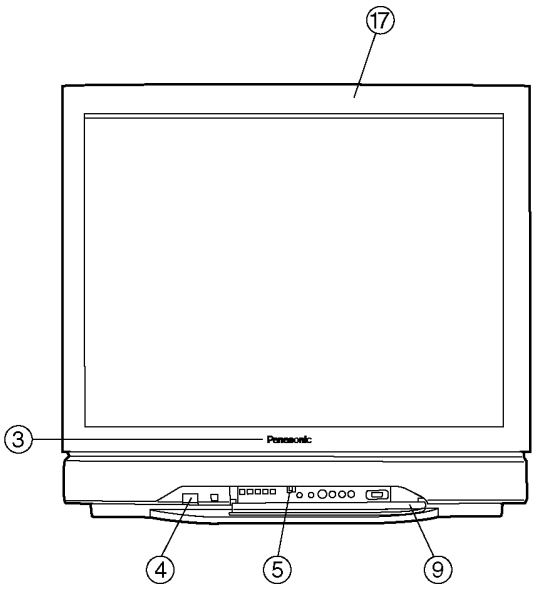
7 8 9 10 11 12 13

11 Parts Location

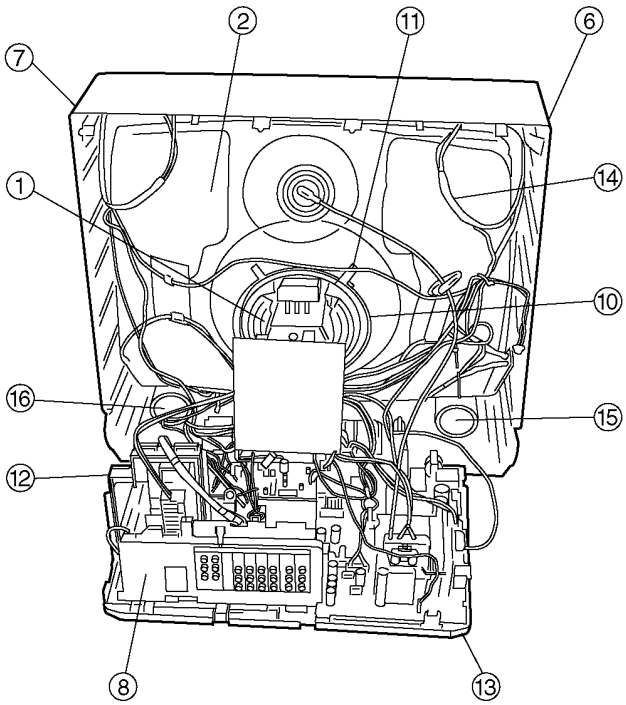
Note:

The number on mechanical parts indicates Ref. No. Mechanical Replacement Parts List

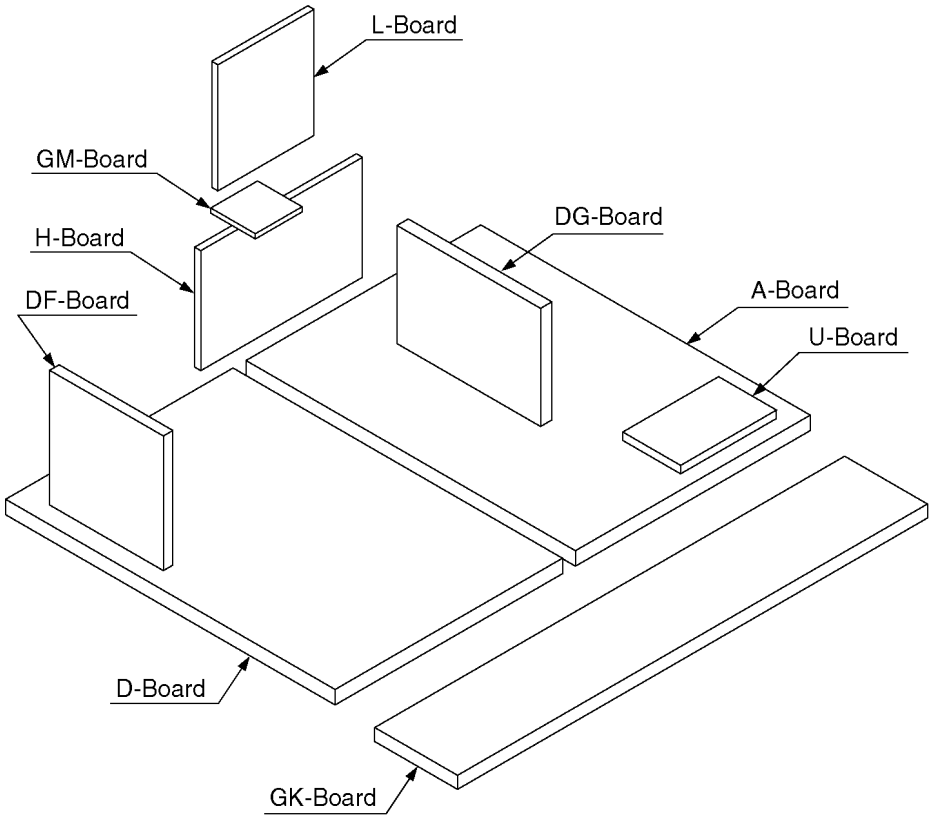
●Front View



●Rear View



●Chassis Board Layout View



12 Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	EABG10P504E2	WOOFER BOX	1	
	EASG7D505A2	TWEETER	2	
	EUR511226	REMOCON TRANSMITTER	1	
1	KDY43HC51F	DEFLECTION YOKE	1	⚠
	KRCBC160928B	CLAMPER	1	
2	M80LSW195X	PICTURE TUBE	1	TX-34P250T ⚠
2	M80LSW197X	PICTURE TUBE	1	TX-80P250Z ⚠
	TBL4G3401	RUBBER SET LEG	2	
	TBLG3019	CUSHION RUBBER (FRONT)	2	
	TBM4G0695	MODEL NAME PLATE	1	TX-34P250T ⚠
	TBM4G0698	MODEL NAME PLATE	1	TX-80P250Z ⚠
3	TBMA059	PANASONIC BADGE	1	
4	TBX4G86800	POWER BUTTON	1	
5	TEK6940	DOOR SWITCH	1	
	TES4G204	SPRING	1	
	TES4G404	SPRING	1	
	TES4G407	SPRING	2	
	TES6583	SPRING FOR TR	2	
	TESD020	COIL SPRING	1	
	THT1062	SCREW	4	
	THT4G1014R	SCREW	4	
	THTA006Z	SCREW	9	
	TJB1726400	ADAPTOR (75 OHM)	1	
	TKK4G8542	BOTTOM HANDLE(LEFT&RIGHT)	2	
6	TKK4G8551-1	HANDLE(L)	1	
7	TKK4G8552-1	HANDLE(R)	1	
8	TKP4G11962	AV COVER	1	
9	TKP4G11974	DOOR PANEL	1	TX-80P250Z
9	TKP4G11975	DOOR PANEL	1	TX-34P250T
10	TLK4G9041	ROTATION COIL	1	
	TMM16452	CLAMPER	2	
	TMM16473-1	CLAMPER	1	
	TMM16480-1	CLAMPER	1	
	TMM17499	CLAMPER	1	
	TMM4G411	CLAMPER	4	
	TMM4G901	CLAMPER	1	
	TMM6496-1	CLAMPER	5	
	TMM7468-1	CLAMPER	1	
	TMM7473-1	CLAMPER	2	
	TMME015	CLAMPER	2	
11	TMMJ055	DY WEDGE	4	
	TMW4G711	BRACKET	1	
12	TMW4G713	BRACKET	1	
	TMW4G714	BRACKET	1	
13	TMX4G417	CHASSIS FRAME	1	
	TMX4G418	CONTROL BRACKET	1	
	TPC4G45104	PACKING CASE	1	
	TPD4G1062	TOP CUSHION	1	
	TPD4G2059	BOTTOM CUSHION	1	
	TPD4G9010	CUSHION	1	
	TPE114108-1	SET COVER	1	
	TPE114125	PROTECT COVER	1	
	TQB4G0909	OPERATING MANUAL(ENGLISH)	1	TX-80P250Z ⚠
	TQB4G0911	INSTRUCTION BOOK(RUSSIAN)	1	TX-34P250T ⚠
	TSM10032-3	MAGNET	1	
	TSN63115-4	MAGNET	4	
14	TSPA139	DEGAUSSING COIL	1	
	TSX4G140K	AC POWER CORD	1	TX-34P250T ⚠
	TSX4G141K	AC POWER CORD	1	TX-80P250Z ⚠
	TXAJS01EFG	TUNER TO TUNER WIRE ASS´Y	1	
15	TXFAS01FPM	SPEAKER ASS´Y (L)	1	
16	TXFAS11FPM	SPEAKER ASS´Y (R)	1	
	TXFKU01FFM	BACKCOVER BODY ASS´Y	1	
17	TXFKY01FFM	CABINET ASS´Y	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TXNDG10FPM	CIRCUIT BOARD DG	1	
	TZSC07024	EXTENSION CABLE BOARD	1	
	XTB4+12A	SCREW	1	
	XTB4+15A	SCREW	4	
	XTV3+12A	SCREW	4	
	XTV3+12AFZ	SCREW	8	
	XTV3+6J	SCREW	1	
	XTW3+10T	SCREW	1	
	XTW3+12T	SCREW	2	
	XYN3+C10	SCREW	1	
	XYN3+E8	SCREW	2	
	XYN3+F6	SCREW	1	
	XYN3+J8	SCREW	1	
	XZBT6506	POLY BAG	1	

13 Replacement Parts List

13.1. 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: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

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

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

13.2. Electrical Replacement Part List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TXNDG10FPM	CIRCUIT BOARD DG	1	⚠
RTL	TNPA1806AB	CIRCUIT BOARD DF	1	⚠
RTL	TNPA1966	CIRCUIT BOARD GK	1	⚠
RTL	TNPA1968	CIRCUIT BOARD L	1	⚠
RTL	TNPA1970AB	CIRCUIT BOARD H	1	⚠
RTL	TNPA1995	CIRCUIT BOARD GM	1	⚠
RTL	TNPA2042	CIRCUIT BOARD U	1	⚠
RTL	TXN/D10FFM	CIRCUIT BOARD D	1	TX-80P250Z ⚠
RTL	TXN/D10FKM	CIRCUIT BOARD D	1	TX-34P250T ⚠
RTL	TNPH0418AC	CIRCUIT BOARD A	1	TX-80P250Z ⚠
RTL	TNPH0418AD	CIRCUIT BOARD A	1	TX-34P250T ⚠
A1-A3	TJSF20216	16P CONNECTOR	3	K1KA16Z00001
A4	TJS1A8150	9P CONNECTOR	1	K1KA09B00019
A5,A6	TJS3A9660	5P CONNECTOR	2	K1KA05A00138
A7,A8	TJS5A9190	10P CONNECTOR	2	K1KB10A00091
A9	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
A10,11	TJSF17325	25P CONNECTOR	2	K1KB25B00006
A13	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
A19	TJS3A9890	9P CONNECTOR	1	K1KA09A00074
A20	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A21	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
A30	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A41	TJS118590	2P CONNECTOR	1	K1KA02A00188
A44	TJSF57570	70P CONNECTOR	1	
A45	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A46	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
A47	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A1101,02	K1KA30A00128	30P CONNECTOR	2	
C001	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C002	ECA1HM100	E 10UF, 50V	1	
C003	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C008	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C012	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C013	ECA0JM102	E 1000UF, 6.3V	1	ECA0JM102B
C014	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C018	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C020	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C024	ECA1CM102	E 1000UF, 16V		
C025	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
C026	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C051	ECEA1HN010U	E 1UF, 50V	1	
C052	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C057	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C062,63	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C064	ECA1HM100	E 10UF, 50V	1	
C068	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C069	ECA1CM101	E 100UF, 16V	1	
C070	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C071	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C352	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C354	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C355	ECQE2104KF	P 0.1UF, K,250V	1	
C356	ECJ2XC1H120J	C 12PF, J, 50V	1	
C357	ECKD2H561KB2	C 560PF, K,500V	1	
C359	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C360	ECA1CM471	E 470UF, 16V	1	
C361	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C363	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C364	ECJ2XC1H100D	C 10PF, D, 50V	1	
C365	ECQE2104KF	P 0.1UF, K,250V	1	
C366	ECKD2H561KB2	C 560PF, K,500V	1	
C367	ECJ2XC1H100D	C 10PF, D, 50V	1	
C371	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C373	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C375	ECQE2104KF	P 0.1UF, K,250V	1	
C376	ECKD2H561KB2	C 560PF, K,500V	1	
C377	ECA2EM100	E 10UF, 250V	1	
C380	ECA1HM101	E 100UF, 50V	1	
C382	ECA1CM221	E 220UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C383	ECA1CM222	E 2200UF, 16V	1	ECA1CM222B
C388	ECJ2XB1H183K	C 0.018UF, K, 50V	1	
C390	ECA1HM100	E 10UF, 50V	1	
C391	ECKD3D332KBP	C 3300PF, K, 2KV	1	
C450	ECA1VM102	E 1000UF, 35V	1	
C451	ECA1VM470	E 47UF, 35V	1	
C452	ECA1HM471	E 470UF, 50V	1	
C455	ECEA1CN220U	E 22UF, 16V	1	
C457	ECA1VHG102	E 1000UF, 35V	1	
C459	ECA1HM100	E 10UF, 50V	1	
C460	ECQB1224KF	P 0.22UF, 100V	1	
C462	ECQV1H104JM	P 0.1UF, J, 50V	1	
C463	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C473	ECQV1H104JM	P 0.1UF, J, 50V	1	
C474	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C475	ECJ2XC1H220J	C 22UF, J, 50V	1	
C476	ECHS1H102FZ	P 1000PF, F, 50V	1	
C482	ECA1CM102	E 1000UF, 16V	1	
C490	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C504	ECA1VM101	E 100UF, 35V	1	
C505	ECQV1H104JM	P 0.1UF, J, 50V	1	
C508	ECA1EM102	E 1000UF, 25V	1	
C510	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C521	ECKD3A681KBP	C 680PF, K, 1KV	1	
C522	ECKD3A272KBP	C 2700PF, K, 1KV	1	
C523	ECKD3A151KBP	C 150PF, K, 1KV	1	
C524	ECQM6223JZ	P 0.022UF, J,600V	1	
C525	ECQM4223JZ	P 0.022UF, J,400V	1	
C526	ECKD3D101KBP	C 100PF, K, 2KV	1	
C527	ECA1HM010	E 1UF, 50V	1	
C528	ECKD3D471KBP	C 470PF, K, 2KV	1	
C529	ECA1HM100	E 10UF, 50V	1	
C530	ECKD3A122KBP	C 1200PF, K, 1KV	1	
C531	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C551	ECKD3A821JBN	C 820PF, J, 1KV	1	
C554	ECKD3D391KBR	C 390PF, K, 2KV	1	
C555	ECQP1223JZ	P 0.022UF, J,100V	1	
C556	ECWH20102JVY	P 1000PF, J, 2KV	1	
C558	ECWH20512JVB	P 5100PF, J, 2KV	1	
C559	ECQF4123JZ	P 0.012UF, J,400V	1	
C560	ECEA2CNR47S	E 0.47UF, 160V	1	
C561	ECWH20512JVB	P 5100PF, J, 2KV	1	
C562	ECQF4153JZ	P 0.015UF, J,400V	1	
C565	ECQE2155JF	P 1.5UF, J,250V	1	
C569	ECA2EM330	E 33UF, 250V	1	
C571	ECKF1H472KB	C 4700PF, K, 50V	1	
C572	ERDS2TC0	C 0 OHM, 1/4W	1	
C573	ECQM4223JZ	P 0.022UF, J,400V	1	
C576	ECKD3A821KBP	C 820PF, K, 1KV	1	
C577,78	ECWF4394JBB	P 0.39UF, J,400V	2	
C579	ECWF4564JBB	P 0.56UF, J,400V	1	
C580	ECWF4474JBB	P 0.47UF, J,400V	1	ECWF4474JBP
C583	ECQB1H223JF	P 0.022UF, J, 50V	1	
C584,85	ECKD3D121KBR	C 120PF, K, 2KV	2	
C591	ECA1HM100	E 10UF, 50V	1	
C705	ECKD3A272KBP	C 2700PF, K, 1KV	1	
C706	ECQE1335KF	P 3.3UF, K,100V	1	
C708	ECQE2334KF	P 0.33UF, K,250V	1	
C709-11	ECQE1335KF	P 3.3UF, K,100V	3	
C715	ECKD3D271KBP	C 270PF, K, 2KV	1	
C801-04	ECKDAE472ZE	C 4700PF, Z,	4	
C808	ECA1VHG221	E 220UF, 35V	1	
C811	ECKD3D101KBP	C 100PF, K, 2KV	1	
C815	ECKD3D681KBP	C 680PF, K, 2KV	1	
C817	ECKD3D101KBP	C 100PF, K, 2KV	1	
C819	ECKD2H681KB2	C 680PF, K,500V	1	
C820	EC0S2GP471DB	E 470UF, 400V	1	
C823	ECQF6472JZ	P 4700PF, J,630V	1	
C824	ECQE6823KF	P 0.082UF, K,630V	1	
C828	ECKD3D152JBP	C 1500PF, J, 2KV	1	
C829	ECQB1H681JF	P 680PF, J, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C830	ECKD3D101KBP	C 100PF, K, 2KV	1	
C831	ECKCNA471MBB	C 470PF, M.	1	⚠
C841	ECKDAE472ZE	C 4700PF, Z,	1	
C843	ECQV1H104JM	P 0.1UF, J, 50V	1	
C844	ECKD3A392KBN	C 3900PF, K, 1KV	1	
C845	ECKF1H101KB	C 100PF, K, 50V	1	
C846	ECCC3D470KGE	C 47PF, K, 2KV	1	
C847	ECA2WM100	E 10UF, 450V	1	
C851,52	ECQB1104JF	P 0.1UF, J,100V	2	
C853	ECA1HM102	E 1000UF, 50V	1	
C854	ECKD2H561KB2	C 560PF, K,500V	1	
C855	ECQV1H104JM	P 0.1UF, J, 50V	1	
C858	ECKD3D182KBP	C 1800PF, K, 2KV	1	
C862	ECA1EHG222	E 2200UF, 25V	1	
C864,65	ECA1EM222	E 2200UF, 25V	2	
C866	ECOS2CA561BB	E 560UF, 160V	1	
C868	ECA160V33U	E 33UF, 160V	1	
C869	ECA1EM472	E 4700UF, 25V	1	
C871	ECA1HHG100	E 10UF, 50V	1	
C883	ECA1HM100	E 10UF, 50V	1	
C885	ECA1VM470	E 47UF, 35V	1	
C888	ECA1CM471	E 470UF, 16V	1	
C889	ECA1CM222	E 2200UF, 16V	1	ECA1CM222B
C892,93	ECQU2A224MN	P 0.22UF, M,250V	2	⚠
