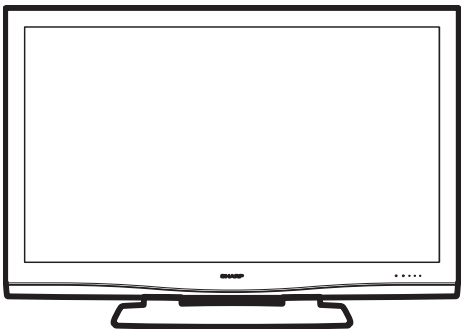
SHARP SERVICE MANUAL

No. S76V5LC46XD1E



LCD COLOUR TELEVISION

MODELS LC-46XD1E/RU
LC-52XD1E/RU

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Parts Guide

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.

CHAPTER 1. IMPORTANT SERVICE SAFETY PRECAUTION

[1] IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the** servicing guidelines which follow:

1. WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

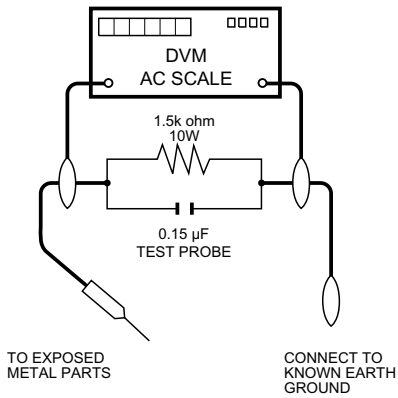
CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE
F701 (4A / 250V)

2. BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 220 - 240 volt AC outlet. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- A true RMS reading multimeter should be used for this test, especially where the equipment uses a switch mode power supply which may result in very non-sinusoidal leakage current.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
  Any reading of 1.75 Vrms (this corresponds to 0.7 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



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[2] Precautions for using lead-free solder

1. Employing lead-free solder

- ALL "PWBs" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

  Example:

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

- For the Inverter PWB Units the type used in nickel, so they are marked as LFn:.

Indicates lead-free solder of tin, silver and nickel.

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 corroded. 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

Part No,	★	Description	Code
ZHNDAi123250E	J	ϕ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm 1kg(1roll)	BM

CHAPTER 2. SPECIFICATIONS

[1] SPECIFICATIONS

Item			46" LCD COLOUR TV, Model: LC-46XD1E	52" LCD COLOUR TV, Model: LC-52XD1E
LCD panel			46" Advanced Super View & BLACK TFT LCD	52" Advanced Super View & BLACK TFT LCD
Number of dots			6,220,800 dots (1920 g 1080 g 3 dots)	
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
TV Function	TV-Standard	Analogue	CCIR (B/G, I, D/K, L, L')	
		Digital	DVB-T (2K/8K OFDM)	
	Receiving Channel	VHF/UHF	E2-E69ch, F2-F10ch, I21-I69ch, IR A-IR Jch, (Digital: E5-E69ch)	
		CATV	Hyper-band, S1-S41ch	
	TV-Tuning System		Auto Preset 999 ch, Auto Label, Auto Sort	
	STEREO/BILINGUAL		NICAM/A2	
Brightness			450 cd/m^2	
Backlight life			60,000 hours (at Backlight Standard position)	
Viewing angles			H : 176° V : 176°	
Audio amplifier			15W x 2	
Speaker			(100 mm x 40 mm) x 4	
Terminals	Rear	Antenna input	UHF/VHF 75Ω Din type (Analogue & Digital)	
		RS-232C	9 pin MINI-DIN male connector	
		EXT 1	SCART (AV input, Y/C input, RGB input, TV output)	
		EXT 2	SCART (AV input/monitor output, Y/C input, AV Link)	
		EXT 3	S-VIDEO (Y/C input), RCA pin (AV input)	
		EXT 4	Ø 3.5 mm jack (Audio input), 15 pin mini D-sub (PC/Component)	
		EXT 5	HDMI, Ø 3.5 mm jack (Audio input)	
		EXT 6	HDMI	
		C. I. (Common Interface)	EN50221, R206001	
		OUTPUT	RCA pin (Audio)	
		Headphones	Ø 3.5mm jack (Audio output)	
OSD language			English/German/French/Italian/Spanish/Dutch/Swedish/Portuguese/Finnish/ Turkish/Greek/Russian/Polish	
Power Requirement			AC 220-240 V, 50 Hz	
Power Consumption			260 W (2.7 W Standby) (Method IEC60107)	280 W (2.7 W Standby) (Method IEC60107)
Weight			31.5 kg (Without stand), 36.0 kg (With stand)	36.0 kg (Without stand), 40.0 kg (With stand)
Operating temperature			0°C to + 40°C	

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

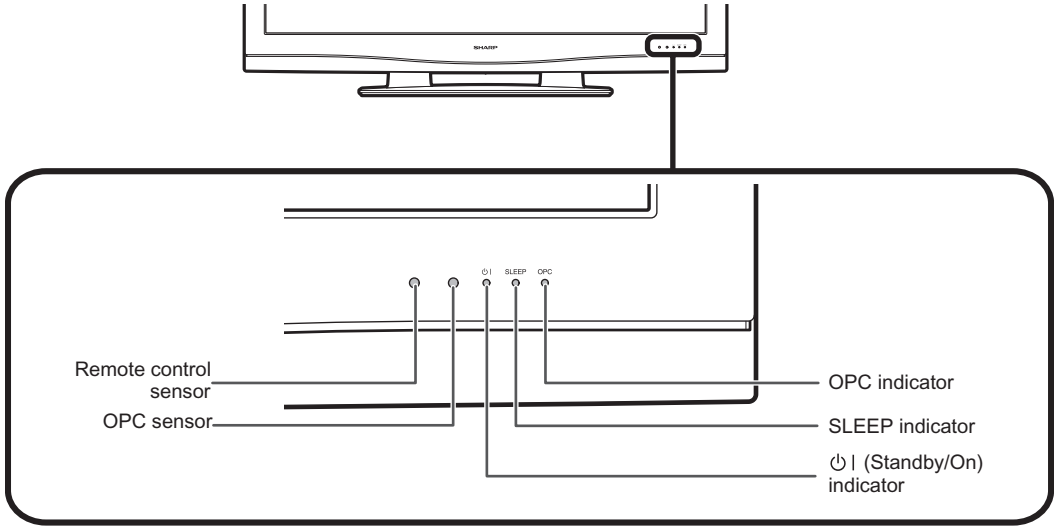
NOTE
- Refer to inside back cover for dimensional drawings.

CHAPTER 3. OPERATION MANUAL

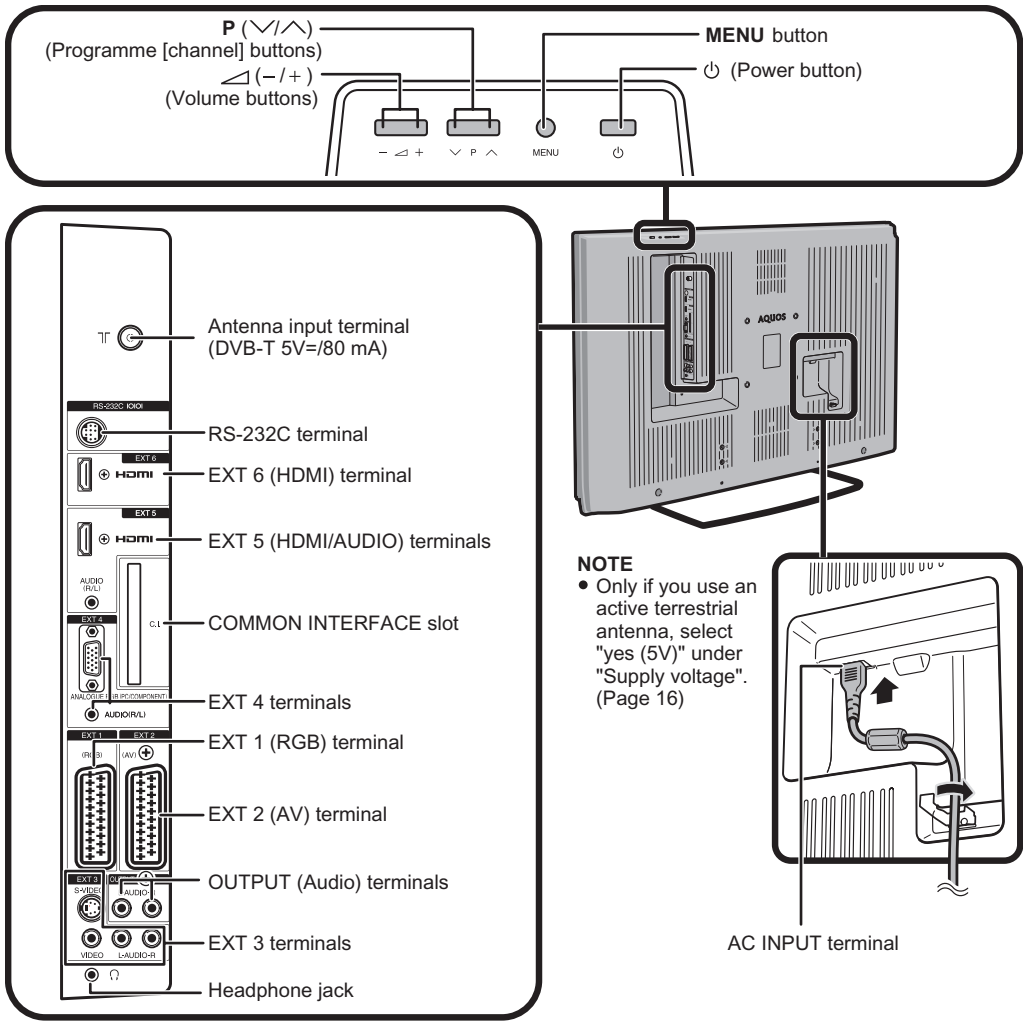
[1] OPERATION MANUAL

Quick guide

TV (Front view)



TV (Rear view)

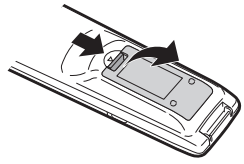


NOTE

- Only if you use an active terrestrial antenna, select "yes (5V)" under "Supply voltage". (Page 16)

Inserting the batteries

Before using the TV for the first time, insert two "AAA" size batteries (supplied). When the batteries become depleted and the remote control unit fails to operate, replace the batteries with new "AAA" size batteries.



1 Press and slide the battery cover to open it.

2 Insert two supplied "AAA" size batteries.
- Place batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.

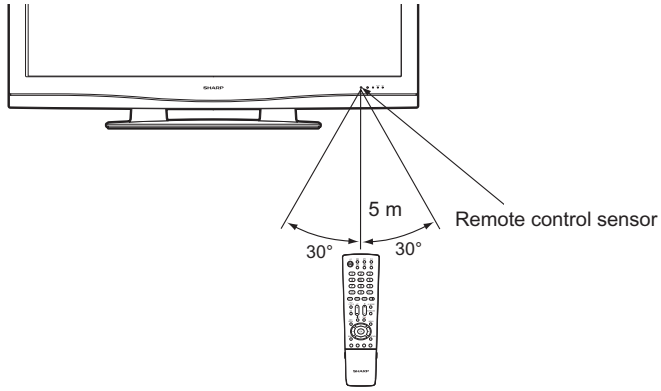
3 Close the battery cover.

CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions. If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

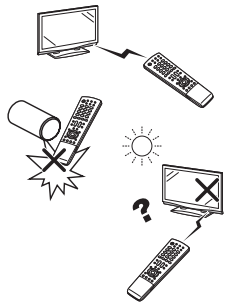
Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may prevent proper operation.

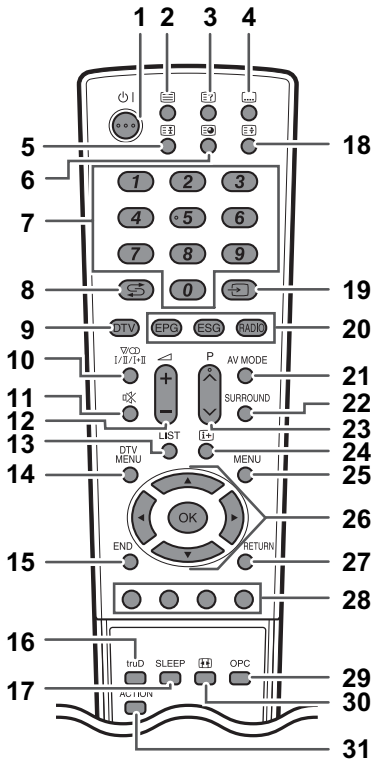


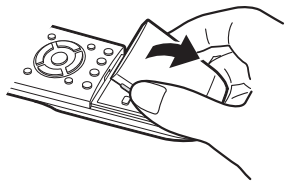
Cautions regarding the remote control unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or strong lighting. In such case, change the angle of the lighting or TV, or operate the remote control unit closer to the remote control sensor.



Remote control unit





1 **(Standby/On)**

2 **(Teletext)**

TV: Display the analogue teletext.

DTV: Select DTV data broadcasting and TELETEXT.

3 **(Reveal hidden Teletext)**

4 **(Subtitle for Teletext)**

TV/External: Subtitle on/off.

DTV: Display the subtitle selection screen.

5 **(Freeze/Hold)**

6 **(Subpage)**

7 **0** .. **9**

Set the channel in TV and DTV mode.

Enter the desired numbers or letters.

Set the page in Teletext mode.

8 **(Flashback)**

Press to return to the previous image in normal viewing mode.

9 **DTV**

Press to access DTV mode while watching other input sources, and vice versa.

(Will not work if you were watching DTV immediately before turning off the TV. In this case first select any other input source except DTV using the button.)

10 **(Sound mode)**

Select the sound multiplex mode.

(See below.)

11 **(Mute)**

Sound on/off

12 **(+ / -) (Volume)**

Increase/decrease volume.

13 **LIST**

DTV: Display the programme list.

14 **DTV MENU**

DTV: Display DTV Menu screen.

15 **END**

Exit the menu screen.

16 **truD**

Demonstrate the truD effects in a dual screen format.

17 **SLEEP**

Set the sleep timer on (in units of 30 min. up to max. 2hr. 30min) and off.

18 **(Top/Bottom/Full)**

Set the area of magnification in analogue teletext mode.

19 **(INPUT SOURCE)**

Select an input source.

(TV, DTV, EXT1, EXT2, EXT3, EXT4, EXT5, EXT6)

20 **EPG**

DTV: To display EPG (Electronic Programme Guide) screen.

ESG

DTV: To display ESG (Electronic Service Guide) screen.

RADIO

DTV: Switch between RADIO and DTV mode.

21 **AV MODE**

Select a video setting.

22 **SURROUND**

Surround effects on/off.

23 **P (/)**

Select the channel.

In analogue TV mode, external input sources (EXT 1 - 6) can also be selected.

24 **(Display information)**

25 **MENU**

MENU screen on/off.

26 **▲/▼/◀/▶ (Cursor)**

Select a desired item on the setting screen.

OK

Execute a command within the menu screen.

Display the station list in analogue mode and the programme list in DTV mode.

27 **RETURN**

Return to the previous menu screen.

28 **Colour (Red/Green/Yellow/Blue)**

TELETEXT: Select a page.

The coloured buttons are used to select correspondingly to the coloured items in the menu screen.

29 **OPC**

To switch the Optical Picture Control on and off.

30 **(Wide modes)**

Select the wide mode.

31 **ACTION (Action mode)**

Action mode on/off.

Using on the remote control unit

DTV mode:

Press to open the multi audio screen.

Analogue TV mode:

Each time you press , the mode switches as illustrated in the following tables.

NICAM TV broadcasts selection

Signal	Selectable items
Stereo	Stereo, Mono!
Bilingual	Dual-channel Sound 1, Dual-channel Sound 2, Dual-channel Sound 1+2, Mono!
Monaural	NICAM, Mono!

A2 TV broadcasts selection

Signal	Selectable items
Stereo	Stereo, Mono!
Bilingual	Dual-channel Sound 1, Dual-channel Sound 2, Dual-channel Sound 1+2
Monaural	Mono

NOTE

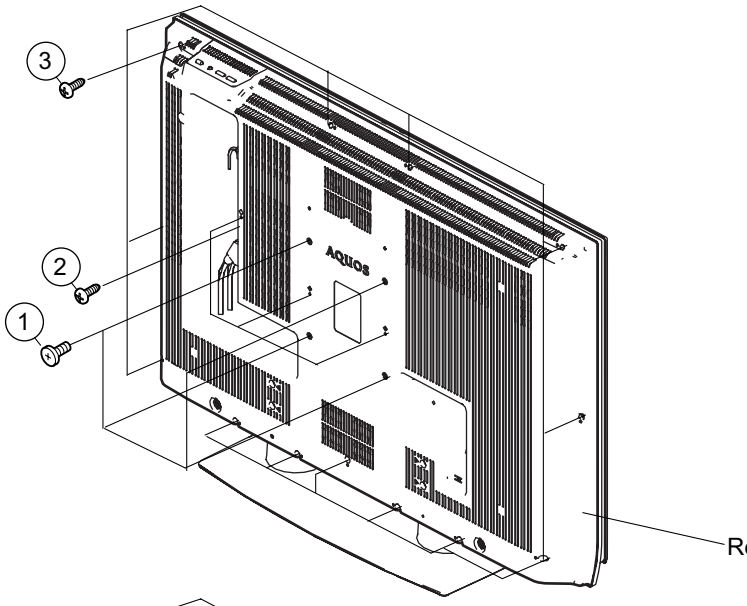
- When no signal is input, the sound mode will display "Mono".
- "Mono!" indicates that you have manually changed to FM mono.

CHAPTER 4. REMOVING OF MAJOR PARTS

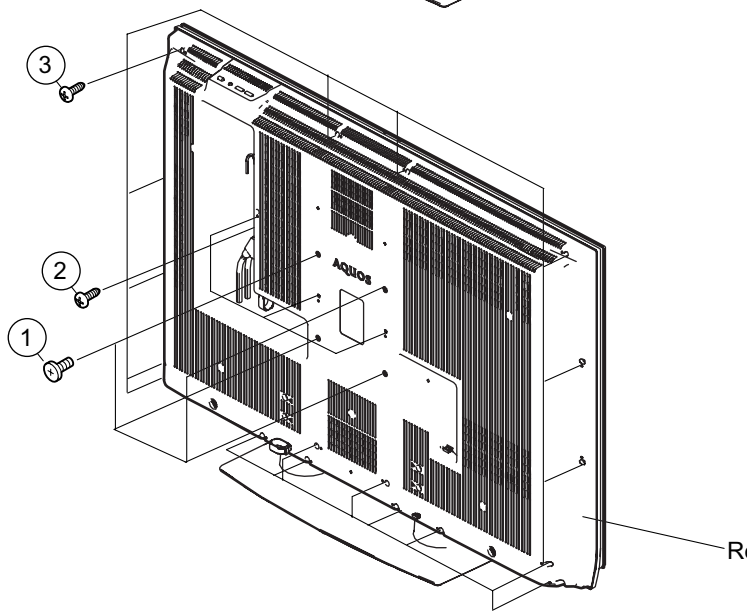
[1] REMOVING OF MAJOR PARTS

1. Remove the Rear Cabinet fixing screws (4 pcs.).
2. LC-46XD1E/RU: Remove the Rear Cabinet fixing screws (4 pcs.).
   LC-52XD1E/RU: Remove the Rear Cabinet fixing screws (4 pcs.).
3. LC-46XD1E/RU: Remove the Rear Cabinet fixing screws (13 pcs.).
   LC-52XD1E/RU: Remove the Rear Cabinet fixing screws (18 pcs.).

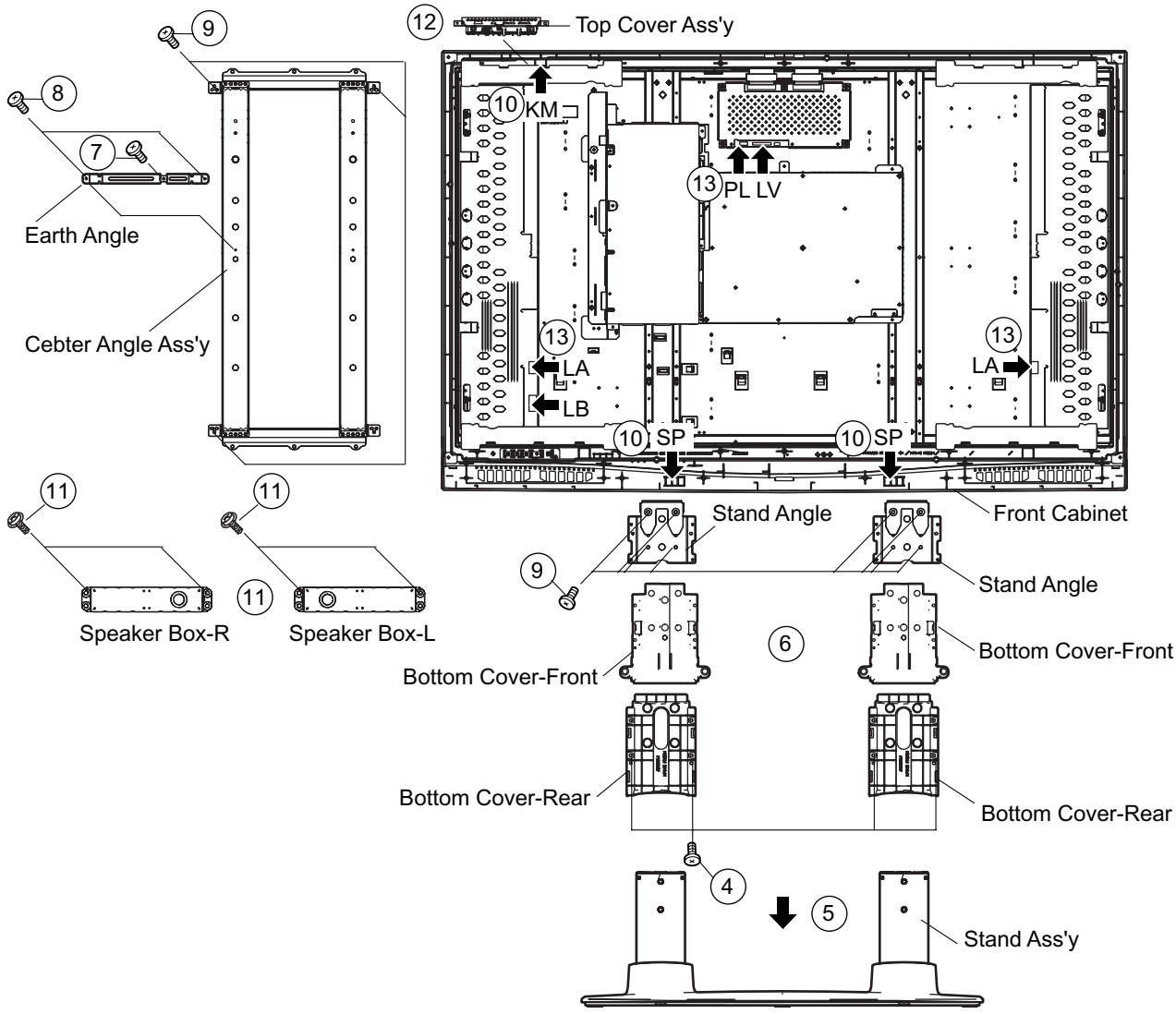
LC-46XD1E/RU



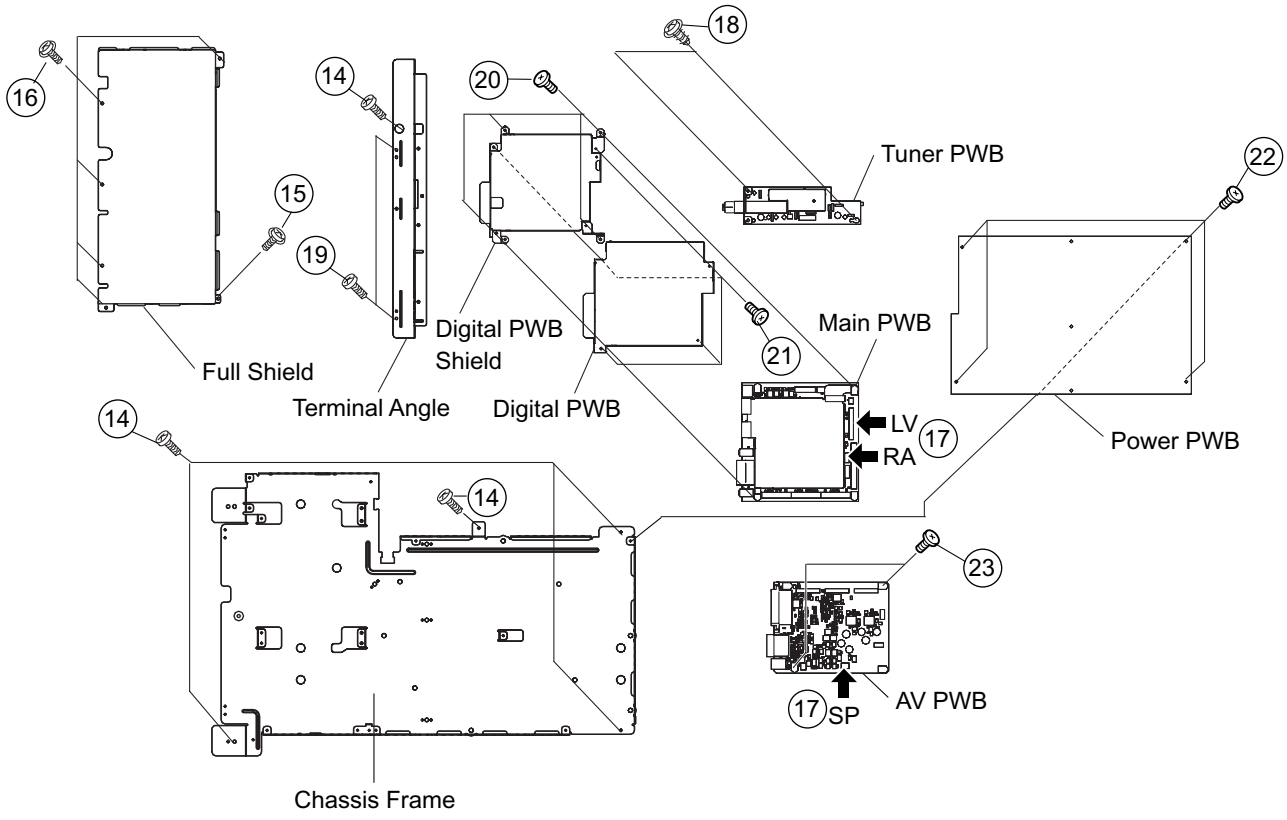
LC-52XD1E/RU



4. Remove the Bottom Cover-Rear fixing screws (4 pcs.).
5. Remove Stand Ass'y from the Front Cabinet.
6. Remove the Bottom Cover-Front from the Front Cabinet.
7. Remove the Earth Angle fixing screw (1 pc.).
8. Remove the Earth Angle fixing screw (2 pcs.).
9. Remove the Stand Angle and Center Angle Ass'y fixing screws (12 pcs.).
10. Disconnect Speaker Wiresand "KM" Wire.
11. Remove the speaker fixing screws (4 pcs.) and detach the Speaker Boxies L/R.
12. Detach the Top Cover Ass'y.
13. Disconnect all the connectors fron all the PWBs.



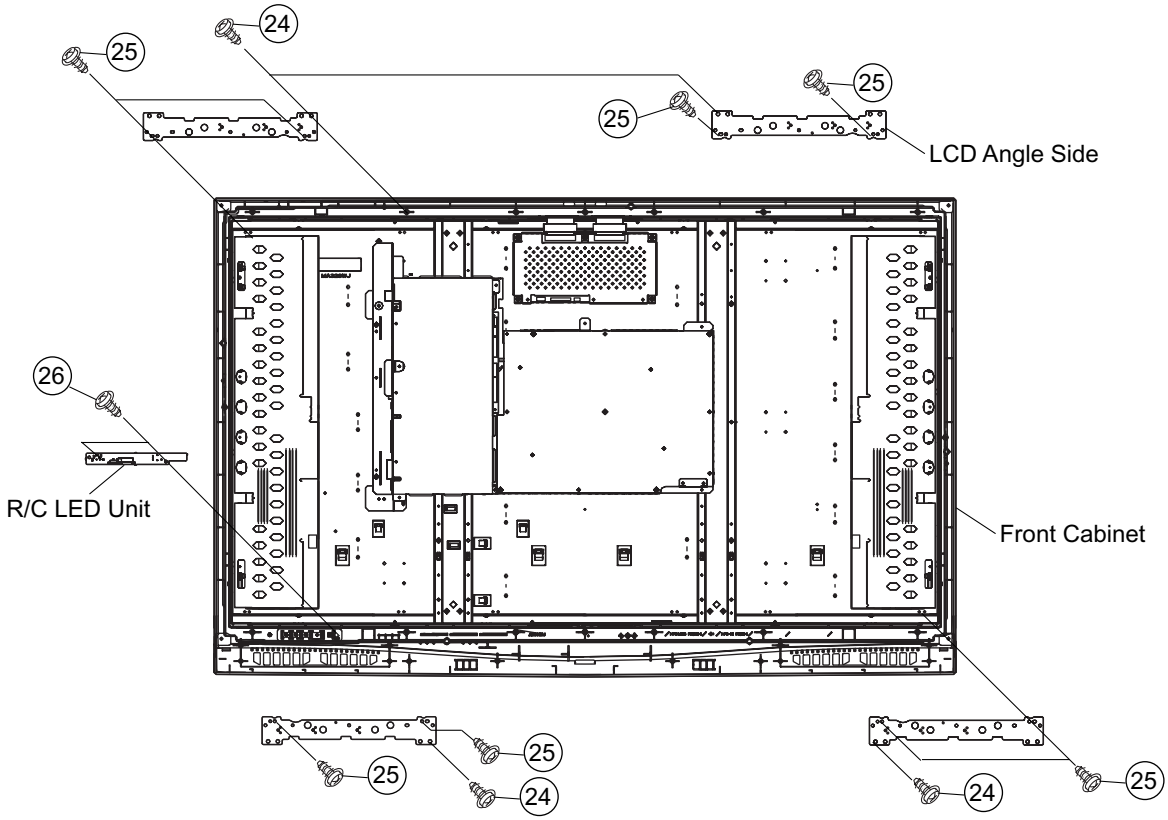
14. LC-46XD1E/RU: Remove the Chassis Tray fixing screws (5 pcs.).
    LC-52XD1E/RU: Remove the Chassis Tray fixing screws (4 pcs.).
15. Remove the Full Shield fixing screws (1 pc.).
16. Remove the Full Shield fixing screws (5 pcs.).
17. Disconnect all the connectors from all the PWBs.
18. Remove the Tuner PWB fixing screws (2 pcs.).
19. Remove the Terminal Angle fixing screws (2 pcs.).
20. Remove the Main PWB Shield and Main PWB fixing screws (4 pcs.).
21. Remove the Digital PWB and Digital PWB Shield fixing screws (4 pcs.).
22. Remove the Power PWB fixing screws (4 pcs.).
23. Remove the AV PWB fixing screws (2 pcs.).



24.Remove the LCD Angle Side fixing screws (4 pcs.).

25.Remove the LCD Angle Side fixing screws (8 pcs.).

26.Remove the R/C LED PWB fixing screws (2 pcs.).



CHAPTER 5. ADJUSTMENT PROCEDURE

[1] ADJUSTMENT PROCEDURE

The adjustment values are set to their optimum at the factory before shipping .

If by any chance a value should become improper or a readjustment is required due to part replacement, make an adjustment according to the following procedure.

1. After replacement of any PWB and/or IC for repair, note the following.

When replacing the following units, be sure to prepare the new units loaded with updated software.

MAIN-UNIT: DUNTKD915FM01 (LC-52XD1E/K/F/I/RU)

: DUNTKD915FM01 (LC-46XD1E/K/F/I/RU)

NOTE: That an IC into which ROM data is written is available for MAIN-UNIT servicing (see below).

IC1901 VHi24LC2BiNQES EDID(HDMI)

IC1902 VHi24LC2BiNRES EDID(HDMI)

IC2303 RH-iXB731WJZZS EDID(PC)

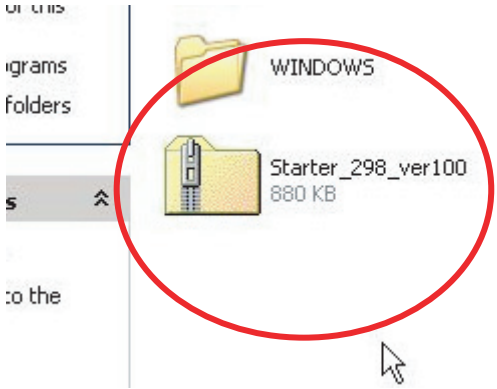
2. Software Upgrade

Main software update procedure of SHARP LCDTV

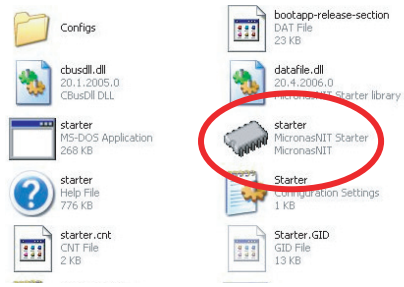
1. Connect your PC and LCDTV by 232C-CROSS-CABLE.

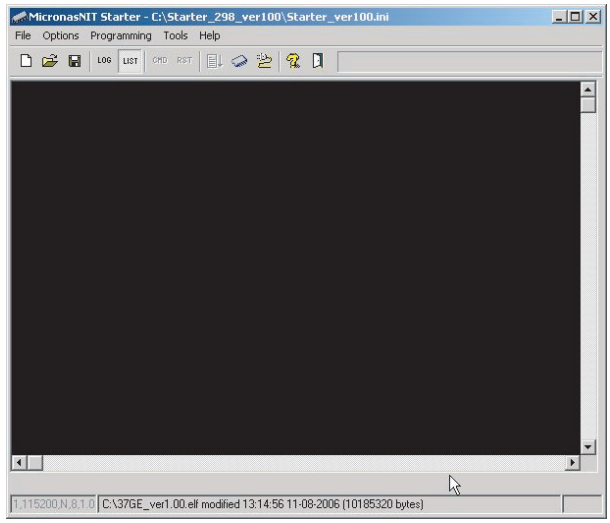
Set up starter298

2. Decompress starter_298_ver100.zip.



3. Double click on starter.exe and running.

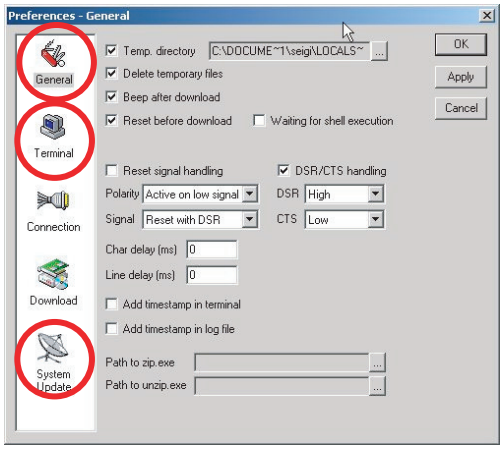




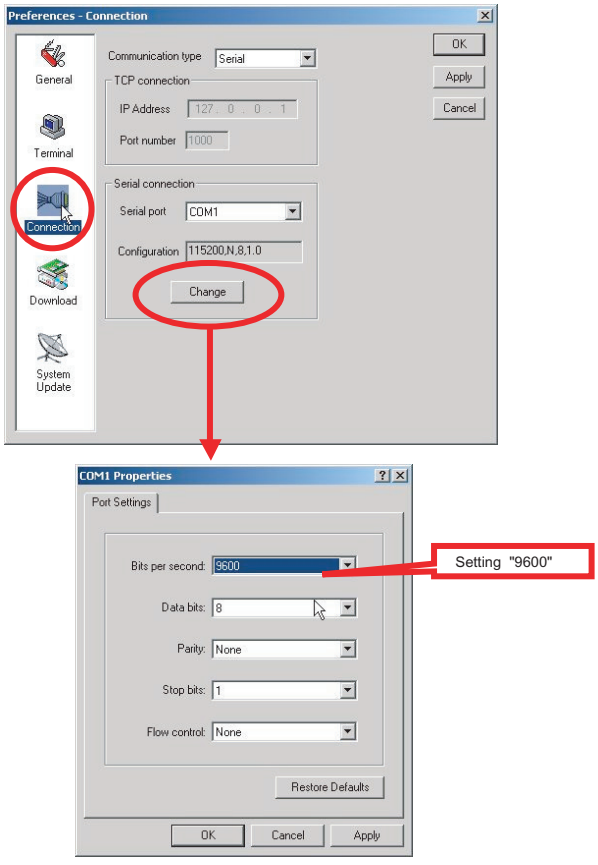
4. Set the parameters of the starter software as below.

   i) [Options]-[Preferences] Setup window will be opened.

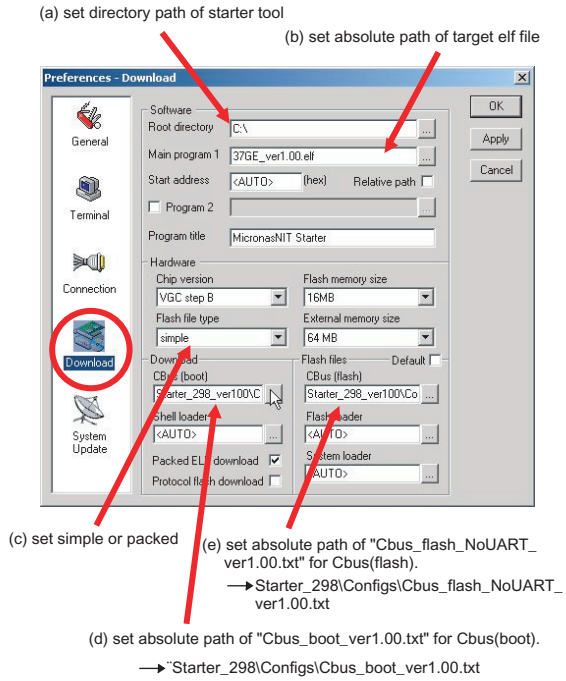
   1) "General","Terminal","System update": no need to modify anything.



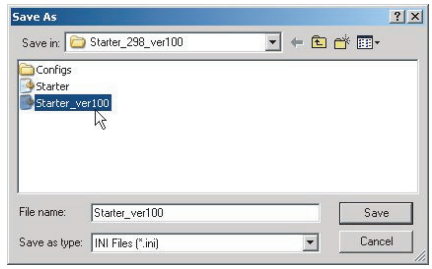
   2) "Connection": set COM port number and configuration on your PC.



   3) "Download": set configuration as below.



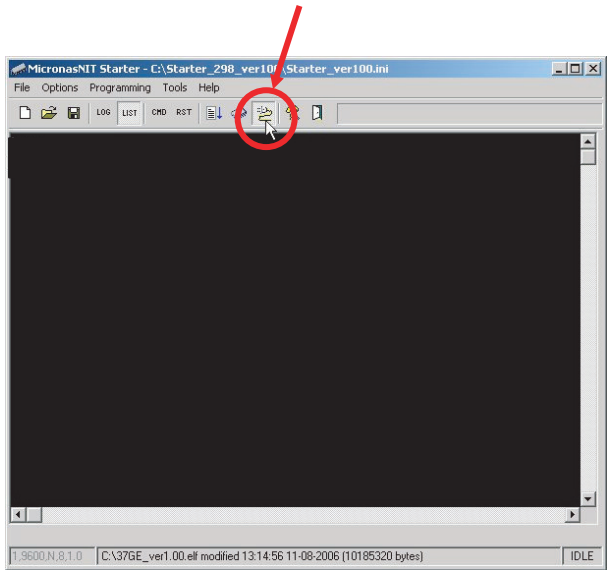
5. [File]-[Save as] you can save above settings as file name as you want.



Download

6. Connect to the LCD TV and start up "starter298" software.
7. After turn on the power of set, please push the below connect button.

NOTE: If set power was turned off and on with this condition, strange character will be appear, so if this strange character appear, please ignore.

