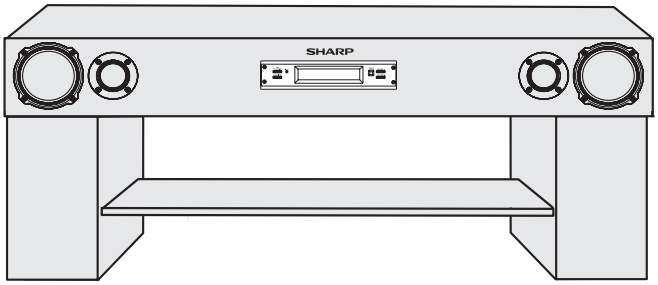
SHARP SERVICE MANUAL

No. S7627ANP1000H



HOME CINEMA SYSTEM

MODEL AN-PR1000H

HOME CINEMA SYSTEM

MODEL AN-PR1000HR

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

CONTENTS

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1. Employing lead-free solder

"MAIN, POWER, DISPLAY, TRANSMIT, RE-FRESH MICOM, SPACER, AMPLIFIER, SUB WOOFER PWB" of this model employs lead-free solder.

The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Sn-Ag-Cu Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Ref No.	Parts No.	Description
PWB-A	92LPWB6613MANS	MAIN
PWB-B	92LPWB6613PWRS	POWER (B1), DISPLAY (B2), TRANSMIT (B3), RE-FRESH MICOM (B4), SPACER (B5)
PWB-C	92LPWB6613AMPS	AMPLIFIER
PWB-D	92LPWB6613SWFS	SUB WOOFER

CHAPTER 1: GENERAL DESCRIPTION

[1] Specifications

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

• Main unit

Amplifier section	
Power source	AC 220 V - 240 V, 50 Hz
Power consumption	Power on: 80 W Power stand-by: 0.6 W
Amplification system	Front speaker: Pulse width modulation Subwoofer: Pulse width modulation
Frequency range	FM: 87.5 - 108 MHz
Output power	Front speaker: RMS: 150W (75W + 75W) (10% T.H.D) Subwoofer: RMS: 150W (75W + 75W) (10% T.H.D)
Audio input terminals	Optical digital input (DIGITAL 1/2): Square type x 2 Coaxial digital input (DIGITAL 3): RCA type x 1 Analog input (LINE 1): RCA type x 1 pair (L/R) Analog input (LINE 2): RCA type x 1 pair (L/R) Analog input (LINE 3): RCA type x 1 pair (L/R)
Audio output terminal	Subwoofer Pre Out: 10 kohms
Front speaker section	
Type	2-way type speaker system (Magnetic shield) 5 cm (2") Tweeter x 1 10 cm (4") Woofer x 1
Impedance	4 ohms
General	
Dimensions	Width: 1230 mm (48-7/16") Height: 476 mm (18-3/4") Depth: 397 mm (15-5/8")
Weight	46.5 kg (102.3 lbs.)

• Subwoofer

Type	Bass reflex system 16 cm (6-1/2") Woofer x 1
Maximum input power	150 W
Impedance	4 ohms

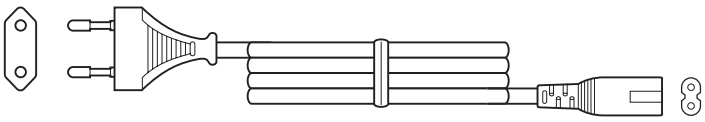
• Remote control

Power source	DC 3V [“AAA” size (UM-4, R03, HP-16 or similar) battery x 2]

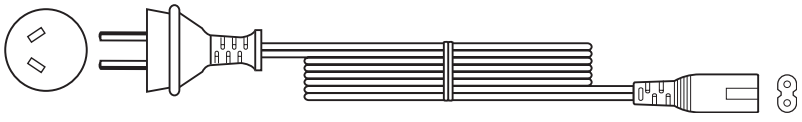
Specifications for this model are subject to change without prior notice.

[2] AC Power Supply Cord

QACCEA002AW00

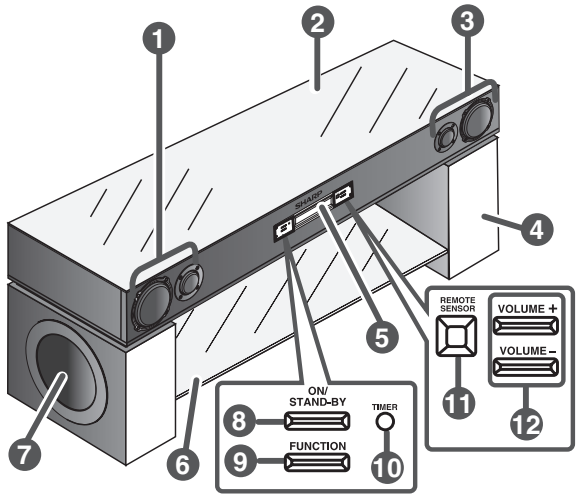


QACCLA002AW00



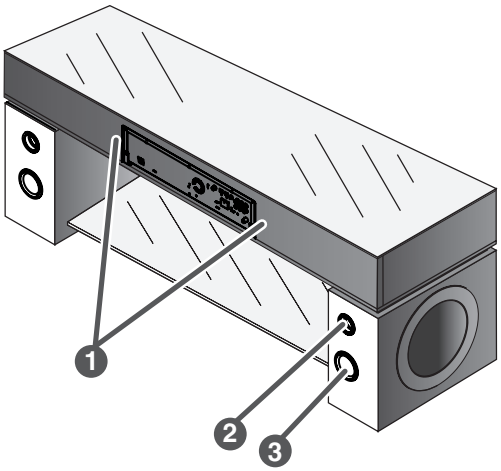
[3] Names Of Parts

■ Main Unit (front panel)

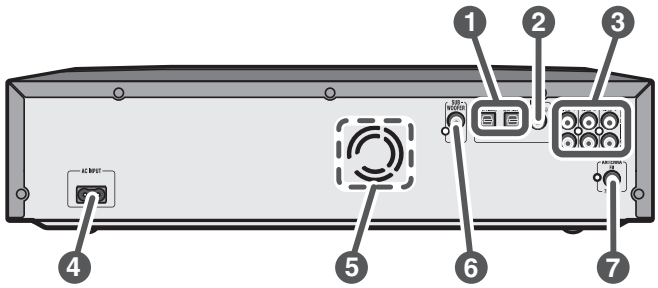


1. Left Front Speakers
2. Top glass cover
3. Right Front Speakers
4. Right Subwoofer
5. Display
6. Glass shelf
7. Left Subwoofer
8. On/Stand-by Button
9. Function Button
10. Timer Indicator
11. Remote Sensor
12. Volume Up and Down Buttons

■ Main Unit (rear panel)

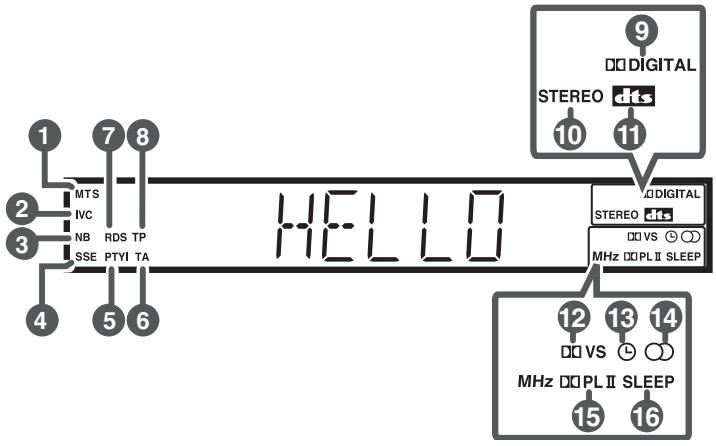


1. Screw Hole for safety wire
2. Speaker Terminal
3. Bass Reflex Duct



1. Optical Digital Audio Input Sockets
2. Coaxial Digital Audio Input Socket
3. Audio Line Input Sockets
4. AC Power Input Socket
5. Cooling Fan
6. Subwoofer Pre Output Socket
7. FM 75 Ohms Aerial Socket

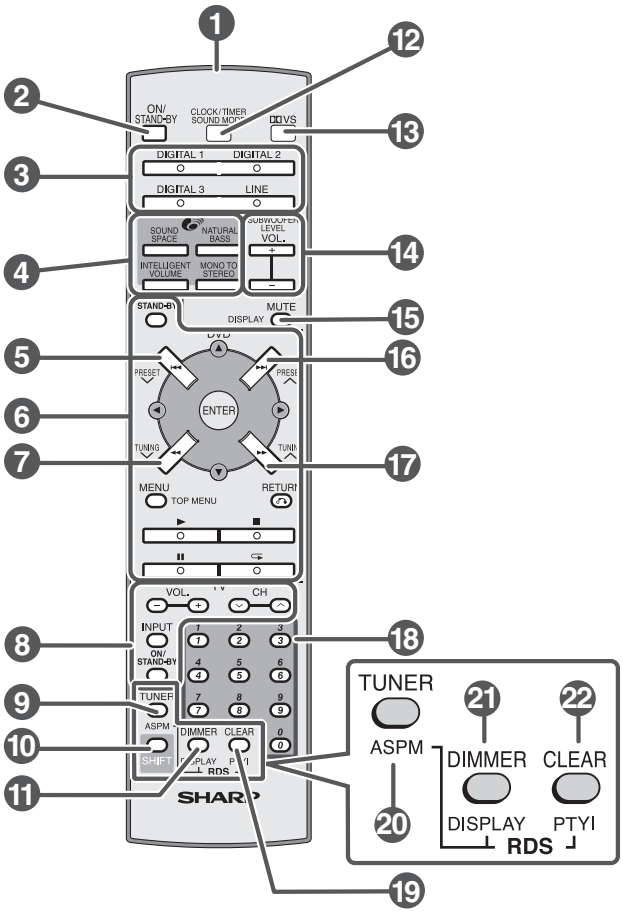
■ Display



1. Mono to Stereo indicator
2. Intelligent Volume indicator
3. Natural Bass indicator
4. Sound Space indicator
5. Dynamic PTY indicator
6. Traffic Announcement indicator
7. RDS indicator
8. Traffic Programme indicator
9. Dolby Digital Signal indicator
10. FM Stereo Mode indicator
11. DTS Signal indicator
12. Dolby Virtual Sound indicator
13. Timer indicator
14. FM Stereo Receiving indicator
15. Dolby Prologic II indicator
16. Sleep indicator

Remote control

1. Remote Control Transmitter
2. ON/STAND-BY button
3. Input Select Buttons
4. Audistry Sound Mode Buttons
5. Tuner Preset Down Button
6. DVD Player Operation Buttons
7. Tuning Down Button
8. TV Operation Buttons
9. Tuner Button
10. Shift Button
11. Dimmer Button
12. Preset Sound Mode / Clock / Timer Button
13. Dolby Virtual Speaker Button
14. Volume Up and Down/ Subwoofer Level Up and Down Buttons
15. Mute/Display Button
16. Tuner Preset Up Button
17. Tuning Up Button
18. Direct Number Buttons
19. Clear Button
20. RDS ASPM Button
21. RDS Display Button
22. RDS PTYI Button



DVD Player Operation Buttons

ON/STAND-BY button
ON/ STAND-BY
Sets the DVD power to "ON" or "STAND- BY".

Cursor Buttons
Press the button to select menus and items.

Review/Cue Buttons
Press to go backward or forward (search).

Chapter (Track) Skip Down/Up Buttons
Skip down/up the DVD chapters (tracks).

Enter Button
ENTER
Press to set a menu or an item.

Menu/Top Menu Button
MENU / TOP MENU
Press to display the menu.

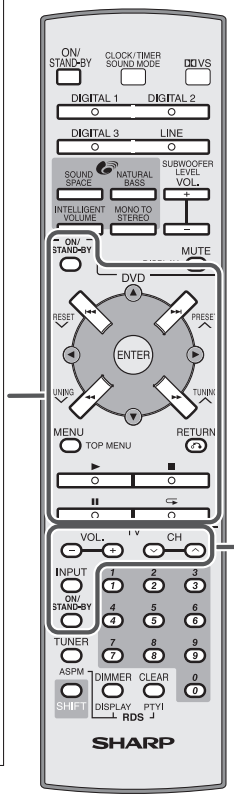
Return Button
RETURN
Press the button to return to the previous step.

Play Button
Play back the DVD player.

Stop Button
Stops the DVD player.

Pause Button
Press to pause.

Repeat Play Button
Press to repeat playback.



TV Operation Buttons

Volume Up and Down Buttons
VOL.
Turn down/up the TV volume.

Channel Up and Down Buttons
CH
Switch down/up the TV channels.

Input Select Button (TV/VCR)
INPUT
Press the button to switch the input source.

ON/STAND-BY button
ON/ STAND-BY
Sets the TV power to "ON" or "STAND-BY".

CHAPTER 2. ADJUSTMENTS

[1] Description Of Error Messages

Error message	Cause	Solution
“ERR 01” (Appears for 2 seconds and then the system goes standby.)	• Rotation stop of the fan motor	• Check if the fan motor cord is inserted properly and the fan motor is not locked.
“ERR 02” (When this error is not detected, the initial display appears.)	• Error in the ICM6 (CS49510) control	• Unplug the AC power cord and turn on power again. • Check the line connected between ICM6 and ICM7.
“ERR 03” (When this error is not detected, the initial display appears.)	• Internal communication error of the system [ICA1 (WM8775) or ICM3 (CS8416CN)]	• Unplug the AC power cord and turn on power again. • Check the line connected among ICA1, ICM3, ICM8 and ICM7.
“ERR 07” (When this error is not detected, the initial display appears.)	• Internal communication error of the system [ICM10 (LC750512)]	• Unplug the AC power cord and turn on power again. • Check the line connected between ICM10 and ICM7.
“ERR 80” (When this error is not detected, the initial display appears.)	• Internal data read access error of ICM8 (CAT24WC05YI)	• Check EEPROM data. • Replace EEPROM IC (ICM8).

* For other error messages using STANDBY LED, refer to the corresponding pages.

[2] Test Mode

1. Entering the test mode

In the AC OFF state, hold down the “FUNCTION” key and press the POWER key. Then switch on AC to enter the test mode route state.

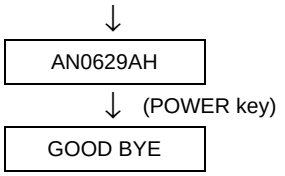
* Be sure to follow the above procedure to enter the test mode.

2. Exiting the test mode

In the test mode route state, press the POWER key to turn off the system and exit the test mode.

3. Operation

(Test mode start-up operation)



Version Display
(example version date is 29/06/2006)

Display “GOOD BYE”
(as in the case of the user mode)

4. Remote control key operation

Key operation is described by using the names of the main unit keys. For remote control key operation, each test can be enter directly as follow.

* However, remote control keys are unavailable for starting the test mode.

Remote Control Key	Test Mode
MUTE key	Volume Test
DVS key	Key Test
SOUND MODE key	EEPROM Mode Test
TUNER key	Tuner Test
ASPM key	ASPM Test

* Remote control keys are unavailable for starting the test mode.

[3] EEPROM Mode

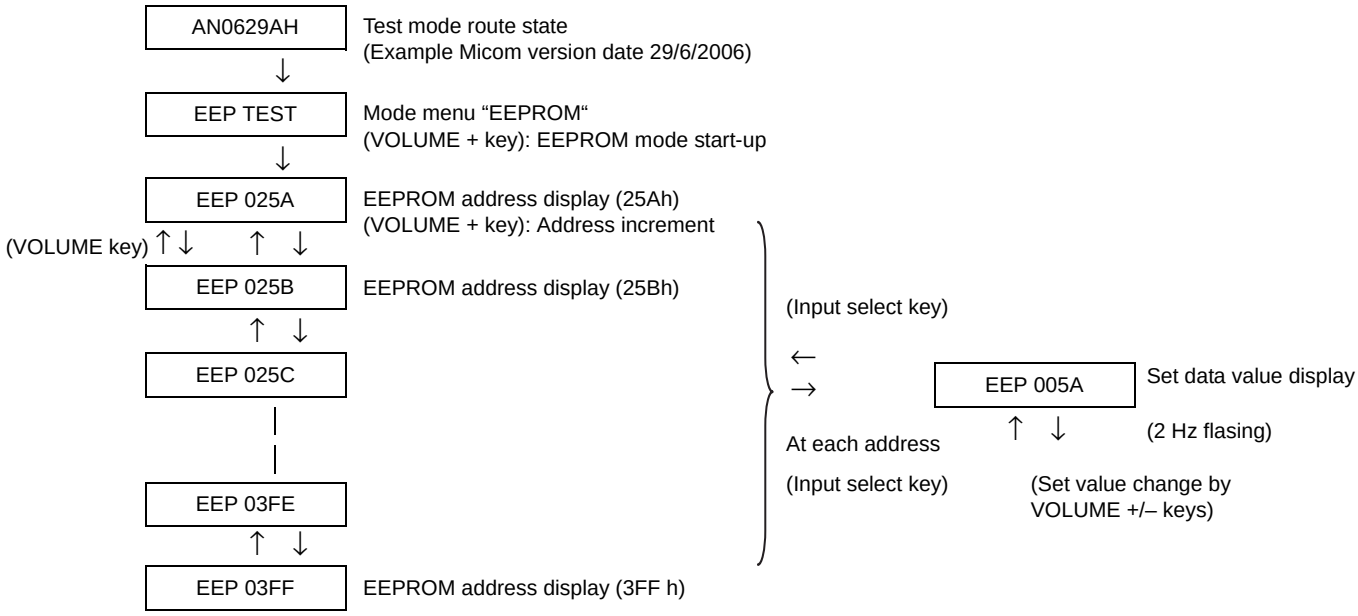
When replacing EEPROM IC, necessary data are not recorded inside; “Protect area read error” (“ERR 80”) occurs.

To avoid this state, write the data into the corresponding device.

1. Enter the test mode and check set data values of each address according to the EEPROM set data table on the right.
   If necessary, change the set data values.

NOTE: (Data are written into EEPROM in the procedure 4 below.)

(Do not stop power supply to the product)



2. Exiting the EEPROM mode from the address value display state.
   (Press the POWER key once in the address value display state.)
   (The product enters the test mode route state.)

3. Exiting the test mode
   (Press the POWER key once in the test mode route state.)
   (Then the data are written into EEPROM. After the write operation, the product enters the standby state.)

4. After checking that the product enters the standby state, stop power supply to the product.
   (This operation initializes the error state.)

* Operation ends.

[4] EEPROM List (Version: 02) (1/2)

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
025A	602	PVER		02h	AUMD	#REF!	07h
025C	604	ITVL		25h	ITVC		01h
025E	606	NBCF		05h	NBLV		65h
0260	608	INISW		FFh	CHECK-SUM		67h
0262	610	reserved		FFh	reserved		FFh
0264	612	reserved		FFh	reserved		FFh
0266	614	CHECK-SUM		03h	OFGA		00h
0268	616	OFBS		00h	OFTR		00h
026A	618	reserved		FFh	CIGA		02h
026C	620	CIBS		00h	CITR		03h
026E	622	reserved		FFh	ANGA		00h
0270	624	ANBS		0Bh	ANTR		05h
0272	626	reserved		FFh	SOGA		02h
0274	628	SOBS		00h	SOTR		03h
0276	630	reserved		FFh	SPGA		02h
0278	632	SPBS		00h	SPTR		03h
027A	634	reserved		FFh	LAGA		02h
027C	636	LABS		00h	LATR		03h
027E	638	reserved		FFh	reserved		FFh
0280	640	CHECK-SUM		E2h	E48AU		3Ch
0282	642	E48AM		39h	E48AL		83h
0284	644	E48BU		A0h	E48BM		A3h
0286	646	E48BL		60h	E48CU		29h
0288	648	E48CM		EBh	E48CL		F2h
028A	650	E48DU		5Fh	E48DM		5Ch
028C	652	E48DL		9Fh	E48EU		D9h
028E	654	E48EM		DAh	E48EL		8Ah
0290	656	E44AU		3Bh	E44AM		F9h
0292	658	E44AL		E1h	E44BU		A3h
0294	660	E44BM		71h	E44BL		6Dh
0296	662	E44CU		28h	E44CM		77h
0298	664	E44CL		D4h	E44DU		5Ch
029A	666	E44DM		8Eh	E44DL		93h
029C	668	E44EU		DBh	E44EM		8Eh
029E	670	E44EL		49h	E32AU		3Ah
02A0	672	E32AM		F6h	E32AL		2Eh
02A2	674	E32BU		B0h	E32BM		47h
02A4	676	E32BL		CFh	E32CU		22h
02A6	678	E32CM		89h	E32CL		1Bh
02A8	680	E32DU		4Fh	E32DM		B8h
02AA	682	E32DL		30h	E32EU		E2h
02AC	684	E32EM		80h	E32EL		E6h
02AE	686	reserved		FFh	CHECK-SUM		27h
02B0	688	GPDOU		0Fh	GPDO2		11h

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
02B2	690	GPDO3		B6h	48		9Dh
02B4	692	GPDFH		05h	50		0Ch
02B6	694	GPDF3		33h	52		5Dh
02B8	696	GADOH		14h	54		18h
02BA	698	GADO3		57h	56		E9h
02BC	700	GADFH		0Fh	58		F6h
02BE	702	GADF3		4Ch	60		16h
02C0	704	GDDOH		08h	62		00h
02C2	706	GDDO3		00h	64		00h
02C4	708	GDDFH		0Bh	66		4Ch
02C6	710	GDDF3		E0h	68		7Bh
02C8	712	GCDOH		09h	70		82h
02CA	714	GCDO3		0Dh	72		74h
02CC	716	GCDFH		0Bh	74		4Ch
02CE	718	GCDF3		E0h	80		7Bh
02D0	720	GaDOH		14h	82		18h
02D2	722	GaDO3		57h	84		E9h
02D4	724	GaDFH		07h	86		21h
02D6	726	GaDF3		48h	88		2Bh
02D8	728	reserved		2Bh	90		9Ah
02DA	730	0		FFh	92		FF
02DC	732	2		9Ah	94		FF
02DE	734	4		FFh	96		FF
02E0	736	6		FF	98		FF
02E2	738	8		FF	100		FF
02E4	740	10		FF	102		FF
02E6	742	12		FF	104		FF
02E8	744	14		FF	106		FF
02EA	746	16		FFh	108		FFh
02EC	748	18		FFh	110		FFh
02EE	750	20		FFh	112		FFh
02F0	752	22		FFh	114		FFh
02F2	754	24		FFh	116		FFh
02F4	756	26		FFh	118		FFh
02F6	758	28		FFh	120		FFh
02F8	760	30		FFh	122		FFh
02FA	762	32		FFh	124		FFh
02FC	764	34		FFh	126		FFh
02FE	766	36		FFh	128		FFh
0300	768	38		FFh	130		FFh
0302	770	40		FFh	132		FFh
0304	772	42		FFh	134		FFh
0306	774	44		FFh	136		FFh
0308	776	46		FFh	138		FFh

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
030A	778	RM32		FFh	RM33		FFh
030C	780	RM34		FFh	RM35		FFh
030E	782	RM36		FFh	RM37		FFh
0310	784	RM38		FFh	RM39		FFh
0312	786	RM40		FFh	RM41		FFh
0314	788	RM42		FFh	RM43		FFh
0316	790	RM44		FFh	RM45		FFh
0318	792	RM46		FFh	RM47		FFh
031A	794	RM48		FFh	RM49		FFh
031C	796	RM50		FFh	RM51		FFh
031E	798	RM52		FFh	RM53		FFh
0320	800	RM54		FFh	RM55		FFh
0322	802	RM56		FFh	RM57		FFh
0324	804	RM58		FFh	RM59		FFh
0326	806	RM60		FFh	RM61		FFh
0328	808	RM62		FFh	RM63		FFh
032A	810	RM64		FFh	RM65		FFh
032C	812	RM66		FFh	RM67		FFh
032E	814	RM68		FFh	RM69		FFh
0330	816	RM70		FFh	RM71		FFh

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
0332	818	RM72		FFh	RM73		FFh
0334	820	RM74		FFh	RM75		FFh
0336	822	RM76		FFh	RM77		FFh
0338	824	RM78		FFh	RM79		FFh
033A	826	RM80		FFh	RM81		FFh
033C	828	RM82		FFh	RM83		FFh
033E	830	RM84		FFh	RM85		FFh
0340	832	RM86		FFh	RM87		FFh
0342	834	RM88		FFh	RM89		FFh
0344	836	RM90		FFh	RM91		FFh
0346	838	RM92		FFh	RM93		FFh
0348	840	RM94		FFh	RM95		FFh
034A	842	RM96		FFh	RM97		FFh
034C	844	RM98		FFh	RM99		FFh
034E	846	RM100		FFh	RM101		FFh
0350	848	RM102		FFh	RM103		FFh
0352	850	RM104		FFh	RM105		FFh
0354	852	RM106		FFh	RM107		FFh
0356	854	RM108		FFh	RM109		FFh
0358	856	RM110		FFh	CHECK-SUM		EFh

[4] EEPROM List (Version: 02) (2/2)

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
035A	858	RM56		FFh	RM57		FFh
035C	860	RM58		FFh	RM59		FFh
035E	862	RM60		FFh	RM61		FFh
0360	864	RM62		FFh	RM63		FFh
0362	866	RM64		FFh	RM65		FFh
0364	868	RM66		FFh	RM67		FFh
0366	870	RM68		FFh	RM69		FFh
0368	872	RM70		FFh	RM71		FFh
036A	874	RM72		FFh	RM73		FFh
036C	876	RM74		FFh	RM75		FFh
036E	878	RM76		FFh	RM77		FFh
0370	880	RM78		FFh	RM79		FFh
0372	882	RM80		FFh	RM81		FFh
0374	884	RM82		FFh	RM83		FFh
0376	886	RM84		FFh	RM85		FFh
0378	888	RM86		FFh	RM87		FFh
037A	890	RM88		FFh	RM89		FFh
037C	892	RM90		FFh	RM91		FFh
037E	894	RM92		FFh	RM93		FFh
0380	896	RM94		FFh	RM95		FFh

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
0382	898	RM96		FFh	RM97		FFh
0384	900	RM98		FFh	RM99		FFh
0386	902	RM100		FFh	RM101		FFh
0388	904	RM102		FFh	RM103		FFh
038A	906	RM104		FFh	RM105		FFh
038C	908	RM106		FFh	RM107		FFh
038E	910	RM108		FFh	RM109		FFh
0390	912	RM110		FFh	RM111		FFh
0392	914	RM112		FFh	RM113		FFh
0394	916	RM114		FFh	RM115		FFh
0396	918	RM116		FFh	RM117		FFh
0398	920	RM118		FFh	RM119		FFh
039A	922	RM120		FFh	RM121		FFh
039C	924	RM122		FFh	RM123		FFh
039E	926	RM124		FFh	RM125		FFh
03A0	928	RM126		FFh	RM127		FFh
03A2	930	RM128		FFh	RM129		FFh
03A4	932	RM130		FFh	RM131		FFh
03A6	934	RM132		FFh	RM133		FFh
03A8	936	RM134		FFh	0		0

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
03AA	938	RM80		FFh	RM81		FFh
03AC	940	RM82		FFh	RM83		FFh
03AE	942	RM84		FFh	RM85		FFh
03B0	944	RM86		FFh	RM87		FFh
03B2	946	RM88		FFh	RM89		FFh
03B4	948	RM90		FFh	RM91		FFh
03B6	950	RM92		FFh	RM93		FFh
03B8	952	RM94		FFh	RM95		FFh
03BA	954	RM96		FFh	RM97		FFh
03BC	956	RM98		FFh	RM99		FFh
03BE	958	RM100		FFh	RM101		FFh
03C0	960	RM102		FFh	RM103		FFh
03C2	962	RM104		FFh	RM105		FFh
03C4	964	RM106		FFh	RM107		FFh
03C6	966	RM108		FFh	RM109		FFh
03C8	968	RM110		FFh	RM111		FFh
03CA	970	RM112		FFh	RM113		FFh
03CC	972	RM114		FFh	RM115		FFh
03CE	974	RM116		FFh	RM117		FFh
03D0	976	RM118		FFh	RM119		FFh

ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
03D2	978	RM120		FFh	RM121		FFh
03D4	980	RM122		FFh	RM123		FFh
03D6	982	RM124		FFh	RM125		FFh
03D8	984	RM126		FFh	RM127		FFh
03DA	986	RM128		FFh	RM129		FFh
03DC	988	RM130		FFh	RM131		FFh
03DE	990	RM132		FFh	RM133		FFh
03E0	992	RM134		FFh	RM135		FFh
03E2	994	RM136		FFh	RM137		FFh
03E4	996	RM138		FFh	RM139		FFh
03E6	998	RM140		FFh	RM141		FFh
03E8	1000	RM142		FFh	RM143		FFh
03EA	1002	RM144		FFh	RM145		FFh
03EC	1004	RM146		FFh	RM147		FFh
03EE	1006	RM148		FFh	RM149		FFh
03F0	1008	RM150		FFh	RM151		FFh
03F2	1010	RM152		FFh	RM153		FFh
03F4	1012	RM154		FFh	RM155		FFh
03F6	1014	RM156		FFh	RM157		FFh
03F8	1016	RM158		FFh	0		0

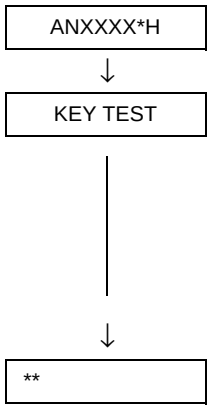
ADDRESS		+00H			+01H		
HEX		ITEM		CODE	ITEM		CODE
03FA	1018	RM104		FFh	RM105		FFh
03FC	1020	RM106		FFh	RM107		FFh
03FE	1022	RM108		FFh	RM109		FFh

NOTES:
(1) Use an attached HEX format file for setup of data to EEPROM writer.
(2) EEPROM currently used for this model is made in CATALYST. It is CAT24WC05YI.

[5] KEY / LED Check Mode

Display of 7-segment LED and each single LED

Transition during start-up



Test mode route state
(Input select key)

Using FUNCTION key select “KEY TEST”

Press Volume (–) / (+) key to enter KEY TEST

Press key according to below check key response or LED light-up table

KEY	FL DISPLAY
FUNCTION + VOLUME (–)	FL all light-up LED light-up
FUNCTION	KEY 1-1
VOLUME +	KEY 1-2
VOLUME –	KEY 1-3

Press POWER key to return to Test Mode route state.

[6] Quick Volume Change Mode

Purpose

The purpose of this mode is inspection time shortening in the production.

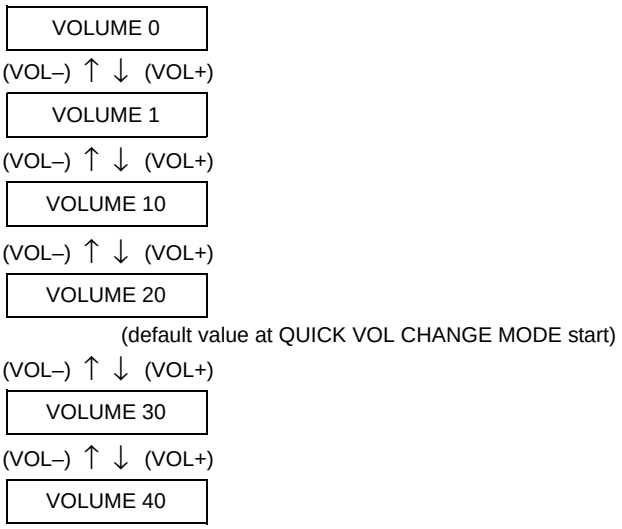
This mode is the same as the USER MODE except for the volume operation.

Volume operation in this mode becomes a change in a step only to the necessary position in inspection process.

The specification of operation

Main volume operation at QUICK VOL CHANGE MODE

Only the following position of volume can be set up in this mode.



NOTES:

(1) About operation specification of "VOL +/– key".

(2) A difference from this mode and the user mode is only a possible volume steps and initial value after the mode start.

[7] Tuner Test Mode

Outline

This Test Mode control are same with Normal Power-ON, only Power-ON in TUNER function.

After Power-ON the operation and display are same but the TUNER preset already memory as table below.

TEST Mode Operation

Set will Power-ON same process like user Power-ON, but direct to TUNER Function Preset No. 1 of table below.

Set Preset Memory will be set as below table.

Destination		EU（H）
Preset Memory No.	P1	87.50M
	P2	108.00M
	P3	90.00M
	P4	106.00M
	P5	98.00M
SPAN		50K/9K

Key operation after Power ON are same with User Power-ON.

* When Test Mode end, Tuner Preset Memory will be initialize. Others Memory initialize is not neccesry.

[8] ASPM Test Mode (For EU Destination)

Outline

At Tuner RDS ASPM operation need to be confirm for EU(H) model only.

Power-ON in TUNER function, and scanning frequency from 105.00MHz - 108.00MHz.

And RDS station Preset Memory maximum 3 station.

TEST Mode Operation

Power ON in TUNER Function 106.50MHz FM Stereo Band. At same time Only Preset No. ch1 - ch3 leave blank and all ch4 - ch40 memory at 87.50MHz FM Stereo Band.

With the press of ASPM key, ASPM operation will start at 105.00MHz frequency.

If RDS station received Preset will memory from ch1. (There is no need to memory PS name in ASPM Test Mode. If preset change during Test Mode Frequency will be display first)

Scan will stop after reach frequency 108.00MHz, and return to frequency 106.50MHz FM Stereo.

To confirm Memory content display will show Preset Number and frequency for ch1until ch3. After display are confirmed frequency will return to 106.50MHz FM STEREO. (Display method same with Tuner display during Normal POWER ON.)

If ASPM key is press again, ASPM operation will start from ② untill ⑤.

While scanning if 3 station memorized, Scanning will stop and operation ④ and ⑤ will take place.

Afterward, even if ASPM key input detect ASPM operation will not be execute. "__END__" displayed and operation canceled.

Additional

Other then above, operation for ASPM are same with User operation. So, when 1st time scan with same PI code Station with most strong signal will be memory and will not be memory many time. For 2nd and more station with same frequency will not be memory.

But, if different station with same PI code (same PI with different frequency station), station one with most strong signal will be memory.

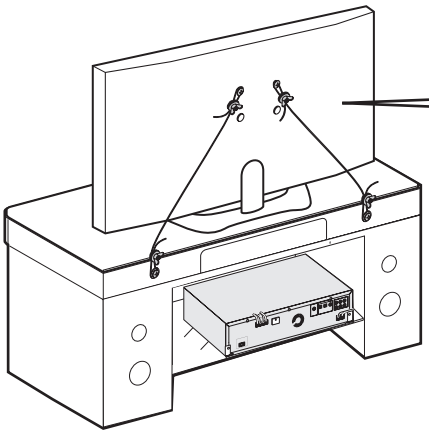
So, station that already memorized before scan will be ignore. Therefore, even station with same same PI code after 3 times ASPM scan, It is possible that, 3 station will be memorized in Signal Strong order.

After Test Mode end only Tuner preset memory will be reset and set to default. Ohers Memory, no need to be initialize.

CHAPTER 3. MECHANISM BLOCKS

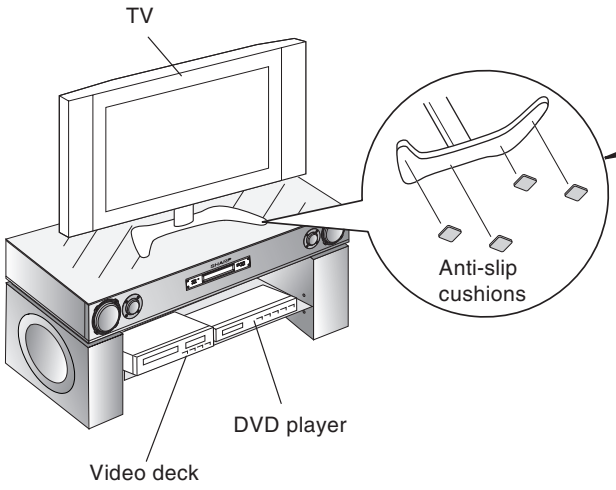
[1] Before Disassembly

It is advisable for the main unit to be carried by 2 person.



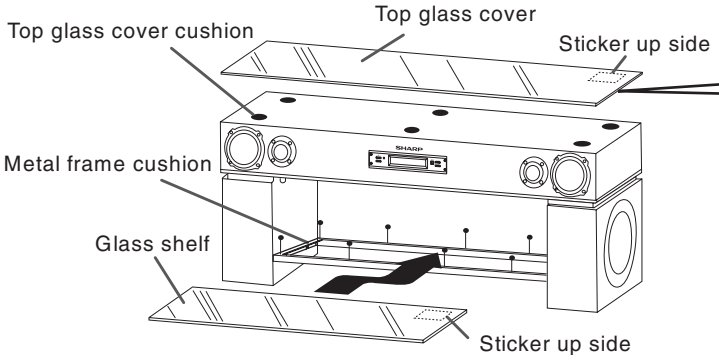
1. If safety wires are used to prevent TV from falling off , please remove them.

Caution : Follow the operation manual instructions to reinstall equipment.



2. Before moving the TV away , please ensure that the anti-slip cushions underneath it have been taken out

Caution : Anti-slip cushion must be remove to prevent the top glass cover from falling as it might stick to the TV during shifting.



3. Remove the top glass cover

Caution : It is adviseable for the top glass cover to be carried by 2 persons.

[2] Disassembly Method

Caution on disassembly

Follow the below-mentioned notes disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
2. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
3. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Main Unit	1. Screw..... (A1) X 6 2. Socket..... (A2) X 4 3. Lug..... (A3) X 1	1
2	Front frame ass'y with Display PWB	1. Decoration Panel..... (B1) X 1 2. Screw..... (B2) X 4 3. Screw..... (B3) X 2 4. Socket..... (B4) X 3	2
3	Display PWB	1. Screw..... (C1) X 4	3
4	Subwoofer L-CH/R-CH	1. Subwoofer Net Ass'y .. (D1) X 1 2. Screw..... (D2) X 4	4
5	Woofer L-CH/R-CH	1. Woofer Grill Ass'y..... (E1) X 1 2. Screw..... (E2) X 4 3. Screw..... (E3) X 4	5
6	Tweeter L-CH/R-CH	1. Tweeter Grill Ass'y..... (F1) X 1 2. Screw..... (F2) X 4 3. Screw..... (F3) X 2	5
7	Top Cabinet	1. Screw..... (G1) X 9	6
8	Rear Panel with Tuner Pack and Fan Motor	1. Screw..... (H1) X 8 2. Socket..... (H2) X 2 3. Flat Cable ..... (H3) X 1	7 7,8 7
9	Re-fresh Micom PWB	1. Screw..... (J1) X 1	8
10	Main PWB	1. Screw..... (K1) X 3 2. Socket..... (K2) X 4	9
11	Power PWB	1. Screw..... (L1) X 6 2. Socket..... (L2) X 3	10
12	Transmit PWB	1. Screw..... (M1) X 4	10
13	Subwoofer PWB	1. Screw..... (N1) X 4	11
14	Amplifier PWB	1. Screw..... (P1) X 4	11