C894	ECQU2A683MN	P 0.068UF, M,250V	1	⚠
C895	ECKCNA152MEB	C 1500PF, M,	1	⚠
C897	ECKCNA152MEB	C 1500PF, M,	1	⚠
C898,99	ECQU2A224MN	P 0.22UF, M,250V	2	⚠
C901	EEANA1E100	E 10UF, 25V	1	
C902	ECA1CM101	E 100UF, 16V	1	
C905	ECA1VM101	E 100UF, 35V	1	
C907	ECJ2XC1H151J	C 150PF, J, 50V	1	
C955	ECQB1103JF	P 0.01UF, J,100V	1	
C958	ECA2CM100	E 10UF, 160V	1	
C959	ECQB1103JF	P 0.01UF, J,100V	1	
C960	ECJ2XC1H221J	C 220PF, J, 50V	1	
C961	ECA2CM100	E 10UF, 160V	1	
C962	ECQM4472JZ	P 4700PF, J,400V	1	
C963	ECJ2XC1H221J	C 220PF, J, 50V	1	
C964	ECA1CHG101	E 100UF, 16V	1	
C966	ECA1CM101	E 100UF, 16V	1	
C967	ECA1CHG471	E 470UF, 16V	1	
C974	ECA1VM101	E 100UF, 35V	1	
C1040	ECQB1H223JF	P 0.022UF, J, 50V	1	
C1041	ECA1HM470	E 47UF, 50V	1	
C1043	ECKF1H101KB	C 100PF, K, 50V	1	
C1054	ECCF1H101J	C 100PF, J, 50V	1	
C1101	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1102	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1103-09	ECJ2VF1C104Z	C 0.1UF, Z, 16V	7	
C1112	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1115	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1116,17	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1118	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C1119-29	ECJ2VF1C104Z	C 0.1UF, Z, 16V	11	
C1130	EEVHB0G221	E 220UF, 4V	1	
C1131,32	ECJ2XC1H220J	C 22UF, J, 50V	2	
C1133-36	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C1137	EEVHB0G221	E 220UF, 4V	1	
C1140	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C1142	ECJ2XC1H151J	C 150PF, J, 50V	1	
C1144	ECJ2XG1H101J	C 100PF, J, 50V	1	
C1146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1147	ECA1CM101	E 100UF, 16V	1	
C1148	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1150,51	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1152,53	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C1154	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1156	ECA1HM100	E 10UF, 50V	1	
C1157,58	TCUY0J335MBM	C 3.3UF, 6.3V,2,F1K0J335A003		
C1159,60	EEVHB1C100	E 10UF, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1161	EEVHB0G221	E 220UF, 4V	1	
C1162	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1163	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1164	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1165	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1166	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1167	EEVHB1C101P	E 100UF, 16V	1	
C1168	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1170	ECEA1EKN100	E 10UF, 25V	1	
C1251	ECA1CM101	E 100UF, 16V	1	
C1252	ECA1HM100	E 10UF, 50V	1	
C1253,54	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1255	ECA1VM470	E 47UF, 35V	1	
C1290	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1292,93	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1294	ECA1CM101	E 100UF, 16V	1	
C1295	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1296	ECA1CM471	E 470UF, 16V	1	
C1300	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1302	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1303	ECJ1VC1H120J	C 12PF, J, 50V	1	
C1306	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1309	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1312	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1313	TACCN0J105KT	C 1UF, 6.3V	1	
C1315	TACCN0J105KT	C 1UF, 6.3V	1	
C1316-18	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1319	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1320	ECJ1XC1H060D	C 6PF, D, 50V	1	
C1322-34	ECJ2VF1C105Z	C 1UF, Z, 16V	13	
C1335	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1336	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1337-41	ECJ2VF1C105Z	C 1UF, Z, 16V	5	
C1342	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1344-54	ECJ2VF1C105Z	C 1UF, Z, 16V	11	
C1355,56	TCUY0J335MBM	C 3.3UF, 6.3V,2,F1K0J335A003		
C1357	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1358,59	ECJ1VB1H472K	C 4700PF, K, 50V	2	
C1360	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1361	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1362	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1363	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C1364	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1365	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1367	TACCN0J105KT	C 1UF, 6.3V	1	
C1370	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1371	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1372	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1373	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1374	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1376	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1377	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1378	ECJ1VB1H222K	C 2200PF, K, 50V	1	
C1379	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1380	TACCN0J105KT	C 1UF, 6.3V	1	
C1381	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1382	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C1383	TACCN0J105KT	C 1UF, 6.3V	1	
C1384	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1385	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1386,87	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C1389	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1390,91	TACCN0J105KT	C 1UF, 6.3V	2	
C1392	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1395	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1396	EEVHB0G221	E 220UF, 4V	1	
C1398,99	ECJ1VC1H120J	C 12PF, J, 50V	2	
C1400	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1401	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1404	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1405	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1411-13	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1414	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1415	ECJ1XC1H060D	C 6PF, D, 50V	1	
C1417-41	ECJ2VF1C105Z	C 1UF, Z, 16V	25	
C1442	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C1443	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1444-47	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C1448	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1449	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1450-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1454	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1455-58	ECJ2VB1C104K	C 0.1UF, K, 16V	4	
C1459	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C1460	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1461	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1462	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C1464	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1465	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1466	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1467	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1468-70	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C1471	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1472	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1473-75	ECJ2VB1C104K	C 0.1UF, K, 16V	3	
C1476	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1477	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1478	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1479,80	EEVHP1C100R	E 10UF, 16V	2	
C1481,82	TACCN0J105KT	C 1UF, 6.3V	2	
C1483	EEVHP1E4R7	E 4.7UF, 25V	1	
C1484,85	EEVHP1C100R	E 10UF, 16V	2	
C1489	TACCN0J105KT	C 1UF, 6.3V	1	
C1493	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1494,95	EEVHB0G221	E 220UF, 4V	2	
C1496	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1498	EEVHB0G221	E 220UF, 4V	1	
C1499	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1501	EEVHB1C470	E 47UF, 16V	1	
C1502,03	EEVHB0J101	E 100UF, 6.3V,2,EEVHB0J101P		
C1505-07	EEVHB0G221	E 220UF, 4V	3	
C1510,11	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C1513-15	ECJ2XB1C103K	C 0.01UF, K, 16V	3	
C1516	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C1544	ECA1CM101	E 100UF, 16V	1	
C1550,51	ECA1CM101	E 100UF, 16V	2	
C1563	ECA1CM470	E 47UF, 16V	1	
C1564,65	ECA1HM4R7	E 4.7UF, 50V	2	
C1566	ECA1HM220	E 22UF, 50V	1	
C1568,69	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2007	ECJ2XC1H560J	C 56PF, J, 50V	1	
C2008,09	ECJ2XC1H470J	C 47PF, J, 50V	2	
C2010	ECJ2XC1H560J	C 56PF, J, 50V	1	
C2011	ECJ2XC1H070D	C 7PF, D, 50V	1	
C2014	ECJ2XC1H010C	C 1PF, C, 50V	1	
C2015	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2016	ECA1CM101	E 100UF, 16V	1	
C2017	ECJ2XC1H010C	C 1PF, C, 50V	1	
C2024	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C2025	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2027	ECA1HM100	E 10UF, 50V	1	
C2028	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2030	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2031	ECA1CM101	E 100UF, 16V	1	
C2032	TACCN0J105KT	C 1UF, 6.3V	1	
C2033	ECA1HM100	E 10UF, 50V	1	
C2034,35	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2037	TACCN0J105KT	C 1UF, 6.3V	1	
C2038	ECA1HM100	E 10UF, 50V	1	
C2039	ECA1CM101	E 100UF, 16V	1	
C2040	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2041	ECA1HM3R3	E 3.3UF, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2042-46	ECJ2XB1H102K	C 1000PF, K, 50V	5	
C2224,25	ECEA1HKA100	E 10UF, 50V	2	
C2301	ECA1VHG222	E 2200UF, 35V	1	
C2302	ECQV1H684JM	P 0.68UF, J, 50V	1	
C2303	ECJ3VB1H104K	C 0.1UF, K, 50V	1	
C2304	ECA1VM222	E 2200UF, 35V	1	
C2305	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C2306	ECJ2XB1H561K	C 560PF, K, 50V	1	
C2307	ECJ2XB1H471K	C 470PF, K, 50V	1	
C2308	ECJ2XC1H270J	C 27PF, J, 50V	1	
C2309	ECJ2XB1H471K	C 470PF, K, 50V	1	
C2310	ECJ2XB1H331K	C 330PF, K, 50V	1	
C2311	ECEA1HKN0R1	E 0.1UF, 50V	1	
C2312	ECJ3VB1H104K	C 0.1UF, K, 50V	1	
C2313	ECJ2VB1H682K	C 6800PF, K, 50V 1 ECJ2VB1H332K		
C2314	ECJ2XB1H331K	C 330PF, K, 50V	1	