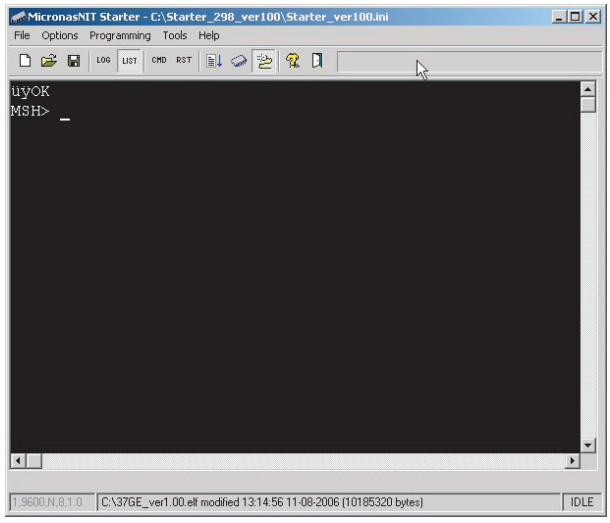


8. Input "USEROFF" command (non-visited) and return key on your PC. (get "OK"message)

in capital letters

Input "DPON" command and return key on your PC. (get "MSH>" message)

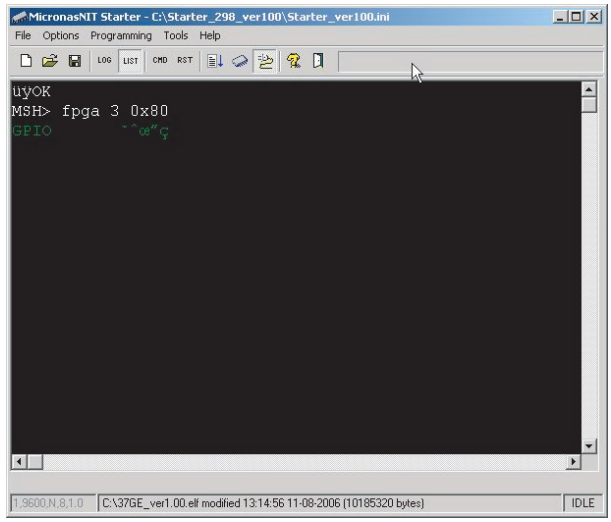
in capital letters



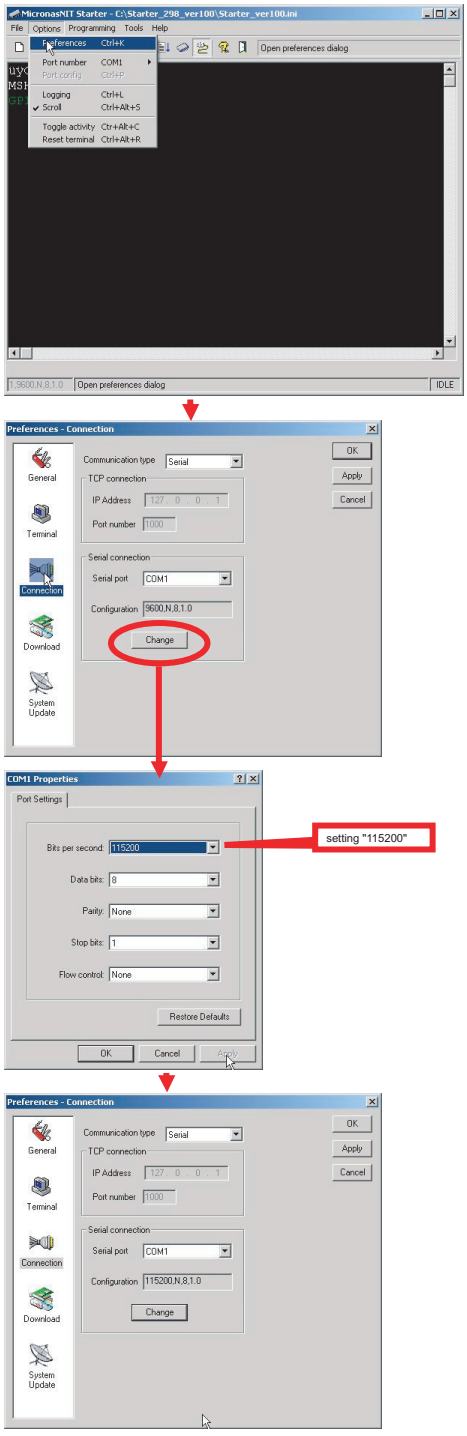
9. Input "fpga 3 0x80" command and return key on your PC, and the

in small letters

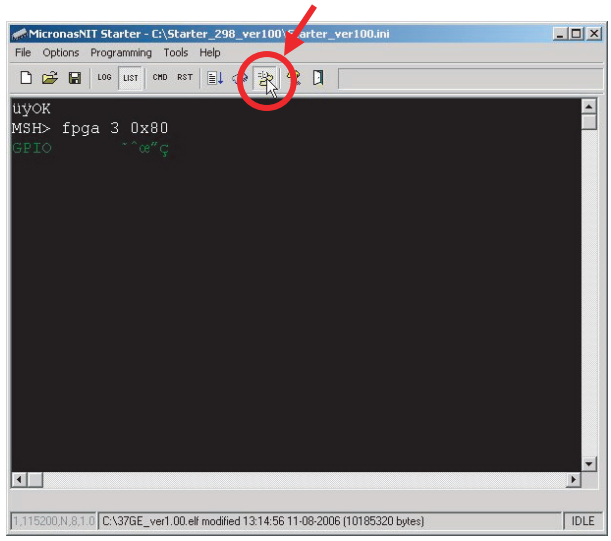
LCD TV is turned off automatically.



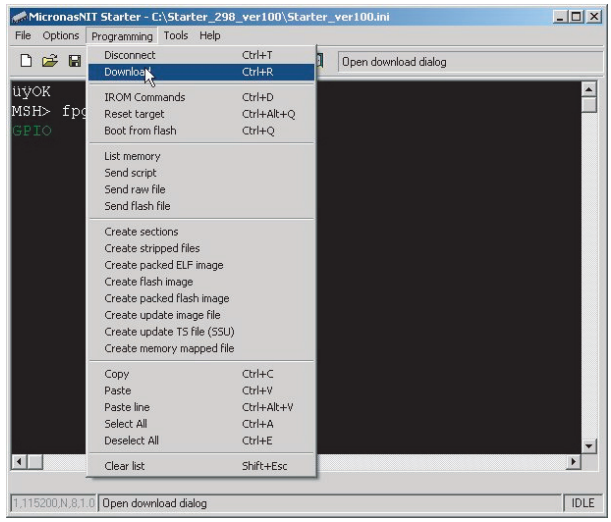
10. Change the port settings.



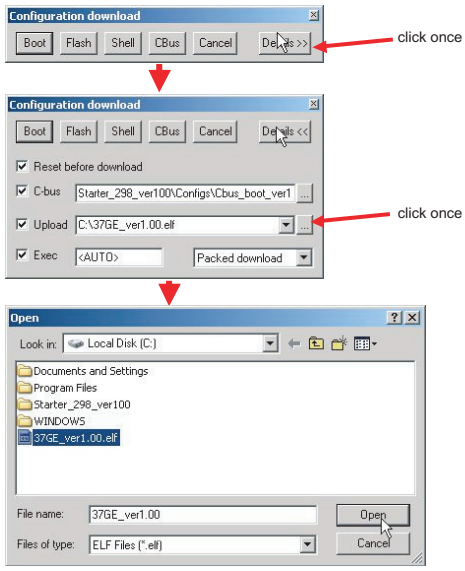
11. Connect to the LCD TV by activating the connection button.



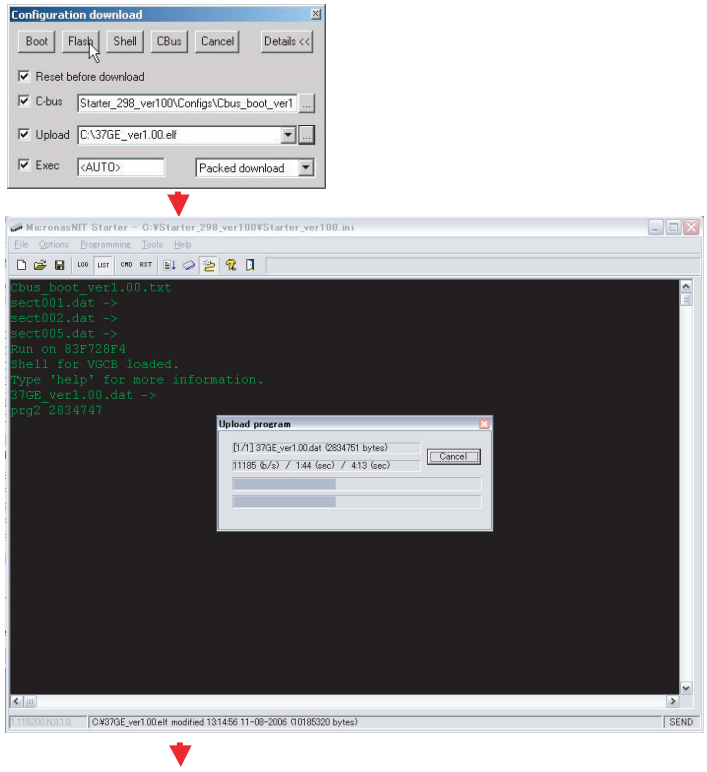
12. [Programming]-[Download] Download window will be opened.



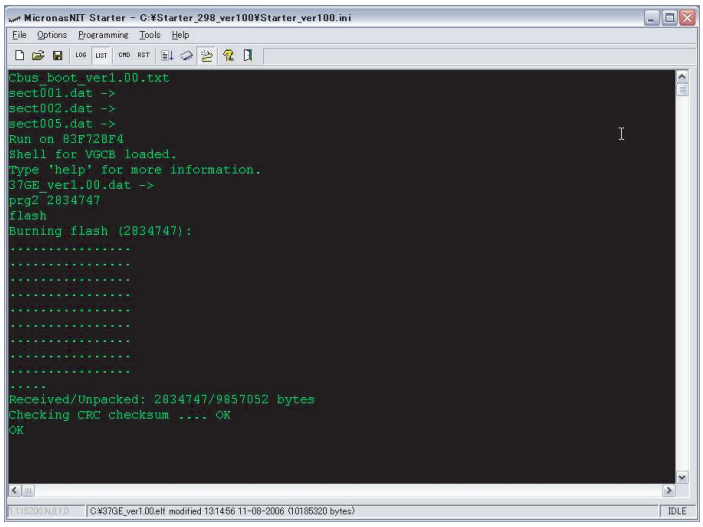
13.Select the file which you want to upload.



14.Click "Flash" button and get executed.



15. If the Flash has burned successfully, "OK" message is shown as below.



16. Turn the AC power off , and turn AC power on.

    Return to default automatically.

17. Finish!!

18. Prepare for next model

    If you have once write the software to the set, the PC side communication speed will be set up to "115200".

    So before you connect the PC to the next set, please change back this speed to "9600".

    (Please refer 4-(i)-2)

19. Software writing time

    It takes about 15 minutes to write the all software with above method.

    Please keep the cable connection during the PC and Set having a communication.

3. Entering and exiting the adjustment process mode

1 Press the "POWER"key on the set of running TV set to force off the power.
2 While holding down the "VOL(-)"and"MENU" keys on the set at once, Press the "POWER"key on the set to turn on the power. The letter [K] appears on the screen.
3 Next, hold down the "VOL(-)"and "P(∨)" keys on the set at once.
Multiple lines of orange characters appearing on the screen indicate that the set is now in the adjustment Process mode. If you fail to enter the adjustment process mode (the display is the same as normal startup), retry the procedure.
4 To exit the adjustment process mode after the adjustment is done, unplug the AC power cord to force off the power. (When the power is turned off with the remote controller, once unplug the AC power cord and plug it in again. In this case, wait 10 seconds or so before plugging.)
5 To remove "K" mode, just repeat step1 and 2. This time the letter "K" disappears from screen.

Caution: Use due care in handling the information described here lest the users should know how to enter the adjustment process mode. If the settings are tampered with in this mode, unrecoverable system damage may result.

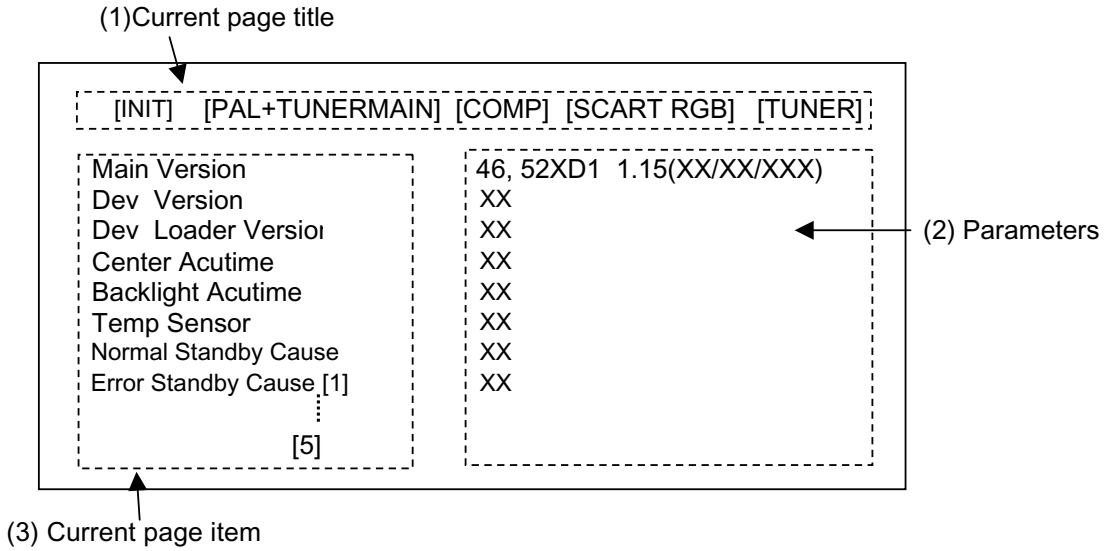
4. Remote controller key operation and description of display in adjustment process mode.

(1)key operation

Remote controller key	Main unit key	Function
P(∧/∨)	P(∧/∨)	Changing a selected line setting (＋10/－10)
VOL(＋/－)	VOL(＋/－)	Turning a page(PREVIOUS/NEXT)
Cursor(UP/DOWN)		Moving an item(line) by one(UP/DOWN)
Cursor(LEFT/RIGHT)		Turning a page(PREVIOUS/NEXT)
		Changing a selected item setting (＋1/－1)
	MENU	Direct control on TV set (Input/Wide Mode/Bright/Contrast)
INPUT SOURCE on remote controller		Input source switching (toggle switching) (TV→EXT1→EXT2→EXT3→EXT4)
RETURN		Returning to a present page
OK		Executing a function

*Input mode is switched automatically when relevant adjustment is started so far as the necessary input signal is available.

Descri ption of dis play



5. Adjustment process mode menu

The character string in brackets [ ] will appear as a page title in the adjustment process menu header.

Page	Line	Item	Description	Remarks (adjustment detail,etc.)
1/13		[INFO]		
	1	Main Version	46/52XD1 ver1.15 2006.0915	Main microprocessor version
	2	Dev Version	ver1.10	DTV version.
	3	Dev Loader Version	2.7	DTV Loader Version
	4	Center Acutime	xxxxH xxM	Main operating hours
	5	Backlight Acutime	xxxxH xxM	Backlight operating hours
	6	Temp Sensor	080	Temp Sensor setting
	7	Normal Standby Cause	1 RC_STANDBY	
	8	Error Standby Cause [1]	1c POWER ERROR 0000H 00M	Error standby cause Total operating time before error
		[2]	1c POWER ERROR 0000H 00M	
		[3]	1c POWER ERROR 0000H 00M	
		[4]	0 0000H 00M	
		[5]	0 0000H 00M	
2/13		[INIT]		
	1	FACTORY INIT	EURO/UK/ITALY/FRANCE/RUSSIA	Initialization to factory settings execution
	2	INCH SETTING	46/52	Inch Setting
	3	PUBLIC MODE	off/on	HOTEL MODE flag setting
	4	Center Acutime Reset	off/on	Main operating hours Reset
	5	Backlight Acutime Reset	off/on	Backlight operating hours Reset
	6	Picture Read Pos X	670	x-axis setting of picture data
	7	Picture Read Pos Y	419	y-axis setting of picture data
	8	Picture Read Signal Type	PAL/COMP/HDMI/RGB	Signal Type Setting
	9	Picture Read	0 - 1023	Start/stop of picture data
3/13		[PAL+TUNERMAIN]		
	1	RF-AGC BG ADJ	ENTER	RF-AGC BG adjustment execution
	2	RF-AGC L ADJ	ENTER	RF-AGC L adjustment execution
	3	PAL+TUNER ADJ	ENTER	PAL TUNER auto adjustment execution
	4	PAL ADJ	ENTER	PAL auto adjustment execution
	5	TUNER ADJ	ENTER	TUNER auto adjustment execution
	6	PAL DAC	29	PAL DAC adjustment
	7	TUNER A DAC	29	Tuner DAC adjustment
	8	Tuner AGC BG	5	Tuner AGC BG adjustment
	9	Tuner AGC L	8	Tuner AGC L adjustment
	10	Tuner AGC int. off	6	Tuner AGC gain adjustment
4/13		[COMP]		
	1	COMP ALL ADJ	ENTER	COMP15K auto adjustment execution
	2	COMP CONTRAST	32	COMP contrast adjustment execution
	3	COMP Cb GAIN	32	COMP Cb gain adjustment execution
	4	COMP Cr GAIN	32	COMP Cr gain adjustment execution
	5	COMP BRIGHT	0	COMP bright adjustment execution
5/13		[SCART RGB]		
	1	SCART RGB CONTRAST	40	SCART RGB contrast adjustment execution
	2	SCART RGB Cb GAIN	40	SCART RGB Cb gain adjustment execution
	3	SCART RGB Cr GAIN	40	SCART RGB Cr gain adjustment execution
	4	SCART RGB BRIGHT	0	SCART RGB bright adjustment execution
6/13		[TUNER]		
	1	TUNER TEST		
7/13		[M GAMMA INFO]		
	1	M GAMMA POS 1	4	W/B adjustment, gradation 1 input setting
	2	M GAMMA POS 2	9	W/B adjustment, gradation 2 input setting
	3	M GAMMA POS 3	14	W/B adjustment, gradation 3 input setting
	4	M GAMMA POS 4	20	W/B adjustment, gradation 4 input setting
	5	M GAMMA POS 5	25	W/B adjustment, gradation 5 input setting
	6	M GAMMA POS 6	29	W/B adjustment, gradation 6 input setting
	7	M GAMMA WRITE	off/on	EEP writing of adjustment values
	8	M GAMMA RESET	off/on	Initialization of adjustment values

8/13		[M GAMMA 1-3]		
	1	M GAMMA R 1	107	W/B adjustment, gradation 1R adjustment value
	2	M GAMMA G 1	107	W/B adjustment, gradation 1G adjustment value
	3	M GAMMA B 1	107	W/B adjustment, gradation 1B adjustment value
	4	M GAMMA R 2	275	W/B adjustment, gradation 2R adjustment value
	5	M GAMMA G 2	275	W/B adjustment, gradation 2G adjustment value
	6	M GAMMA B 2	275	W/B adjustment, gradation 2B adjustment value
	7	M GAMMA R 3	446	W/B adjustment, gradation 3R adjustment value
	8	M GAMMA G 3	446	W/B adjustment, gradation 3G adjustment value
	9	M GAMMA B 3	446	W/B adjustment, gradation 3B adjustment value
	10	M GAMMA WRITE	off/on	EEP writing of adjustment values
9/13		[M GAMMA 4-6]		
	1	M GAMMA R 4	660	W/B adjustment, gradation 4R adjustment value
	2	M GAMMA G 4	660	W/B adjustment, gradation 4G adjustmnet value
	3	M GAMMA B 4	660	W/B adjustment, gradation 4B adjustment value
	4	M GAMMA R 5	835	W/B adjustment, gradation 5R adjustment value
	5	M GAMMA G 5	835	W/B adjustment, gradation 5G adjustmnet value
	6	M GAMMA B 5	835	W/B adjustment, gradation 5B adjustment value
	7	M GAMMA R 6	960	W/B adjustment, gradation 6R adjustment value
	8	M GAMMA G 6	960	W/B adjustment, gradation 6G adjustment value
	9	M GAMMA B 6	960	W/B adjustment, gradation 6B adjustment value
	10	M GAMMA WRITE	off/on	EEP writing of adjustment values
10/13		[ETC]		
	1	EEP CLEAR	off/on	Clear of process adjustment EEP value
	2	EEP CLEAR B	off/on	Clear of process adjustment value of B_mode.
	3	STANDBYCAUSE RESET	off/on	Reset of STANDBY CAUSE
	4	AUTO INSTALLATION SW	0/1	1:* * * 0:* * *
	5	OPTION	0	
	6	COUNTRY	AUTO/EURO/UK	Destination setting
	7	L ERR RESET	0	LAMP ERR RESET Initialization of L_ERR
	8	L ERR STOP	0/1	LAMP ERR Inhibit L_ERR detection.
	9	DTV CLR	off/on	Clear of DTV unit.
	10	I2C-OFF	off/on	STOP of I2C DATA execution
11/13		[LCD]		
	1	OSC FREQ50	1279	INVERTER drive frequency setting
	2	OSC FREQ60	1279	INVERTER drive frequency setting
	3	PWM FREQ50	218	Frequency setting for INVERTER dimmer
	4	PWM FREQ60	218	Frequency setting for INVERTER dimmer
	5	VCOM ADJ	64	COMMON VIAS adjustment setting
	6	QS	off/on	on/off of Quick Shoot Function
	7	CSI	off/on	on/off of Change Shear Impulse
12/13		[LCD TESTPATTERN]		
	1	PATTERN	0	Display LCD test pattern.
13/13		Service B		
	1	[HDTV]	0-10	Contrast,Bright and Color Adjustment of HDTV
	2	[SERVICE B2]	off/on	on/off of Auto Sw Adjustment
	3	[BASE GAMMA 1]	0-1023	Base Gamma Adjustment 1
	4	[BASE GAMMA 2]	0-1023	Base Gamma Adjustment 2
	5	[BASE GAMMA 3]	0-1023	Base Gamma Adjustment 3
	6	[BASE GAMMA 4]	0-1023	Base Gamma Adjustment 4
	7	[BASE GAMMA 5]	0-1023	Base Gamma Adjustment 5
	8	[BASE GAMMA 6]	0-1023	Base Gamma Adjustment 6
	9	[QUICK SHOOT]	0-255	QS Sreshuhorld Level Adjustment

6. Special features

* ERROR STANDBY CAUSE (Page 1/13)

The total time when the unit enters the standby due to operational error and cause of error are recorded on EEPROM as much as possible.

The values can be used to locate the fault for repair.

* EEP CLEAR (Page10/13)

Clear of process adjustment EEP value.

7. Inch Setting

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Factory settings	ends by turning off the MAIN POWER	・Enter the adjustment process mode. ・Move the cursor to [INCH SETTING] on page 2/13. ・Use the R/C◀▶ key to select a inch size from [46/52] and press the [OK] key. ・“EXECUTING” display appears . ・After a while,"OK" display appears, the setting is completed.

8. Video signal adjustment procedure * The adjustment process mode menu is listed in Section 5.

1. Signal check

Signal generator level adjustment check (Adjustment to the specified level)

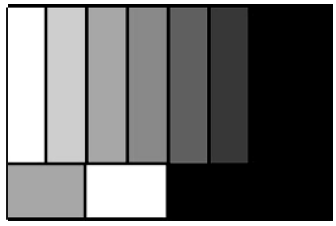
- Composite signal PAL : 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
- 15K component signal : Y level 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)

(50 Hz) PB, PR level 0.7Vp-p ± 0.02Vp-p

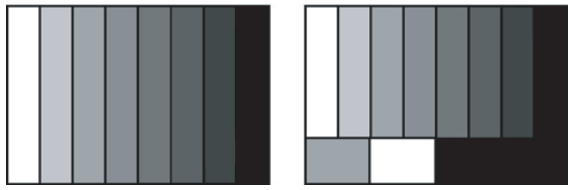
2. Entering the adjustment process mode

Enter the adjustment process mode according to Section 3.

3. RF AGC adjustment 1

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] PAL Sprit Field Colour Bar RF signal UV [Terminal] TUNER	・Feed the PAL Sprit Field colour bar signal (E-12ch) to TUNER. Signal level: 65 dB V ±1dB (75 LOAD) [E-12CH]  ↑ 100% white
2	Auto adjustment performance	Adjustment process [PAL+TUNERMAIN] menu	Bring the cursor on [RF AGC BG ADJ] and press [OK] [RF AGC BG ADJ OK] appears when finished.

4. PAL signal & tuner adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL Full Field Color Bar Composite or RF signal [Terminal] EXT3 VIDEO IN TUNER	・Feed the PAL full field colour bar signal (75% colour saturation) to EXT3 VIDEO IN. ・Feed the RF signal (PAL colour bar) to TUNER. ・Make sure the PAL colour bar pattern (E-12) has the sync level of 7.3 with the picture level. 〔VIDEO IN SIGNAL〕 〔E-12CH〕  ↑ 100% white ↑ 100% white
2	Auto adjustment performance	Adjustment process [PAL+TUNERMAIN] menu	Bring the cursor on [PAL+TUNER ADJ] and press [OK]. [PAL+TUNER ADJ OK] appears when finished.

5. ADC adjustment (Component 15K)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] COMP15K, 50Hz 100% Full Field Colour Bar [Terminal] EXT4 COMPONENT IN	・Feed the COMPONENT 15K 100% full field colour bar signal (100% colour saturation) to EXT4 COMPONENT IN. 100% white → ← Black
2	Auto adjustment performance	Adjustment process [COMP] menu	Bring the cursor on [COMP ALL ADJ] and press [OK]. [COMP ALL ADJ OK] appears when finished.

9. White Balance Adjustment

Adjustment gradation values (IN) appear on page 7/13 of process adjustment, and adjustment initial values(offset value) appear on pages 8/13 and 9/13.

For white balance adjustment, adjust the offset values on pages 8/13 and 9/13.

[Condition of the unit for inspection]

Modulated light: MAX (+8)

[Adjustment reference device]

Minolta CA-210

[Adjustment]

Check that the values on page 7/13 of process adjustment are set as below. If not, change them accordingly.

MGAMMA POS 1	4
MGAMMA POS 2	9
MGAMMA POS 3	14
MGAMMA POS 4	20
MGAMMA POS 5	25
MGAMMA POS 6	29

1. Display the current adjustment status at point 6. (Page 8/13 of process adjustment)

   The display for checking the adjustment status is toggled by pressing the “6” button on the remote control.

   (Normal OSD display → “6” → display for check (OSD disappears) → “6” →normal OSD display → . . .)

2. Read the value of the luminance meter. x=0.272 , y =0.277

3. Change MGAMMA R6/MGAMMA B6 (Adjustment offset value) on page 9/13 of process adjustment so that the values of the luminance meter approach x=0.272 and y =0.277.

   (Basically, G is not changed. If adjustment fails with R and B, change G. When G is lowered, the weaker of R and B must be fixed.)

4. Display the adjustment status of the current point 5. (Each time the “5” button on the remote control is pressed, the adjustment status check display is toggled.)

   (Normal OSD display → “5” → Check display (OSD disappears) → “5” →Normal OSD display → . . .)

   Change M GAMMA R5/M GAMMA B5 (adjustment offset value) on page 9/13 of process adjustment so that the values of the luminance meter approach x = 0.272 and y = 0.277.

5. Repeat step 4) for points 4, 3, 2, and 1.

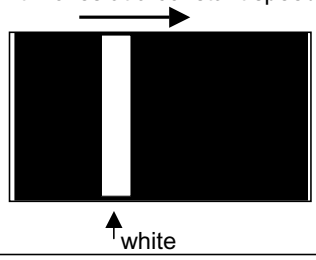
[Adjustment reference standard value]

Adjustment spec ± 0.004 Inspection spec ± 0.006 (point 1)

Adjustment spec ± 0.002 Inspection spec ± 0.004 (Excluding the above-mentioned)

10. Confirmation item

CSI Confirmation (Action Mode Section)

	Confirmation item	Confirmation method
1	Setting	・Input a horizontal scroll signal of the vertical bar into the external input. It moves at a constant speed. 
2	Confirmation	・Confirmed that brightness darkens when the action mode is turned on with the action key to remote control and the afterimage decreases.

11. Initialization to factory settings

Caution: When the factory settings have been made, all user setting data, including the channel settings, are initialized. (The adjustments done in the adjustment process mode are not initialized.) Keep this in mind when initializing these settings.

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Factory settings	ends by turning off the MAIN POWER key. (See to below caution)	[Factory setting with adjustment process mode] ・Enter the adjustment process mode. ・Move the cursor to [Factory Init] on page 2/13. ・Use the R/C◀▶ key to select a region from [EURO/UK/ITALY/FRANCE/RUSSIA]and press the [OK] key. ・“EXECUTING” display appears . ・After a while,"OK" display appears, the setting is completed.
			[Factory setting with R/C key] ・Enter the adjustment process mode. ・Push a remote controller code of each destination. (See below) ・It automatically becomes in the process adjustment menu (INIT) and change FACTORY INIT becomes "EXECUTING" display. ・After a while, "OK" display appears, the setting is completed. destination R/C code 46/52XD1K・・・A8(Hex) 46/52XD1I・・・E8(Hex) 46/52XD1F・・・E9(Hex) 46/52XD1R・・・EB(Hex) 46/52XD1E・・・FE(Hex)
			The following items are initialized in the factory setting. 1. User settings 2. Channel data (e.g. broadcast frequencies) 3. Maker option setting 4. Password data

After adjustments, exit the adjustment process mode.
To exit the adjustment process mode, turn off the MAIN power key.
When the power is turned off with the remoto control, unpulug the AC power cord and plug it back in.

12. Lamp error detection

1. Function

This LCD color TV set incorporates a lamp error detection feature that automatically turns off the power for safety under abnormal lamp or lamp circuit conditions. If by any chance anything is wrong with the lamp or lamp circuit or if the lamp error detection feature is activated for some reason, the following will result.

i) The power is interrupted in about 6 seconds after it is turned on.

(The power LED on the front of the TV set turns red from green and keeps blinking in red: ON for 250 ms and OFF for 1 sec).

ii) If the above phenomenon i) occurs 5 times consecutively, it becomes impossible to turn on the power. (The power LED remained red).

2. Measures

i) Checking with lamp error detection OFF

Enter the adjustment process mode, referring to "3. Entering and exiting the adjustment process mode."

If there is a problem with the lamp or lamp circuit, the lamp will go out. (The power LED is green.)

Then, you can check the operation to see if the lamp and lamp circuit are in trouble.

ii) Resetting the lamp error count

After the lamp and lamp circuit are found out of trouble, reset the lamp error count. If a lamp error is detected five consecutive times, the power cannot be turned on. Using the cursor (UP/DOWN) key, move to the cursor to [L ERR RESET], Line 6 on adjustment process mode service page 10/13. With the cursor (LEFT/RIGHT) keys, select the [L ERR RESET] value. Finally press the cursor (OK) keys to reset the value to "0". Reset to "0 "

Table of contents of adjustment process mode Page 10/13

[ETC]	
EEP CLEAR	off
EEP CLEAR B	off
STANDBYCAUSE RESET	off
AUTO INSTALLATION SW	0
OPTION	0
COUNTRY	EURO
→ L ERR RESET	0 ← Resetting to "0"
L ERR STOP	0
DTV CLR	off
I2C-OFF	off

13. Public Mode

1. How to enter Public mode
   Enter the adjustment process mode, referring to "3.Entering and exiting the adjustment process mode".
   In the[INIT],page2/13 of service, turns on the PUBLIC MODE option.
   Turn off TV by pressing "Power button" of TV unit.
   Press "Power button" of TV unit and then press "V-" of RC and "V-" of TV at the same time during the switch-on action
   (before the screen is displayed)

   Note:
   Language: English only

Options	"Monitor", "Basic", Hotel", "Full"
Default	"Full"

Chart of available parameters in each mode

	Monitor	Basic	Hotel	Full
Power on fixed	x	-	-	-
Maximum volume	x	x	x	-
Volume fixed	x	-	-	-
Fixed volume level	x	-	-	-
Input mode start	x	x	x	-
Input fixed	x	-	-	-
Start-up preset	x	x	x	-
Reset	x	x	x	-

In possible to select each item of function by press cursor UP/DOWN keys on remote control.
The setting position of each item of function is made by press cursor RIGHT/LEFT keys on remote control.
Press OK key on remote control for confirmation after you set all functions.

2. Valid/Invalid function table

	In ATV mode			In DTV mode			
(R/C)KEY_CODE	MONITOR	BASIC	HOTEL	MONITOR	BASIC	HOTEL	
Power	※1	x	x	※1	x	x	
TELETEXT	-	-	x	-	-	x	
1-9,0	-	-	x	-	-	x	
FLASH_BACK	-	-	x	-	-	x	
Input select	※2	x	x	※2	x	x	
DTV	-	-	x	※2	x	x	
EPG,ESG	-	-	-	-	-	-	
RADIO	-	-	-	※2	x	x	
SOUND(MPX)	-	-	x	x	x	x	
mute	-	-	x	-	-	x	
V+,V-	※3	x	x	※3	x	x	
P+,P-	※2	x	x	※2	x	x	
AV mode	-	-	x	-	-	x	Standard setting called
Surround	-	-	-	-	-	-	
LIST	-	-	-	-	-	x	
i+	-	-	x	-	-	x	
DTV menu	-	-	-	-	-	-	
Menu	-	-	-	-	-	-	
OK(Station/Program List)	-	-	x	-	-	x	
truD	-	-	-	-	-	-	
SLEEP	-	-	x	-	-	x	
Wide mode	-	-	x	-	-	x	
OPC	-	-	-	-	-	-	

(TV unit)KEY_CODE	MONITOR	BASIC	HOTEL	MONITOR	BASIC	HOTEL	
Menu	※2	x	x	※2	x	x	To select input only
P+,P-	※2	x	x	x	x	x	
V+,V-	※3	x	x	※3	x	x	

※1:The key is avallable in a case that "Power on fixed" is set to "no".
※2:The key is avallable in a case that "Input fixed" is set to "no".
※3:The key is avallable in a case that "Volume fixed" is set to "no".

Full mode : Normal operation, no restrictions

3. Parameter setting

(1) POWER ON FIXED

Options	"yes", "no"
Default	"no"

(2) MAXIMUM VOLUME

Options	0 --- 63
Default	63

(3) VOLUME FIXED

Options	"yes", "no"
Default	"no"

(4) VOLUME FIXED LEVEL

Options	0 --- Maximum volume
Default	20

(5) INPUT MODE START

Options	"normal", "TV","DTV", "EXT1", "EXT2", "EXT3", "EXT4", "EXT5", "EXT6"
Default	"normal"

(6) INPUT MODE FIXED

Options	"yes", "no"
Default	"no"

(7) START-UP PRESET

Options	0 --- maximum preset channel
Default	0001

(8) RESET

Options	"execute", "no"
Default	"no"

CHAPTER 6. TROUBLE SHOOTING TABLE

[1] TROUBLE SHOOTING TABLE

Power switched on but no power supplied.

Are the power cord and internal harnesses correctly connected?
- NO → Reconnect the cables correctly and switch on the power again.
- YES ↓

Does F701 function?
- NO → Replace F701 and switch on the power again. Does the fuse blow out?
- YES ↓

Is there a voltage of about 5V at the BUS5V output [between pins (20)(+) and (22)(-) of PA]?
- NO ↓

Is the voltage at C790 higher than 8V?
- NO → Replace R790, D742, IC702, R780 and R781.
- YES ↓

Replace Q705, D715, IC701, R726 and R721.

- YES ↓

Are there voltages of about 13V, 24V and 35V at the UR13V, S29V and UR35V outputs, respectively?
- NO → Check D708, Q727, Q726, R830, R829, D762, D763, Q741, R824, R825, IC704, R826, R827 and R828.
- YES ↓

Is the relay activated clicking?
- NO → Check Q706, Q741, D707, D729 and R776.
- YES ↓

Is there a voltage of about 12V at UR12V [between pins (1)(+) and (3)(-) of PL]?
- NO → Check Q731, Q742, Q732, D767, D766, R843, R844 and C799.
- YES ↓

Is there a voltage of about 380V at C726?
- NO → Check Q705, D715, IC701, R726 and R721.
- YES ↓

Is there a voltage of about 60V at the INV60V output [between pins (1)(+) and (3)(-) of LA]?
- NO → Check Z1, Q707, Q708, Q716 and L706.
- YES ↓

Is there a voltage of about 10V at the INV10V output [between pins (5)(+) and (3)(-) of LA]?
- NO → Check IC705, R832, R833, R834 and C813.

No sound (1) (during the reception of TV broadcasting)

No audio output during UHF/VHF reception

Checklist:
1) Is the volume set to MIN or MUTE on the remote control ? ... Set the desired volume.
2) Are headphones connected to HEADPHONE (J1301) ? ... Disconnect them.
3) Is ANT-CABLE disconnected or connected improperly ? ... Connect it correctly as per the operation manual.

Is the audio signal (L/R) sent from pins (28) and (27) of IC3701 (MSP)?

NO → Is the SIF signal (ANA_IN1+) sent to pin (67) of IC3701(MSP)?

YES → Check whether +5V and +8V are supplied to pins (12) and (39) of IC3701 respectively. Or,check peripheral circuits.

(AV-UNIT) YES

Is the audio signal of pins (3) and (5) of IC303 (OP-AMP) sent properly?

NO → Check SC2704 and P1201 or peripheral circuits. Is the S-MUTE signal “L” ?

YES

Is the audio signal of pin (4) Of IC301/IC302 (AUDIO-AMP) sent properly?

NO → Check HEAD-PHONE (J1301) or peripheral circuits.

YES

Is the audio signal output of pins (2) and (4) of P301 (AUDIO-CONNECTOR) normal ?

NO → Check P301 (AUDIO- CONNECTOR) and peripheral circuits.

YES

Check SP-BOX (right and left) and wire harness.

NO

Is the SIF signal (ANA_IN1+) sent to pin (67) of IC3701(MSP)?

YES → Check whether +5V and +8V are supplied to pins (12) and (39) of IC3701 respectively. Or,check peripheral circuits.

NO

Is the audio signal (SIF) sent from pin (1) of CONNECTOR (SC2705)?

YES → Check pin (67) of IC3701 (MSP) and peripheral circuits.

(TUNER) NO

Is the audio signal (SIF) sent from Q210 (Buffer)?

YES → Check CONNECTOR(P201) and peripheral circuits.

NO

Is the SIF signal sent to Q203 (AMP)?

YES → Confirm whether +8V is supplied to Q203. Or, please check the peripheral circuit.

NO

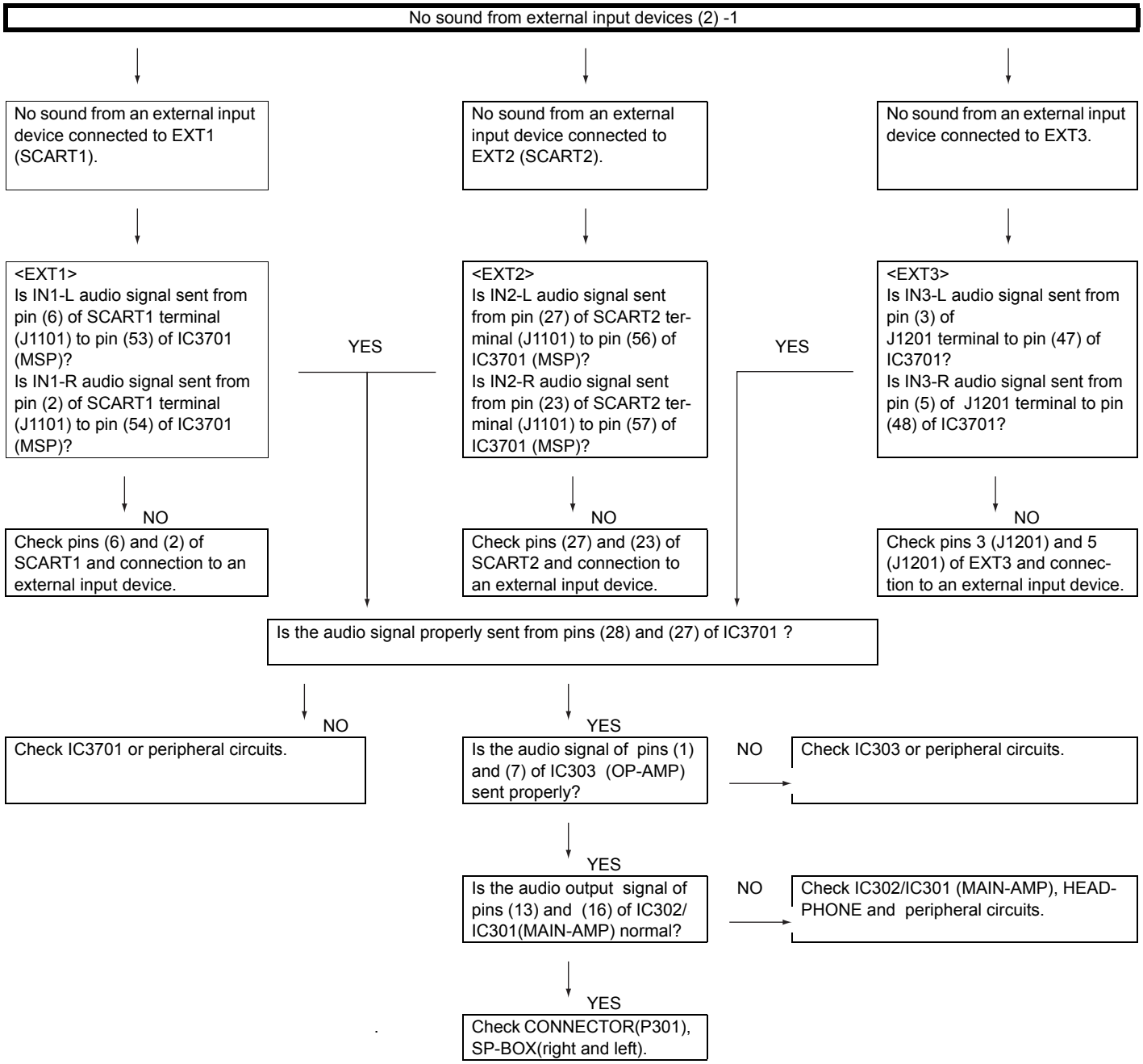
Is the SIF signal sent from pin (13) of TUNER (TU201)?

YES → Check soldering the terminal and peripheral circuits.

NO

Check whether 5V (ANT) and 5V are supplied to pins (4) and (10) of TUNER (TU201) respectively. Check SDA/SCL and AGC signal.

YES → Replace TUNER (TU201).


No sound from external input devices (2) -1
No sound from an external input device connected to EXT1 (SCART1).
No sound from an external input device connected to EXT2 (SCART2).
No sound from an external input device connected to EXT3.
<EXT1>
Is IN1-L audio signal sent from pin (6) of SCART1 terminal (J1101) to pin (53) of IC3701 (MSP)?
Is IN1-R audio signal sent from pin (2) of SCART1 terminal (J1101) to pin (54) of IC3701 (MSP)?
<EXT2>
Is IN2-L audio signal sent from pin (27) of SCART2 terminal (J1101) to pin (56) of IC3701 (MSP)?
Is IN2-R audio signal sent from pin (23) of SCART2 terminal (J1101) to pin (57) of IC3701 (MSP)?
<EXT3>
Is IN3-L audio signal sent from pin (3) of
J1201 terminal to pin (47) of IC3701?
Is IN3-R audio signal sent from pin (5) of J1201 terminal to pin (48) of IC3701?
YES
YES
NO
NO
NO
Check pins (6) and (2) of SCART1 and connection to an external input device.
Check pins (27) and (23) of SCART2 and connection to an external input device.
Check pins 3 (J1201) and 5 (J1201) of EXT3 and connection to an external input device.
Is the audio signal properly sent from pins (28) and (27) of IC3701 ?
NO
YES
Check IC3701 or peripheral circuits.
Is the audio signal of pins (1) and (7) of IC303 (OP-AMP) sent properly?
NO
Check IC303 or peripheral circuits.
YES
Is the audio output signal of pins (13) and (16) of IC302/ IC301(MAIN-AMP) normal?
NO
Check IC302/IC301 (MAIN-AMP), HEADPHONE and peripheral circuits.
YES
Check CONNECTOR(P301), SP-BOX(right and left).