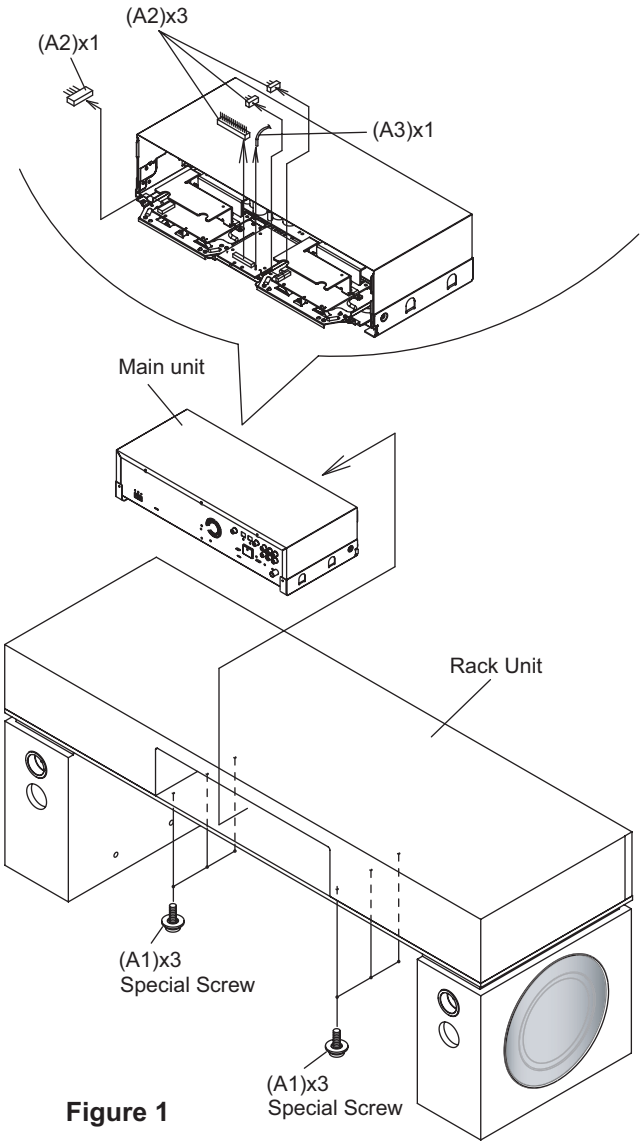


Figure 1

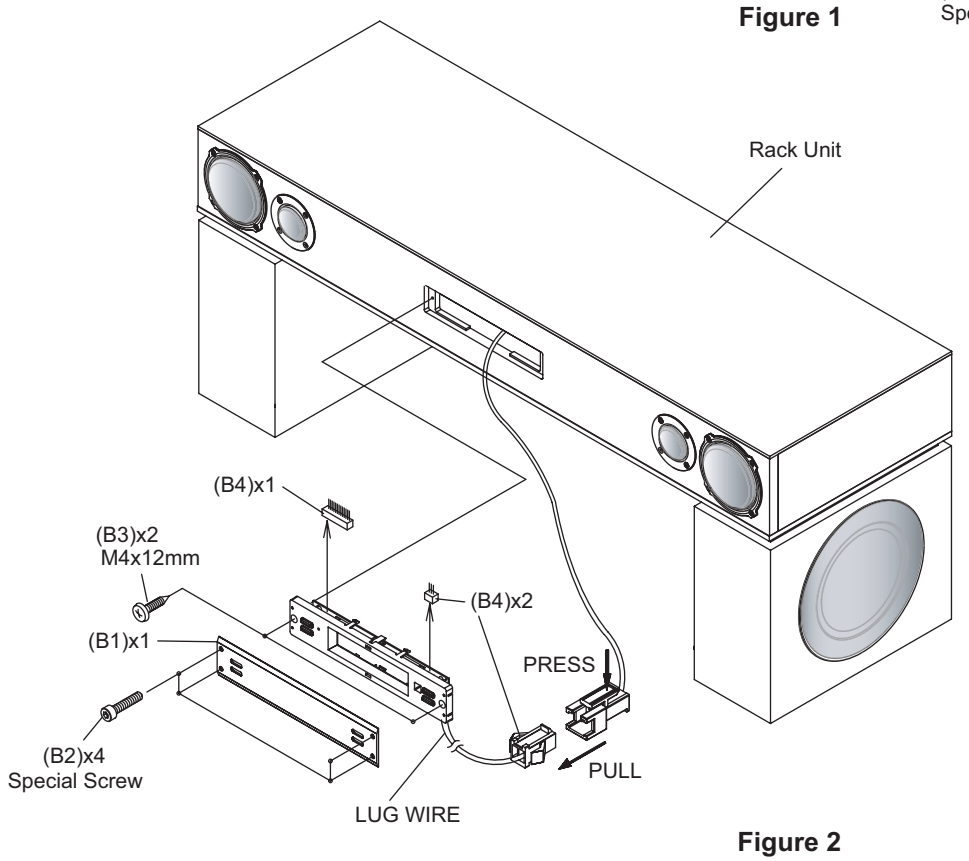


Figure 2

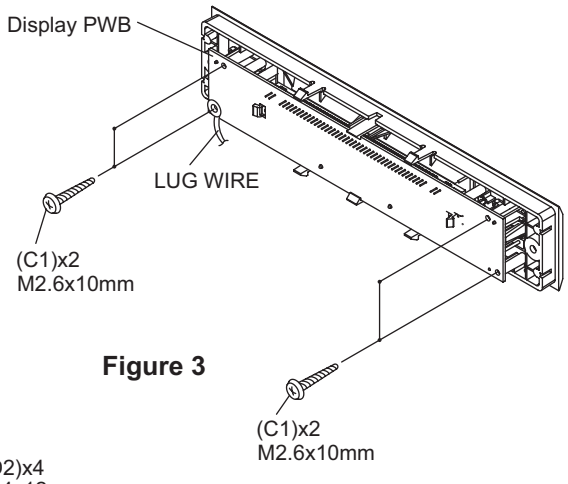


Figure 3

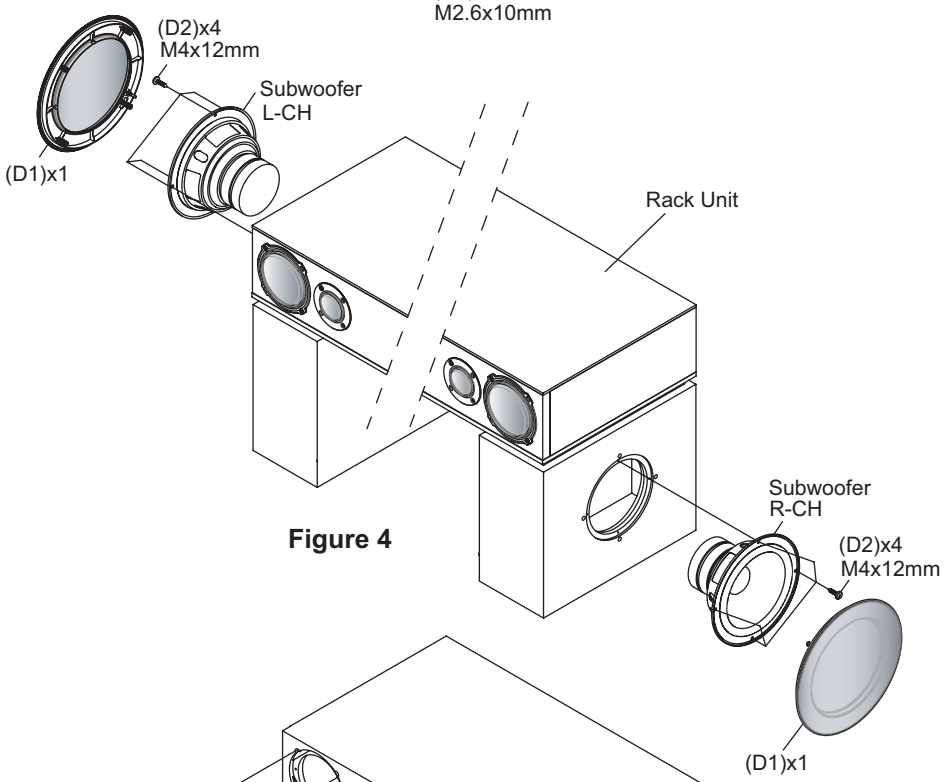


Figure 4

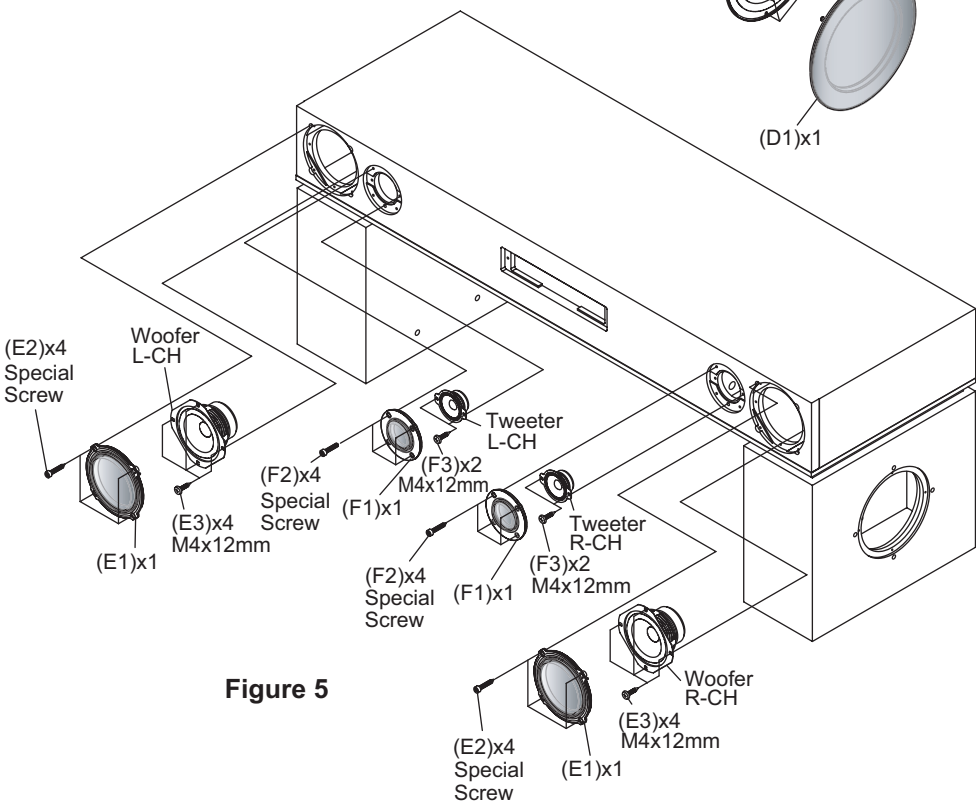


Figure 5

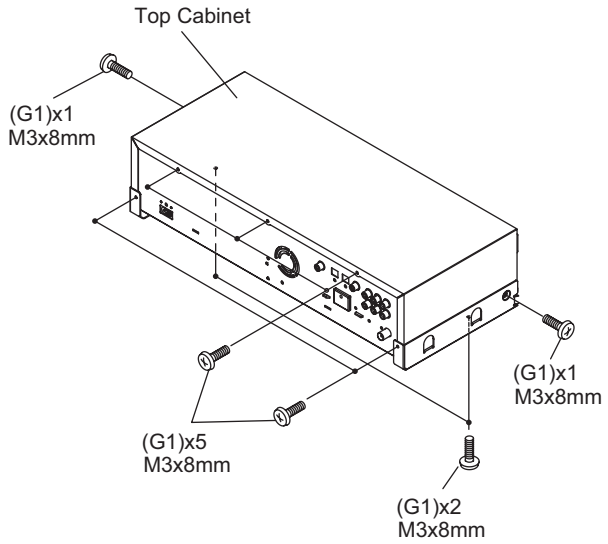


Figure 6

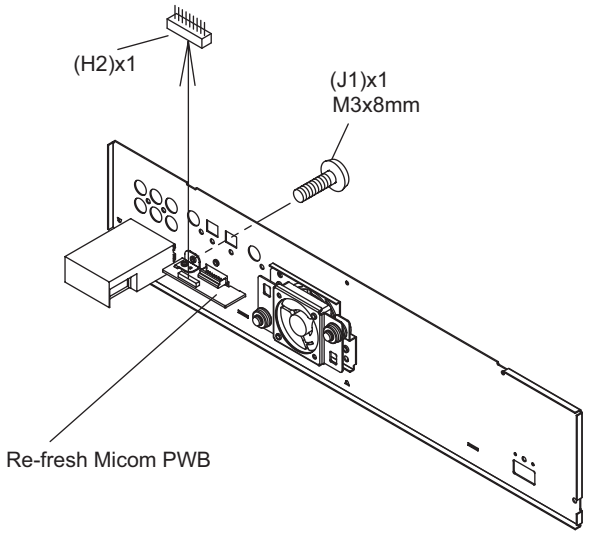


Figure 8

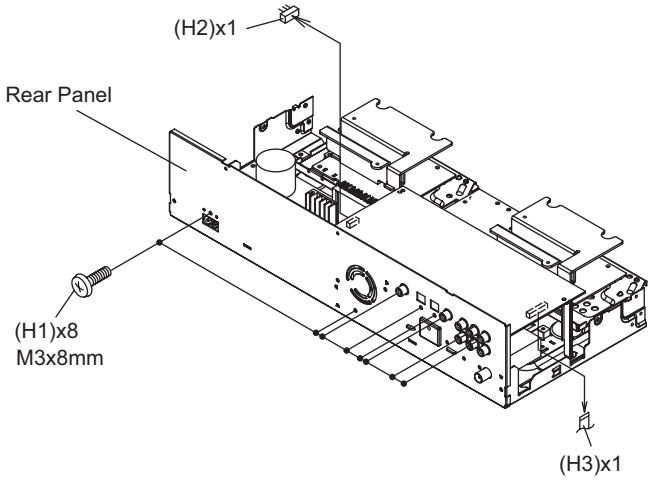


Figure 7

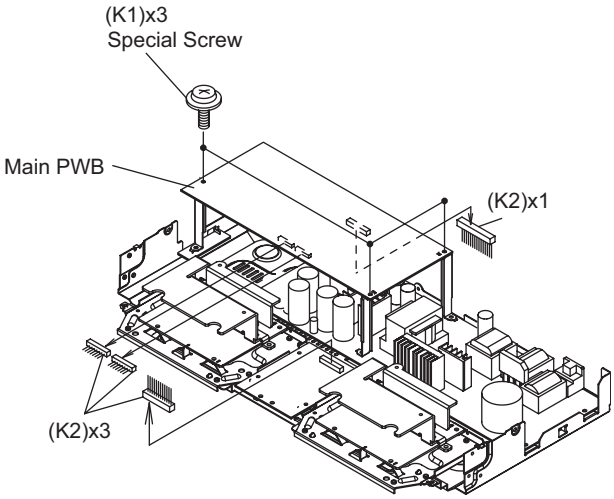


Figure 9

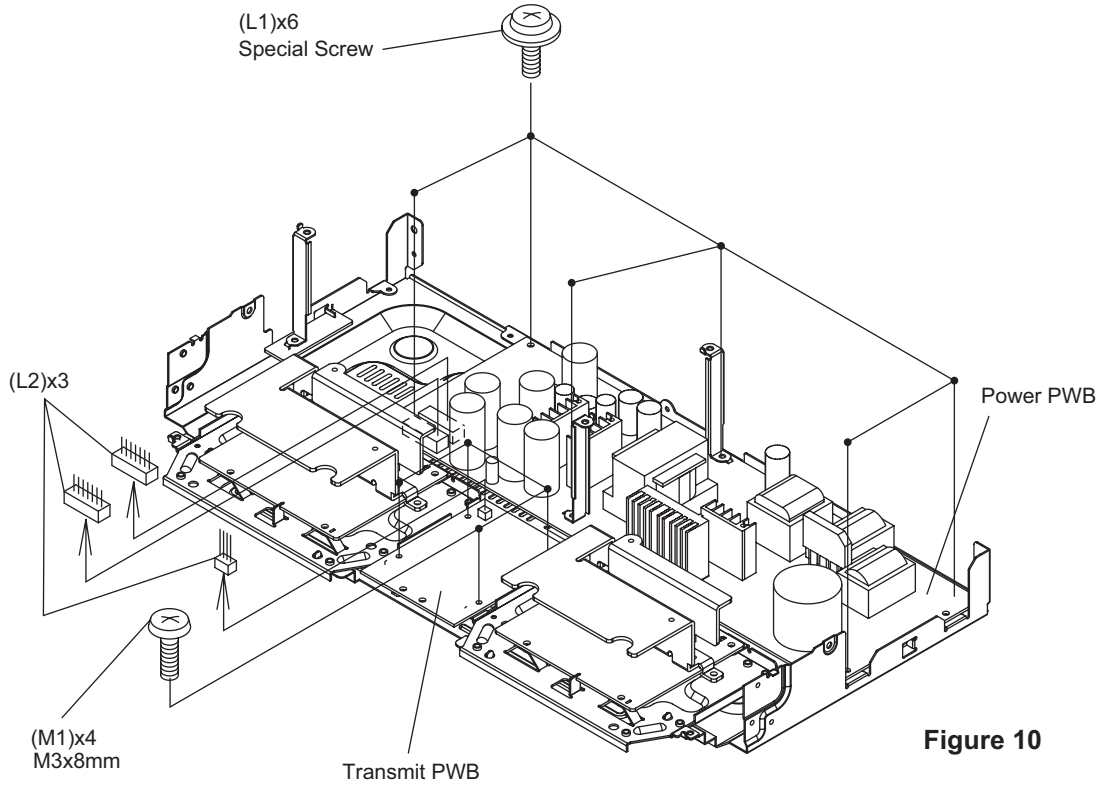


Figure 10

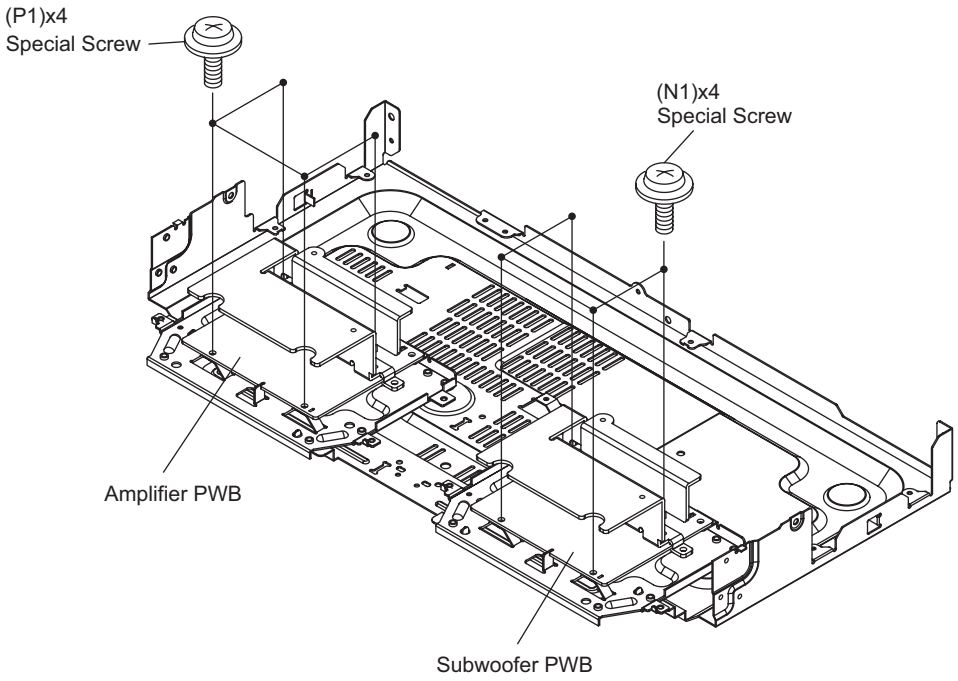


Figure 11

-MEMO-

CHAPTER 4. DIAGRAMS

[1] Main Block Diagrams

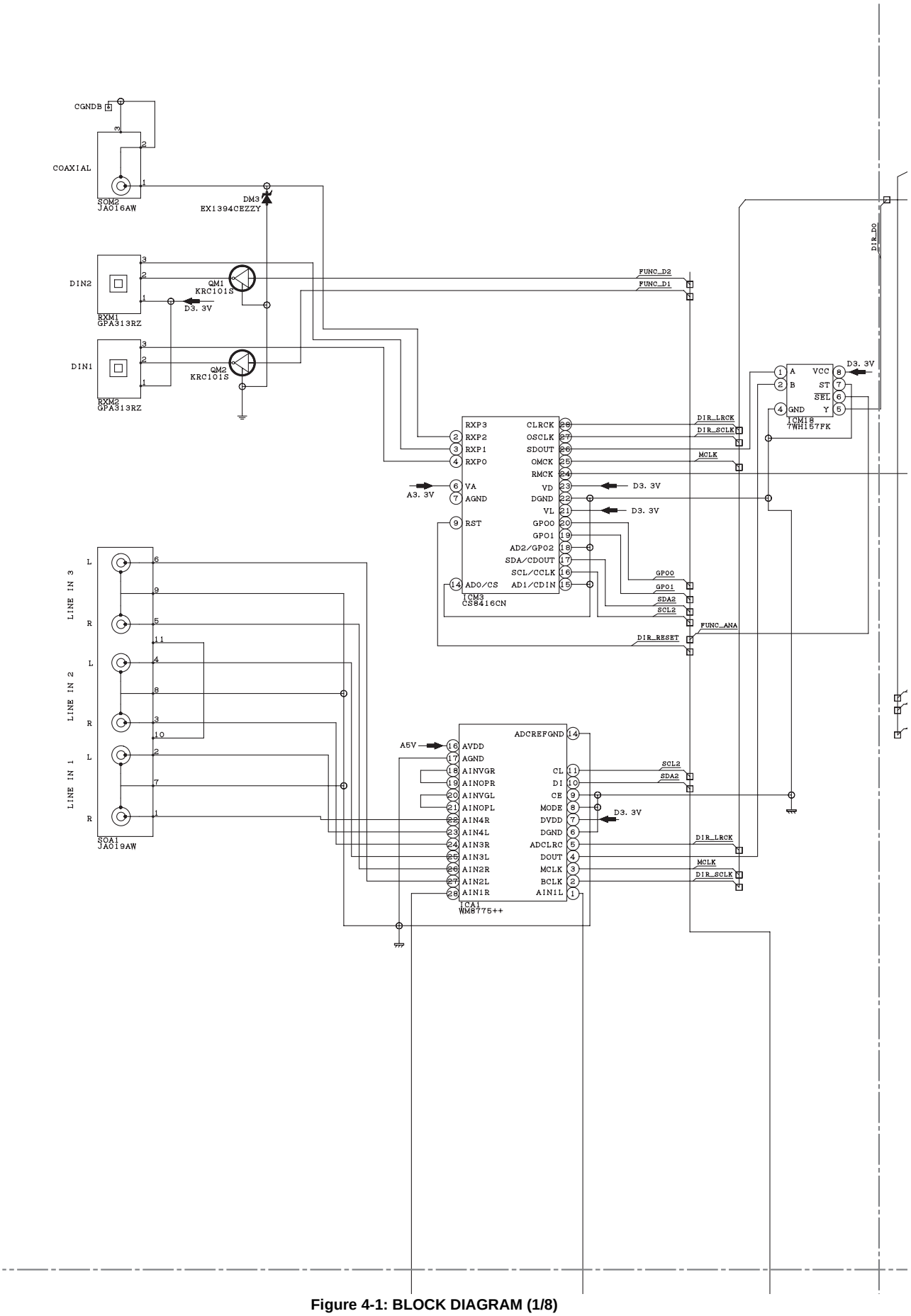


Figure 4-1: BLOCK DIAGRAM (1/8)

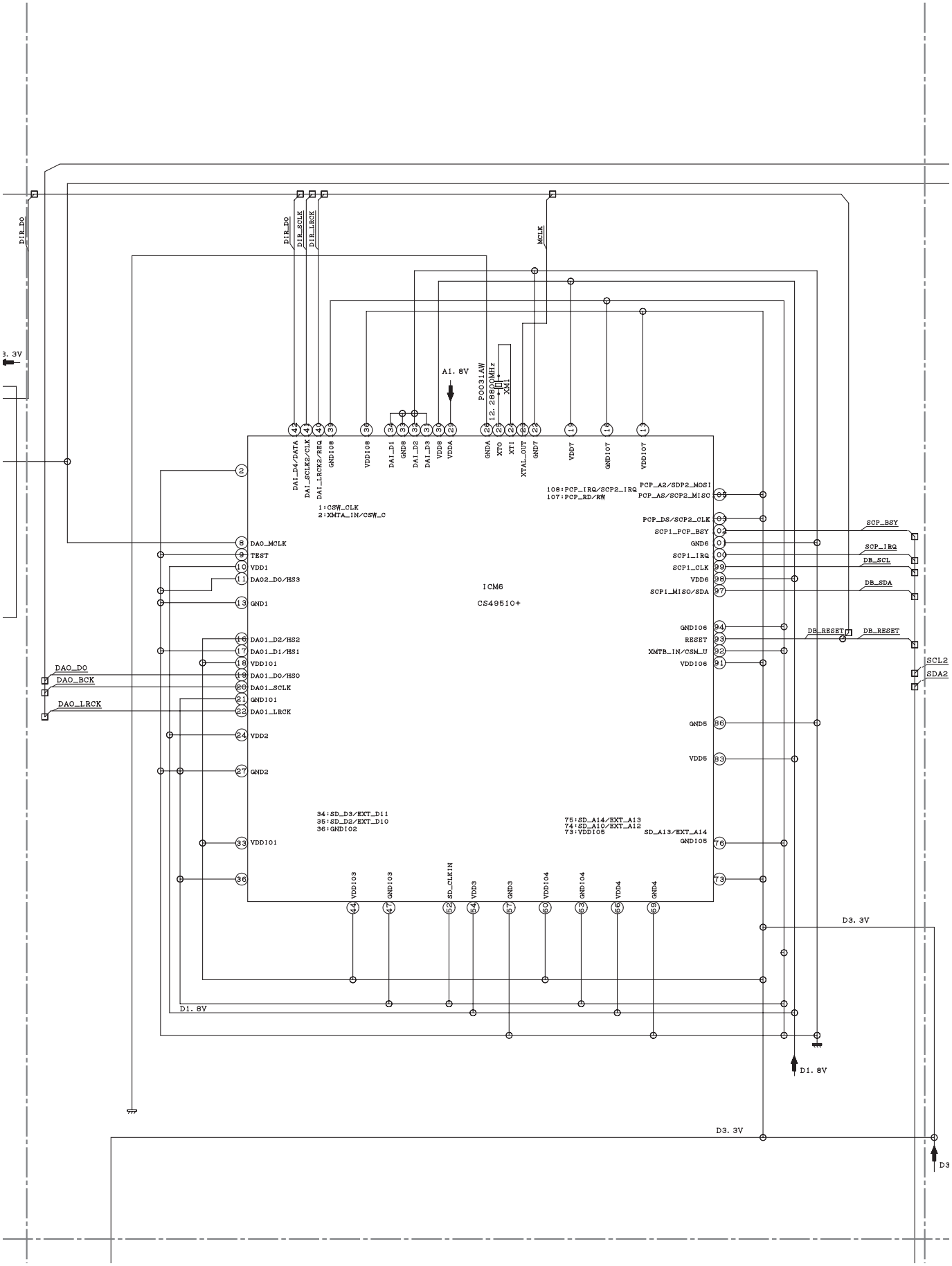


Figure 4-2: BLOCK DIAGRAM (2/8)

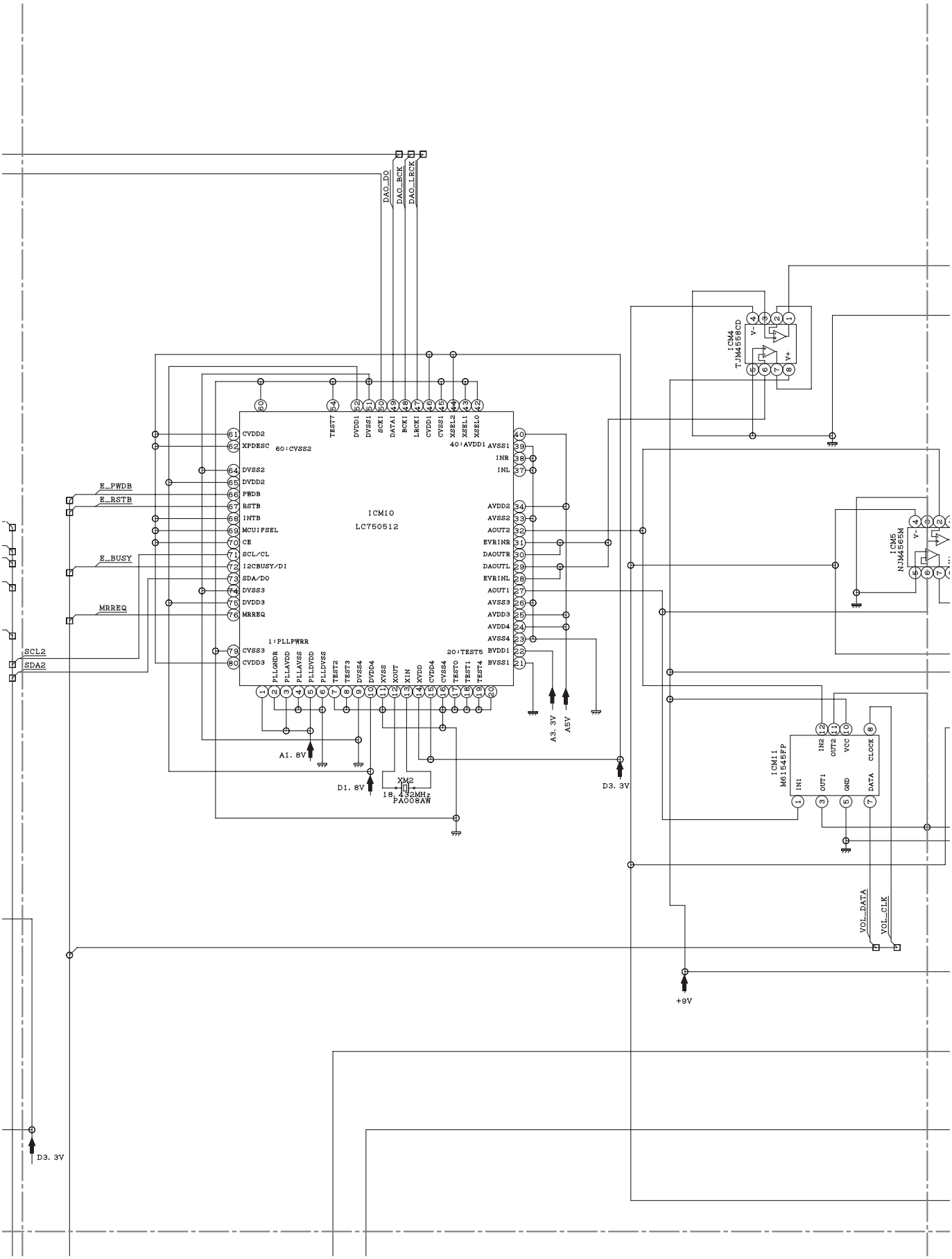


Figure 4-3: BLOCK DIAGRAM (3/8)

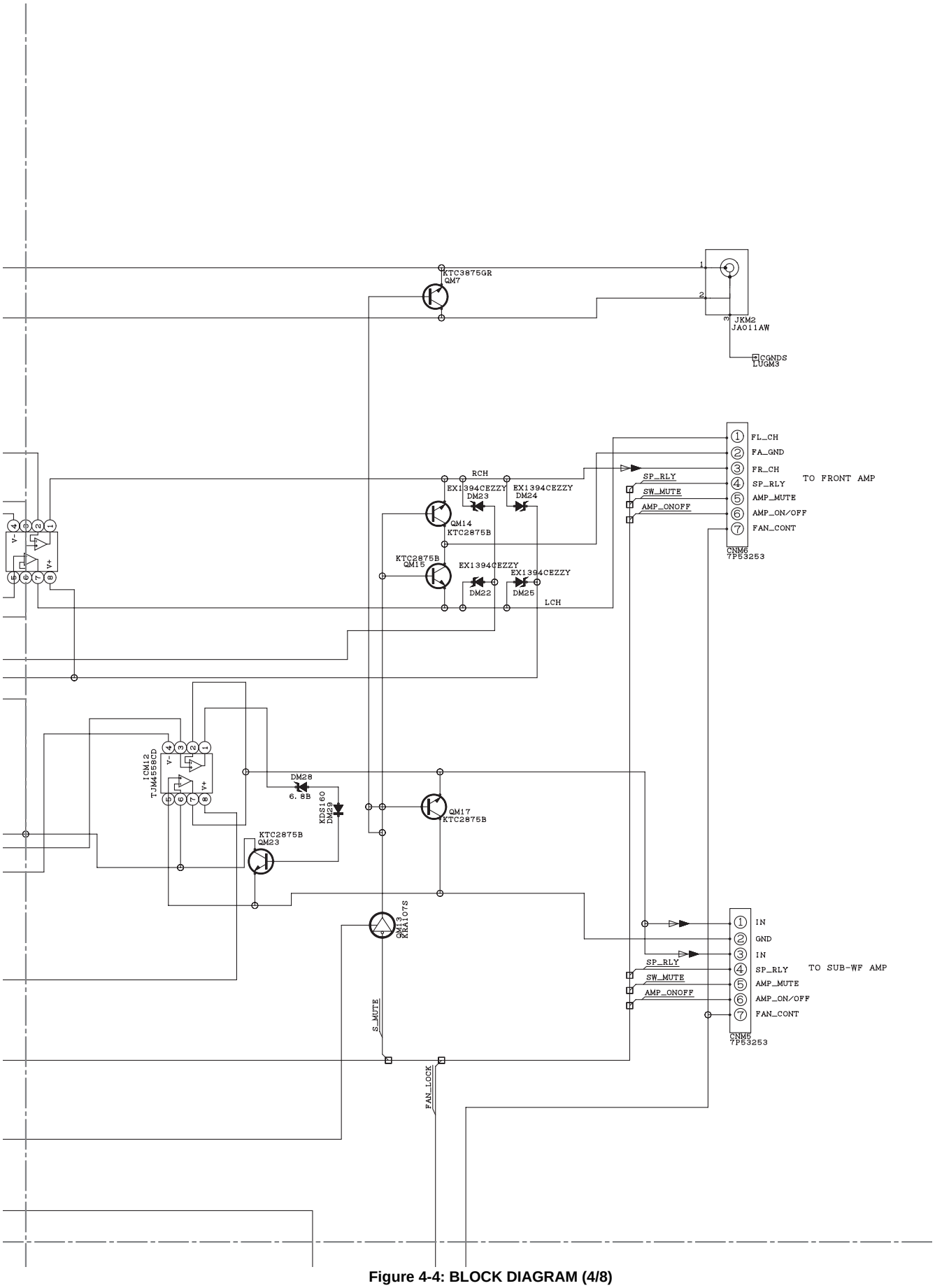


Figure 4-4: BLOCK DIAGRAM (4/8)

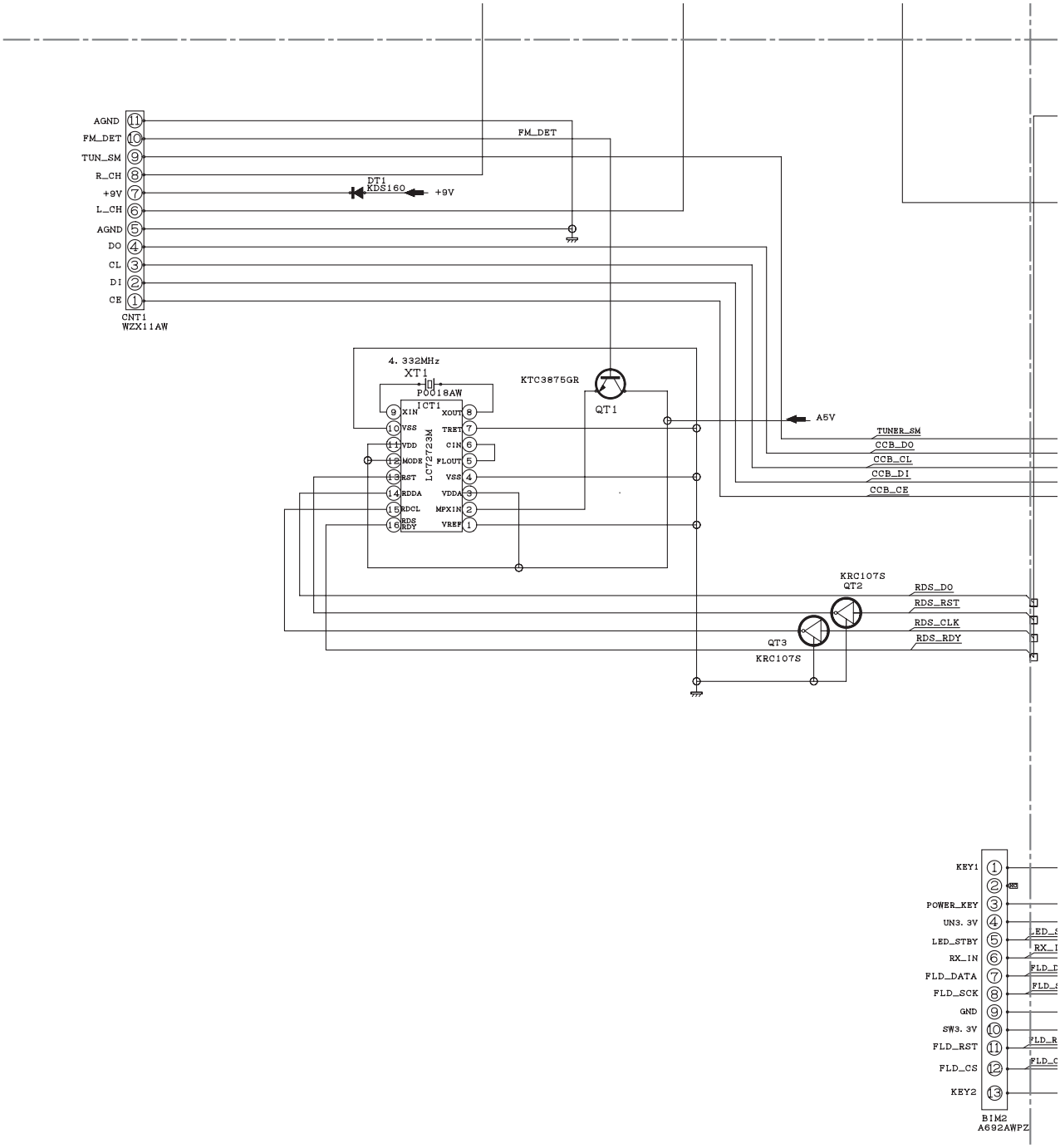


Figure 4-5: BLOCK DIAGRAM (5/8)

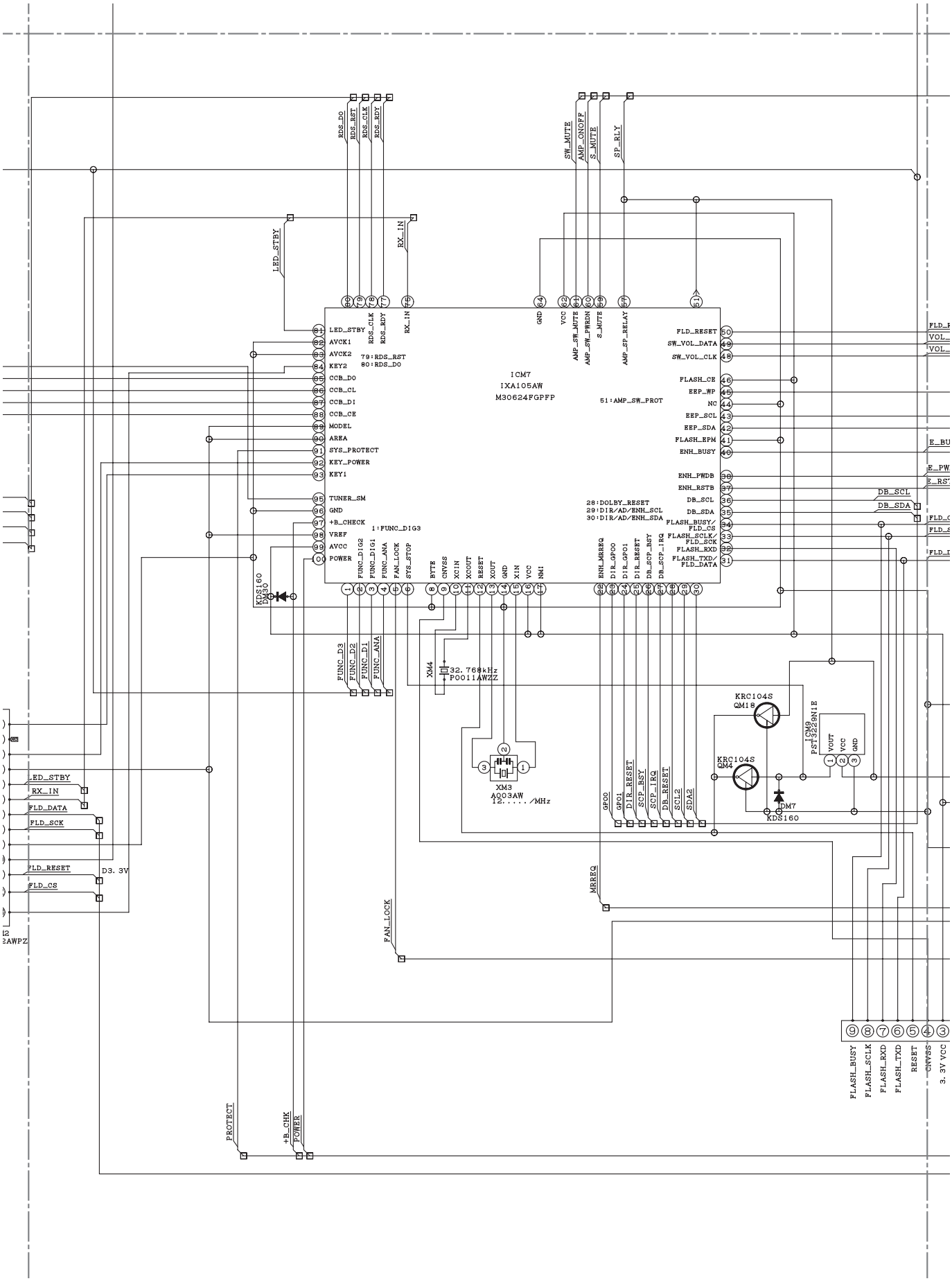


Figure 4-6: BLOCK DIAGRAM (6/8)

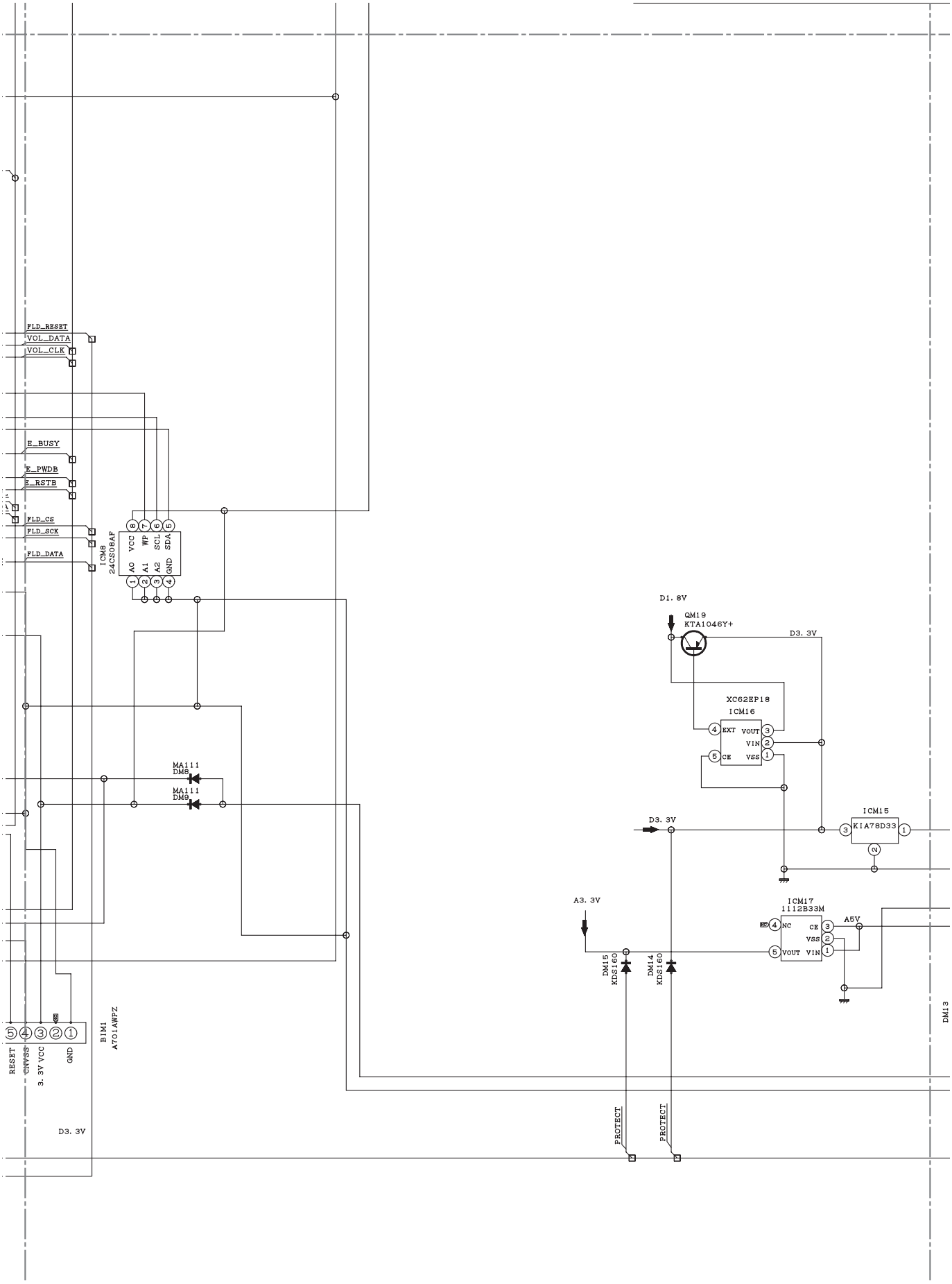


Figure 4-7: BLOCK DIAGRAM (7/8)

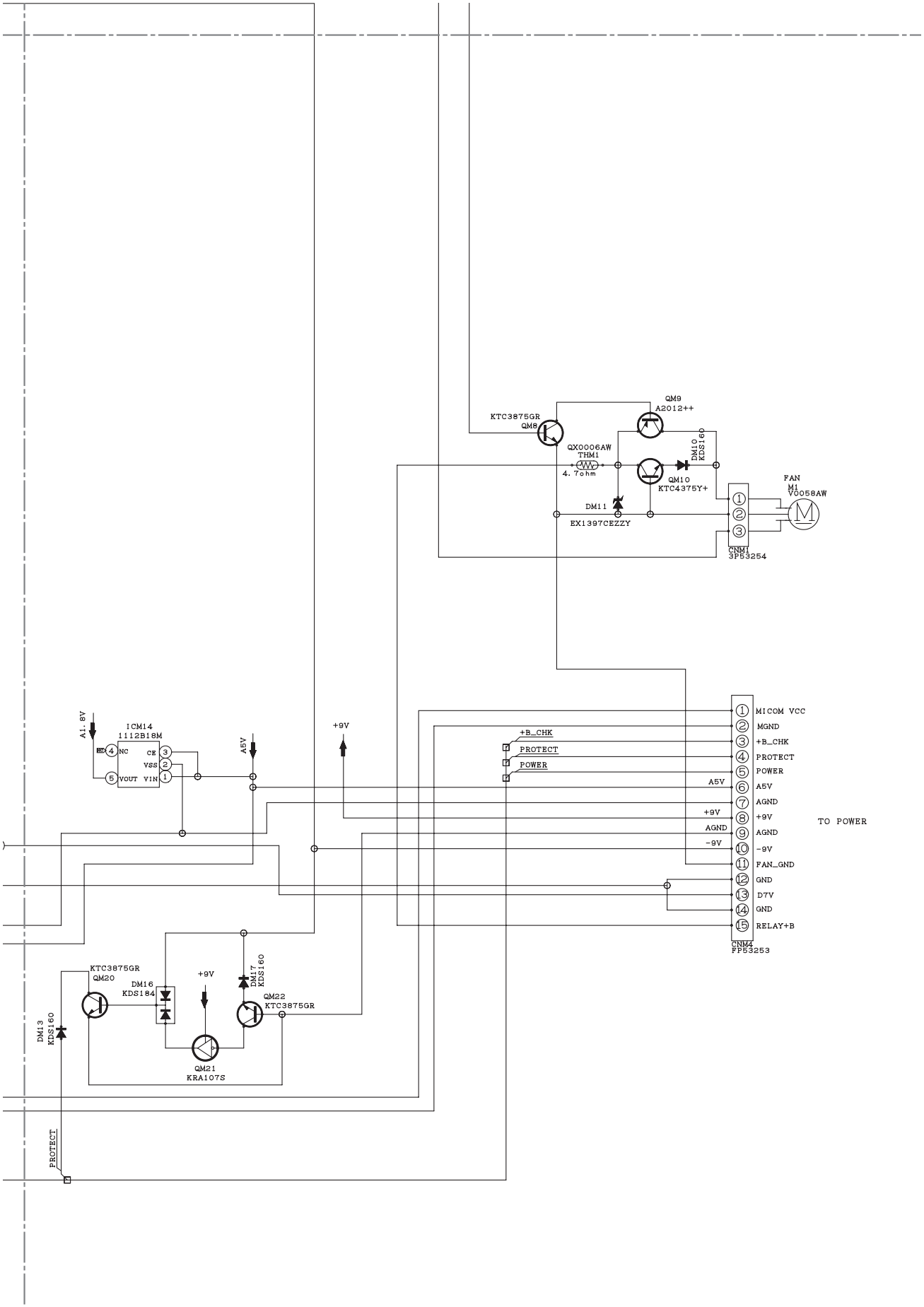


Figure 4-8: BLOCK DIAGRAM (8/8)

[2] Power Block Diagrams

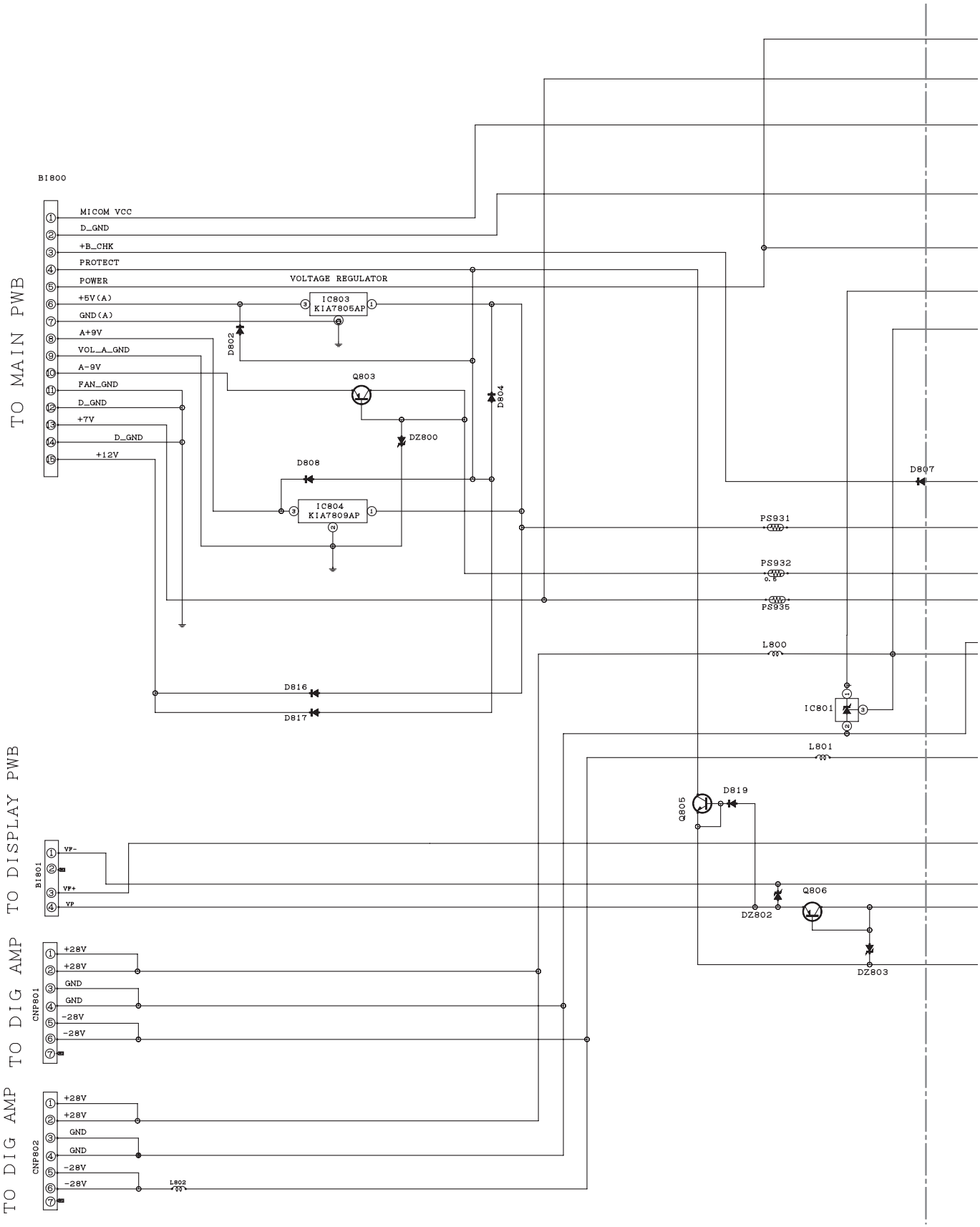


Figure 4-9: POWER BLOCK DIAGRAM (1/2)

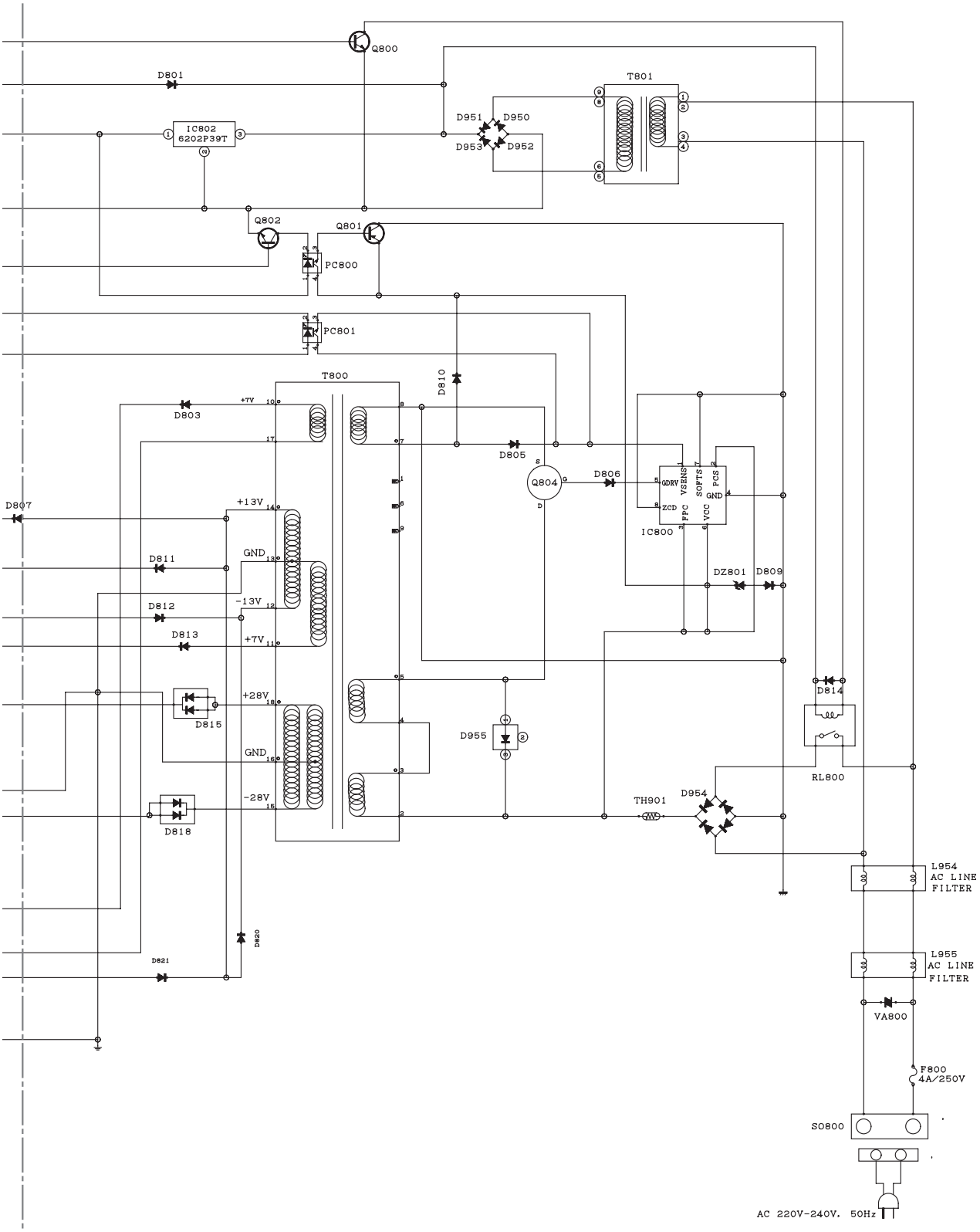


Figure 4-10: POWER BLOCK DIAGRAM (2/2)

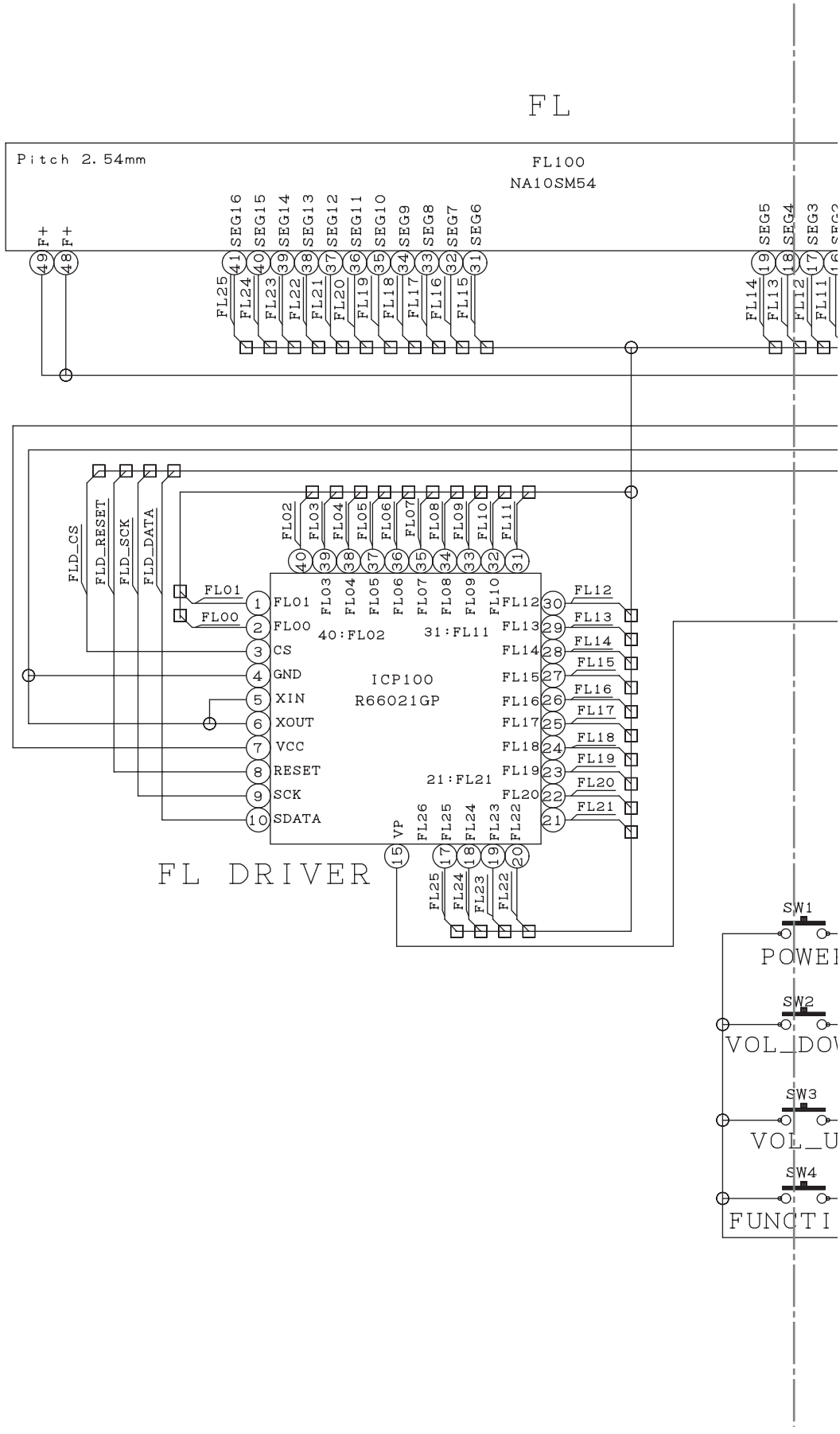


Figure 4-11: DISPLAY BLOCK DIAGRAM (1/2)