C2315	ECJ3VB1H104K	C 0.1UF, K, 50V	1	
C2316	ECJ2XB1H471K	C 470PF, K, 50V	1	
C2317	ECA1HM4R7	E 4.7UF, 50V	1	
C2318	ECEA1HKN0R1	E 0.1UF, 50V	1	
C2319	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2320	ECJ2XB1H681K	C 680PF, K, 50V	1	
C2321	ECA1CM471	E 470UF, 16V	1	
C2322	ECJ2XB1H471K	C 470PF, K, 50V	1	
C2323	ECQV1H684JM	P 0.68UF, J, 50V	1	
C2324	ECJ2VB1H682K	C 6800PF, K, 50V 1 ECJ2VB1H332K		
C2325	ECA1HM4R7	E 4.7UF, 50V	1	
C2327	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C2328	ECA1CM101	E 100UF, 16V	1	
C2329	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2330	ECJ2XB1H561K	C 560PF, K, 50V	1	
C2331	ECJ3VB1H104K	C 0.1UF, K, 50V	1	
C2332	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C2333	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C2334	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2336	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2337	ECA1CM470	E 47UF, 16V	1	
C2338,39	ECA1HM221	E 220UF, 50V	2	
C2340	ECA1CM101	E 100UF, 16V	1	
C2341	ECA1HM3R3	E 3.3UF, 50V	1	
C2342	ECA1CM101	E 100UF, 16V	1	
C2343	ECA1HM100	E 10UF, 50V	1	
C2344,45	ECJ2XB1H472K	C 4700PF, K, 50V	2	
C2347	ECEA1HN4R7U	E 4.7UF, 50V	1	(GK)
C2347	EEUFC1H102	E 1000UF, 50V	1	(A)
C2348	ECJ2XB1H681K	C 680PF, K, 50V	1	
C2349	ECQV1H105JM	P 1UF, J, 50V	1	
C2350	ECKF1H102KB	C 1000PF, K, 50V	1	
C2351	ECA1CM471	E 470UF, 16V	1	
C2352	ECEA1HN2R2U	E 2.2UF, 50V	1	
C2354	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2355	ECQV1H105JM	P 1UF, J, 50V	1	
C2356	ECKF1H102KB	C 1000PF, K, 50V	1	
C2357	ECQV1H154JM	P 0.15UF, J, 50V	1	
C2362	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2363	ECQV1H684JM	P 0.68UF, J, 50V	1	
C2364	ECA0JM222	E 2200UF, 6.3V	1	
C2365	ECA1HM3R3	E 3.3UF, 50V	1	
C2367	ECJ2XC1H561J	C 560PF, J, 50V	1	
C2368	ECJ3VB1H104K	C 0.1UF, K, 50V	1	
C2370	ECA1HM100	E 10UF, 50V	1	
C2372	ECEA1CN100U	E 10UF, 16V	1	
C2373	ECA1CM470	E 47UF, 16V	1	(GK)
C2373	ECJ2XB1H102K	C 1000PF, K, 50V	1	(A)
C2374	ECA1HM221	E 220UF, 50V	1	(GK)
C2374	ECJ2XB1H102K	C 1000PF, K, 50V	1	(A)
C2375	ECA1HM221	E 220UF, 50V	1	(GK)
C2375	ECJ2XB1H102K	C 1000PF, K, 50V	1	(A)
C2376	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2377	ECA1CM101	E 100UF, 16V	1	(GK)
C2377	ECJ2XB1H102K	C 1000PF, K, 50V	1	(A)
C2378	ECA0JM222	E 2200UF, 6.3V	1	
C2379	ECA1CM101	E 100UF, 16V	1	
C2380	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2381	ECA1HM010	E 1UF, 50V	1	
C2382	ECKF1H472KB	C 4700PF, K, 50V	1	
C2383	ECJ2XC1H101J	C 100PF, J, 50V	1	
C2384	ECJ2VB1H333K	C 0.033UF, K, 50V	1	(A)
C2384	ECKF1H472KB	C 4700PF, K, 50V	1	(GK)
C2386	ECJ2XB1H681K	C 680PF, K, 50V	1	
C2387	ECJ3VB1H104K	C 0.1UF, K, 50V	1	
C2388	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C2390	ECQV1H334JM	P 0.33UF, J, 50V	1	
C2393	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2395	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
C2396	ECA1HM2R2	E 2.2UF, 50V	1	
C2397	EEANA1E1R0	E 1UF, 25V	1	
C2398	ECA1CM102	E 1000UF, 16V	1	
C2399	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2400	ECA1VHG221	E 220UF, 35V	1	
C2423	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2424	ECEA1CN100U	E 10UF, 16V	1	
C2425,26	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2489	ECA1HHG221	E 220UF, 50V	1	
C2492,93	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
C2494	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2495	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2499	ECJ2XB1H471K	C 470PF, K, 50V	1	
C2590	ECA1CM471	E 470UF, 16V	1	
C2592	ECJ2XB1E333K	C 0.033UF, K, 25V	1	
C2593	ECJ2XF1C154Z	C 0.15UF, Z, 16V	1	
C2594	ECJ2XB1E333K	C 0.033UF, K, 25V	1	
C2596,97	ECJ2VB1C683K	C 0.068UF, K,16V	2	
C2610	ECA1CM471	E 470UF, 16V	1	
C2702	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2703	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2704	ECA1CM102	E 1000UF, 16V	1	
C2707	ECA1CHG471	E 470UF, 16V	1	
C2708	EEUFC1A471	E 470UF, 10V	1	
C2711	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2713	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2715	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2716	EEUFC1A471	E 470UF, 10V	1	
C2719,20	ECA1CM471	E 470UF, 16V	2	
C2721	ECA1CM102	E 1000UF, 16V	1	
C2722,23	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2726	ECA1EHG102	E 1000UF, 25V	1	
C2730,31	ECA1CM102	E 1000UF, 16V	2	
C2732	EEUFC1A471	E 470UF, 10V	1	
C2733	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2734	ECA1EM471	E 470UF, 25V	1	
C2737	ECA1CM471	E 470UF, 16V	1	
C2740	ECA1CM471	E 470UF, 16V	1	
C2750,51	TACCN0J105KT	C 1UF, 6.3V	2	
C3006	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3013-17	TACCN0J105KT	C 1UF, 6.3V	5	
C3018	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3020	TACCN0J105KT	C 1UF, 6.3V	1	
C3021	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3022,23	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C3024	TACCN0J105KT	C 1UF, 6.3V	1	
C3025	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3026-29	TACCN0J105KT	C 1UF, 6.3V	4	
C3030	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C3032,33	TACCN0J105KT	C 1UF, 6.3V	2	
C3034	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3035	ECA1CM101	E 100UF, 16V	1	
C3036	ECA1CM470	E 47UF, 16V	1	
C3037,38	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3042-45	TACCN0J105KT	C 1UF, 6.3V	4	
C3046	ECA1CM101	E 100UF, 16V	1	
C3047-49	TACCN0J105KT	C 1UF, 6.3V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3050	ECA1CM221	E 220UF, 16V	1	
C3051	TACCN0J105KT	C 1UF, 6.3V	1	
C3053,54	ECA1HM010	E 1UF, 50V	2	
C3057,58	TACCN0J105KT	C 1UF, 6.3V	2	
C3061-64	ECA1HM100	E 10UF, 50V	4	
C3067	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C3068	TACCN0J105KT	C 1UF, 6.3V	1	
C3069	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3077,78	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3079	ECEA1CN470U	E 47UF, 16V	1	
C3080	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3101-04	ECQB1H333JF	P 0.033UF, J, 50V	4	
C3107	ECKF1H561KB	C 560PF, K, 50V	1	
C3109	ECKF1H561KB	C 560PF, K, 50V	1	
C3111	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3112	ECJ2XC1H680J	C 68PF, J, 50V	1	
C3113	ECA1CM470	E 47UF, 16V	1	
C3114	ECEA1CKA470	E 47UF, 16V	1	
C3115	ECEA1CN470U	E 47UF, 16V	1	
C3301-03	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3323,24	ECA1HHG100	E 10UF, 50V	2	
C3410	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3412	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3414,15	ECJ2XC1H561J	C 560PF, J, 50V	2	
C3417	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3419	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3420	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3422	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3424	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3426	ECJ2XC1H561J	C 560PF, J, 50V	1	
C3430	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3450,51	ECEA1AKA221	E 220UF, 10V	2	
C3452,53	ECEA1CKA101	E 100UF, 16V	2	
C4801	ECA1CM101	E 100UF, 16V	1	
C4803,04	ECQV1H334JM	P 0.33UF, J, 50V	2	
C4806	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C4807,08	ECA1HM4R7	E 4.7UF, 50V	2	
C4809	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C4810	ECA1VM470	E 47UF, 35V	1	
C4811	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C4812	ECA1HM100	E 10UF, 50V	1	
C4813,14	ECA1CM101	E 100UF, 16V	2	
C4822	ECHU1C103JA5	P 0.01UF, 16V	1	
C4823,24	ECEA1CN100U	E 10UF, 16V	2	
C4825	EEUFC1C560	E 56UF, 16V	1	
C4826,27	ECA1HM4R7	E 4.7UF, 50V	2	
C4828,29	ECQV1H334JM	P 0.33UF, J, 50V	2	
D001	MA4020	ZENER DIODE	1	MAZ4020
D1	TJSF20316	16P CONNECTOR	1	K1KB16Z00001
D002	MA4020	ZENER DIODE	1	MAZ4020
D2	TJSF20316	16P CONNECTOR	1	K1KB16Z00001
D003	MA3150H	ZENER DIODE	1	MAZ31500H
D3	TJSF20316	16P CONNECTOR	1	K1KB16Z00001
D004	MA3150H	ZENER DIODE	1	MAZ31500H
D6	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
D7,D8	TJS5A9420	8P CONNECTOR	2	K1KB08A00054
D010	MA152K	DIODE	1	MA3X152K
D10	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
D20	TJS158130	2P CONNECTOR	1	K1KA02A00244
D051,52	MA4020	ZENER DIODE	2	MAZ4020
D053	MA152K	DIODE	1	MA3X152K
D351,52	ERA15-04	DIODE	2	B0EAKP000016
D353	MA3110L	ZENER DIODE	1	
D354	TL431CLP	LINEAR IC	1	C0DAZFC00003
D355,56	ERA15-04	DIODE	2	B0EAKP000016
D358	MA151K	DIODE	1	MA3X151K
D360	ERA22-02	DIODE	1	B0HAGM000001
D361-63	MA151K	DIODE	3	MA3X151K
D364-66	MA3130M	ZENER DIODE	3	MAZ31300M
D367-69	MA3051M	ZENER DIODE	3	MAZ30510M
D383	ERA15-04	DIODE	1	B0EAKP000016
D385	ERA22-04	DIODE	1	B0HAGP000001

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D386	ERA15-04	DIODE	1	B0EAKP000016
D389	ERA15-04	DIODE	1	B0EAKP000016
D450	EU02A	DIODE	1	B0HAMR000047
D452	MA152K	DIODE	1	MA3X152K
D453	EU02A	DIODE	1	B0HAMR000047
D454,55	MA152K	DIODE	2	MA3X152K
D456	ERA22-02	DIODE	1	B0HAGM000001
D465	MA3039H	ZENER DIODE	1	MAZ30390H
D502	MA4150M	ZENER DIODE	1	MAZ41500M
D503	TVSA81004	DIODE	1	B0JAME000009
D504	D1NL40V70	DIODE	1	B0HALP000002
D521,22	AU02A	DIODE	2	B0HAKR000005
D523,24	MA165	DIODE	2	MA2C165
D525,26	RP1H	DIODE	2	B0HACW000001
D553	MA167	DIODE	1	MA2C167
D554	EU02	DIODE	1	
D555	RH3G	DIODE	1	
D557	MA4033M	ZENER DIODE	1	MAZ40330M
D558	AU02	DIODE	1	B0HAKP000002
D559	FMV-3GU	DIODE	1	
D560	MA165	DIODE	1	MA2C165
D562	MA182	DIODE	1	MA2B182
D570	TVSRU3AN	DIODE	1	B0HAMR000035
D580	MA4360H	ZENER DIODE	1	MAZ43600H
D591	MA165	DIODE	1	MA2C165
D592	MA4104J	ZENER DIODE	1	
D593	ERA15-02	DIODE	1	B0EAKM000016
D594	MA165	DIODE	1	MA2C165
D595	MA4360M	ZENER DIODE	1	MAZ43600M
D701	D1NL40V70	DIODE	1	B0HALP000002
D802	RBV-608	DIODE	1	B0FBAT000002
D805	MA2240B	ZENER DIODE	1	MAZ22400B
D809	MA2082-A	ZENER DIODE	1	MAZ20820A
D811	MA2082-A	ZENER DIODE	1	MAZ20820A
D819-21	ERA22-04	DIODE	3	B0HAGP000001
D823	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 ⚠