No sound from external input devices (2) -2

No sound from EXT4 (AUDIO) connecting an external input device.

<EXT4>
Is D-SUB-L audio signal sent from J2702 to pin (15) of IC2704?
Is D-SUB-R audio signal sent from J2702 to pin (2) of IC2704?

YES

Is D-SUB-L audio signal sent to pin (50) of IC3701?
Is D-SUB-R audio signal sent to pin (51) of IC3701?

YES

No sound from EXT5 (AUDIO) connecting an external input device.

<EXT5>
Is HDMI-L audio signal sent from J2701 to pin (14) of IC2704?
Is HDMI-R audio signal sent from J2701 to pin (5) of IC2704?

YES

Is HDMI-L audio signal sent to pin (50) of IC3701?
Is HDMI-R audio signal sent to pin (51) of IC3701?

NO → Check output of pins (13) and (3) of IC2704 and peripheral circuits.

YES

Is the audio signal properly sent from pins (28) and (27) of IC3701 ?

NO → Check IC3701 or peripheral circuits.

YES

Is the audio signal of pins (1) and (7) of IC303 (OP-AMP) sent properly?

NO → Check IC303 or peripheral circuits.

YES

Is the audio output signal of pins (13) and (16) of IC302/ IC301(MAIN-AMP) normal?

NO → Check IC302/IC301 (MAIN-AMP), HEADPHONE and peripheral circuits.

YES

Check CONNECTOR(P301), SP_substrate(D790WJ/ D791WJ) and SP-BOX(right and left).

No sound except from speakers (3) -1

No audio output from the headphones.

Is there audio output on pins (2) and (3) of the headphone terminal (J1301)?

NO

Is audio input/output signal of pins (3) and (5)/(1) and (7) of IC303 (OP-AMP) normal?

NO

Is audio output signal (SPK-OUT L/R) properly sent from pins (28) and (27) of IC3701 (MSP)?

NO

Check audio input signal of pin (67) of IC3701(MSP), pins (39) and (12) of the power line5 and 8V, pins (3) and (2) of I2C-LINE, and peripheral circuits.

No audio output from EXT1 (SCART) terminal.

Checklist:
1) Is the MUTE button on the remote control set to ON? ... Set to OFF.
2) Check the connection to external devices....Is there any improper connection?

Is audio signal sent to pins (3) and (1) of EXT1 (J1101)?

NO

Is S-MUTE-LINE [IC1710 (pin 92)] at H? (Check Q1106/Q1105 operation.)

NO

Is audio signal sent from pins (33) and (34) of IC3701?

NO

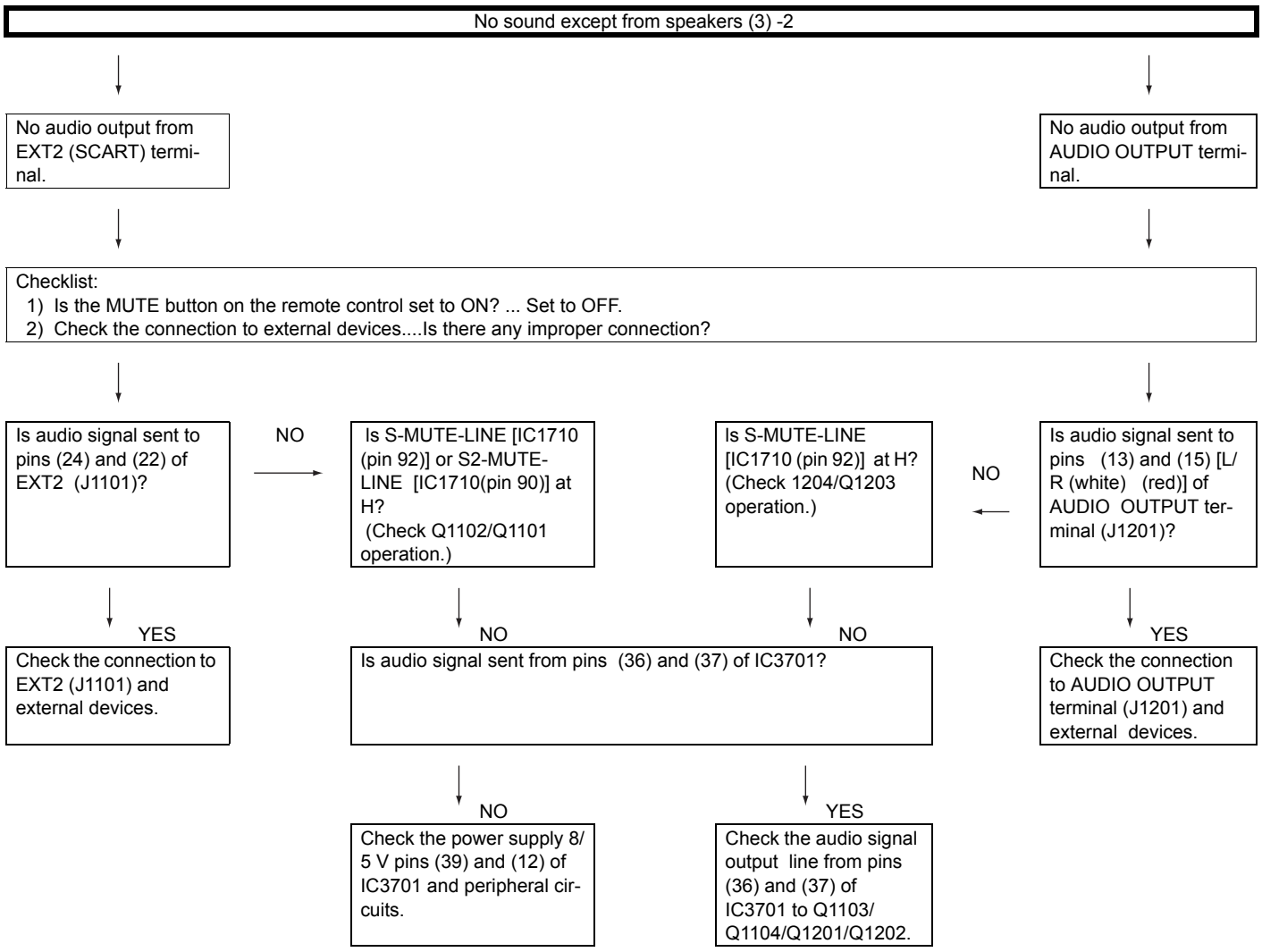
Check the power supply 8/5 V pins (39) and (12) of IC3701 and peripheral circuits.

YES

Check the audio signal output line from pins (33) and (34) of IC3701 to pins (3) and (1) of EXT1.

YES

Check the connection to EXT1 (J1101) and external devices.


No sound except from speakers (3) -2
No audio output from EXT2 (SCART) terminal.
No audio output from AUDIO OUTPUT terminal.
Checklist:
1) Is the MUTE button on the remote control set to ON? ... Set to OFF.
2) Check the connection to external devices....Is there any improper connection?
Is audio signal sent to pins (24) and (22) of EXT2 (J1101)?
NO
Is S-MUTE-LINE [IC1710 (pin 92)] or S2-MUTE-LINE [IC1710(pin 90)] at H? (Check Q1102/Q1101 operation.)
Is S-MUTE-LINE [IC1710 (pin 92)] at H? (Check 1204/Q1203 operation.)
NO
Is audio signal sent to pins (13) and (15) [L/R (white) (red)] of AUDIO OUTPUT terminal (J1201)?
YES
Check the connection to EXT2 (J1101) and external devices.
NO
NO
Is audio signal sent from pins (36) and (37) of IC3701?
YES
Check the connection to AUDIO OUTPUT terminal (J1201) and external devices.
NO
Check the power supply 8/5 V pins (39) and (12) of IC3701 and peripheral circuits.
YES
Check the audio signal output line from pins (36) and (37) of IC3701 to Q1103/Q1104/Q1201/Q1202.

DTV troubleshooting 1

The unit does not enter the DTV mode. Or, the DTV menu does not appear.

YES → Go to "The unit does not enter the DTV mode. Or, the DTV menu does not appear."

NO

No video output during DTV reception.

YES → Go to "No video output during DTV reception."

NO

No audio output during DTV reception.

YES → Go to "No audio output during DTV reception."

The unit does not enter the DTV mode. Or, the DTV menu does not appear.

Digital UNIT:
Is a voltage supplied from IC4701(3.3V-REG)/IC4704(1.8V-REG)?

NO → Check peripheral circuits of IC4701/IC4704 and pin(7) of IC4701.

YES

Do X4001/X4002 oscillate?

NO → Check peripheral circuits of X4001/X4002.

YES

D-TUNER UNIT:
Is a voltage of 1.8/3.3V supplied from IC205(REG) and IC206(REG)?

NO → Check peripheral circuits of IC205/IC206.

YES

Is a voltage applied to pin(20) (I2CSEL) of P202?
(High=3.3V)

NO → MAIN UNIT:
Check around the pin (85) of IC1710(FPGA).

YES

Is FESDA/FESCL signal sent to pins (21) and (22) of P202 and pins (21) and (20) of IC202 (COFDM).

NO → Check peripheral circuits of IC202(COFDM)/ IC4001(D-Processor).

YES

Does X-TAL X202 of IC202 oscillate?

NO → Check peripheral circuits of X202.

YES

Check IC202(COFDM)/ IC4001(D-Processor).

DTV troubleshooting 2

No video output during DTV reception. Colors of Images are not right.

- D-TUNER UNIT: Is data FED[0:7] sent from pins (3),(4),(5),(6),(8),(9), (10) and (11) of P202?
  - NO → Check R272 and R273.
  - YES ↓
- DIGITAL UNIT: Are video signals (R/G/B,CVBS) sent from C4639/C4640/C4641/C4625?
  - NO → Check R4011(AC8pin),R4013(AC9pin) and IC4001(D-Processor).
  - YES ↓
- Are video signals (R/G/B,CVBS) send from the C4636/C4637/C4638 and emitters of Q4607?
  - NO → Check Q4601-Q4605,Q4607 and their peripheral circuits.
  - YES ↓
- MAIN UNIT: Are video signals (R/G/B,CVBS) fed from pins (AA18),(AB18),(Y18) and (AA21) of IC3002?
  - YES ↓
- Are scrambled images not displyed?
  - YES → DIGITAL UNIT: Check 5V output of pin (1) of IC4702. Check 5V of pin (6) of Q4401.
  - YES ↓
- Perform the same check as the tuner (U/V) reception.

No audio output during DTV reception. Sound is low.

- DIGITAL UNIT: Is audio signal fed to pins (5) and (10) of IC4604 (OP-AMP)?
  - NO → Check R4002(AD2pin) and IC4001(D-Processor).
  - YES ↓
- Is audio signal sent from pins (7) and (8) of IC4604(OP-AMP)?
  - NO → Check power supply of IC4604(OP-AMP) and its peripheral circuits.
  - YES ↓
- MAIN UNIT: Is audio signal sent to pin (3) and (13) of IC2704 (SW)?
  - NO → Check power supply and control signal of pins (9) and (10) of IC2704(SW) and audio signal input of pins (4) and (11) of IC2704.
  - YES ↓
- Perform the same check as the tuner (U/V) reception.

<0n input of the tuner (U/V)> **No picture on the display (1)**

No picture appears on LCD during the tuner (U/V) reception.

Checklist:

1) Is "INPUT SOURCE" button ⊣▶ on the remote control set up correctly ? ... See the operation manual and set "INPUT SOURCE" to "TV".
2) Is MENU-Picture-Contrast/Brightness set to "MIN" ? ... Set it to an appropriate level.
3) Is ANT-CABLE disconnected or connected improperly? ...Connect it correctly as per the operation manual.

YES

Is level of pins (9) and (8) of tuner (TU201) and pins (12) and (2) of IC204 (MULTI) at H?

NO → These are communications lines for control (I2C). Follow the path and check whether they are forced to L(PULL_DOWN).

YES

Is the video signal (IF) sent from pin (11) of tuner (TU201)?

NO → Check the tuner (TU201) and peripheral circuits.

YES

Is the video signal CVBS sent to pin (AC23) of IC3002 (V-PRO.)?

NO → Check CONNECTOR (P201 /SC2705) and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) -(AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) -(V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

<Durlng external connectlon> No picture on the monitor (2) -1

SCART1:
No picture appears on EXT1 -connected monitor during the tuner (U/V) reception.

SCART2:
No picture from EXT1 appears on EXT2-connected montor.
Note: Normally, if the screen during display is sent to EXT2, no picture is sent to EXT2.

Checklist:

1) Are input terminal on back of TV and "INPUT SOURCE"button on the remote control set up correctly ? ... See the operation manual and set "INPUT SOURCE "appropriately.
2) Is the Signal Type (item) in MENU-Connection-Input-Select set to the same as that of the external device ? ... Set it to "CVBS", "Y/C" or "RGB".
3) Is ANT-CABLE disconnected or connected improperly? ... Connect it correctly as per the operation manual.
4) The picture is sent to the monitor in a CVBS signal if the source during display is TV , CVBS or Y/C of EXT1-3. When sent by component, etc., that signal is not sent to the monitor.
5) When the monitor picture is not sent and is not displayed on the monitor, refer to “No picture” for each terminal.
6) The video output from EXT1 is not the monitor output (output of the picture now watching). The picture of the last selected TV channel is always sent to EXT1. (Specification).

Is video signal sent to pin (19) of SCART1 (J1101)?	YES	Check SCART1 , external connection or input setting.	Is video signal sent to pin (40) of SCART2 (J1101)?	YES	Check SCART2, external connection or input setting.
NO			NO		
Is video signal (V-OUT1) sent from pin (2) of IC1102 (SW)?	YES	Check SCART1 (J1101) and peripheral circuits.	Is video signal (V-OUT2) sent from pin (2) of IC1101 (SW)?	YES	Check SCART2 (J1101) and peripheral circuits.
NO			NO		
Is video signal (V-OUT1) sent from pin (Y23) of IC3002 (V-PRO.)?	YES	Check IC1102(SW),Connector (P1101,SC2702) and peripheral circuits.	Is video signal (V-OUT2) sent from pin (Y20) of IC3002 (V-PRO.)?	YES	Check IC1101(SW), Connector (P1102,SC2703) and peripheral circuits.
NO			NO		
Is video signal (CVBS) sent to pin (AC23) of IC3002 (V-PRO.)?	YES	Check power supply of IC3002 (V-PRO.) and peripheral circuits.	Is video signal (VIN1) from EXT1 sent to pin (AB22) of IC3002 (V-PRO.)?	YES	Check power supply of IC3002 (V-PRO.) and peripheral circuits.
NO			NO		
Is video signal (IF) sent from pin (11) of tuner (TU201)?	YES	Check CONNECTOR(P201,SC2705) and peripheral circuits.	Check whether video signal is sent to pin (20) of SCART1.	YES	Check SCART1 , CONNECTOR (SC2702, P1101) and peripheral circuits.
NO			NO		
Check 5/33 V power supply pins (10) and (7), I2C line pins (9) and (8) of tuner (TU201) and peripheral circuits.			Check SCART1 , external connection or input setting.		

<Durlng external connectlon> No picture on the monitor (2) -2

SCART2:
No picture from EXT3 appears on EXT2- connected monitor.

Checklist:

1) Are input terminal on back of TV and "INPUT SOURCE"button on the remote control set up correctly ? ... See the operation manual and set "INPUT SOURCE "appropriately.
2) Is the Signal Type (item) in MENU-Connection-Input-Select set to the same as that of the external device ? ... Set it to "CVBS", "Y/C" or "RGB".
3) Is ANT-CABLE disconnected or connected improperly? ... Connect it correctly as per the operation manual.
4) The picture is sent to the monitor in a CVBS signal if the source during display is TV , CVBS or Y/C of EXT1-3. When sent by component, etc., that signal is not sent to the monitor.
5) When the monitor picture is not sent and is not displayed on the monitor, refer to “No picture” for each terminal.
6) The video output from EXT1 is not the monitor output (output of the picture now watching). The picture of the last selected TV channel is always sent to EXT1. (Specification).

Is video signal sent to pin (40) of SCART2 (J1101)? — YES → Check SCART2, external connection or input setting.

NO

Is video signal (V- OUT2) sent from pin (2) of IC1101 (SW)? — YES → Check SCART2 (J1101) and peripheral circuits.

NO

Is video signal (V- OUT2) sent from pin (Y20) of IC3002 (V-PRO.) ? — YES → Check IC1101(SW), Connector (P1102,SC2703) and peripheral circuits.

NO

Is video signal (IN3Y) from EXT3 sent to pin (AB20) of IC3002 (V-PRO.)? — YES → Check power supply of IC3002 (V-PRO.) and peripheral circuits.

NO

Is video signal (IN3YV) sent to pin (2) of IC1201 (SW)? — YES → Check pin (AB20) of IC3002 (V-PRO.), CONNECTOR (SC2703, P1102) and peripheral circuits.

NO

Is video signal (CVBS) sent from pin(1) of A/V-TERMINAL (J1201=EXT3)? — YES → Check pin (1) (IN3SW) of IC1201(SW), power supply and peripheral circuits.

NO

Check A/V-TERMINAL (J1201), external connection or input setting.

<When EXT1 is used for external input> No picture on the display (3)-1

No EXT1 -Composite output of the external input system.

No EXT1-RGB output of the external input system.

Checklist:

1) Is "INPUT SOURCE" button on the remote control set up correctly? ...See the operation manual and set "INPUT SOURCE" to "EXIT".
2) Is MENU-Picture-Backlight/Contrast/Brightness set to "MIN"? ...Set it to an appropriate level.
3) Check the connection to the external device ...Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (20) of SCART1 (J1101)?

NO → Check external connection, input setting, SCART1 and peripheral circuits.

YES

Is composite video signal (VIN1(V)) sent to input terminal pin (AB22) of IC3002 (V-PRO.) ?

NO → Check CONNECTOR (SC2702/P1101),SCART1(J1101) and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

Is RGB signal sent to pins (15),(11) and (7) of SCART1 (J1101) ?

NO → Check external connection, input setting, SCART1 (J1101) and peripheral circuits.

YES

Is RGB signal (RED1/GREEN1/BLUE1) sent to input terminal pins (Y19)(AB19) and (AC18) of IC3002 (V-PRO.) ?

NO → Check CONNECTOR (SC2702/P1101),SCART1 (J1101) and peripheral circuits.

YES

<When EXT1 is used for external input> No picture on the display (3)-2

No EXT1-Y/C output of the external input system.

Checklist:

1) Is "INPUT SOURCE" button on the remote control set up correctly? ...See the operation manual and set "INPUT SOURCE" to "EXIT".
2) Is MENU-Picture-Backlight/Contrast/Brightness set to "MIN"? ...Set it to an appropriate level.
3) Check the connection to the external device ...Connect it correctly as per the operation manual for the device.

Is Y/C signal sent to pins (20) and (15) of SCART1 (J1101) ?

NO → Check external connection, input setting, SCART1 (J1101) and peripheral circuits.

YES

Is Y/C signal (Y1/C1) sent to input terminal pins (AB22) and (Y19) of IC3002 (V-PRO.) ?

NO → Check CONNECTOR (SC2702/P1101), SCART1 (J1101) and peripheral circuits..

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

<When EXT2 is used for external input>

No EXT2-Composite output of the external input system.

Checklist:

1) Is "INPUT SOURCE" button on the remote control set up correctly ? ... See the operation manual and set "INPUT SOURCE" to "EXT2".
2) Is MENU-Picture-Backlight/Contrast/Brightness set to "MIN"? ...Set it to an appropriate level.
3) Check the connection to the external device ... Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (41) of SCART2 (J1101) ?

NO → Check external connection, input setting, SCART2 (J1101) and peripheral circuits.

YES

Is composite video signal (VIN2(V)) sent to input terminal pin (AB2) of IC3002 (V-PRO.) ?

NO → Check CONNECTOR (SC2703/P1102) ,SCART2 (J1101) and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

No picture on the display (4)

No EXT2-Y/C output of the external input system.

Checklist:

1) Is "INPUT SOURCE" button on the remote control set up correctly ? ... See the operation manual and set "INPUT SOURCE" to "EXT2".
2) Is MENU-Picture-Backlight/Contrast/Brightness set to "MIN"? ...Set it to an appropriate level.
3) Check the connection to the external device ... Connect it correctly as per the operation manual for the device.

Is Y/C signal sent to pins (41) and (36) of SCART2 (J1101) ?

NO → Check external connection, input setting, SCART2 (J1101) and peripheral circuits.

YES

Is Y/C signal (VIN2 =Y2/C2) sent to input terminal pins (AB2) and (AC21) of IC3002 (V-PRO) ?

NO → Check CONNECTOR (SC2702/P1101), SCART2 (J1101) and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

<When EXT3 is used for external input>

No EXT3 output of the external input system.

Checklist;

1) Is"INPUT SOURCE" button on the remote control set up correctly? ...E See the operation manual and set "INPUT SOURCE" to "EXT3".
2) Is MENU-Picture-Backlight/Contrast/Brightness set to "MIN" ? ... Set it to an appropriate level.
3) Check the connection to the external device ... Connect it correctly as per the operation manual for the device.

Is composite video signal sent to pin (1) of A/V-IN-TERMINAL (J1201) ?

NO → Check external connection, input setting, A/V-IN-TERMINAL (J1201) and peripheral circuits.

YES

Is composite video signal (IN3- CVBS) sent to input terminal pin (4) of IC1201 (SW) ?

NO → Check A/V-I N-TERMINAL (J1201) and peripheral circuits.

YES

Is composite video signal (IN3(V)) sent to input terminal pin (AB20) of IC3002 (V-PRO) ?

NO → Check CONNECTOR (SC2703/P1102), IC3002 (V-PRO.) and peripheral circuits.

YES

Is LVDS video signal (TA1± -TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

No picture on the display (5)

No EXT3-Y/C output of the external input system.

Checklist;

1) Is"INPUT SOURCE" button on the remote control set up correctly? ...E See the operation manual and set "INPUT SOURCE" to "EXT3".
2) Is MENU-Picture-Backlight/Contrast/Brightness set to "MIN" ? ... Set it to an appropriate level.
3) Check the connection to the external device ... Connect it correctly as per the operation manual for the device.

Is Y/C signal sent to pins (ll) and (7) of S-TERMINAL (J1201) ?

NO → Check external connection, input setting, S-TERMINAL (J1201) and peripheral circuits

YES

Is Y3 signal (IN3-Y) sent to Input terminal pin (6) of IC1201 (SW) ?

NO → Check S-TERMINAL (J1201) and peripheral circuits.

YES

Is Y/C signal (IN3Y/IN3C) sent to input terminal pins (AB20) and (AC20) of IC3002 (V-PRO.) ?

NO → Check CONNECTOR (SC2703/P1102), IC3002 (V-PRO.) and peripheral circuits.

YES

Is LVDS video signal (TA1± -TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

<When EXT4 is used for external input> No picture on the display (6)

No EXT4 (15pin-D-SUB terminal) output of the external input system.

Checklist:

1) Is "INPUT SOURCE" button on the remote control set up correctly ? ... See the operation manual and set "INPUT SOURCE" to "EXT4".
2) Connect the included D-SUB-Adapter-Cable to the COMPONENT terminal of an external device. ...See the operation manual (use a commercially available Component-Cable to connect to the external device).
3) Is ANT-CABLE disconnected or connected improperly ? ... Connect it correctly as per the operation manual

Is "EXT4" selected with button on the remote control

NO → Select "EXT4" with button on the remote control.

YES

Is D-SUB-COMPONENT signal (APC_R/G/B) sent to pins (1),(2) and (3) of EXT4-TERMINAL (SC2303) ?

NO → Check D-SUB-adaptor and external connection.

YES

Is D-SUB-COMPONENT signal (APC-R/G/B) sent to pins (AA17),(AB17) and (Y17) of IC3002 (V-PRO.) ?

NO → Check EXT4-TERMINAL and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)?

NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV)..

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

<When EXT5 is used for external input> No picture on the display (7)

No EXT5 (HDMI) output of the external input system.

Checklist:

1) Is "INPUT SOURCE" button on tne remote control set up correctly? ... See the operation manual and set "INPUT SOURCE" to "EXT5".
2) Have you checked the type video signal sent from HDMI-connected external device? ...Confirm the type (it should "RGB", "YCbCr 4:4:4" or "YCbCr 4:2:2").
3) Have you checked the type of Color matrix sent from HDMI-connected external device? ... Confirm the type (it should be "ITU601" or "ITU709".)
4) Is ANT-CABLE disconnected or connected improperly? ... Connect it correctly as per the operation manuall

Is "EXT5" selected with button on the remote control? — NO → Select "EXT5" with button on the remote control.

YES

Is the type of video signal (Signal Type) from HDMI- connected extennal device set? — NO → From MENU-Connections-HDMI setup-EXT5-Signal type, select a signal type ("RGB", "YCbCr 4:4:4" or "YCbCr 4:2:2")

YES

Is the type of color signal (Color matrix) from HDMI -connected external device set? — NO → From MENU-Connections-HDMI setup-EXT5-Color Matrix, select a color signal type ("ITU601" or "ITU709")

YES

Is TMDS signal (RX*±signal) sent to pins (1) - (12) of EXT5 (HDMI) termina (SC1901)? — NO → Is I2C signal (SDA/SCL signal)sent to pins (16) and (15) of EXT5 (HDMI) terminal? Check external connection and peripheral circuits.

YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent from pins (110)-(144) of IC1905 (HDMI-RECEIVER)? — NO → Check power supply (3.3/1.8V) pins (99) and (74) of IC1905, SDA/SCL signal pins (29) and (30), and peripheral circuits.

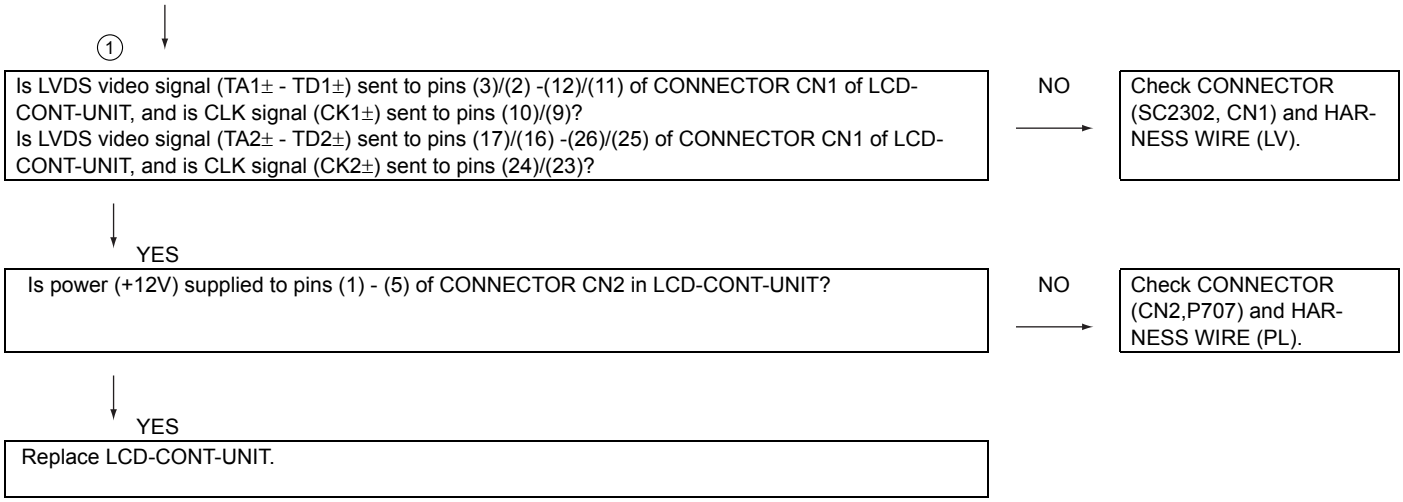
YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent to pins (B10) - (D15) of IC3002 (V-PRO.)? — NO → Check SDA3/SCL3 signal pins (27) and (28), interface between IC1905 and IC3002, and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)? — NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

① YES


①
Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?
NO
Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).
YES
Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?
NO
Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).
YES
Replace LCD-CONT-UNIT.

<When EXT6 is used for external input> No picture on the display (8)

No EXT6 (HDMI) output of the external input system.

Checklist:

1) Is "INPUT SOURCE" button on tne remote control set up correctly? ... See the operation manual and set "INPUT SOURCE" to "EXT6".
2) Have you checked the type video signal sent from HDMI-connected external device? ...Confirm the type (it should "RGB", "YCbCr 4:4:4" or "YCbCr 4:2:2").
3) Have you checked the type of Color matrix sent from HDMI-connected external device? ... Confirm the type (it should be "ITU601" or "ITU709".)
4) Is ANT-CABLE disconnected or connected improperly? ... Connect it correctly as per the operation manuall

Is "EXT6" selected with button on the remote control? — NO → Select "EXT6" with button on the remote control.

YES

Is the type of video signal (Signal Type) from HDMI- connected extennal device set? — NO → From MENU-Connections-HDMI setup-EXT6-Signal type, select a signal type ("RGB", "YCbCr 4:4:4" or "YCbCr 4:2:2")

YES

Is the type of color signal (Color matrix) from HDMI -connected external device set? — NO → From MENU-Connections-HDMI setup-EXT6-Color Matrix, select a color signal type ("ITU601" or "ITU709")

YES

Is TMDS signal (RX*±signal) sent to pins (1) - (12) of EXT6 (HDMI) termina (SC1901)? — NO → Is I2C signal (SDA/SCL signal)sent to pins (16) and (15) of EXT6 (HDMI) terminal? Check external connection and peripheral circuits.

YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent from pins (110)-(144) of IC1905 (HDMI-RECEIVER)? — NO → Check power supply (3.3/1.8V) pins (99) and (74) of IC1905, SDA/SCL signal pins (29) and (30), and peripheral circuits.

YES

Is 8bit-DIGITAL signal (HDMI- R/G/B) sent to pins (B10) - (D15) of IC3002 (V-PRO.)? — NO → Check SDA3/SCL3 signal pins (27) and (28), interface between IC1905 and IC3002, and peripheral circuits.

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (AB8)/(AC8) - (AB3)/(AC3) of IC3002 (V-PRO.), and is CLK signal (CK1±) sent to pins (AB5)/(AC5)?
Is LVDS video signal (TA2± - TD2±) sent to pins (AC2)/(AC1) - (V2)/(V1) of IC3002 (V-PRO.), and is CLK signal (CK2±) sent to pins (Y2)/(Y1)? — NO → Check pins (G14)/(U10) of BU3.3V line of IC3002 (V-PRO.), pins (G10)/(N17) of BU2.5V line,pins (U16)/(G12) of BU1.8V line and peripheral circuits.

YES

②

②

YES

Is LVDS video signal (TA1± - TD1±) sent to pins (3)/(2) -(12)/(11) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK1±) sent to pins (10)/(9)?
Is LVDS video signal (TA2± - TD2±) sent to pins (17)/(16) -(26)/(25) of CONNECTOR CN1 of LCD-CONT-UNIT, and is CLK signal (CK2±) sent to pins (24)/(23)?

NO → Check CONNECTOR (SC2302, CN1) and HARNESS WIRE (LV).

YES

Is power (+12V) supplied to pins (1) - (5) of CONNECTOR CN2 in LCD-CONT-UNIT?

NO → Check CONNECTOR (CN2,P707) and HARNESS WIRE (PL).

YES

Replace LCD-CONT-UNIT.

FRC circuit failure

Note: The SD signal (576i 480i) alone passes through the FRC circuit. (The HD signal does not go through.)

Does the image appear with the HD signal, but not with the SD signal ?

YES

Is the power supplied to IC3301 (FRC)?
Is there the FRC-IN signal input at pins (142) and (13) of IC3301?
Check the soldering condition.

YES

Replace IC3301(FRC).

Does anything unusual (which or blackish screen, block noise, for example) appear on the screen?

YES

Is there the specified RESET-A signal input at pin (39) of IC3301(FRC)? (60 ms delay design)

NO

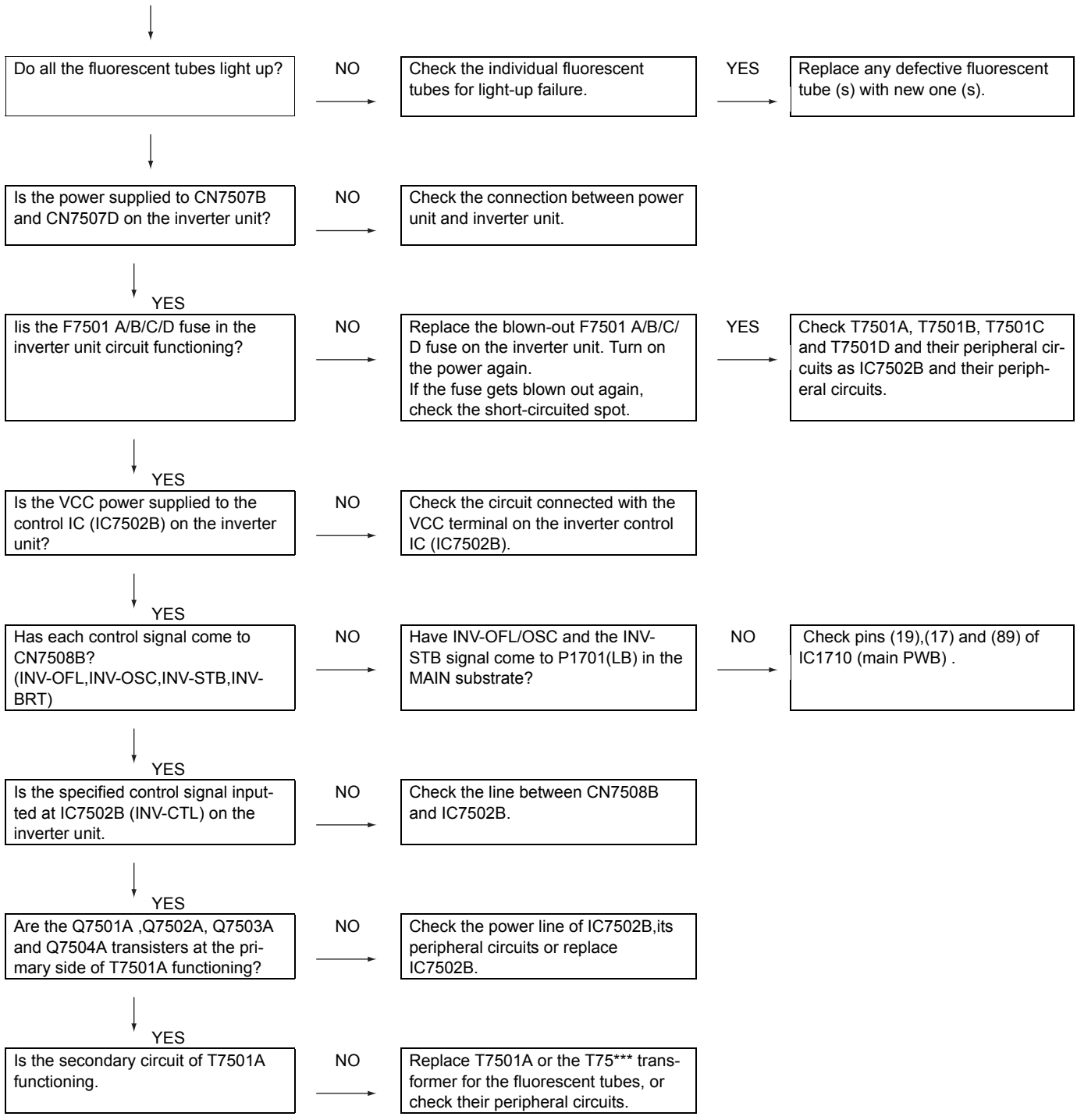
Check "RESET-A " signal pin(34) of IC1710 (FPGA).

Does the image look unusual with the power switch turned on?

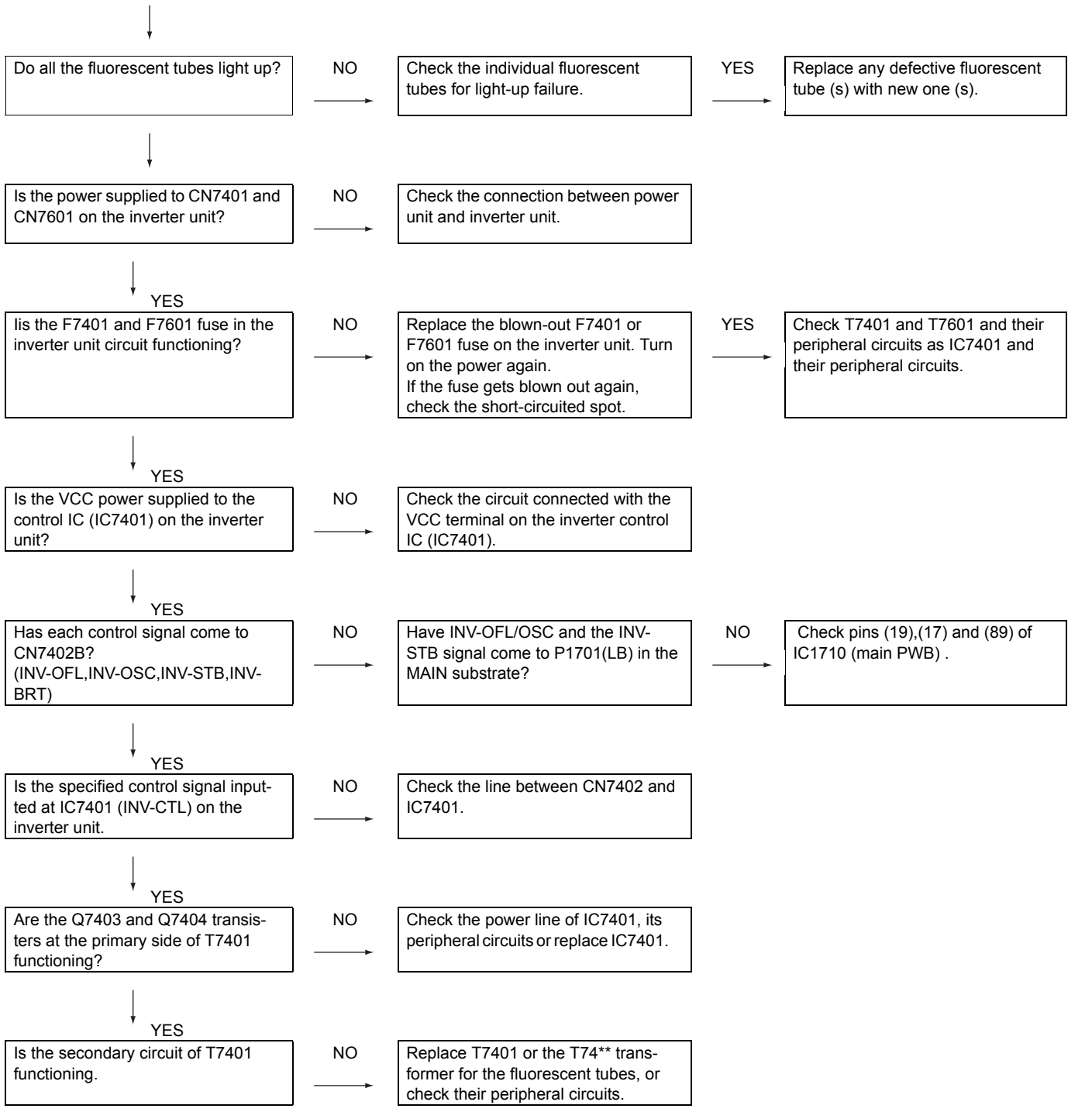
YES

Check the connection between pin (R22) of IC3002 (V-PRO.) and pin (142) of IC3301 (FRC) as well as that between pin (N20) of IC3302 and pin(13) of IC3301

52INV	Backlight failure to light up



46INV — Backlight failure to light up



LCD failure 1

Does a single or several vertical stripes appear on the LCD screen?	Does a single or several horizontal stripes appear on the LCD screen?	Do luminescent or black dots appear on the screen?	Is the on-screen image rippling or distorted?

Replace the LCD panel.

LCD failure 2

The backlight functions. Does not the image come out in the LCD screen (screen black) ?	Does the entire LCD screen look whitish all over?	Does the QS drive function?	Are the data bit dropout? (No solution even when turning on and off the QS drive)	Is the gamma correction as specified?

Replace the LCD control unit.