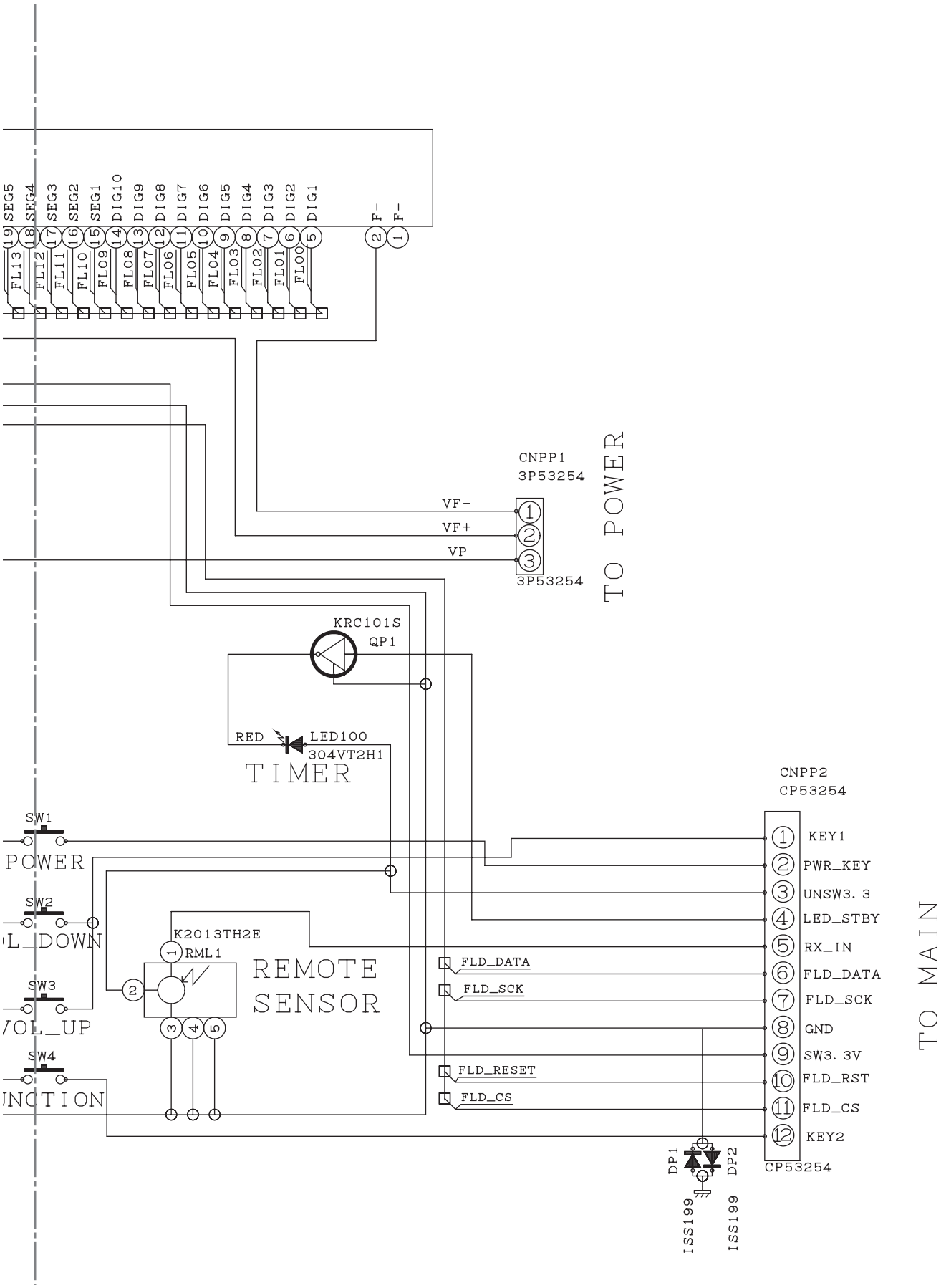


Figure 4-12: DISPLAY BLOCK DIAGRAM (2/2)

[4] Amplifier Block Diagram

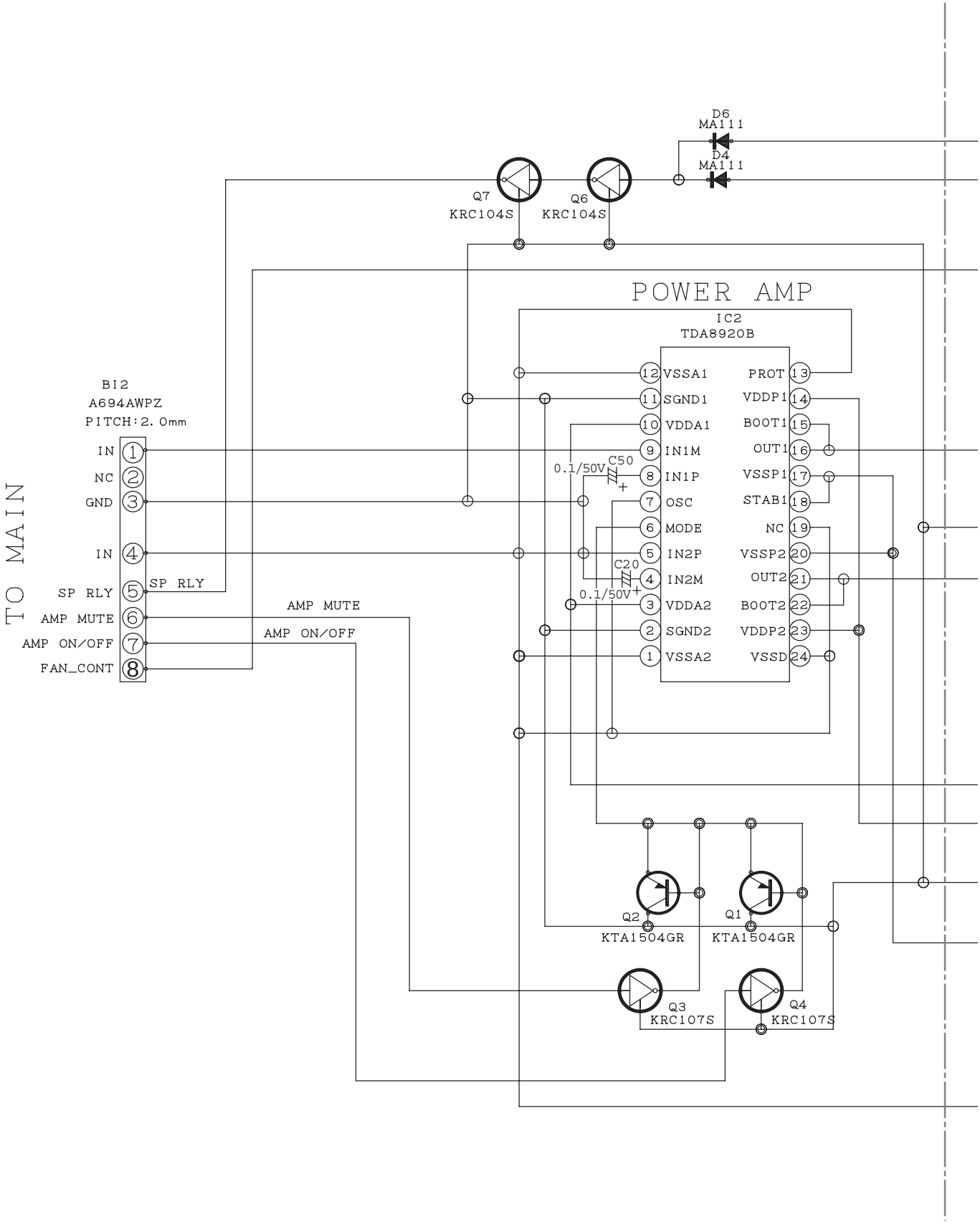


Figure 4-13: AMPLIFIER BLOCK DIAGRAM (1/2)

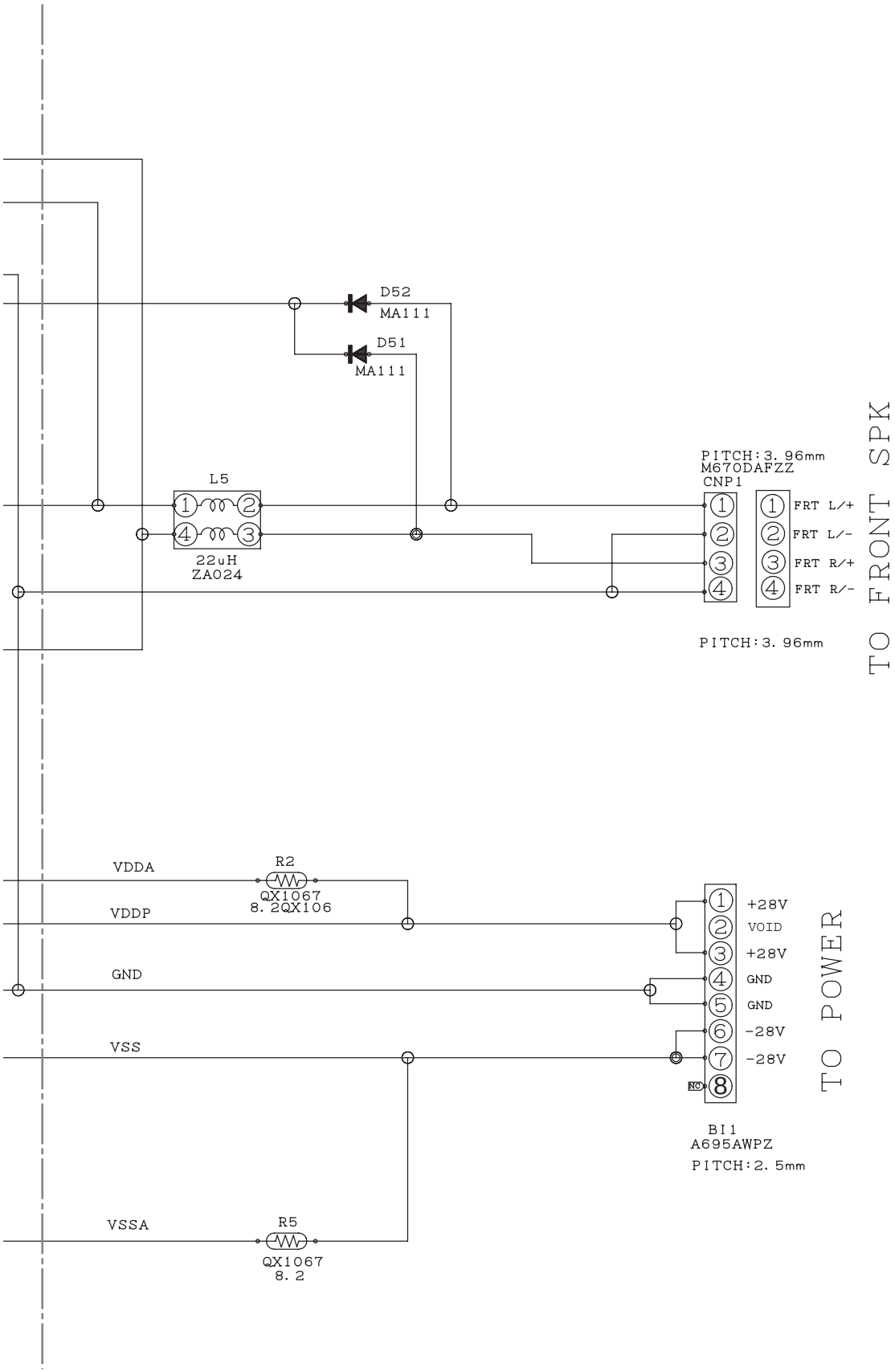


Figure 4-14: AMPLIFIER BLOCK DIAGRAM (2/2)

[5] Sub Woofer Block Diagram

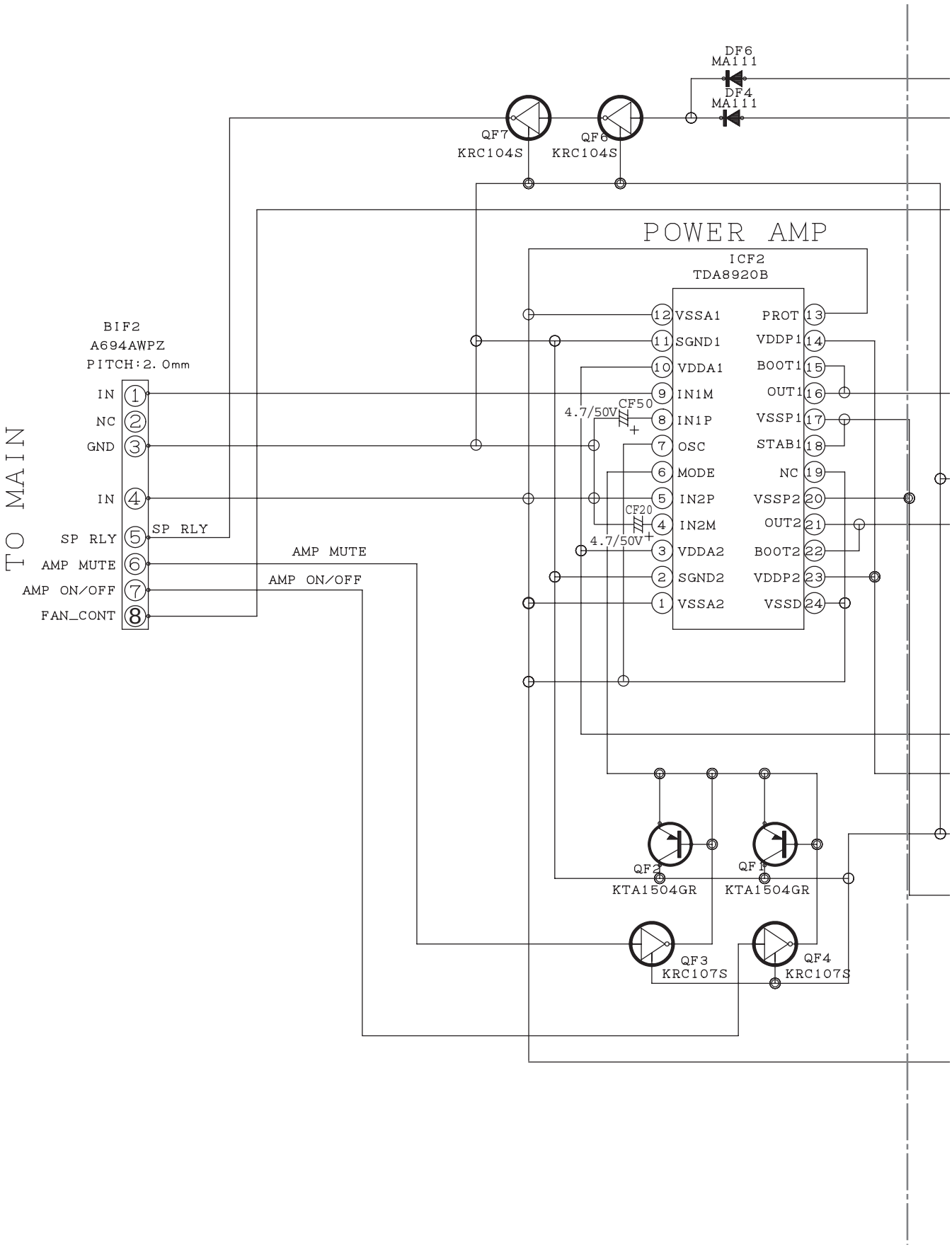


Figure 4-15: SUB WOOFER BLOCK DIAGRAM (1/2)

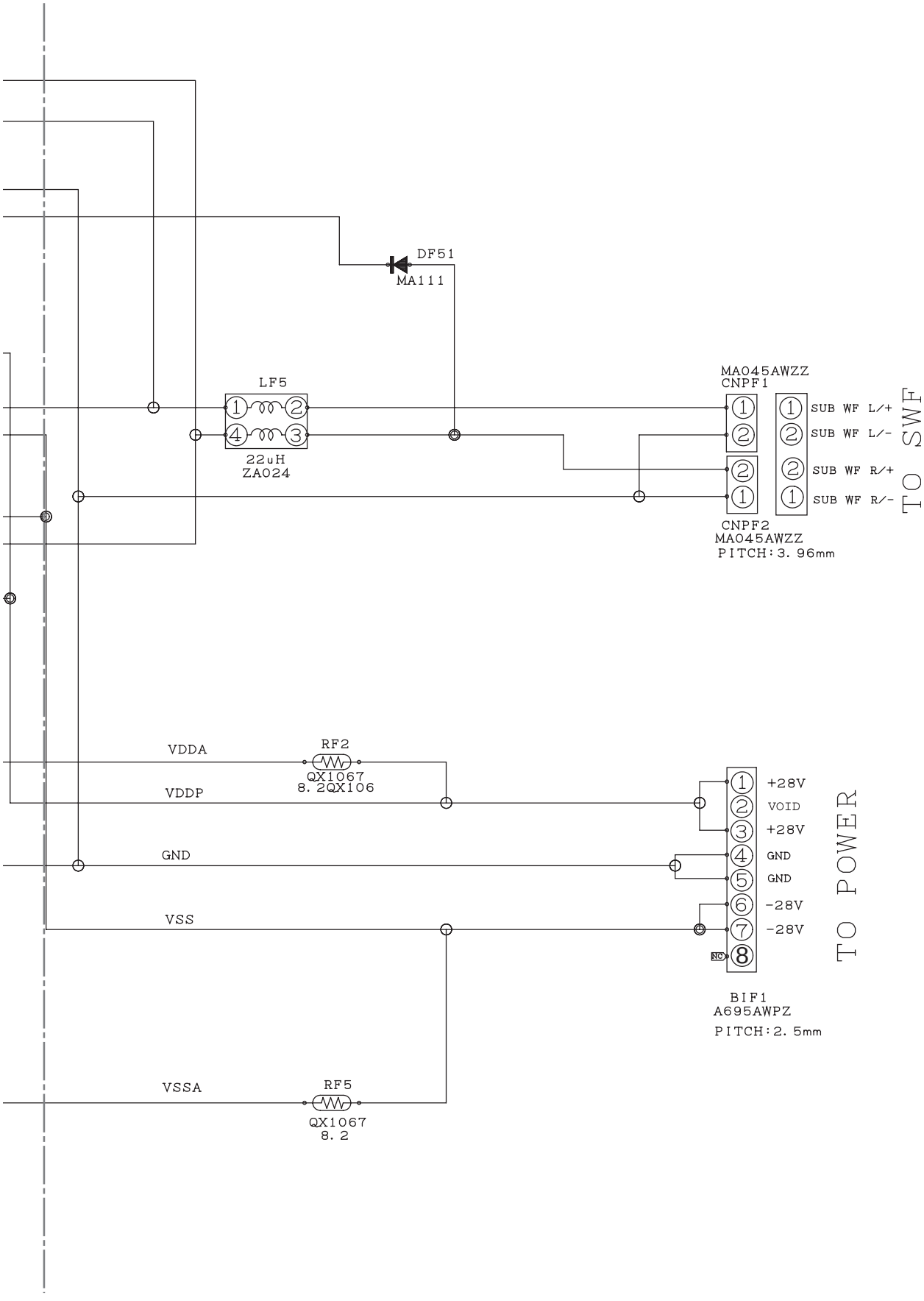


Figure 4-16: SUB WOOFER BLOCK DIAGRAM (2/2)

CHAPTER 5. CIRCUIT DESCRIPTION

[1] To Check And Cancel Protect Circuit Detection Line

1. After the power is turned on, the microprocessor (ICM7) built in this model continuously monitors the following defective operation. If any abnormality occurs, all power is shut down except in the microprocessor drive circuit.

   1) An abnormal drop of each regulator output voltage.
   (The protection circuit operates when the regulator output voltage is below 1.5 V.) The power is shut down immediately with no display.

   2) Defect of the cooling fan motor and the cooling fan drive circuit.
   (Stoppage, etc.) The power is turned off after “FAN LOCK” is displayed.

   3) Over voltage or reduced voltage of power supply.
   The power is shut down immediately with no display when voltage is abnormal.

2. Failure detection conditions of the built-in microprocessor, check of the detection line and solution.

Conditions

1) To detect failure according to voltage of the microprocessor ICM7 pin 91.
2) Abnormal if pulse signals are not input into the pin 5 (FAN LOCK) for more than 5 seconds.
3) Abnormal if the voltage of the pin 97 (+B CHECK) is lower than 1.2 V or higher than 3.0 V.

1. Check of the detection line and solution

NOTE: If the microprocessor detects failures of 1), 2) and 3) above, it does not operate protectively when its PROTECT, and +B CHECK detection lines are disconnected.
When these failures are caused by output short-circuit of each regulator, components and PWB of the regulator may burn out. If the cause is not clear, do not disconnect the detection line.

(Even if any failure is detected, conduction is available for 0.5 second. You can check conduction by an oscilloscope, etc. However, a tester is not available due to rapid rise and decay of voltage.)

1. When output voltage of each regulator drops abnormally.

Connect the oscilloscope to the regulated output of the regulator and power on the system. If the voltage is significantly lower than that shown in the circuit diagram (approx. 1.5 V or less), the regulator itself and the destination circuit are suspected.

[2] Failure Detection Identification Using STANDBY LED

1. Identification format using STANDBY LED

If any failure is detected, STANDBY LED blinks red after power off (see Fig. 1 below). You can identify the failure state by checking which LED output number from the frame head is blinking 4 times each for 2 seconds.

Fig. 1 shows the LED output No. 2. is blinking due to failure.

Normally, LED light up for 2 seconds and light off for 1 second on a 3-second cycle (6 times from No. 1 to No. 6). For No.7, LED light off for 3 seconds, showing the frame end (for recognition of the frame head).

In No. 2, LED blinks alternately at shorter intervals than usual for failure identification. For failure status, refer to the appendix, “STAND-BY LED Error Message”.

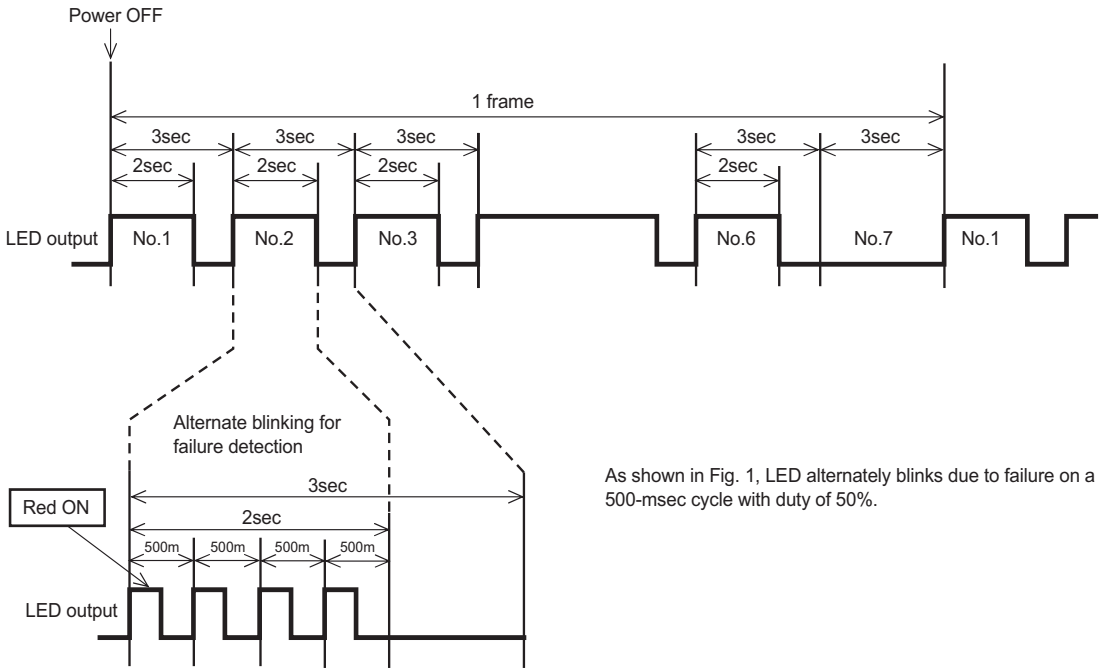


Figure 1

2. Failure detection

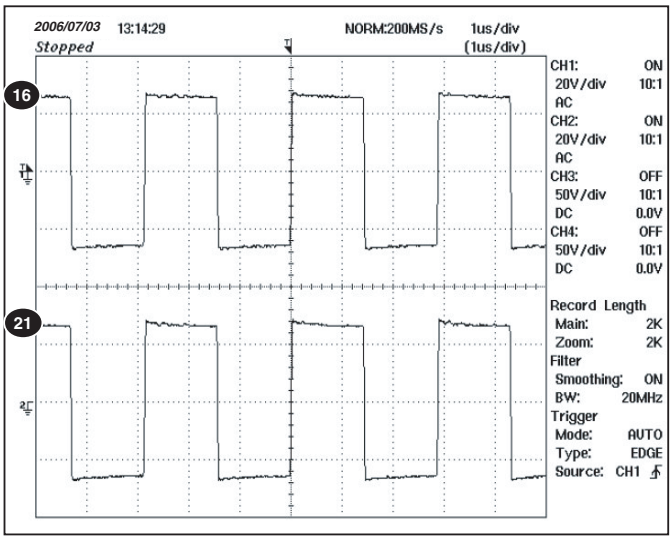
1. SYS-PROTECT detection: To detect failure of the power supply circuit (except the 1.8 V power supply circuit).
2. B_CHECK detection: To check timing at power ON/OFF and detect over voltage and reduced voltage of the primary AC power after the power is turned on.
3. AVCK detection: To detect failure of the 1.8 V power supply circuit (AVCK1 and AVCK2).
4. AMP_SW_PROT detection: To detect failure in the subwoofer AMP.

3. STANDBY LED Error Message

No.	Name of failure detection	Solution
1	SYS-PROTECT detection	Immediate power shut-down; Identification No.1 blinking
2	B_CHECK detection	Immediate power shut-down; Identification No.2 blinking in case of over voltage No blinking in case of reduced voltage
3	AVCK detection	Immediate power shut-down; Identification No.3 blinking
4	AMP_SW_PROT detection	Immediate power shut-down; Identification No.6 blinking

[3] Waveforms Of SUBWOOFER Circuit

(at no signal)



[4] Voltage

ICM6					
PIN NO.	VOLTAGE (V)	PIN NO.	VOLTAGE (V)	PIN NO.	VOLTAGE (V)
1	3.06	49	2.98	97	2.04
2	0.00	50	3.15	98	1.64
3	3.04	51	1.56	99	3.20
4	3.03	52	0.00	100	3.14
5	0.00	53	3.15	101	0.00
6	0.00	54	1.64	102	3.21
7	0.00	55	0.00	103	3.13
8	1.62	56	0.00	104	3.18
9	0.00	57	0.00	105	3.17
10	1.63	58	0.00	106	3.18
11	0.00	59	0.00	107	3.13
12	1.52	60	3.15	108	3.15
13	0.00	61	0.00	109	3.21
14	1.52	62	0.00	110	3.21
15	0.00	63	0.00	111	3.21
16	0.00	64	0.00	112	3.21
17	0.00	65	3.28	113	3.25
18	3.14	66	1.76	114	3.19
19	0.00	67	0.00	115	3.20
20	1.52	68	0.00	116	0.00
21	0.00	69	0.00	117	3.20
22	1.53	70	0.00	118	3.21
23	3.10	71	0.00	119	1.72
24	1.64	72	0.00	120	3.15
25	3.14	73	3.15	121	3.17
26	3.12	74	0.00	122	0.00
27	0.00	75	0.00	123	1.70
28	3.15	76	0.00	124	0.69
29	3.11	77	0.00	125	1.08
30	3.11	78	3.15	126	0.00
31	3.12	79	3.14	127	1.18
32	3.12	80	3.15	128	0.91
33	3.15	81	3.14	129	1.69
34	0.00	82	0.00	130	1.74
35	3.13	83	1.63	131	0.00
36	0.00	84	0.00	132	0.00
37	3.05	85	0.00	133	0.00
38	3.15	86	0.00	134	0.00
39	3.11	87	0.00	135	3.12
40	2.99	88	0.00	136	3.20
41	3.01	89	3.15	137	3.20
42	3.02	90	3.15	138	3.21
43	3.02	91	3.15	139	0.00
44	3.15	92	0.00	140	1.53
45	2.98	93	3.12	141	1.56
46	2.97	94	0.00	142	0.00
47	0.00	95	3.04	143	3.11
48	2.97	96	2.94	144	3.13

ICM7			
PIN NO.	VOLTAGE (V)	PIN NO.	VOLTAGE (V)
1	0.00	51	3.12
2	0.00	52	0.00
3	3.07	53	0.00
4	0.00	54	3.21
5	1.39	55	3.18
6	3.00	56	3.14
7	0.00	57	0.00
8	0.00	58	3.14
9	0.13	59	3.14
10	0.80	60	0.00
11	0.47	61	0.00
12	3.09	62	0.00
13	1.55	63	3.14
14	0.00	64	0.00
15	1.39	65	0.00
16	3.13	66	0.00
17	3.13	67	0.00
18	0.00	68	0.00
19	0.00	69	0.00
20	0.00	70	0.00
21	0.00	71	0.00
22	0.00	72	0.00
23	0.00	73	0.00
24	0.00	74	0.00
25	3.13	75	2.90
26	3.14	76	3.14
27	3.14	77	3.14
28	3.13	78	0.00
29	2.64	79	0.00
30	2.64	80	0.00
31	0.00	81	0.00
32	0.00	82	1.01
33	3.13	83	1.08
34	0.00	84	3.01
35	3.14	85	3.22
36	3.14	86	0.00
37	3.13	87	0.00
38	3.13	88	0.00
39	1.50	89	0.00
40	0.00	90	0.00
41	0.00	91	3.20
42	3.13	92	3.01
43	3.13	93	2.97
44	0.00	94	0.00
45	2.99	95	0.68
46	3.00	96	0.00
47	0.11	97	1.23
48	0.11	98	3.09
49	0.11	99	3.22
50	3.19	100	3.07

ICM10			
PIN NO.	VOLTAGE (V)	PIN NO.	VOLTAGE (V)
1	1.63	41	0.00
2	0.00	42	0.00
3	1.63	43	0.00
4	0.00	44	3.13
5	1.67	45	0.00
6	0.00	46	3.13
7	0.00	47	1.52
8	0.00	48	1.52
9	0.00	49	0.00
10	1.66	50	1.62
11	0.00	51	0.00
12	1.48	52	1.65
13	1.49	53	0.00
14	3.14	54	0.00
15	0.00	55	0.00
16	0.00	56	0.00
17	0.00	57	0.00
18	0.00	58	0.00
19	0.00	59	0.00
20	0.00	60	0.00
21	0.00	61	3.12
22	3.10	62	3.12
23	0.00	63	0.00
24	4.72	64	0.00
25	4.72	65	1.65
26	0.00	66	3.11
27	2.29	67	3.11
28	2.29	68	3.12
29	2.24	69	3.13
30	2.25	70	3.12
31	2.29	71	2.62
32	2.30	72	0.00
33	0.00	73	2.62
34	4.72	74	0.00
35	2.30	75	1.65
36	2.91	76	0.00
37	0.00	77	0.00
38	0.00	78	3.12
39	0.00	79	0.00
40	4.73	80	3.12

ICM3			
PIN NO.	VOLTAGE (V)	PIN NO.	VOLTAGE (V)
1	0.67	15	0.00
2	0.54	16	2.58
3	1.51	17	2.53
4	1.51	18	0.00
5	1.51	19	3.20
6	3.11	20	0.00
7	0.00	21	3.14
8	0.00	22	0.00
9	3.12	23	3.22
10	0.90	24	1.62
11	0.60	25	1.60
12	0.70	26	0.00
13	0.70	27	1.53
14	0.00	28	1.59

ICP100			
PIN NO.	VOLTAGE (V)	PIN NO.	VOLTAGE (V)
1	-31.28	21	-34.12
2	-31.29	22	-34.37
3	1.98	23	-34.36
4	0.00	24	-34.46
5	1.46	25	0.00
6	1.45	26	0.00
7	3.32	27	-34.37
8	3.31	28	-34.35
9	3.26	29	-34.36
10	0.12	30	-33.73
11	-34.45	31	-34.76
12	-34.22	32	-34.36
13	-34.43	33	-34.35
14	-34.41	34	-34.34
15	-34.65	35	-34.34
16	-34.42	36	-31.35
17	-34.46	37	-34.36
18	0.00	38	-31.56
19	-34.46	39	-34.34
20	0.00	40	-34.32

ICT1	
PIN NO.	VOLTAGE (V)
1	2.30
2	2.33
3	4.80
4	0.00
5	2.36
6	2.29
7	0.00
8	2.43
9	2.22
10	0.00
11	4.74
12	4.75
13	4.74
14	0.00
15	4.84
16	3.22

Q1	
PIN NO.	VOLTAGE (V)
C	0.00
B	6.03
E	5.66

Q3	
PIN NO.	VOLTAGE (V)
C	4.67
B	0.00
E	0.00

ICM14	
PIN NO.	VOLTAGE (V)
1	4.79
2	0.00
3	4.73
4	0.00
5	1.63

Q2	
PIN NO.	VOLTAGE (V)
C	0.00
B	4.73
E	5.25

Q4	
PIN NO.	VOLTAGE (V)
C	5.64
B	0.00
E	0.00

ICM17	
PIN NO.	VOLTAGE (V)
1	4.73
2	0.00
3	4.74
4	0.00
5	3.10

QF1	
PIN NO.	VOLTAGE (V)
C	0.00
B	17.25
E	18.98

QF3	
PIN NO.	VOLTAGE (V)
C	10.04
B	0.00
E	0.00

ICM8	
PIN NO.	VOLTAGE (V)
1	0.00
2	0.00
3	0.00
4	0.00
5	3.17
6	3.15
7	3.16
8	3.13

ICM9	
PIN NO.	VOLTAGE (V)
1	3.01
2	3.01
3	0.00
4	0.00
5	0.00

QF2	
PIN NO.	VOLTAGE (V)
C	0.00
B	10.10
E	10.93

QF4	
PIN NO.	VOLTAGE (V)
1	17.09
2	0.00
3	0.00

ICM4	
PIN NO.	VOLTAGE (V)
1	0.00
2	0.00
3	0.00
4	-8.91
5	0.00
6	0.00
7	0.00
8	8.59

ICM5	
PIN NO.	VOLTAGE (V)
1	0.00
2	0.00
3	0.00
4	-8.94
5	0.00
6	0.00
7	0.00
8	8.73

ICM12	
PIN NO.	VOLTAGE (V)
1	0.00
2	0.00
3	0.00
4	-8.93
5	0.00
6	0.00
7	0.00
8	8.60

ICM11	
PIN NO.	VOLTAGE (V)
1	4.89
2	0.00
3	4.90
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	8.59
11	4.90
12	4.80
13	0.00
14	4.91

ICM18	
PIN NO.	VOLTAGE (V)
1	0.00
2	0.95
3	3.12
4	0.00
5	0.00
6	0.00
7	0.00
8	3.12

ICA1	
PIN NO.	VOLTAGE (V)
1	0.00
2	1.52
3	1.65
4	1.02
5	1.58
6	0.00
7	3.12
8	0.00
9	0.00
10	2.61
11	2.61
12	0.00
13	2.28
14	0.00
15	0.00
16	4.73
17	0.00
18	1.09
19	1.05
20	1.09
21	1.14
22	0.84
23	0.84
24	0.83
25	0.82
26	0.82
27	0.80
28	0.80

ICM15	
PIN NO.	VOLTAGE (V)
1	9.16
2	0.00
3	3.12

ICM16	
PIN NO.	VOLTAGE (V)
1	0.00
2	3.12
3	1.64
4	2.22
5	0.00

QM19	
PIN NO.	VOLTAGE (V)
C	1.66
B	2.49
E	3.15

Q6	
PIN NO.	VOLTAGE (V)
C	0.00
B	30.53
E	0.00

Q7	
PIN NO.	VOLTAGE (V)
C	3.33
B	0.00
E	0.00

IC2	
PIN NO.	VOLTAGE (V)
1	-25.77
2	0.00
3	25.89
4	0.00
5	0.00
6	5.23
7	-22.91
8	0.00
9	0.00
10	25.86
11	0.00
12	-25.76
13	-17.84
14	26.14
15	10.36
16	-0.11
17	-25.95
18	-13.81
19	-25.76
20	-25.96
21	-0.13
22	10.38
23	26.14
24	-25.77

ICF2	
PIN NO.	VOLTAGE (V)
1	-25.75
2	0.00
3	25.89
4	0.00
5	0.00
6	10.72
7	-22.55
8	0.00
9	0.00
10	25.89
11	0.00
12	25.76
13	-17.88
14	26.14
15	11.08
16	-0.13
17	-25.95
18	-13.59
19	-25.76
20	-25.96
21	-0.16
22	11.23
23	26.14
24	-25.76

QF6	
PIN NO.	VOLTAGE (V)
C	0.00
B	29.95
E	0.00

QF7	
PIN NO.	VOLTAGE (V)
C	3.33
B	0.00
E	0.00

IC800	
PIN NO.	VOLTAGE (V)
1	0.40
2	1.11
3	2.05
4	0.00
5	0.96
6	10.39
7	1.69
8	0.29

IC801	
PIN NO.	VOLTAGE (V)
1	16.68
2	0.00
3	2.46

IC802	
PIN NO.	VOLTAGE (V)
1	3.87
2	0.00
3	8.08

IC803	
PIN NO.	VOLTAGE (V)
1	14.61
2	0.00
3	4.97

IC804	
PIN NO.	VOLTAGE (V)
1	14.61
2	0.00
3	9.00

Q802	
PIN NO.	VOLTAGE (V)
C	0.00
B	0.68
E	0.00

Q803	
PIN NO.	VOLTAGE (V)
C	0.00
B	9.82
E	-9.21

Q804	
PIN NO.	VOLTAGE (V)
D	389.54
G	0.62
S	0.00

QP1	
PIN NO.	VOLTAGE (V)
C	2.95
B	0.00
E	0.00

-MEMO-

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

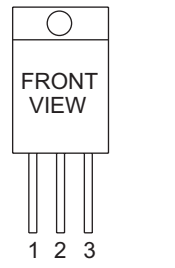
[1] Notes On Schematic Diagram

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

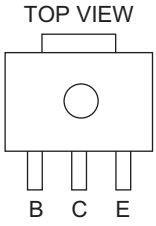
  1. In the tuner section,
     indicates FM stereo
- Parts marked with “⚠” (⊏二二二⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	ON/STAND-BY	ON-OFF
SW2	VOLUME DOWN	ON-OFF
SW3	VOLUME UP	ON-OFF
SW4	FUNCTION	ON-OFF

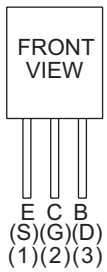
[2] Types Of Transistor And LED



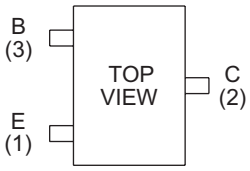
SARS03
1. Anode
2. No Contact
3. Cathode



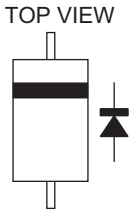
2SA2012
KTC4375Y



KTA1266 GR
KTA1023Y
KTC3199 GR
PST3229N

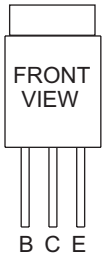


KRC107S
KRC101S
KRA107S
KRC104S
KTC3875 GR
KTA1504 GR
KTC2875B
6206P39T

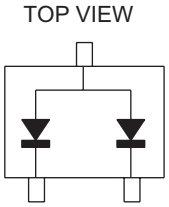


1N404S
1N4148H
DRL204F
1N4004
KDS160
MA111

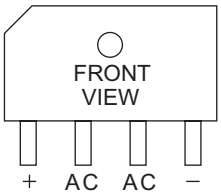
D1SS119



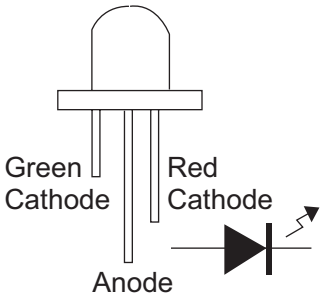
KTA1046Y
STH102CF



KDS226
KDS184



TS10B05G
TS20P05G
TS6P05G



A309SGM2E7

[3] Schematic Diagram

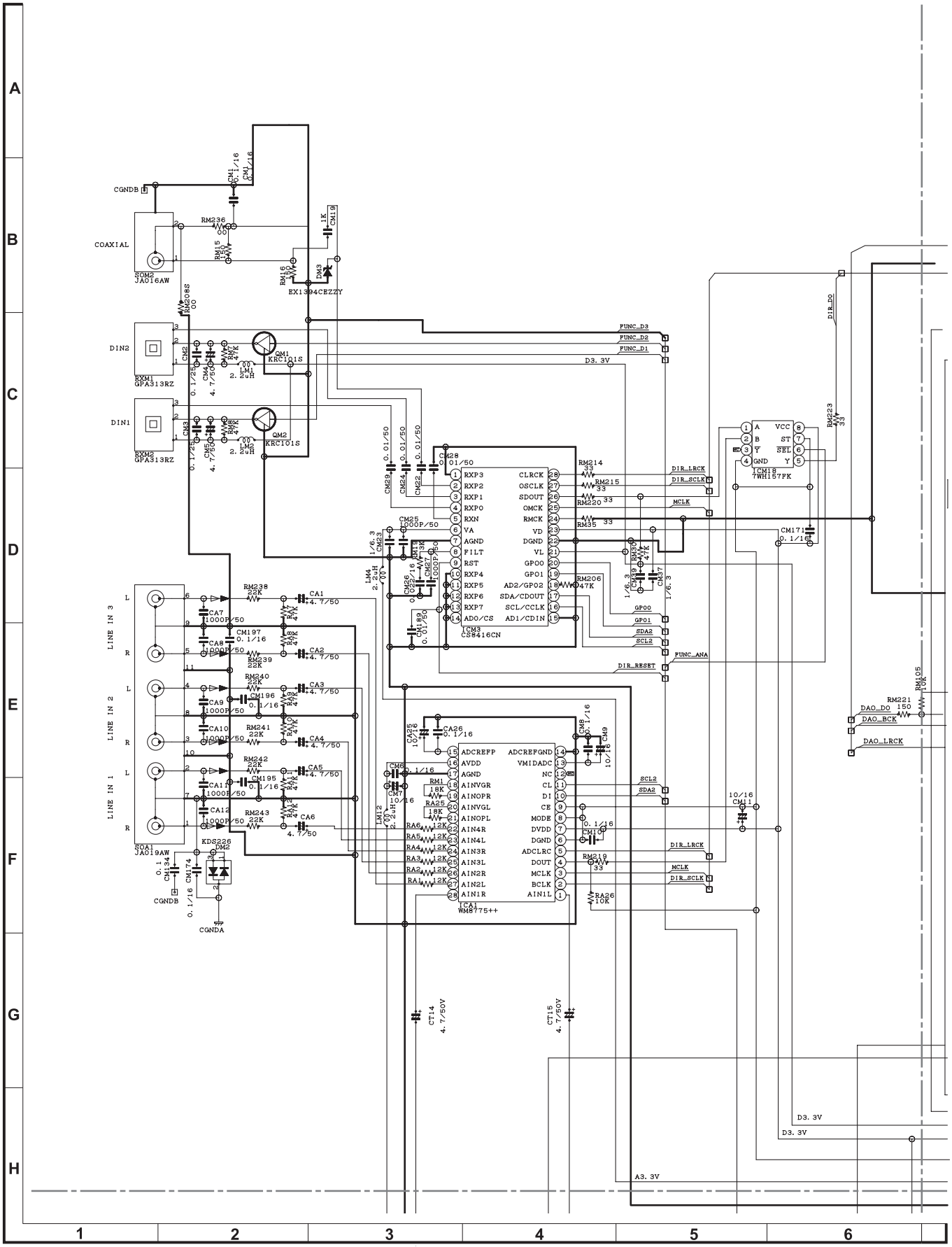


Figure 6-1: MAIN SCHEMATIC DIAGRAM (TOP) (1/16)

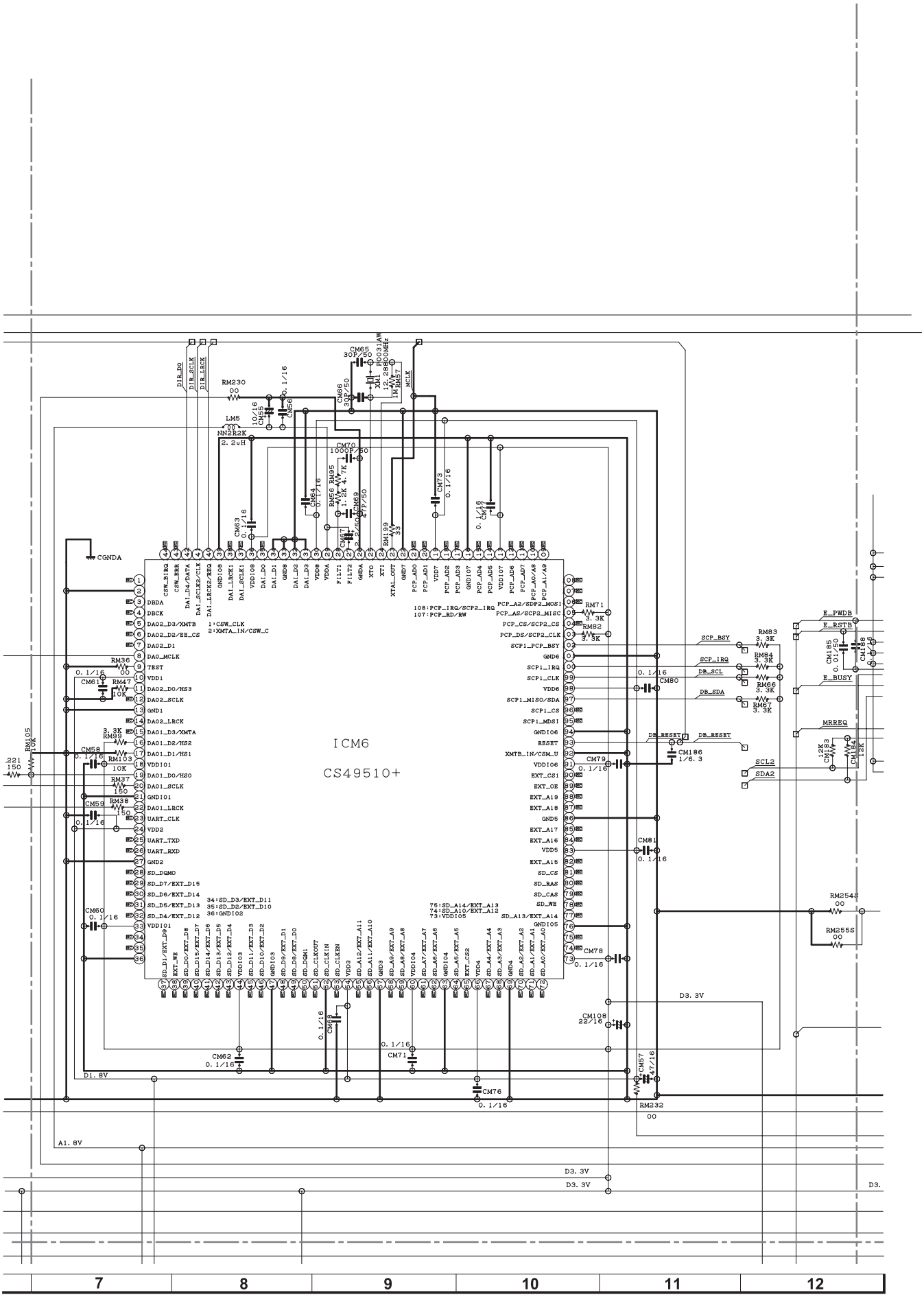


Figure 6-2: MAIN SCHEMATIC DIAGRAM (TOP) (2/16)