D825,26	TRPW5B0N120D	POSISTOR	2	D4DDF1200001
D842	ERZV10D621CS	VARISTOR	1	
D843	TVSC0510	DIODE	1	B0AAMV000004
D844	TVSSR2KL	DIODE	1	
D845	RY24	DIODE	1	
D847	ERA22-10	DIODE	1	B0EAEV000002
D848	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 ⚠
D851	FMGG26S	DIODE	1	
D852	MA4030L	ZENER DIODE	1	MAZ40300L
D853,54	TVSRU2M	DIODE	2	B0HAMP000035
D855	FMGG2CS	DIODE	1	
D857	FMGG26S	DIODE	1	
D858,59	MA165	DIODE	2	MA2C165
D861	MA165	DIODE	1	MA2C165
D862	MA4360M	ZENER DIODE	1	MAZ43600M
D865	MA165	DIODE	1	MA2C165
D867	MA165	DIODE	1	MA2C165
D869	MA165	DIODE	1	MA2C165
D881	MA165	DIODE	1	MA2C165
D885	MA4056H	ZENER DIODE	1	MAZ40560H
D886,87	MA165	DIODE	2	MA2C165
D888	EU02	DIODE	1	
D890	ERZV10V621P2	VARISTOR	1	
D891	TVSC0510	DIODE	1	B0AAMV000004
D953	TVSSR2KN	DIODE	1	B0ZAZ0000041
D961	MA152K	DIODE	1	MA3X152K
D1051	EL333ID-F45R	DIODE	1	
D1152,53	MA152K	DIODE	2	MA3X152K
D1302	MA152K	DIODE	1	MA3X152K
D1305	MA704A	DIODE	1	MA3X704A
D1306	MA3062M	ZENER DIODE	1	MAZ30620M
D1307	MA3091M	ZENER DIODE	1	
D1308,09	MA152K	DIODE	2	MA3X152K
D1310-12	MA3062M	ZENER DIODE	3	MAZ30620M
D1313	MA3043M	ZENER DIODE	1	MAZ30430M

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D1315	MA3043M	ZENER DIODE	1	MAZ30430M
D2040-42	MA152K	DIODE	3	MA2C165
D2301	TVSRM26	DIODE	1	B0BA06500001
D2302	MTZJ5.6B	ZENER DIODE	1	
D2304	MTZJ5.6B	ZENER DIODE	1	
D2305	MA3047M	ZENER DIODE	1	MAZ30470M
D2306	MA29QA	DIODE	1	MA2C029QA
D2311	MA1180H	ZENER DIODE	1	MAZ11800H
D2312	MA3130H	ZENER DIODE	1	
D2313,14	MA152K	DIODE	2	MA3X152K
D2316	MA152K	DIODE	1	MA3X152K
D2711	RK34	DIODE	1	
D2712	AK04	DIODE	1	B0JAMC000003
D2713,14	RK34	DIODE	2	
D2715	MA29QA	DIODE	1	MA2C029QA
D3003,04	MA3091L	ZENER DIODE	2	
D3101,02	MA4030L	ZENER DIODE	2	MAZ40680M
D3103,04	MA165	DIODE	2	MA2C165
D3410	MA152K	DIODE	1	MA3X152K
DF1,F2	TJS3A9140	CONNECTOR	2	K1KA08B00121
F801	XBA2C50TR0	FUSE 250V 5A	1	K5D502BK0003 ⚠
F801-1,-2	EYF-52BC	FUSE HOLDER	2	
GK2,K3	TJS5A9180	10P CONNECTOR	2	K1KA10A00215
GK4	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
GK6	TJS158130	2P CONNECTOR	1	K1KA02A00244
GK8	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
GM1	TJS3A9890	9P CONNECTOR	1	K1KA09A00074
GM2	TJS3A9660	5P CONNECTOR	1	K1KA05A00138
H1,H2	TJSF17425	25P CONNECTOR	2	K1KA25B00004
H4	TJS1A8090	PHONO PIN (3P)	1	K1KA03B00045
IC051	AN7805F	LINEAR IC	1	
IC351-53	TDA6111Q	LINEAR IC	3	C1AA00000325
IC451	LA7876N	IC	1	
IC459	TC74HC221AF	MOS IC (CMOS S/LOGIC)	1	C0JBAM000065
IC501	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC801	STRF6656LF53	LINEAR IC	1	C5HABZZ00014
IC841	MIP0254SPSCF	INTEGRATED CIRCUIT	1	
IC851	SE140N	LINEAR IC	1	
IC1101	SDA6000	INTEGRATED CIRCUIT	1	
IC1102	TVRJ479-6	ROM IC	1	
IC1104	TVRJ506	IC (EEPROM 16KBIT)	1	
IC1105	S-80843ALY-Z	LINEAR IC	1	C0EAH0000067
IC1106	TVSA0500	IC	1	
IC1107	TC7MBD3245KL	IC	1	
IC1108	AN78L05	LINEAR IC	1	
IC1109	PST9119NR	INTEGRATED CIRCUIT	1	
IC1110	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1111	TC7SH32FU	IC	1	
IC1251	SI-3033C	HYBRID IC	1	
IC1252	PQ30RV21A	LINEAR IC	1	C0DAEZH00008
IC1253	M62392FP	IC	1	C0FBBD000083
IC1254	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1301	C1AB00001230	INTEGRATED CIRCUIT	1	
IC1302	TC74HC4066TL	IC	1	
IC1303	C1AB00001282	INTEGRATED CIRCUIT	1	
IC1304	C1AB00001230	INTEGRATED CIRCUIT	1	
IC1305	SDA9415	INTEGRATED CIRCUIT	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1306,07	MM1065ZMR	LINEAR IC	2	C0CBABB00029
IC1310	TC7WH241FU	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001263
IC1311	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1312	NJM2904V	INTEGRATED CIRCUIT	1	C0ABBA000084
IC1314	NJM2904M	LINEAR IC	1	C0ABBA000021
IC1315	AN5394FB	IC	1	
IC2001	TVSA0431	IC	1	
IC2301	TDA7490	IC	1	
IC2302	AN7108	LINEAR IC	1	
IC2303	NJM2059M	LINEAR IC	1	C0ABCB000023
IC2304	AN7108	LINEAR IC	1	
IC2305	TDA7481	LINEAR IC	1	C1AA00000562
IC2306,07	NJM2059M	LINEAR IC	2	C0ABCB000023
IC2705,06	PQ1CG21H2RZ	INTEGRATED CIRCUIT	2	C0DACMG00001
IC2707	AN7808	LINEAR IC	1	
IC2708	SI-8090K	HYBRID IC	1	
IC2709	PQ1CG21H2RZ	INTEGRATED CIRCUIT	1	C0DACMG00001
IC3001	CXA2069Q	LINEAR IC	1	C1AB00000459
IC3003	CXA1211M	LINEAR IC	1	C1AB00000013
IC3004,05	C0ZBZ0000451	IC	2	
IC3302	AN7812LB	LINEAR IC	1	
IC4801	AN6564NS	LINEAR IC	1	
IC4802,03	PUB4301	TRANSISTOR ARRAY	2	
IC4804	AN6564	LINEAR IC	1	
IC4805	TC4066BFN	MOS IC (CMOS S/LOGIC)	1	C0JBAS000095
IC4861	AN6562	LINEAR IC	1	
JA1	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JA6-A8	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JK351	TJSC01800	CRT SOCKET	1	K3B12GA00001 ⚠
JK3101	TJSF22915	15P CONNECTOR	1	
JK3102	TJB4G636	TERMINAL	1	
JK3401	TJB4G639	TERMINAL	1	
JSA3	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA5-A7	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSA19	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA22	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA27,28	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA32-36	ERJ6GEY0R00	M 0 OHM,J,1/10W	5	
JSA42	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA45,46	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA48	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA50,51	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA54	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA56	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA58	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA60,61	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA63	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA65,66	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA68-70	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSA73	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA78	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA83,84	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
JSA87	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA89	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA92-96	ERJ6GEY0R00	M 0 OHM,J,1/10W	5	
JSA99-01	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
JSA103	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSA104	ERD25TC0	C 0 OHM, 1/4W	1	
JSDG4	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG6	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG16	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG18	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG27	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG55	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JSDG57-88	ERJ3GEY0R00	M 0 OHM, 1/16W	32	
JSDG100	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG103	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSDG104-09	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JSDG111,12	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JSDG113	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSGK2	ERDS2TC0	C 0 OHM, 1/4W	1	
JSH1-H6	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JSL14	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSU1	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JSU3	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
L002	ELESE2R2KA	PEAKING COIL	1	
L2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
L003	ELESE2R2KA	PEAKING COIL	1	
L3	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
L004	EXCELDR35C	BEAD CHOKE	1	
L5	TJSF51701	CONNECTOR	1	
L008,09	EXCELDR35C	BEAD CHOKE	2	
L11,12	TJSF41601	CONNECTOR	2	K1ZZ00001074
L053	EXCELDR35C	BEAD CHOKE	1	
L055,56	ELESE2R2KA	PEAKING COIL	2	
L351	EXCELSA24	BEAD CHOKE	1	
L381,82	ELESE6R8JA	PEAKING COIL	2	
L383	ELESE150JA	PEAKING COIL	1	
L521	TALL13N182JB	INDUCTION COIL	1	
L559,60	EXCELDR35C	BEAD CHOKE	2	
L561	EXCELDR25C	BEAD CHOKE	1	
L568	EXCELDR35C	BEAD CHOKE	1	
L571	EXCELDR35C	BEAD CHOKE	1	
L574	ELH5L7706	LINEARITY COIL	1	
L575	ELHKLB073B	HORIZONTAL COIL	1	
L576	ELC18B331G	LINE FILTER	1	
L701	TALFP15B182K	CHIP INDUCTOR COIL	1	
L702	ELC18B151F	LINE FILTER	1	
L703	EXCELSA35	BEAD CHOKE	1	
L704	EXCELDR35C	BEAD CHOKE	1	
L812	EXCELSA39	BEAD CHOKE	1	
L815	EXCELSA39	BEAD CHOKE	1	
L818	EXCELSA39	BEAD CHOKE	1	
L841,42	EXCELDR25C	BEAD CHOKE	2	
L857	EXCELSA35	BEAD CHOKE	1	
L860	TALL08N100KA	INDUCTION COIL	1	G0C100K00009
L862	TALL08N680KA	INDUCTION COIL	1	G0A680GA0011
L874	EXCELSA35	BEAD CHOKE	1	
L877	EXCELSA35	BEAD CHOKE	1	
L883	TALL08N181KA	CHIP INDUCTOR COIL	1	G0A181EA0008
L890,91	ELF24V034A	LINE FILTER	2	⚠
L893	ELF24V032B	LINE FILTER	1	⚠
L894	ELF24V034A	LINE FILTER	1	ELF18D850X ⚠
L895	EXCELSA35	BEAD CHOKE	1	
L904	ELESE560JA	PEAKING COIL	1	
L953,54	EXCELSA35	BEAD CHOKE	2	
L956	EXCELSA35	BEAD CHOKE	1	
L1101	ERDS2TC0	C 0 OHM, 1/4W	1	
L1103,04	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1106	ELESE4R7JA	PEAKING COIL	1	
L1107-10	TALC325T4R7M	CHIP INDUCTOR COIL	4	
L1111	ELESE4R7JA	PEAKING COIL	1	
L1112	EXCELDR35C	BEAD CHOKE	1	
L1115	TALC325T3R3M	CHIP INDUCTOR COIL	1	
L1116	TALC325T4R7M	CHIP INDUCTOR COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1300	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1303	TALC168T2R2K	CHIP INDUCTOR COIL	1	
L1304	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1305	TALC168T3R3K	CHIP INDUCTOR COIL	1	
L1306	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1307	ERDS2TC0	C 0 OHM, 1/4W	1	
L1308,09	TLTAZ100K	PEAKING COIL	2	G1C100KA0002
L1310,11	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1312	EXCELDR35C	BEAD CHOKE	1	
L1313-15	TALC325T4R7M	CHIP INDUCTOR COIL	3	
L1317	TALC168T6R8K	CHIP INDUCTOR COIL	1	
L1318,19	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1321	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L1322	EXCELDR35C	BEAD CHOKE	1	
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L1328	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L2001,02	EXCELDR35C	BEAD CHOKE	2	
L2004	ELESE6R8KA	PEAKING COIL	1	
L2005	EXCELDR35C	BEAD CHOKE	1	