CHAPTER 7. MAJOR IC INFORMATIONS

[1] FUNCTIONS OF MAJOR ICs (VIDEO PROCESSOR)

1. DESCRIPTION OF MAJOR ICs

REF NO	Name	Part Code	Discruotion	Dwg. Code
IC1905	HDMI-Receiver	VHISII9023+-1Q	The SiI9023 is a second generation panelLink Cinema receiver that is compatible with the HDMI 1.1 (High Definition Multimedia interface)specification. The SiI9023 is capable of receiving and outputting two channel digital audio at up to 192KHz - an excellent solution for Digital TVs. The features of this IC are as follows. 1) Digital video interface supports video processors: 2) Analog RGB and YPbPr output: 10-bit DAC 3) Digital audio interface supports high-end audio systems:	M1
IC3002	VIDEO PRO-CESSOR	RH-IXB755WJZZ	This is a video processor IC. This IC has the following six major functions. 1) Video Processing 2) CPU 3) Scaling, Display Processing 4) Video decoder and 3D Comb filter 5) OSD and Text 6) PC Connectivity	M3
IC3501	256Mb-DDR SDRAM	RH-IXB765WJZZQ	This is a 256Mb DDR SDRAM IC. This IC features a double-data rate dynamic random-access memory containing 16M-bits columns by 16 bits. In this model, it uses it as a memory for the micon and a frame memory for Video Processor, etc.	M4
IC3502	256Mb-DDR SDRAM	RH-IXB765WJZZQ	This model uses it as a memory for the microcomputer and a frame memory for Video Processor, etc. In this model, it uses it as a memory for the micon and a frame memory for Video Processor, etc.	M4
IC3503	128Mbit-FLASH Memory	RH-IXB754WJZZ	This IC is a NOR-type 128Mbit Flash Memory. The Flash Memory stores the main program hat is used for the CPU.	M4
IC3504	D-TYPE RATCH	RH-IXB753WJZZ	This is a 16bit D-type RATCH-3 state output IC. On this model, the IC is used to transfer the main program from the flash memory to the CPU.	M4
IC3701	MSP4410K	RH-IXB752WJZZQ	This MSP (4410K) of single-chip Multistandard Sound Processors covers the sound processing of all analog TV-Standards worldwide, as well as the NICAM digital sound standards and FM stereo radio.	M5
IC3301	FRC B2 Version	RH-IXB064WJN1Q	This is an IC for Frame Rate Converter. This IC mainly processes I/P conversion: Standard 50/60 Hz interlaced to 50/60 Hz progressive. It also has the following functions: 1) Image Improvement: (Chroma Transient Improvement, Luminance Transient Improvement, Dynamic Contrast Improvement, Back Stretcher) 2) Film mode detection (2-2/3-2 pull down) 3) Film judder cancellation.	M6
IC2301	RS232C Transmitters/Receivers	VHIICL3225E-1Y	This IC is a line driver receiver in conformity with EIA/TIA-232-E(former RS-232C)standard. By connecting a PC, the system can be controlled externally.	M7
IC1710	FPGA	RH-IXB946WJZZQ	This IC is F.P.G.A (Field Pogramable Gate Arrays) for signal selector and synchronous processing of each digitalized input signal. This IC functions as extended I/O of the main microcontroller and controls timing of bus signals among ICs, etc.	M8
IC1712/08	Stepdown Converter	VHIMP1410ES-1Y	The MP1410 is a monolithic step down switch mode regurator with a built in internal power MOSFET. In this model, it works to 1.8V regurator.	M9
IC1706	Stepdown Converter	VHIMP1583++-1Y	The MP1583 is a step-down DC-DC converter of Class 3A current capacity. In this model, it works to BU1.8V regurator.	M9
IC3001	E2PROM	VHIBR24L64F-1Y	The BR24L64F is a 2-wire (I2C bus type) serial EEPROM that is electrically programmable. This IC serves to store the adjustment and other data in the adjustment process mode. The data is given out by commands from the main microprocessor.	
IC1901 IC1902	E2PROM	VHI24LC2BIN-1Y	This IC is a 2-wire (I2C bus type) serial EEPROM this is electrically programmable. The EEPROM chip stores the EDID data of HDMI input. This data is controlled through I2C signals.	

IC2303	E2PROM	VHIBR24C21F-1Y	This IC is a 2-wire (I2C bus type) serial EEPROM this is electrically programmable. The EEPROM chip stores the EDID data of PC input. This data is controlled through I2C signals.	
[AV SECTION]				
IC301 IC302	Sound Amp	VHITDA8931T-1Y	The TDA8931 is a switching power stage for high efficiency class-D audio power amplifier systems. With this amplifier a compact 1x 20 W closed loop self-oscillating digital amplifier system can be built. In this model, Audio amplifier is 15watt *2.	AV1
[POWER SUPPLY]				
IC705	Switching Regulator	VHIMR4020++-1	This IC is a power supply for the switching regulator on the primary side. Overvoltage/overcurrent protection circuit, other protection circuits and control circuits are built in this IC.	P1
IC704	Switching Regulator	VHIMR4040++-1	This IC is a power supply for the switching regulator on the primary side. Overvoltage/overcurrent protection circuit, other protection circuits and control circuits are built in this IC.	P1
IC701	Power Factor Correction IC	VHIFA5501AN-1Y	The FA5501AN control IC makes up a power factor correction converter with critical value mode. With the high-voltage CMOS process adopted, this IC provides for low power consumption. It is also equipped with various circuits: light-loaded correction circuit to suppress output voltage rises under light load, FB short-circuit detection circuit to interrupt the operation if the output voltage detector gets in trouble, etc.	
[DIGITAL SECTION]				
IC4001	DTV-PROCESSOR	RH-IXB680WJZZQ	This is a video/audio signal processing IC (Digital Processor) (STi5516) for digital tuner, which has been manufactured by STMicroelectronics, and incorporates a CPU. In this equipment, it implements GUI processing and video/audio processing for digital tuner, negotiation processing with CI-CARD, etc.	D1
IC4201	64M-SDRAM	RH-IXB742WJZZQ	This IC is 64Mb SDRAM (static dynamic random-access memory)IC. In this equipment, it is used for SMI memory (for image processing), and data is used for operation of the digital processor.	D2
IC4202	64M-SDRAM	RH-IXB742WJZZQ	This IC is 64Mb SDRAM (static dynamic random-access memory)IC. In this equipment, it is used for EMI memory (generally for CPU), and data is used for operation of the digital processor.	D2
IC4203	16Mbit-FLASH	RH-IXB921WJZZQ	This IC is a high performance CMOS super technology 16Mbit Flash Memory. Start software (loader) for the CPU with a built-in digital processor and application software have been written on this Flash Memory. The digital processor reads these softwares on start-up and implements them.	D2
IC4402/05	RATCH-3 STATE	VHILVC573AP-1Y	This is a RATCH-3 STATE output IC. In this equipment, it is used to establish negotiation communication with CI-CARD.	D3
IC4401	BALANCE TRANCEIVER	VHITCLCX245-2Y	This IC is a low voltage (3.3V) CMOS 8bit bidirectional transceiver. When setting the transmission direction change input DIR to “H”, the A bus is switched to input and the B bus is changed to output; if the DIR is set to “L”, the B bus is switched to input and the A bus is changed to output. When setting the enable input OE to “H”, both A and B buses enter the high impedance state. In this equipment, it is used to switch bus of the data from CI-CARD.	D3
IC4404	Buffer/Line Driver	VHILCX244MT-1Y	This IC is fabricated with an advanced CMOS technology to achieve high speed operation while maintaining CMOS low power dissipation. In this equipment, it is used to control negotiation communication with CI-CARD.	D3
IC4604	3-OP-AMP	VHITSH73CPT	This IC is a Triple operational amplifiers featuring high video performances with large bandwidth, low distortion and excellent supply voltage rejection. In this equipment, it is used to convert audio output signal of the digital processor to normal analog signal level and to buffer it.	D4
[DIGITAL TUNER SECTION]				
IC202	COFDM Demod IC	RH-IXB682WJZZQ	This is a COFDM (Coded Orthogonal Frequency Division Multiplex) Demodulator IC. In this equipment, IF signal from the digital tuner is decoded to MPEG-2 signal, and it is digitally output. Output signal is fed to the digital processor to implement video/audio decode processing. This IC is used for digital signal is fed to the digital processor to implement video/audio decode processing. This IC is used for digital tuner only.	TUNER

2. IC1905: VHISii9023+-1Q

HDMI RECIEVER

Pin No.	Pin Name	I/O	Pin Function
144	Q0	O	24-bit Output Pixel Data Bus.
143	Q1	O	24-bit Output Pixel Data Bus.
142	Q2	O	24-bit Output Pixel Data Bus.
141	Q3	O	24-bit Output Pixel Data Bus.
140	Q4	O	24-bit Output Pixel Data Bus.
137	Q5	O	24-bit Output Pixel Data Bus.
136	Q6	O	24-bit Output Pixel Data Bus.
133	Q7	O	24-bit Output Pixel Data Bus.
132	Q8	O	24-bit Output Pixel Data Bus.
131	Q9	O	24-bit Output Pixel Data Bus.
130	Q10	O	24-bit Output Pixel Data Bus.
129	Q11	O	24-bit Output Pixel Data Bus.
126	Q12	O	24-bit Output Pixel Data Bus.
125	Q13	O	24-bit Output Pixel Data Bus.
124	Q14	O	24-bit Output Pixel Data Bus.
123	Q15	O	24-bit Output Pixel Data Bus.
119	Q16	O	24-bit Output Pixel Data Bus.
118	Q17	O	24-bit Output Pixel Data Bus.
117	Q18	O	24-bit Output Pixel Data Bus.
116	Q19	O	24-bit Output Pixel Data Bus.
113	Q20	O	24-bit Output Pixel Data Bus.
112	Q21	O	24-bit Output Pixel Data Bus.
111	Q22	O	24-bit Output Pixel Data Bus.
110	Q23	O	24-bit Output Pixel Data Bus.
1	DE	O	Data enable.
2	HSYNC	O	Horizontal Sync Output control signal.
3	VSYNC	O	Vertical Syanc Output control signal.
121	ODCK	O	Output Data Clock.
97	XTALIN	I	Crystal Clock Input.
96	XTALOUT	O	Crystal Clock Output.
88	MCLKOUT	O	Audio Master Clock Output.
86	SCK	O	I2S Serial Clock Output.
85	WS	O	I2S Word Select Output.
84	SDO	O	I2S Serial Data Output.
78	SPDIF	O	S/PDIF Audio Output
77	MUTEOUT	O	Mute Audio Output.
104	INT	O	Interrupt Output.
102	RESET#	I	Reset Pin. Active LOW. 5V Tolerant.
32	DSCL0	I	DDC I2C Clock for Port 0. 5V Tolerant.
31	DSDA0	Bi-Di	DDC I2C Data for Port 0. 5V Tolerant.
30	DSCL1	I	DDC I2C Clock for Port 1. 5V Tolerant.
29	DSDA1	Bi-Di	DDC I2C Data for Port 1. 5V Tolerant.
28	CSCL	I	Configuration I2C Clock. 5V Tolerant.
27	CSDA	Bi-Di	Configuration I2C Data. 5V Tolerant.
103	SCDT	O	Indicates active video at HDMI input port.
107	CLK48B	Bi-Di	Data Bus Latch Enable. 2
34	R0PWR5V	I	Port 0 Transmitter Detect. 5V Tolerant.
33	R1PWR5V	I	Port 1 Transmitter Detect. 5V Tolerant.
101	RSVDL	I	Reserved ,must be tied Low.
56	RSVD_A	Bi-Di	Reserved Pin, leave unconnected.
6,7,8,10, 11,12,13, 14,17,18, 19,20,81, 82,93,10 0	NC	-	No internal connection.
87	MCLKIN	O	Audio Master Clock Input Reference.
9	EVNODD	O	Indicates Even or Odd field for interlaced formats. Polarity programmable in register.
40	R0XC+	I	TMDS input clock pair. HDMI Port 0.
39	R0XC-	I	TMDS input clock pair. HDMI Port 0.
44	R0X0+	I	TMDS input data pair. HDMI Port 0.
43	R0X0-	I	TMDS input data pair. HDMI Port 0.

48	R0X1+	I	TMDS input data pair. HDMI Port 0.
47	R0X1-	I	TMDS input data pair. HDMI Port 0.
52	R0X2+	I	TMDS input data pair. HDMI Port 0.
51	R0X2-	I	TMDS input data pair. HDMI Port 0.
59	R1XC+	I	TMDS input clock pair. HDMI Port 1.
58	R1XC-	I	TMDS input clock pair. HDMI Port 1.
63	R1X0+	I	TMDS input data pair. HDMI Port 1.
62	R1X0-	I	TMDS input data pair. HDMI Port 1.
67	R1X1+	I	TMDS input data pair. HDMI Port 1.
66	R1X1-	I	TMDS input data pair. HDMI Port 1.
71	R1X2+	I	TMDS input data pair. HDMI Port 1.
70	R1X2-	I	TMDS input data pair. HDMI Port 1.
22,23,35, 74,79,92, 105,114, 128,139	CVCC18	-	Digital Logic VCC.
21,24,36, 73,80,91, 106,115, 127,138	CGND	-	Digital Logic GND.
5,16,26,7 6,89,109, 122,134	IOVCC	-	Input/Output Pin VCC.
4,15,25,7 5,90,108, 120,135	IOGND	-	Input/Output Pin GND.
38,42,46, 50,57,61, 65,69	AVCC	-	TMDS Analog VCC.
41,45,49, 53,60,64, 68,72	AGND	-	TMDS Analog GND.
37	PVCC0	-	TMDS Port 0 PLL VCC.
55	PVCC1	-	TMDS Port 1 PLL VCC.
54	TMDSPGND	-	TMDS PLL GND.
94	AUDPVCC18	-	ACR PLL VCC.
95	AUDPGND	-	ACR PLL GND.
98	XTALVCC	-	ACR PLL Crystal Input VCC.
99	REGVCC	-	ACR PLL Regulator VCC.

3. IC3501/3502: RH-IXB765WJZZ

256Mb DDR SDRAM

Pin No.	Pin Name	I/O	Pin Function
45,46	CK, $\overline{CK}$	I	Clock : CK and $\overline{CK}$ are differential clock inputs. All address and control input signals are sampled on the positive edge of CK and negative edge of CK. Output (read) data is referenced to both edges of $\overline{CK}$. Internal clock signals are derived from CK/ $\overline{CK}$.
44	CKE	I	Clock Enable : CKE HIGH activates, and CKE LOW deactivates internal clock signals, and device input buffers and output drivers. Taking CKE Low provides PRECHARGE POWER DOWN and SELF REFRESH operction(all bank idle) CKE is synchronous for POWER-DOWN entry and exit, and for SELF REFRESH entry. CKE is asynchronous for SELF REFRESH exit, and for output disable. CKE must be maintained high throughput READ and WRITE accesses. Input buffers, excluding CK, $\overline{CK}$ and CKE are disabled during POWER-DOWN. Input buffers, excluding CKE are disabled during SELF REFRESH. CKE is an SSTL_2 input, but will detect an LVCMOS Low level after Vdd is applied upon 1st power up, After VREF has become stable during the power on and initialization sequence, it must be maintained for proper operation of the CKE receiver. For proper SELF-REFRESH entry and exit, VREF must be maintained to this input.
24	$\overline{CS}$	I	Chip Select : $\overline{CS}$ enables(registered LOW) and disables(registered HIGH) the command decoder. All commands are masked when $\overline{CS}$ is registered HIGH. $\overline{CS}$ provides for external bank selection on systems with multiple banks. $\overline{CS}$ is considered part of the command code.
21-23	$\overline{RAS}$, $\overline{CAS}$, $\overline{WE}$	I	Command Inputs : $\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ (along with $\overline{CS}$) define the command being entered.
20,47	LDM,(UDM)	I	Input Data Mask : DM is an input mask signal for write data. Input data is masked when DM is sampled HIGH along with that input data during a WRITE access. DM is sampled on both edges of DQS. Although DM pins are input only, the DM loading matches the DQ and DQS loading. For the x16, LDM corresponds to the data on DQ0>D7 ; UDM corresponds to the data on DQ8>DQ15. DM may be driven high, low, or floating during READs.
26,27	BA0, BA1	I	Bank Addres Inputs : BA0 and BA1 define to which bank an ACTIVE, READ,WRITE or PRECHARGE command is being applied.
28-32, 35-42	A [0 : 12]	I	Address Inputs : Provide the row address for ACTIVE commands, and the column address and AUTO PRECHARGE bit for READ/WRITE commands, to select one location out of the memory array in the respective bank. A10 is sampled during a PRECHARGE command to determine whether the PRECHARGE applies to one bank (A10 LOW) or all banks (A10 HIGH). If only one bank is to be precharged, the bank is selected by BA0, BA1. The address inputs also provide the op-code during a MODE REGISTER SET command. BA0 and BA1 define which mode register is loaded during the MODE REGISTER SET command (MRS or EMRS).
2,4,5,7, 8,10, 11,13, 54,56, 57,59, 60,62, 63,65	DQ	I/O	Data Input/Output : Data bus.
16,51	LDQS,(U)DQS	I/O	Data Strobe : Output with read data, input with write data. Edge-aligned with read data,centered in write data. Used to capture write data. For the x16, LDQS corresponds to the data on DQ0>D7 ; UDQS corresponds to the data on DQ8>DQ15
14,17, 19,25, 43,50, 53,	NC	-	No Connect : No internal electrical connection is present.
3,9,15, 55,61	VDDQ	-	DQ Power Supply : +2.5V $\pm$ 0.2V. (+2.6V $\pm$ 0.1V for DDR400)

6,12, 52,58, 64	VSSQ	-	DQ Ground.
1,18,33,	VDD	-	Power Supply : +2.5V ± 0.2V. (+2.6V ± 0.1V for DDR400)
34,48, 66	VSS	-	Ground.
49	VREF	I	SSTL_2 reference voltage.

4. IC3503: RH-IXB754WJZZ

128Mb Flash Memory

Pin No.	Pin Name	I/O	Pin Function
		I	
2-12, 15, 18-26, 54, 31	A0-A22	I	23 Address Inputs.
35,37,39,41,44,46,48, 50	DQ0-DQ7	I/O	8 Data Inputs / Outputs.
35-42,44-50	DQ8-DQ14	I/O	7 Data Inputs / Outputs.
51	DQ15A-1	I	Data Input/Output or Address Input.
32	$\overline{CE}$	I	Chip Enable.
34	$\overline{OE}$	O	Output Enable.
13	$\overline{WE}$	I	Write Enable.
16	Vpp/$\overline{WP}$	I	Hardware Vpp/ Write Protect
14	$\overline{RP}$	I	Reset/Block Temporary Unprotect.
17	R/$\overline{B}$	O	Ready / Busy Output.
53	$\overline{BYTE}$	I	Byte/Word Organization Select.
43	VCC	-	Supply Voltage
33.52	VSS	-	Ground.
27,28,55,56	NC	-	Not Connected Internally.
29	VCCQ	-	Supply Voltage for Input/Output.

5. IC3504: RH-IXB753WJZZ

16BIT D-TYPE LATCH.

Pin No.	Pin Name	I/O	Pin Function
47,46,44,43,41,40,38,37	1D1-1D8	I	Input Signal 1D1-1D8.
36,35,33,32,30,29,27,26	2D1-2D8	I	Input Signal 2D1-2D8.
1	$1\overline{OE}$	I	Non_Output Enable Signal 1.
24	$2\overline{OE}$	I	Non_Output Enable Signal 2.
48	1LE	I	Latch Enable Signal 1.
25	2LE	I	Latch Enable Signal 2.
2,3,5,6,8,9,11,12	1Q1-1Q8	O	Latch Output Signal 1Q1-1Q8.
13,14,16,17,19,20,22,23	2Q1-2Q8	O	Latch Output Signal 2Q1-2Q8.
7,18,31,42	VCC	-	Supply Voltage.
4,10,15,21,28,34,39,45	GND	-	Ground.

6. IC3701: RH-IXB752WJZZ

Multistandard Sound Processor.

Pin No.	Pin Name	I/O	Pin Function	NET_NAME
1	NC	-	Not Connected.	N.C.
2	I2C_CL	I/O	I2C Clock.	SCL5
3	I2C_DA	I/O	I2C Data .	SDA5
4	I2S_CL	I/O	Sync. I2S Clock.	N.C.
5	I2S_WS	I/O	Sync. I2S Word Strobe .	N.C.
6	I2S_DA_OUT	O	Sync. I2S Data Output.	N.C.
7	I2S_DA_IN1	I	Sync. I2S Data Input 1.	N.C.
8	I2S_DEL_IN	I	Sync. I2S Input From Delay Line.	I2S_DEL_IN
9	I2S_DEL_OUT	O	Sync. I2S 0utput to Extemal Delay Line.	I2S_DEL_OUT
10	I2S_DEL_CL	O	I2S Clock Output for External Delay.	I2S_DEL_CL
11	I2S_DEL_WS	O	I2S Word Strobe Output for External Delay.	I2S_DEL_WS
12	DVSUP	-	Digilal Power Supply.	+5V
13	DVSUP	-	Digital Power Supply .	+5V
14	DVSS	-	Digital Ground.	GND
15	DVSS	-	Digital Ground.	GND
16	DVSS	-	Digital Ground.	GND
17	I2S_DA_IN2	I	Sync. I2S Data Input 2.	N.C.
18	NC	-	Not Connected.	N.C.
19	I2S_CL3	I/O	Async. I2S Clock Input/Sync. 12S Clock Output.	N.C.
20	I2S_WS3	I/O	Async. I2S Word Strobe Input/Sync. 12S Word Strobe Output.	N.C.
21	RESETQ	I	Power - On Reset (active low)	RESET_A
22	I2S_DA_IN3	I	Sync./Async. I2S Data Input3.	N.C.
23	I2S_DA_IN4	I	Sync.12S Data Input 4.	N.C.
24	DACA_R	O	Aux Output, Right.	OPEN
25	DACA_L	O	Aux Output, Left.	OPEN
26	VREF2	-	Reference Ground 2.	GND
27	DACM_R	O	Main Output, Right	SPKOUTR
28	DACM_L	O	Main Output, Left.	SPKOUTL
29	DACM_C	O	Main Output, Center.	N.C.
30	DACM_SUB	O	Main Output, Subwoofer.	N.C.
31	DACM_SR	O	Surround Output, Right.	N.C.
32	DACM_SL	O	Surround Output, Left.	N.C.
33	SC2_OUT_R	O	SCART 2 Output, Right.	EXT2_OUT_R
34	SC2_OUT_L	O	SCART 2 Output, Left.	EXT2_OUT_L
35	VREF 1	-	Reference Ground 1.	GND
36	SC1_OUT_R	O	SCART 1 Output, Right.	EXT1_OUT_R
37	SC1_OUT_L	O	SCART 1 Output, Left.	EXT1_OUT_L
38	CAPL_A	-	Volume Capacitor Aux .	CAPL_A
39	AHVSUP	I	Analog Power Supply +8V.	+8V
40	CAPL_M	-	Volume Capacitor Main.	CAPL_M
41	SC3_OUT_R	O	SCART 3 Output, Right.	N.C.
42	SC3_OUT_L	O	SCART 3 Output, Left.	N.C.
43	AHVSS	-	Analog Ground.	GND
44	AHVSS	-	Analog Ground.	GND
45	AGNDC	-	Analog Reference Voltage.	AGNDC
46	NC	-	Not Connected.	N.C.
47	SC4_IN_L	I	SCART 4 Input, Left.	EXT4_IN_L
48	SC4_IN_R	I	SCART 4 Input, Right.	EXT4_IN_R
49	ASG	-	Analog Shield Ground.	GND
50	SC3_IN_L	I	SCART 3 Input, Left.	EXT3_IN_L
51	SC3_IN_R	I	SCART 3 Input, Right.	EXT3_IN_R
52	ASG	-	Analog Shield Ground.	GND
53	SC2_IN_L	I	SCART 2 Input, Left.	EXT2_IN_L
54	SC2_IN_R	I	SCART 2 Input, Right.	EXT2_IN_R
55	ASG	-	Analog Shield Ground.	GND
56	SC1_IN_L	I	SCART 1 Input, Left.	EXT1_IN_L
57	SC1_IN_R	I	SCART 1 Input, Right.	EXT1_IN_R
58	VREFTOP	-	Reference Voltage IF A/D Converter.	VREF TOP
59	SC5_IN_L/ MONO_IN	I	SCART 5 Input, Left/SCART Mono Input for PMQFP64-2.	HDMI_A_IN_L
60	SC5_IN_R	I	SCART 5 Input, Right.	HDMI_A_IN_R

61	AVSS	-	Analog Ground for IF Part.	GND
62	AVSS	-	Analog Ground for IF Part.	GND
63	NC	-	Not Connected.	N.C.
64	NC	-	Not Connected.	N.C.
65	AVSUP	-	Analog Power Supply +5V.	+5V
66	AVSUP	-	Analog Power Supply +5V.	+5V
67	ANA_IN1 +	I	IF Input 1.	SIF-IN
68	ANA_IN -	I	IF Common (can be Left vacant only if IF input 1 is not used)	ANA-IN-
69	ANA_IN2 +	I	IF Input2 (can be left vacant only if IF input 1 is not used)	ANA-IN2+
70	TESTEN	-	Test Pin (imust be connected to ground)	GND
71	XTAL_IN	I	Crystal Oscillator Input.	XTAL-IN
72	XTAL_OUT	O	Crystal Oscillator Output.	XTAL-OUT
73	TP	I	Test Input.	N.C.
74	AUD_CL_OUT	O	Audio Clock Output (18.432MHz)	N.C.
75	NC	-	Not Connected.	N.C.
76	SPDIF_OUT	O	S/PDIF Output.	N.C.
77	DCTRI/O_1	I/O	Digital Control Port 1.	N.C.
78	DCTRI/O_0	I/O	Digital Control Port 0.	N.C.
79	ADR_SEL	I	I2C Address Select.	GND
80	STANDBYQ	-	Standby (active low)	+5V

7. IC3301: FRC RH-IXB064WJ (FRC9429A)

FRAME RATE CONVERTER

Pin No.	Pin Name	I/O	Pin Function
1	NC	-	No Connection
2	NC	-	Test, do not use
3	656I1/YIN1	I	Digital (luminance) input
4	656I2/YIN2	I	Digital (luminance) input
5	VIN	I	Vertical sync input
6	656I3/YIN3	I	Digital (luminance) input
7	656I4/YIN4	I	Digital (luminance) input
8	VDDP0	S	Supply digital pad (3.3 V)
9	VSSP0	S	Supply digital pad (0 V)
10	HIN	I	Horizontal sync input
11	656I5/YIN5	I	Digital (luminance) input
12	656I6/YIN6	I	Digital (luminance) input
13	656I7/YIN7	I	Digital (luminance) input [MSB]
14	CLKIN	I	Clock input (max. 81.0 MHz)
15	VDDD0	S	Supply digital pad (1.8 V)
16	VSSD0	S	Supply digital pad (0 V)
17	AVI	I	Active video input
18	VDDAPLL	S	Supply analog PLL (1.8 V)
19	VSSAPLL	S	Supply analog PLL (0 V)
20	VSSD1	S	Supply digital core (0 V)
21	VDDD10	S	Supply digital core (1.8 V)
22	VDDD11	S	Supply digital core (1.8 V)
23	XIN	I	Crystal connection 1
24	XOUT	O	Crystal connection 2
25	VSSP1	S	Supply digital pad (0 V)
26	VDDP1	S	Supply digital pad (3.3 V)
27	RGBOUT9	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output [MSB](SELOMODE=1)
28	RGBOUT8	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output (SELOMODE=1)
29	RGBOUT7	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output (SELOMODE=1)
30	RGBOUT6	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output (SELOMODE=1)
31	RGBOUT5	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) output (SELOMODE=1)
32	RGBOUT4	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output (SELOMODE=1)
33	AVO/ITR	O	Active video output (CPUIRQ=0) Interrupt signal output from μC (CPUIRQ=1) Static 0 (CPUIRQ=2) Static 1 (CPUIRQ=3)
34	VOUT	O	Vertical sync output
35	HOUT	O	Horizontal sync output. (Synchronized to 40.5-81 MHz CLKOUTSEL72=1) (Synchronized to 20.25-40.5 MHz CLKOUTSEL72=0 and CLKOUTSEL=1) (Synchronized to 15.1875-30.75 MHz CLKOUTSEL72=0 and CLKOUTSEL=0)
36	CLKOUT	O	Output clock disabled (CLKOUTON=0) Output clock (max. 81 MHz) (CLKOUT=1) (40.5-81 MHz CLKOUT72=1 20.25-40.5 MHz CLKOUT72=0 and CLKOUTSEL=1 1515.1875-30.37 MHz CLKOUT72=0 and CLKOUTSEL=0)
37	VSSP2	S	Supply digital pad (0 V)
38	VDDP2	S	Supply digital pad (3.3 V)
39	RESET	I	Reset input

40	RGBOUT3	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output (SELOMODE=1)
41	RGBOUT2	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output (SELOMODE=1)
42	RGBOUT1	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output (SELOMODE=1)
43	RGBOUT0	O	Tristate (SELOMODE=0) Digital (red: SELRB=0; blue: SELRB=1;) Output [LSB] (SELOMODE=1)
44	YOUT9	O	Tristate (ENITUE=0) Digital (luminance/green) output [MSB] (ENITUE=1)
45	YOUT8	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
46	YOUT7	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
47	VDDD2	S	Supply digital core (1.8 V)
48	VSSD2	S	Supply digital core (0 V)
49	VDDP3	S	Supply digital pad (3.3 V)
50	VSSP3	S	Supply digital pad (0 V)
51	NC	-	No Connection
52	YOUT6	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
53	YOUT5	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
54	VSSP4	S	Supply digital pad (0 V)
55	YOUT4	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
56	VDDP4	S	Supply digital pad (3.3 V)
57	YOUT3	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
58	YOUT2	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
59	YOUT1	O	Tristate (ENITUE=0) Digital (luminance/green) output (ENITUE=1)
60	YOUT0	O	Tristate (ENITUE=0) Digital (luminance/green) output [LSB] (ENITUE=1)
61	CLKF20	O	Output clock 20.25 MHz disabled (CLKF20ON=0) Output clock 20.25 MHz enabled (CLKF20ON=1)
62	UVOUT9	O	Tristate (ENITUE=0) Digital (chrominance/blue) output [MSB] (ENITUE=1and SELRB=0) Digital (chrominance/red) output [MSB] (ENITUE=1and SELRB=1)
63	VSSD30	S	Supply digital core (0 V)
64	VSSD31	S	Supply digital core (0 V)
65	VDDD30	S	Supply digital core (1.8 V)
66	VDDD31	S	Supply digital core (1.8 V)
67	UVOUT8	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
68	UVOUT7	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
69	VSSP50	S	Supply digital pad (0 V)
70	VSSP51	S	Supply digital pad (0 V)
71	VSSP52	S	Supply digital pad (0 V)
72	VDDP5	S	Supply digital pad (3.3 V)
73	UVOUT6	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
74	NC	-	No Connection
75	NC	-	No Connection
76	UVOUT5	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
77	NC	-	No Connection

78	UVOUT4/ INTR	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1) Interrupt signal output from μC (CPUIRQ=5) Static 0 (CPUIRQ=6) Static 1 (CPUIRQ=7)
79	VDDP6	S	Supply digital pad (3.3 V)
80	VSSP6	S	Supply digital pad (0 V)
81	UVOUT3	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
82	UVOUT2	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
83	UVOUT1	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
84	UVOUT0	O	Tristate (ENITUE=0) Digital (chrominance/blue) output (ENITUE=1 and SELRB=0) Digital (chrominance/red) output (ENITUE=1 and SELRB=1)
85	VDDD4	S	Supply digital core (1.8 V)
86	VSSD4	S	Supply digital core (0 V)
87	VDDA0	S	Supply analog DAC SVM (3.3 V)
88	ASVMOUT	O	Middle level (STANDBY=1) Analog SVM output (ACTFBL=0 and STANDBY=1) Analog SVM output (control by SVMOFF possible) (ACTFBL=1 and STANDBY=0)
89	VSSA0	S	Supply analog DAC SVM (0 V)
90	VDDA1	S	Supply analog DAC B/U (3.3 V)
91	AUOUT	O	Middle level (STANDBY=0) Chrominance output (STANBY=1)
92	VSSA1	S	Supply analog DAC B/U (0 V)
93	VDDA2	S	Supply analog DAC G/Y (3.3 V)
94	AYOUT	O	Middle level (STANDBY=0) Luminance output (STANDBY=1)
95	VSSA2	S	Supply analog DAC G/Y (0 V)
96	VDDA3	S	Supply analog DAC R/V (3.3 V)
97	AVOUT	O	Middle level (STANDBY=0) Chrominance output (STANDBY=1)
98	VSSA3	S	Supply analog DAC R/V (0 V)
99	VSSA4	S	Supply analog band gap (0 V)
100	VDDA4	S	Supply analog band gap (3.3 V)
101	VSSD5	S	Supply digital core (0 V)
102	VDDD5	S	Supply digital core (1.8 V)
103	NC	-	No Connection
104	NC	-	No Connection
105	SCL	I/O	I2C bus clock
106	SDA	I/O	I2C bus data
107	NC	-	No Connection
108	NC	-	No Connection
109	VSSP7	S	Supply digital pad (0 V)
110	VDDP7	S	Supply digital pad (3.3 V)
111	TMS	I	Test mode select (3.3 V)
112	NC	-	No Connection
113	TDO/ SVMOFF	O/I	Test data out (ACTSVMOFF=1) SVM input signal (ACTSVMOFF=0)
114	TDI	I	Test data in (0V)
115	TCLK	I	Test clock (3.3 V)
116	INTR	O	Interrupt signal Static 0 (CPUIRQ2=00) Static 1 (CPUIRQ2=01) Interrupt signal output from μC (CPUIRQ2= 1x)
117	656I02	I	Digital (luminance) input [LSB]
118	656I12	I	Digital (luminance) input
119	656I22	I	Digital (luminance) input
120	656I32	I	Digital (luminance) input
121	656I42	I	Digital (luminance) input
122	656I52	I	Digital (luminance) input

123	656I62	I	Digital (luminance) input
124	656I72	I	Digital (luminance) input
125	CLKIN2	I	Clock input [max. 81.0 MHz]
126	UVIN0	I	Digital (chrominance) input [LSB]
127	UVIN1	I	Digital (chrominance) input
128	UVIN2	I	Digital (chrominance) input
129	UVIN3	I	Digital (chrominance) input
130	VSSP8	S	Supply digital core (0 V)
131	VDDP8	S	Supply digital core (3.3 V)
132	VDD8M	S	Supply memory (1.8 V)
133	VSSD60	S	Supply digital core (0 V)
134	VSSD61	S	Supply digital core (0 V)
135	VDDD60	S	Supply digital core (1.8V)
136	VDDD61	S	Supply digital core (1.8 V)
137	UVIN4	I	Digital (chrominance) input
138	UVIN5	I	Digital (chrominance) input
139	UVIN6	I	Digital (chrominance) input
140	UVIN7	I	Digital (chrominance) input [MSB]
141	NC	-	No Connection
142	656I0/YIN0	I	Digital (luminance) input [LSB]
143	VSSP9	S	Supply digital pad (0 V)
144	VDDP9	S	Supply digital pad (3.3 V)

8. IC1710: RH-IXB946WJZZ

FPGA

Pin No.	Pin Name	I/O	Pin Function	Sheet name
1	EXP[8]	O	REG2 light control system identify	REG2
2	EXP[9]	O	REG external sync identify	REG
3	EXP[10]	O	QS parameter	TEMP3
4	EXP[11]	O	QS parameter	TEMP2
5	EXP[12]	O	QS parameter	TEMP1
6	EXP[13]	O	QS parameter	QSSET
7	EXP[14]	O	LED SLEEP (ON at "L")	LEDSLP
8	EXP[15]	O	LED OPC (ON at "L")	LEDOPC
9	VCCIO1 3.3V	-	Power supply 3.3V	3.3V
10	GND	-	Ground	GND
11	GND	-	Ground	GND
12	PCLK	I	Panel clock 74.25MHz	PCLK
13	VCCINT 3.3V	-	Power supply 3.3V	3.3V
14	I/O	-	GND*	NC
15	I/O	-	GND*	NC
16	I/O	-	GND*	NC
17	OSCOUT	O	Light control clock output (No lamp light-up at initial “L”)	OSCOUT
18	I/O	-	GND*	NC
19	OFLOUT	O	Light control PWM output (No lamp light-up at initial “L”)	OFL1OUT
20	OFL2OUT	O	Light control PWM output	OFL2OUT
21	I/O	-	GND*	NC
22	(TMS)	I	Inline Program JTAG TMS/ OPEN	TMS
23	(TDI)	I	Inline Program JTAG DataIn / OPEN	TDI
24	(TCK)	I	Inline Program JTAG Clock/ OPEN	TCK
25	(TDO)	O	Inline Program JTAG DataOut / OPEN	TDO
26	I/O	O	Write mode Vpp-cont	NC
27	I/O	-	GND*	NC
28	I/O	-	GND*	NC
29	I/O	-	GND*	NC
30	I/O	-	GND*	NC
31	VCCIO1 3.3V	-	Power supply 3.3V	3.3V
32	GND	-	Ground	GND
33	I/O	-	GND*	NC
34	EXP[16]	O	MSP FRC Reset Note 2	RESET_A
35	EXP[17]	O	DTU-CVBS/ (S-VY·CVBS) switching	G_ONSYNC
36	EXP[18]	O	DTV/PC/HDMI switching	DTVPC
37	EXP[19]	O	DTV/PC/HDMI switching	DTVHDMI
38	EXP[20]	O	E2PROM WP for HDMI	HDMI_WP
39	EXP[21]	O	Panel flip horizontal	LCDLR
40	EXP[22]	O	Panel flip vertical	LCDUD
41	EXP[23]	O	Panel 50/60Hz	FRAME
42	I/O	-	GND*	NC
43	I/O	-	GND*	NC
44	I/O	-	GND*	NC
45	VCCIO1 3.3V	-	Power supply 3.3V	3.3V
46	GND	-	Ground	GND
47	EXP[24]	O	Common Bias Adjustment write Protect.	TCON_WP
48	EXP[25]	O	Not used	NC
49	EXP[26]	O	Chage shear impulse on/off.	CSI
50	EXP[27]	O	S+8V Control Signal	S+8V-CTL
51	EXP[28]	O	Memory Bank Select.	BANK
52	EXP[29]	O	Not used	NC
53	EXP[30]	O	Not used	NC
54	EXP[31]	O	Not used	NC
55	I/O	-	GND*	NC
56		-	GND*	NC
57	I/O	-	GND*	NC
58	I/O	-	GND*	NC
59	VCCIO2 3.3V	-	Power supply 3.3V	3.3V
60	GND	-	Ground	GND
61	I/O	-	GND*	NC
62	GCLR	I	VGC_Reset_Line	RESET_N

63	VCCINT 3.3V	-	Power supply 3.3V	3.3V
64	SCK	I	from VGC	SCK
65	GND	-	Ground	GND
66	SEN	I	from VGC	FPGA_SDE
67	SDAI	I	from VGC	FPGA_SDA
68	I/O	-	GND*	NC
69	SDAO	O	Write mode RESET output	FPGA_SDAO
70	I/O	-	GND*	NC
71	I/O	-	GND*	NC
72	I/O	-	GND*	NC
73	I/O	-	GND*	NC
74	I/O	-	GND*	NC
75	OFL2EN	I	OFL2_EN external setting terminal	GND
76	I/O	-	GND*	NC
77	I/O	O	VGC write Open drain (Write mode at "H")	BOOT
78	I/O	-	GND*	NC
79	GND	-	Ground	GND
80	VCCIO2 3.3V	-	Power supply 3.3V	3.3V
81	I/O	I	VSYNC_OSC	VSYNC
82	I/O	I	HSYNC_OSC	HSYNC
83	I/O	-	GND*	NC
84	I/O	-	GND*	NC
85	EXP[0]	O	DTI2CSEL	DTI2CSEL
86	EXP[1]	O	DTM_RESET	DTM_RESET
87	EXP[2]	O	DTU_ON (Analog tuner at "L" D-tuner at "H")	DTU_ON
88	EXP[3]	O	232C on/off SW (RS232C action at "H": VGC write enabled)	IREM_SW
89	EXP[4]	O	STB (LAMP ON)	STB
90	EXP[5]	O	S2_MUTE	S2MUTE
91	EXP[6]	O	ANT+5V ON	ANT+5V ON
92	EXP[7]	O	S_MUTE	S-MUTE
93	GND	-	Ground	GND
94	VCCIO2 3.3V	-	Power supply 3.3V	3.3V
95	I/O	-	GND*	NC
96	I/O	-	GND*	NC
97	I/O	-	GND*	NC
98	I/O	-	GND*	TP1703
99	I/O	-	GND*	NC
100	OFL-SET-IN	I	OFLWD[8] external setting terminal	GND

GND*: Non-configured pins are fixed at GND.
Terminals' electrical characteristics are referred to in the EPM240T100C5N data sheet of Altera.

Note 1: Reset output monitor terminal with EXP31 in use.
Note 2: Composed of GCLR and OR.

9. IC1712: VHIMP1410ES-1

Step Down Converter.

Pin No.	Pin Name	I/O	Pin Function
1	BS	I	High-Side Gate Drive Boost input. BS supplies the drive for the high-side n-channel MOSFET switch. Connect a 10nF or greater capacitor from SW to BS to power the high-side switch.
2	IN	I	Power input. IN supplies the power to the IC,as well as the step-down converter switches. Drive IN with a 4.75V to 15V power source. Bypass IN to GND with a suitably large capacitor to eliminate noise on the input to the IC. See input Capacitor.
3	SW	O	Power Switching Output. SW is the switching node that supplies power to the output. Connect the output LC filter from SW to the output load. Note that a capacitor is required from SW to BS to power the high-side switch.
4	GND	-	Ground.
5	FB	I	Feedback input. FB senses the output voltage to regulate that voltage. Drive FB with a resistive voltage divider from the output voltage. The feedback threshold is 1.22V. See Setting the Output Voltage.
6	COMP	-	Compensation Node. COMP is used to compensate the regulation control loop. Connect a series RC network from COMP to GND to compensate the regulation control loop. See Compensation.
7	EN	I	Enable input. EN is a digital input that turns the regulator on or off. Drive EN high to turn on the regulator,drive it low to turn it off. For automatic startup,leave EN unconnected.
8	N/C	-	No Connect.

10. IC1706: VHIMP1583++-1

Step Down Converter

Pin No.	Pin Name	I/O	Pin Function
1	BS	I	High-Side Gate Drive Boost Input. BS supplies the drive for the high-side n-channel MOSFET Switch. Connect a 4.7nF or greater capacitor from SW to BS to power the high side switch.
2	IN	I	Power input. IN supplies the power to the IC, as well as the step-down converter switches. Drive IN with a 4.75V to 23V power source. Bypass IN to GND with a suitably large capacitor to eliminate noise on the input to the IC. See Input Capacitor.
3	SW	O	Power Switching Output. SW is the switching node that supplies power to the output. Connect the output LC filter from SW to the output load. Note that a capacitor is required from SW to BS to power the high-side switch.
4	GND	-	Ground. (Note: Connect the exposed pad on backside to Pin4).
5	FB	I	Feedback input. FB senses the output voltage to regulate that voltage. Drive FB with a resistive voltage divider from the output voltage. The feedback threshold is 1.222V. See Setting the Output Voltage.
6	COMP	I	Compensation Node. COMP is used to compensate the regulation control loop. Connect a series RC network from COMP to GND to compensate the regulation control loop. In same cases, an additional capacitor from COMP to GND is required. See Compensation.
7	EN	I	Enable input EN is a digital input that turns the regulator on or off. Drive EN high to turn on the regulator, drive it low to tum it off . For automatic startup, leave EN unconnected.
8	SS	I	Soft Start Control input. SS controls the soft start period. Connect a capacitor from SS to GND to set the soft-start period. A 0.1μF capacitor sets the soft-start period to l0ms To disable the soft-start featur Cleave SS unconnected.