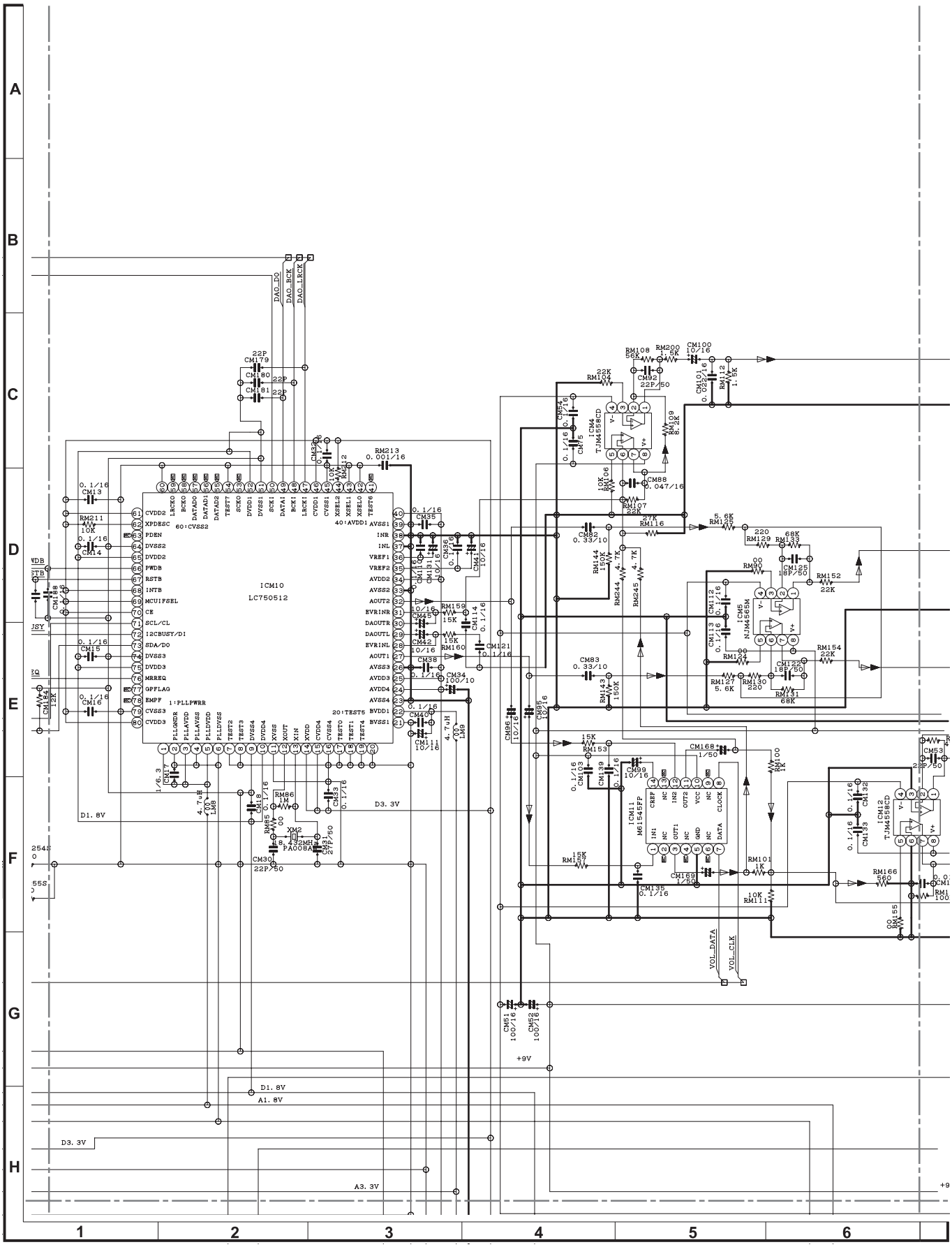


Figure 6-3: MAIN SCHEMATIC DIAGRAM (BOTTOM) (3/16)

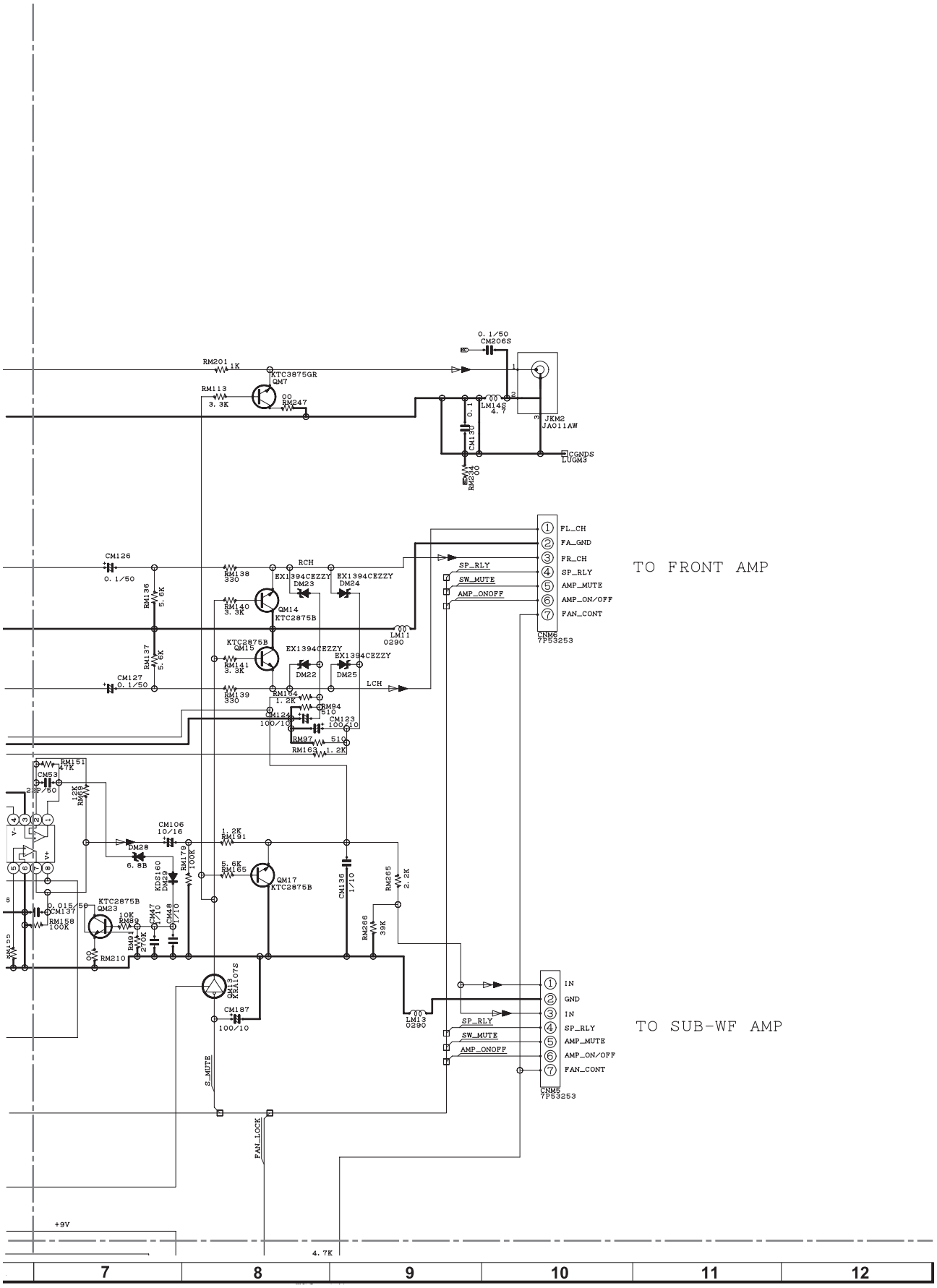


Figure 6-4: MAIN SCHEMATIC DIAGRAM (BOTTOM) (4/16)

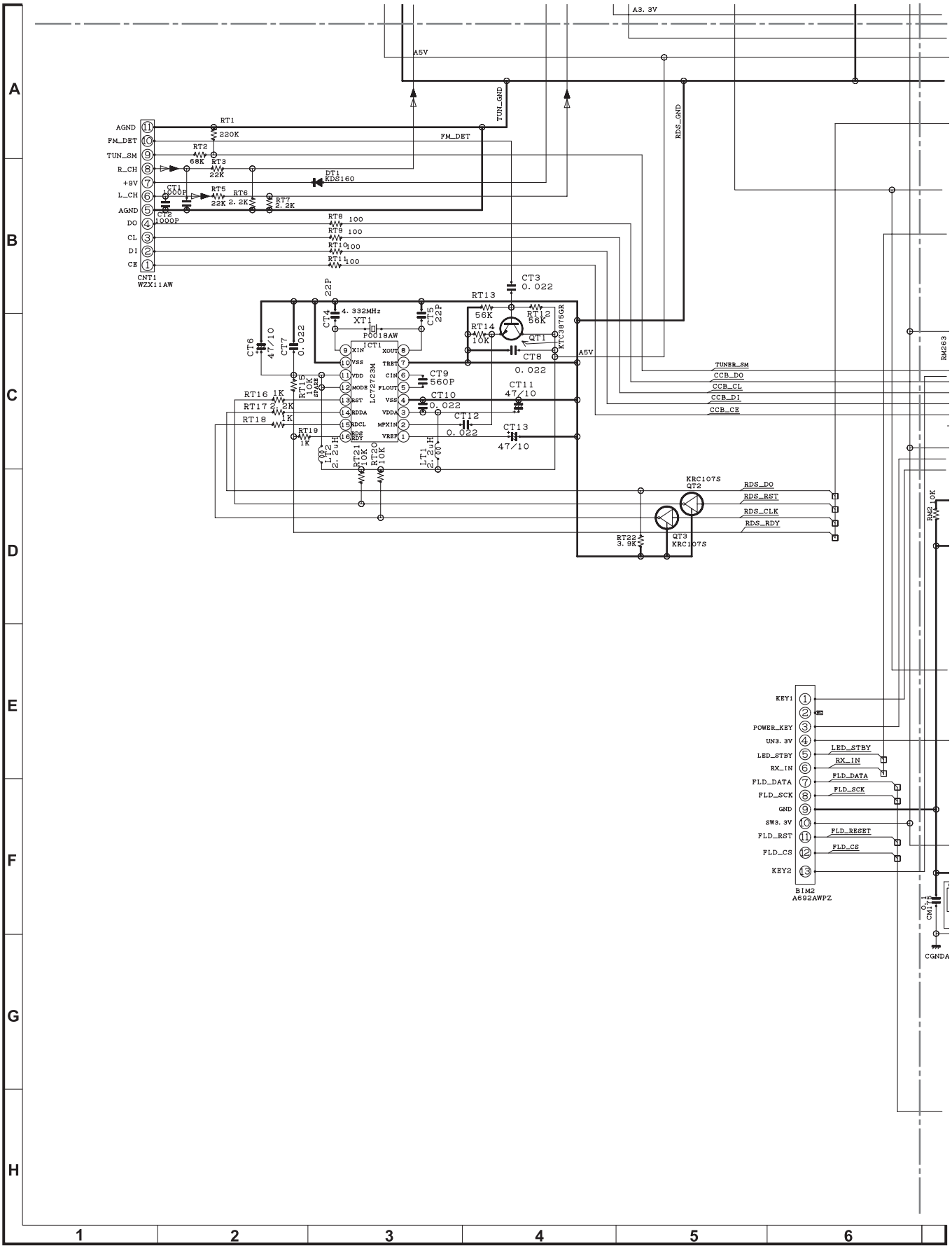


Figure 6-5: MAIN SCHEMATIC DIAGRAM (TOP) (5/16)

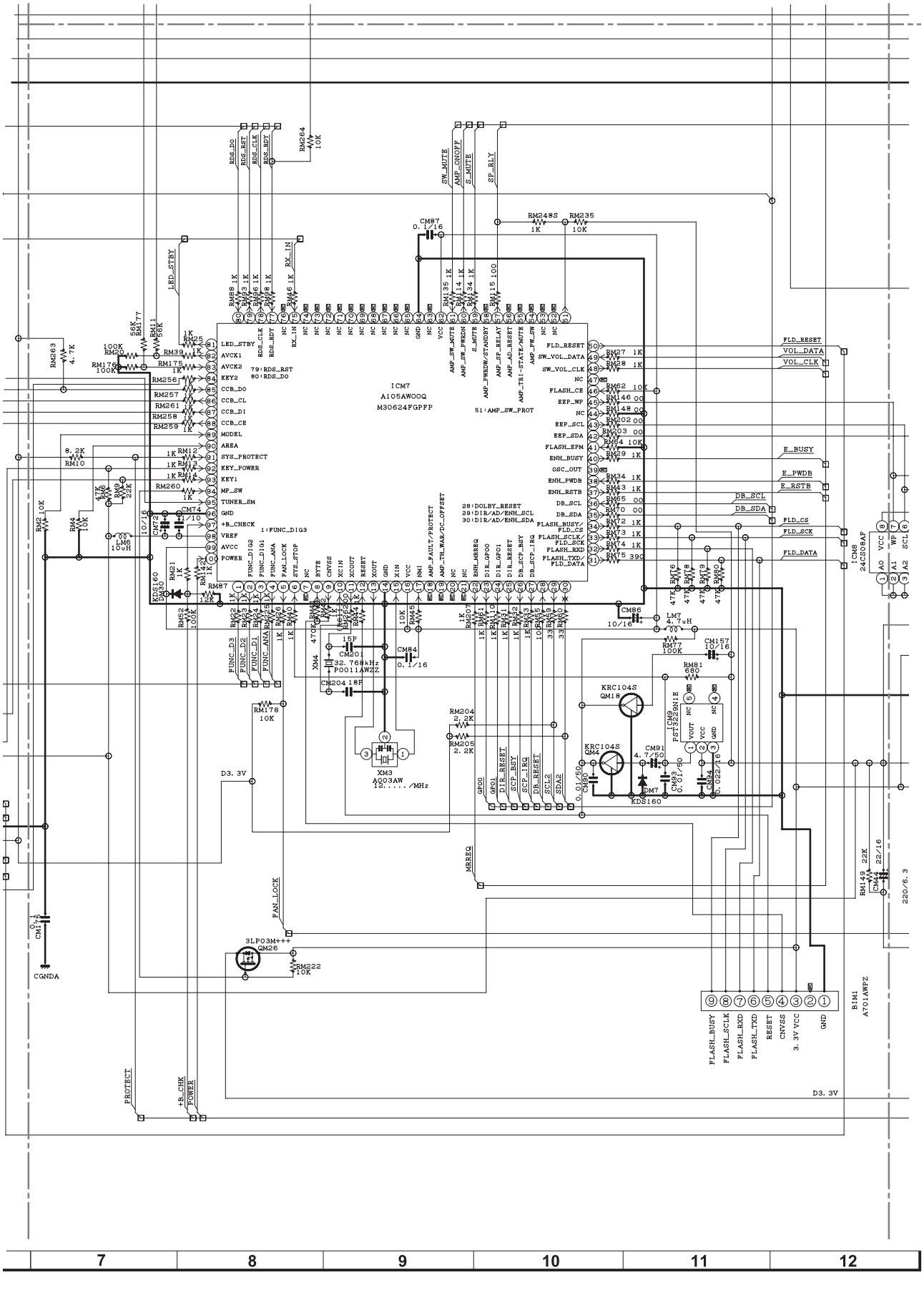


Figure 6-6: MAIN SCHEMATIC DIAGRAM (TOP) (6/16)

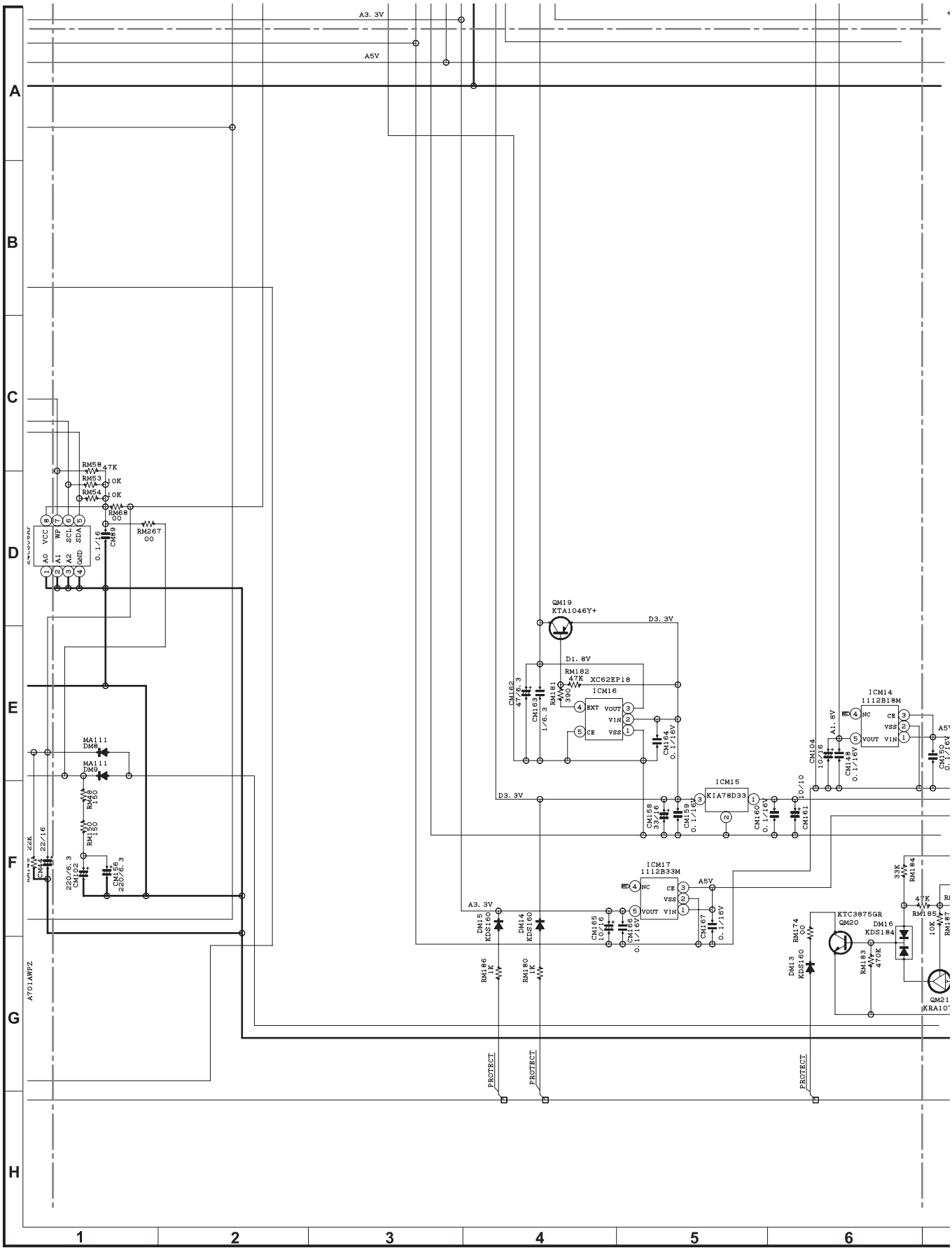


Figure 6-7: MAIN SCHEMATIC DIAGRAM (BOTTOM) (7/16)

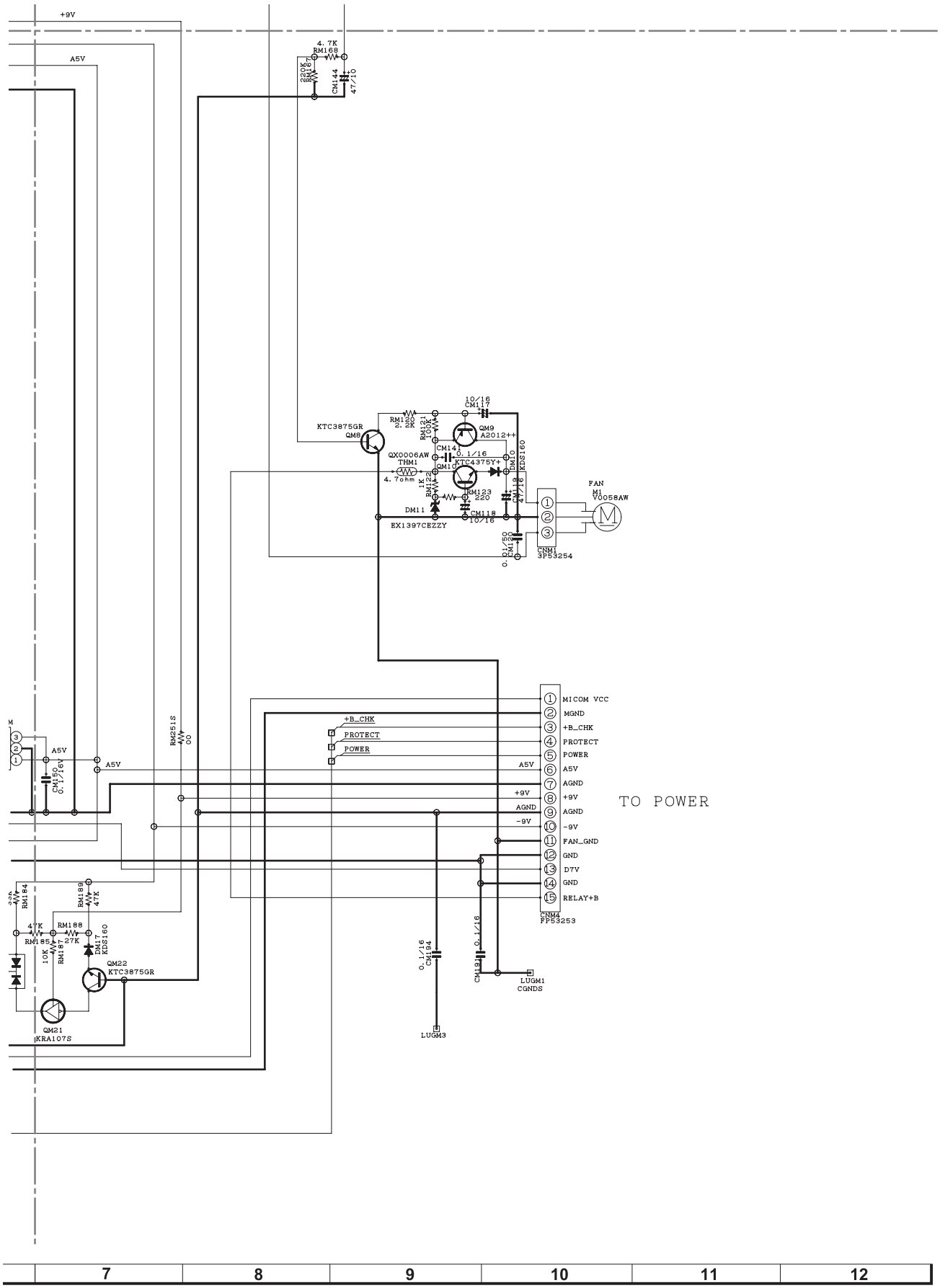


Figure 6-8: MAIN SCHEMATIC DIAGRAM (BOTTOM) (8/16)

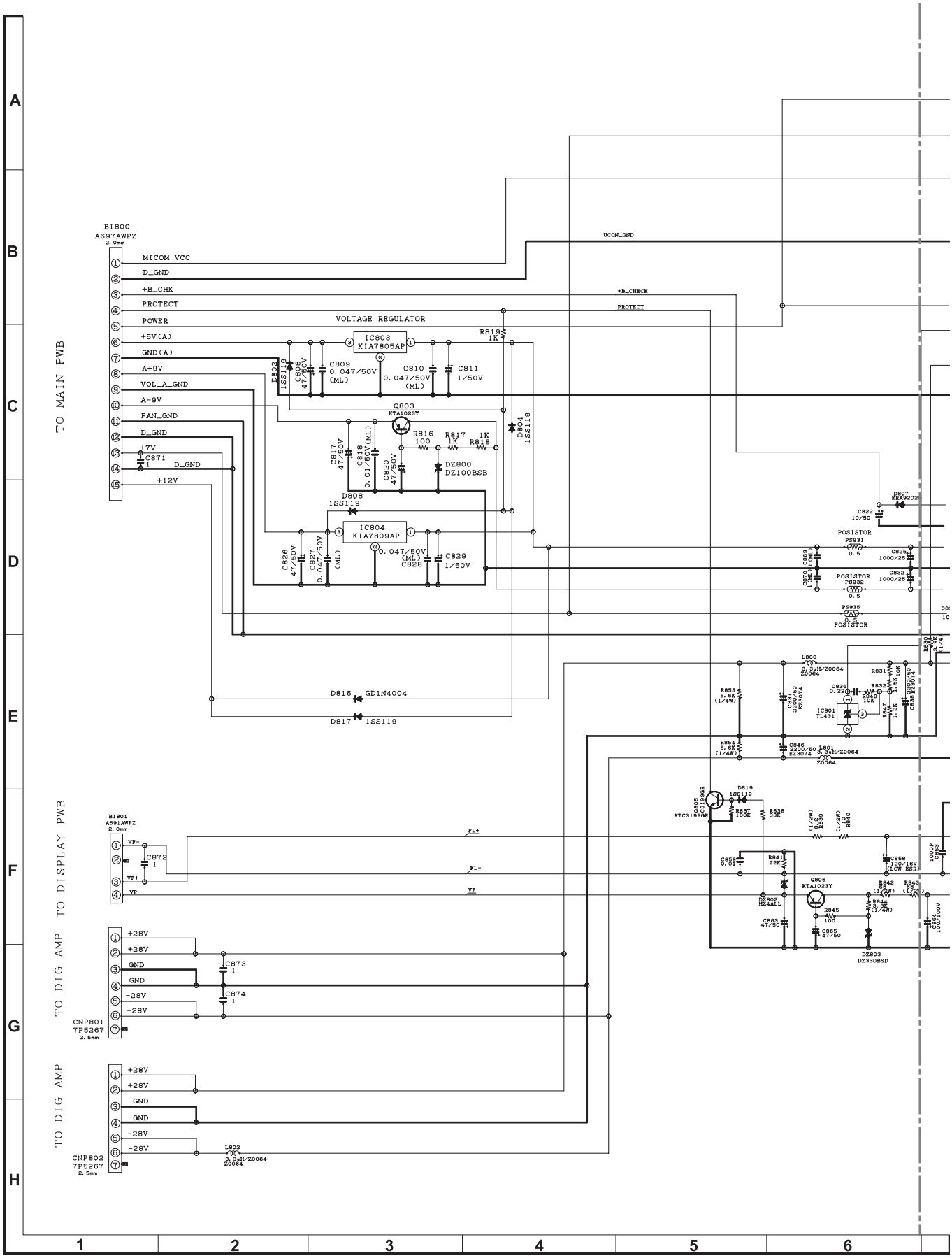
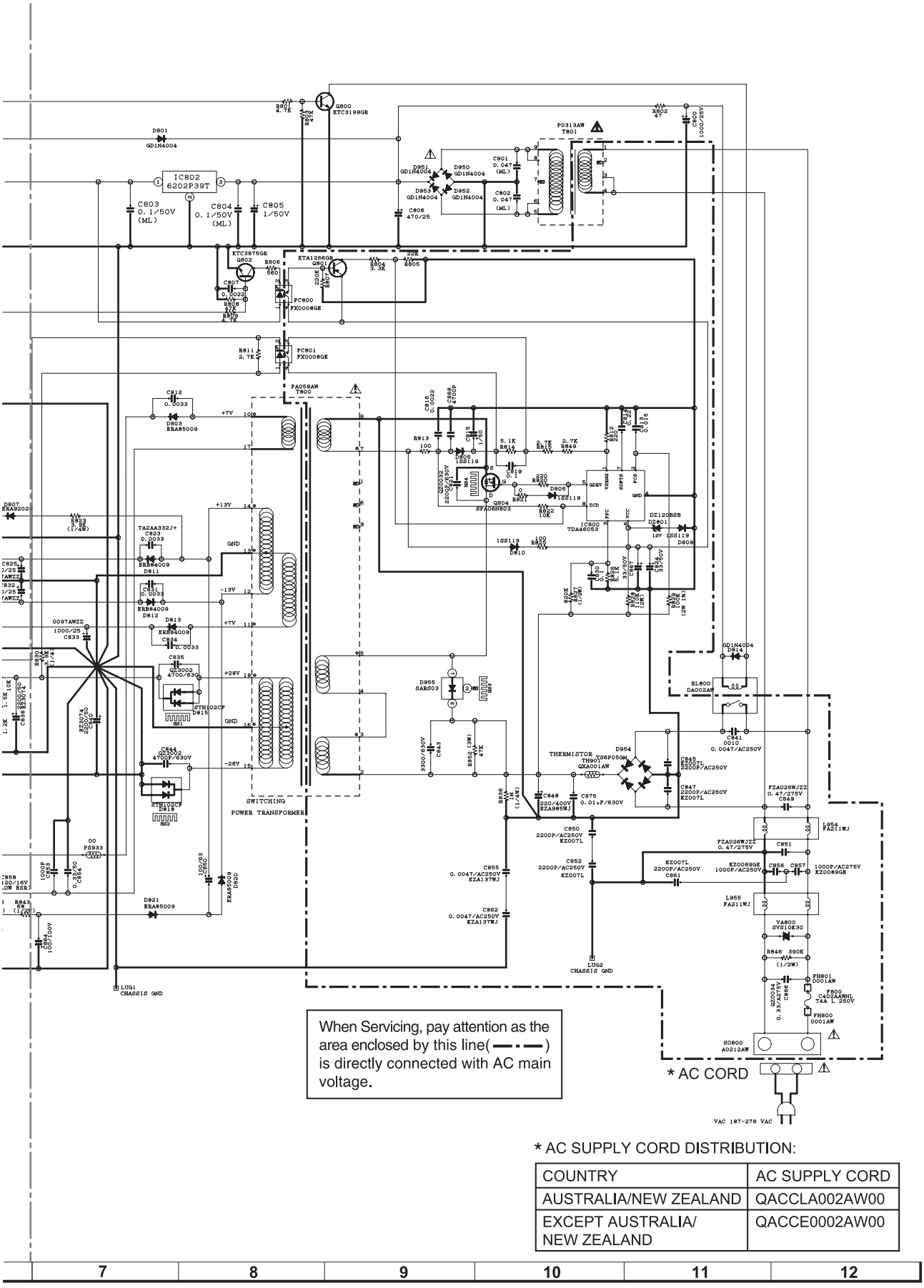


Figure 6-9: POWER SCHEMATIC DIAGRAM (9/16)



* AC SUPPLY CORD DISTRIBUTION:

COUNTRY	AC SUPPLY CORD
AUSTRALIA/NEW ZEALAND	QACCLA002AW00
EXCEPT AUSTRALIA/ NEW ZEALAND	QACCE0002AW00

Figure 6-10: POWER SCHEMATIC DIAGRAM (10/16)

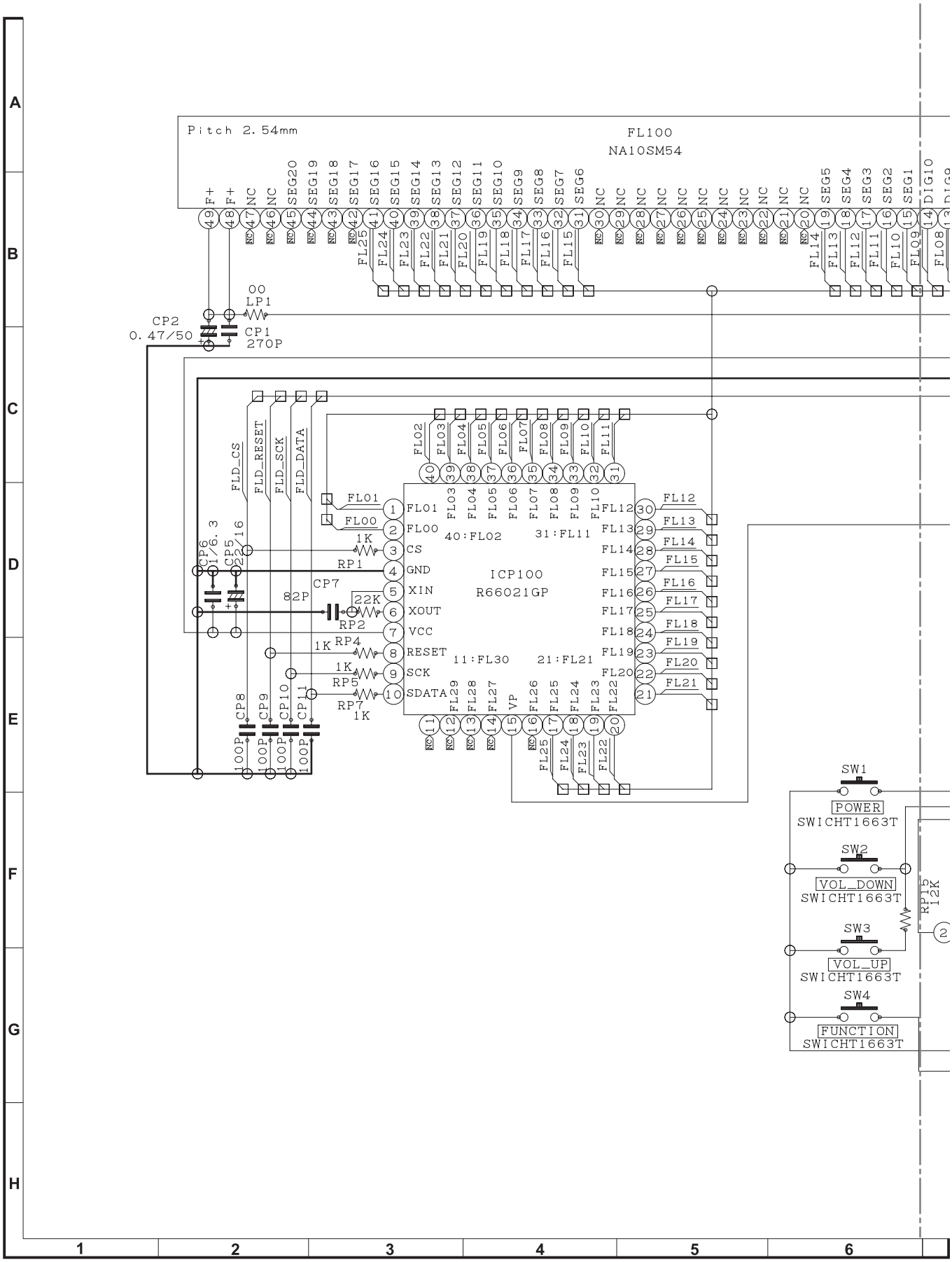


Figure 6-11: DISPLAY SCHEMATIC DIAGRAM (11/16)

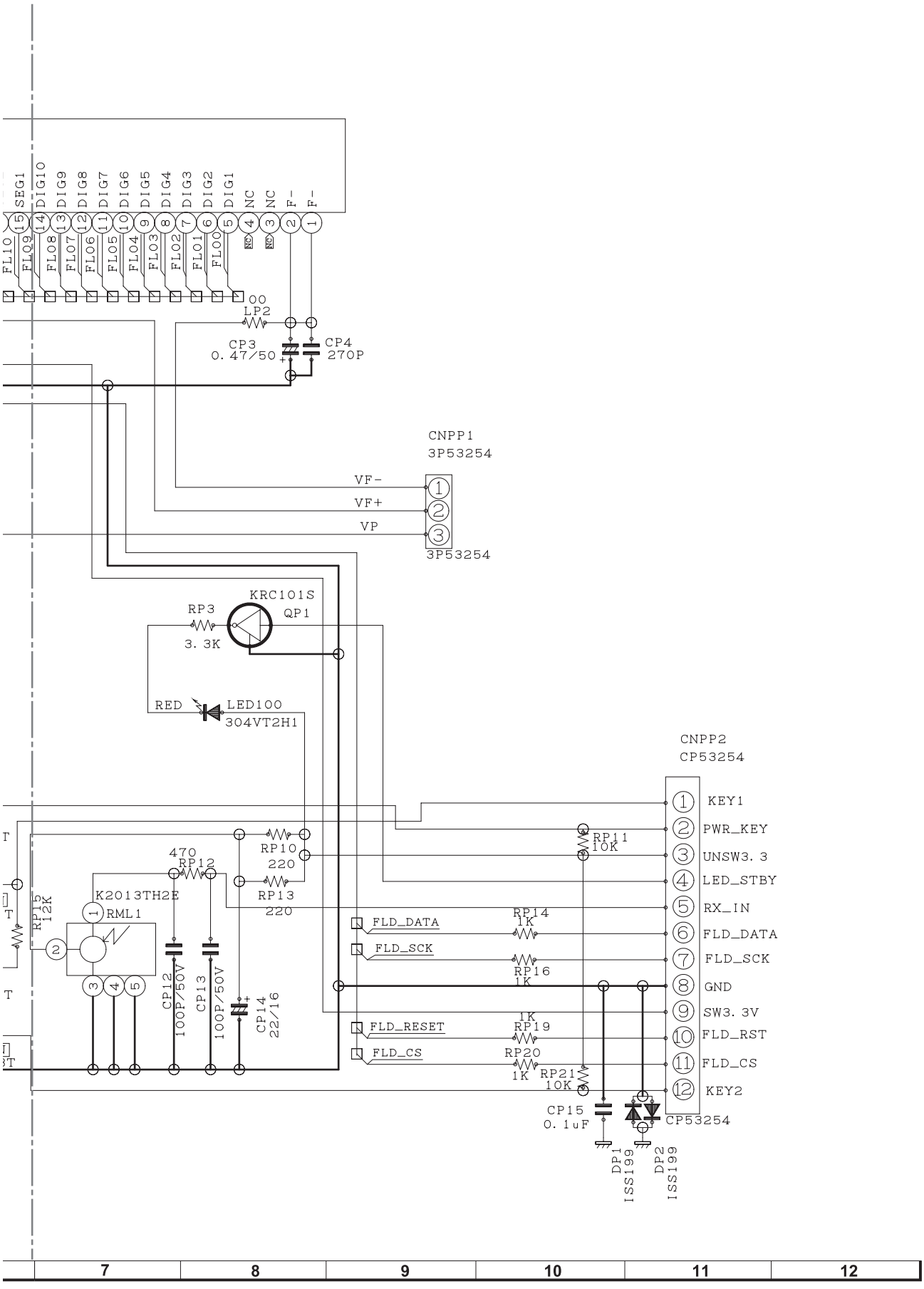


Figure 6-12: DISPLAY SCHEMATIC DIAGRAM (12/16)

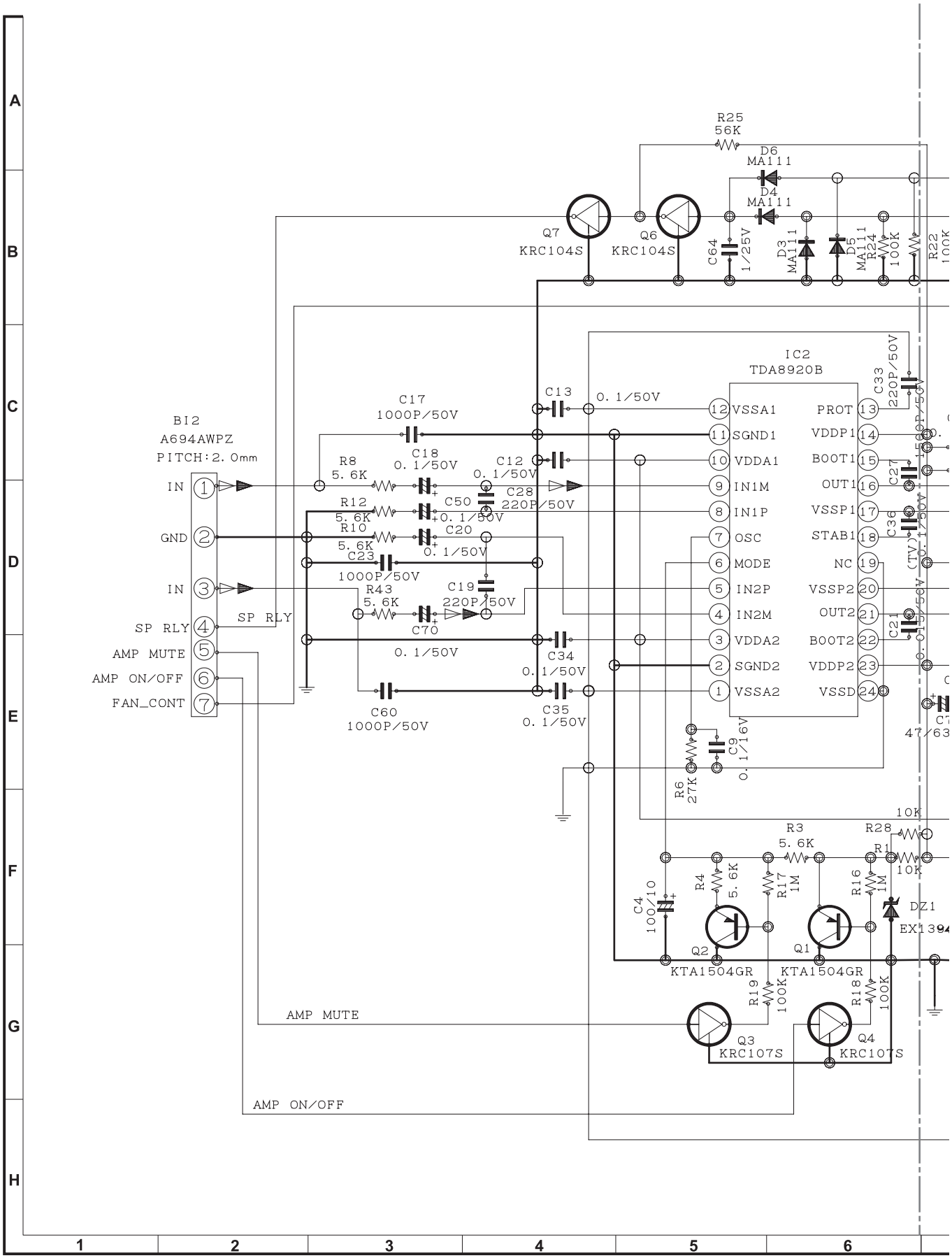


Figure 6-13: AMP SECTION (FRONT) SCHEMATIC DIAGRAM (13/16)

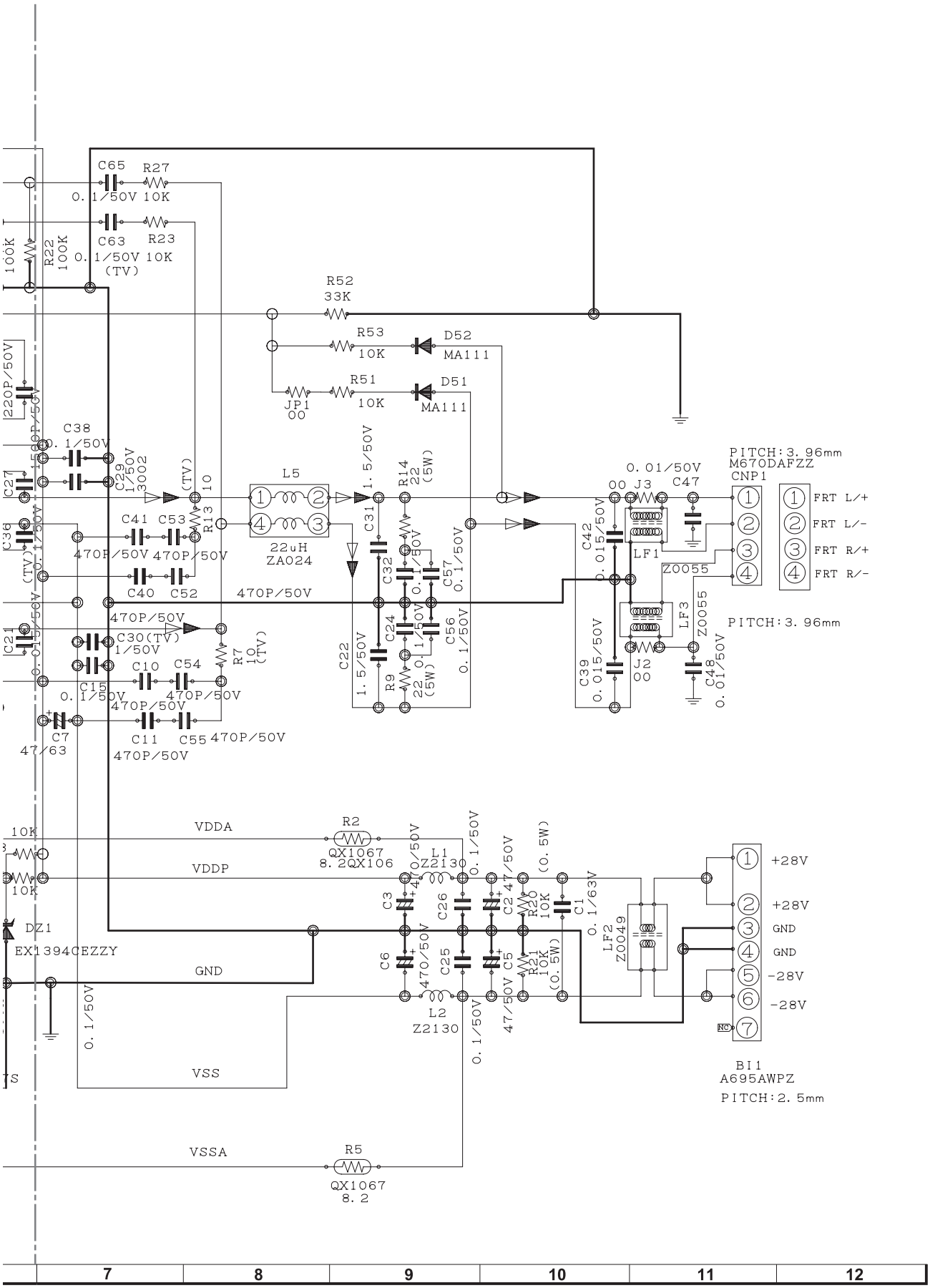


Figure 6-14: AMP SECTION (FRONT) SCHEMATIC DIAGRAM (14/16)

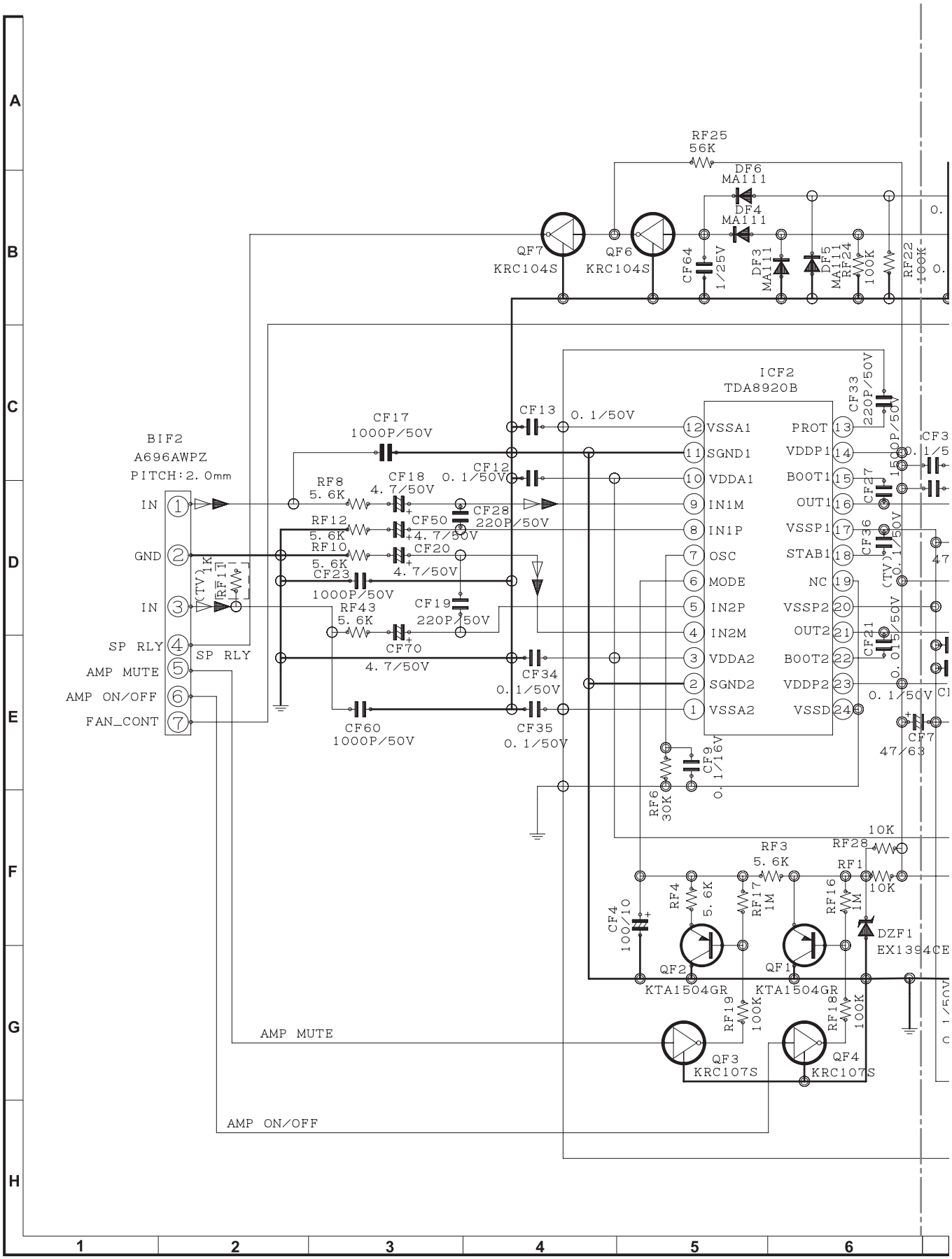


Figure 6-15: AMP SECTION (SUBWOOFER) SCHEMATIC DIAGRAM (15/16)