L2007,08	EXCELDR35C	BEAD CHOKE	2	
L2009,10	TALC325T4R7M	CHIP INDUCTOR COIL	2	
L2278	EXCELSA35	BEAD CHOKE	1	
L2301,02	TALL08N100KA	INDUCTION COIL	2	G0C100K00009
L2303	TAL10RP390LB	INDUCTION COIL	1	G0ZZ00001912
L2305	TAL10RP390LB	INDUCTION COIL	1	G0ZZ00001912
L2307	ERDS2TC0	C 0 OHM, 1/4W	1	
L2308	TALL08N270KA	INDUCTION COIL	1	G0A270GA0011
L2309	TAL10RP390LB	INDUCTION COIL	1	G0ZZ00001912
L2311	ELESE101JA	PEAKING COIL	1	
L2312,13	TALL08N100KA	INDUCTION COIL	2	G0C100K00009
L2314	EXCELDR35C	BEAD CHOKE	1	
L2315	ERDS2TC0	C 0 OHM, 1/4W	1	
L2316	EXCELDR35C	BEAD CHOKE	1	
L2317,18	ERDS2TC0	C 0 OHM, 1/4W	2	
L2319-25	EXCELDR35C	BEAD CHOKE	7	
L2523-26	ELESE6R8KA	PEAKING COIL	4	
L2527	EXCELSA35	BEAD CHOKE	1	
L2704	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L2705	EXCELDR35C	BEAD CHOKE	1	
L2706	TAL10RP101LB	INDUCTION COIL	1	
L2707,08	EXCELDR35C	BEAD CHOKE	2	
L2709	TLPF095	CHOKE COIL	1	G0A221GA0001
L2710	EXCELDR35C	BEAD CHOKE	1	
L2712	TAL10RP101LB	INDUCTION COIL	1	
L2713-15	EXCELDR35C	BEAD CHOKE	3	
L2716,17	TALL08N330KA	INDUCTION COIL	2	G0A330GA0011
L2718,19	TLPF095	CHOKE COIL	2	G0A221GA0001
L2722	EXCELDR35C	BEAD CHOKE	1	
L2724,25	EXCELDR35C	BEAD CHOKE	2	
L2727	EXCELDR35C	BEAD CHOKE	1	
L2729,30	EXCELDR35C	BEAD CHOKE	2	
L2732	EXCELDR35C	BEAD CHOKE	1	
L2734,35	EXCELDR35C	BEAD CHOKE	2	
L3002,03	ERDS2TC0	C 0 OHM, 1/4W	2	
L3004	ELESE4R7KA	PEAKING COIL	1	
L3050	ELESE221KA	PEAKING COIL	1	
L3403,04	ELESE1R5KA	PEAKING COIL	2	
L3415	EXCELDR35C	BEAD CHOKE	1	
L3420	ELESE4R7JA	PEAKING COIL	1	
L3424	EXCELDR25C	BEAD CHOKE	1	
L4801-04	EXCELDR35C	BEAD CHOKE	4	
L4807	EXCELDR35C	BEAD CHOKE	1	
L4815	EXCELDR35C	BEAD CHOKE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L4816	TLTACT100J	PEAKING COIL	1	G0C100JA0003
L4817	TALL08N102JA	INDUCTION COIL	1	G0A102E00001
LC1101,02	TLK212T256AL	EMI FILTER	2	
LC1104-06	TLK212T256AL	EMI FILTER	3	
LC1107-09	ELKE103FA	NOISE FILTER	3	
LC1110-13	TLK212T256AL	EMI FILTER	4	
LC1114	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1115-20	TLK20LFA103M	EMI FILTER	6	
LC1121-24	TLK20LFA224M	EMI FILTER	4	J0HABB000004
LC1125-28	TLK20LFA103M	EMI FILTER	4	
LC1129	TLK212T256AL	EMI FILTER	1	
LC1130-34	TLK20LFA103M	EMI FILTER	5	
LC1135	TLK212T256AL	EMI FILTER	1	
LC1136-39	TLK20LFA103M	EMI FILTER	4	
LC1140	TLK212T256AL	EMI FILTER	1	
LC1141-43	TLK20LFA103M	EMI FILTER	3	
LC1144-46	TLK212T256AL	EMI FILTER	3	
LC1147	ELKE103FA	NOISE FILTER	1	
LC1300-05	TLK20LFA224M	EMI FILTER	6	J0HABB000004
LC1309,10	TLK20LFA223M	EMI FILTER	2	J0HABB000003
LC1312	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1314-19	TLK20LFA223M	EMI FILTER	6	J0HABB000003
LC1320	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1321	TLK20LFA223M	EMI FILTER	1	J0HABB000003
LC1323	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1324,25	TLK20LFA223M	EMI FILTER	2	J0HABB000003
LC1326-28	TLK20LFA224M	EMI FILTER	3	J0HABB000004
LC1329-33	ELKE103FA	NOISE FILTER	5	
LC4801	MIU-212	CORRECTION COIL	1	L2DA00000002
Q002	2SB709A	TRANSISTOR	1	2SB0709A
Q052	2SB709A	TRANSISTOR	1	2SB0709A
Q369	2SB709A	TRANSISTOR	1	2SB0709A
Q451	2SD601A	TRANSISTOR	1	2SD0601A
Q460-63	2SD601A	TRANSISTOR	4	2SD0601A
Q501	2SK2962	FET	1	
Q521	2SK1006	FET	1	
Q522,23	2SC3311AS	TRANSISTOR	2	
Q524	2SC5460	TRANSISTOR	1	
Q525	2SC3311A	TRANSISTOR	1	2SC3311AW
Q551	2SC5591000RK	TRANSISTOR	1	
Q552	2SC1473A	TRANSISTOR	1	2SC1473AE
Q703	2SK2538000LB	FET	1	
Q805	2SK2123000LB	FET	1	
Q851	2SA1018	TRANSISTOR	1	
Q854	2SC3311A	TRANSISTOR	1	2SC3311AW
Q881,82	2SC3311A	TRANSISTOR	2	2SC3311AW
Q883	2SC1318-Q	TRANSISTOR	1	
Q902,03	2SD601A	TRANSISTOR	2	2SD0601A
Q908	2SD601A	TRANSISTOR	1	2SD0601A
Q951	2SB709A	TRANSISTOR	1	2SB0709A
Q952,53	2SD601A	TRANSISTOR	2	2SD0601A
Q954	2SB709A	TRANSISTOR	1	2SB0709A
Q955	2SA1535A	TRANSISTOR	1	
Q956	2SC3944A	TRANSISTOR	1	
Q1003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q1107	2SD601A	TRANSISTOR	1	2SD0601A
Q1115	2SD601A	TRANSISTOR	1	2SD0601A
Q1121-23	2SD601A	TRANSISTOR	3	2SD0601A
Q1125	2SD601A	TRANSISTOR	1	2SD0601A
Q1301-05	2SD601A	TRANSISTOR	5	2SD0601A
Q1306	2SB709A	TRANSISTOR	1	2SB0709A
Q1307	XN5601	TRANSISTOR	1	XN05601
Q1308,09	2SB709A	TRANSISTOR	2	2SB0709A
Q1311-16	2SB709A	TRANSISTOR	6	2SB0709A
Q1318,19	2SB709A	TRANSISTOR	2	2SB0709A
Q1321,22	2SB709A	TRANSISTOR	2	2SB0709A
Q1325,26	2SB709A	TRANSISTOR	2	2SB0709A
Q1327	2SK198R	FET	1	2SK01980R
Q1328	2SD601A	TRANSISTOR	1	2SD0601A
Q1329	2SK198R	FET	1	2SK01980R
Q1333	2SD601A	TRANSISTOR	1	2SD0601A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1336	2SB709A	TRANSISTOR	1	2SB0709A
Q1340	2SD601A	TRANSISTOR	1	2SD0601A
Q1342	2SD601A	TRANSISTOR	1	2SD0601A
Q2001-05	2SB709A	TRANSISTOR	5	2SB0709A
Q2040,41	2SD601A	TRANSISTOR	2	2SD0601A
Q2043	2SD601A	TRANSISTOR	1	2SD0601A
Q2215,16	2SD601A	TRANSISTOR	2	2SD0601A
Q2301-03	2SD601A	TRANSISTOR	3	2SD0601A
Q2304	2SC3311A	TRANSISTOR	1	2SC3311AW
Q2306,07	2SD601A	TRANSISTOR	2	2SD0601A
Q2308	2SB709A	TRANSISTOR	1	2SB0709A
Q2309,10	2SD601A	TRANSISTOR	2	2SD0601A
Q3006	2SB709A	TRANSISTOR	1	2SB0709A
Q3007	2SD601A	TRANSISTOR	1	2SD0601A
Q3011	2SD601A	TRANSISTOR	1	2SD0601A
Q3071,72	2SD601A	TRANSISTOR	2	2SD0601A
Q3130	2SD601A	TRANSISTOR	1	2SD0601A
Q3131	2SB709A	TRANSISTOR	1	2SB0709A
Q3132	2SD601A	TRANSISTOR	1	2SD0601A
Q3401	2SB709A	TRANSISTOR	1	2SB0709A
Q3402	2SD601A	TRANSISTOR	1	2SD0601A
Q4801,02	2SD601A	TRANSISTOR	2	2SD0601A
R001	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R002,03	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R005	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R008	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R052,53	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R055	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R056	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R057	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R058	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R059	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R064	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R351	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R352	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R353	ERJ6ENF1331	M1.13KOHM, 1/10W	1	
R354	ERG3FJS823D	M 82KOHM, J, 3W	1	
R355	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R356	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R357	ERC12GK561	S 560 OHM, K,1/2W	1	
R360	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R361	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R362	ERG3FJS823D	M 82KOHM, J, 3W	1	
R363	ERJ6ENF1331	M1.13KOHM, 1/10W	1	
R364	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R365	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R366	ERC12GK561	S 560 OHM, K,1/2W	1	
R371	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R372	ERJ6ENF1331	M1.13KOHM, 1/10W	1	
R373	ERG3FJ823H	M 82KOHM, J, 3W	1	
R374	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R375	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R376	ERC12GK561	S 560 OHM, K,1/2W	1	
R382	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R385	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R387	ERDS1TJ471	C 470 OHM, J,1/2W	1	
R451	ERDS1TJ2R7	C 2.7 OHM, J,1/2W	1	
R452	ERDS1TJ3R3	C 3.3 OHM, J,1/2W	1	
R453	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R454	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R455	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R456	ERG3FJ221H	M 220 OHM, J, 3W	1	
R457	ERJ6ENF7151	M7.15KOHM, 1/10W	1	
R458	ERJ6ENF3481	M3.48KOHM, 1/10W	1	
R459	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R460	ERJ6ENF3011	M3.01KOHM, 1/10W	1	
R461	ERDS1FJ1R0	C 1 OHM, J,1/2W	1	
R462	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R463	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R464,65	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R467	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R468	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R469	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R470,71	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R472	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R473	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R474	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R475	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R507	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R508	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R509	ERX3FJ1R0H	M 1 OHM, J, 3W	1	
R510	ERG1FJS561D	M 560 OHM, J, 1W	1	
R511	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R512	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R513	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R514	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R520	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R521	ERG2FJS123D	M 12KOHM, J, 2W	1	
R522	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R523,24	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R525	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R526	ERC14GK184	S 180KOHM, 1/4W	1	
R527	ERC14GK224	S 220KOHM, 1/4W	1	
R530	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R531	ERC14GK334	S 330KOHM, K,1/4W	1	
R532	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R533	ERG3FJS821D	M 820 OHM, J, 3W	1	
R534	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R535	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R536	ERG3FJS821D	M 820 OHM, J, 3W	1	
R537	ERC12GK104	S 100KOHM, K,1/2W	1	
R538	ERC14GK225	S 2.2MOHM, 1/4W	1	
R540	ERDS2TJ560	C 56 OHM, J,1/4W	1	
R551	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R552	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R555	ER0S2CKF4702	M 47KOHM, F,1/4W 1 EROS2CKF4702		
R556	ERF2AKR18	W0.18 OHM, K, 2W	1	
R557	ER050CKF2802	M 28KOHM, F,1/2W	1	
R558	ER0S2CKF2202	M 22KOHM, F,1/4W	1	