11. IC301/302: VHITDA8931T-1

SOUND AMP

Pin No.	Pin Name	I/O	Pin Function
1	VSSD	-	negative digital supply voltage; heat spreader
2	VSSA	-	Negative analogue supply voltage.
3	INN	I	inverting input.
4	INP	I	non inverting input.
5	VDDA	-	positive analog supply voltage.
6	POWERUP	I	power-up input.
7	ENABLE	I	enable input.
8	DIAG	O	diagnostic output.
9	CGND	-	control ground; reference ground for pins POWERUP, ENABLE and DIAG.
10	VSSD	-	negative digital supply voltage; heat spreader.
11	VSSD	-	negative digital supply voltage; heat spreader.
12	OVP	I	overvoltage protection reference input.
13	HVP	O	half supply voltage output for charging SE capacitor.
14	STABI	I	decoupling of internal stabilizer.
15	VSSP	-	negative power supply voltage.
16	OUT	O	PWM output.
17	BOOT	I	bootstrap capacitor connection.
18	VDDP	-	positive power supply voltage.
19	HVPI	I	half supply voltage output for reference voltage of input circuitry.
20	VSSD	-	negative digital supply voltage; heat spreader.

12. IC705: VHIRM4020++-1

Switching Regurator

Pin No.	Pin Name	I/O	Pin Function
1	Z/C	I	Zero Current Detection Terminal.
2	F/B	I	Feed Back Terminal.
3	GND	-	Ground Terminal.
4	VCC	-	VCC Terminal.
5	Emitter/OCL	O	Emitter/OCL Terminal.
7	VIN	I	VIN Terminal.
8	Collector	I	Collector Terminal.

13. IC704: VHIRM4040++-1

Switching Regurator

Pin No.	Pin Name	I/O	Pin Function
1	Z/C	I	Zero Current Detection Terminal.
2	F/B	I	Feed Back Terminal.
3	GND	-	Ground Terminal.
4	VCC	-	VCC Terminal.
5	Emitter/OCL	O	Emitter/OCL Terminal.
7	VIN	I	VIN Terminal.
8	Collector	I	Collector Terminal.

14. IC701: VHIFA5501AN-1Y

POWER FACTOR CONTROL

Pin No.	Pin Name	I/O	Pin Function
1	FB	I	Input terminal of converter out put valtage.
2	COMP	O	Output terminal of error margin amplifier.
3	MUL	I	Input termianl of sine wave AC power wave form.
4	IS	I	Input terminal to detect current of MOSFET.
5	ZCD	I	Input termial to detect current of inductor returning to 0.
6	GND	-	Power supply ground terminal.
7	OUT	O	Output terminal to drive MOS FET directry.
8	VCC	-	Power supply input terminal to operate IC.

15. IC4001: RH-IXB680WJZZ

DIGITAL-PROCESSOR

Pin No.	Pin Name	I/O	Pin Function	NET NAME
A8,B8,B19,B20,C8, D8,F1-F4,U23,U24, V1-V4,AA23-AA26, AC7,AC15,AD7, AD15,AE7,AE15,AF7,AF15	VDD	-	1.8 V power supply	P1.8V
B22,C3,C4,C10,D3,D4,D10, E4,G25,M1-M4,W23,W24,AC3,AC4,AC10,AC13,AC19,AC23,AC24,AD3,AD4,AD10,AD13,AD19,AD23,,AD24	VDD3	-	3.3 V power supply	P3.3V
AD6	RTCVDD	-	Low power controller 1.8 V power supply	P1.8V
B13,B21,D25,K10-K17,L10-L17,M10-M17,N10-N17,P10-P17,R10-R17,T10-T17,U10-U17	GND	-	Ground for power supplies	GND
C4	Others		Typical load, but the maximum is 75 pF.	
S8	SDRAM/EMI		Typical load, but the maximum is 75 pF.	
S8b	SDRAM/EMI		Typical load, but the maximum is 75 pF.	
E8	EMI (programmable)		Typical load, but the maximum is 75 pF.	
P4	PIO		Typical load, but the maximum is 75 pF.	
AE11	VDDVDACRGB	-	3.3 V power supply for RGB video DAC	VDDDAC
AE9	VDDVDACYCC	-	3.3 V power supply for YCC video DAC	VDDDAC
AD11	GNDVDACRGB	-	Ground for RGB video DAC	GNDDAC
AD9	GNDVDACYCC	-	Ground for YCC video DAC	GNDDAC
AD8	SHIELDVDAC	-	Shield ground for 2 x video DACs	GND A
AE10	IREFDACRGB	-	RGB video DAC current reference	YOUT
AE8	IREFDACYCC	-	YCC video DAC current reference	
AC9	VREFDACRGB	-	RGB video DAC voltage reference	
AC8	VREFDACYCC	-	YCC video DAC voltage reference	
A10	VDDVPLL	-	3.3 V power for video PLL	VDDPLL
C13	VDDAUDIOFSYN	-	1.8 V dedicated power for low jitter audio clock frequency synthesizer	VDDF3
B12	GNDAUDIOFSYN	-	Dedicated ground for low jitter audio clock frequency synthesizer	GNDF3
C12	VDDGENFSYN	-	1.8 V dedicated power for nonaudio clock frequency synthesizer	VDDF3
B11	GNDGENFSYN	-	Dedicated ground for nonaudio clock frequency synthesizer	GNDF3
AA4	VDDAADAC	-	3.3 V power for audio DAC	VDDADCA
AA2	VSSAADAC	-	Ground for audio DAC command switches	GNDA-DAC
Y4	VDDASADAC	-	3.3 V power for audio DAC substrate	VDDA-DAC
AB2	VCCAADAC	-	3.3 V power for audio DAC command switches	VDDA
AB3	GNDAADAC	-	Ground for audio DAC	GNDA-DAC
AC2	VCCASADAC	-	3.3 V power for audio DAC command switches substrate	VDDA
AD2	IREF	I	Audio DAC output reference current	
AE2	VBGFIL	I	Audio DAC filtered output reference voltage	VBGFIL
AF4	LPCLKIN	I	Low power clock input (1.8 V tolerant)	CLOCK IN
AF5	LPCLKOSC	I/O	Low power clock oscillator (1.8 V tolerant)	CLOCK
A16	NO32XTAL1	I	Select for 32 kHz clock source 0: XTAL, 1: Internal divider	TCK
A13	CLK27MA	I	Selectable input clock to PLL or for x1 mode (5 V tolerant)	CLK27MHZ
A11	CLKSPEEDSEL	I	PLL speed select (5 V tolerant)	
A12	AUXCLKOUT	O	Auxiliary clock for general use (5 V tolerant)	
AF6	notRESET	I	System reset (1.8 V tolerant)	SYSRE-SET
AD14	notWDOGRSTOUT	O	Internal watchdog timer reset (5 V tolerant)	
AE14	TDI	I	Boundary scan test data input (5 V tolerant)	TDI
AC14	TMS	I	Boundary scan test mode select (5 V tolerant)	TMS

AF16	TCK	I	Boundary scan test clock (5 V tolerant)	TCK
AF14	notTRST	I	Boundary scan test logic reset (5 V tolerant)	NOT-TRST
AE13	TDO	O	Boundary scan test data output (5 V tolerant)	TDO
P1	DCUTRIGGERIN	I	External trigger input to DCU (5 V tolerant)	TRIGIN
P3	DCUTRIGGEROUT	O	Signal to trigger external debug circuitry (5 V tolerant)	TRIGOUT
C23	TSIN2LBYTECLK	I/O	Transport stream bit clock (5 V tolerant)	TS2CLK
C22	TSIN2LBYTECLKVALID	I/O	Transport stream bit clock valid edge (5 V tolerant)	TS2VAL
B23	TSIN2LERROR	I/O	Transport stream packet error (5 V tolerant)	
D19	TSIN2LPACKETCLK	I/O	Transport stream packet strobe (5 V tolerant)	TS2STRT
B18,C18,D18,C19,C20,D20,C21,D21	TSIN2LDATA[7:0]	I/O	Transport stream data (5 V tolerant)	TS2D[7:0]
P23	TSIN1BYTECLK	I	Transport stream bit/byte clock (5 V tolerant)	FECLK
M24	TSIN1BYTECLKVALID	I	Transport stream bit/byte clock valid edge (5 V tolerant)	FEVALID
M26	TSIN1ERROR	I	Transport stream packet error (5 V tolerant)	FEER-ROR
N26	TSIN1PACKETCLK	I	Transport stream packet strobe (5 V tolerant)	FES-TROUT
K26,J25,H24,J24,L26,L25,L24,M23	TSIN1DATA[7:0]	I	Transport stream data in (5 V tolerant)	FED[7:0]
L3	notEMIRAS or notCI_IORD1	O	Row address strobe for SDRAM	EMIRAS
K1	not_EMICAS or not_CI_IOW1	O	Column address strobe for SDRAM	EMICAS
J1	notEMICSA	O	Peripheral chip select A	EMICSO
K3	notEMICSB	O	Peripheral chip select B	
K2	notEMICSC	O	Peripheral chip select C	
N4	notEMICSD	O	Peripheral chip select D	EMICS3
J2	notEMICSE	O	Peripheral chip select E	
L2	notEMICSF	O	Peripheral chip select F	EMICS5
L1, N3	notEMIBE[1:0]	O	External device data bus byte enable. 1 bit per byte of the data bus.	EMIBE1, EMIRAS
N1	notEMIOE or not_CI_OE	O	External device output enable.	EMIOE
N2	notEMILBA or notCI_Wea	O	Flash device load burst address.	EMILBA
P4	EMIWAITnot-TREADY	I	External memory device target ready indicator (5 V tolerant)	CPUWAIT
P2	EMIRDnotWR	O	External read/write access indicator. Common to all devices.	EMIRW
H3,H2,G2,H4,G4,E2,E1,E3,H1,D1,D2,C2,G3,C1,B1,A1	EMIDATA[15:0]	I/O	External common data bus.	EMID[15-0]
D5,C5,D6,B3,A2,B2,A3,B4,A4,C6,B5,A5,D7,C7,B6,A6,B7,A7,D9,C9,B9,A9,B10,C11	EMIADDR[25:2]	O	External common address bus	EMIA[23-2] (D5,C5=NC)
J3	notEMIREQGNT	O	Bus request/grant indicator	NC
K4	notEMIACKREQ	I	Bus grant/request indicator (5 V tolerant)	
L4	EMIBOOTMODE0	I	External power-up port size indicator (5 V tolerant)	
G1	EMISDRAMCLK	O	SDRAM clock	EMICLK
J4	EMIFLASHCLK	O	Peripheral clock	NC
W1,U4,U2,U1,R2,R1,T2,T1	PIO0[7:0]	I/O	Parallel input/output pin or alternative function (5 V tolerant) (U1:MUTE,R2:VIDEOOFF,R1:MDMRESET,T2:FERESET,T1:CIRESET)	
AB4,Y2,AA1,Y1,W3,U3,W2,W4	PIO1[7:0]	I/O	(W2:TVRX,W4:TVTX)	
AF3,AD5,AE3,AE5,AF2,Y3,AA3,AF1	PIO2[7:0]	I/O	(AF3:ASPECT,AD5:IRQ,AA3:GPIO1,AF1:GPIO0)	
AE18,AE4,AC16,AC12,AE6,AC11,AC5,AE12	PIO3[7:0]	I/O	(AE6:TVSCL,AC11:TVSDA,AC5:I2CSCL,AE12:I2CSDA)	
AE20,AD20,AF20,AE19,AC17,AD18,AD17,AF19	PIO4[7:0]	I/O	(AE20:27MHzPWM,)	
AC22,AF22,AD21,AC21,AE21,AC18,AC20,AF21,	PIO5[7:0]	I/O	(AD21:RXD,AC21:TXD,AF21:IR)	
AF17	SCLK	O	Serial clock (5 V tolerant)	NC
AE17	PCMDATA1	O	PCM data out (5 V tolerant)	NC
AE16	PCMCLK	I/O	External PCM clock input or internal PCM clock output (5 V tolerant)	NC

AF18	LRCLK	O	Left/right clock (5 V tolerant)	TL4027
AD16	SPDIF	O	Digital audio output (5 V tolerant)	SPDIF
AD26,AB25,AB24,AC25,AE26,AB23,AE25,AF26,AD25,AF25,AE24,AF24,AF23,AE23	SMIADDR[13:0]	O	SDRAM address bus	SMIA[13-0]
U26,U25,R23,V26,V25,T23,V24,V23,W26,W25,Y25,Y26,Y23,AB26,Y24,AC26	SMIDATA[15:0]	I/O	SDRAM data bus	SMID[15-0]
T24	notSMICS0	O	SDRAM chip select for 1st SDRAM	SMICS
T25	notSMICS1	O	SDRAM chip select for 2nd 16 Mbit SDRAM	
T26	notSMICAS	O	SDRAM column address strobe	SMICAS
R24	notSMIRAS	O	SDRAM row address strobe	SMIRAS
R25	notSMIWE	O	SDRAM write enable	SMIWE
P26	SMIMEMCLKIN	I	SDRAM memory clock input	
R26	SMIMEMCLKOUT	O	SDRAM memory clock output	SMICLK
P24	SMIDATAML	O	SDRAM data bus lower byte enable	SMIDQML
P25	SMIDATAMU	O	SDRAM data bus upper byte enable	SMIDQMI
B15,A15,D16,C16,B16,B17,C17,D17	P1284DATA[7:0]	I/O	1284 AV data (5 V tolerant)	NC
C15	notP1284SELECTIN	I/O	1284 AV control signals (5 V tolerant)	NC
D15	notP1284INIT	I/O		NC
A14	notP1284FAULT	I/O		NC
B14	notP1284AUTOFD	I/O		NC
C14	P1284SELECT	I/O		NC
D14	P1284PERROR	I/O		NC
D13	P1284BUSY	I/O		NC
D12	notP1284ACK	I/O		NC
D11	notP1284STROBE	I/O		NC
T4, R4, T3,R3	INTERRUPT[3:0]	I/O	External interrupts (5 V tolerant)	MODEMIRQ, TL4003, CIIRQ1, CIIRQ0
AE1	OUTPLEFT	O	Left channel, differential positive current output	LEFTP
AC1	OUTMLEFT	O	Left channel, differential negative current output	LEFTM
AD1	OUTPRIGHT	O	Right channel, differential positive current output	RIGHTP
AB1	OUTMRIGHT	O	Right channel, differential negative current output	RIGHTM
AF12	ROUT	O	Red output	R
AF11	GOUT	O	Green output	G
AF13	BOUT	O	Blue output	B
AF8	COUT	O	Chroma output	COUT
AF9	CVOUT	O	Composite video output	CVBS
AF10	YOUT	O	Luma output	YOUT
AD22	notHSYNC	I/O	Horizontal sync (5 V tolerant)	NC
AE22	EVENnotODD	I/O	Vertical sync (5 V tolerant)	TL4016

16. IC4201/4202: RH-IXB742WJZZQ

64Mb- SDRAM

Pin No.	Pin Name	I/O	Pin Function
38	CLK	I	Active on the positive going edge to sample all inputs.
19	$\overline{CS}$	I	Disables or enables device operation by masking or enabling all inputs except CLK,CKE and DQM.
37	CKE	I	Masks system clock to freeze operation from the next clock cycle. CKE should be enabled at least one cycle prior to new command. Disable input buffers for power down in standby.
22-26, 29-35	A0-A11	I	Row/column addresses are multiplexed on the same pins. Row address: RA0-RA11, Column address: CA0-CA8
20, 21	BA0-BA1	I	Selects bank to be activated during row address latch time. Selects bank for read/write during column address latch time.
18	$\overline{RAS}$	I	Latches row address on the positive going edge of the CLK with $\overline{RAS}$ low. Eanbles row acccess <FmSdata>[amp] precharge.
17	$\overline{CAS}$	I	Latches column addresses on the positive going edge of the CLK with $\overline{CAS}$ low. Enables column access.
16	$\overline{WE}$	I	Enables write operation and row precharge. Latches data in starting from $\overline{CAS}$, $\overline{WE}$ active.
15,39	DQM	I/O	Makes data output Hi-Z, tsHZ after the clock and masks the output. Blocks data input when DQM active.
2,4,5,7,8,10,11,13,42,44,45, 47,48,50,51,53	DQ0-X15	I/O	Data input/output are mutiplexed on the same pins (X16;DQ0-15)
1,14,27,28,41,54	VDD/VSS	---	Power and ground for the input buffers and the core logic.
3,6,9,12,43,46,49,52,	VDDQ/VSSQ	---	Lsolated power supply and ground for the output buffers to provide improved noise immunity.
40	N.C/RFU	---	This pin is recommended to be left No Connection on the device.

17. IC4203: RH-IXB921WJZZ

16Mbit Flash Memory

Pin No.	Pin Name	I/O	Pin Function
1-10, 16-25, 48,13	A2-A22	I	22 Address Input.
29,31,33,35,38,40,42,44	DQ0-DQ7	I/O	8 Data Input/Output.
30,32,34, 36,39,41,43	DQ8-DQ14	I/O	Data Input/Output.
45	DQ15A-1	I/O	Data Input/Output or Address Input.
26	$\overline{E}$	I	Chip Enable.
28	$\overline{G}$	O	Output Enable
11	$\overline{W}$	I	Write Enable.
12	$\overline{RP}$	I	Reset/Block Temporary Unprotect
15	$\overline{RB}$	O	Read/Busy Output.
47	$\overline{BYTE}$	I	Byte/Word Organization Select.
37	Vcc	-	Supply Voltage.
27,46	Vss	-	Ground.
	N.C.	-	Not Connected Internally.

18. IC4402: VHILVC573AP-1Y

Lutch 3-State output

Pin No.	Pin Name	I/O	Pin Function
1	$\overline{OE}$	I	Output Enable.
2	1D	I	Data Input 1D.
3	2D	I	Data Input 2D.
4	3D	I	Data Input 3D.
5	4D	I	Data Input 4D.
6	5D	I	Data Input 5D.
7	6D	I	Data Input 6D.
8	7D	I	Data Input 7D.
9	8D	I	Data Input 8D.
10	GND	-	Ground.
11	LE	I	Limited Enable.
12	8Q	O	Data Output 8Q.
13	7Q	O	Data Output 7Q.
14	6Q	O	Data Output 6Q.
15	5Q	O	Data Output 5Q.
16	4Q	O	Data Output 4Q.
17	3Q	O	Data Output 3Q.
18	2Q	O	Data Output 2Q.
19	1Q	O	Data Output 1Q.
20	VCC	-	Power Source.

19. IC4401: VHITCLCX245-2Y

Interactive Balance Tranceiver

Pin No.	Pin Name	I/O	Pin Function
1	DIR	I	Directory.
2	A1	I/O	A-Bus. Output/Input Terminal A1.
3	A2	I/O	A-Bus. Output/Input Terminal A2.
4	A3	I/O	A-Bus. Output/Input Terminal A3.
5	A4	I/O	A-Bus. Output/Input Terminal A4.
6	A5	I/O	A-Bus. Output/Input Terminal A5.
7	A6	I/O	A-Bus. Output/Input Terminal A6.
8	A7	I/O	A-Bus. Output/Input Terminal A7.
9	A8	I/O	A-Bus. Output/Input Terminal A8.
10	GND	-	Ground A9
11	B8	I/O	B-Bus Input/Output Terminal B8.
12	B7	I/O	B-Bus Input/Output Terminal B7.
13	B6	I/O	B-Bus Input/Output Terminal B6.
14	B5	I/O	B-Bus Input/Output Terminal B5
15	B4	I/O	B-Bus Input/Output Terminal B4
16	B3	I/O	B-Bus Input/Output Terminal B3
17	B2	I/O	B-Bus Input/Output Terminal B2
18	B1	I/O	B-Bus Input/Output Terminal B1
19	$\overline{OE}$	I	Output enable.
20	VCC	-	Power Source.

20. IC4404: VHILCX244MT-1Y

Buffer/Line Driver

Pin No.	Pin Name	I/O	Pin Function
1, 19	OE1,OE2	I	3-STATE Output Enable Input 1 and 2
2, 4, 6, 8, 11, 13, 15, 17	I0-I7	I	Data Inputs 0-7
9, 7, 5, 3, 12, 14, 16, 18	O0-O7	O	Data Outputs 0-7
10	GND	-	Ground.
20	VCC	-	Power Source.

21. IC4604: VHITSH73CPT-1Y

*3-OP-AMP

Pin No.	Pin Name	I/O	Pin Function
1	$\overline{\text{STB1}}$	I	Standby Input Terminal1.
2	$\overline{\text{STB2}}$	I	Standby Input Terminal2.
3	$\overline{\text{STB3}}$	I	Standby Input Terminal3.
4	VCC	-	Power Source.
5	+IN1	I	Non Inverting Input1.
6	-IN1	I	Invreting Input1.
7	OUT1	O	Output1.
8	OUT2	O	Output2.
9	-IN2	I	Inverting Input2.
10	+IN2	I	Non Inverting Input2.
11	VCC	-	Power Source.
12	+IN3	I	Non Inverting Input3.
13	-IN3	I	Inverting Input3.
14	OUT3	O	Out put3.

22. IC202: RH-IXB682WJZZQ

CDFDM DEMODURATOR

Pin No.	Pin Name	I/O	Pin Function
12	$\overline{\text{RESET}}$	I	Hardware reset,active low.
62	XTALI	I	Crystal oscillator input/external clock(1.8V).
63	XTALO	O	Crystal oscillator output.
61	VCCXTAL1.8	-	Analog oscillator supply(1.8V)
64	GNDXTAL	-	Analog oscilltor ground.
2	DVCCA1.8	-	Analog part digital supply(1.8V)
5	REFM	I	Internal negative reference.
6	REFP	I	Internal positive reference.
3	VCCA1.8	-	Analog supply(1.8V).
9	INM	I	Negative analog input.
10	INP	I	Positive analog input.
4,11	GNDA	-	Analog ground.
1	DGNDA	-	Analog ground.
7	VR	I	Reference.
8	VCCA3.3	-	Analog supply(3.3V)
21	SDA	I/O	Serial data(open drain)
20	SCL	I	Serial clock(open drain)
19	SDAT	I/O	SDA tuner(open drain)
18	SCLT	I	
25,26,27,29,31,32,33,34	D7/0	O	Serial D7,MPEG data.
36	CLK_OUT	O	MPEG byte or bit clock.
23	STR_OUT	O	MPEG first byte sync.
38	D/$\overline{\text{P}}$	O	MPEG data valid/parity.
40	ERROR	O	MPEG packet error.
51	HFECO	O	Hierarchical FEC output bit 0.
50	CCLK/HFC1	O	Hierarchical FEC output bit 1 or clock for constellation display.
49	CDATA/HFC2	O	Hierarchical FEC output bit 2 or data for constellation display.
48	CIQ/HFEC3	O	Hierarchical FEC output bit 3 or IQ validation for constellation display.
16	AGC1	I/O	RF AGC control Σ △
14	AGC2	I/O	IF AGC control Σ △
17,60	TEST	-	Reserved test mode,must be ground.
58	IP0	I	General-purpose input port0 and ADC input for RF level monitoring
45	OP0	I/O	General-purpose output port0
43	LOCK/OP1	I/O	General-purpose output port1 or lock indicator.
42	LOCK/OP2	O	general-purpose output port2 or lock indicator.
47	AUX_CLK	I/O	Auxiliary clock.
55	CS0	I	Chip select LSB.
53	CS1	I	Chip select MSB.
13,28,39,57	VDD	-	Digital core supply.
22,35,44,52	VDD_3.3	-	Digital IO supply.
15,24,30,37,41,46,54,56,59	GND	-	

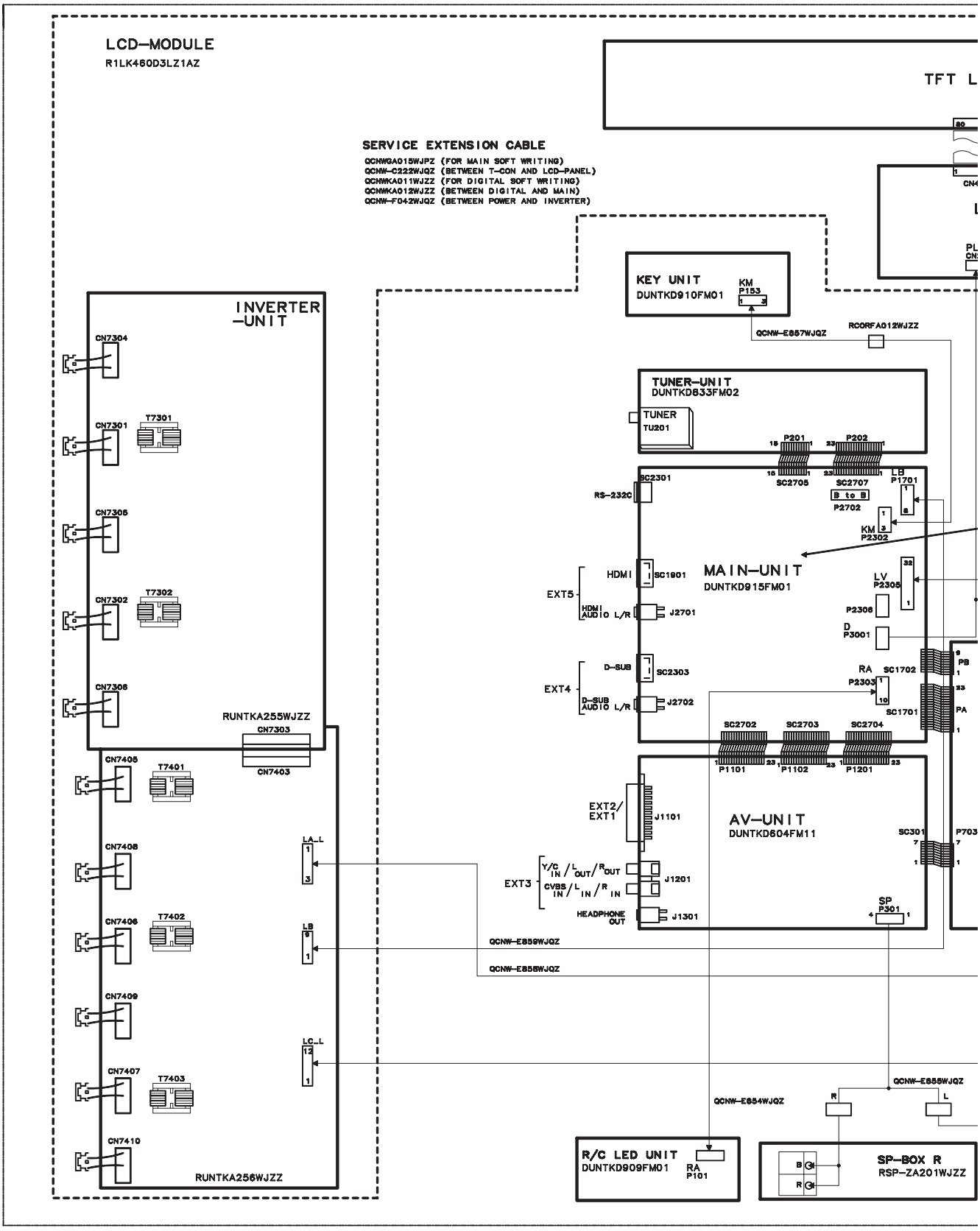
1. All input are 3.3V compatible
2. All bidirectional pads 3.3V capable
3. All output are 3.3V capable.

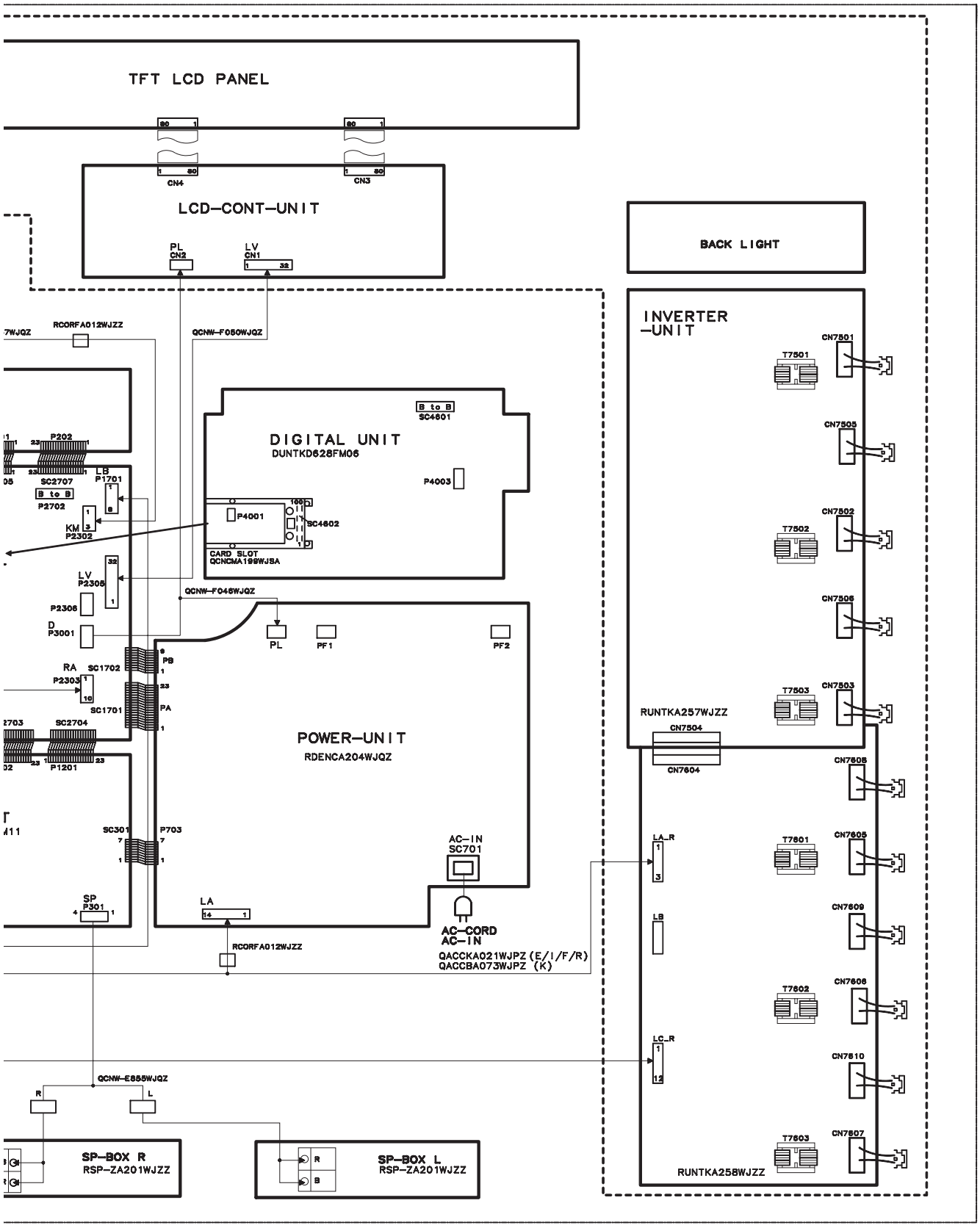
CHAPTER 8. OVERALL WIRING/BLOCK DIAGRAM

[1] OVERALL WIRING DIAGRAM

1. LC-46XD1E/RU

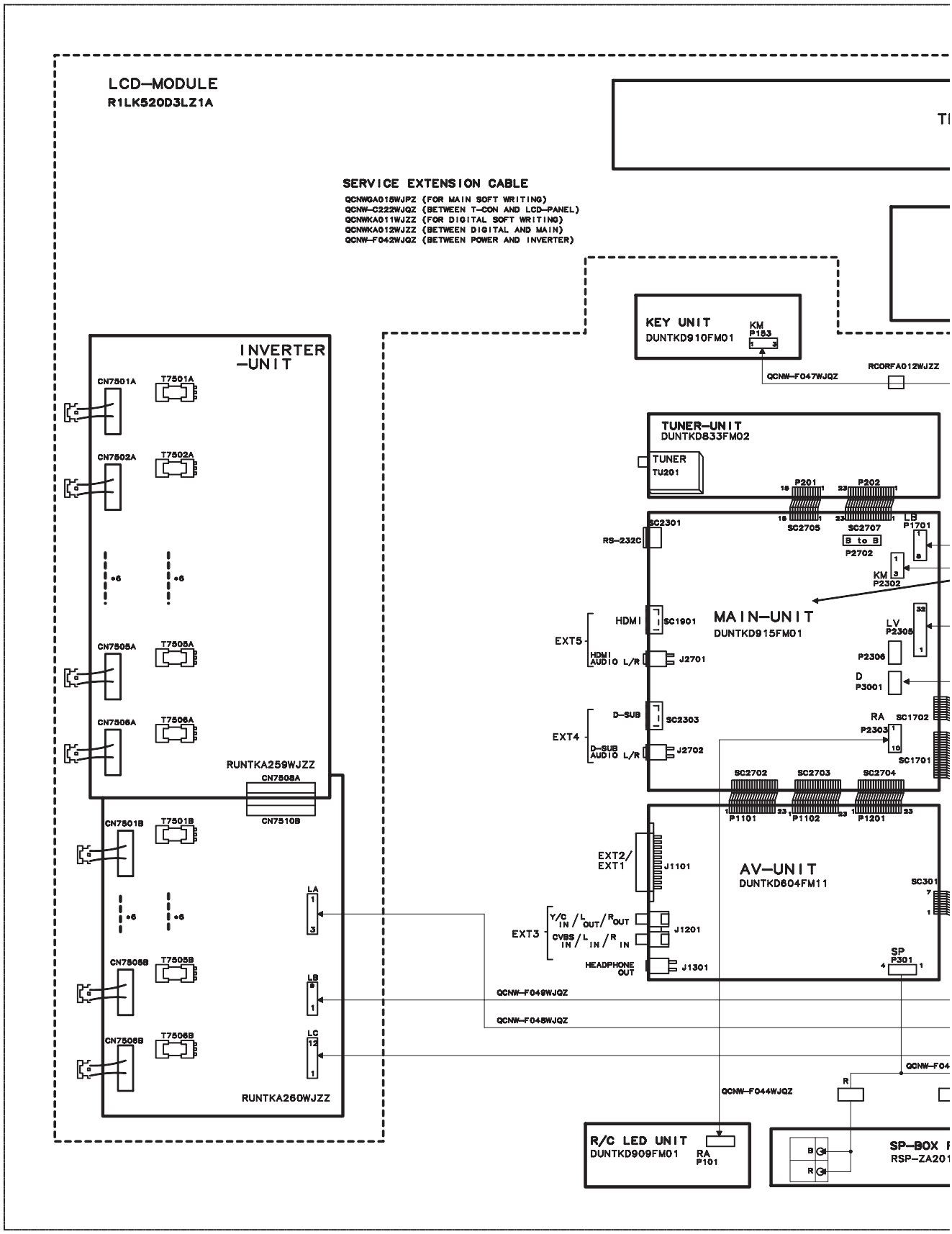
LC46XD1E/K/F/I/RU WIRING DIAGRAM

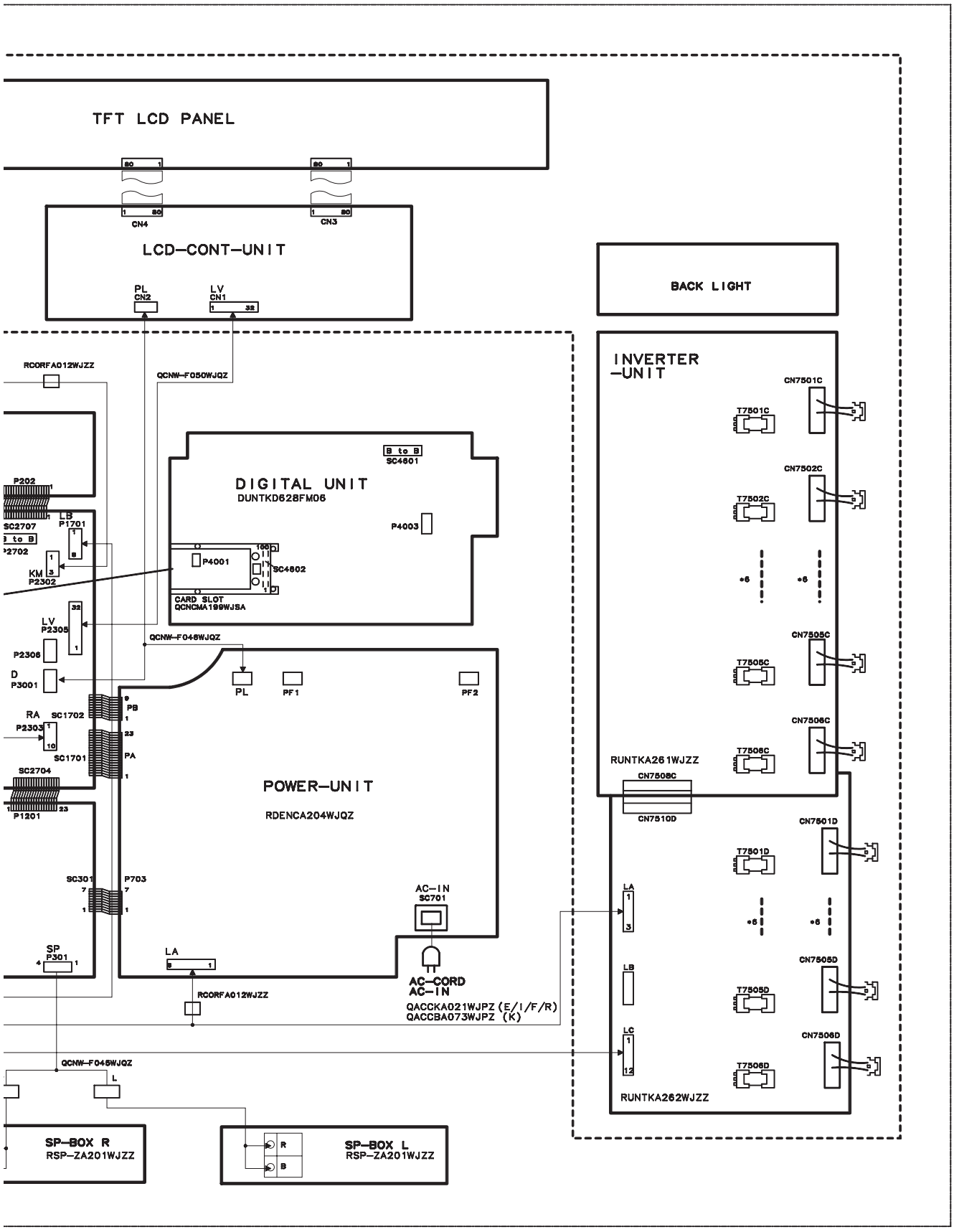



TFT LCD PANEL
CN4
CN3
LCD–CONT–UNIT
PL
CN2
LV
CN1
BACK LIGHT
INVERTER
–UNIT
RCORFA012WJZZ
QCNW–F050WJQZ
DIGITAL UNIT
DUNTKD528FM06
B to B
SC4601
P4003
P4001
SC4602
CARD SLOT
QCNCMA196WJSA
P202
SC2707
LB
P1701
B to B
P2702
KM
P2302
LV
P2305
P2308
QCNW–F046WJQZ
D
P3001
PL
PF1
PF2
RA
SC1702
P2303
SC1701
PB
PA
SC2704
P1201
POWER–UNIT
RDENCA204WJQZ
SC301
P703
AC–IN
SC701
SP
P301
LA
RCORFA012WJZZ
AC–CORD
AC–IN
QACCKA021WJPZ (E/I/F/R)
QACCBA073WJPZ (K)
QCNW–E855WJQZ
R
L
SP–BOX R
RSP–ZA201WJZZ
SP–BOX L
RSP–ZA201WJZZ
T7501
CN7501
CN7505
T7502
CN7502
CN7506
T7503
CN7503
RUNTKA257WJZZ
CN7504
CN7604
CN7605
T7601
LA_R
LB
CN7609
T7602
CN7606
LC_R
CN7610
T7603
CN7607
RUNTKA258WJZZ