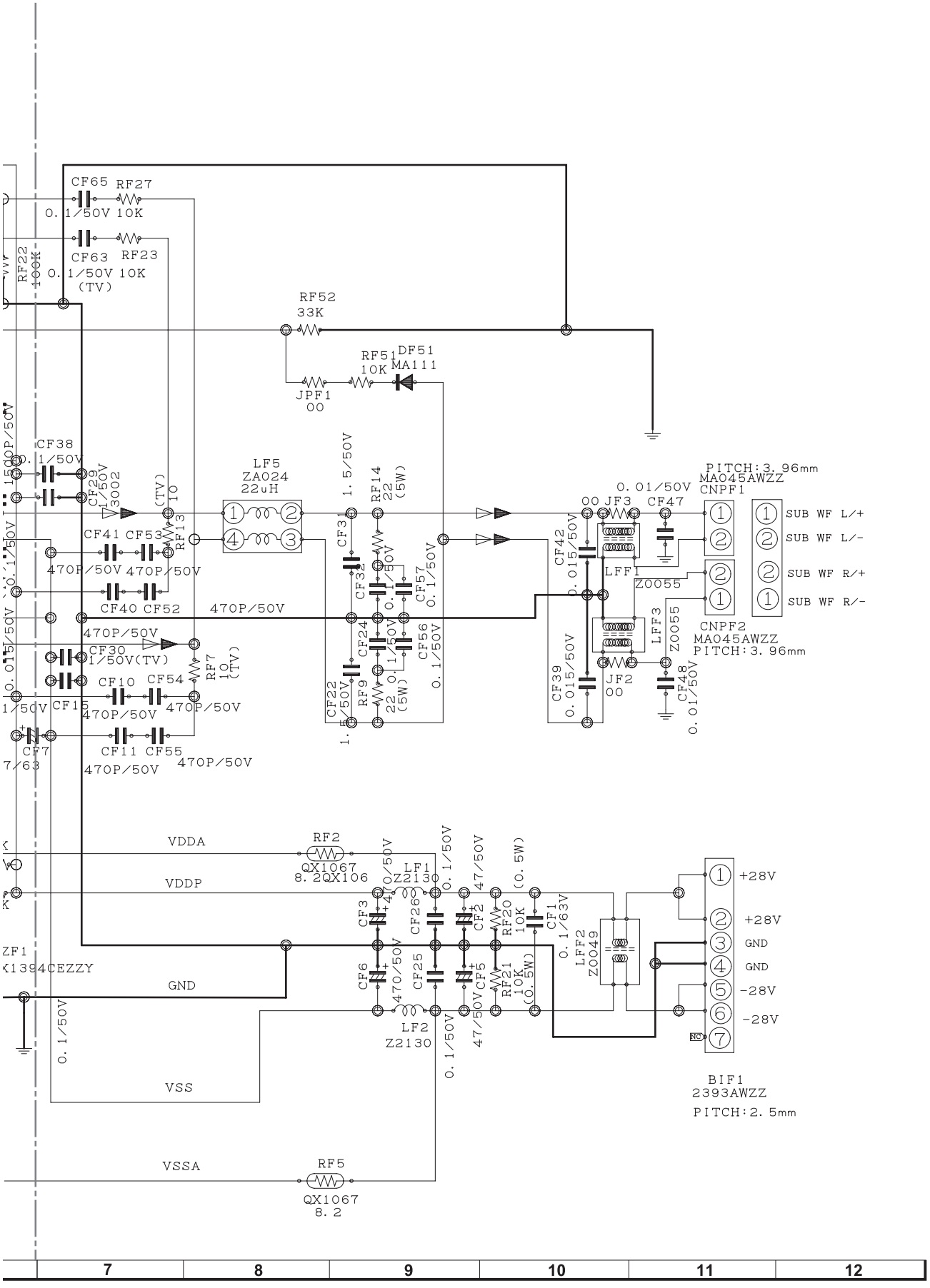


Figure 6-16: AMP SECTION (SUBWOOFER) SCHEMATIC DIAGRAM (16/16)

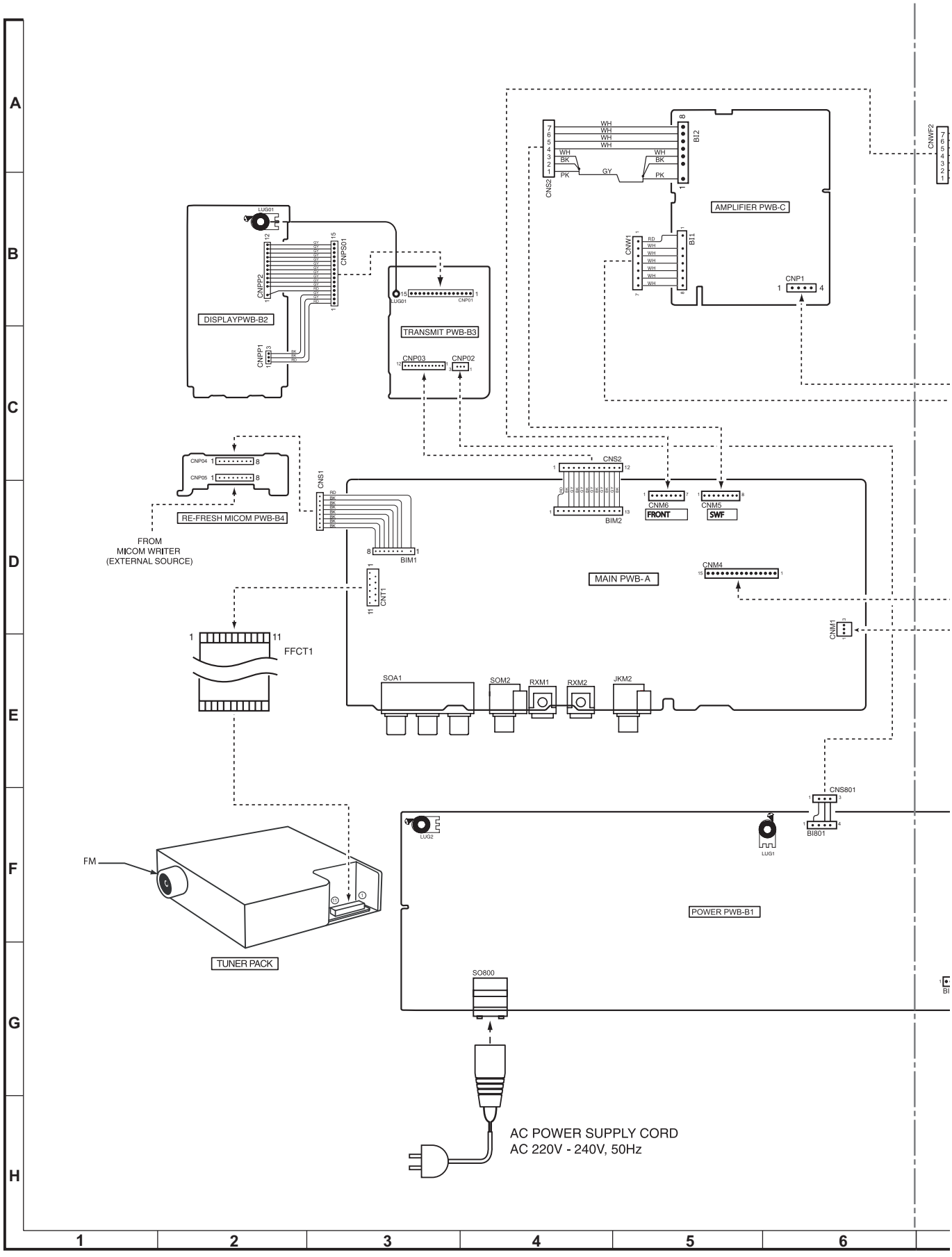
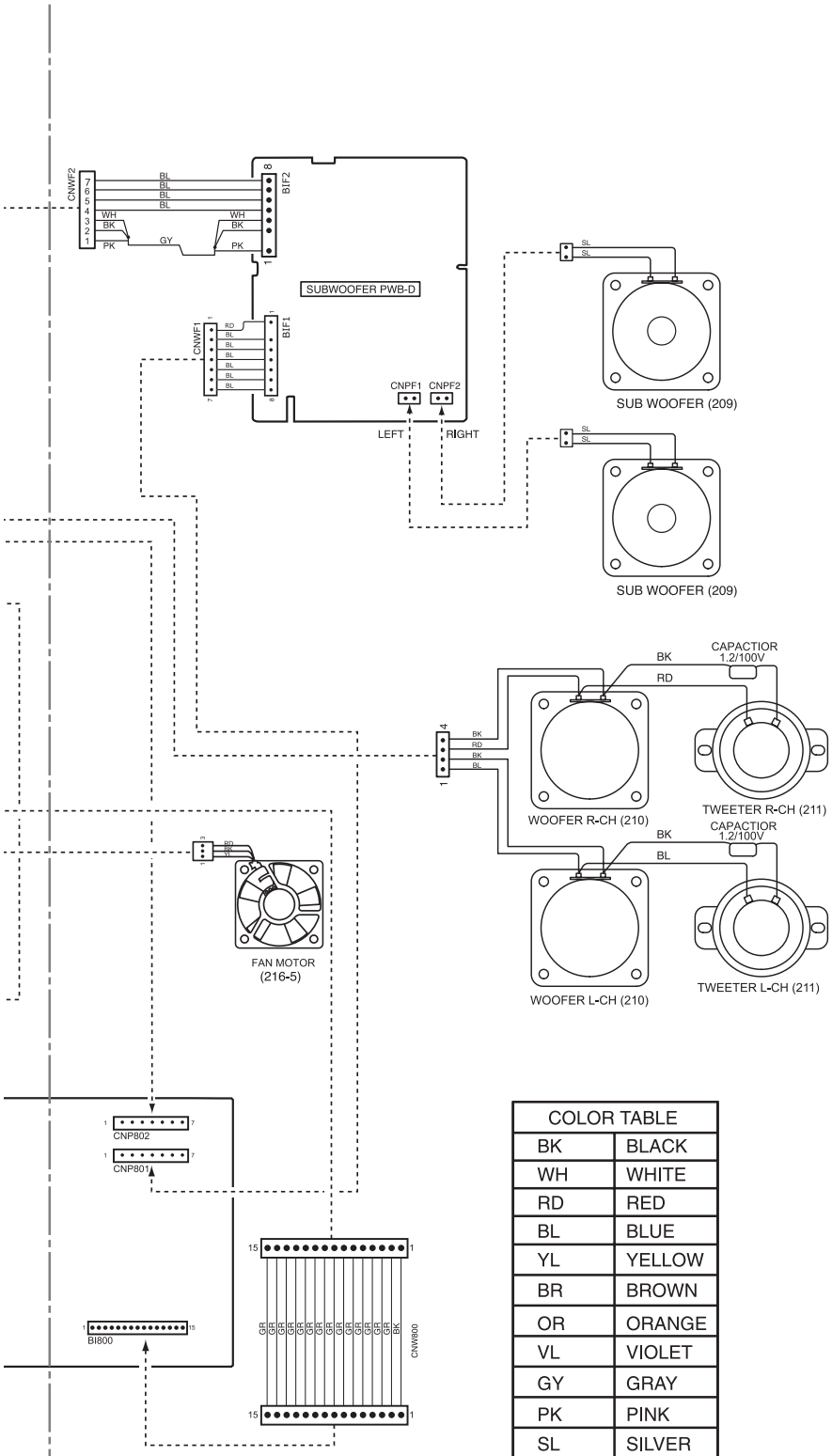


Figure 6-17: WIRING CONNECTION (1/2)



COLOR TABLE	
BK	BLACK
WH	WHITE
RD	RED
BL	BLUE
YL	YELLOW
BR	BROWN
OR	ORANGE
VL	VIOLET
GY	GRAY
PK	PINK
SL	SILVER
GR	GREEN

7	8	9	10	11	12

Figure 6-18: WIRING CONNECTION (2/2)

[5] Wiring Side Of PWB

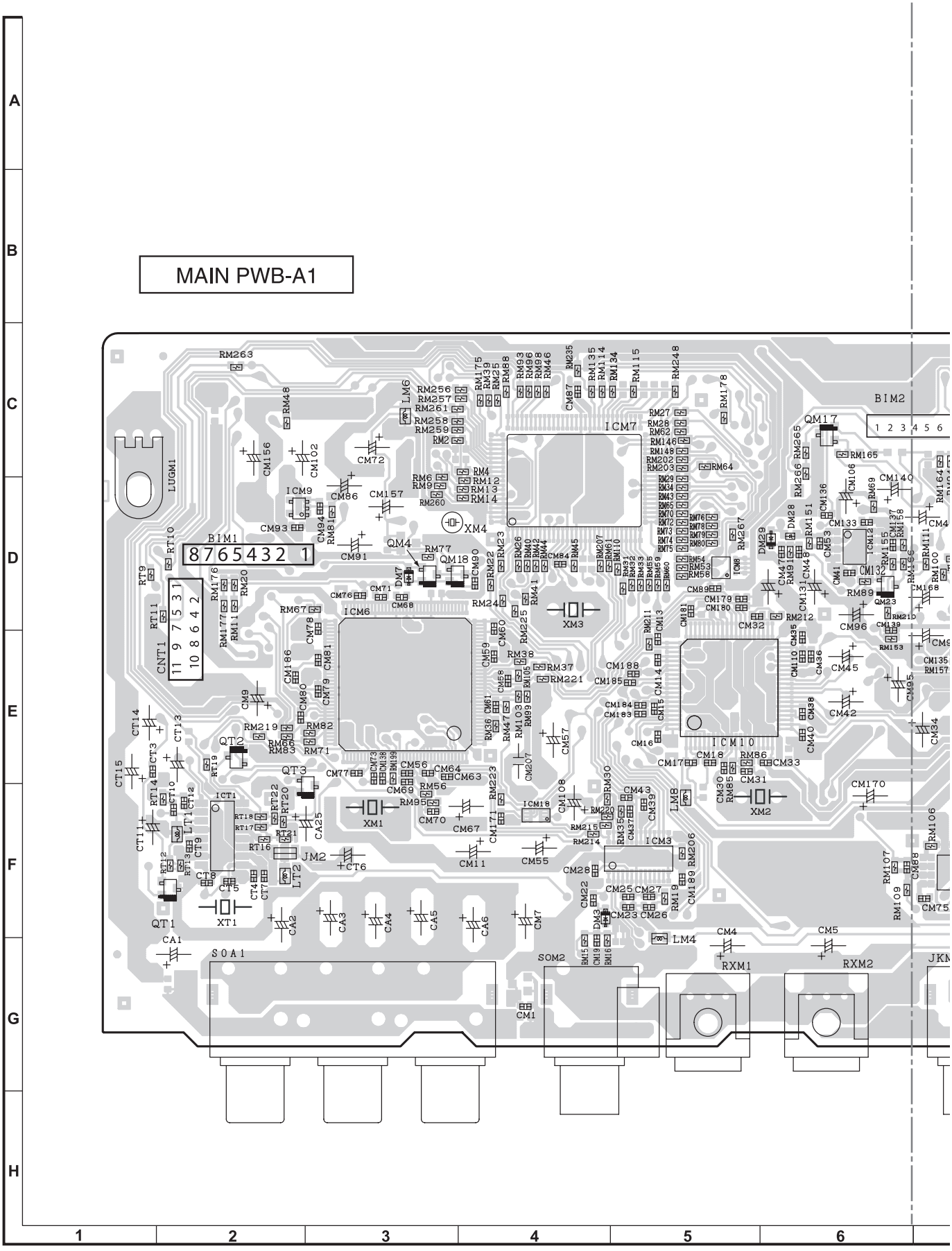


Figure 6-19: WIRING SIDE OF MAIN PWB (TOP VIEW) (1/15)

LFa
Sn-Ag-Cu

← Lead-free solder indication

Lead-free solder is used in the MAIN PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

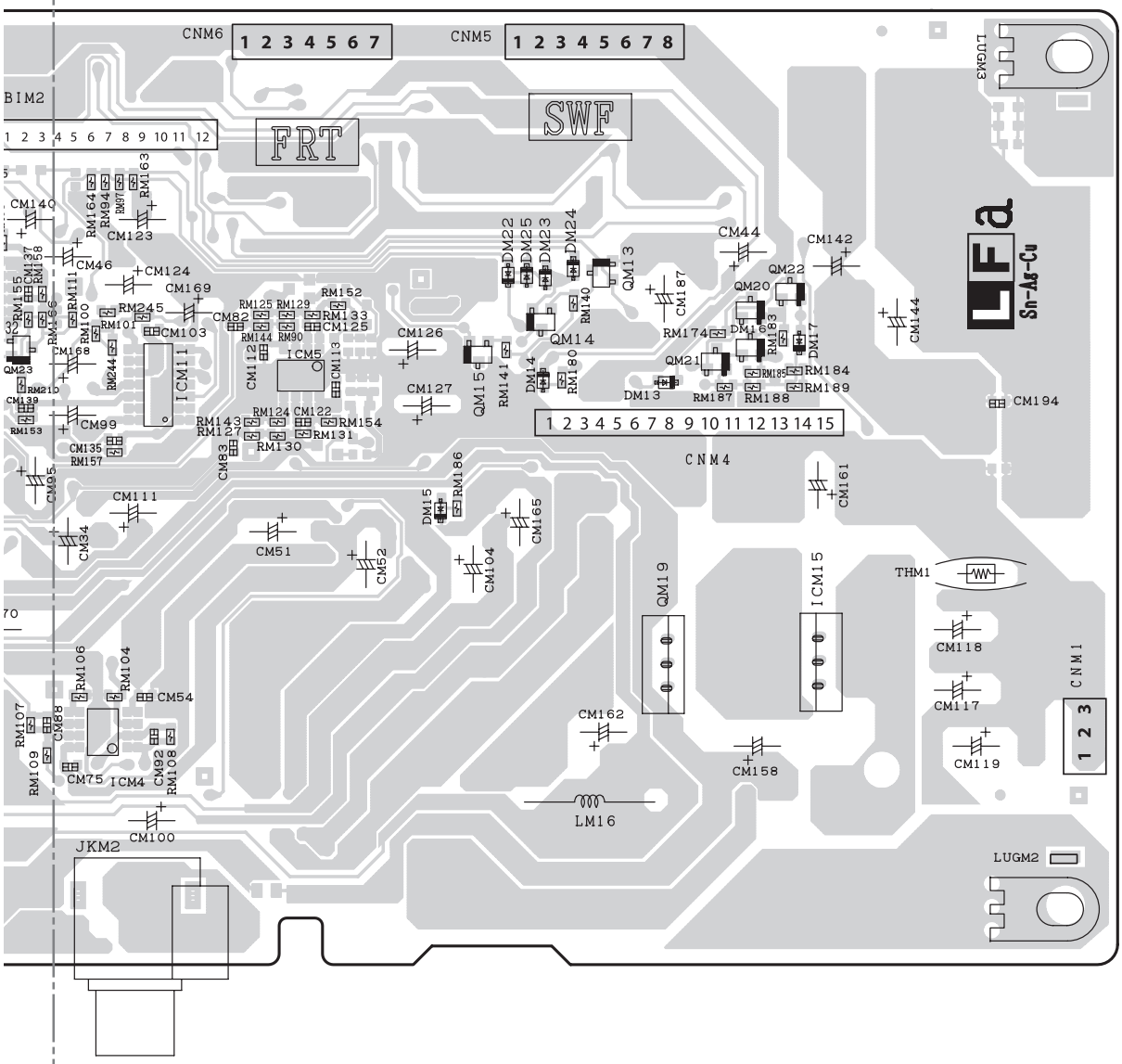


Figure 6-20: WIRING SIDE OF MAIN PWB (TOP VIEW) (2/15)

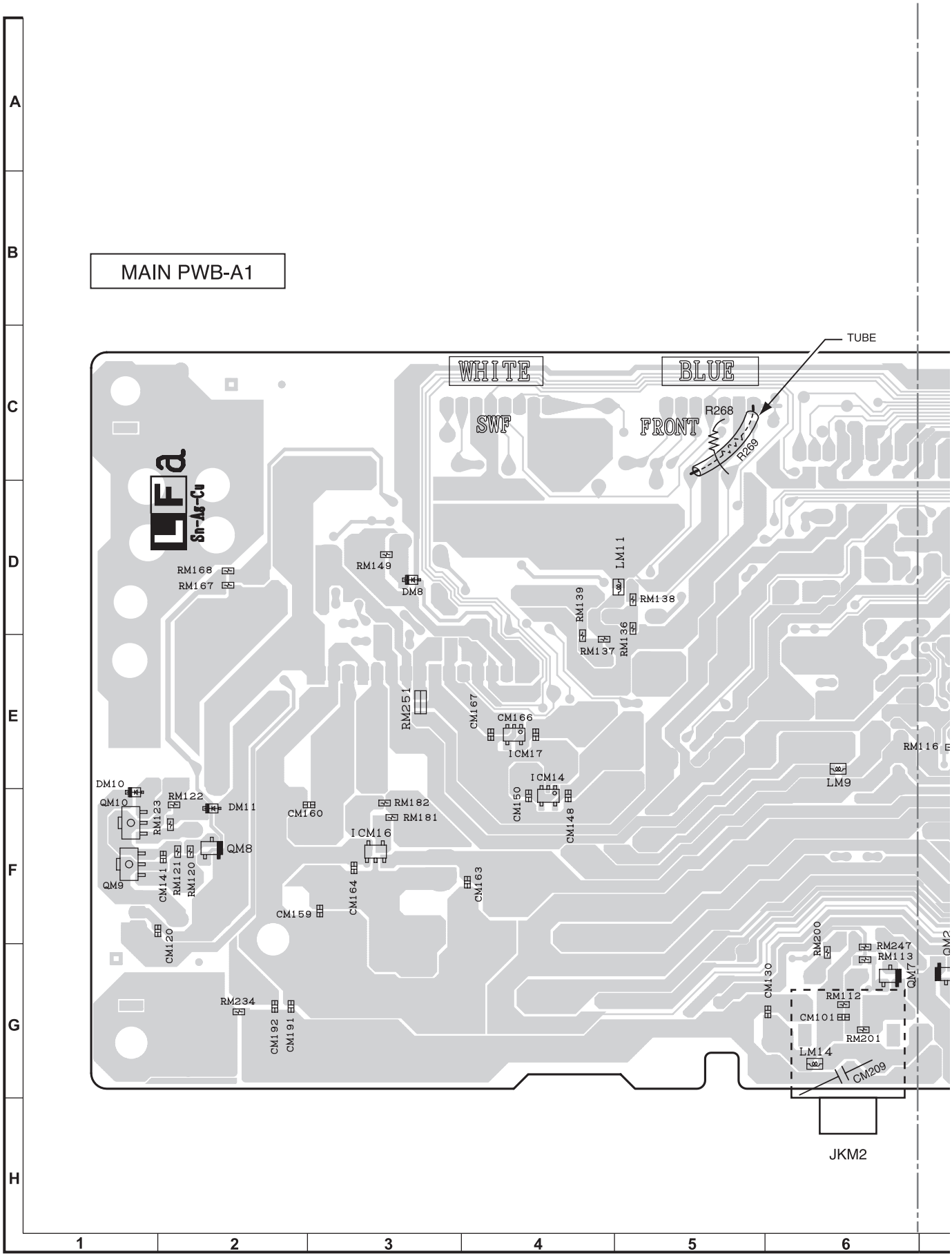


Figure 6-21: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (3/15)

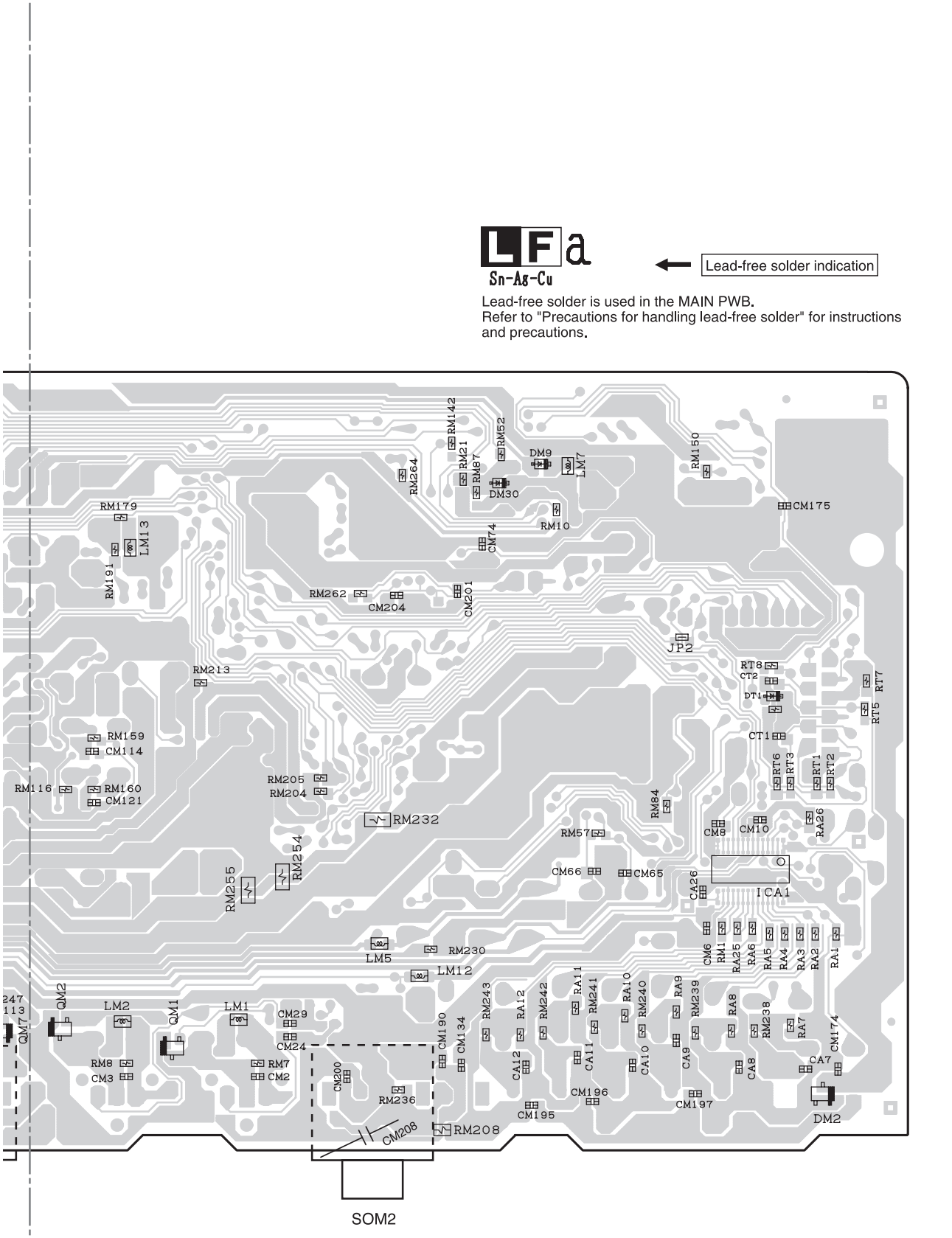


Figure 6-22: WIRING SIDE OF MAIN PWB (BOTTOM VIEW) (4/15)

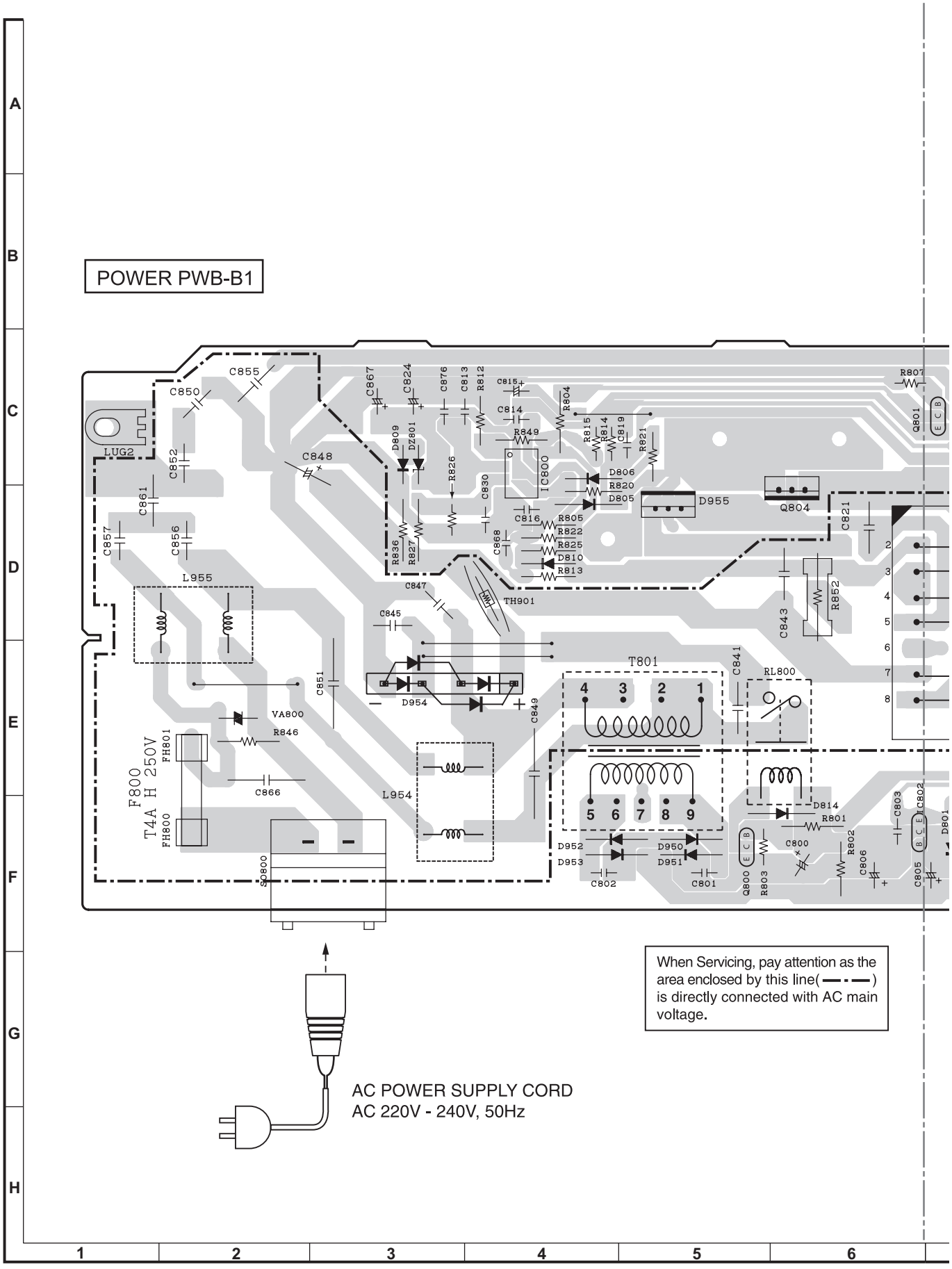


Figure 6-23: WIRING SIDE OF POWER PWB (TOP VIEW) (5/15)

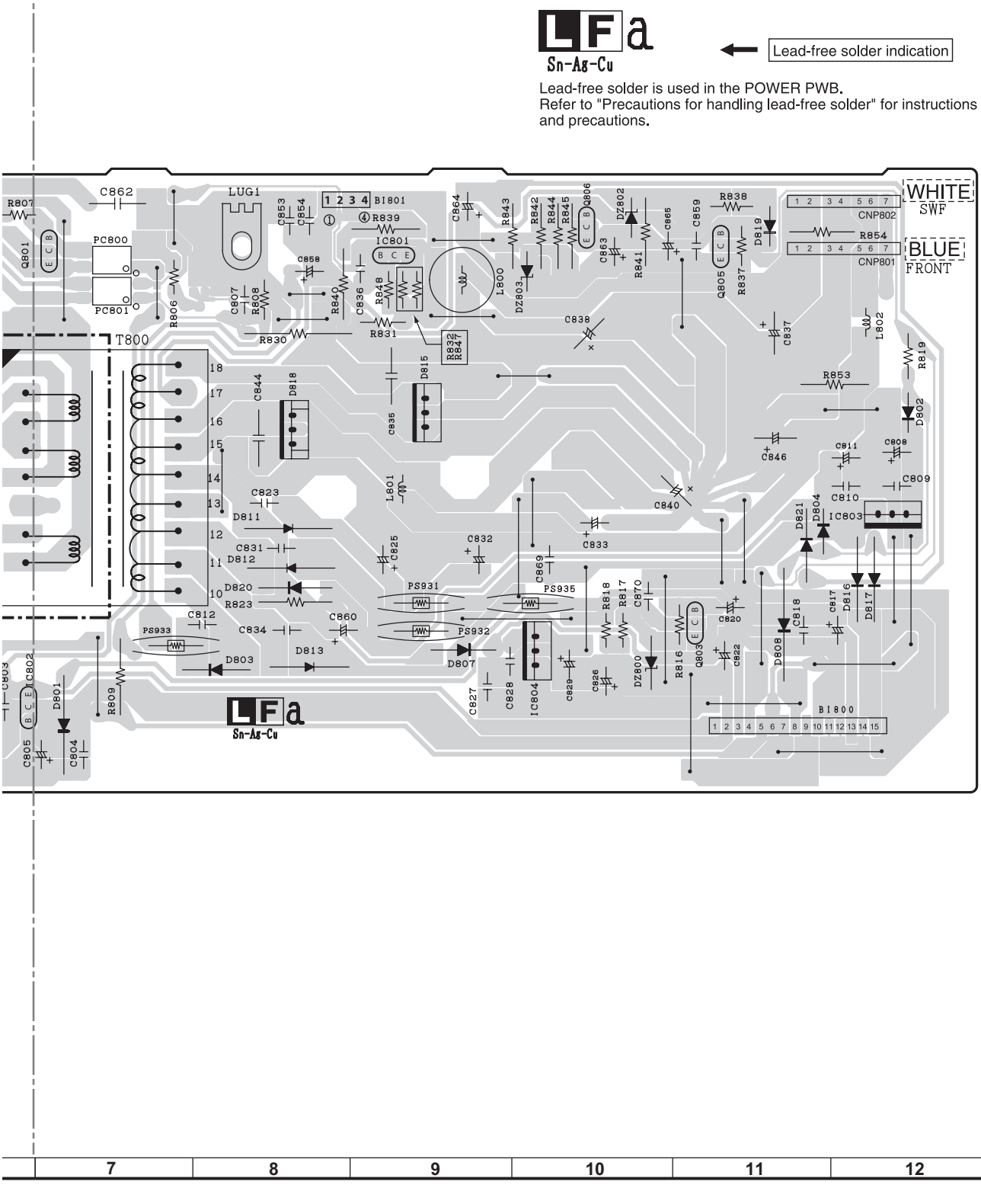


Figure 6-24: WIRING SIDE OF POWER PWB (TOP VIEW) (6/15)

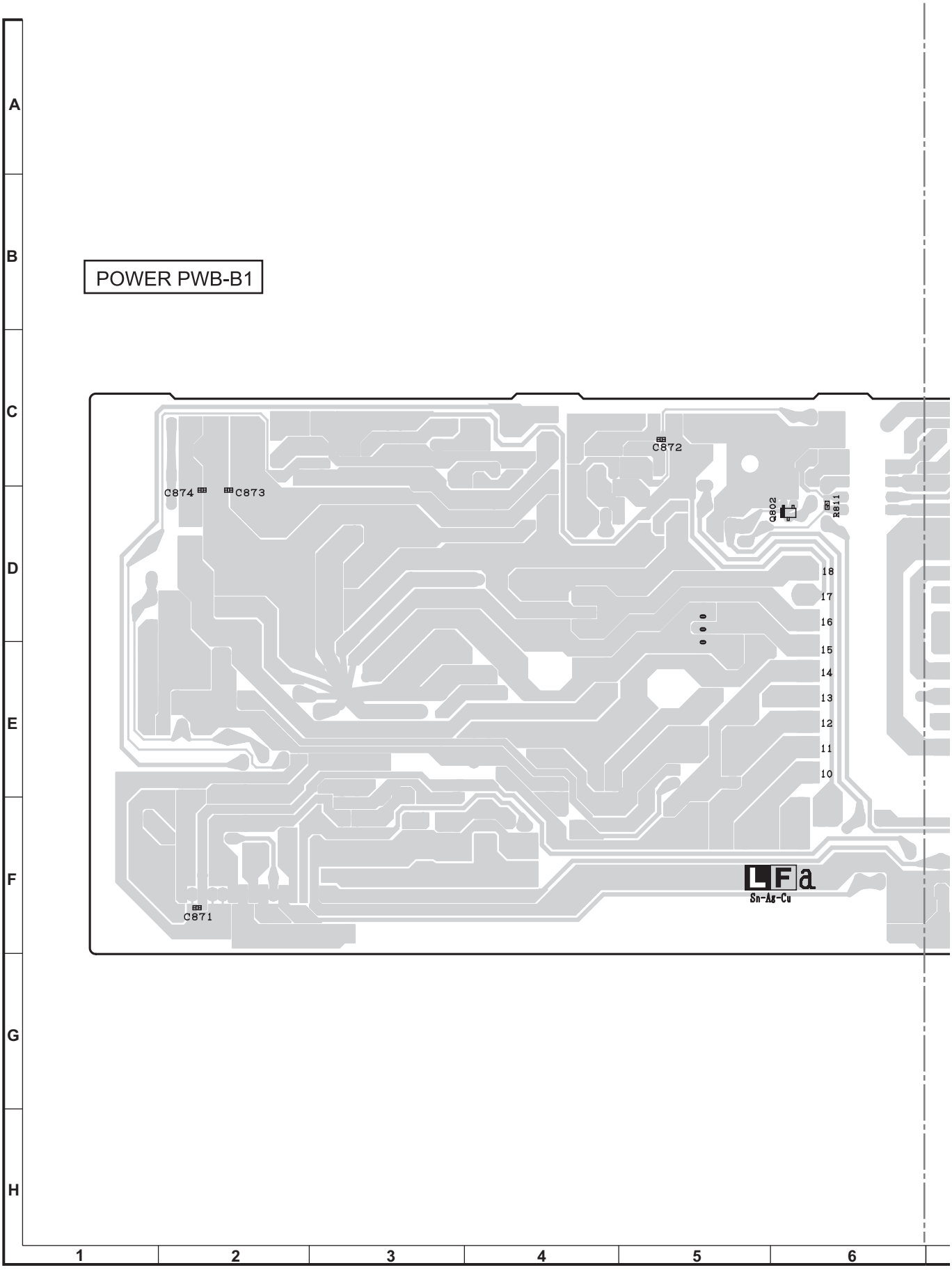


Figure 6-25: WIRING SIDE OF POWER PWB (BOTTOM VIEW) (7/15)

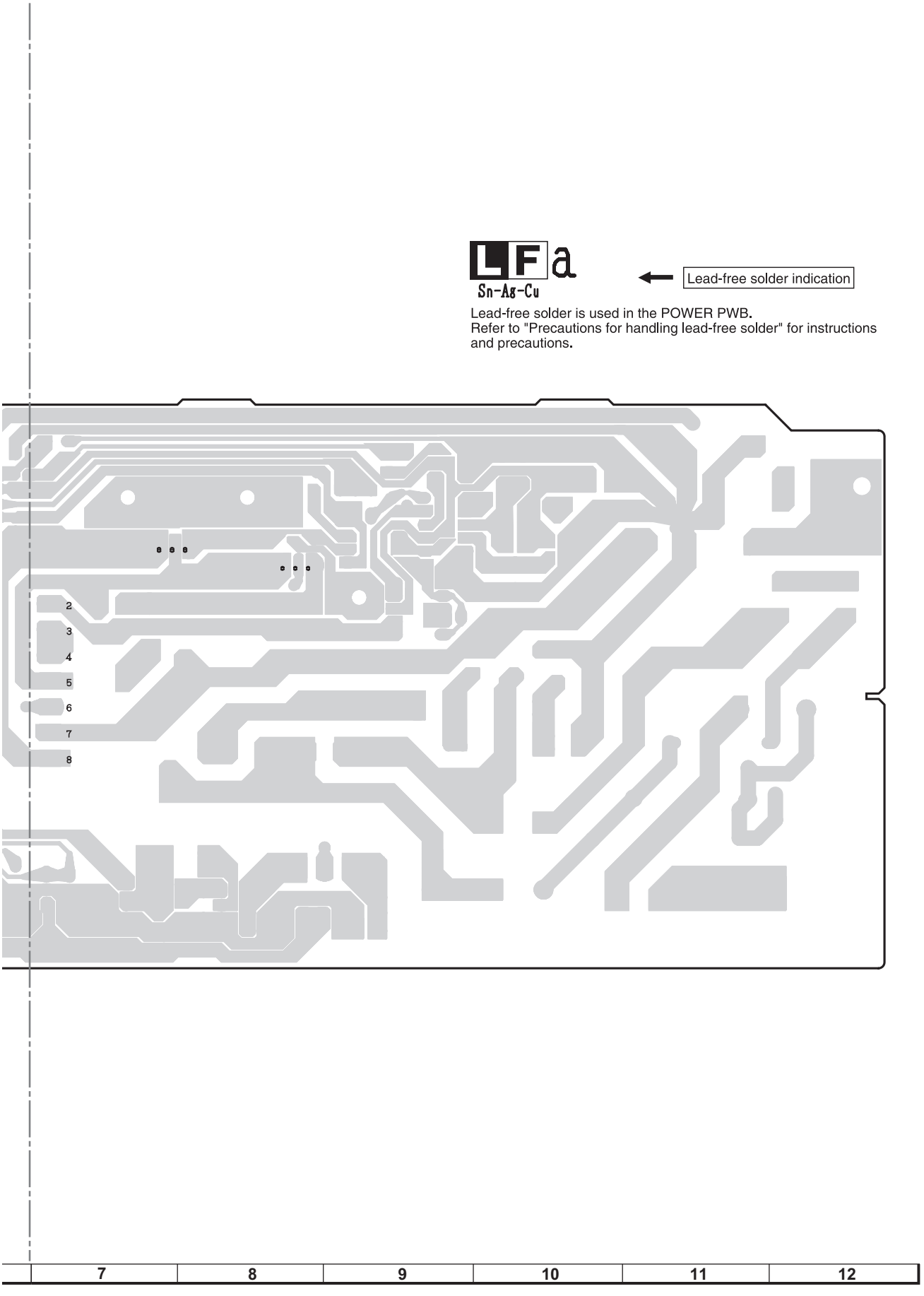


Figure 6-26: WIRING SIDE OF POWER PWB (BOTTOM VIEW) (8/15)

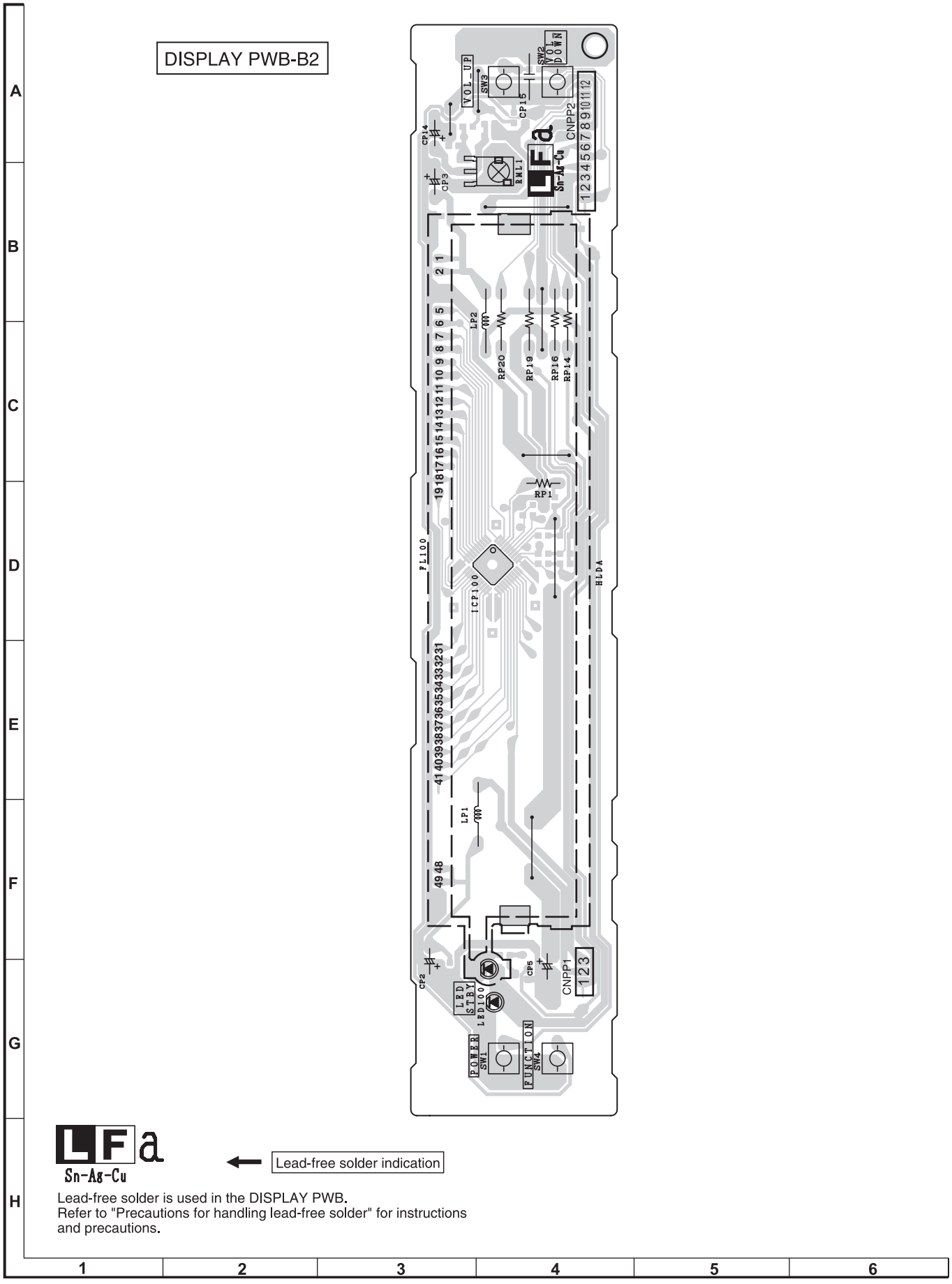


Figure 6-27: WIRING SIDE OF DISPLAY PWB (TOP VIEW) (9/15)

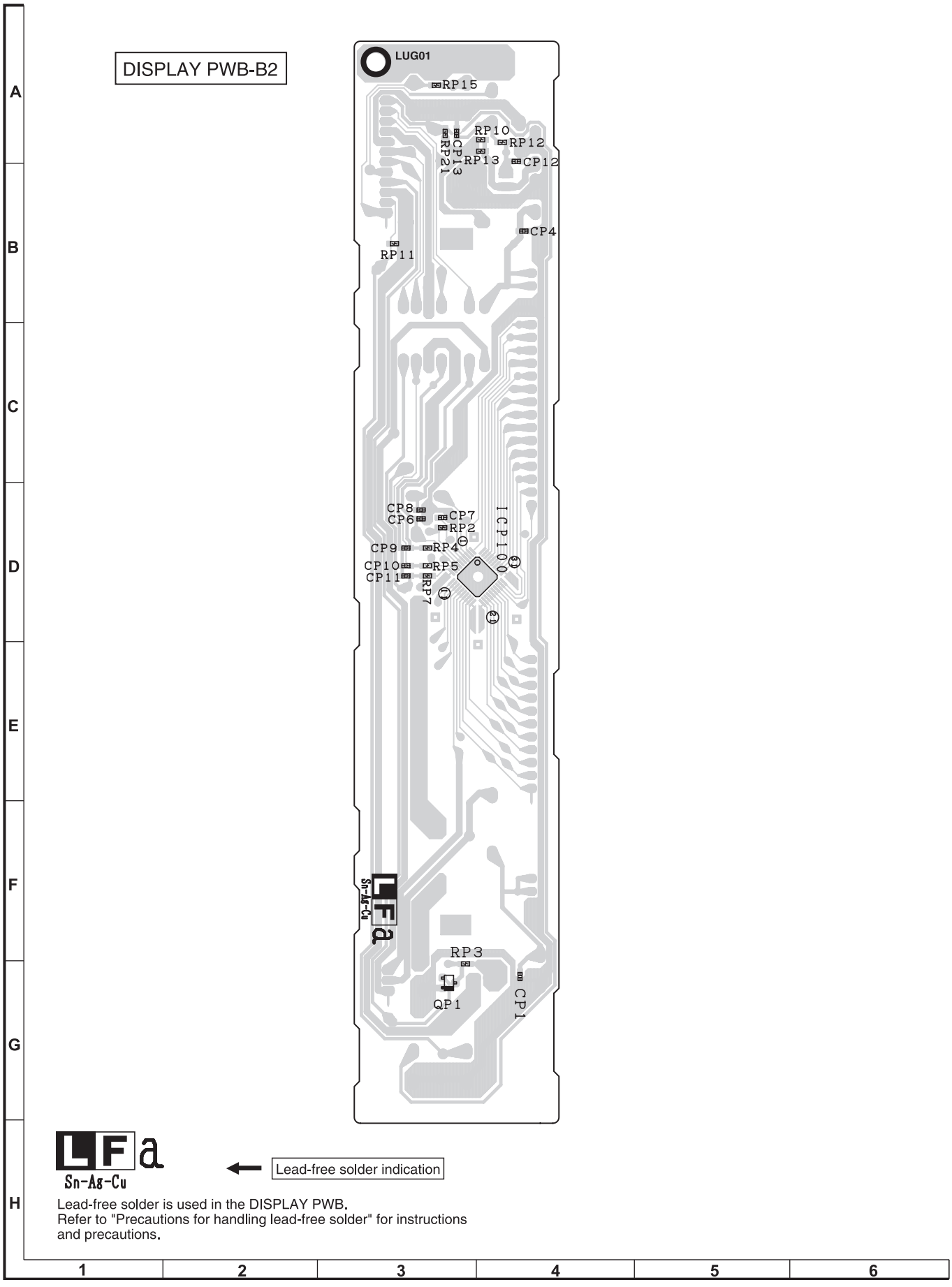


Figure 6-28: WIRING SIDE OF DISPLAY PWB (BOTTOM VIEW) (10/15)