R559	ER0S2CKF1502	M 15KOHM, F,1/4W	1	
R560	ER0S2CKF3902	M 39KOHM, F,1/4W	1	
R564	ER0S2CKF1002	M 10KOHM, F,1/4W	1	
R566	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R569,70	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R572	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R577	ERG3FJ151H	M 330 OHM, J, 3W	1	
R578	ERG2FJ221H	M 220 OHM, J, 2W	1	
R580	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R581	ERDS2TJ154	C 150KOHM, J,1/4W	1	
R582	ERDS2TJ274	C 270KOHM, J,1/4W	1	
R583	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R584	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R586	ERQ2CJP2R2S	F 2.2 OHM, J, 2W	1	
R591	ER0S2CKF9101	M 9.1KOHM, F,1/4W	1	
R592	ER0S2CKF1132	M11.3KOHM, F,1/4W	1	
R593	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R594	ERDS2TJ334	C 330KOHM, J,1/4W	1	
R647	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R652,53	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R654	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R655-57	ERJ6GEYJ561	M 560 OHM,J,1/10W	3	
R658	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R705	ERF5ZJ220	W 22 OHM, J, 5W	1	
R714	ERDS1FJ680	C 68 OHM, J,1/2W	1	
R719	ERF5AK5R6	W 5.6 OHM, K, 5W	1	
R779	ERJ6ENF1152	M11.5KOHM, 1/10W	1	
R780	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R781	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R782	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R783	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R801	ERF7ZK2R7	W 2.7 OHM, K, 7W	1	
R803,04	ERG3FJS183D	M 18KOHM, J, 3W	2	
R806	ERX12SJR12P	M0.12 OHM, J,1/2W	1	
R807	ERC14GK824	S 820KOHM, 1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R810	ERX12SJR12P	M0.12 OHM, J,1/2W	1	
R815	ERDS1TJ470	C 47 OHM, J,1/2W	1	
R819	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R820	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R836,37	ERDS2TJ152	C 1.5KOHM, J,1/4W	2	
R839	ERD75TAJ825	C 8.2MOHM, J,3/4W	1	
R841	ERF2AJ560	W 56 OHM, J, 2W	1	⚠
R842	ERG1FJS104D	M 100KOHM, J, 1W	1	
R843	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R851	ERDS1TJ153	C 15KOHM, J,1/2W	1	
R853	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R854	ERDS1TJ333	C 33KOHM, J,1/2W	1	
R855	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R856	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R857	ERF7ZK2R2	W 2.2 OHM, Z, 7W	1	
R859	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R860	ERDS1TJ182	C 1.8KOHM, J,1/2W	1	
R861,62	ERDS1FJ1R0	C 1 OHM, J,1/2W	2	
R863	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R867	ERG3FJS153D	M 15KOHM, J, 3W	1	
R871	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R872	ERDS2TJ154	C 150KOHM, J,1/4W	1	
R874	TSF19402	PROTECTOR	1	K5Y402Z00001
R881	ERDS1TJ122	C 1.2KOHM, J,1/2W	1	
R883	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R884	ERDS1TJ102	C 1KOHM, J,1/2W	1	
R885	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R888	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R891	ERC12ZGK105	S 1MOHM, K,1/2W	1	⚠
R901	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R902	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R903	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R904	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R905	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R906	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R907	ERJ6GEYJ510	M 51 OHM,J,1/10W	1	
R908	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R909	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R950	ERQ1CJP331S	F 330 OHM, J, 1W	1	
R952	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R953	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R954	ERDS1FJ561	C 560 OHM, J,1/2W	1	
R955	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R956	ERDS1FJ561	C 560 OHM, J,1/2W	1	
R957,58	ERDS1TJ330	C 33 OHM, J,1/2W	2	
R960	ERQ14AJ100P	F 10 OHM, J,1/4W	1	
R962,63	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R964	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R965	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R966	ERG3FJS151D	M 150 OHM, J, 3W	1	
R967	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R968	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R969	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R970,71	ERJ6GEYJ2R7	M 2.7 OHM,J,1/10W	2	
R972	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R973	ERDS1FJ121	C 120 OHM, J,1/2W	1	
R1042	ERDS2TC0	C 0 OHM, 1/4W	1	
R1043	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R1044	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R1045	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R1046	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R1050	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R1051	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1081	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R1082	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R1083,84	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R1101,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1103	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1104	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1105	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1106	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1107-10	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	4	
R1111,12	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1113	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1114	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1115	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1116	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1117	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1118-21	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	
R1122-25	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R1126	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1128	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1131	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1132	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1143	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1145	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	
R1146	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1153	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1154	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1155	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157,58	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1160	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1161	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1162	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R1164	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1166	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R1167	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1168	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1169	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1170	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1172	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1177	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1179	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R1180	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1181	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1188-93	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1195	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1196	EXB38V680J	RESISTOR ARRAY	1	
R1202	EXB38V680J	RESISTOR ARRAY	1	
R1205	EXB38V680J	RESISTOR ARRAY	1	
R1209	EXB38V680J	RESISTOR ARRAY	1	
R1214	EXB38V680J	RESISTOR ARRAY	1	
R1217	EXB38V680J	RESISTOR ARRAY	1	
R1221	EXB38V680J	RESISTOR ARRAY	1	
R1225	EXB38V680J	RESISTOR ARRAY	1	
R1232,33	EXB38V680J	RESISTOR ARRAY	2	
R1236	EXB38V680J	RESISTOR ARRAY	1	
R1239,40	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R1241	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1242	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1243	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R1249,50	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1251	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1253	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1255	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1257	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1258	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1264	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1293,94	ERJ6ENF3901	M 3.9KOHM, 1/10W	2	
R1301	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1302	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1303	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1304	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R1305	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R1306	ERJ6ENF1200	M 120 OHM, 1/10W	1	
R1307,08	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R1309,10	ERJ6ENF9310	M 931 OHM, 1/10W	2	