2. LC-52XD1E/RU

LC52XD1E/K/F/I/RU WIRING DIAGRAM

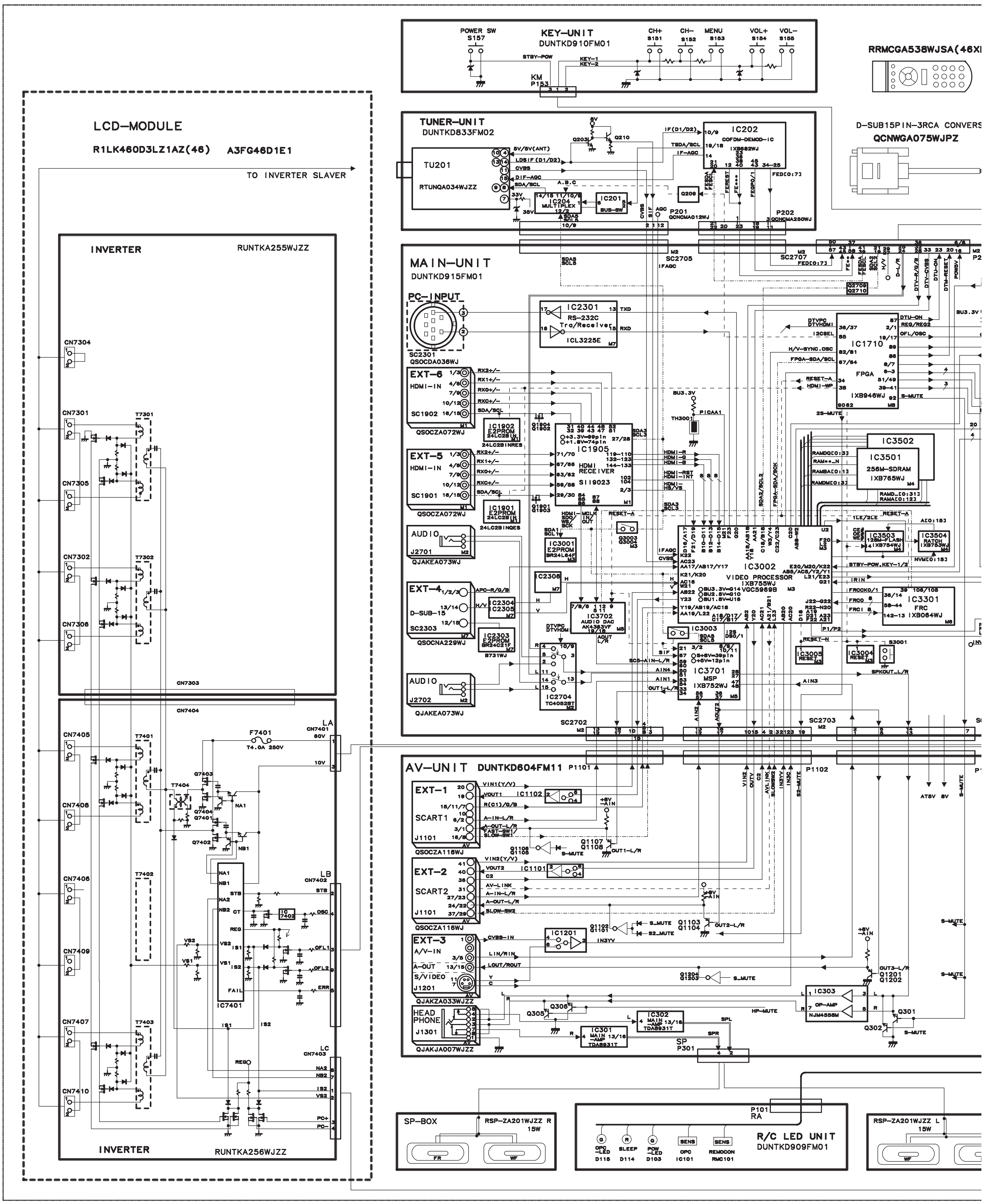


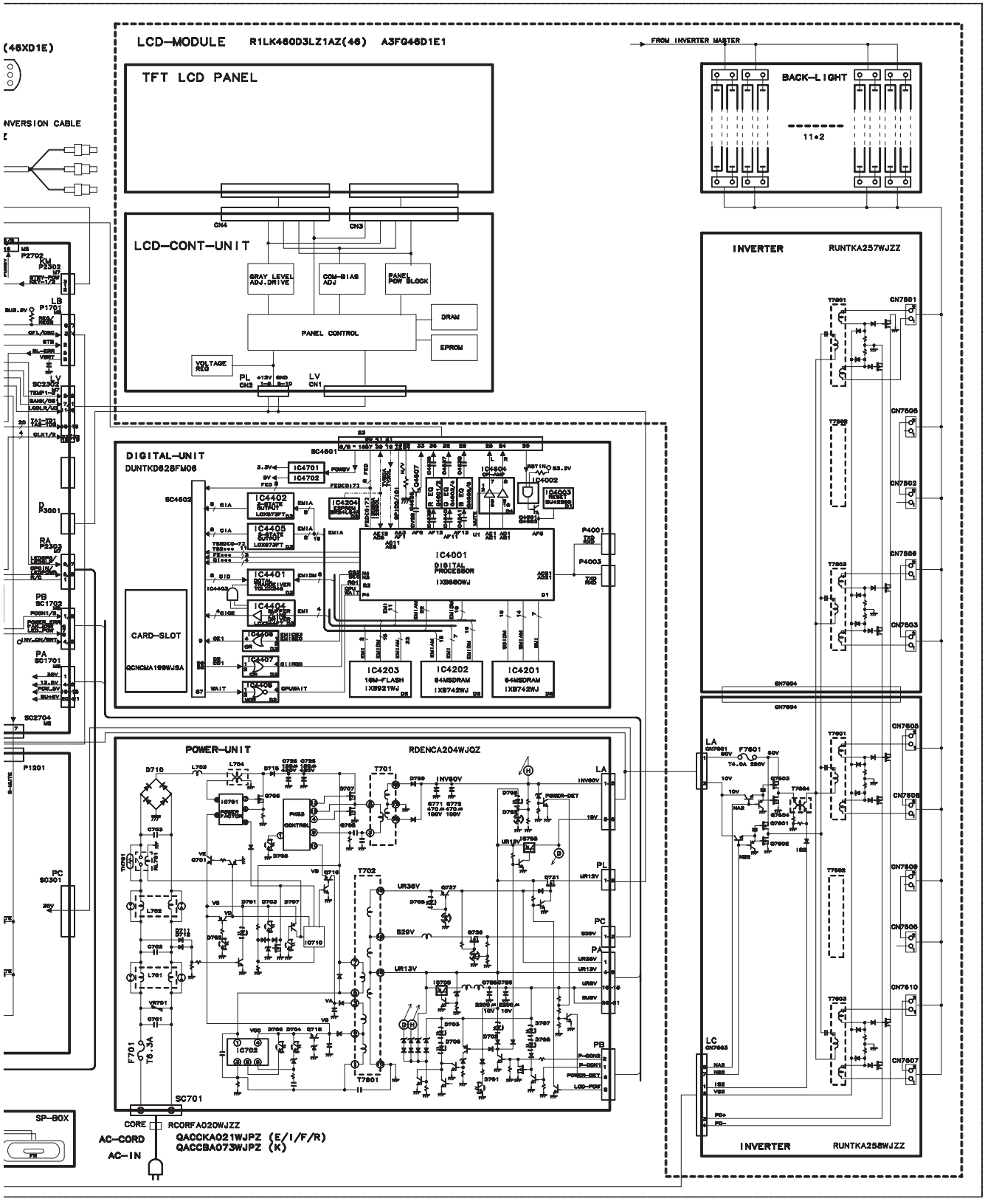

TFT LCD PANEL
CN4
CN3
LCD–CONT–UNIT
PL
CN2
LV
CN1
BACK LIGHT
INVERTER
–UNIT
CN7501C
T7501C
CN7502C
T7502C
CN7505C
T7505C
CN7506C
T7506C
RUNTKA261WJZZ
CN7508C
CN7510D
CN7501D
T7501D
CN7505D
T7505D
CN7506D
T7506D
RUNTKA262WJZZ
RCORFA012WJZZ
QCNW–F050WJQZ
B to B
SC4601
DIGITAL UNIT
DUNTKD628FM06
P4003
P4001
SC4602
CARD SLOT
QCNCMA199WJSA
P202
SC2707
LB
P1701
P2702
KM
P2302
LV
P2305
P2306
D
P3001
QCNW–F046WJQZ
PL
PF1
PF2
RA
SC1702
P2303
SC1701
SC2704
P1201
PB
PA
POWER–UNIT
RDENCA204WJQZ
SC301
P703
SP
P301
LA
AC–IN
SC701
AC–CORD
AC–IN
QACCKA021WJPZ (E/I/F/R)
QACCBA073WJPZ (K)
RCORFA012WJZZ
QCNW–F046WJQZ
L
SP–BOX R
RSP–ZA201WJZZ
R
B
SP–BOX L
RSP–ZA201WJZZ

[2] SYSTEM BLOCK DIAGRAM

1. LC-46XD1E/RU

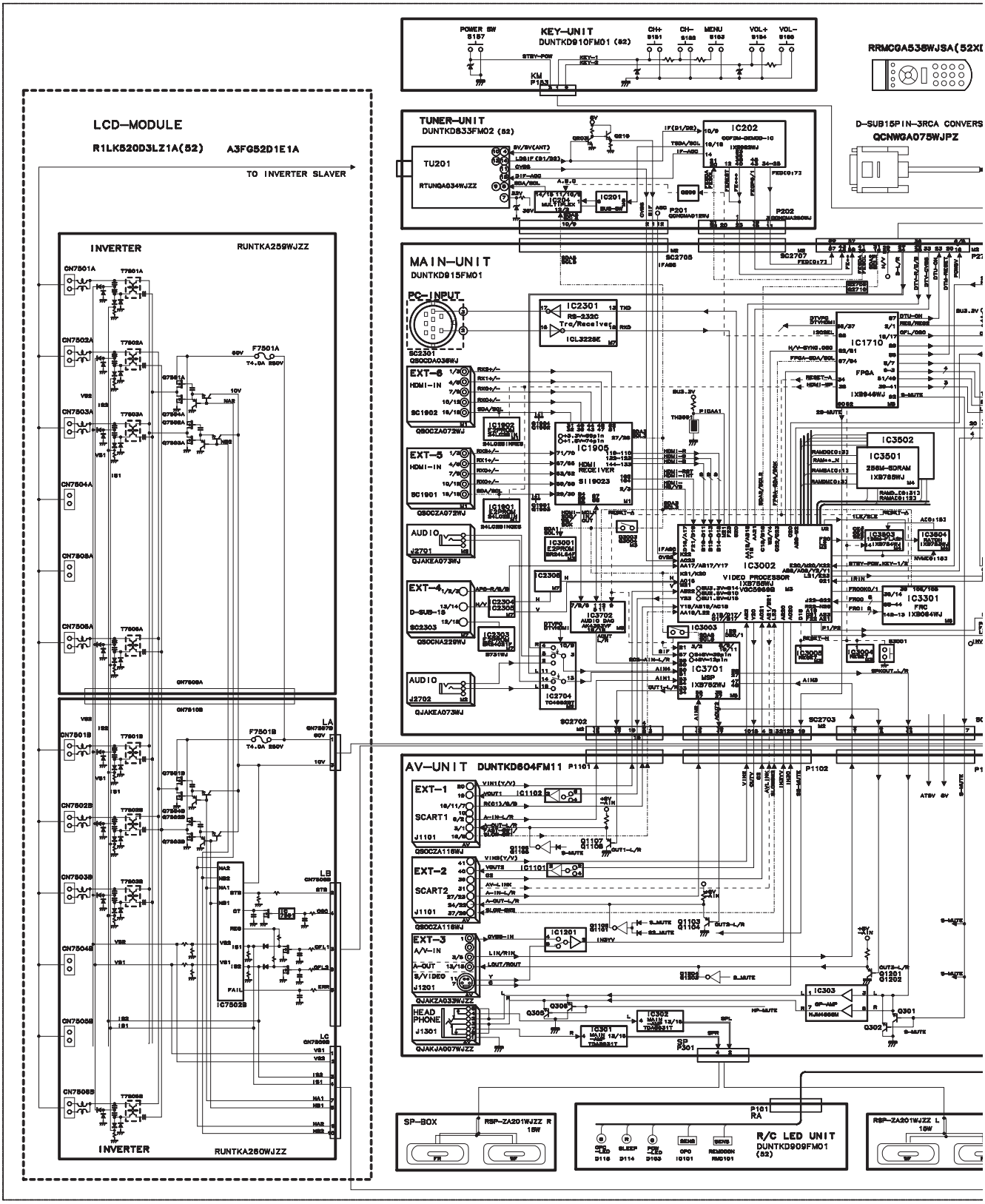
46XD1E/K/F/I/R BLOCK DIAGRAM

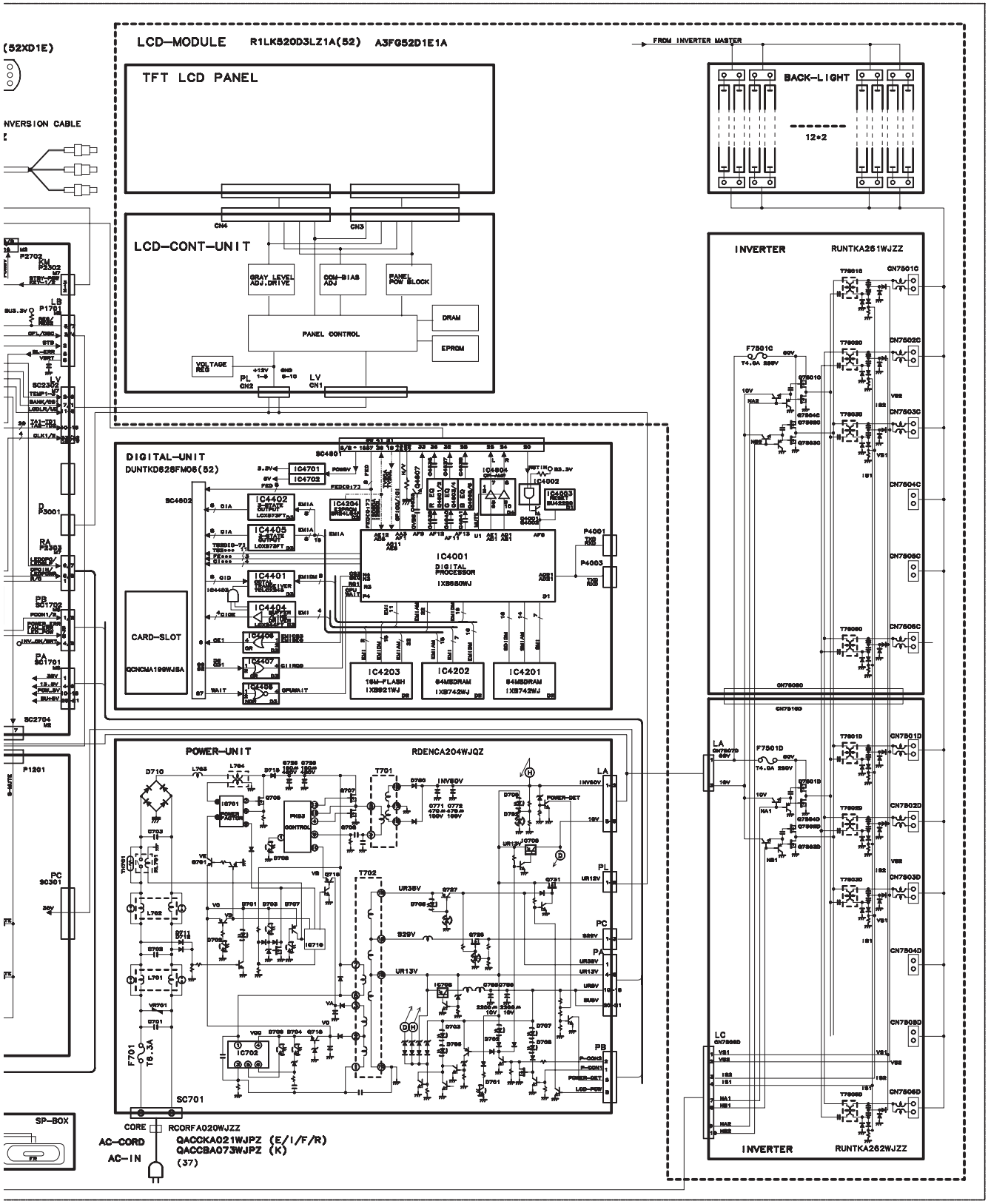



LCD–MODULE R1LK460D3LZ1AZ(46) A3FG46D1E1
TFT LCD PANEL
LCD–CONT–UNIT
GRAY LEVEL ADJ.DRIVE
COM–BIAS ADJ
PANEL POW BLOCK
PANEL CONTROL
DRAM
EPROM
VOLTAGE REG
FROM INVERTER MASTER
BACK–LIGHT
11×2
INVERTER RUNTKA257WJZZ
DIGITAL–UNIT
DUNTKD628FM06
IC4001
DIGITAL PROCESSOR
IXB580WJ
IC4203
16M–FLASH
IXB921WJ
IC4202
64MSDRAM
IXB742WJ
IC4201
64MSDRAM
IXB742WJ
CARD–SLOT
QCNCMA199WJSA
POWER–UNIT
RDENCA204WJQZ
INVERTER RUNTKA258WJZZ
SP–BOX
SC701
CORE
RCORFA020WJZZ
AC–CORD
AC–IN
QACCKA021WJPZ (E/I/F/R)
QACCBA073WJPZ (K)

2. LC-52XD1E/RU

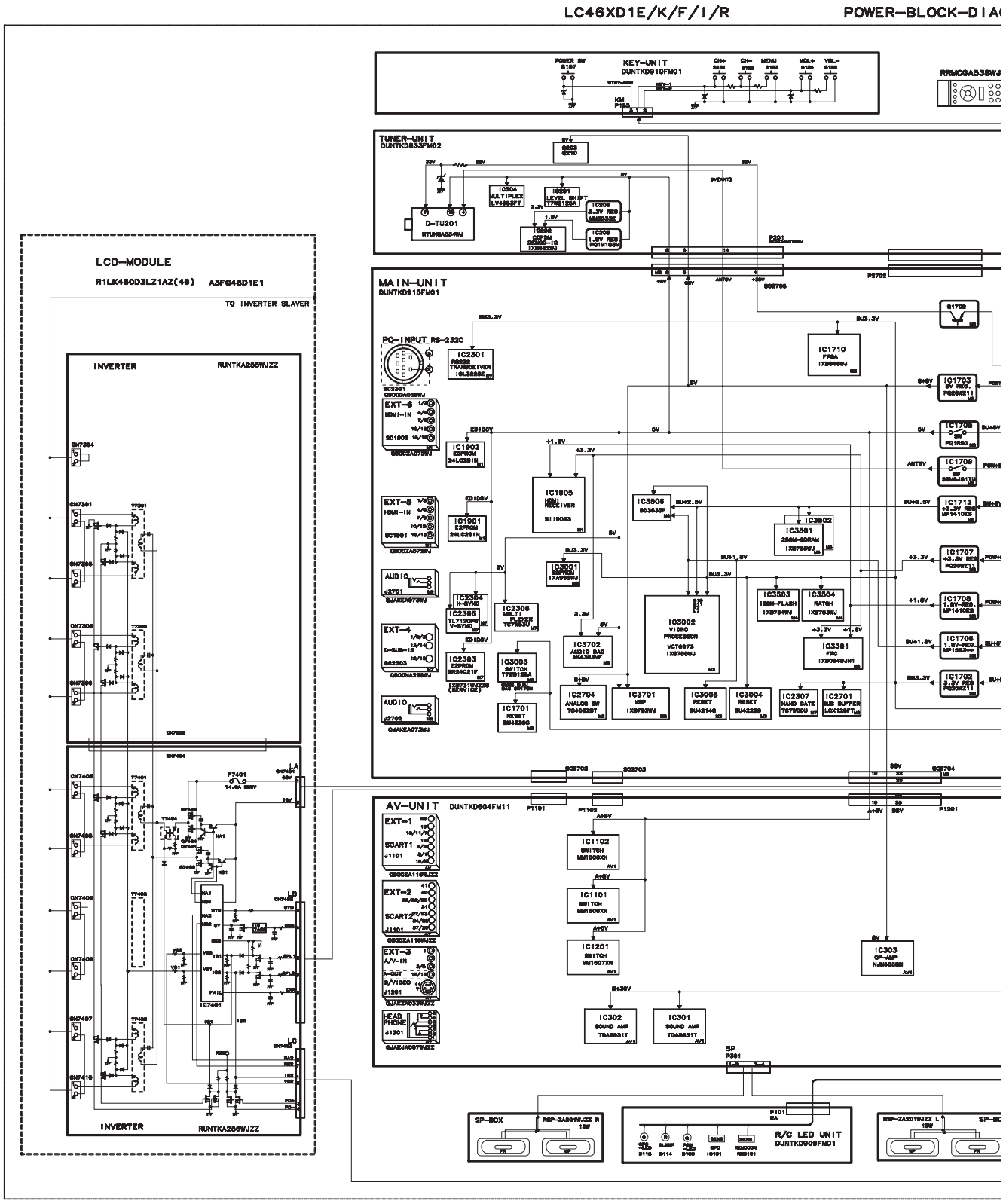
52XD1E/K/F/I/R BLOCK DIAGRAM



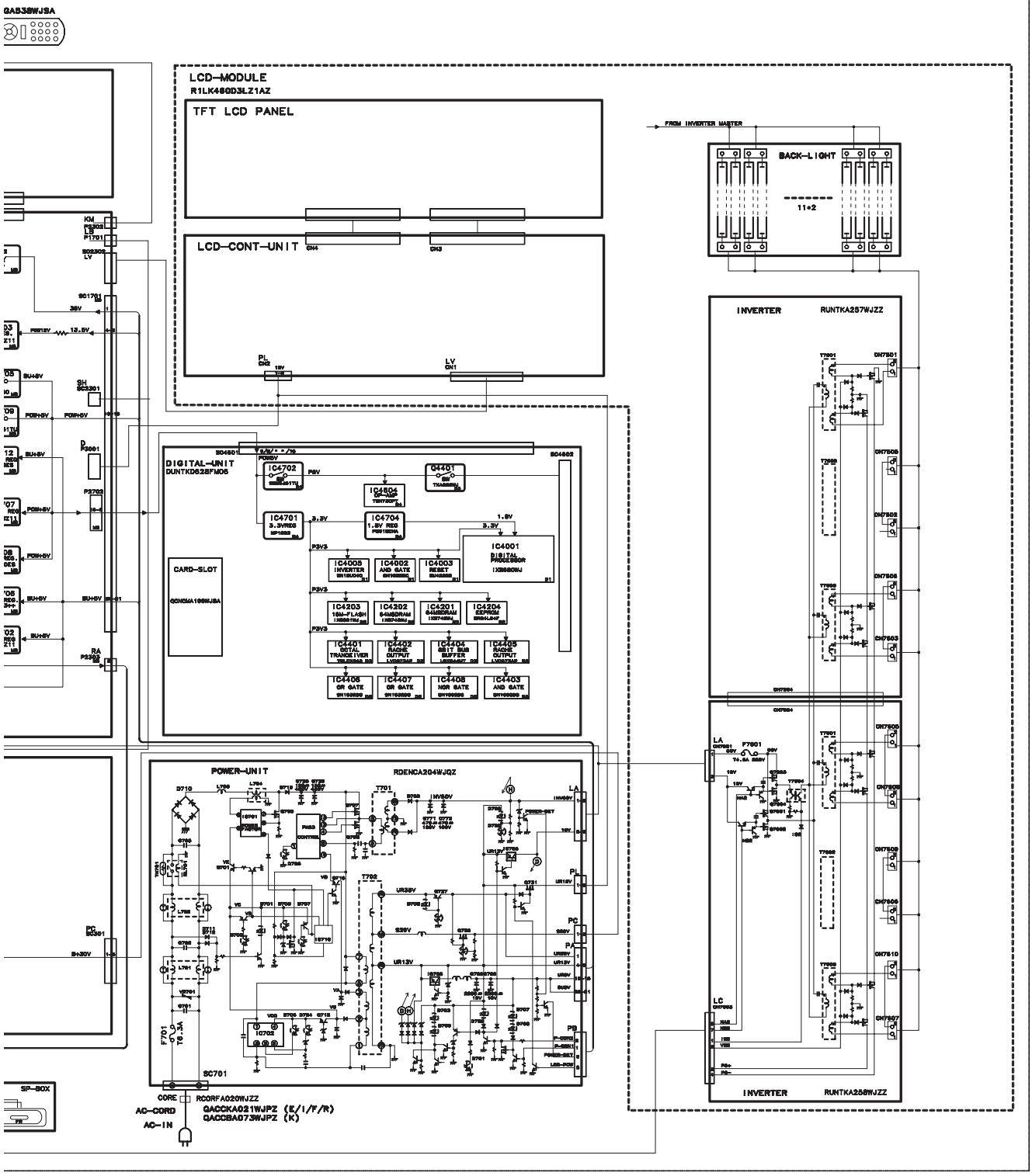

LCD–MODULE R1LK520D3LZ1A(52) A3FG52D1E1A
TFT LCD PANEL
LCD–CONT–UNIT
GRAY LEVEL ADJ.DRIVE
COM–BIAS ADJ
PANEL POW BLOCK
PANEL CONTROL
DRAM
EPROM
VOLTAGE REG
FROM INVERTER MASTER
BACK–LIGHT
12×2
INVERTER
RUNTKA261WJZZ
INVERTER
RUNTKA262WJZZ
DIGITAL–UNIT
DUNTKD828FM05(52)
IC4001
DIGITAL PROCESSOR
IXB850WJ
IC4203
16M–FLASH
IXB921WJ
IC4202
64MSDRAM
IXB742WJ
IC4201
64MSDRAM
IXB742WJ
CARD–SLOT
QCNCMA199WJSA
POWER–UNIT
RDENCA204WJQZ
SP–BOX
CORE
RCORFA020WJZZ
AC–CORD
QACCKA021WJPZ (E/I/F/R)
AC–IN
QACCBA073WJPZ (K)
(37)

[3] POWER BLOCK DIAGRAM

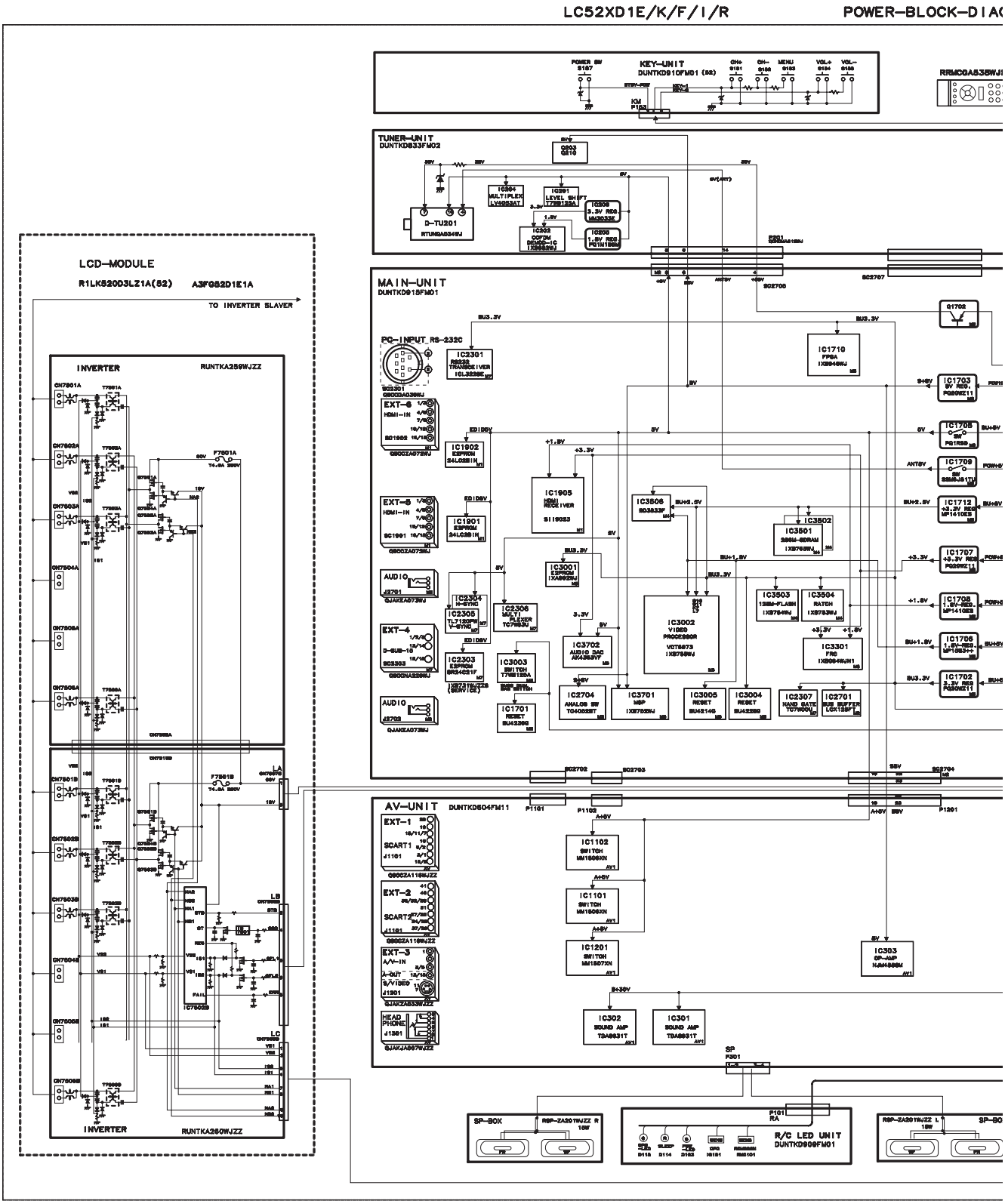
1. LC-46XD1E/RU



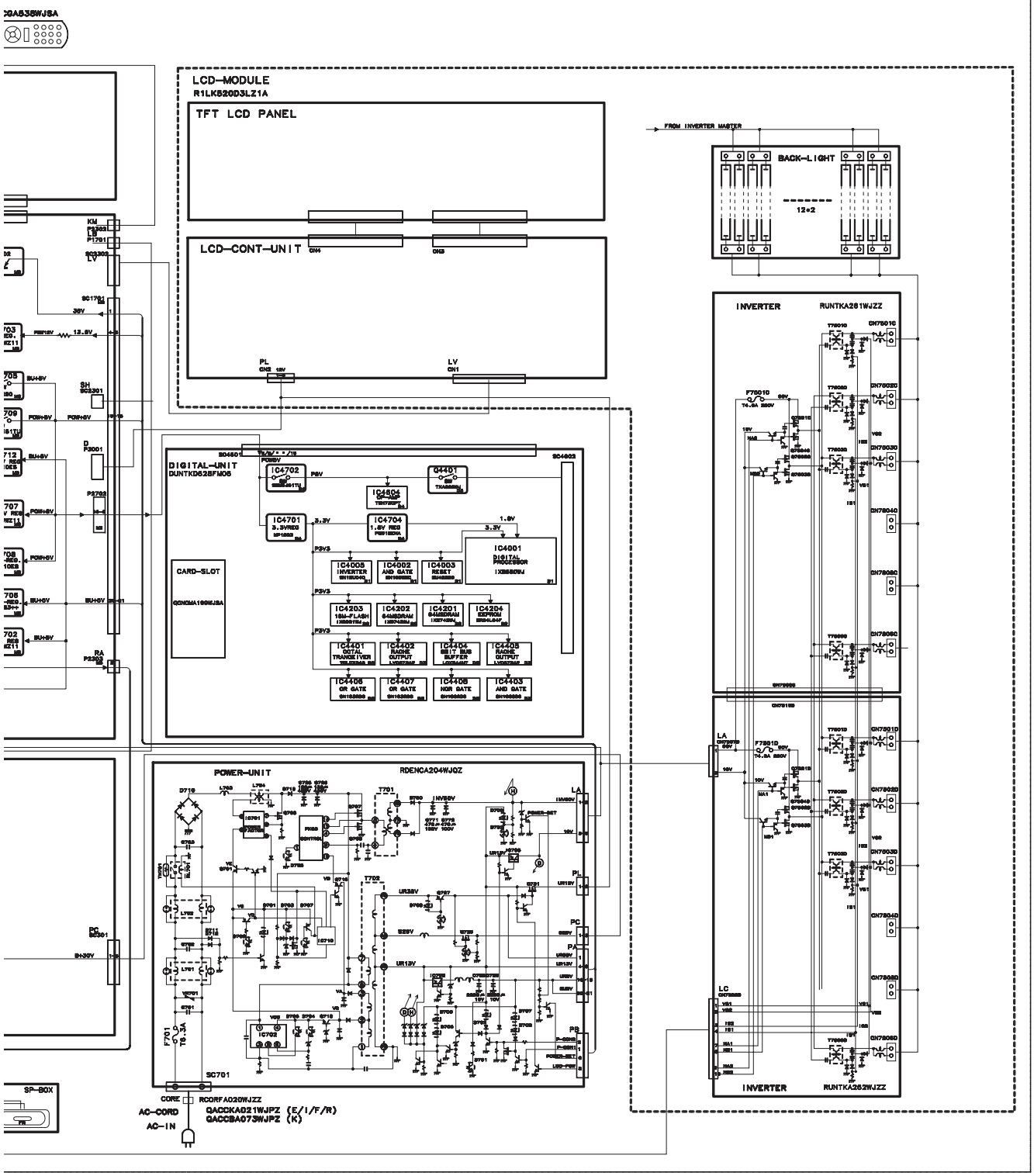
-DIAGRAM


QAB38WJSA
LCD–MODULE
R1LK460D3LZ1AZ
TFT LCD PANEL
LCD–CONT–UNIT
BACK–LIGHT
11×2
FROM INVERTER MASTER
INVERTER
RUNTKA257WJZZ
DIGITAL–UNIT
DUNTKD628FM06
CARD–SLOT
POWER–UNIT
RDENCA204WJQZ
INVERTER
RUNTKA258WJZZ
SP–BOX
CORE
RCORFA020WJZZ
AC–CORD
QACCKA021WJPZ (E/I/F/R)
QACCBA073WJPZ (K)
AC–IN

2. LC-52XD1E/RU

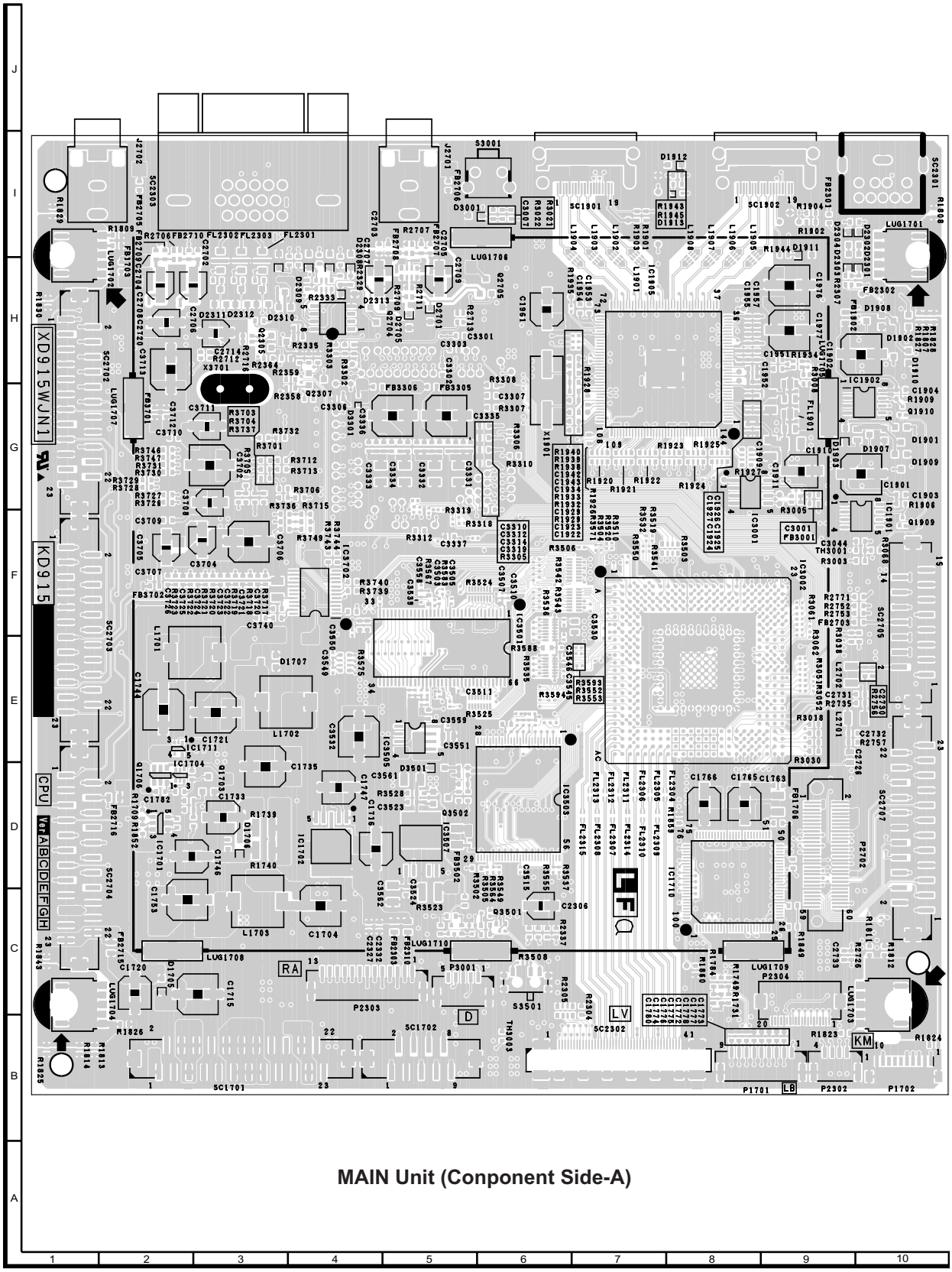


–D I AGRAM

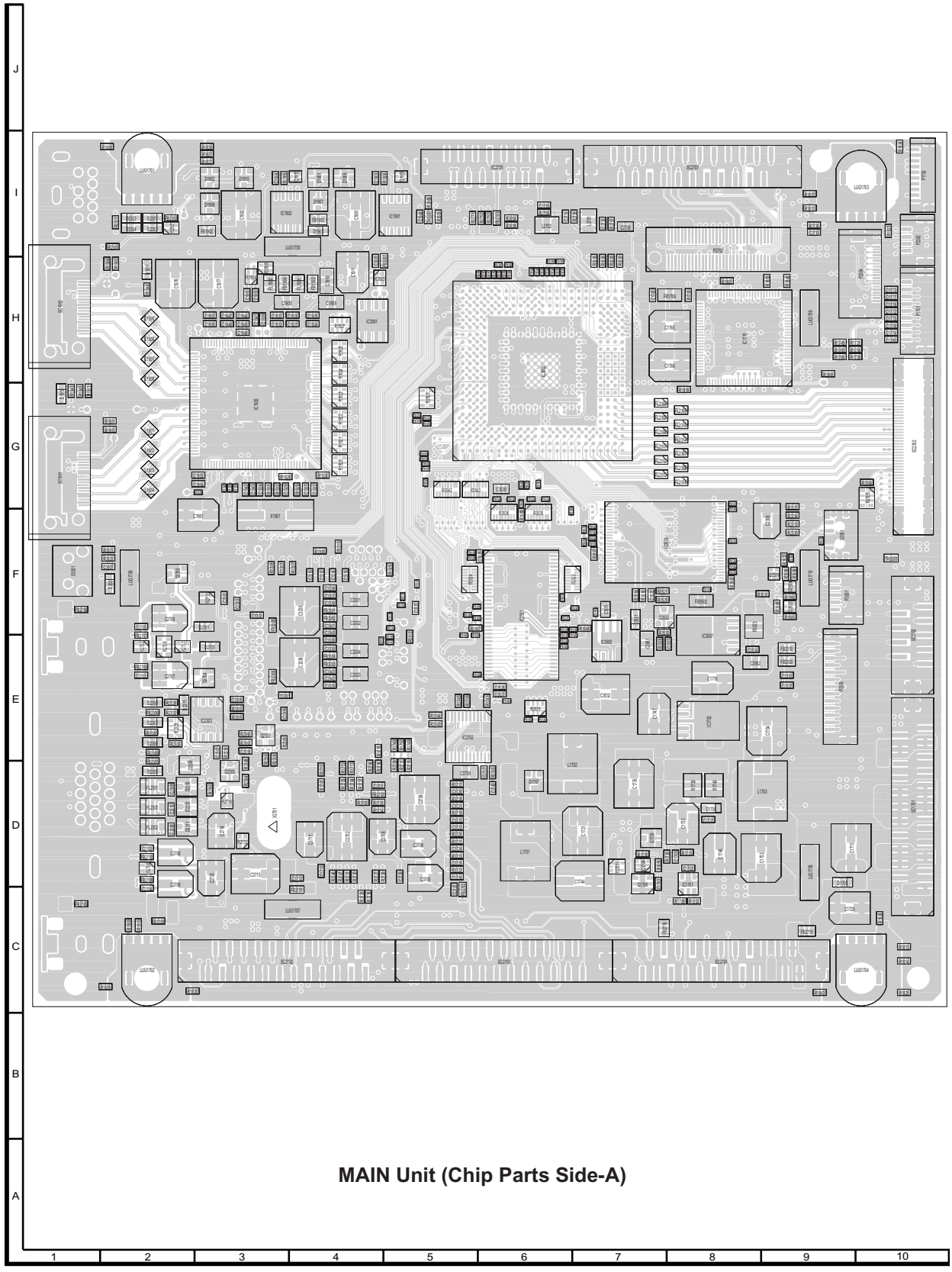

CGA536WJSA
LCD–MODULE
R1LK520D3LZ1A
TFT LCD PANEL
LCD–CONT–UNIT
FROM INVERTER MASTER
BACK–LIGHT
12×2
INVERTER
RUNTKA261WJZZ
DIGITAL–UNIT
DUNTKD528FM05
CARD–SLOT
POWER–UNIT
RDENCA204WJQZ
SP–BOX
CORE
RCORFA020WJZZ
AC–CORD
QACCKA021WJPZ (E/I/F/R)
AC–IN
QACCBA073WJPZ (K)
INVERTER
RUNTKA262WJZZ