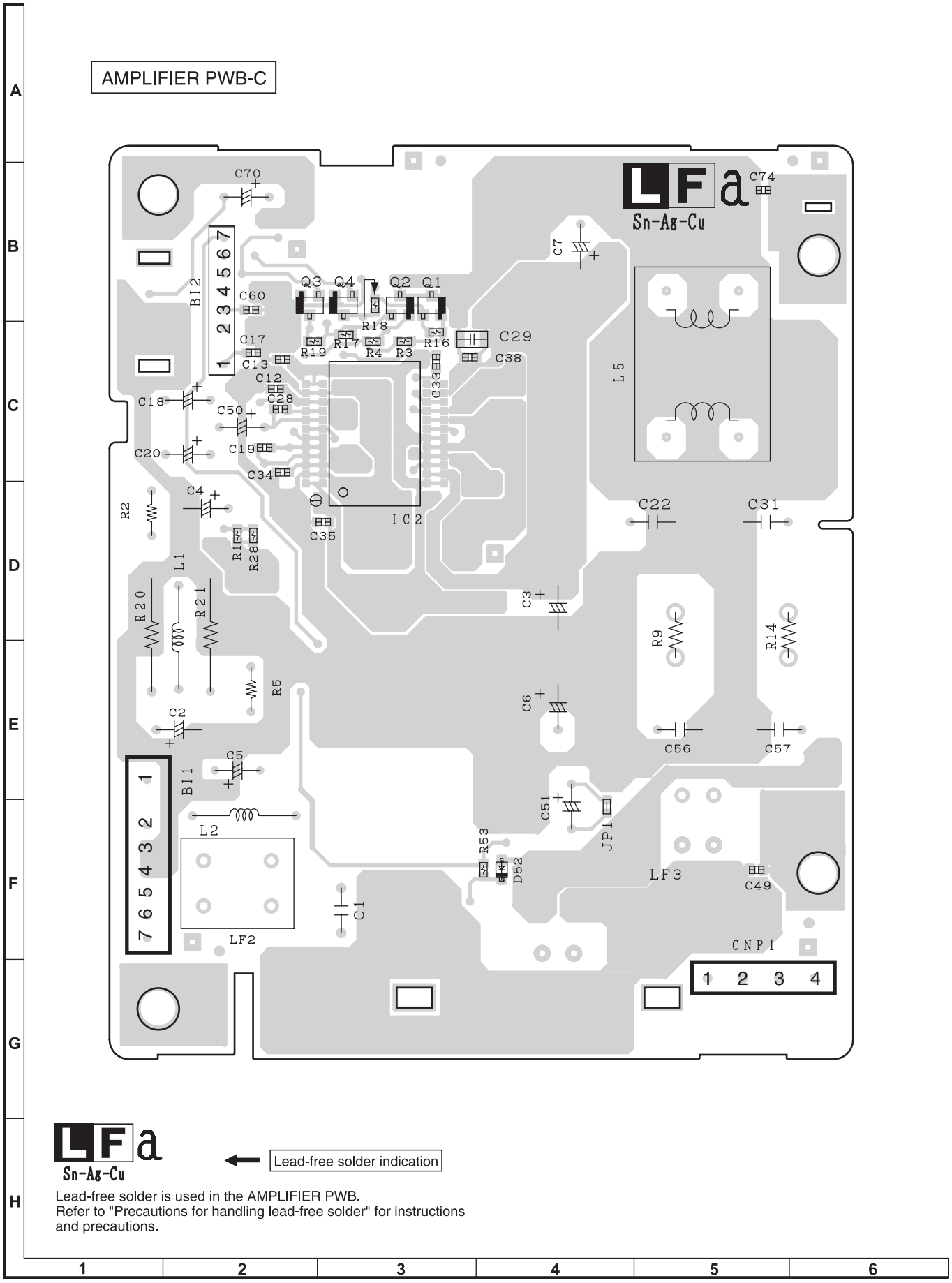


Figure 6-29: WIRING SIDE OF AMPLIFIER PWB (TOP VIEW) (11/15)

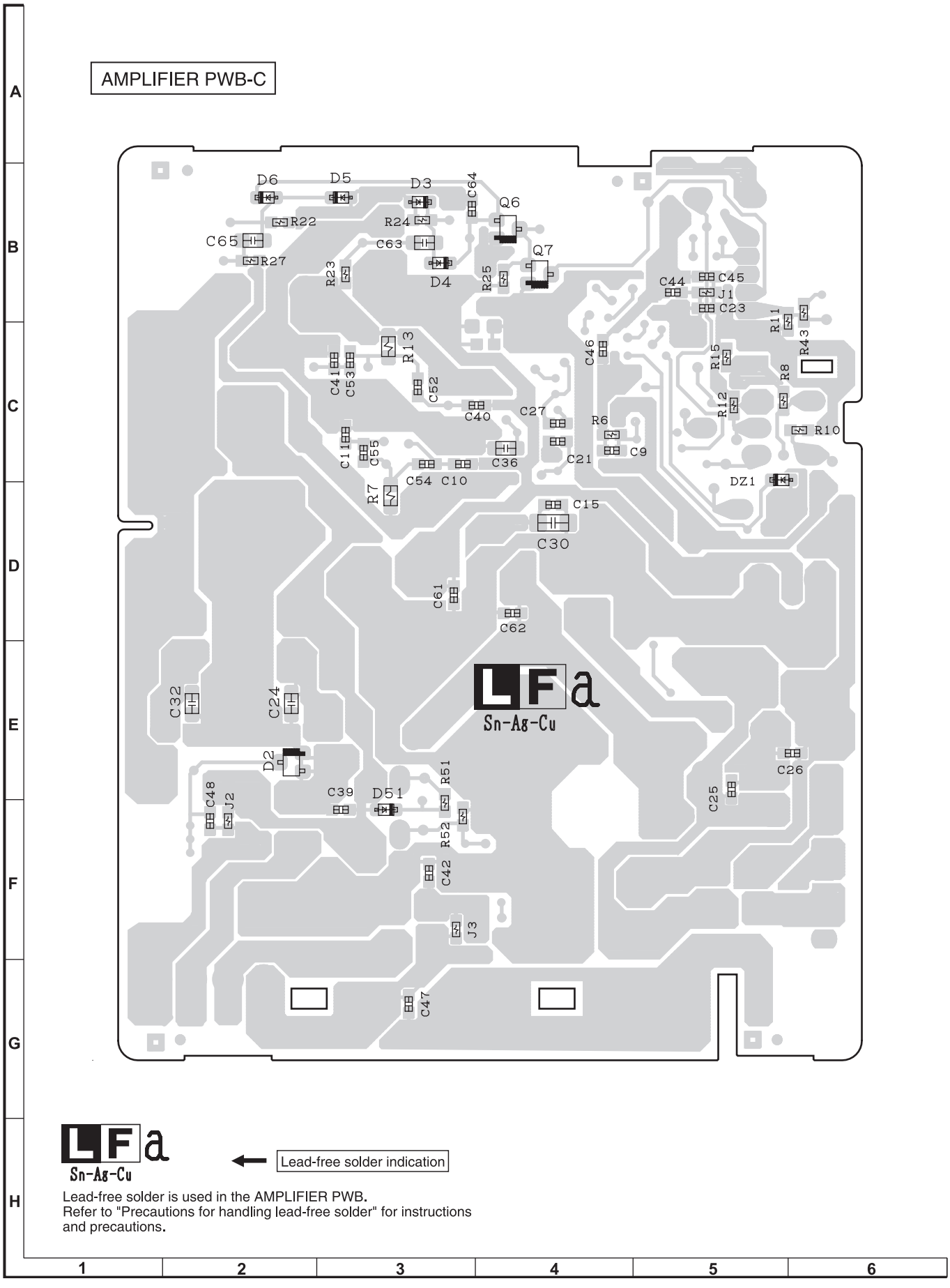
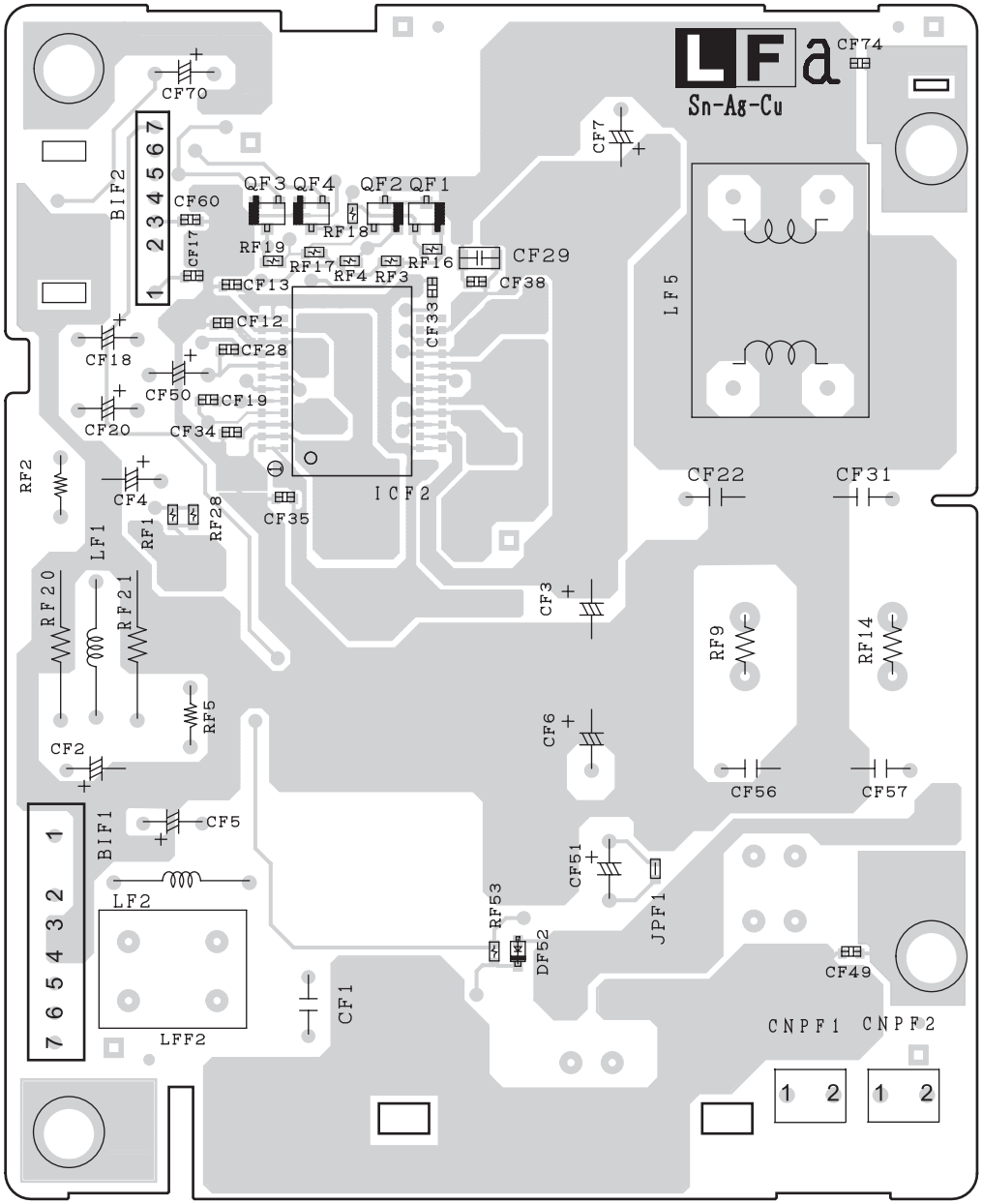


Figure 6-30: WIRING SIDE OF AMPLIFIER PWB (BOTTOM VIEW) (12/15)

SUB WOOFER PWB-D

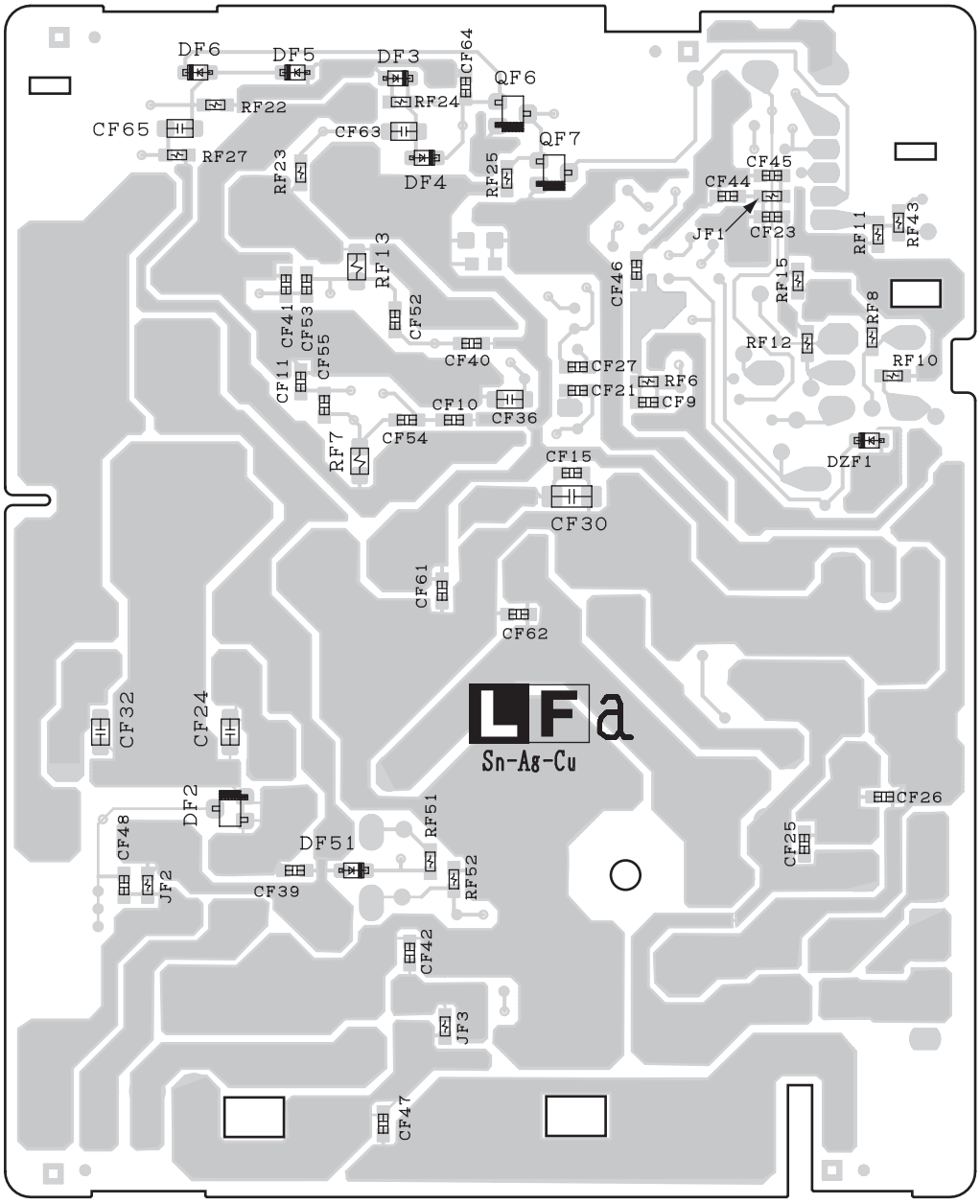


Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the SUB WOOFER PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-31: WIRING SIDE OF SUBWOOFER PWB (TOP VIEW) (13/15)

SUB WOOFER PWB-D



Sn-Ag-Cu ← Lead-free solder indication

Lead-free solder is used in the SUB WOOFER PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-32: WIRING SIDE OF SUBWOOFER PWB (BOTTOM VIEW) (14/15)

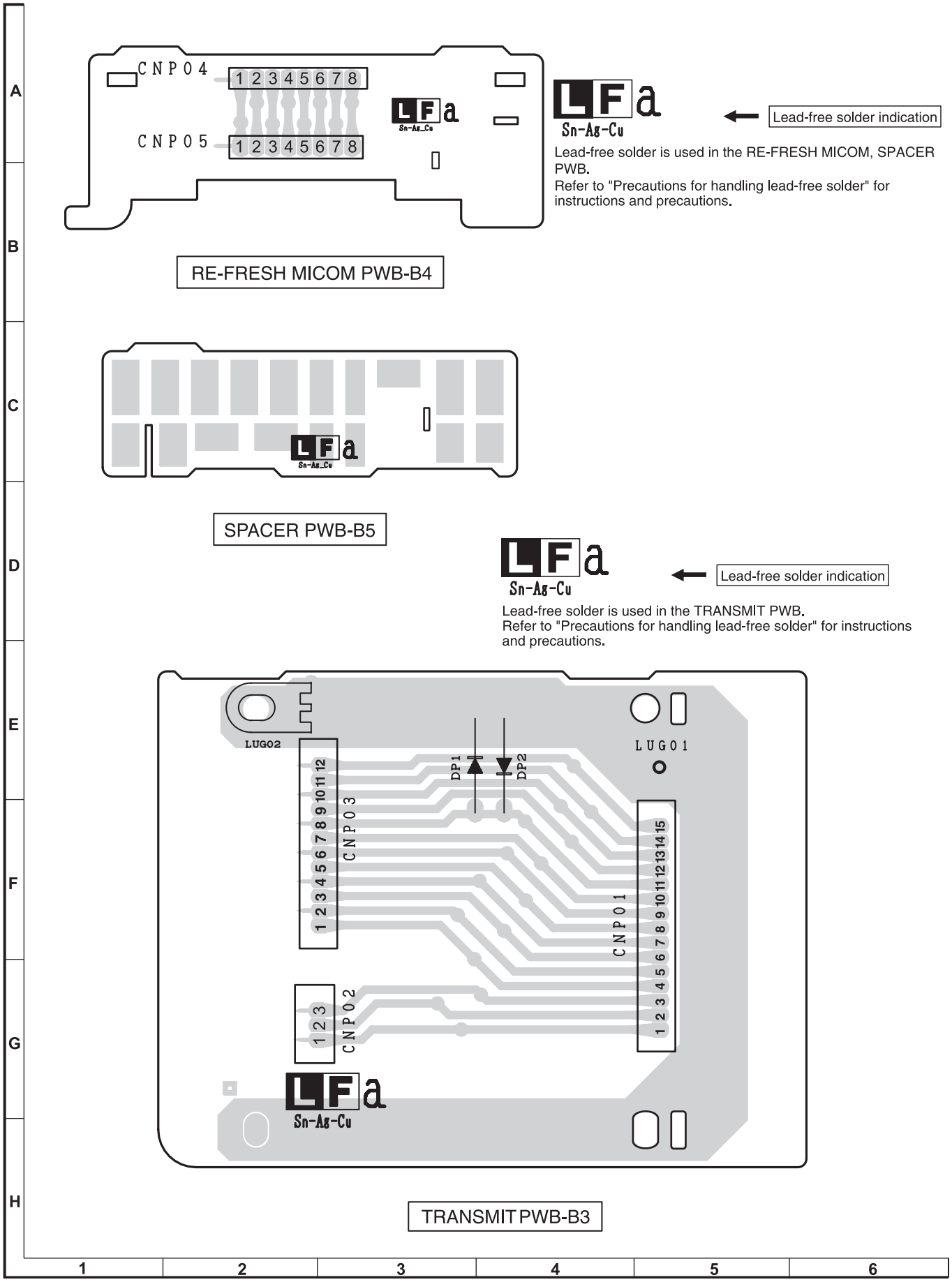


Figure 6-33: WIRING SIDE OF PWB (15/15)

CHAPTER 7. OTHERS

[1] Function Table Of IC

ICM7 RH-IXA105AW00: System Microcomputer (IXA105AW) (1/3)

Device	Pin No.	Terminal Name	Port Name	Input/Output	Function
D-IN SW	1	FUNC_DIG3	P96/ANEX1	Output	DIR_RXP2 : COAXIAL(Coaxial) ="H" OTHER="L"
	2	FUNC_DIG2	P95/ANEX0	Output	DIR_RXP1 : DIN2(Optical2) ="H" OTHER="L"
	3	FUNC_DIG1	P94	Output	DIR_RXP0 : DIN1(Optical1) ="H" OTHER="L"
(RESERVE)	4	FUNC_ANA	P93	Output	Analog Function ="H", OTHER ="L"
FAN	5	FAN_LOCK	P92/TB2IN	Input	[TB2IN]FAN PULSE DETECTING FOR ERROR
POWER	6	SYS_STOP	P91/TB1IN	Input	[TB1IN]AC Power Fail Detection.Change Micom Operation Mode, H → L (LOW→STOP Mode)
(RESERVE)	7	NC	P90/TB0IN	Output	
	8	BYTE	BYTE	Input	Connect to VSS
	9	CNVSS	CNVSS	Input	Using Single Chip Mode. Connect Pull-Down Resistor to VSS.
	10	XCIN	P87/XCIN	Input	SUB CLOCK IN. Connect to 32.768KHz X'tal
	11	XCOUT	P86/XCOUT	Output	SUB CLOCK OUT. Connect to 32.768KHz X'tal
(µcom)	12	RESET	RESET	Input	MICOM IC RESET input. Active "L".
	13	X_OUT	XOUT	Output	MAIN CLOCK OUT. 8.3886MHz Ceramic Resonator
	14	GND	VSS	—	Connect to GND (VSS)
	15	X_IN	X_IN	Input	MAIN CLOCK IN. 8.3886MHz Ceramic Resonator
	16	VCC	VCC1	Input	Micom Supply Input (3.3V). Back-up Supply
	17	NMI	P85/NMI	Input	Connect Pull-UP Resistor to VCC.
AMP	18	NC	P84/INT2	Output	
	19	NC	P83/INT1	Output	
(RESERVE)	20	NC	P82/INT0	Output	
	21	NC	P81	Output	
ENHANCER	22	ENH_MRREQ	P80	Input	AUDISTRY MRREQ L : Normal /H : Communication Error
DIR	23	DIR_GPO0	P77	Input	DIR Output Port monitor, Output Setting Depend on Command to DIR.
	24	DIR_GPO1	P76	Input	DIR Output Port monitor, Output Setting Depend on Command to DIR.
	25	DIR_RESET	P75/TA2IN	Output	DIR IC RESET H : Normal Operation L : RESET
	26	DB_SCP_BSY	P74/TA2OUT	Input	DOLBY IC(OPTION)
DIR	27	DB_SCP_IRQ	P73/CTS2/RTS2/TA1IN	Input	[TA1IN]DOLBY IC(OPTION), EDGE Detection
ENHANCER	28	DOLBY_RESET	P72/CLK2/TA1OUT	Output	RESET
A-S.W&ADC	29	DIR_SCL/AD_SCL/ ENH_SCL	P71/RXD2/SCL2/TA0IN (note 1)	Output	[I2Cbus]DIR/ADC&ANALOG SW/ENHANCER MICOM IF Clock (note 1)Nch Open Drain
	30	DIR_SDA/ AD_SDA/ ENH_SDA	P70/TXD2/SDA2/ TA0OUT (note 1)	Input/Output	[I2Cbus]DIR/ADC&ANALOG SW/ENHANCER MICOM IF Data I/O (note 1)Nch Open Drain
	31	FLASH_TXD/ FLD DATA	P67/TXD1/SDA1	Output	FLASH Writer Send Data Output/FL Driver R8A66021GP Display Data Output
FLASH/ FLD	32	FLASH_RXD	P66/RXD1/SCL1	Input	FLASH Writer Send Data Input
	33	FLASH_SCLK/ FLD SCK	P65/CLK1	Output	FLASH Writer Clock Input/FL Driver R8A66021GP Serial Clock Output.
	34	FLASH_BUSY/ FLD CS	P64/CTS1/RTS1/CTS0/ CLKS1	Output	FLASH Writer BUSY Output. BUSY : “H”/ FL Driver R8A66021GP CS Control Output
DOLBY	35	DB_SDA	P63/TXD0/SDA0	Input / Output	[I2Cbus]DOLBY IC MICOM IF DATA I/O
	36	DB_SCL	P62/RXD0/SCL0	Output	[I2Cbus]DOLBY IC MICOM IF CLOCK
ENHANCER	37	ENH_RSTB	P61/CLK0	Output	AUDISTRY reset
	38	ENH_PWDB	P60/CTS0/RTS0	Output	AUDISTRY Power Down
(µcom)	39	OSC_OUT	P57/CLKOUT	Output	For Checking Freq. Generate.
ENHANCER	40	ENH_BUSY	P56/ALE	Input	AUDISTRY I2CBUSY Output L : Normal /H : Busy
FLASH	41	FLASH_EPM	P55	Input	Connect Pull-Down Resistor to VSS.
EEPROM	42	EEP_SDA	P54	Output	[softI2C]EEPROM DATA I/O
	43	EEP_SCL	P53	Output	[softI2C]EEPROM CLOCK OUTPUT
	44	NC	P52	Output	
	45	EEP-WP	P51	Output	EEPROM WRITE_PROTECT H i-Z : Protect Writing Zone Invalid / L : Writing Enable.
FLASH	46	FLASH_CE	P50	Input	Connect Pull-Down Resistor to VSS.
	47	NC	P47	Output	
VOLUME IC	48	SW_VOL_CLK	P46	Output	Volume IC Clock
	49	SW_VOL_DATA	P45	Output	Volume IC Data

ICM7 RH-IXA105AW00: System Microcomputer (IXA105AW) (2/3)

Device	Pin No.	Terminal Name	Port Name	Input/Output	Function
FLD	50	FLD RESET	P44	Output	FL Driver R8A66021GP Reset Output
	51	AMP_SW_PROT	P43	I_PU	AMP Abnormal Detection H : Normal, L : Abnormal Detect (AMP_SP_RELAY=While High Enable)
	52	NC	P42	Output	
	53	NC	P41	Output	
	54	NC	P40	Output	
	55	NC	P37	Output	
AMP	56	NC	P36	Output	
	57	AMP_SP_RELAY	P35	Output	SPEAKER Relay Control Output, H: Relay ON L:Relay OFF
	58	NC	P34	Output	
	59	S_MUTE	P33	Output	SYSTEM MUTE Control Output, Pre AMP Mute H : MUTE OFF L : MUTE ON
	60	AMP_SW_PWR_DWN	P32	Output	AMP Power Down H : Standby, L : Operate
	61	AMP_SW_MUTE	P31	Output	AMP MUTE Control Output, L : MUTE OFF H : MUTE ON
(µcom)	62	VCC	VCC2	Input	Micom Supply Input (3.3V). Back-up Supply
	63	NC	P30	Output	
(µcom)	64	GND	VSS	—	Connect to GND (VSS).
	65	NC	P27	Output	
	66	NC	P26	Output	
	67	NC	P25	Output	
	68	NC	P24	Output	
	69	NC	P23	Output	
(RESERVE)	70	NC	P22	Output	
	71	NC	P21	Output	
	72	NC	P20	Output	
	73	NC	P17	Output	
	74	NC	P16/INT4	Output	
REMOTE	75	RX-IN	P15/INT3	Input	[INT]SHARP Format, Remote Control Input.
	76	NC	P14	Output	
RDS	77	RDS RDY	P13	Input	RDS READY INPUT
	78	RDS CLK	P12	Output	RDS CLOCK OUTPUT
	79	RDS RST	P11	Output	RDS RAM RESET
	80	RDS DO	P10	Input	RDS DATA INPUT
LED-SINGLE	81	TIMER_LED	P07/AN0_7	Output	TIMER LED (Standby) Contorl Port
POWER	82	AVCK1	P06/AN0_6	Input	[AD]D1.8V Abnormal Voltage Detection
	83	AVCK2	P05/AN0_5	Input	[AD]A1.8V Abnormal Voltage Detection
KEY	84	KEY_FUNCTION	P04/AN0_4	Input	Function Change Key Input
TUNER	85	CCB_DO	P03/AN0_3	Input	Serial Data Input from SANYO CCB Device
	86	CCB_CL	P02/AN0_2	Output	Serial Clock Output from SANYO CCB Device.
	87	CCB_DI	P01/AN0_1	Output	Serial Command Data Output from SANYO CCB Device
	88	CCB_CE	P00/AN0_0	Output	CE Control Output from SANYO CCB Device
MODEL	89	NC	P107/AN7/KI3	Input	
AREA	90	AREA	P106/AN6/KI2	Input	For Destination Detection
POWER	91	SYS-PROTECT	P105/AN5/KI1	Input	[A/D] SYS Abnormal Supply Detection.
KEY	92	KEY_POWER	P104/AN4/KI0	Input	Power Key Input (POWER)
	93	KEY1	P103/AN3	Input	[A/D]Unit Key Input
(RESERVE)	94	MP_SW	P102/AN2	Output	Micom Power Select 1:OFF 0:ON
	95	TUNER_SM	P101/AN1	Input	TUNER IF SIGNAL MONITOR
(µcom)	96	GND	AVSS	—	[A/D] VSS Reference. Connect to GND (VSS).
POWER	97	B_CHECK	P100/A0	Input	[A/D]
(µcom)	98	VREF	VREF	Input	[A/D] Base Reference Voltage Input.
(µcom)	99	AVCC	AVCC	Input	[A/D] Reference Supply Input.
POWER	100	POWER	P97/ADTRG	Output	MAIN POWER CONTROL OUTPUT, H : POWER ON L : POWER OFF

ICM7 RH-IXA105AW00: System Microcomputer (IXA105AW) (3/3)

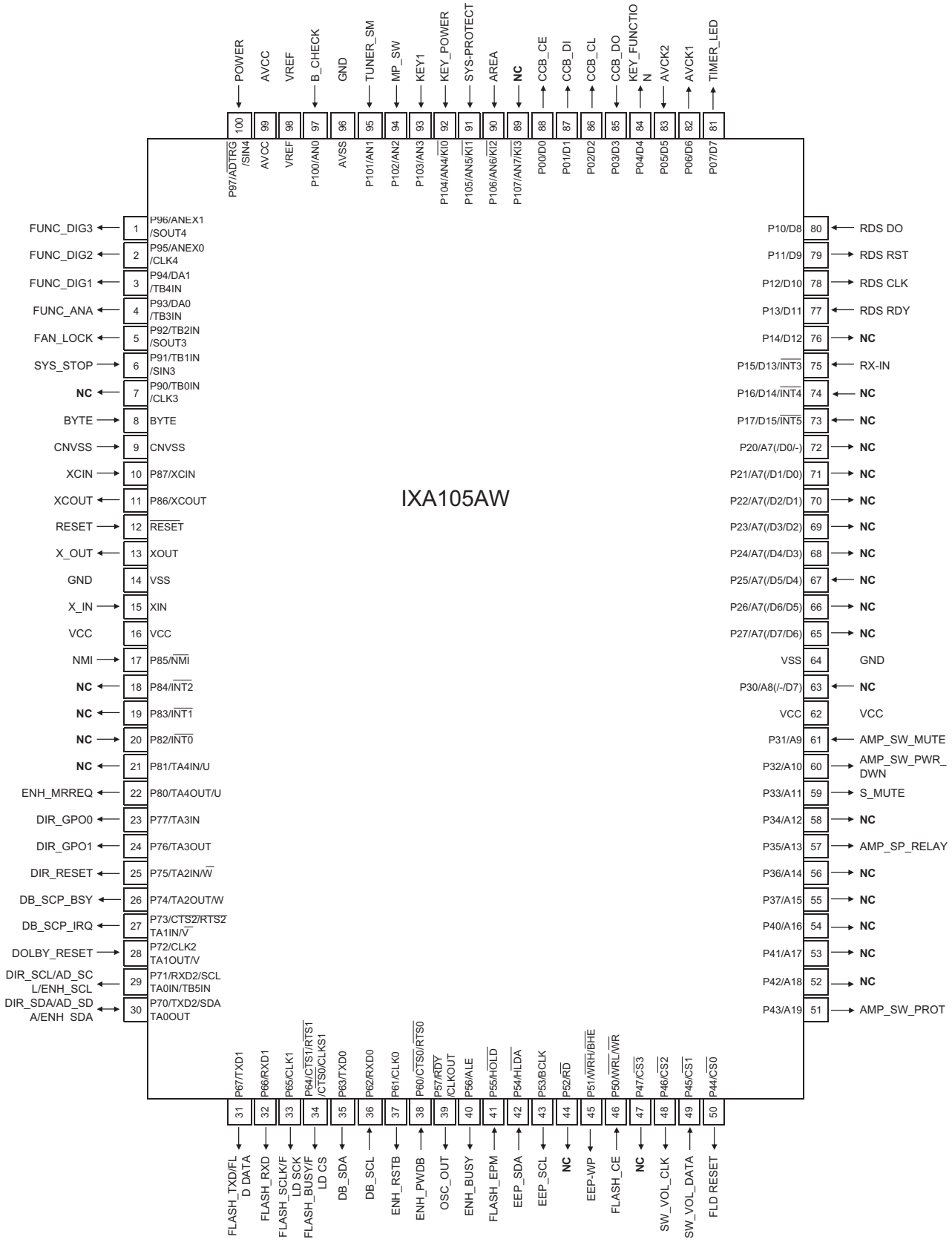


Figure 7-1 BLOCK DIAGRAM OF IC

ICA1 VHiWM8775++-1: A/D Convertor (WM8775)

Pin No.	Terminal Name	Input/Output	Function
1	AIN1L	Input	Channel 1 left input multiplexer virtual ground.
2	BCLK	Input/Output	ADC audio interface bit clock.
3	MCLK	Input	Master ADC clock: 256, 384, 512 or 768 fs (fs = Word clock frequency).
4	DOUT	Output	ACC data output.
5	ADCLRC	Input/Output	ADC left/right word clock.
6	DGND	—	Digital negative power supply.
7	DVDD	—	Digital positive power supply.
8	MODE	Input	Serial interface mode select.
9	CE	Input	Serial interface latch signal.
10	DI	Input/Output	Serial interface data.
11	CL	Input	Serial interface clock.
12*	NC	—	No connection.
13	VMIDADC	Output	ADC mid-rail divider decoupling pin: 10 µF external decoupling.
14	ADCREFGND	—	ADC negative power supply and PWB connection.
15	ADCREFP	Output	ADC positive reference decoupling pin: 10 µF external decoupling.
16	AVDD	—	Analog positive power supply.
17	AGND	—	ADC negative power supply and PWB connection.
18	AINVGR	Input	Right channel multiplexer ground.
19	AINOPR	Output	Right channel multiplexer output.
20	AINVGL	Input	Left channel multiplexer ground.
21	AINOPL	Output	Left channel multiplexer output.
22	AIN4R	Input	Channel 4 right input multiplexer ground.
23	AIN4L	Input	Channel 4 left input multiplexer ground.
24	AIN3R	Input	Channel 3 right input multiplexer ground.
25	AIN3L	Input	Channel 3 left input multiplexer ground.
26	AIN2R	Input	Channel 2 right input multiplexer ground.
27	AIN2L	Input	Channel 2 left input multiplexer ground.
28	AIN1R	Input	Channel 1 right input multiplexer ground.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

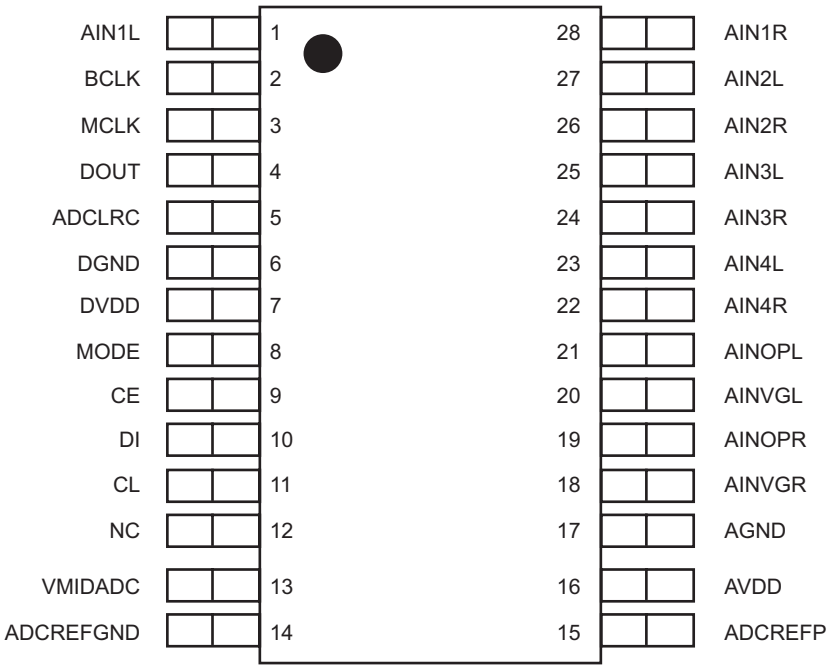


Figure 7-2 BLOCK DIAGRAM OF IC

ICM3 VHiCS8416CN-1: DIR (CS8416CN)

Pin No.	Terminal Name	Function
1*	RXP3	Positive AES3/SPDIF input (Input) - Single-ended/differential receiver inputs carrying AES3 or S/PDIF coded digital data.
2	RXP2	
3	RXP1	
4	RXP0	
5	RXN	Negative AES3/SPDIF input (Input) - Single-ended/differential receiver inputs carrying AES3 or S/PDIF coded digital data.
6	VA	Analog power supply (Input) - Analog power supply. + 3.3 V normally.
7	AGND	Analog ground (Input) - Ground for chip analog circuit.
8	FILT	PLL loop filter (Output) - RC network is connected between this pin and the analog ground.
9	RST	Reset (Input) - When RST is low, CS8416 enters the low power mode and every internal state is reset.
10*	RXP4	Positive AES3/SPDIF input (Input) - Single-ended/differential receiver inputs carrying AES3 or S/PDIF coded digital data.
11*	RXP5	
12*	RXP6	
13*	RXP7	
14	AD0/CS	Address bit (I^2C)/control port chip select (SPI) (Input) - On the falling edge of this pin, CS8416 enters the SPI control port mode. In a position other than the falling edge, SC8416 enters the default I^2C mode.
15	AD1/CDIN	Address bit (I^2C)/ serial control data input (Input). In the I^2C mode, AD1 is a chip address pin.
16	SCL/CCLK	Control port clock (Input). Serial control interface clock is used for clock control of data bit in or from CS 8416.
17	SDA/CDOUT	Serial control data input/output (I^2C)/data output (SPI) (input/output). In the I^2C mode, SDA is a control input/output data line.
18	AD2/GPO2	Output 2 (Output). When using the I^2C control port, 45 kΩ. resistor makes this pin high or low.
19	GPO1	Output 1 (Output).
20	GPO0	Output 0 (Output).
21	VL	Logic power supply (Input) - Input/output power supply. + 3.3 V or 5.0 V normally.
22	DGND	Digital and input/output ground (Input) - Ground for input/output and core logic.
23	VD	Digital power supply (Input). Digital core power supply. + 3.3 V normally.
24	RMCK	Input select recovered master clock (Output). Input select recovered master clock output from PLL.
25	OMCK	System clock (Input) - When the OMCK system clock mode is active by using SWCLD bit of the control 1 register, clock signal input of this pin is automatically output via RMCK of PLL unlock.
26	SDOUT	Serial audio output data (Output) - Audio data serial output pin.
27	OSCLK	Serial audio output bit clock (Input/output) - Serial bit clock for audio data of SDOUT pin.
28	OLRCK	Serial audio output left/right clock (Input/output) - Word-rate clock for audio data of SDOUT pin.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

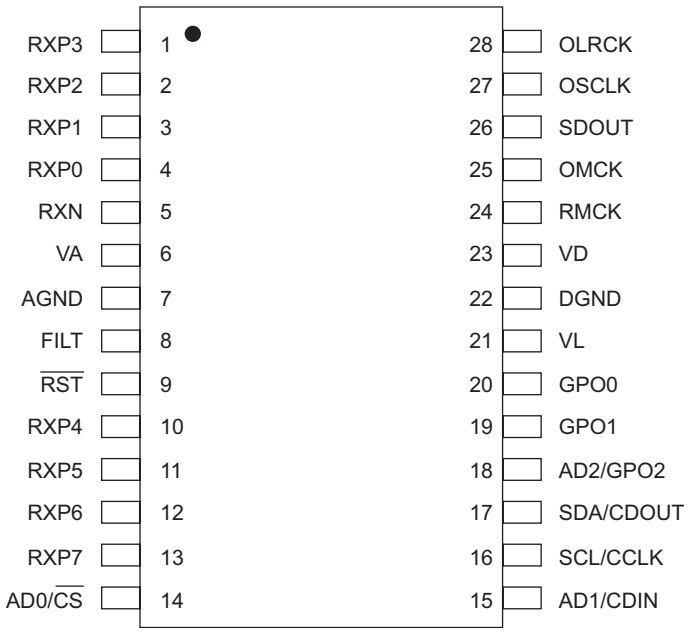


Figure 7-3 BLOCK DIAGRAM OF IC

ICM6 VHiCS49510+-1: DSP (CS49510) (1/3)

Pin No.	Terminal Name	Default Function	Secondary Description
1*	GPIO28	Input/Output	Channel status word clock input.
2	GPIO29	Input/Output	1. Channel status data input. 2. SPDIF pass-through input.
3*	DBDA	Debug data	Debug data.
4*	DBCK	Debug clock	Debug clock.
5*	GPIO21	General-purpose input/output	1. Serial PCM audio data output synchronized with DAO2_SCLK/ DAO2_LRCLK (Pin 14). 2. IEC60958/61397 type 2-phase mark coded SPDIF data.
6*	GPIO20	General-purpose input/output	1. Serial PCM audio data output synchronized with DAO2_SCLK/ DAO2_LRCLK. 2. EEPROM boot chip select.
7*	GPIO19	General-purpose input/output	Serial PCM audio data output synchronized with DAO2_SCLK/ DAO2_LRCLK.
8	DAO_MCLK	Audio master clock	Audio master clock.
9	TEST	Test	Test
10	VDDD1	Core power supply voltage	Core power supply voltage.
11	GPIO18	General-purpose input/output	1. Serial PCM audio data output synchronized with DAO2_SCLK/ DAO2_LRCLK. 2. Hardware strap mode select.
12*	GPIO22	General-purpose input/output	Serial PCM audio bit clock for serial data pin. (DAO2_DATA0, DAO2_DATA1, DAO2_DATA2, DAO2_DATA3)
13	GNDD1	Core ground	Core ground.
14*	GPIO23	General-purpose input/output	Serial PCM audio sample rate for serial data pin. (DAO2_DATA0, DAO2_DATA1, DAO2_DATA2, DAO2_DATA3)
15*	GPIO17	General-purpose input/output	1. Digital audio output 4. 2. S/PDIF audio A.
16	GPIO16	General-purpose input/output	1. Digital audio output 3. 2. Hardware strap mode select.
17	GPIO15	General-purpose input/output	1. Digital audio output 2. 2. Hardware strap mode select.
18	VDDIO1	Input/output power supply voltage	Input/output power supply voltage.
19	DAO1_DATA0	Digital audio output 1	Hardware strap mode select.
20	DAO1_SCLK	PCM audio output bit clock	PCM audio output bit clock.
21	GNDIO1	Input/output ground	Input/output ground.
22	DAO1_LRCLK	Audio output sample rate (left/ right) clock	Audio output sample rate (left/right) clock.
23*	GPIO31	General-purpose input/output	UART clock.
24	VDDD2	Core power supply voltage	Core power supply voltage.
25*	GPIO25	General-purpose input/output	UART output.
26*	GPIO24	General-purpose input/output	UART input.
27	GNDD2	Core ground	Core ground.
28*	SD_DQM0#	SDRAM data mask 0	SDRAM data mask 0.
29*	SD_D7	SRAM data bit 7	SRAM data bit 15.
30*	SD_D6	SRAM data bit 6	SRAM data bit 14.
31*	SD_D5	SRAM data bit 5	SRAM data bit 13.
32*	SD_D4	SRAM data bit 4	SRAM data bit 12.
33	VDDIO2	Input/output power supply voltage	Input/output power supply voltage.
34*	SD_D3	SRAM data bit 3	SRAM data bit 11.
35*	SD_D2	SRAM data bit 2	SRAM data bit 10.
36	GNDIO2	Input/output ground	Input/output ground
37*	SD_D1	SRAM data bit 1	SRAM data bit 9.
38*	EXT_WE#	SDRAM write enable	SDRAM write enable.
39*	SD_D0	SRAM data bit 0	SRAM data bit 8.
40*	SD_D15	SRAM data bit 15	SRAM data bit 7.
41*	SD_D14	SRAM data bit 14	SRAM data bit 6.
42*	SD_D13	SRAM data bit 13	SRAM data bit 5.
43*	SD_D12	SRAM data bit 12	SRAM data bit 4.
44	VDDIO3	Input/output power supply voltage	Input/output power supply voltage.
45*	SD_D11	SRAM data bit 11	SRAM data bit 3.
46*	SD_D10	SRAM data bit 10	SRAM data bit 2.
47	GNDIO3	Input/output ground	Input/output ground
48*	SD_D9	SRAM data bit 9	SRAM data bit 1.
49*	SD_D8	SRAM data bit 8	SRAM data bit 0.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICM6 VHiCS49510+-1: DSP (CS49510) (2/3)

Pin No.	Terminal Name	Default Function	Secondary Description
50*	SD_DQM1#	SDRAM data mask 1	SDRAM data mask 1.
51*	SD_CLKOUT	SDRAM clock output	SDRAM clock output.
52	SD_CLKIN	SDRAM clock input	SDRAM clock input.
53*	SD_CLKEN	SDRAM clock enable	SDRAM clock enable.
54	VDDD3	Core power supply voltage	Core power supply voltage.
55*	SD_A12	SRAM address bit 12	SRAM address bit 12.
56*	SD_A11	SRAM address bit 11	SRAM address bit 11.
57	GNDD3	Core ground	Core ground.
58*	SD_A9	SRAM address bit 9	SRAM address bit 9.
59*	SD_A8	SRAM address bit 8	SRAM address bit 8.
60	VDDIO4	Input/output power supply voltage	Input/output power supply voltage.
61*	SD_A7	SRAM address bit 7	SRAM address bit 7.
62*	SD_A6	SRAM address bit 6	SRAM address bit 6.
63	GNDIO4	Input/output ground	Input/output ground.
64*	SD_A5	SRAM address bit 5	SRAM address bit 5.
65*	EXT_CS2#	SRAM chip select 2	SRAM chip select 2.
66	VDDD4	Core power supply voltage	Core power supply voltage.
67*	SD_A4	SRAM address bit 4	SRAM address bit 4.
68*	SD_A3	SRAM address bit 3	SRAM address bit 3.
69	GNDD4	Core ground	Core ground.
70*	SD_A2	SRAM address bit 2	SRAM address bit 2.
71*	SD_A1	SRAM address bit 1	SRAM address bit 1.
72*	SD_A0	SRAM address bit 0	SRAM address bit 0.
73	VDDIO5	Input/output power supply voltage	Input/output power supply voltage.
74*	SD_A10	SRAM address bit 10	SRAM address bit 10.
75*	SD_A14	SRAM address bit 14	SRAM address bit 14.
76	GNDIO5	Input/output ground	Input/output ground.
77*	SD_A13	SRAM address bit 13	SRAM address bit 13.
78*	SD_WE#	SDRAM write enable	SDRAM write enable.
79*	SD_CAS#	SDRAM column address strobe	SDRAM column address strobe.
80*	SD_RAS#	SDRAM low address strobe	SDRAM low address strobe.
81*	SD_CS#	SRAM chip select	SRAM chip select.
82*	EXT_A15	SRAM address bit 15	SRAM address bit 15.
83	VDDD5	Core power supply voltage	Core power supply voltage.
84*	EXT_A16	SRAM address bit 16	SRAM address bit 16.
85*	EXT_A17	SRAM address bit 17	SRAM address bit 17.
86	GNDD5	Core ground	Core ground.
87*	EXT_A18	SRAM address bit 18	SRAM address bit 18.
88*	EXT_A19	SRAM address bit 19	SRAM address bit 19.
89*	EXT_OE#	SDRAM output enable	SDRAM output enable.
90*	EXT_CS1#	Active low chip select for SRAM mode	Active low chip select for SRAM mode.
91	VDDIO6	Input/output power supply voltage	Input/output power supply voltage.
92	GPIO30	Input/Output	1. Channel status user data input. 2. SPDIF pass-through input.
93	RESET#	Chip reset	Chip reset.
94	GNDIO6	Input/output ground	Input/output ground.
95*	GPIO33	Input/Output	SPI mode master data output/ slave data input.
96*	GPIO32	Input/Output	SPI chip select.
97	GPIO34	Input/Output	1. SPI mode master data output. 2. I^2C mode master/slave data input/output.
98	VDDD6	Core power supply voltage	Core power supply voltage.
99	GPIO35	Input/Output	SPI/I^2C control port clock.
100	GPIO36	Input/Output	Serial control port data ready interrupt request.
101	GNDD6	Core ground	Core ground.
102	GPIO37	Input/Output	1. Serial control port 1 input busy. 2. Parallel control port input busy.
103	GPIO38	Input/Output	1. Parallel port write select. 2. Parallel port data strobe. 3. SPI/I^2C control port clock.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICM6 VHiCS49510+-1: DSP (CS49510) (3/3)