R1311	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1312	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1313,14	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R1315	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1316	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1317	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1318	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1319	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R1320	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1321	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1322	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1323	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1324	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1326	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1327	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1328	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1329	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1330	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1331	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1332	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1335	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1338	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1339	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1340,41	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R1343	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1344	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1345	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1346	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1347	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1348	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1349	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1350	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1351	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R1352	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R1353	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1354	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1355	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1356	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1357	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1358	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1359	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1360	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R1361	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1362	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1363-65	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	
R1366	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1367	ERJ6ENF3000	M 300 OHM, 1/10W	1	
R1368	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1369	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1370	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1371	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1372	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1373	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1374	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1375,76	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1377	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
R1379	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1380	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1381	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1382	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1383	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1384	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1385	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R1387	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1388	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1389	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1390	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1391	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1392	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1393	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1394	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1395	ERJ6ENF7500	M 750 OHM, 1/10W	1	
R1396	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R1402	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1403	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1406	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1407	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1408	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R1409	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R1411	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1413	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1415	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1417,18	ERJ6ENF56R0	M 56 OHM, 1/10W	2	
R1419	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R1423	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1425,26	ERJ6ENF9310	M 931 OHM, 1/10W	2	
R1429	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1430	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R1431	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1433	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1434,35	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R1436	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1437	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R1438	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1440	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R1443	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R1446	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R1447,48	ERJ6ENF1500	M 150 OHM, 1/10W	2	
R1451	ERJ6ENF5490	M 549 OHM, 1/10W	1	
R1452	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R1453	ERJ3GEYJ180	M 18 OHM,J,1/16W	1	
R1454	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1455	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	
R1457	ERJ6GEYJ684	M 680KOHM,J,1/10W	1	
R1458	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R1459	ERJ6ENF5491	M5.49KOHM, 1/10W	1	
R1460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1461	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
R1465	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1466	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1467	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1468	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1471	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1473	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R1474	ERJ6GEYJ274	M 270KOHM,J,1/10W	1	
R1475	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1476	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1477	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1480,81	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R1482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R1485	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1492	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1529	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R1531	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R1543	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R2001	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2002	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2004	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2006-08	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R2015	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2019	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2025,26	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R2030,31	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2033-37	ERJ6GEY0R00	M 0 OHM,J,1/10W	5	
R2039,40	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2041	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2042	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2043,44	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2051	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2255	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2256,57	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R2258	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2301	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2303	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2304	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2305	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2306	ERJ6ENF5232	M52.3KOHM, 1/10W	1	
R2307	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R2308	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R2309	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2310	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2311	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R2312	ERJ6GEYJ134	M 130KOHM,J,1/10W	1	
R2315	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2316	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2317	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2318	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2319	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2321,22	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R2323	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R2324-26	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R2327	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2328	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R2329	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R2330	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2331	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2332	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2333	ER0S2CKF4702	M 47KOHM, F,1/4W 1 EROS2CKF4702		
R2334	ERJ6ENF5232	M52.3KOHM, 1/10W	1	
R2335	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R2336	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2337	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R2338,39	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2340-42	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2343	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R2343	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2344	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R2346	ERJ6GEYJ303	M 30KOHM,J,1/10W	1	
R2347	ERDS2TJ103	C 10KOHM, J,1/4W	1	(GK)
R2347	ERJ6GEYJ823	M 82KOHM,J,1/10W	1	(A)
R2348	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2349	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2351	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2352	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2353	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2354,55	ERDS2TJ562	C 5.6KOHM, J,1/4W	2	