CHAPTER 9. PRINTED WIRING BOARD

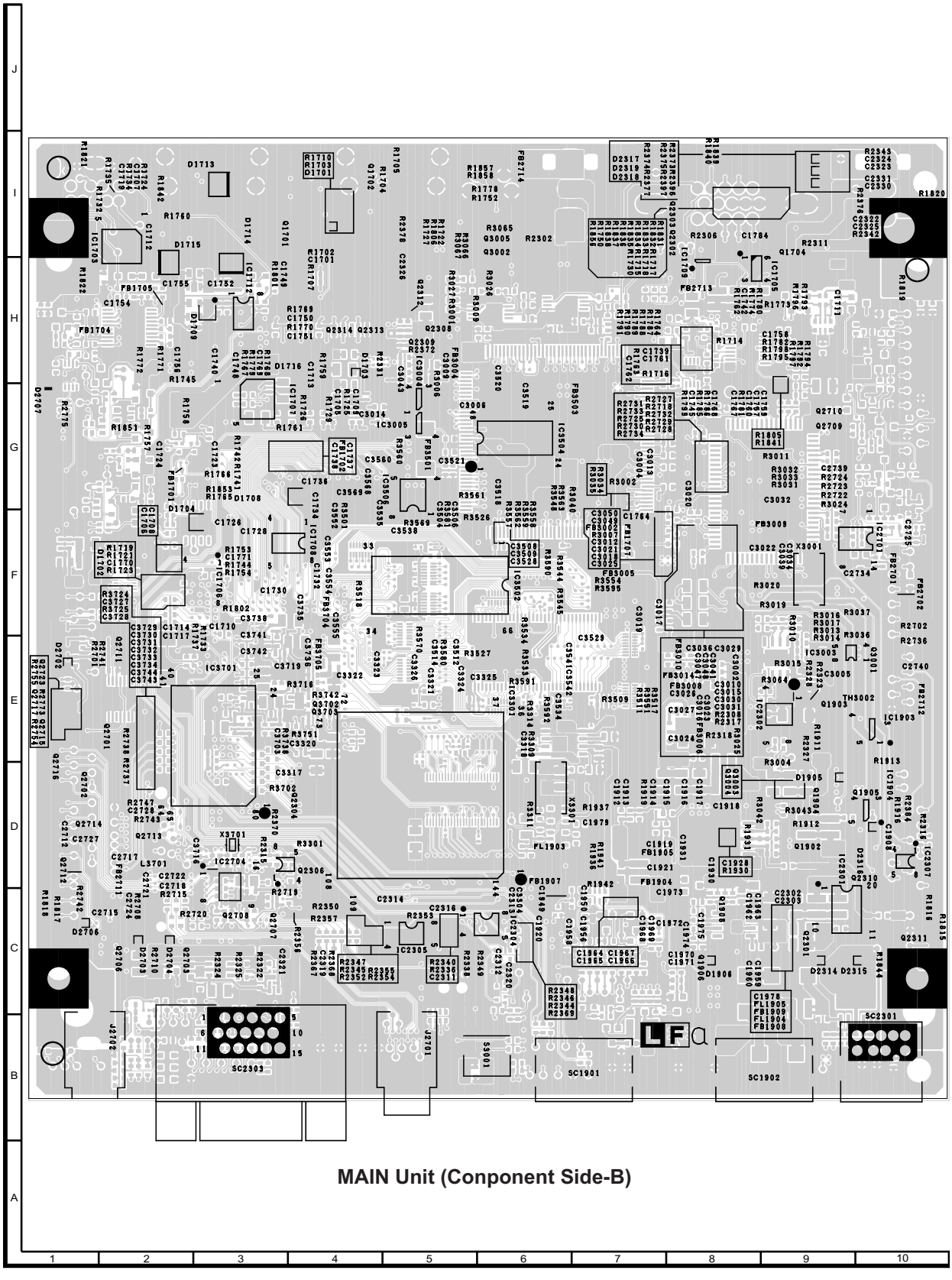
[1] MAIN Unit



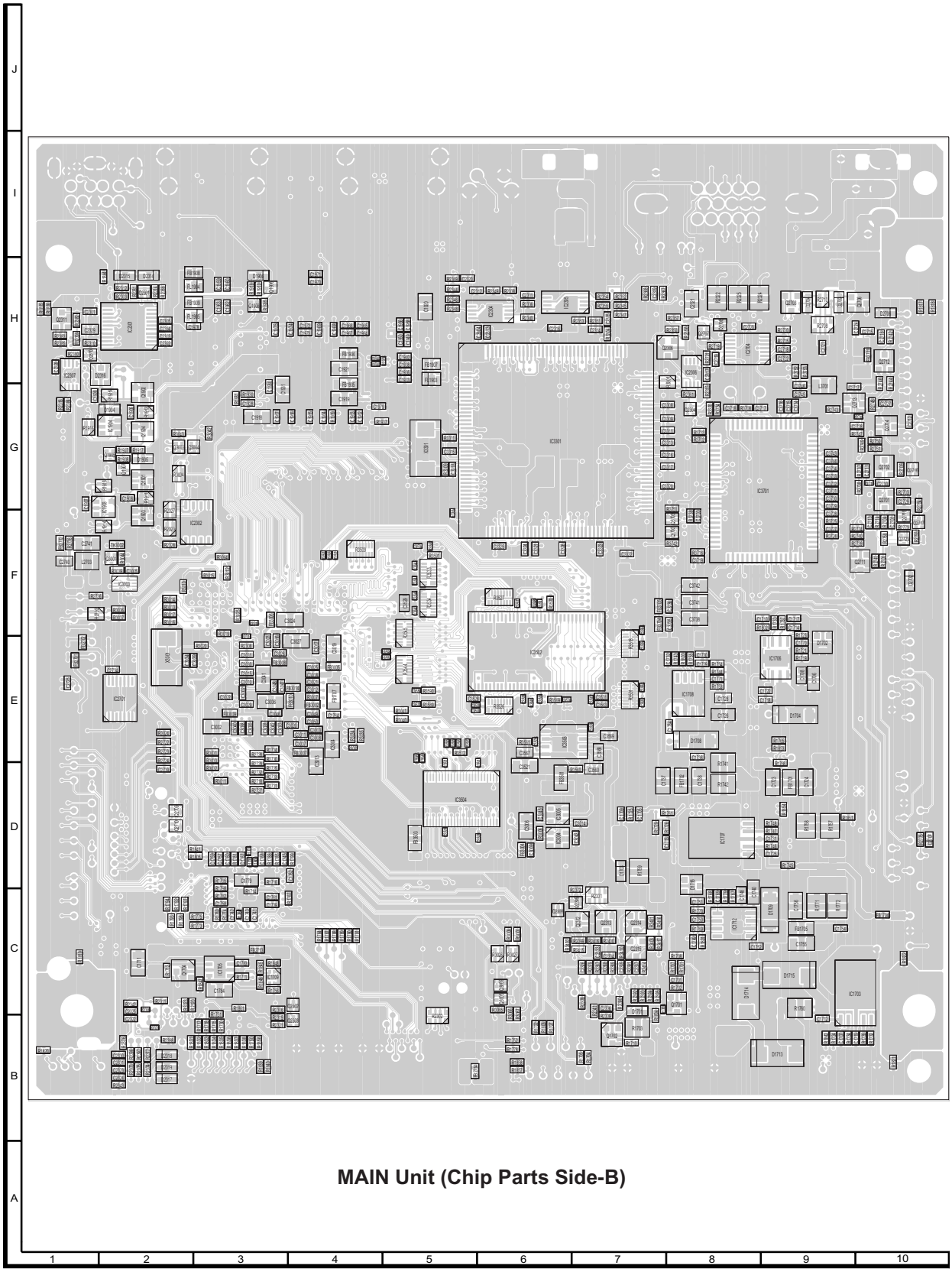
MAIN Unit (Conponent Side-A)



MAIN Unit (Chip Parts Side-A)

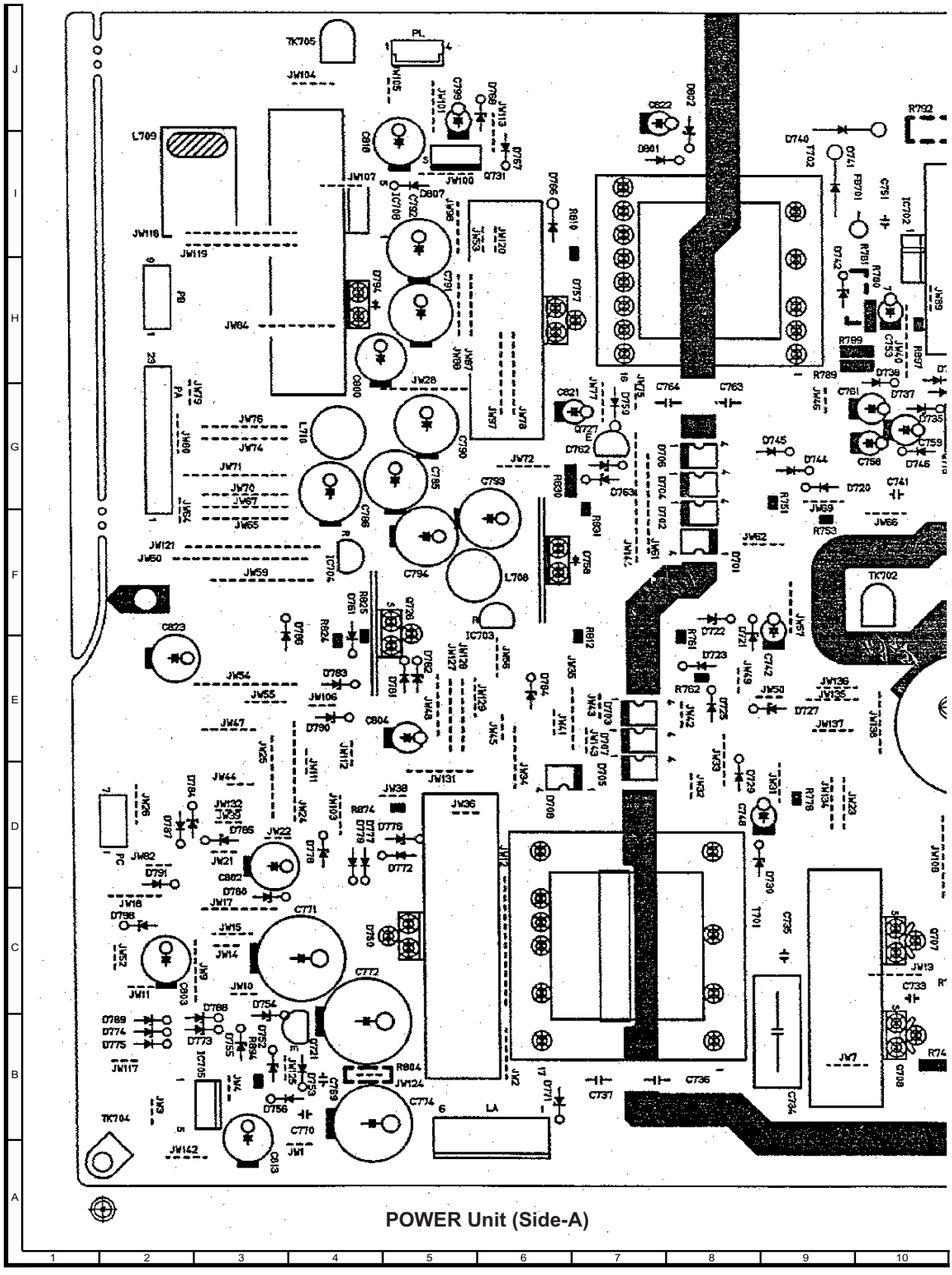


MAIN Unit (Conponent Side-B)

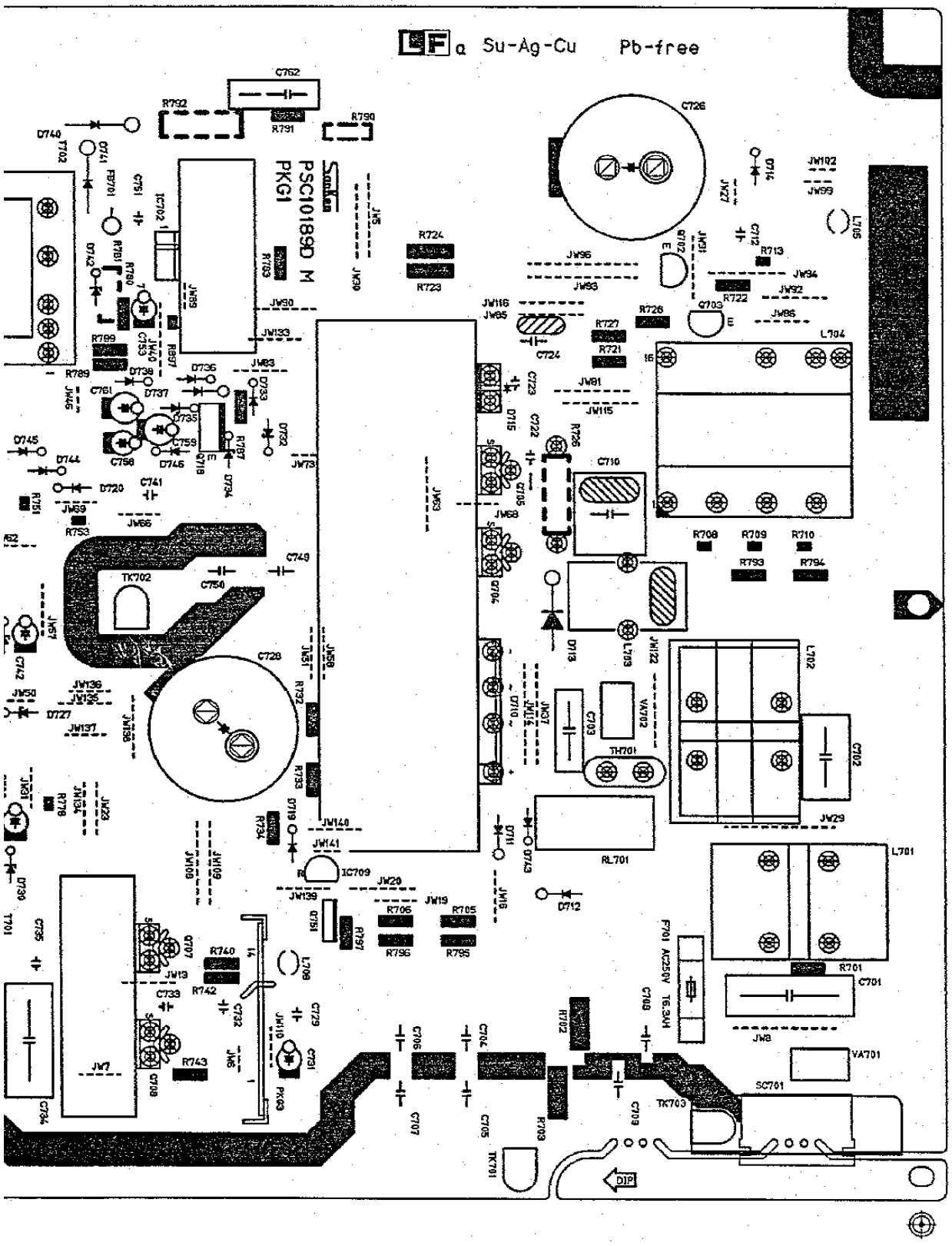


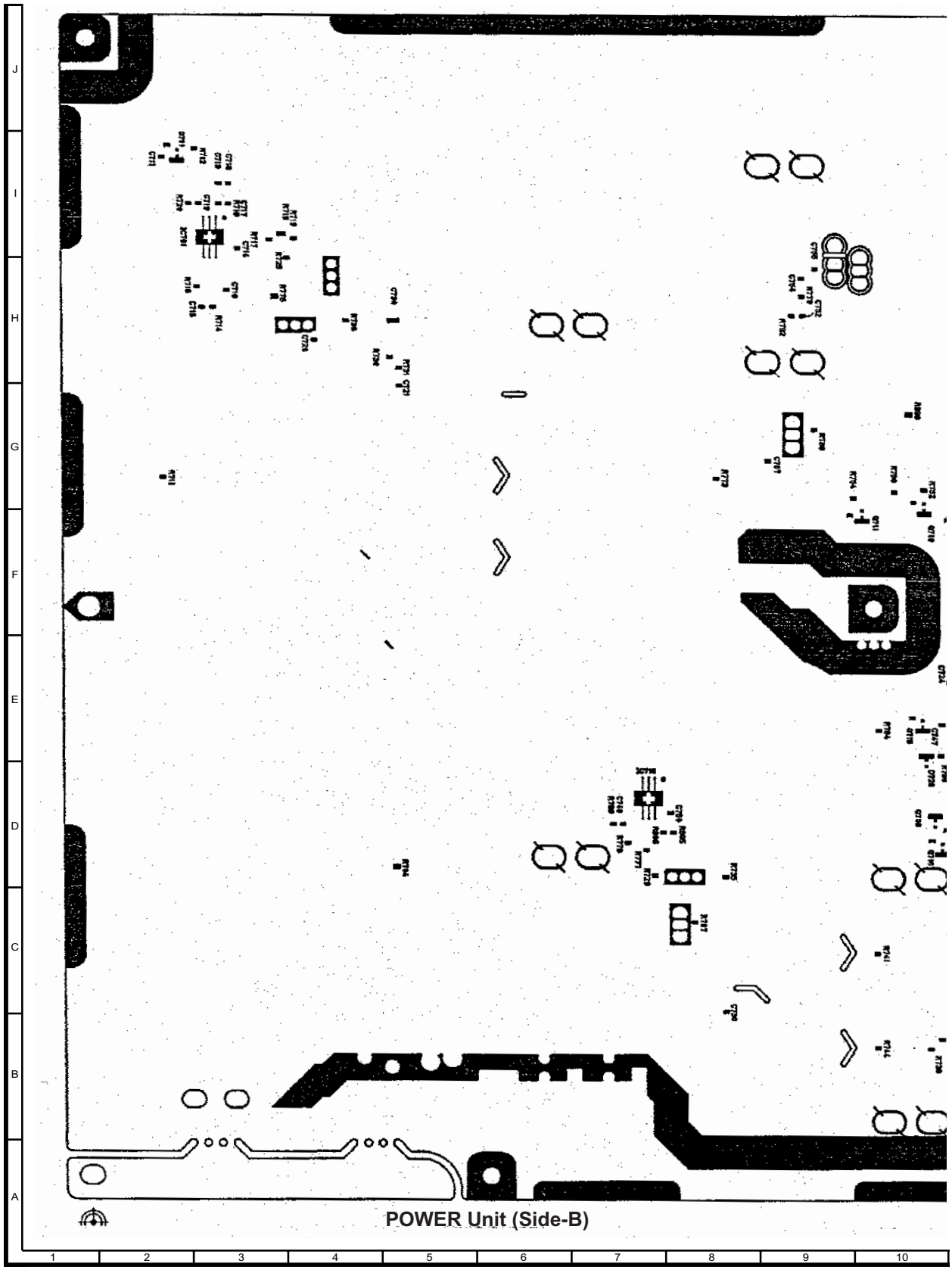
MAIN Unit (Chip Parts Side-B)

[2] POWER Unit

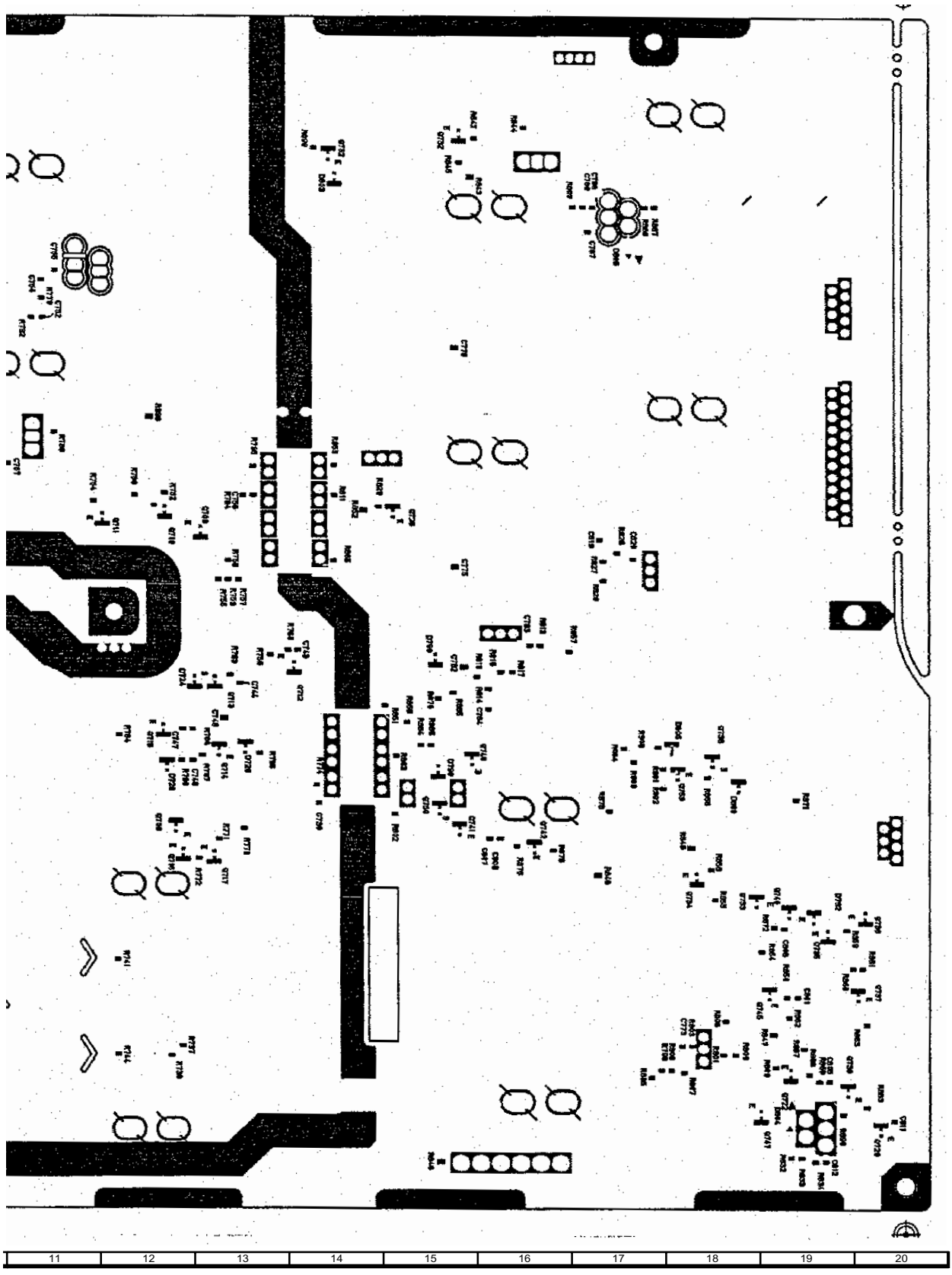


POWER Unit (Side-A)

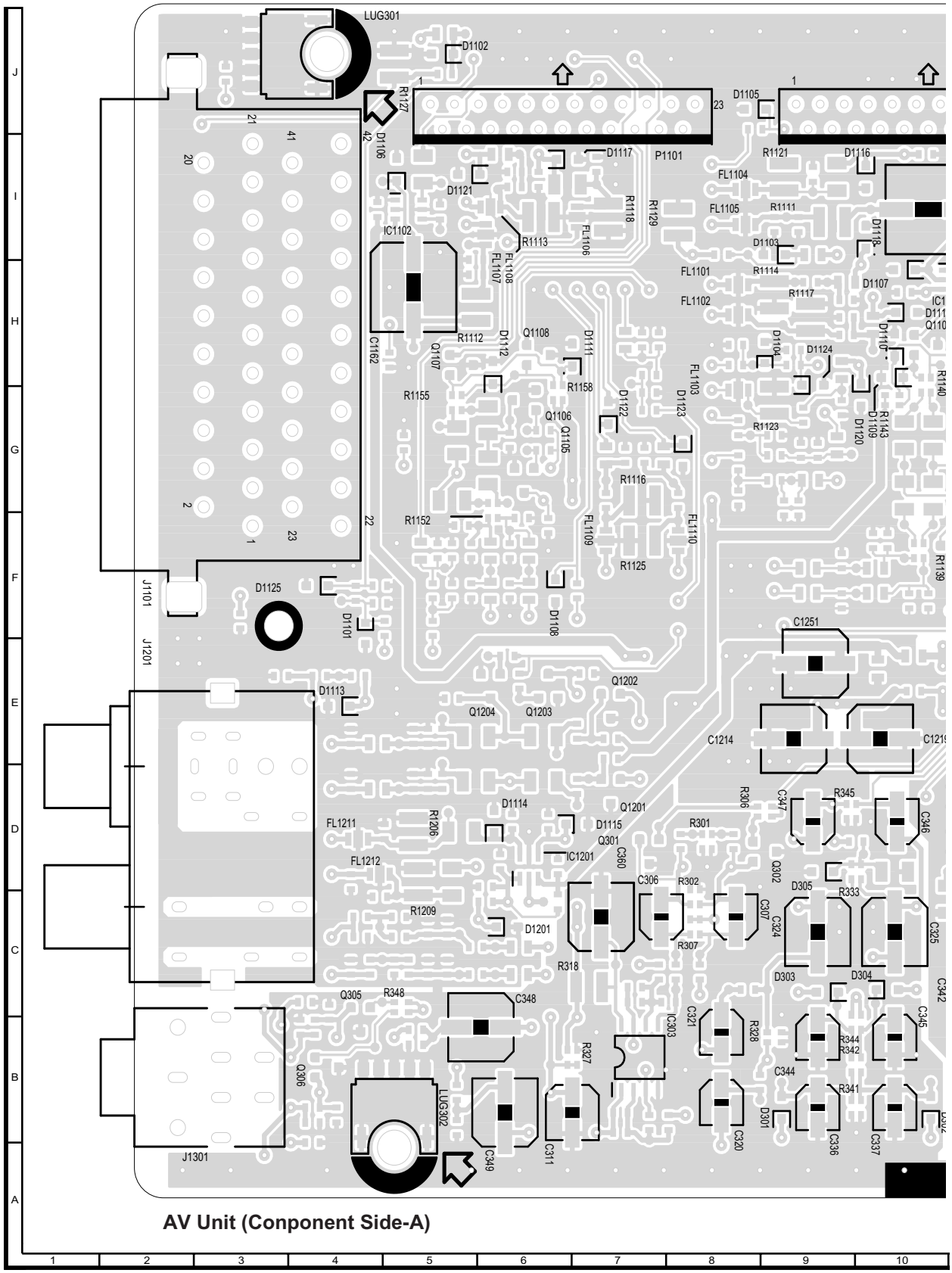

LF a Su-Ag-Cu Pb-free
PSC10189D M
PKG1
Sanken
DIP



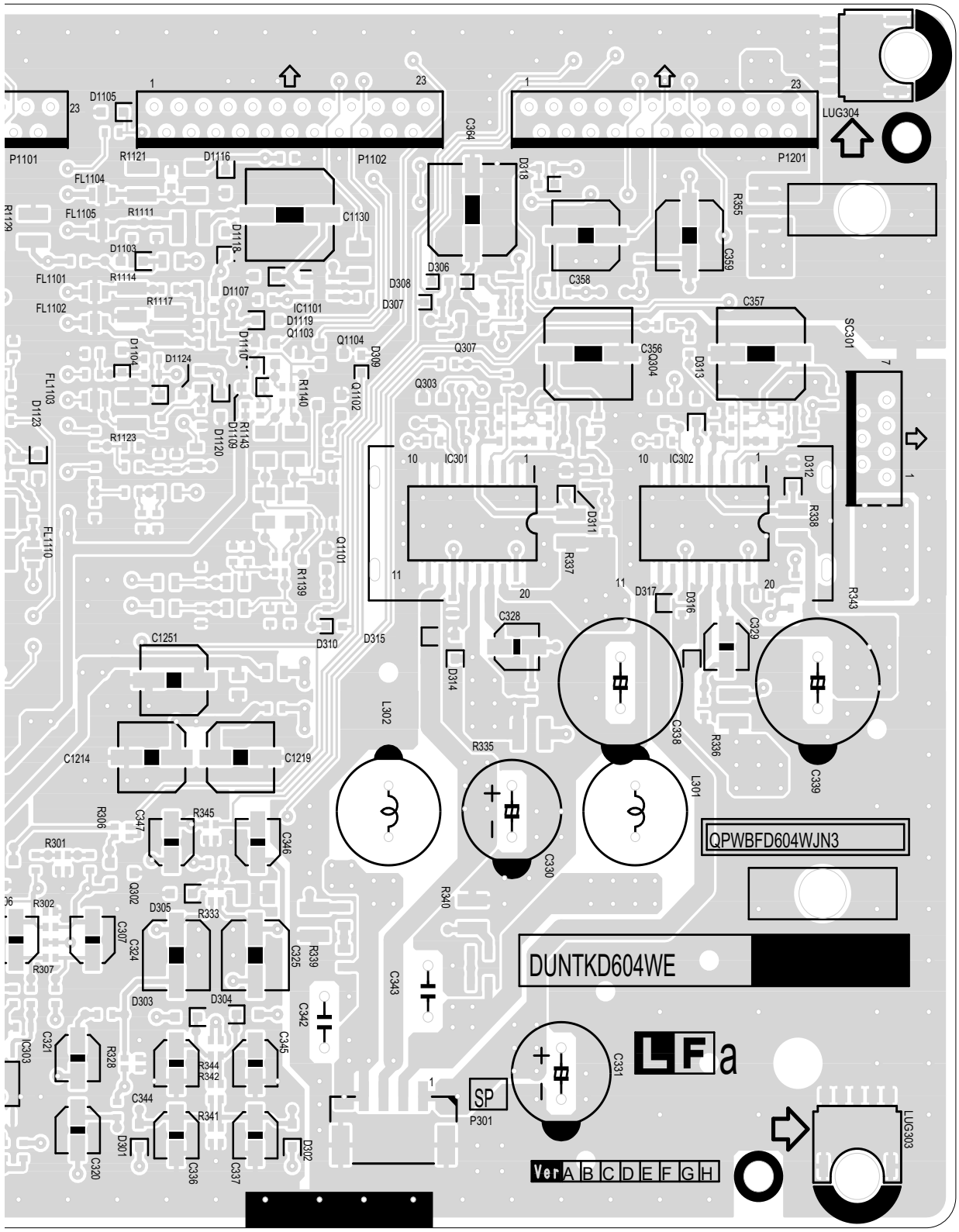
POWER Unit (Side-B)

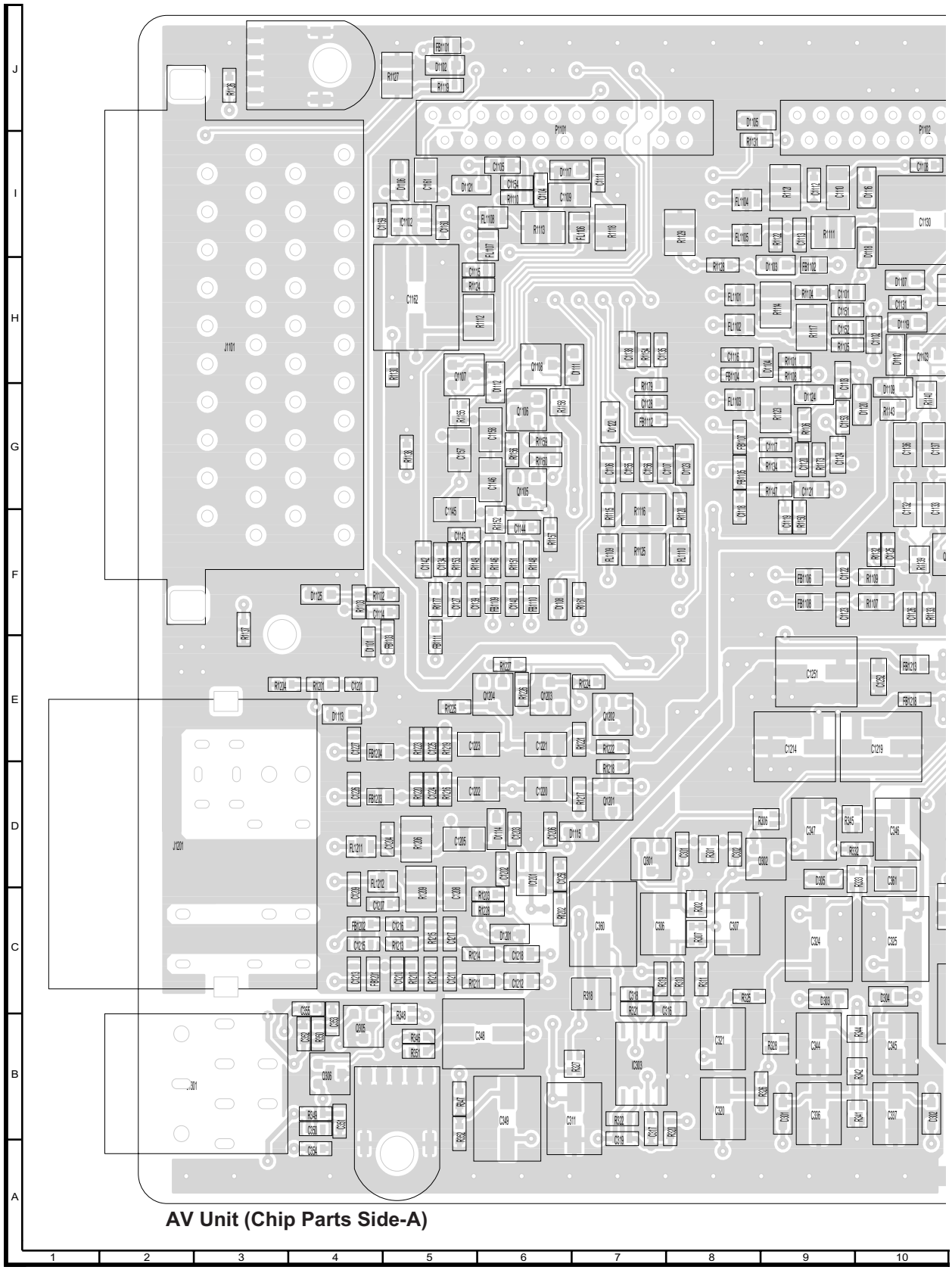


[3] AV Unit

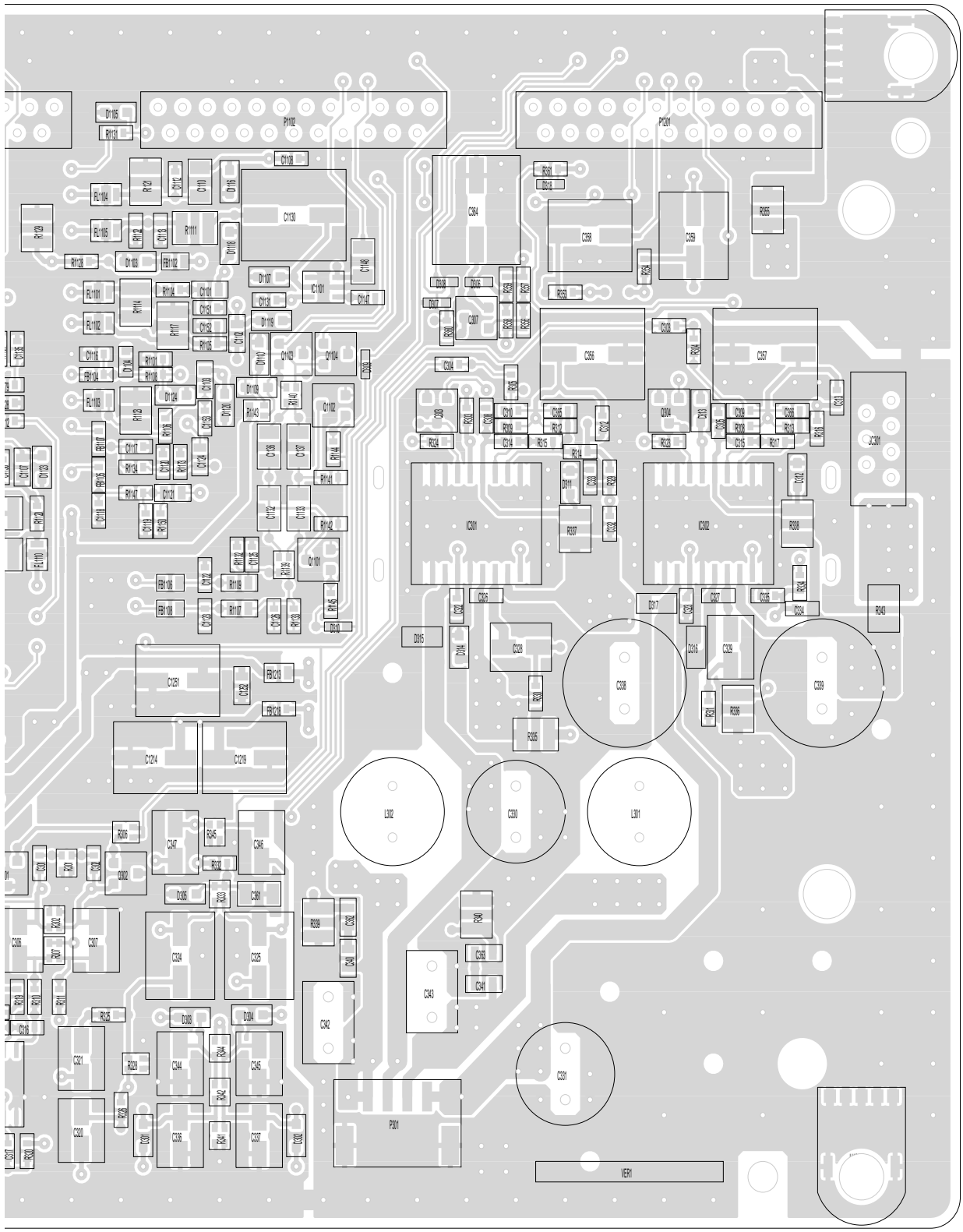


AV Unit (Conponent Side-A)

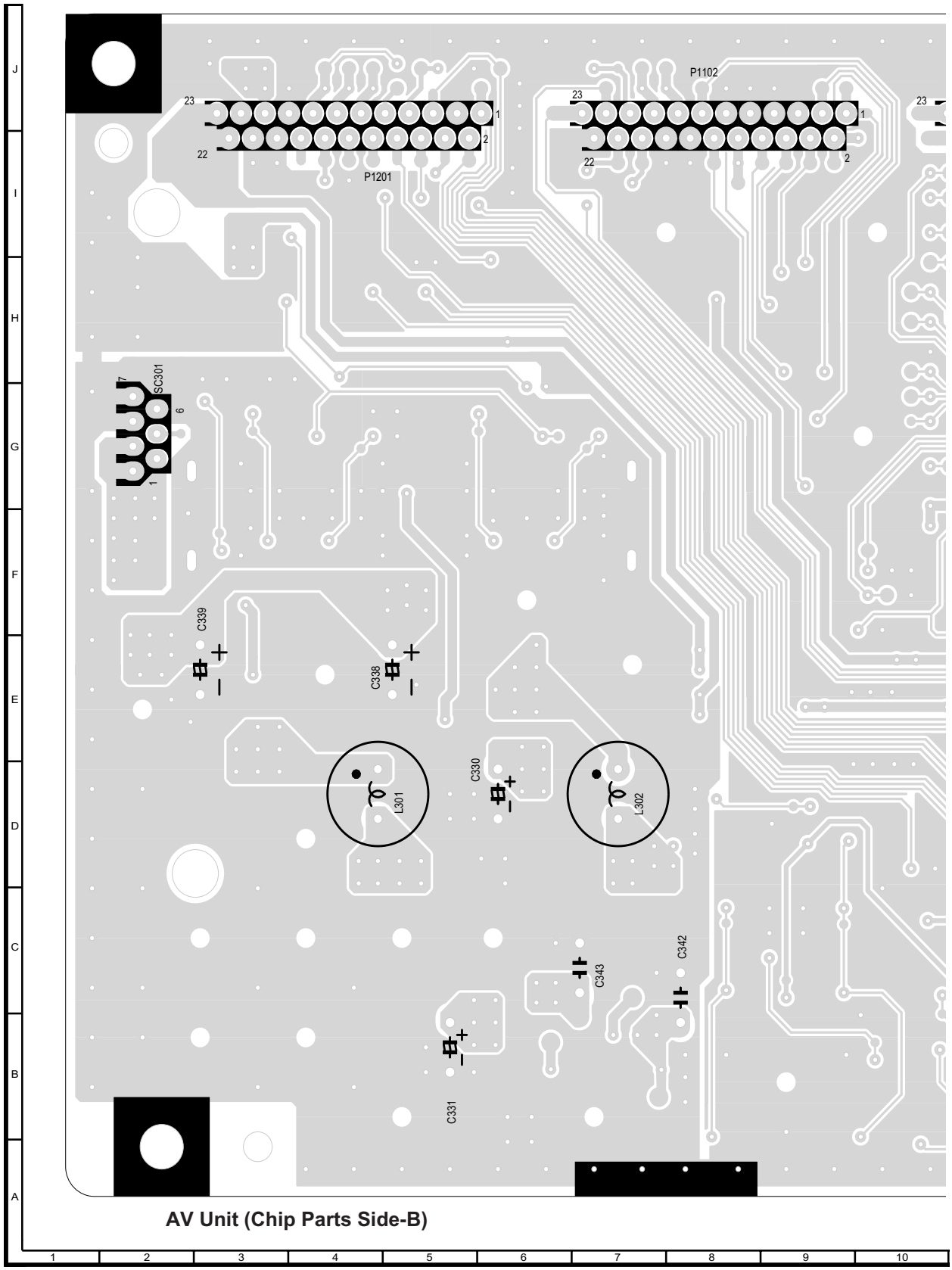

P1101
P1102
P1201
LUG304
LUG303
SC301
IC301
IC302
IC1101
P301
SP
QPWBFD604WJN3
DUNTKD604WE
LFa
Ver A B C D E F G H



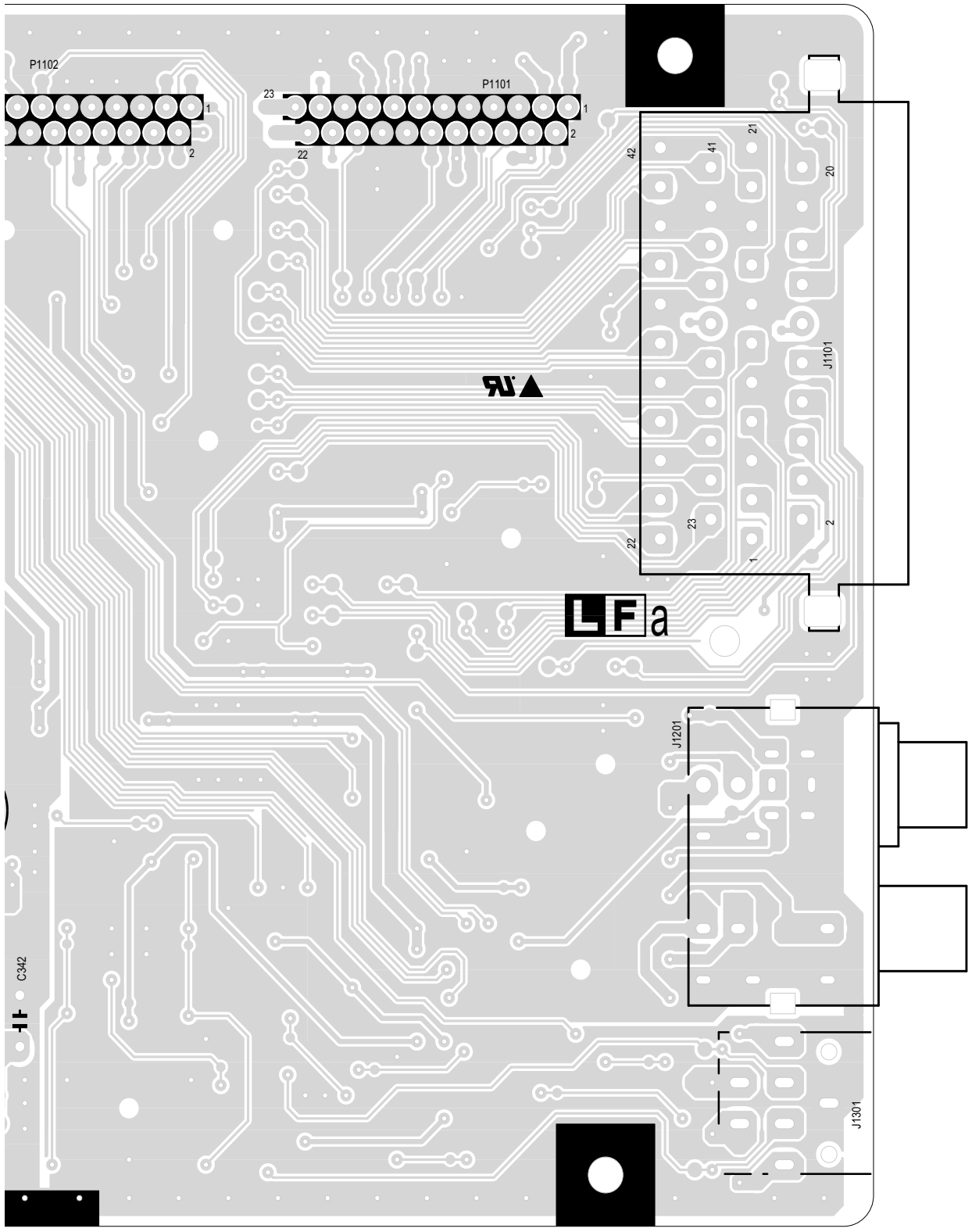
AV Unit (Chip Parts Side-A)