Pin No.	Terminal Name	Default Function	Secondary Description
104*	GPIO39	Input/Output	1. Parallel port chip select. 2. SPI chip select.
105	GPIO11	Input/Output	1. Parallel control port address bit 3. 2. Parallel control port address strobe. 3. SPI mode master data input /slave data output. 4. I^2C mode master/slave data input/output.
106*	GPIO10	Input/Output	1. Parallel control port address bit 2. 2. Parallel control port address bit 10. 3. SPI mode master data output /slave data input.
107*	GPIO40	Input/Output	1. Parallel read select. 2. Parallel read/write select.
108*	GPIO41	Input/Output	1. Parallel control port data ready interrupt request. 2. Serial control port data ready interrupt request.
109*	GPIO9	Input/Output	1. Parallel control port address bit 1. 2. Parallel control port address bit 9.
110*	GPIO8	Input/Output	1. Parallel control port address bit 0. 2. Parallel control port address bit 8.
111*	GPIO7	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
112*	GPIO6	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
113	VDDIO7	Input/output power supply voltage	Input/output power supply voltage.
114*	GPIO5	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
115*	GPIO4	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
116	GNDIO7	Input/output ground	Input/output ground.
117*	GPIO3	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
118*	GPIO2	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
119	VDDD7	Core power supply voltage	Core power supply voltage.
120*	GPIO1	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
121*	GPIO0	Input/Output	1. Parallel control port data bus. 2. Parallel control port multiplex address and data bus.
122	GNDD7	Core ground	Core ground.
123	XTAL_OUT	Buffered reference clock input/ crystal oscillator input	Buffered reference clock input/crystal oscillator input.
124	XTI (4)	Reference clock input/crystal oscillator input	Reference clock input/crystal oscillator input.
125	XTO (4)	Crystal oscillator output 1	Crystal oscillator output 1.
126	GNDA	PLL ground	PLL ground.
127	FILT2	Phase lock loop filter for PLL	Phase lock loop filter for PLL.
128	FILT1	Phase lock loop filter for PLL	Phase lock loop filter for PLL.
129	VDDA	PLL power supply	PLL power supply.
130	VDDD8	Core power supply voltage	Core power supply voltage.
131	GPIO14	Input/Output	PCM audio input data 3.
132	GPIO13	Input/Output	PCM audio input data 2.
133	GNDD8	Core ground	Core ground.
134	GPIO12	Input/Output	PCM audio input data 1.
135*	DAI1_DATA0	PCM audio input data 0	PCM audio input data 0.
136	VDDIO8	Input/output power supply voltage	Input/output power supply voltage.
137*	DAI1_SCLK	PCM audio input bit clock	PCM audio input bit clock.
138*	DAI1_LRCLK	PCM audio input sample rate (left/right) clock	PCM audio input sample rate (left/right) clock.
139	GNDIO8	Input/output ground	Input/output ground.
140	GPIO42	Input/Output	1. PCM audio input sample rate (left/right) clock. 2. Compressed audio input request. 3. Parallel control port data ready interrupt request. 4. Parallel control port input busy.
141	GPIO43	Input/Output	1. PCM audio input bit clock. 2. Audio input bit clock.
142	DAI2_DATA4	PCM Audio input data	Audio input data.
143*	GPIO27	Input/Output	SPDIF receiver unlock interrupt input.
144*	GPIO26	Input/Output	Brick interrupt input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

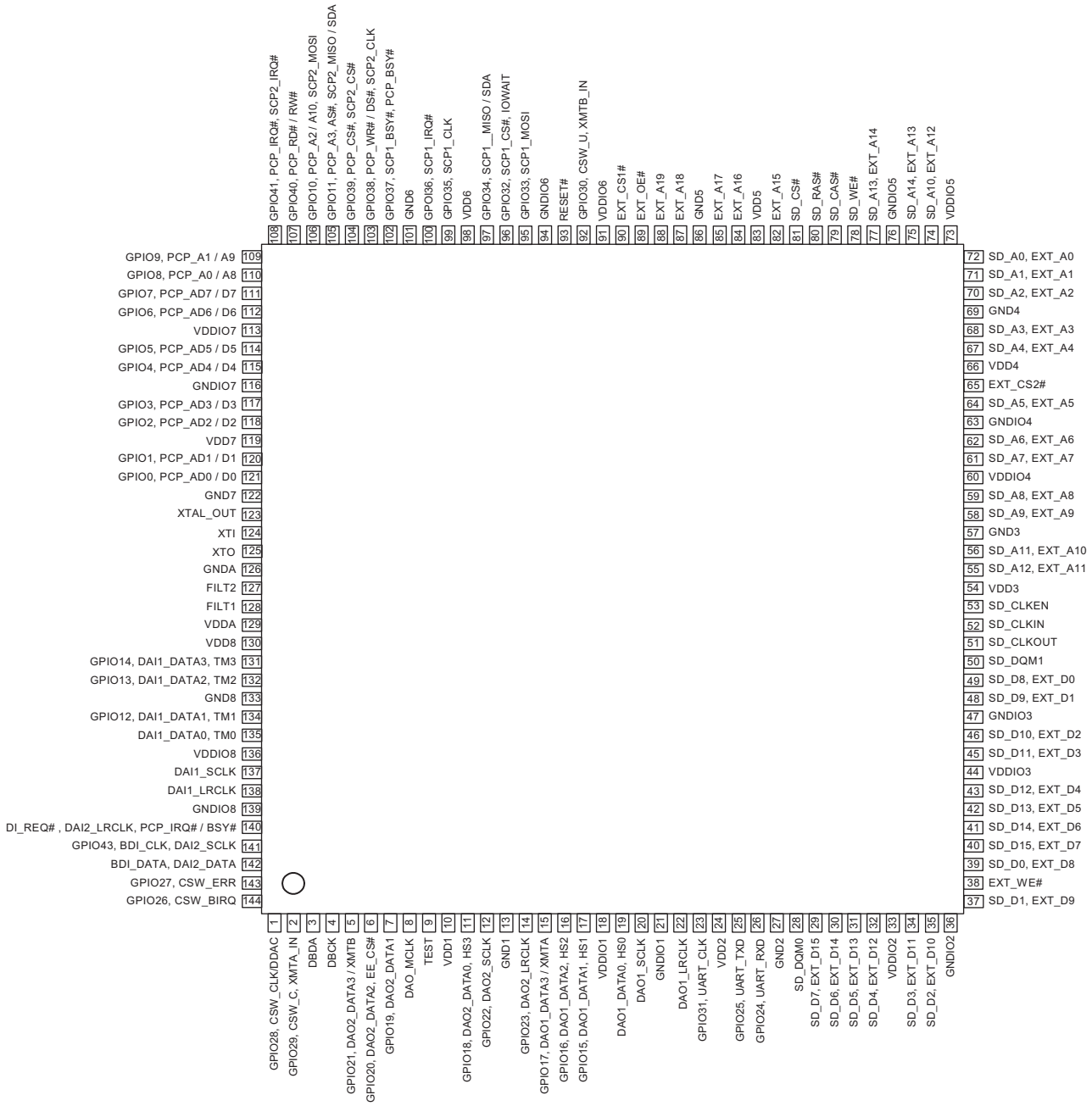


Figure 7-4 BLOCK DIAGRAM OF IC

ICM10 VHiLC750512-1: Audio Enhancer (LC750512) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1	PLLPWRR	Input	Power ring for PLL (ESD) (+1.8 V).
2	PLLGNDR	—	GND for PLL (ESD).
3	PLLAVDD	Input	Power supply for PLL (+1.8 V).
4	PLLAVSS	—	GND for PLL.
5	PLLDVDD	Input	Digital power supply for PLL (+1.8 V).
6	PLLDVSS	—	Digital GND for PLL (ESD).
7	TEST2	Input	Test terminal.
8	TEST3	Input	Test terminal.
9	DVSS4	—	Digital GND.
10	DVDD4	Input	Digital power supply (+1.8 V).
11	XVSS	—	GND for crystal.
12	XOUT	Output	Crystal oscillating output.
13	XIN	Input	Crystal oscillating input.
14	XVDD	Input	Power supply for crystal (+3.3 V).
15	CVDD4	Input	Digital power supply (+3.3 V).
16	CVSS4	—	Digital GND.
17	TEST0	Input	Test terminal.
18	TEST1	Input	Test terminal.
19	TEST4	Input	Test terminal.
20	TEST5	Input	Test terminal.
21	BVSS1	—	Logic GND in analog chip.
22	BVDD1	Input	Logic power supply in analog chip (+3.3 V).
23	AVSS4	—	DAC analog GND.
24	AVDD4	Input	DAC analog VDD (+5 V).
25	AVDD3	Input	EVR analog VDD (+5 V).
26	AVSS3	—	EVR analog GND.
27	AOUT1	Output	Lch EVR output.
28	EVRINL	Input	Lch EVR input.
29	DAOUTL	Output	Lch DAC analog output.
30	DAOUTR	Output	Rch DAC analog output.
31	EVRINR	Input	Rch EVR input.
32	AOUT2	Output	Rch EVR output.
33	AVSS2	—	GND for VREF.
34	AVDD2	Input	VDD for VREF (+5 V).
35	VREF2	Output	Reference voltage output terminal 2 (DAC, EVR).
36	VREF1	Output	Reference voltage output terminal 1 (ADC).
37	INL	Input	Lch ADC analog input.
38	INR	Input	Rch ADC analog input.
39	AVSS1	—	ADC analog GND.
40	AVDD1	Input	ADC analog power supply (+5V)
41*	TEST6	Input/Output	Test terminal.
42	XSEL0	Input/Output	Crystal frequency setting signal 0.
43	XSEL1	Input/Output	Crystal frequency setting signal 1.
44	XSEL2	Input/Output	Crystal frequency setting signal 2.
45	CVSS1	—	Digital GND.
46	CVDD1	Input	Digital power supply (+3.3 V).
47	LRCKI	Input	LR clock input.
48	BCKI	Input	Bit clock input.
49	DATAI	Input	Data input.
50	SCKII	—	External clock input.
51	DVSS1	—	Digital GND.
52	DVDD1	Input	Digital power supply (+1.8V).
53*	SCKO	Output	DAC master clock output.
54	TEST7	Input	Test terminal.
55*	DATAO2	Output	Data output 2.
56*	DATAO1	Output	Data output 1.
57*	DATAO0	Output	Data output 0.
58*	BCKO	Output	Bit clock output.
59*	LRCKO	Output	LR clock output.
60	CVSS2	—	Digital GND.
61	CVDD2	Input	Digital power supply (+3.3 V).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICM10 VHiLC750512-1: Audio Enhancer (LC750512) (2/2)

Pin No.	Terminal Name	Input/Output	Function
62	XPDESC	Input	DSP power down release signal (L-Active).
63*	PDEN	Output	DSP power down signal (H-Active).
64	DVSS2	—	Digital GND.
65	DVDD2	Input	Digital power supply (+1.8V).
66	PWDB	Input	Power down input (L-Active).
67	RSTB	Input	Reset input (L-Active).
68	INTB	Input	Interrupt input (“H” Fixed input).
69	MCUIFSEL	Input	Microprocessor I/F (CCB: Low; I2C: High). Select input.
70	CE	Input	Microprocessor I/F chip enable.
71	SCL/CL	Input	Microprocessor I/F clock input.
72	I2CBUSY/DI	Input/Output	Microprocessor I/F data input/12CBUSY output (H-Active).
73	SDA/DO	Input/Output	Microprocessor I/F data input/output (Nch open drain).
74	DVSS3	—	Digital GND.
75	DVDD3	Input	Digital power supply (+1.8V).
76	MRREQ	Output	DSP-MCU communication error flag (H-Active).
77*	GPFLAG	Output	DSP-MCU general-purpose flag (H-Active).
78*	EMPF	Output	CCB input register status monitor flag.
79	CVSS3	—	Digital GND.
80	CVDD3	Input	Digital power supply (+3.3 V).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

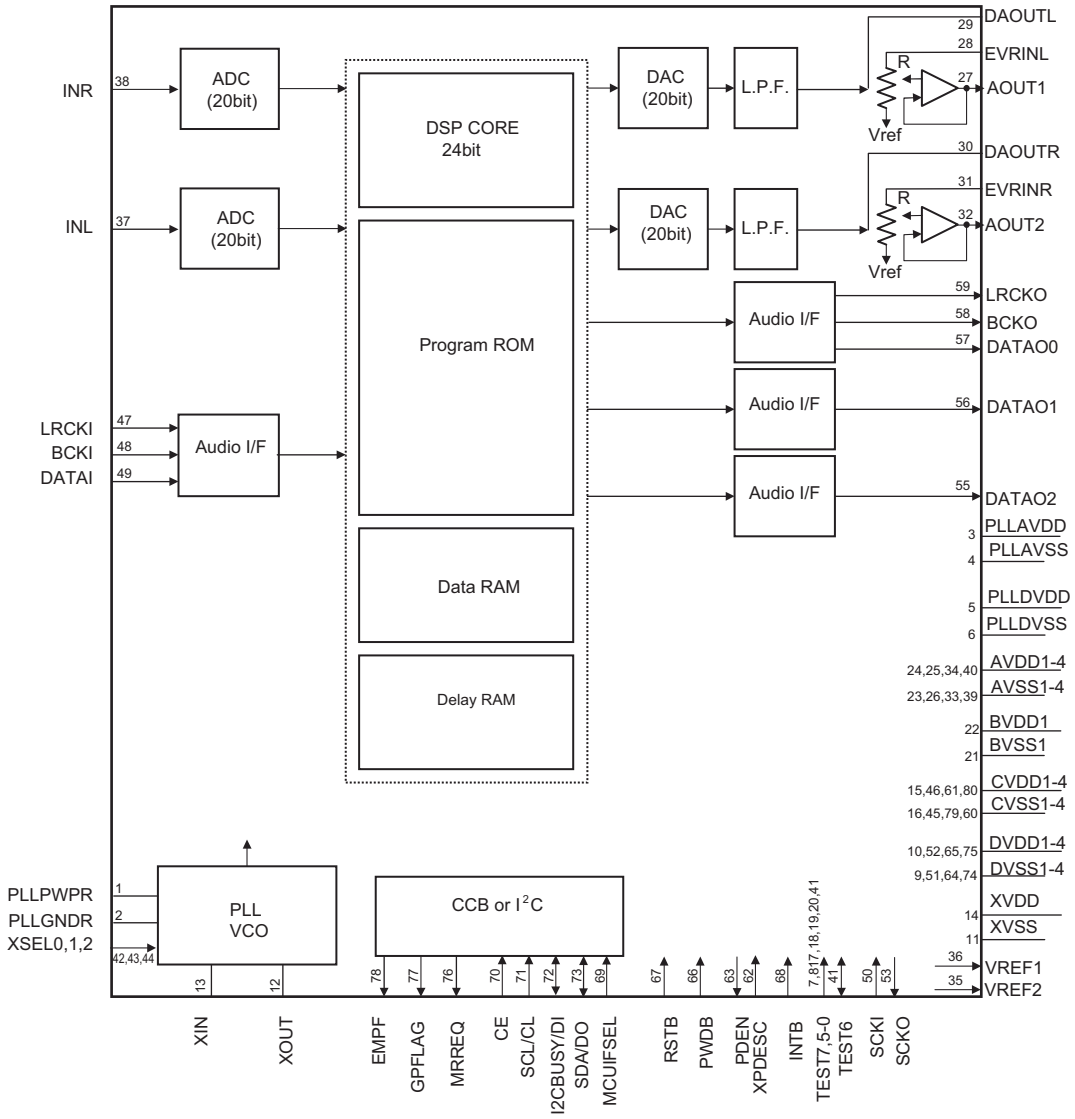
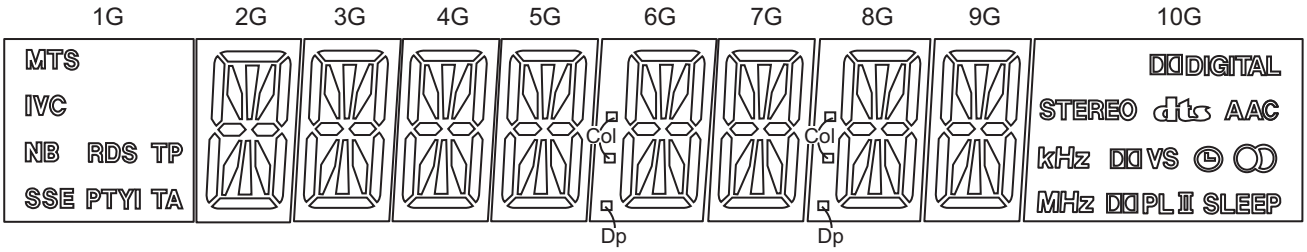


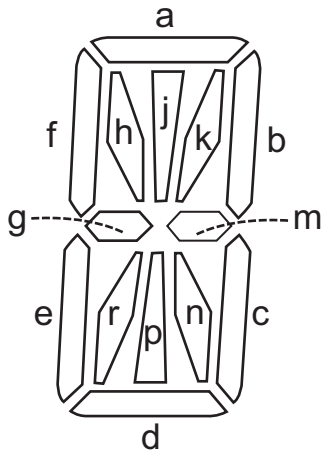
Figure 7-5 BLOCK DIAGRAM OF IC

[2] FL Display

FL100 VVKNA10SM54-1

GRID ASSIGNMENT





(2G-9G)

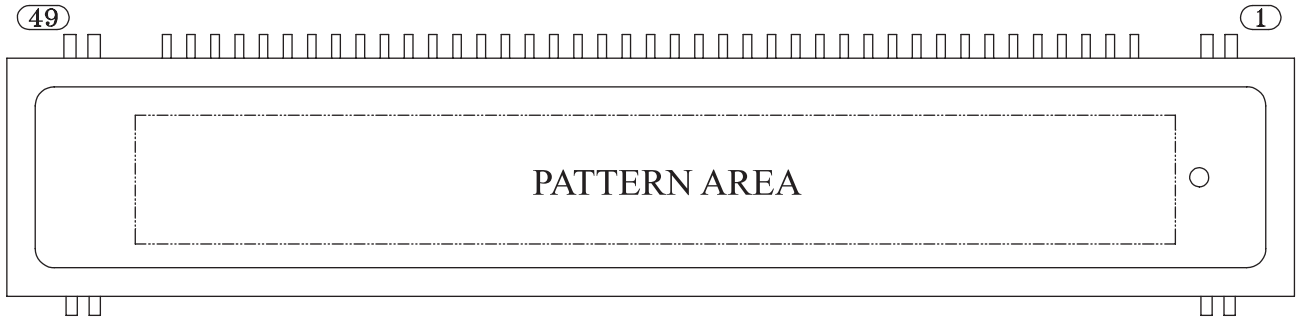
ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G
P1	MTS					Col		Col		(DIGITAL)
P2	IVC	a	a	a	a	a	a	a	a	DIGITAL
P3	NB	b	b	b	b	b	b	b	b	STEREO
P4	SSE	k	k	k	k	k	k	k	k	
P5		j	j	j	j	j	j	j	j	AAC
P6		h	h	h	h	h	h	h	h	
P7		f	f	f	f	f	f	f	f	(PL II)
P8		m	m	m	m	m	m	m	m	PL II
P9		d	d	d	d	d	d	d	d	(VS)
P10	PTYI	g	g	g	g	g	g	g	g	VS
P11	TA	p	p	p	p	p	p	p	p	
P12	RDS	e	e	e	e	e	e	e	e	
P13	TP	n	n	n	n	n	n	n	n	MHz
P14		r	r	r	r	r	r	r	r	SLEEP
P15		c	c	c	c	c	c	c	c	kHz
P16						Dp		Dp		

PIN CONNECTION

PIN NO.	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30-20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F+	F+	NP	NP	NX	NX	NX	NX	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	NX	P5	P4	P3	P2	P1	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F-	F-

OUTER DIMENSIONS



-MEMO-

SHARP PARTS GUIDE

HOME CINEMA SYSTEM

MODEL AN-PR1000H

HOME CINEMA SYSTEM

MODEL AN-PR1000HR

CONTENTS

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
IC2	VHITDA8920B-1	BA			Power Amp.,TDA8922BTH
IC800	VHiTDA46053-1	AT			Power Amp,TDA46053
IC801	VHiTL431ACZ-1	AD			Voltage Regulator
IC802	VHi6202P39T-1	AF			3.9V Regulator,6202P39T
IC803	VHiKiA7805AP1	AF			Voltage Regulator,KiA7805AP
IC804	VHiKiA7809AP1	AF			Voltage Regulator,KiA7809AP
ICA1	VHIWM8775++-1	AR			A/D Convertor,WM8775
ICF2	VHiTDA8920B-1	BA			Power Amp,TDA8920
ICM3	VHICS8416CN-1	AR			DIR,CS8416CN
ICM4	VHITJM4558CD1	AE			Ope Amp.,TJM4558CD
ICM5	VHINJM4565M-1	AC			Buffer Amp.,NJM4565M
ICM6	VHICS49510+-1	BG			DSP,CS49510
ICM7	RH-IXA105AW00	BD			System Microcomputer,IXA105AW
ICM8	RH-IXA116AW00	AG			EEPROM IC,IXA116AW
ICM9	VHIPST3229N1E	AD			Reset,PST3229N
ICM10	VHILC750512-1	AY			Audio Enhancer,LC750512
ICM11	VHIM61545FP-1	AL			Volume,M61545FP
ICM12	VHITJM4558CD1	AE			Ope Amp.,TJM4558CD
ICM14	VHI1112B18M-1	AE			1.8V Regulator,1112B18M
ICM15	VHIKIA78D33-1	AB			3.3V Regulator,KIA78D33
ICM16	VHIXC62EP18-1	AE			1.8V Regulator,XC62EP18
ICM17	VHI1112B33M-1	AD			3.3V Regulator,1112B33M
ICM18	VHI7WH157FK-1	AF			Multi Plexer,7WH157FK
ICP100	VHiR66021GP-1	AS			FL Driver,66021GP
ICT1	VHiLC72723M-1	AS			Tuner RDS,LC72723
[2] TRANSISTORS					
Q1	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q2	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q3	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
Q4	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
Q6	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q7	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q800	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR
Q801	VSKTA1266GR-1	AB			Silicon,PNP,KTA1266 GR
Q802	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q803	VSKTA1023Y/-1	AE			Silicon,PNP,KTA1023 Y
Q804	VSSPA06N803-1	AT			Mosfet,PA06N803
Q805	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR
Q806	VSKTA1023Y/-1	AE			Silicon,PNP,KTA1023 Y
QF1	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
QF2	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
QF3	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
QF4	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
QF6	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
QF7	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
QM1	VSKRC101S//-1	AB			Digital,NPN,KRC101 S
QM2	VSKRC101S//-1	AB			Digital,NPN,KRC101 S
QM4	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
QM7	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
QM8	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
QM9	VS2SA2012++-1	AF			Silicon,PNP,2SA2012
QM10	VSKTC4375Y+-1	AE			Silicon,NPN,KTC4375 Y
QM13	VSKRA107S//-1	AB			Digital,NPN,KRA107 S
QM14	VSKTC2875B/-1	AC			Silicon,NPN,KTC2875 B
QM15	VSKTC2875B/-1	AC			Silicon,NPN,KTC2875 B
QM17	VSKTC2875B/-1	AC			Silicon,NPN,KTC2875 B
QM18	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
QM19	VSKTA1046Y+-1	AF			Sillicon,PNP,KTA1046 Y
QM20	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
QM21	VSKRA107S//-1	AB			Digital,NPN,KRA107 S
QM22	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
QM23	VSKTC2875B/-1	AC			Silicon,NPN,KTC2875 B
QP1	VSKRC101S//-1	AB			Digital,NPN,KRC101 S
QT1	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
QT2	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
QT3	VSKRC107S//-1	AB			Digital,NPN,KRC107 S
[3] DIODES					
D3	VHDMA111///-1	AC			Silicon,MA111
D4	VHDMA111///-1	AC			Silicon,MA111
D5	VHDMA111///-1	AC			Silicon,MA111
D6	VHDMA111///-1	AC			Silicon,MA111
D51	VHDMA111///-1	AC			Silicon,MA111
D52	VHDMA111///-1	AC			Silicon,MA111
D801	VHDGD1N4004-1	AB			Silicon,GD1N4004
D802	VHD1SS119//-1	AA			Silicon,1SS119
D803	VHDERA85009-1	AC			Silicon,ERA85009
D804	VHD1SS119//-1	AA			Silicon,1SS119
D805	VHD1SS119//-1	AA			Silicon,1SS119
D806	VHD1SS119//-1	AA			Silicon,1SS119
D807	VHDERA92020-1	AC			Silicon,ERA92020
D808	VHD1SS119//-1	AA			Silicon,1SS119
D809	VHD1SS119//-1	AA			Silicon,1SS119
D810	VHD1SS119//-1	AA			Silicon,1SS119
D811	VHDERB84009-1	AD			Silicon,ERB84009
D812	VHDERB84009-1	AD			Silicon,ERB84009
D813	VHDERB84009-1	AD			Silicon,ERB84009

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] DIODES					
D814	VHDGD1N4004-1	AB			Silicon,GD1N4004
D815	VHDSTH102CF-1	AH			Silicon,STH102CF
D816	VHDGD1N4004-1	AB			Silicon,GD1N4004
D817	VHD1SS119//-1	AA			Silicon,1SS119
D818	VHDSTH102CF-1	AH			Silicon,STH102CF
D819	VHD1SS119//-1	AA			Silicon,1SS119
D820	VHDERA85009-1	AC			Silicon,ERA85009
D821	VHDERA85009-1	AC			Silicon,ERA85009
D950	VHDGD1N4004-1	AB			Silicon,GD1N4004
D951	VHDGD1N4004-1	AB			Silicon,GD1N4004
D952	VHDGD1N4004-1	AB			Silicon,GD1N4004
D953	VHDGD1N4004-1	AB			Silicon,GD1N4004
D954	VHDTS6P05GM-1	AG			Silicon,TS6P05GM
D955	VHDSARS03++-1	AN			Silicon,SASR03
DM2	VHDKDS226//-1	AB			Silicon,KDS226
DM3	RH-EX1394CEZZ	AC			Zener
DM7	VHDKDS160//-1	AB			Silicon,KDS160
DM8	VHDMA111///-1	AC			Silicon,MA111
DM9	VHDMA111///-1	AC			Silicon,MA111
DM10	VHDKDS160//-1	AB			Silicon,KDS160
DM11	RH-EX1397CEZZ	AB			Zener
DM13	VHDKDS160//-1	AB			Silicon,KDS160
DM14	VHDKDS160//-1	AB			Silicon,KDS160
DM15	VHDKDS160//-1	AB			Silicon,KDS160
DM16	VHDKDS184//-1	AB			Silicon,KDS184
DM17	VHDKDS160//-1	AB			Silicon,KDS160
DM22	RH-EX1394CEZZ	AC			Zener
DM23	RH-EX1394CEZZ	AC			Zener
DM24	RH-EX1394CEZZ	AC			Zener
DM25	RH-EX1394CEZZ	AC			Zener
DM29	VHDKDS160//-1	AB			Silicon,KDS160
DM30	VHDKDS160//-1	AB			Silicon,KDS160
DP1	VHD1SS119//-1	AA			Silicon,1SS119
DP2	VHD1SS119//-1	AA			Silicon,1SS119
DT1	VHDKDS160//-1	AB			Silicon,KDS160
DZ1	RH-EX1394CEZZ	AC			Zener
DZ800	VHEDZ100BSB-1	AC			Zener,10V,DZ10BSB
DZ801	VHEDZ120BSB-1	AC			Zener,12V,DZ12BSB
DZ803	VHEDZ330BSD-1	AC			Zener,33V,DZ33BSD
DZF1	RH-EX1394CEZZ	AC			Zener
LED100	VHP304VT2H1-1	AC			LED,Green,304GT2H
[4] TRANSFORMERS					
⚠ T800	RTRNZA007AWZZ	AX			Power (Main)
⚠ T801	RTRNP0313AWZZ	AN			Power (Sub)
[5] COILS					
CORE 1	RCORF0024AWZZ	AD			Ferrite Core
CORE 2	RCORFA006AWZZ	AG			Ferrite Core
CORE 3	RCORFA013AWZZ	AN			Core
L1	RCILZ2130SCT5	AC			Coil
L2	RCiLZ2130SCT5	AC			Coil
L5	RCILZA024AWZZ	AK			Coil,22 µ H
L800	RCiLZ0064AWZZ	AE			Coil,3.3 µH
L801	RCiLZ0064AWZZ	AE			Coil,3.3 µH
L802	RCiLZ0064AWZZ	AE			Coil,3.3 µH
L954	RCiLFA211WJZZ	AG			Coil
L955	RCiLFA211WJZZ	AG			Coil
LF1	RCiLZ0055AWZZ	AH			Coil (Amplifier PWB - C)
LF1	RCiLZ2130SCT5	AC			Coil (Sub Woofer PWB - D)
LF2	RCiLZ0049AWZZ	AH			Coil (Amplifier PWB - C)
LF2	RCiLZ2130SCT5	AC			Coil (Sub Woofer PWB - D)
LF3	RCiLZ0055AWZZ	AH			Coil
LF5	RCiLZA024AWZZ	AK			Coil,22 µH
LFF1	RCiLZ0055AWZZ	AH			Coil
LFF2	RCiLZ0049AWZZ	AH			Coil
LFF3	RCiLZ0055AWZZ	AH			Coil
LM1	VPBNN2R2K0000	AC			2.2 µ H
LM2	VPBNN2R2K0000	AC			2.2 µ H
LM4	VPBNN2R2K0000	AC			2.2 µ H
LM5	VPBNN2R2K0000	AC			2.2 µ H
LM6	VPBNN100K0000	AC			10 µ H
LM7	VPBNN4R7K0000	AC			4.7 µ H
LM8	VPBNN4R7K0000	AC			4.7 µ H
LM9	VPBNN4R7K0000	AC			4.7 µ H
LM11	RCILC0290AFZZ	AC			Tip Solid Induction,200mA
LM12	VPBNN2R2K0000	AC			2.2 µ H
LM13	RCILC0290AFZZ	AC			Tip Solid Induction,200mA
LM14	VPCBM2R2M0000	AC			2.2 µ H
LM16	RCORF0015AWZZ	AB			Core
LT1	VPBNN2R2K0000	AC			2.2 µ H
LT2	VPBNN2R2K0000	AC			2.2 µ H
[6] CRYSTALS/VIBRATORS					
XM1	RCRSP0031AWZZ	AF			Crystal,12.288 MHz
XM2	RCRSPA008AWZZ	AE			Crystal,18.432 MHz
XM4	RCRSP0011AWZZ	AC			Crystal,32.768 KHz

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[6] CRYSTALS/VIBRATORS					
XT1	RCRSP0018AWZZ	AG			Crystal,4.332 MHz
[7] THERMISTORS					
⚠ PS931	RH-QX0010AWZZ	AE			Posistor,0.5 ohms
⚠ PS932	RH-QX0010AWZZ	AE			Posistor,0.5 ohms
⚠ PS935	RH-QX0010AWZZ	AE			Posistor,0.5 ohms
⚠ R2	RH-QX1067AFZZ	AE			Posistor,8.2 ohms
⚠ R5	RH-QX1067AFZZ	AE			Posistor,8.2 ohms
⚠ RF2	RH-QX1067AFZZ	AE			Posistor,8.2 ohms
⚠ RF5	RH-QX1067AFZZ	AE			Posistor,8.2 ohms
⚠ TH901	RH-QXA001AWZZ	AH			Thermistor
⚠ THM1	RH-QX0006AWZZ	AE			Posistor,4.7 ohms
[8] CAPACITORS					
C1	VCFYAA2AA104K	AB			0.1µF,63V
C2	VCEAZA1HW476M	AB			47 µ F,50V,Electrolytic
C3	VCEAZA1HW477M	AD			470 µ F,50V,Electrolytic
C4	VCEAZA1AW107M	AB			100 µ F,10V,Electrolytic
C5	VCEAZA1HW476M	AB			47 µ F,50V,Electrolytic
C6	VCEAZA1HW477M	AD			470 µ F,50V,Electrolytic
C7	VCEAZA1JW476M	AC			47µF,63V,Electrolytic
C9	VCKYCY1CB104K	AB			0.1 µ F,16V
C10	VCCCCY1HH471J	AA			470 pF (CH),50V
C11	VCCCCY1HH471J	AA			470 pF (CH),50V
C12	VCKYCY1CB104K	AB			0.1µF,16V
C13	VCKYCY1CB104K	AB			0.1µF,16V
C15	VCKYCY1CB104K	AB			0.1µF,16V
C17	VCKYCY1HB102K	AA			0.001 µ F,50V
C18	VCEAEA1HW104M	AB			0.1µF,50V,Electrolytic
C19	VCCCCY1HH221J	AA			220p F (CH), 50V
C20	VCEAEA1HW104M	AB			0.1µF,50V,Electrolytic
C21	VCKYCY1HB153K	AA			0.015 µ F,50V
C22	VCFYFA1HA155J	AF			1.5 µ F,50V,Thin Film
C23	VCKYCY1HB102K	AA			0.001 µ F,50V
C24	VCKYTV1HB104K	AA			0.1µF,50V
C25	VCKYCY1CB104K	AB			0.1µF,16V
C26	VCKYCY1CB104K	AB			0.1µF,16V
C27	VCKYCY1HB153K	AA			0.015 µ F,50V
C28	VCCCCY1HH221J	AA			220 pF (CH),50V
C29	RC-KZ3002AWZZ	AC			1 µ F,50V,Electrolytic
C30	RC-KZ3002AWZZ	AC			1µF,50V,Electrolytic
C31	VCFYFA1HA155J	AF			1.5 µ F,50V,Thin Film
C32	VCKYTV1HB104K	AA			0.1µF,50V
C33	VCCCCY1HH221J	AA			220 pF (CH),50V
C34	VCKYCY1CB104K	AA			0.1µF,16V
C35	VCKYCY1CB104K	AA			0.1µF,16V
C36	VCKYTV1HB104K	AB			0.1 µ F,50V
C38	VCKYCY1CB104K	AA			0.1µF,16V
C39	VCKYCY1HB153K	AA			0.015 µ F,50V
C40	VCCCCY1HH471J	AA			470 pF (CH),50V
C41	VCCCCY1HH471J	AA			470 pF (CH),50V
C42	VCKYCY1HB153K	AA			0.015 µ F,50V
C47	VCKYCY1HB103K	AA			0.01 µ F,50V
C48	VCKYCY1HB103K	AA			0.01 µ F,50V
C50	VCEAEA1HW104M	AB			0.1µF,50V,Electrolytic
C52	VCCCCY1HH471J	AA			470 pF (CH),50V
C53	VCCCCY1HH471J	AA			470 pF (CH),50V
C54	VCCCCY1HH471J	AA			470 pF (CH),50V
C55	VCCCCY1HH471J	AA			470 pF (CH),50V
C56	VCFYFA1HA104J	AC			0.1 µ F,50V,Thin Film
C57	VCFYFA1HA104J	AC			0.1 µ F,50V,Thin Film
C60	VCKYCY1HB102K	AA			0.001µF,50V
C63	VCKYTV1HB104K	AB			0.1 µ F,50V
C64	VCKYCY1EB105K	AB			1 µ F,25V
C65	VCKYTV1HB104K	AA			0.1µF,50V
C70	VCEAZA1HW474M	AB			0.47µF,50V,Electrolytic
C800	RC-EZ0097AWZZ	AF			1000µF,25V,Electrolytic
C801	VCQYKA1HM473K	AB			0.047µF,50V,Mylar
C802	VCQYKA1HM473K	AB			0.047µF,50V,Mylar
C803	VCQYKA1HM104K	AB			0.1µF,50V,Mylar
C804	VCQYKA1HM104K	AB			0.1µF,50V,Mylar
C805	VCEAZA1HW105M	AB			1µF,50V,Electrolytic
C806	VCEAZA1EW477M	AD			470µF,25V,Electrolytic
C807	VCKYPA1HB222K	AA			0.0022µF,50V
C808	VCEAZA1HW476M	AB			47µF,50V,Electrolytic
C809	VCQYKA1HM473K	AB			0.047µF,50V,Mylar
C810	VCQYKA1HM473K	AB			0.047µF,50V,Mylar
C811	VCEAZA1HW105M	AB			1µF,50V,Electrolytic
C812	VCQYTA2AA332J	AB			0.0033µF,100V,Mylar
C813	VCQYKA1HM103K	AA			0.01 µF,50V
C814	VCQYKA1HM224K	AB			0.22µF,50V,Mylar
C815	VCEAZA1HW105M	AB			1µF,50V,Electrolytic
C816	VCQYKA1HM103K	AA			0.01 µF,50V
C817	VCEAZA1HW476M	AB			47µF,50V,Electrolytic
C818	VCQYKA1HM103K	AB			0.01µF,50V,Mylar
C819	VCQYKA1HM104K	AB			0.1µF,50V,Mylar
C820	VCEAZA1HW476M	AB			47µF,50V,Electrolytic