R2357	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2362,63	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R2365	ERG1SJ102P	M 1KOHM, J, 1W	1	
R2366	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2367	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R2368	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2369	ERX3FJS4R7D	M 4.7 OHM, J, 3W	1	
R2370	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2372	ERJ6ENF6202	M 62KOHM, 1/10W	1	
R2373,74	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2375	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2376	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R2377	ERG3FJ561H	M 560 OHM, J, 3W	1	
R2379	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R2380,81	ERDS2TJ222	C 2.2KOHM, J,1/4W	2	
R2382	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2383	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2384	ERG3FJ471H	M 470 OHM, J, 3W	1	
R2385	ERJ6GEYJ752	M 7.5KOHM,J,1/10W	1	
R2386	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2387	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R2388	ERDS2TJ101	C 100 OHM, J,1/4W	1	(A)
R2388	ERDS2TJ103	C 10KOHM, J,1/4W	1	(GK)
R2390	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2391	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2392	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2395	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2397	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R2398	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2399	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2400	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2401	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2421	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2422	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2423	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2428	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R2429	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R2430	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R2467	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R2470-73	ERJ6GEYJ183	M 18KOHM,J,1/10W	4	
R2474	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R2475,76	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	2	
R2477	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R2478	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R2480	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2485	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2486	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2489	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2490	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2491	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2498	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2499	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2502	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2717	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2718	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2719	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2720	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2723	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2724	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2725	ERJ6ENF1301	M 1.3KOHM, 1/10W	1	
R2726	ERJ6ENF4121	M4.12KOHM, 1/10W	1	
R2727	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R2728	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R2731	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R2732	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R3012,13	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3014	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3015	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3016	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3017-20	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R3021	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3022,23	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3025-27	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R3028	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3029,30	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R3031	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3033,34	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3037,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3044	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3049	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3050	ERJ6ENF5600	M 560 OHM, 1/10W	1	
R3051	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3052,53	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R3054	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3055-58	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3059	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3062	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3065	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3067	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3068	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3071	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R3073	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3074	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3076	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3077-79	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	3	
R3084-90	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	7	
R3101	ER0S2CKF75R0	M 75 OHM, F,1/4W 1 EROS2CKF75R0		
R3102	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R3103	ER0S2CKF75R0	M 75 OHM, F,1/4W 1 EROS2CKF75R0		
R3104	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R3105	ER0S2CKF75R0	M 75 OHM, F,1/4W 1 EROS2CKF75R0		
R3106	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R3107	ERDS2TJ333	C 33KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3108	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R3109	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R3110	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R3116	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3122	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R3123	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R3124	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R3125	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3126	ERJ6GEYJ121	M 120 OHM,J,1/10W	1	
R3127	ERJ6GEYJ390	M 39 OHM,J,1/10W	1	
R3128	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3129,30	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R3326	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R3410-13	ERJ8ENF75R0	M 75 OHM, 1/8W	4	
R3416,17	ERJ8ENF75R0	M 75 OHM, 1/8W	2	
R3420	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3421	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3422	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3455	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R3456	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3457	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R3458	ERJ8GEYJ331	M 330 OHM, J,1/8W	1	
R4801	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R4802	ERJ6ENF1331	M1.13KOHM, 1/10W	1	
R4803	ERJ6ENF3320	M 332 OHM, 1/10W	1	
R4804	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R4805	ERJ6ENF2213	M 221KOHM, 1/10W	1	
R4806	ERJ6ENF5491	M5.49KOHM, 1/10W	1	
R4807	ERJ6ENF9091	M9.09KOHM, 1/10W	1	
R4808	ERJ6ENF3832	M38.3KOHM, 1/10W	1	
R4809	ERJ6ENF5621	M5.62KOHM, 1/10W	1	
R4810	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R4811	ERDS1FJ330	C 33 OHM, J,1/2W	1	
R4816	ERDS1FJ121	C 120 OHM, J,1/2W	1	
R4818	ERX12SJ2R7P	M 2.7 OHM, J,1/2W	1	
R4819	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R4820	ERJ6ENF1331	M1.13KOHM, 1/10W	1	
R4821	ERJ6ENF3320	M 332 OHM, 1/10W	1	
R4822	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R4823	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R4824	ERJ6ENF5621	M5.62KOHM, 1/10W	1	
R4825	ERJ6ENF3832	M38.3KOHM, 1/10W	1	
R4826	ERJ6ENF2213	M 221KOHM, 1/10W	1	
R4827	ERJ6ENF9091	M9.09KOHM, 1/10W	1	
R4828	ERJ6ENF6651	M6.65KOHM, 1/10W	1	
R4829	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R4831	ERDS1FJ270	C 27 OHM, J,1/2W	1	
R4840	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4841	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R4842	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R4844	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R4845	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R4846	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R4850-53	ERJ6GEYJ104	M 100KOHM,J,1/10W	4	
R4854,55	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R4856,57	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4860	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R4861	EVMEGSA00B23	CONTROL 2KOHMB	1	
R4862	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R4863	EVMEGSA00B23	CONTROL 2KOHMB	1	
RL801	K6B1ADA00010	RELAY	1	⚠
RL802	K6B2ADA00004	REALY	1	⚠
RL3401	TSEH8017	SWITCH	1	K6B2CFA00015
RM1001	RPM-637CBRS2	REMOTE CONTROL R	1	
RT1	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
RT2	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
S840	ESB92S11B	SWITCH	1	⚠
S1003-07	EVQ23405R	SWITCH	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
T501	ETH19Y187AY	H DRIVE TRANS	1	
T551	ZTFM77018A1	FLYBACK TRANS	1	⚠
T701	ETF18L101A	TRANS	1	⚠
T801	ETS39AG296AC	SWITCHING TRANSFORMER	1	⚠
T841	ETS19AB1G6AG	SWITCHING TRANSFORMER	1	⚠
T2401	ETS35AA4R6AC	SWITCHING TRANSFORMER	1	
TNR001	ENGF9102G	TUNER	1	⚠
TNR002	ENG39606G	TUNER	1	⚠
U1,U2	K1KB30A00092	30P CONNECTOR	2	
X1301,02	TSSA171	CRYSTAL	2	
X2101	TSSA128	CRYSTAL	1	H0D184500008
X3501	H0J600400006	CRYSTAL	1	