[8] CAPACITORS

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
⚠	C821	RC-QZ3003AWZZ	AE			0.0022 µF,1000V
	C822	VCEAZA1HW106M	AB			10µF,50V,Electrolytic
	C823	VCQYTA2AA332J	AB			0.0033µF,100V,Mylar
	C824	VCEAZA1HW336M	AC			33µF,50V,Electrolytic
	C825	RC-EZ0097AWZZ	AF			1000µF,25V,Electrolytic
	C826	VCEAZA1HW476M	AB			47µF,50V,Electrolytic
	C827	VCQYKA1HM473K	AB			0.047µF,50V,Mylar
	C828	VCQYKA1HM473K	AB			0.047µF,50V,Mylar
	C829	VCEAZA1HW105M	AB			1µF,50V,Electrolytic
	C830	VCQYKA1HM104K	AB			0.1µF,50V,Mylar
	C831	VCQYTA2AA332J	AB			0.0033µF,100V,Mylar
	C832	RC-EZ0097AWZZ	AF			1000µF,25V,Electrolytic
	C833	RC-EZ0097AWZZ	AF			1000µF,25V,Electrolytic
	C834	VCQYTA2AA332J	AB			0.0033µF,100V,Mylar
	C835	RC-KZ3002AWZZ	AC			1µF,50V,Electrolytic
	C836	VCQYKA1HM224K	AB			0.22µF,50V,Mylar
	C837	RC-EZ3074AWZZ	AH			2200µF,35V,Electrolytic
	C838	RC-EZ3074AWZZ	AH			2200µF,35V,Electrolytic
	C840	RC-EZ3074AWZZ	AH			2200µF,35V,Electrolytic
⚠	C841	RC-KZA137WJZZ	AE			4700pF,AC250V
⚠	C843	RC-QZ3001AWZZ	AH			3300µF,630V
⚠	C844	RC-QZ3002AWZZ	AD			4700pF,630V
⚠	C845	RC-KZ007LAWZZ	AD			4700pF,AC250V
	C846	RC-EZ3074AWZZ	AH			2200µF,35V,Electrolytic
⚠	C847	RC-KZ007LAWZZ	AD			4700pF,AC250V
	C848	RC-EZA985WJZZ	AR			2200µF,35V,Electrolytic
⚠	C849	RC-FZA026WJZZ	AE			0.47µF,275VAC
⚠	C850	RC-KZ007LAWZZ	AD			4700pF,AC250V,Electrolytic
⚠	C851	RC-FZA026WJZZ	AE			0.47µF,275VAC
⚠	C852	RC-KZ007LAWZZ	AD			4700pF,AC250V,Electrolytic
	C853	VCKYPA1HB102K	AA			0.001µF,50V
	C854	VCFYDA1HA334J	AC			0.33µF,50V,Thin Film
⚠	C855	RC-KZA137WJZZ	AE			4700µF,AC250V,Electrolytic
⚠	C856	RC-KZ0089GEZZ	AC			0.001µF,AC250V,Ceramic
⚠	C857	RC-KZ0089GEZZ	AC			0.001µF,AC250V,Ceramic
	C858	RC-EZ3075AWZZ	AC			120µF,16V,Electrolytic
	C859	VCQYKA1HM103K	AB			0.01µF,50V,Mylar
	C860	VCEAZA1JW107M	AC			100µF,63V,Electrolytic
⚠	C861	RC-KZA135WJZZ	AD			2200pF,AC250V
⚠	C862	RC-KZA137WJZZ	AE			4700µF,AC250V,Electrolytic
	C863	VCEAZA1HW476M	AB			47µF,50V,Electrolytic
	C864	VCEAEA2AW107M	AD			100µF,100V,Electrolytic
	C865	VCEAZA1HW476M	AB			47µF,50V,Electrolytic
⚠	C866	RC-QZ0034AWZZ	AE			33µF,250V
	C867	VCEAZA1HW336M	AC			33µF,50V,Electrolytic
	C869	VCFYFA1HA105J	AE			1 µF,50V,Thin Film
	C870	VCFYFA1HA105J	AE			1 µF,50V,Thin Film
	C871	VCKYCY1EB105K	AB			1µF,25V
	C872	VCKYCY1EB105K	AB			1µF,25V
	C873	VCKYCY1VB105K	AB			1 µF,35V
	C874	VCKYCY1VB105K	AB			1 µF,35V
	C876	VCQYKA1HM103K	AA			0.01 µF,50V
	CA1	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
	CA2	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
	CA3	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
	CA4	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
	CA5	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
	CA6	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
	CA7	VCKYCY1HB102K	AB			0.001 µ F,50V
	CA8	VCKYCY1HB102K	AB			0.001 µ F,50V
	CA9	VCKYCY1HB102K	AB			0.001 µ F,50V
	CA10	VCKYCY1HB102K	AB			0.001 µ F,50V
	CA11	VCKYCY1HB102K	AB			0.001 µ F,50V
	CA12	VCKYCY1HB102K	AB			0.001 µ F,50V
	CA25	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
	CA26	VCKYCY1CB104K	AB			0.1 µ F,16V
	CF1	VCFYAA2AA104K	AF			0.1µF,63V
	CF2	VCEAZA1HW476M	AB			47µF,50V,Electrolytic
	CF3	VCEAZA1HW477M	AD			470µF,50V,Electrolytic
	CF4	VCEAZA1AW107M	AB			100µF,10V,Electrolytic
	CF5	VCEAZA1HW476M	AB			47µF,50V,Electrolytic
	CF6	VCEAZA1HW477M	AD			470µF,50V,Electrolytic
	CF7	VCEAZA1JW476M	AC			47µF,63V,Electrolytic
	CF9	VCKYCY1CB104K	AB			0.1µF,16V
	CF10	VCCCCY1HH471J	AA			470pF(CH), 50V
	CF11	VCCCCY1HH471J	AA			470pF(CH), 50V
	CF12	VCKYCY1CB104K	AB			0.1µF,16V
	CF13	VCKYCY1CB104K	AB			0.1µF,16V
	CF15	VCKYCY1CB104K	AB			0.1µF,16V
	CF17	VCKYCY1HB102K	AB			0.001µF,50V
	CF18	VCEAZA1HW475M	AB			4.7µF,50V,Electrolytic
	CF19	VCCCCY1HH221J	AA			220p F (CH), 50V
	CF20	VCEAZA1HW475M	AB			4.7µF,50V,Electrolytic
	CF21	VCKYCY1HB153K	AA			0.015µF,50V
	CF22	VCFYFA1HA155J	AF			1.5µF,50V,Thin Film
	CF23	VCKYCY1HB102K	AB			0.001µF,50V
	CF24	VCKYTV1HB104K	AB			0.1µF,16V
	CF25	VCKYCY1CB104K	AB			0.1µF,16V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
CF26	VCKYCY1CB104K	AB			0.1µF,16V
CF27	VCKYCY1HB153K	AA			0.015µF,50V
CF28	VCCCCY1HH221J	AA			220p F (CH), 50V
CF29	RC-KZ3002AWZZ	AC			1µF,50V,Electrolytic
CF30	RC-KZ3002AWZZ	AC			1µF,50V,Electrolytic
CF31	VCFYFA1HA155J	AF			1.5µF,50V,Thin Film
CF32	VCKYTV1HB104K	AB			0.1µF,16V
CF33	VCCCCY1HH221J	AA			220p F (CH), 50V
CF34	VCKYCY1CB104K	AB			0.1µF,16V
CF35	VCKYCY1CB104K	AB			0.1µF,16V
CF36	VCKYCY1VB104K	AB			0.1µF,16V
CF38	VCKYCY1CB104K	AB			0.1µF,16V
CF39	VCKYCY1HB153K	AA			0.015µF,50V
CF40	VCCCCY1HH471J	AA			470pF(CH), 50V
CF41	VCCCCY1HH471J	AA			470pF(CH), 50V
CF42	VCKYCY1HB153K	AA			0.015µF,50V
CF47	VCKYCY1HB103K	AA			0.01µF,50V
CF48	VCKYCY1HB103K	AA			0.01µF,50V
CF50	VCEAZA1HW475M	AB			4.7µF,50V,Electrolytic
CF52	VCCCCY1HH471J	AA			470pF(CH), 50V
CF53	VCCCCY1HH471J	AA			470pF(CH), 50V
CF54	VCCCCY1HH471J	AA			470pF(CH), 50V
CF55	VCCCCY1HH471J	AA			470pF(CH), 50V
CF56	VCFYFA1HA104J	AC			0.1µF,50V,Thin Film
CF57	VCFYFA1HA104J	AC			0.1µF,50V,Thin Film
CF60	VCKYCY1HB102K	AB			0.001µF,50V
CF63	VCKYTV1HB104K	AB			0.1µF,16V
CF64	VCKYCY1EB105K	AB			1µF,25V
CF65	VCKYTV1HB104K	AB			0.1µF,16V
CF70	VCEAZA1HW475M	AB			4.7µF,50V,Electrolytic
CM1	VCKYCY1CB104K	AB			0.1 µ F,16V
CM2	VCKYCY1CB104K	AA			0.1µF,25V
CM3	VCKYCY1CB104K	AA			0.1µF,25V
CM4	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
CM5	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
CM6	VCKYCY1CB104K	AB			0.1 µ F,16V
CM7	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM8	VCKYCY1CB104K	AB			0.1 µ F,16V
CM9	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM10	VCKYCY1CB104K	AB			0.1 µ F,16V
CM11	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM13	VCKYCY1CB104K	AB			0.1 µ F,16V
CM14	VCKYCY1CB104K	AB			0.1 µ F,16V
CM15	VCKYCY1CB104K	AB			0.1 µ F,16V
CM16	VCKYCY1CB104K	AB			0.1 µ F,16V
CM17	VCKYCY0JB105K	AC			1 µ F,6.3V
CM18	VCKYCY1CB104K	AB			0.1 µ F,16V
CM22	VCKYCY1HB103K	AA			0.01 µ F,50V
CM23	VCKYCY0JB105K	AC			1 µ F,6.3V
CM24	VCKYCY1HB103K	AA			0.01 µ F,50V
CM25	VCKYCY1HB102K	AA			0.001 µ F,50V
CM26	VCKYCY1CB223K	AA			0.022 µ F,16V
CM27	VCKYCY1HB102K	AA			0.001 µ F,50V
CM28	VCKYCY1HB103K	AA			0.01 µ F,50V
CM29	VCKYCY1HB103K	AA			0.01 µ F,50V
CM30	VCCCCY1HH220J	AA			22 pF (CH),50V
CM31	VCCCCY1HH270J	AA			27 pF (CH),50V
CM32	VCKYCY1CB104K	AB			0.1 µ F,16V
CM33	VCKYCY1CB104K	AB			0.1 µ F,16V
CM34	VCEAZA1AW107M	AB			100 µ F,10V,Electrolytic
CM35	VCKYCY1CB104K	AB			0.1 µ F,16V
CM36	VCKYCY1CB104K	AB			0.1 µ F,16V
CM37	VCKYCY0JB105K	AC			1 µ F,6.3V
CM38	VCKYCY1CB104K	AB			0.1 µ F,16V
CM39	VCKYCY0JB105K	AC			1 µ F,6.3V
CM40	VCKYCY1CB104K	AB			0.1 µ F,16V
CM41	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM42	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM43	VCCCCY1HH390J	AA			39pF(CH), 50V
CM44	VCEAZA0JW227M	AC			220µF,6.3V,Electrolytic
CM45	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM47	VCKYCY1AB105K	AB			1 µ F,10V
CM48	VCKYCY1AB105K	AB			1 µ F,10V
CM51	VCEAZA1CW107M	AC			100 µ F,16V,Electrolytic
CM52	VCEAZA1CW107M	AC			100 µ F,16V,Electrolytic
CM53	VCCCCY1HH220J	AA			22 pF (CH),50V
CM54	VCKYCY1CB104K	AB			0.1 µ F,16V
CM55	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM56	VCKYCY1CB104K	AB			0.1 µ F,16V
CM57	VCEAZA1CW476M	AB			47 µ F,16V,Electrolytic
CM58	VCKYCY1CB104K	AB			0.1 µ F,16V
CM59	VCKYCY1CB104K	AB			0.1 µ F,16V
CM60	VCKYCY1CB104K	AB			0.1 µ F,16V
CM61	VCKYCY1CB104K	AB			0.1 µ F,16V
CM63	VCKYCY1CB104K	AB			0.1 µ F,16V
CM64	VCKYCY1CB104K	AB			0.1 µ F,16V
CM65	VCCCCY1HH300J	AA			30 pF (CH),50V
CM66	VCCCCY1HH300J	AA			30 pF (CH),50V
CM67	VCEAZA1HW225M	AB			2.2 µ F,50V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
CM68	VCKYCY1CB104K	AB			0.1 µ F,16V
CM69	VCCCCY1HH470J	AA			47 pF (CH),50V
CM70	VCKYCY1HB102K	AA			0.001 µ F,50V
CM71	VCKYCY1CB104K	AB			0.1 µ F,16V
CM72	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM73	VCKYCY1CB104K	AB			0.1 µ F,16V
CM74	VCKYCY1AB105K	AA			1µF,10V
CM75	VCKYCY1CB104K	AB			0.1 µ F,16V
CM76	VCKYCY1CB104K	AB			0.1 µ F,16V
CM77	VCKYCY1CB104K	AB			0.1 µ F,16V
CM78	VCKYCY1CB104K	AB			0.1 µ F,16V
CM79	VCKYCY1CB104K	AB			0.1 µ F,16V
CM80	VCKYCY1CB104K	AB			0.1 µ F,16V
CM81	VCKYCY1CB104K	AB			0.1 µ F,16V
CM82	VCKYCY1AB334K	AC			0.33 µ F,10V
CM83	VCKYCY1AB334K	AC			0.33 µ F,10V
CM84	VCKYCY1CB104K	AA			0.1µF,25V
CM86	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM87	VCKYCY1CB104K	AA			0.1µF,25V
CM88	VCKYCY1CB473K	AA			0.047 µ F,16V
CM89	VCKYCY1CB104K	AA			0.1µF,25V
CM90	VCKYCY1HB103K	AA			0.01µF,50V
CM91	VCEAZA1HW475M	AB			4.7 µ F,50V,Electrolytic
CM92	VCCCCY1HH220J	AA			22 pF (CH),50V
CM93	VCKYCY1HB103K	AA			0.01µF,50V
CM94	VCKYCY1CB223K	AA			0.022 µ F,16V
CM95	VCEAEA1CW106M	AB			10µF,16V,Electrolytic
CM96	VCEAEA1CW106M	AB			10µF,16V,Electrolytic
CM99	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM100	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM101	VCKYCY1CB223K	AA			0.022 µ F,16V
CM102	VCEAZA0JW227M	AC			220 µ F,6.3V,Electrolytic
CM103	VCKYCY1CB104K	AB			0.1 µ F,16V
CM104	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM106	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM108	VCEAZA1CW226M	AC			22 µ F,16V,Electrolytic
CM110	VCKYCY1CB104K	AB			0.1 µ F,16V
CM111	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM112	VCKYCY1CB104K	AB			0.1 µ F,16V
CM113	VCKYCY1CB104K	AB			0.1 µ F,16V
CM114	VCKYCY1CB104K	AA			0.1µF,25V
CM117	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM118	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM119	VCEAZA1CW476M	AB			47 µ F,16V,Electrolytic
CM120	VCKYCY1HB103K	AA			0.01 µ F,50V
CM121	VCKYCY1CB104K	AA			0.1µF,25V
CM122	VCCCCY1HH180J	AA			18 pF (CH),50V
CM123	VCEAZA1AW107M	AB			100 µ F,10V,Electrolytic
CM124	VCEAZA1AW107M	AB			100 µ F,10V,Electrolytic
CM125	VCCCCY1HH180J	AA			18 pF (CH),50V
CM126	VCEAEA1HW104M	AB			0.1µF,50V,Electrolytic
CM127	VCEAEA1HW104M	AB			0.1µF,50V,Electrolytic
CM130	VCKYCY1CB104K	AB			0.1 µ F,16V
CM131	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM132	VCKYCY1CB104K	AB			0.1 µ F,16V
CM133	VCKYCY1CB104K	AB			0.1 µ F,16V
CM134	VCKYCY1CB104K	AB			0.1 µ F,16V
CM135	VCKYCY1CB104K	AB			0.1 µ F,16V
CM136	VCKYCY1AB105K	AB			1 µ F,10V
CM137	VCKYCY1HB153K	AA			0.015 µ F,50V
CM138	VCCCCY1HH390J	AA			39 pF (CH),50V
CM139	VCKYCY1CB104K	AB			0.1 µ F,16V
CM141	VCKYCY1CB104K	AB			0.1 µ F,16V
CM144	VCEAZA1AW476M	AB			47 µ F,10V,Electrolytic
CM148	VCKYCY1CB104K	AA			0.1µF,25V
CM150	VCKYCY1CB104K	AA			0.1µF,25V
CM156	VCEAZA0JW227M	AC			220 µ F,6.3V,Electrolytic
CM157	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM158	RC-EZ0645CEZZ	AG			33 µ F,16V,Electrolytic
CM159	VCKYCY1CB104K	AA			0.1µF,25V
CM160	VCKYCY1CB104K	AA			0.1µF,25V
CM161	RC-EZ0459CEZZ	AE			10 µ F,6.3V,Electrolytic
CM162	VCEAZA0JW476M	AB			47 µ F,6.3V,Electrolytic
CM163	VCKYCY0JB105K	AC			1 µ F,6.3V
CM164	VCKYCY1CB104K	AB			0.1 µF,16V
CM165	VCEAZA1CW106M	AC			10 µ F,16V,Electrolytic
CM166	VCKYCY1CB104K	AB			0.1 µF,16V
CM167	VCKYCY1CB104K	AB			0.1 µF,16V
CM168	VCEAZA1HW105M	AB			1 µ F,50V,Electrolytic
CM169	VCEAZA1HW105M	AB			1 µ F,50V,Electrolytic
CM171	VCKYCY1CB104K	AB			0.1 µ F,16V
CM174	VCKYCY1CB104K	AB			0.1 µ F,16V
CM175	VCKYCY1CB104K	AB			0.1 µ F,16V
CM179	VCCCCY1HH220J	AA			22 pF (CH),50V
CM180	VCCCCY1HH220J	AA			22 pF (CH),50V
CM181	VCCCCY1HH220J	AA			22 pF (CH),50V
CM185	VCKYCY1HB103K	AA			0.01 µ F,50V
CM186	VCKYCY1CB223K	AA			0.022 µF,16V
CM187	VCEAEA1CW336M	AB			33µF,16V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
CM188	VCKYCY1CB104K	AB			0.1 µ F,16V
CM189	VCKYCY1HB103K	AA			0.01 µ F,50V
CM191	VCKYCY1CB104K	AA			0.1 µ F,16V
CM194	VCKYCY1CB104K	AA			0.1 µ F,16V
CM195	VCKYCY1CB104K	AA			0.1 µ F,16V
CM196	VCKYCY1CB104K	AA			0.1 µ F,16V
CM197	VCKYCY1CB104K	AA			0.1 µ F,16V
CM200	VCKYCY1CB104K	AA			0.1 µ F,16V
CM201	VCCCCY1HH150J	AA			15pF(CH), 50V
CM204	VCCCCY1HH180J	AA			15pF(CH), 50V
CM207	VCCSPA1HL330J	AA			33 pF,50V
CM208	VCKYBT1HF104Z	AC			0.1µF,50V
CM209	VCKYBT1HF104Z	AC			0.1µF,50V
CP1	VCCCCY1HH271J	AA			270pF(CH), 50V
CP2	VCEAZA1HW474M	AB			0.47µF,50V,Electrolytic
CP3	VCEAZA1HW474M	AB			0.47µF,50V,Electrolytic
CP4	VCCCCY1HH271J	AA			270pF(CH), 50V
CP5	VCEAZA1CW226M	AC			22µF,16V,Electrolytic
CP6	VCKYCY0JB105K	AA			1µF,10V
CP7	VCCCCY1HH820J	AA			82pF(CH), 50V
CP8	VCCCCY1HH101J	AA			100pF(CH), 50V
CP9	VCCCCY1HH101J	AA			100pF(CH), 50V
CP10	VCCCCY1HH101J	AA			100pF(CH), 50V
CP11	VCCCCY1HH101J	AA			100pF(CH), 50V
CP12	VCCCCY1HH101J	AA			100pF(CH), 50V
CP13	VCCCCY1HH101J	AA			100pF(CH), 50V
CP14	VCEAZA1CW226M	AC			22µF,16V,Electrolytic
CP15	VCKYBT1HF104Z	AC			0.1µF,50V
CT1	VCKYCY1HB102K	AA			0.001µF,50V
CT2	VCKYCY1HB102K	AA			0.001µF,50V
CT3	VCKYCY1CB223K	AA			0.022µF,16V
CT4	VCCCCY1HH220J	AA			22pF(CH), 50V
CT5	VCCCCY1HH220J	AA			22pF(CH), 50V
CT6	VCEAZA1AW476M	AB			47µF,10V,Electrolytic
CT7	VCKYCY1CB223K	AA			0.022µF,16V
CT8	VCKYCY1CB223K	AA			0.022µF,16V
CT9	VCKYCY1HB561K	AA			560pF,50V
CT10	VCKYCY1CB223K	AA			0.022µF,16V
CT11	VCEAZA1AW476M	AB			47µF,10V,Electrolytic
CT12	VCKYCY1CB223K	AA			0.022µF,16V
CT13	VCEAZA1AW476M	AB			47µF,10V,Electrolytic
CT14	VCEAZA1HW475M	AB			4.7µF,50V,Electrolytic
CT15	VCEAZA1HW475M	AB			4.7µF,50V,Electrolytic
RM213	VCKYCY0JB105K	AC			1 µ F,6.3V
[9] RESISTORS					
CM19	VRS-CY1JB102J	AA			1 kohm,1/16W
CM183	VRS-CY1JB123J	AA			12 kohms,1/16W
CM184	VRS-CY1JB123J	AA			12 kohms,1/16W
J2	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
J3	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JF2	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JF3	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
JP2	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
R1	VRS-CY1JB103J	AA			10 kohms,1/16W
R3	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R4	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R6	VRS-CY1JB273J	AA			27 kohms,1/16W
R7	VRS-TV2AB100J	AA			10 ohm,1/10W
R8	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R9	VRN-CM05N220J	AD			22 ohms,5W
R10	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R12	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R13	VRS-TV2AB100J	AA			10 ohm,1/10W
R14	VRN-CM05N220J	AD			22 ohms,5W
R16	VRS-CY1JB105J	AA			1 Mohm,1/16W
R17	VRS-CY1JB105J	AA			1 Mohm,1/16W
R18	VRS-CY1JB104J	AA			100 kohm,1/16W
R19	VRS-CY1JB104J	AA			100 kohm,1/16W
R22	VRS-CY1JB104J	AA			100 kohm,1/16W
R23	VRS-CY1JB103J	AA			10 kohm,1/16W
R24	VRS-CY1JB104J	AA			100 kohm,1/16W
R25	VRS-CY1JB563J	AA			56 kohms,1/16W
R27	VRS-CY1JB103J	AA			10 kohms,1/16W
R28	VRS-CY1JB103J	AA			10 kohms,1/16W
R43	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R51	VRS-CY1JB103J	AA			10 kohm,1/16W
R52	VRS-CY1JB333J	AA			33 kohms,1/16W
R53	VRS-CY1JB103J	AA			10 kohms,1/16W
R801	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R802	VRD-ST2CD470J	AA			47 kohms,1/6W
R803	VRD-ST2CD473J	AA			47 kohms,1/6W
R804	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R805	VRD-ST2CD223J	AA			22 kohms,1/6W
R806	VRD-ST2CD561J	AA			560 kohms,1/6W
R807	VRD-ST2CD224J	AA			220 kohms,1/6W
R808	VRD-ST2CD473J	AA			47 kohms,1/6W
R809	VRD-ST2CD472J	AA			4.7 kohms,1/6W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R811	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R812	VRD-ST2CD221J	AA			220 ohms,1/6W
R813	VRD-ST2CD101J	AA			100 ohms,1/6W
R814	VRD-ST2CD512J	AA			5.1 kohms,1/6W
R815	VRD-ST2CD272J	AA			2.7 kohms,1/6W
R816	VRD-ST2CD101J	AA			100 ohms,1/6W
R817	VRD-ST2CD102J	AA			1 kohms,1/6W
R818	VRD-ST2CD102J	AA			1 kohms,1/6W
R819	VRD-ST2EE102J	AA			1 kohms,1/4W
R820	VRD-ST2CD221J	AA			220 ohms,1/6W
R822	VRD-ST2CD103J	AA			10 kohms,1/6W
R823	VRD-ST2EE392J	AA			3.9 kohms,1/4W
R825	VRD-ST2CD101J	AA			100 ohms,1/6W
R826	VRD-ST2CD512J	AA			5.1 kohms,1/6W
R827	VRD-RT2HD824J	AA			820 kohms,1/2W
R828	VRS-VV3DA114J	AB			110 kohms,2W
R829	VRS-VV3DA104F	AB			100 kohms,2W
R830	VRD-ST2EE392J	AA			3.9 kohms,1/4W
R831	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R832	VRD-ST2CD103J	AA			10 kohms,1/6W
R836	VRD-ST2EE105J	AA			1 Mohms,1/4W
R837	VRD-ST2CD104J	AA			100 kohms,1/6W
R838	VRD-ST2CD333J	AA			33 kohms,1/6W
R839	VRD-RT2HD180J	AA			18 ohms,1/2W
R840	VRD-RT2HD100J	AA			10 ohms,1/2W
R841	VRD-ST2CD223J	AA			22 kohms,1/6W
R842	VRD-RT2HD680J	AA			68 ohms,1/2W
R843	VRD-RT2HD680J	AA			68 ohms,1/2W
R844	VRD-ST2EE332J	AA			3.3 kohms,1/4W
R845	VRD-ST2CD101J	AA			100 ohms,1/6W
R846	VRD-RT2HD394J	AA			390 kohms,1/2W
R847	VRD-ST2CD122J	AA			1.2 kohms,1/6W
R848	VRD-ST2CD103J	AA			10 kohms,1/6W
R849	VRD-ST2CD272J	AA			2.7 kohms,1/6W
R852	VRS-VV3LA473J	AC			47 kohms,3W
R853	VRD-ST2EE562J	AA			5.6 kohms,1/4W
R854	VRD-ST2EE562J	AA			5.6 kohms,1/4W
RA1	VRS-CY1JB123J	AA			12 kohms,1/16W
RA2	VRS-CY1JB123J	AA			12 kohms,1/16W
RA3	VRS-CY1JB123J	AA			12 kohms,1/16W
RA4	VRS-CY1JB123J	AA			12 kohms,1/16W
RA5	VRS-CY1JB123J	AA			12 kohms,1/16W
RA6	VRS-CY1JB123J	AA			12 kohms,1/16W
RA7	VRS-CY1JB473J	AA			47 kohms,1/16W
RA8	VRS-CY1JB473J	AA			47 kohms,1/16W
RA9	VRS-CY1JB473J	AA			47 kohms,1/16W
RA10	VRS-CY1JB473J	AA			47 kohms,1/16W
RA11	VRS-CY1JB473J	AA			47 kohms,1/16W
RA12	VRS-CY1JB473J	AA			47 kohms,1/16W
RA25	VRS-CY1JB183J	AA			18 kohms,1/16W
RA26	VRS-CY1JB103J	AA			10 kohm,1/16W
RF1	VRS-CY1JB103J	AA			10 kohms,1/16W
RF3	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RF4	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RF6	VRS-CY1JB303J	AA			30 kohms,1/16W
RF7	VRS-TV2AB100J	AA			10 ohms,1/10W
RF8	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RF9	VRN-CM05N220J	AD			22 ohms,5W
RF10	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RF12	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RF13	VRS-TV2AB100J	AA			10 ohms,1/10W
RF14	VRN-CM05N220J	AD			22 ohms,5W
RF16	VRS-CY1JB105J	AA			1 Mohms,1/16W
RF17	VRS-CY1JB105J	AA			1 Mohms,1/16W
RF18	VRS-CY1JB104J	AA			100 kohms,1/16W
RF19	VRS-CY1JB104J	AA			100 kohms,1/16W
RF22	VRS-CY1JB104J	AA			100 kohms,1/16W
RF23	VRS-CY1JB103J	AA			10 kohms,1/16W
RF24	VRS-CY1JB104J	AA			100 kohms,1/16W
RF25	VRS-CY1JB563J	AA			56 kohms,1/16W
RF27	VRS-CY1JB103J	AA			10 kohms,1/16W
RF28	VRS-CY1JB103J	AA			10 kohms,1/16W
RF43	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RF51	VRS-CY1JB103J	AA			10 kohms,1/16W
RF52	VRS-CY1JB333J	AA			33 kohms,1/16W
RM1	VRS-CY1JB183J	AA			18 kohms,1/16W
RM2	VRS-CY1JB103J	AA			10 kohm,1/16W
RM4	VRS-CY1JB103J	AA			10 kohms,1/16W
RM6	VRS-CY1JB473J	AA			47 kohms,1/16W
RM7	VRS-CY1JB473J	AA			47 kohms,1/16W
RM8	VRS-CY1JB473J	AA			47 kohms,1/16W
RM9	VRS-CY1JB223J	AA			22 kohms,1/16W
RM10	VRS-CY1JB822J	AA			8.2 kohms,1/16W
RM11	VRS-CY1JB563J	AA			56 kohms,1/16W
RM12	VRS-CY1JB102J	AA			1 kohm,1/16W
RM13	VRS-CY1JB102J	AA			1 kohm,1/16W
RM14	VRS-CY1JB102J	AA			1 kohm,1/16W
RM15	VRS-CY1JB151J	AA			150 ohms,1/16W
RM16	VRS-CY1JB151J	AA			150 ohms,1/16W

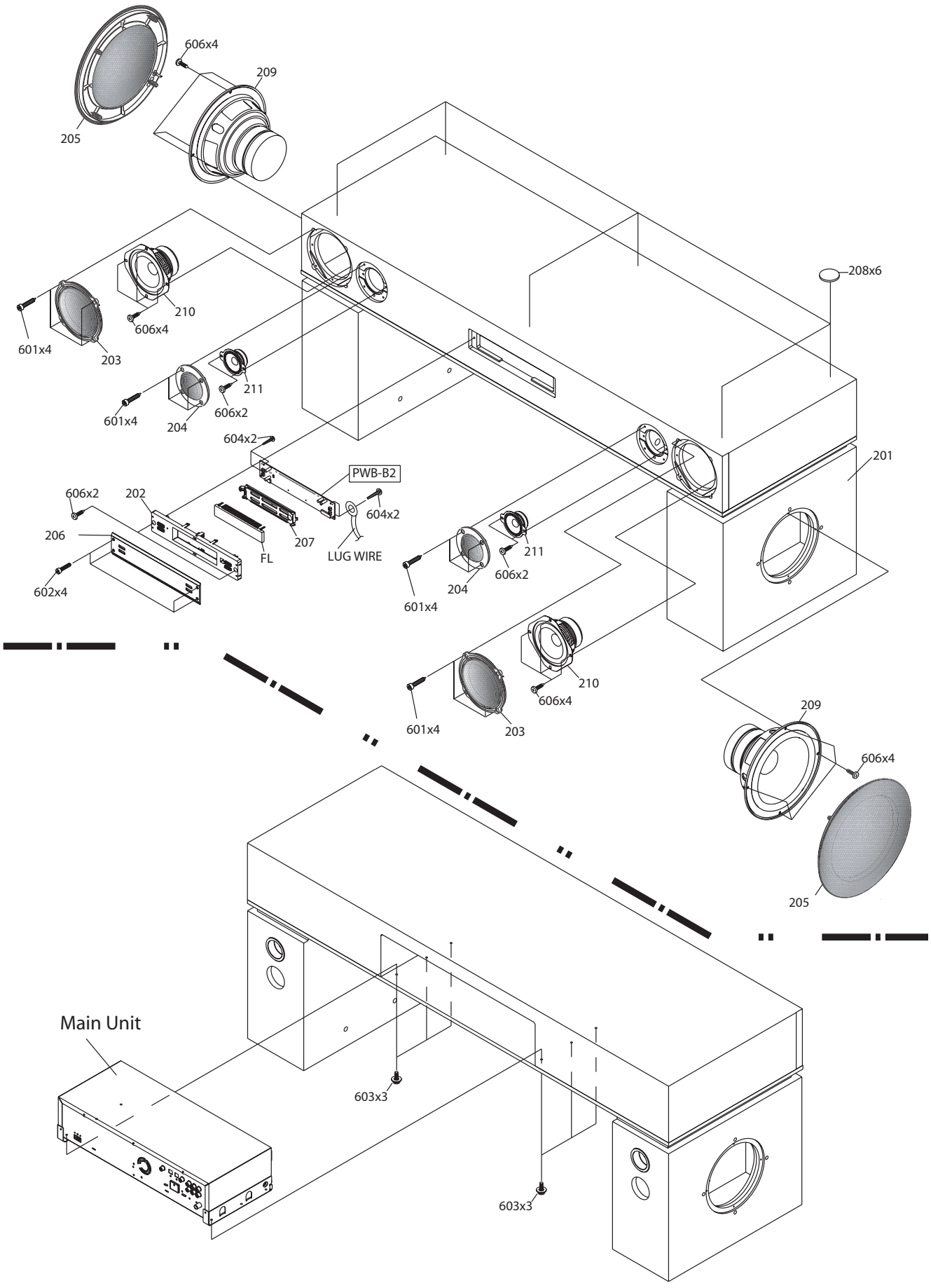
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
RM19	VRS-CY1JB302J	AA			3 kohms,1/16W
RM20	VRS-CY1JB104J	AA			100 kohm,1/16W
RM21	VRS-CY1JB102J	AA			1 kohm,1/16W
RM22	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM23	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM24	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM25	VRS-CY1JB102J	AA			1 kohm,1/16W
RM26	VRS-CY1JB102J	AA			1 kohm,1/16W
RM27	VRS-CY1JB102J	AA			1 kohm,1/16W
RM28	VRS-CY1JB102J	AA			1 kohm,1/16W
RM29	VRS-CY1JB102J	AA			1 kohm,1/16W
RM30	VRS-CY1JB473J	AA			47 kohms,1/16W
RM31	VRS-CY1JB102J	AA			1 kohm,1/16W
RM32	VRS-CY1JB102J	AA			1 kohm,1/16W
RM33	VRS-CY1JB102J	AA			1 kohm,1/16W
RM34	VRS-CY1JB102J	AA			1 kohm,1/16W
RM35	VRS-CY1JB330J	AA			33 ohms,1/16W
RM36	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
RM37	VRS-CY1JB151J	AA			150 ohms,1/16W
RM38	VRS-CY1JB151J	AA			150 ohms,1/16W
RM39	VRS-CY1JB102J	AA			1 kohm,1/16W
RM40	VRS-CY1JB102J	AA			1 kohm,1/16W
RM41	VRS-CY1JB474J	AA			470 kohms,1/16W
RM42	VRS-CY1JB102J	AA			1 kohm,1/16W
RM43	VRS-CY1JB102J	AA			1 kohm,1/16W
RM44	VRS-CY1JB102J	AA			1 kohm,1/16W
RM45	VRS-CY1JB103J	AA			10 kohm,1/16W
RM46	VRS-CY1JB102J	AA			1 kohm,1/16W
RM47	VRS-CY1JB103J	AA			10 kohm,1/16W
RM48	VRS-CY1JB151J	AA			150 ohms,1/16W
RM52	VRS-CY1JB104J	AA			100 kohm,1/16W
RM53	VRS-CY1JB103J	AA			10 kohm,1/16W
RM54	VRS-CY1JB103J	AA			10 kohm,1/16W
RM55	VRS-CY1JB101J	AA			100 ohm,1/16W
RM56	VRS-CY1JB122F	AA			1.2 kohms,1/16W
RM57	VRS-CY1JB105J	AA			1 Mohm,1/16W
RM58	VRS-CY1JB473J	AA			47 kohms,1/16W
RM59	VRS-CY1JB330J	AA			12 kohms,1/16W
RM60	VRS-CY1JB330J	AA			33 ohms,1/16W
RM61	VRS-CY1JB102J	AA			1 kohm,1/16W
RM62	VRS-CY1JB103J	AA			10 kohm,1/16W
RM64	VRS-CY1JB103J	AA			10 kohm,1/16W
RM65	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM66	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM67	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM69	VRS-CY1JB123J	AA			12 kohms,1/16W
RM70	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM71	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM72	VRS-CY1JB102J	AA			1 kohm,1/16W
RM73	VRS-CY1JB102J	AA			1 kohm,1/16W
RM74	VRS-CY1JB102J	AA			1 kohm,1/16W
RM75	VRS-CY1JB391J	AA			390 ohms,1/16W
RM76	VRS-CY1JB473J	AA			47 kohms,1/16W
RM77	VRS-CY1JB104J	AA			100 kohm,1/16W
RM78	VRS-CY1JB473J	AA			47 kohms,1/16W
RM79	VRS-CY1JB473J	AA			47 kohms,1/16W
RM80	VRS-CY1JB473J	AA			47 kohms,1/16W
RM81	VRS-CY1JB681J	AA			680 ohms,1/16W
RM82	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM83	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM84	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM85	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
RM86	VRS-CY1JB105J	AA			1 Mohm,1/16W
RM87	VRS-CY1JB123J	AA			12 kohms,1/16W
RM88	VRS-CY1JB102J	AA			1 kohm,1/16W
RM89	VRS-CY1JB103J	AA			10 kohm,1/16W
RM90	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM91	VRS-CY1JB274J	AA			270 kohms,1/16W
RM93	VRS-CY1JB102J	AA			1 kohm,1/16W
RM94	VRS-CY1JB511J	AA			510 ohms,1/16W
RM95	VRS-CY1JB472D	AA			4.7 kohms,1/16W
RM96	VRS-CY1JB102J	AA			1 kohm,1/16W
RM97	VRS-CY1JB511J	AA			510 ohms,1/16W
RM98	VRS-CY1JB102J	AA			1 kohm,1/16W
RM99	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM100	VRS-CY1JB102J	AA			1 kohms,1/16W
RM101	VRS-CY1JB102J	AA			1 kohms,1/16W
RM103	VRS-CY1JB103J	AA			10 kohm,1/16W
RM104	VRS-CY1JB223J	AA			22 kohms,1/16W
RM105	VRS-CY1JB103J	AA			10 kohm,1/16W
RM106	VRS-CY1JB103J	AA			10 kohm,1/16W
RM107	VRS-CY1JB223J	AA			22 kohms,1/16W
RM108	VRS-CY1JB563J	AA			56 kohms,1/16W
RM109	VRS-CY1JB822J	AA			8.2 kohms,1/16W
RM110	VRS-CY1JB102J	AA			1 kohm,1/16W
RM111	VRS-CY1JB103J	AA			10 kohms,1/16W
RM112	VRS-CY1JB152J	AA			1.5 kohms,1/16W
RM113	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM114	VRS-CY1JB102J	AA			1 kohm,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
RM115	VRS-CY1JB101J	AA			100 ohm,1/16W
RM116	VRS-CY1JB273J	AA			27 kohms,1/16W
RM120	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RM121	VRS-CY1JB104J	AA			100 kohm,1/16W
RM122	VRS-CY1JB102J	AA			1 kohm,1/16W
RM123	VRS-CY1JB221J	AA			220 ohms,1/16W
RM124	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM125	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RM127	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RM129	VRS-CY1JB221J	AA			220 ohms,1/16W
RM130	VRS-CY1JB221J	AA			220 ohms,1/16W
RM131	VRS-CY1JB683J	AA			68 kohms,1/16W
RM133	VRS-CY1JB683J	AA			68 kohms,1/16W
RM134	VRS-CY1JB102J	AA			1 kohm,1/16W
RM135	VRS-CY1JB102J	AA			1 kohm,1/16W
RM136	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RM137	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RM138	VRS-CY1JB331J	AA			330 ohms,1/16W
RM139	VRS-CY1JB331J	AA			330 ohms,1/16W
RM140	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM141	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RM142	VRS-CY1JB102J	AA			1 kohm,1/16W
RM143	VRS-CY1JB154J	AA			150 kohms,1/16W
RM144	VRS-CY1JB154J	AA			150 kohms,1/16W
RM146	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
RM148	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM149	VRS-CY1JB223J	AA			22 kohms,1/16W
RM150	VRS-CY1JB151J	AA			150 ohms,1/16W
RM151	VRS-CY1JB473J	AA			47 kohms,1/16W
RM152	VRS-CY1JB223J	AA			22 kohms,1/16W
RM153	VRS-CY1JB223J	AA			22 kohms,1/16W
RM154	VRS-CY1JB223J	AA			22 kohms,1/16W
RM155	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM157	VRS-CY1JB153J	AA			15 kohms,1/16W
RM158	VRS-CY1JB104J	AA			100 kohm,1/16W
RM159	VRS-CY1JB153J	AA			15 kohms,1/16W
RM160	VRS-CY1JB153J	AA			15 kohms,1/16W
RM163	VRS-CY1JB122J	AA			1.2 kohms,1/16W
RM164	VRS-CY1JB122J	AA			1.2 kohms,1/16W
RM165	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RM166	VRS-CY1JB561J	AA			560 ohms,1/16W
RM167	VRS-CY1JB224J	AA			220 kohms,1/16W
RM168	VRS-CY1JB472J	AA			4.7 kohms,1/16W
RM174	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
RM175	VRS-CY1JB102J	AA			1 kohm,1/16W
RM176	VRS-CY1JB104J	AA			100 kohm,1/16W
RM177	VRS-CY1JB563J	AA			56 kohms,1/16W
RM178	VRS-CY1JB103J	AA			10 kohm,1/16W
RM179	VRS-CY1JB104J	AA			100 kohm,1/16W
RM180	VRS-CY1JB102J	AA			1 kohm,1/16W
RM181	VRS-CY1JB391J	AA			390 ohms,1/16W
RM182	VRS-CY1JB473J	AA			47 kohms,1/16W
RM183	VRS-CY1JB474J	AA			470 kohms,1/16W
RM184	VRS-CY1JB333J	AA			33 kohms,1/16W
RM185	VRS-CY1JB473J	AA			47 kohms,1/16W
RM186	VRS-CY1JB102J	AA			1 kohm,1/16W
RM187	VRS-CY1JB103J	AA			10 kohm,1/16W
RM188	VRS-CY1JB273J	AA			27 kohms,1/16W
RM189	VRS-CY1JB473J	AA			47 kohms,1/16W
RM191	VRS-CY1JB122J	AA			1.2 kohms,1/16W
RM199	VRS-CY1JB560J	AA			56 ohms,1/16W
RM200	VRS-CY1JB152J	AA			1.5 kohms,1/16W
RM201	VRS-CY1JB102J	AA			1 kohm,1/16W
RM202	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM203	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM204	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RM205	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RM206	VRS-CY1JB473J	AA			47 kohms,1/16W
RM207	VRS-CY1JB102J	AA			1 kohms,1/16W
RM208	VRS-TV2AB000J	AA			0 ohm,Jumper,1.25x2mm,Green
RM210	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM211	VRS-CY1JB103J	AA			10 kohm,1/16W
RM212	VRS-CY1JB103J	AA			10 kohm,1/16W
RM214	VRS-CY1JB330J	AA			33 ohms,1/16W
RM215	VRS-CY1JB330J	AA			33 ohms,1/16W
RM219	VRS-CY1JB330J	AA			33 ohms,1/16W
RM220	VRS-CY1JB330J	AA			33 ohms,1/16W
RM221	VRS-CY1JB151J	AA			150 ohms,1/16W
RM223	VRS-CY1JB330J	AA			33 ohms,1/16W
RM225	VRS-CY1JB102J	AA			1 kohm,1/16W
RM230	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM232	VRS-TQ2BB000J	AA			0 ohm,Jumper,1.55x3.1mm,Green
RM234	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
RM235	VRS-CY1JB103J	AA			10 kohms,1/16W
RM236	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
RM238	VRS-CY1JB223J	AA			22 kohms,1/16W
RM239	VRS-CY1JB223J	AA			22 kohms,1/16W
RM240	VRS-CY1JB223J	AA			22 kohms,1/16W
RM241	VRS-CY1JB223J	AA			22 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
RM242	VRS-CY1JB223J	AA			22 kohms,1/16W
RM243	VRS-CY1JB223J	AA			22 kohms,1/16W
RM244	VRS-CY1JB472J	AA			4.7 kohms,1/16W
RM245	VRS-CY1JB472J	AA			4.7 kohms,1/16W
RM247	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
RM248	VRS-CY1JB102J	AA			1 kohm,1/16W
RM251	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
RM254	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
RM255	VRS-TQ2BB000J	AA			0 ohms,Jumper,1.55x3.1mm,Green
RM256	VRS-CY1JB102J	AA			1 kohms,1/16W
RM257	VRS-CY1JB102J	AA			1 kohms,1/16W
RM258	VRS-CY1JB102J	AA			1 kohms,1/16W
RM259	VRS-CY1JB102J	AA			1 kohms,1/16W
RM260	VRS-CY1JB102J	AA			1 kohms,1/16W
RM261	VRS-CY1JB102J	AA			1 kohms,1/16W
RM262	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM263	VRS-CY1JB472J	AA			4.7 kohms,1/16W
RM264	VRS-CY1JB103J	AA			10 kohms,1/16W
RM266	VRS-CY1JB393J	AA			39 kohms,1/16W
RM267	VRS-CY1JB000J	AA			0 ohms,Jumper,0.8x1.55mm,Green
RM268	VRD-ST2CD821J	AA			820 ohms,1/6W
RM269	VRD-ST2CD821J	AA			820 ohms,1/6W
RP1	VRD-ST2CD102J	AA			1 kohms,1/6W
RP2	VRS-CY1JB223J	AA			22 kohms,1/16W
RP3	VRS-CY1JB332J	AA			3.3 kohms,1/16W
RP4	VRS-CY1JB102J	AA			1 kohms,1/16W
RP5	VRS-CY1JB102J	AA			1 kohms,1/16W
RP7	VRS-CY1JB102J	AA			1 kohms,1/16W
RP10	VRS-CY1JB221J	AA			220 ohms,1/16W
RP11	VRS-CY1JB103J	AA			10 kohms,1/16W
RP12	VRS-CY1JB471J	AA			470 ohms,1/16W
RP13	VRS-CY1JB221J	AA			220 ohms,1/16W
RP14	VRD-ST2CD102J	AA			1 kohms,1/6W
RP15	VRS-CY1JB123J	AA			12 kohms,1/16W
RP16	VRD-ST2CD102J	AA			1 kohms,1/6W
RP19	VRD-ST2CD102J	AA			1 kohms,1/6W
RP20	VRD-ST2CD102J	AA			1 kohms,1/6W
RP21	VRS-CY1JB103J	AA			10 kohms,1/16W
RT1	VRS-CY1JB224J	AA			220 kohms,1/16W
RT2	VRS-CY1JB683J	AA			68 kohms,1/16W
RT3	VRS-CY1JB223J	AA			22 kohms,1/16W
RT5	VRS-CY1JB223J	AA			22 kohms,1/16W
RT6	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RT7	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RT8	VRS-CY1JB101J	AA			100 ohms,1/16W
RT9	VRS-CY1JB101J	AA			100 ohms,1/16W
RT10	VRS-CY1JB101J	AA			100 ohms,1/16W
RT11	VRS-CY1JB101J	AA			100 ohms,1/16W
RT12	VRS-CY1JB563J	AA			56 kohms,1/16W
RT13	VRS-CY1JB563J	AA			56 kohms,1/16W
RT14	VRS-CY1JB103J	AA			10 kohms,1/16W
RT16	VRS-CY1JB102J	AA			1 kohms,1/16W
RT17	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RT18	VRS-CY1JB102J	AA			1 kohms,1/16W
RT19	VRS-CY1JB102J	AA			1 kohms,1/16W
RT20	VRS-CY1JB103J	AA			10 kohms,1/16W
RT21	VRS-CY1JB103J	AA			10 kohms,1/16W
[10] OTHER CIRCUITRY PARTS					
BI1	QCNWNA695AWPZ	AG			Connector Ass'y 7 Pin with CNS
BI2	QCNWNA696AWPZ	AH			Connector Ass'y 7 Pin with CNS
BI800	QCNWNA697AWPZ	AK			Connector Ass'y 15 Pin with CNS
BI801	QCNWNA691AWPZ	AE			Connector Ass'y 3 Pin with CNS
BIF1	QCNWN2393AWZZ	AG			Connector Ass'y 7 Pin with CNS
BIF2	QCNWNA694AWPZ	AK			Connector Ass'y 7 Pin with CNS
BIM1	QCNWNA701AWPZ	AG			Connector Ass'y 8 Pin with CNS
BIM2	QCNWNA692AWPZ	AK			Connector Ass'y 12 Pin with CNS
CNM1	QCNWNA688AWPZ	AD			Single Wire
CNM4	92LCONEFP53253	AE			Plug,15Pin
CNM5	92LCONE8P53254	AC			Plug,8Pin
CNM6	92LCONE7P53254	AB			Plug,7Pin
CNP1	QCNCM670DAFZZ	AC			Plug,4 Pin
CNP01	QCNCM670DAFZZ	AE			Plug,15Pin
CNP02	92LCONE3P53253	AB			Plug,3Pin
CNP03	92LCONECP53253	AD			Plug,12 Pin
CNP04	92LCONE8P53253	AC			Plug,8Pin
CNP05	92LCONE8P53254	AC			Plug,8Pin
CNP801	92LCONE7P5267X	AC			Plug,7Pin
CNP802	92LCONE7P5267X	AC			Plug,7Pin
CNPF1	QCNCMA045AW02	AD			Plug,2Pin
CNPF2	QCNCMA045AW02	AD			Plug,2Pin
CNPP1	92LCONE3P53254	AB			Plug,3Pin
CNPP2	92LCONECP53254	AB			Plug,12Pin
CNPPS1	QCNWNA698AWPZ	AP			Connector Ass'y,15/3&12 Pin within CNNPS2
CNT1	QCNCWZX11AWZZ	AC			Socket,11Pin
CWM1	QCNWNA354AWPZ	AC			Connector Ass'y
CWP1	QCNWNA744AWPZ	AE			Wire with Lug
CWP2	QCNWNA745AWPZ	AF			Wire

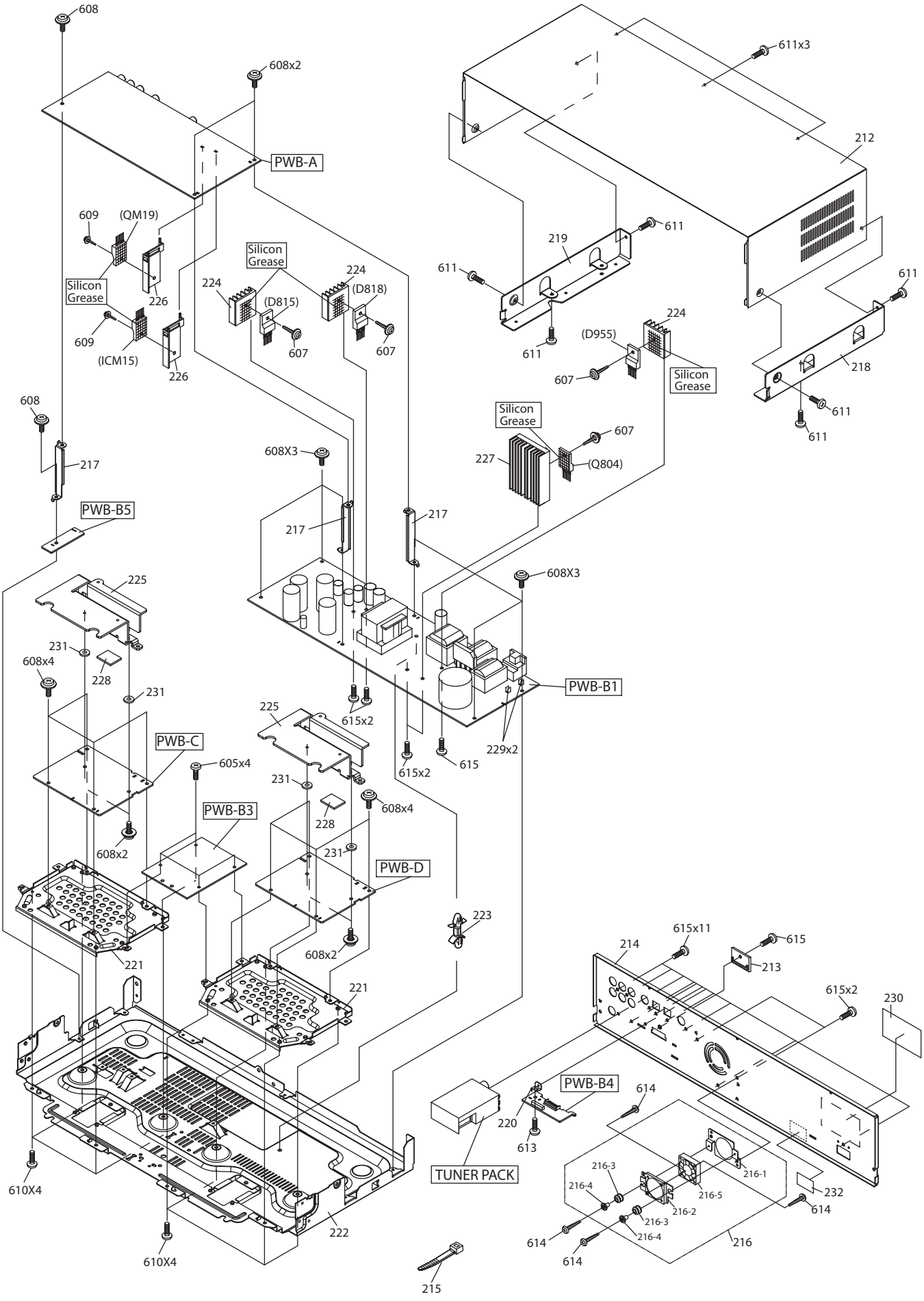
	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[10] OTHER CIRCUITRY PARTS					
⚠	F800	QFS-C402AAWNL	AD			Fuse,4A / 250V
	FFCT1	QCNWN2525AWPZ	AD			Flat Cable,11 Pin
	FL100	VVKNA10SM54-1	AV			FL Display
	JK4	QTANAA009AWSA	AD			Terminal,Woofer
	JKM2	QSOCJA011AWZZ	AC			Jack,Sub Woofer,Pre Out
	LUG01	QLUGP0002AWZZ	AB			Lug
	LUG02	QLUGP0001AWZZ	AC			Lug
	LUG1	QLUGP0001AWZZ	AC			Lug
	LUG2	QLUGP0001AWZZ	AC			Lug
	LUGM1	QLUGP0001AWZZ	AC			Lug
	LUGM2	QLUGP0001AWZZ	AC			Lug
	LUGM3	QLUGP0001AWZZ	AC			Lug
⚠	PC800	RH-FX0008GEZZ	AE			Photocoupler
⚠	PC801	RH-FX0008GEZZ	AE			Photocoupler
	RL800	RRLYDA002AWZZ	AF			Relay
	RML1	VHLK2013TH2E1	AG			Remote Sensor
	RXM1	VHPGPA313RZ-1	AL			Optical Digital Input,GPAV31RK
	RXM2	VHPGPA313RZ-1	AL			Optical Digital Input,GPAV31RK
⚠	SO800	QSOCA0212AWZZ	AD			Socket,AC Input
	SOA1	QSOCJA019AWZZ	AF			Jack,
	SOM2	QSOCJA016AWZZ	AC			Jack,Coaxial Digital Input
	SW1	92LSWiCHT1663T	AC			Switch,Key Type [Power]
	SW2	92LSWiCHT1663T	AC			Switch,Key Type [Power]
	SW3	92LSWiCHT1663T	AC			Switch,Key Type [Power]
	SW4	92LSWiCHT1663T	AC			Switch,Key Type [Power]
	Tuner Pack	RTUNFA001AWZZ	BB			Tuner Pack
⚠	VA800	VHVSVS10K30-1	AD			Varistor,SVS10K30

[11] CABINET PARTS 1



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] CABINET PARTS 1					
201	GBOXSA144AW01	CW			Rack Unit Ass'y
202	CCABA6613AW01	AR			Front Frame Ass'y
203	CWAKPA026AW01	AR			Woofer Grill Ass'y
204	CWAKPA027AW01	AN			Tweeter Grill Ass'y
205	CWAKPA028AW01	AR			Subwoofer Net Ass'y
206	HDECQA293AWSA	AK			Decoration Panel
207	LHLDZA141AWZZ	AF			Holder, FL Display
208	PSHEGA012AWZZ	AE			Felt, Anti Slip
209	RSP-ZA208AWZZ	BB			Subwoofer
210	RSP-ZA209AWZZ	AX			Woofer
211	RSP-ZA210AWZZ	AR			Tweeter
601	LX-EZA015AWF8	AD			Screw, Special
602	LX-EZA016AWF8	AB			Screw, Special
603	LX-JZA010AWF7	AD			Screw, M3x12mm
604	XEBY726P10000	AA			Screw, M2.6 X10mm
605	XJBY730P08000	AA			Screw, M3 X8mm
606	XMPY840P12000	AB			Screw, M4x12m

[12] CABINET PARTS 2



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[12] CABINET PARTS 2					
212	GCAB-A045AWSA	AU			Top Cabinet
213	GCOVA1515AWSA	AF			Cover, Connecter
214	GITARA378AWSA	AM			Rear Panel
215	92LNBAND1318A	AA			Nylon Band, 80mm
216	92LFAN6509ASY1	AX			Fan Motor Ass'y
216-1	LANGK0402AWFW	AE			Bracket, Fan Motor A
216-2	LANGK0403AWFW	AE			Bracket, Fan Motor B
216-3	PCUSG0095AWZZ	AD			Cushion
216-4	PSPAZ0039AWZZ	AC			Spacer
216-5	RMOTV0058AWZZ	AV			Motor, Air Cooling Fan
217	LANGKA090AWFW	AE			Bracket, Main PWB
218	LANGKA095AWFW	AG			Bracket, Support L
219	LANGKA096AWFW	AG			Bracket, Support R
220	LANGT0042AWFW	AC			Bracket, Fixing
221	LCHSMA051AWFW	AL			Chassis, Amplifier
222	LCHSMA053AWFW	AU			Chassis, Main
223	LHLDFA011AWZZ	AD			Support, PWB
224	PRDAR0315AWFW	AD			Heat Sink
225	PRDARA108AWFW	AM			Heat Sink
226	PRDARA111AWFW	AD			Heat Sink
227	PRDARA122AWFW	AL			Heat Sink
228	PSPAZA008AWZZ	AF			Spacer
⚠ 229	QFSHD0001AWZZ	AB			Holder, Fuse
230	TSPC-A648AWZZ	AD			Label, Specification (Europe) [AN-PR1000H]
230	TSPC-A649AWZZ	AD			Label, Specification (Australia/New Zealand) [AN-PR1000H]
230	TSPC-A650AWZZ	AD			Label, Specification (Singapore) [AN-PR1000H]
230	TSPC-A651AWZZ	AD			Label, Specification (Middle East/Africa) [AN-PR1000H]
230	TSPC-A652AWZZ	AD			Label, Specification (Russia) [AN-PR1000HR]
231	PSHEZA112AWZZ	AB			Washer, Fiber
232	PFLT-A049AWZZ	AA			Felt
605	XJBY730P08000	AA			Screw, M3 X8mm
607	LX-JZ0036AWF7	AC			Screw, Special
608	LX-JZ0047AWF7	AB			Screw, Special
609	LX-JZA017AWF7	AB			Screw, Special
610	XHBY730P06000	AB			Screw, M3 X6mm
611	XHBY830P08000	AB			Screw, M4 X8mm
613	XJBY730P10000	AA			Screw, M3 X10mm
614	XJBY730P16000	AB			Screw, M3 X16mm
615	XJBY830P08000	AB			Screw, M3 X8mm
[13] PACKING PARTS					
1	JHNDPA004AWZZ	AL			Handle, Packing Case
2	LANGKA101AWZZ	BM			Frame, Metal
3	PGLSNA003AWZZ	BX			Glass, Top
4	PGLSNA004AWZZ	BV			Glass, Bottom
5	SPAKAA133AWZZ	AQ			Packing Add, Bottom
6	SPAKAA134AWZZ	AV			Packing Add, Top
7	SPAKAA135AWZZ	AN			Packing Add, Center
8	SPAKCA388AWZZ	AZ			Packing Case, Top
9	SPAKCA391AWZZ	AX			Packing Case, Bottom
10	SPAKZA366AWZZ	AK			Sheet, Miramat
11	SPAKZA368AWZZ	AD			Packing Add, Protection
12	SSAKHA084AWZZ	AE			Polyethylene Bag, Rack Unit
[14] ACCESSORIES					
1	----------	--			Battery (Not Replacement Item) [Except for Australia/New Zealand]
2	92L45T1U004	BN			Wire, Safety
3	92L45T1U005	AC			Screw, M6x12mm
4	92L45T1U006	AC			Screw, M6x30 mm
5	92L45T1U007	AC			Washer
6	92LBAG667B	AC			Polyethylene Bag, Accessories
7	92LFANT1535A	AF			FM Antenna
8	92LPR1HU001	AY			Screw, M6x20 mm
9	92LPR1HU003	AY			Cushion, Metal Frame
10	LHLDZA142AWZZ	AD			Clip, Wire
⚠ 11	QACCEA002AW00	AL			AC Power Supply Cord [Except Australia/New Zealand]
⚠ 11	QACCLA002AW00	AQ			AC Power Supply Cord [For Australia/New Zealand only]
13	RRMCGA100AWSA	BA			Remote Control
14	SSAKAA006AWZZ	AB			Polyethylene Bag, Quick Guide
15	SSAKAA008AWZZ	AB			Polyethylene Bag, Accessories
16	TCAUZA053AWZZ	AB			Sheet,Caution (Except Europe)
16	TCAUZA057AWZZ	AD			Sheet,Caution (For Europe only)
17	TGANZ0041AWZZ	AC			Warranty Card [AN-PR1000HR]
18	TiNSEA148AWZZ	AE			Quick Guide
18	TINSEA143AWZZ	AL			Operation Manual [For Australia/New Zealand only] [AN-PR1000H]
18	TiNSZA208AWZZ	AX			Operation Manual [For Europe only] [AN-PR1000H]
18	TiNSZA214AWZZ	AQ			Operation Manual [For Middle East/Africa, Singapore only] [AN-PR1000H]
18	TiNSZA215AWZZ	AL			Operation Manual [For Russia only] [AN-PR1000HR]
19	TLABSA003AWZZ	AB			Label, GOST ROST [AN-PR1000HR]
20	TLABZA274AWZZ	AB			Label, Energy (GEA)
21	TLABZA288AWZZ	AB			Label, CW [For Europe and Russia only]
22	TLABZA423AWZZ	AB			Caution, Battery [For Australia/New Zealand only] [AN-PR1000H]
23	TLABZA415AWZZ	AB			Label, Made In Malaysia [Except Singapore and Russia]
24	TLABZA417AWZZ	AD			Label, Pop

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[15] P.W.B. ASSEMBLY (Not Replacement Item)					
PWB-A	92LPWB6613MANS	--			MAIN
PWB-B	92LPWB6613PWRS	--			POWER(B1), DISPLAY(B2), TRANSMIT(B3), RE-FRESH MICOM (B4), SPACER(B5)
PWB-C	92LPWB6613AMPS	--			AMPLIFIER
PWB-D	92LPWB6613SWFS	--			SUB WOOFER

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP

SHARP CORPORATION
Sharp-Roxy Corporation
Sungai Petani, Kedah,
Malaysia

Printed in Malaysia
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SG•SA•SZ•EX•RUS

AUDIO TECHNICAL BULLETIN

MODELS **AN-PR1000H**

SYMPTOM No Function and error code “ERR80”.

CAUSE EEPROM errors.

ACTION When replaced please follow the instructions below.

REF NO	DESCRIPTION	PART NUMBER	PRICE CODE
ICM8	EEPROM IXA116AW	RH-IXA116AW00	AG

- Holding down both the **Power** and **Function** Buttons, plug in or turn on the mains supply.
- Unit will enter the Test mode and display the Microprocessor Version number.
- Using the remote press the **Sound** button.
- The display will show “EEP.Test”.
- Press and hold the **Volume down** button for longer than 2 Seconds.
- Display will show “EEP.lL”
- Press the **Power** button twice.
- The display will show “Goodbye”
- The process is now completed.