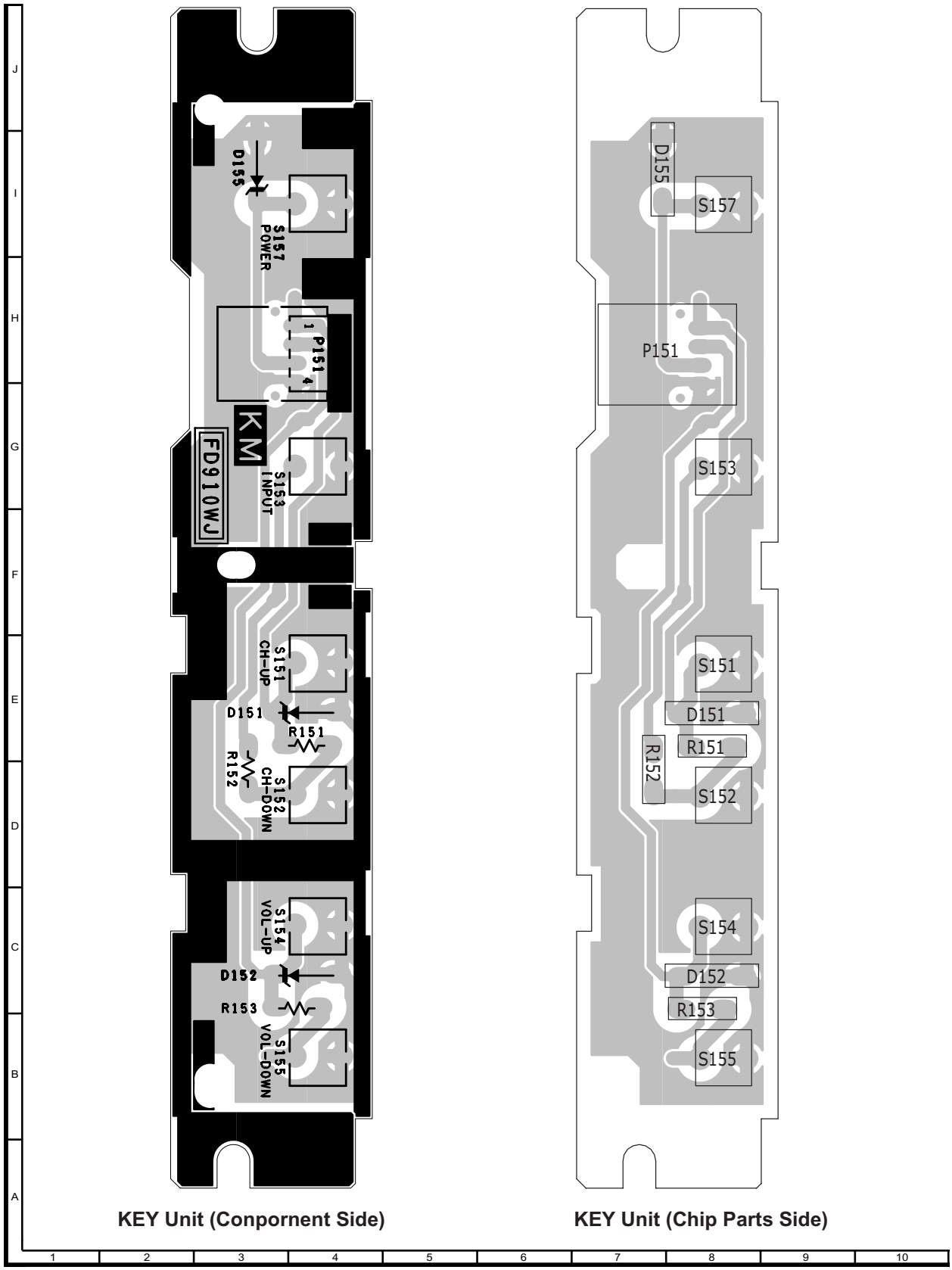
11	12	13	14	15	16	17	18	19	20



AV Unit (Chip Parts Side-B)


P1102
1
2
P1101
23
22
1
2
42
41
21
20
J1101
22
23
1
2
J1201
J1301
C342

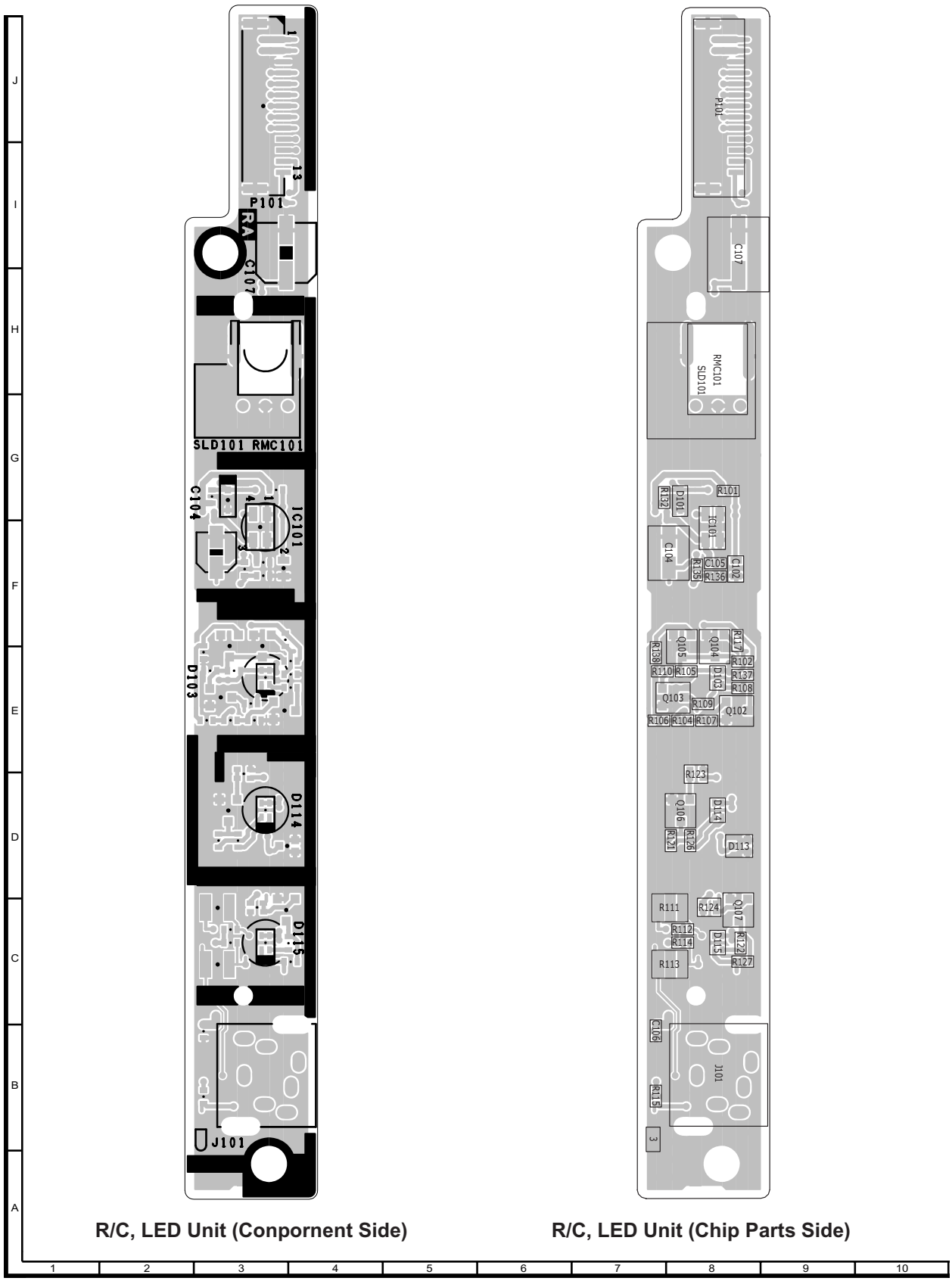
[4] KEY Unit



KEY Unit (Conpornent Side)

KEY Unit (Chip Parts Side)

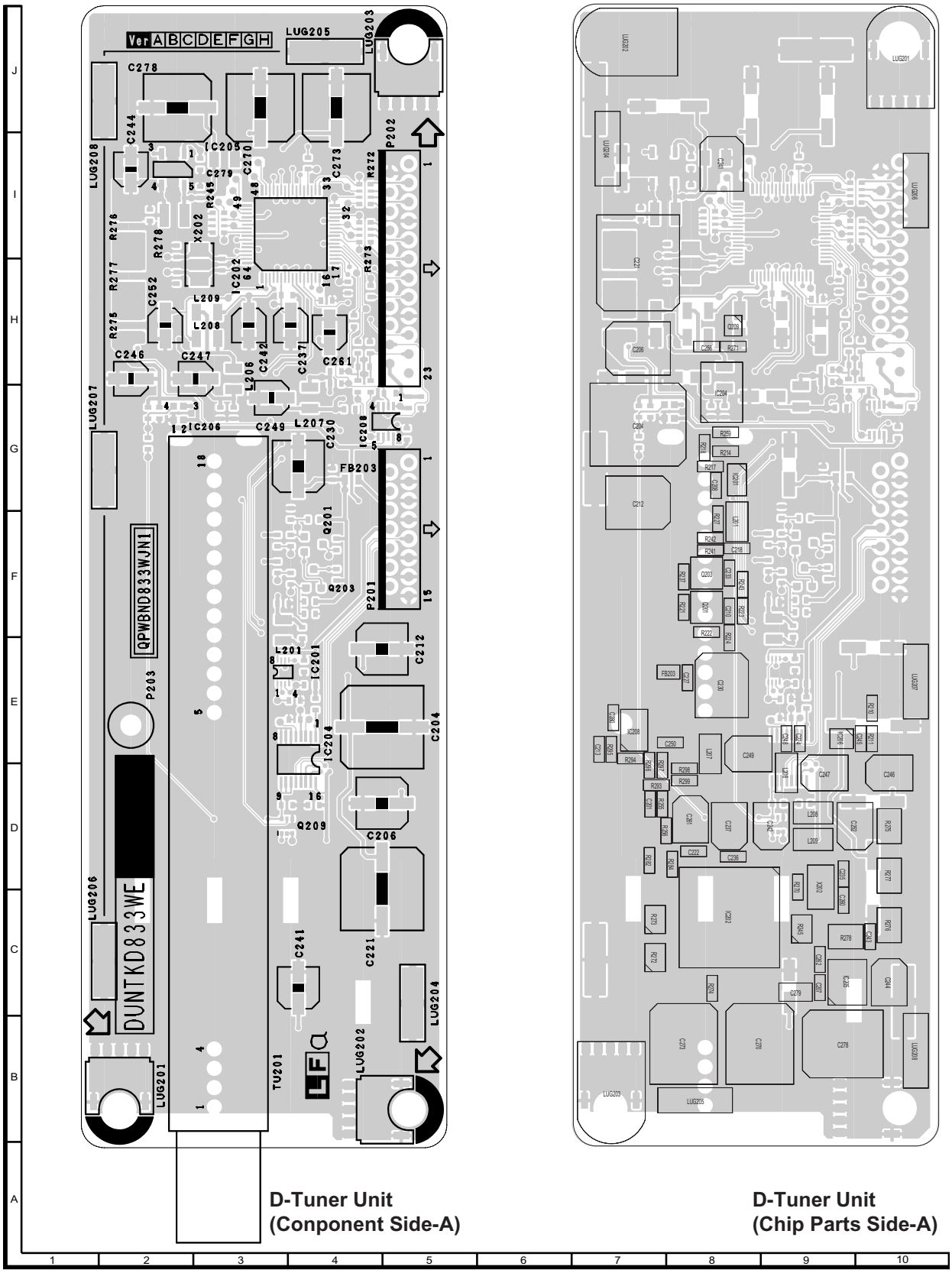
[5] R/C, LED Unit



R/C, LED Unit (Conpornent Side)

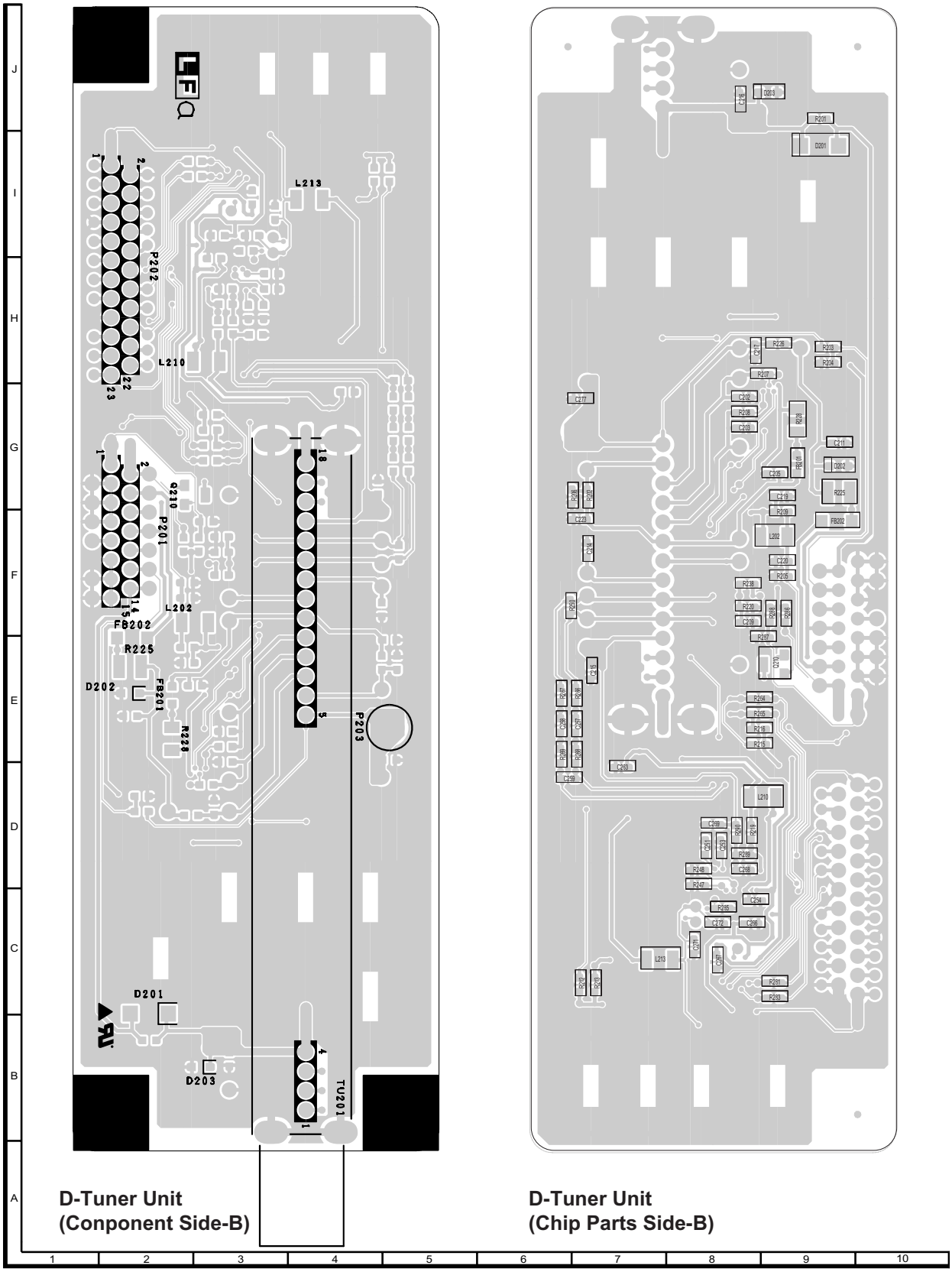
R/C, LED Unit (Chip Parts Side)

[6] DIGITAL TUNER Unit

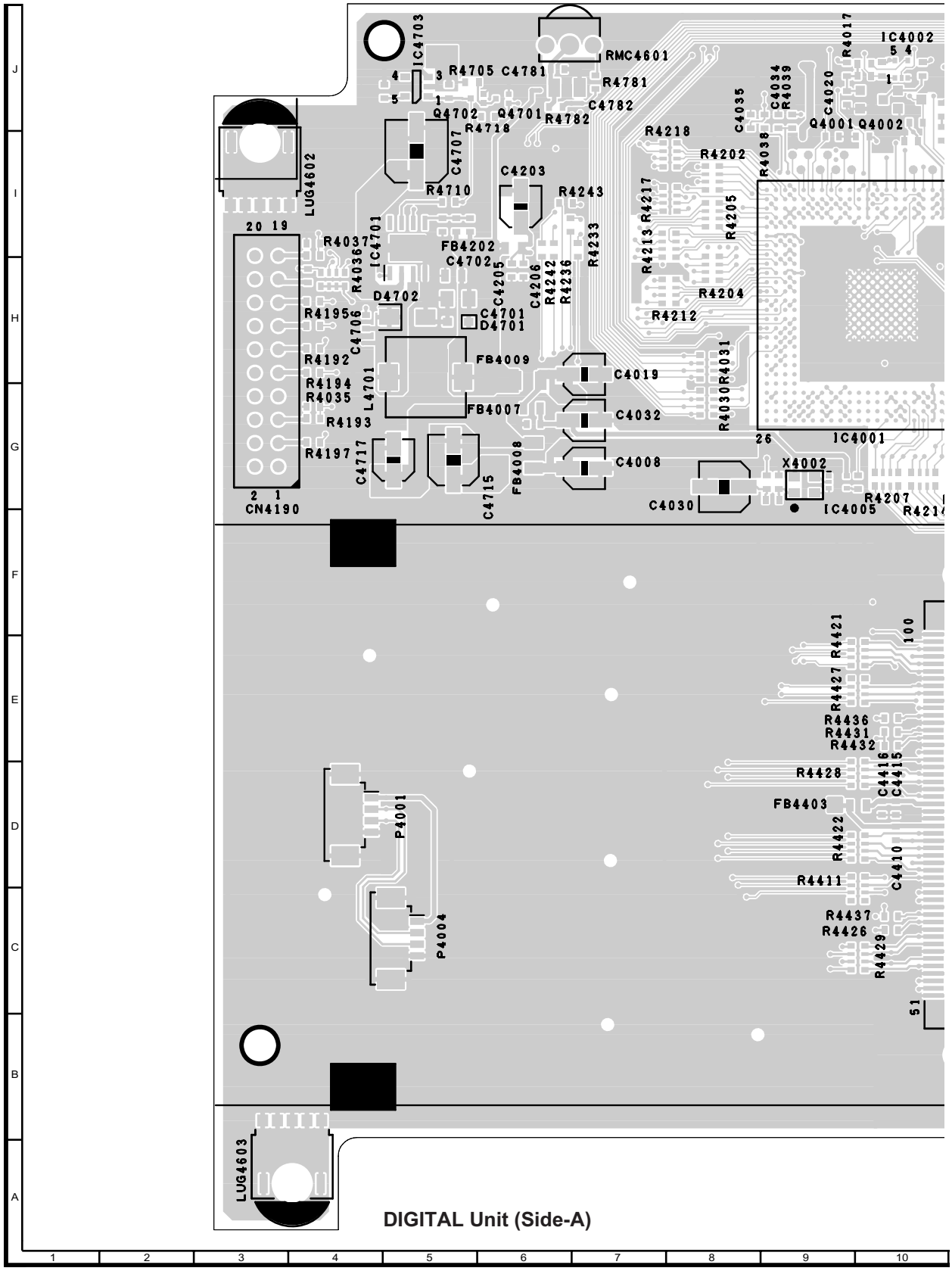


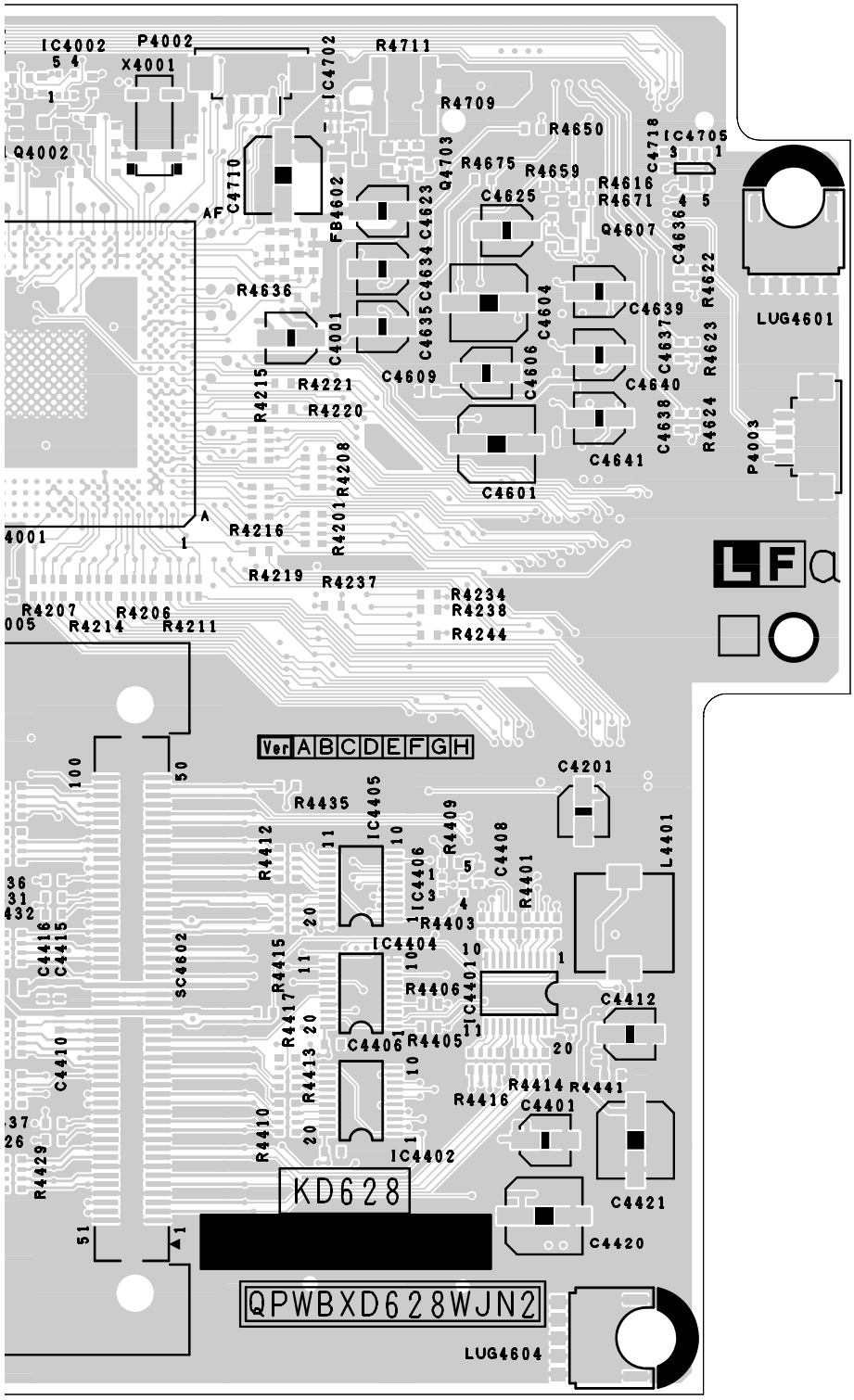
D-Tuner Unit
(Conponent Side-A)

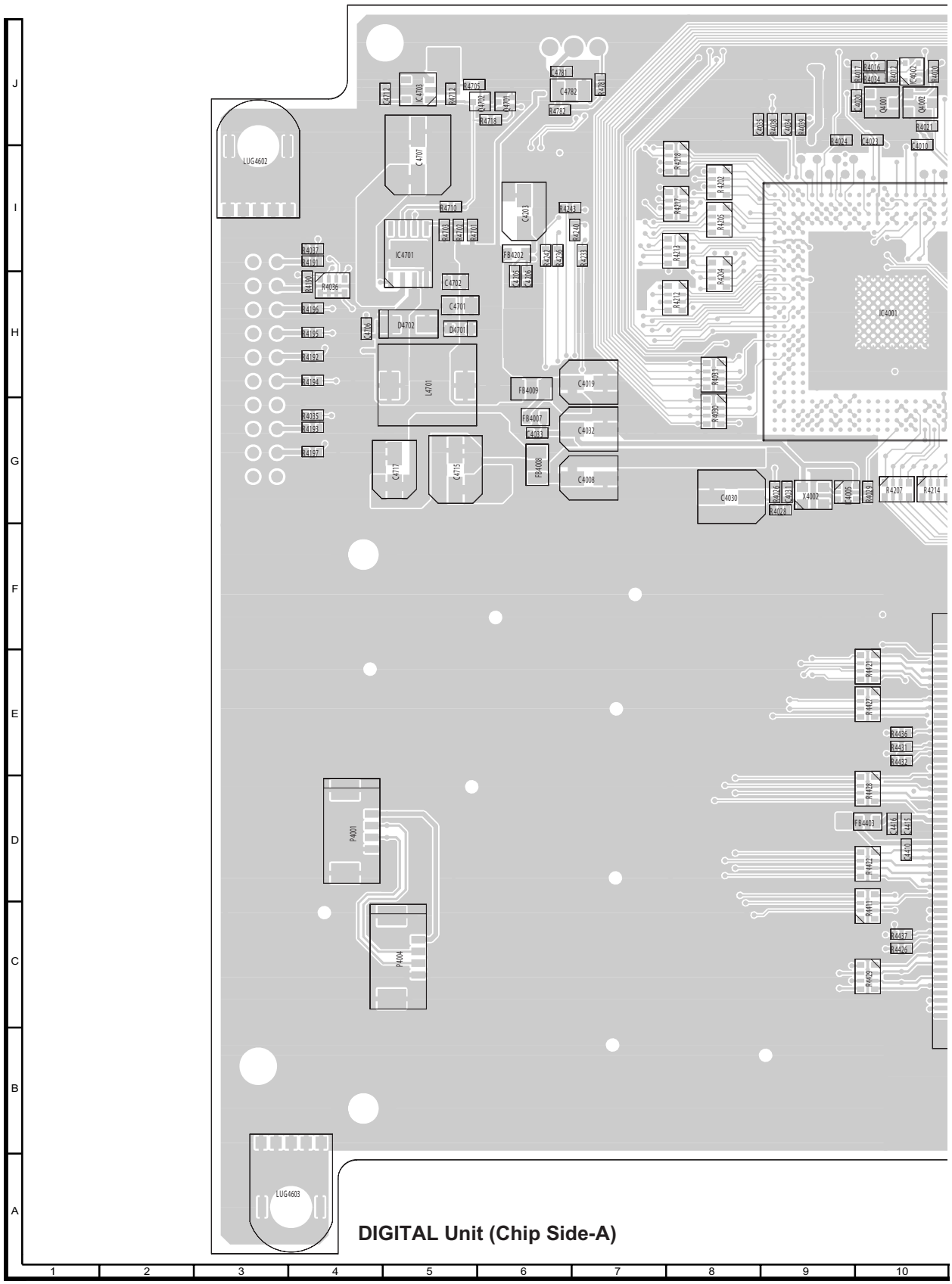
D-Tuner Unit
(Chip Parts Side-A)


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
L213
P202
L210
P201
L202
FB202
R225
D202
FB201
R228
P203
D201
D203
TU201
D-Tuner Unit
(Conponent Side-B)
D-Tuner Unit
(Chip Parts Side-B)

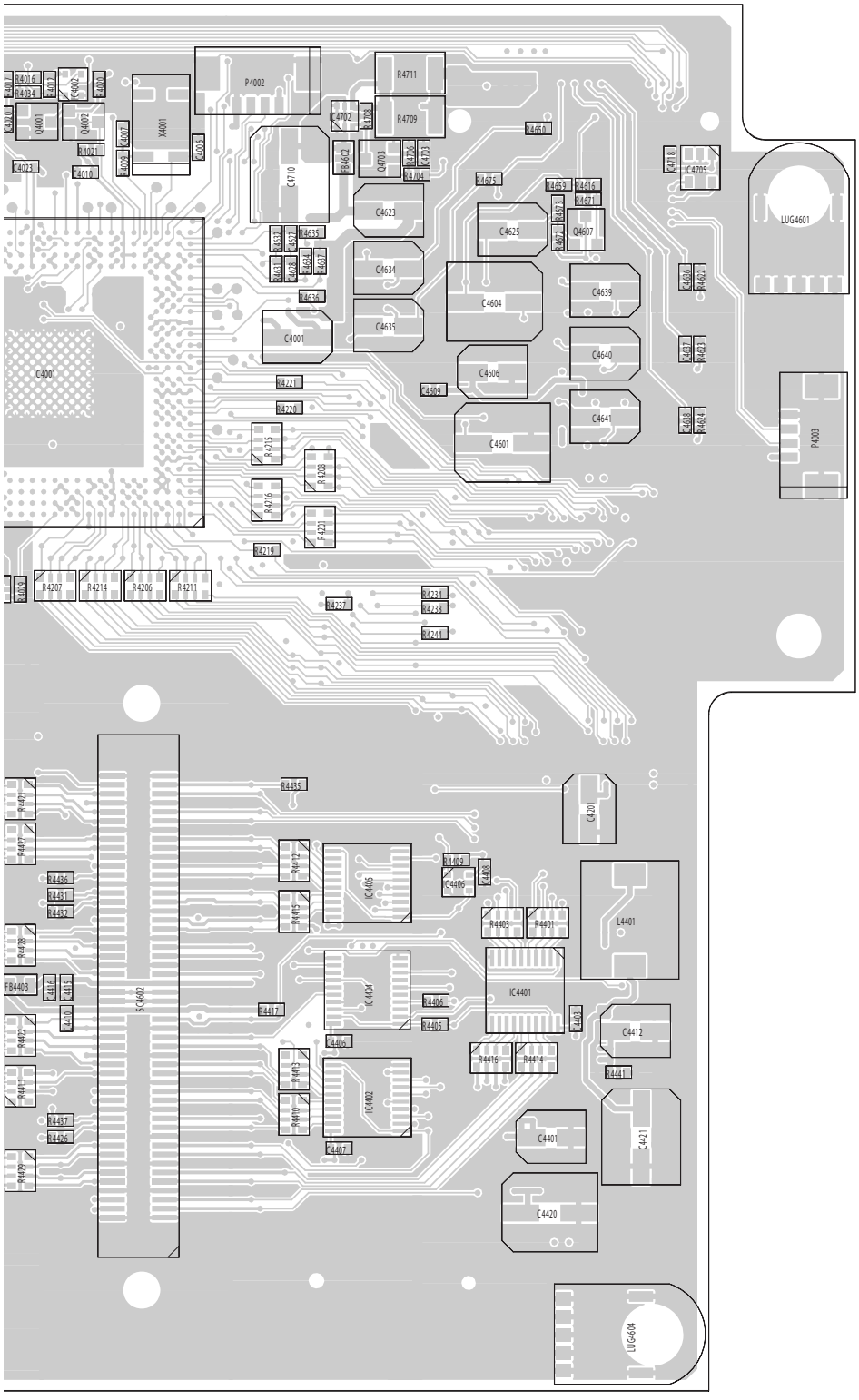
[7] DIGITAL Unit



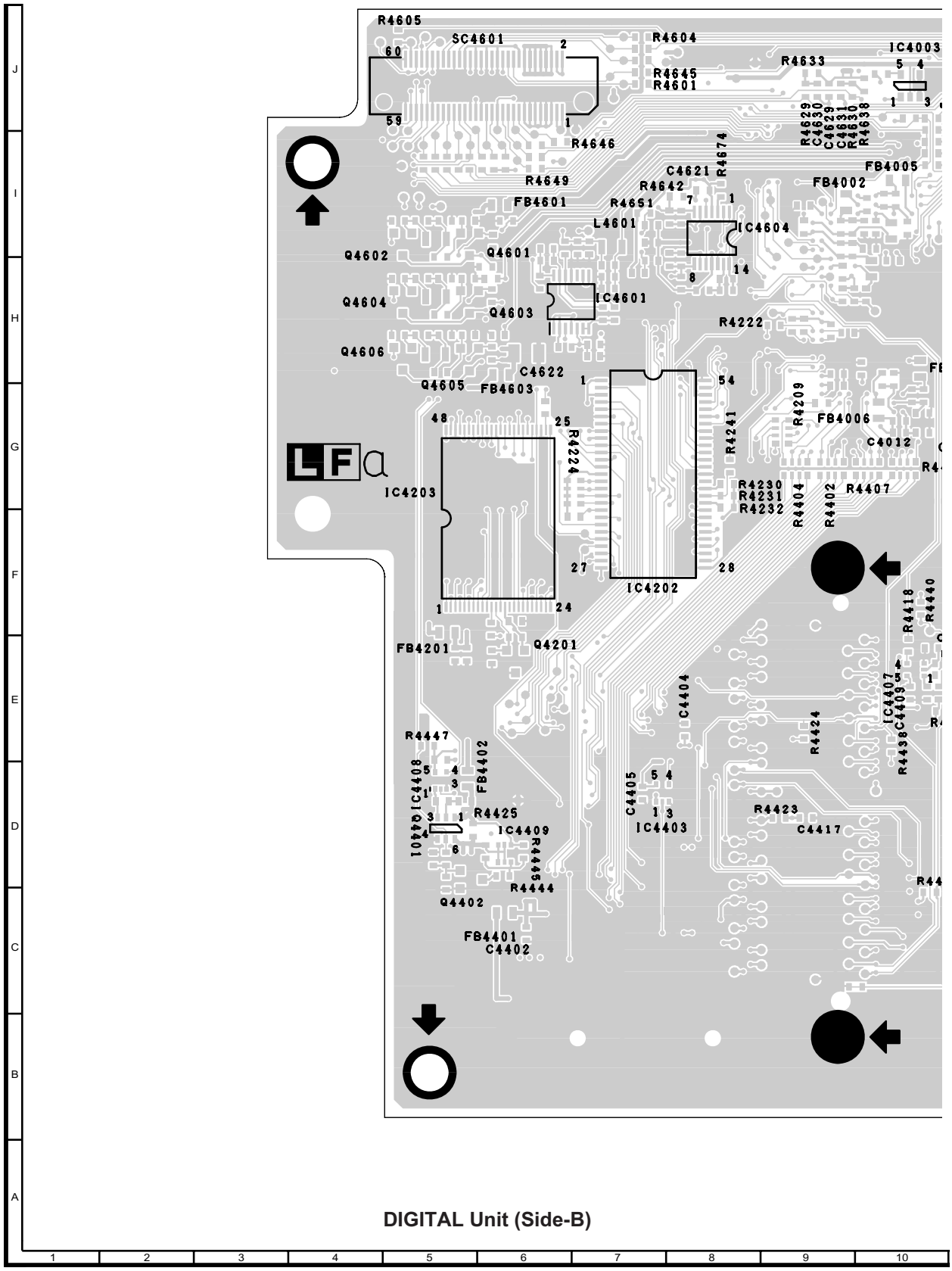

IC4002
P4002
X4001
IC4702
R4711
R4709
R4650
IC4705
C4718
Q4002
C4710
AF
R4675
R4659
R4616
R4671
Q4607
C4636
FB4602
C4623
Q4703
C4625
C4634
R4636
C4635
C4001
C4604
C4639
R4622
LUG4601
R4623
C4637
C4606
C4609
C4640
R4215
R4221
R4220
C4638
R4624
P4003
C4641
R4208
R4201
C4601
R4216
R4219
R4237
R4234
R4238
R4244
R4207
R4206
R4214
R4211
Ver A B C D E F G H
C4201
R4435
IC4405
R4409
C4408
L4401
R4412
IC4406
R4401
R4403
IC4404
C4416
C4415
SC4602
R4415
IC4401
R4406
C4412
R4417
C4406
R4405
C4410
R4413
R4414
R4441
R4416
C4401
R4410
IC4402
KD628
C4421
R4429
C4420
QPWBXD628WJN2
LUG4604



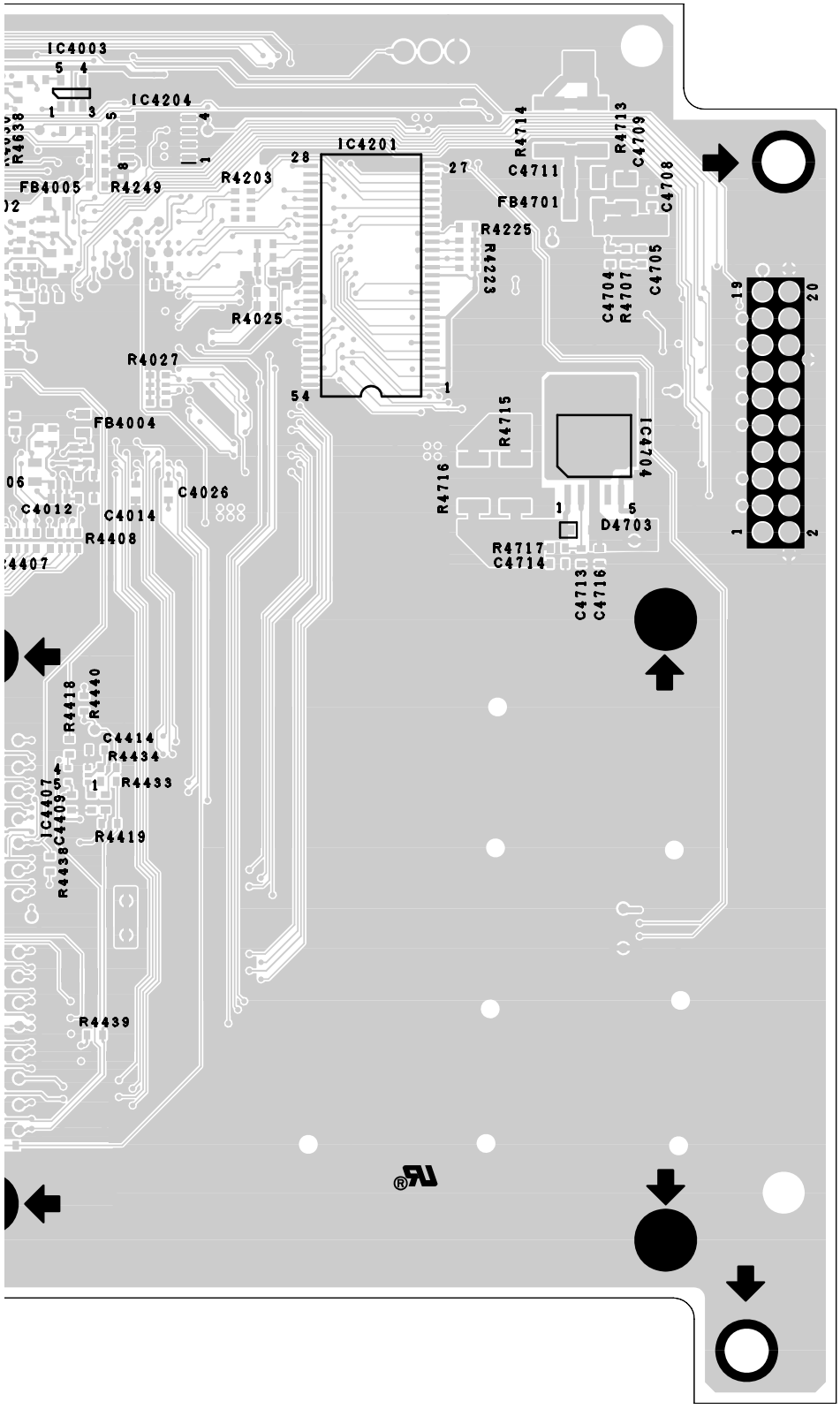
DIGITAL Unit (Chip Side-A)

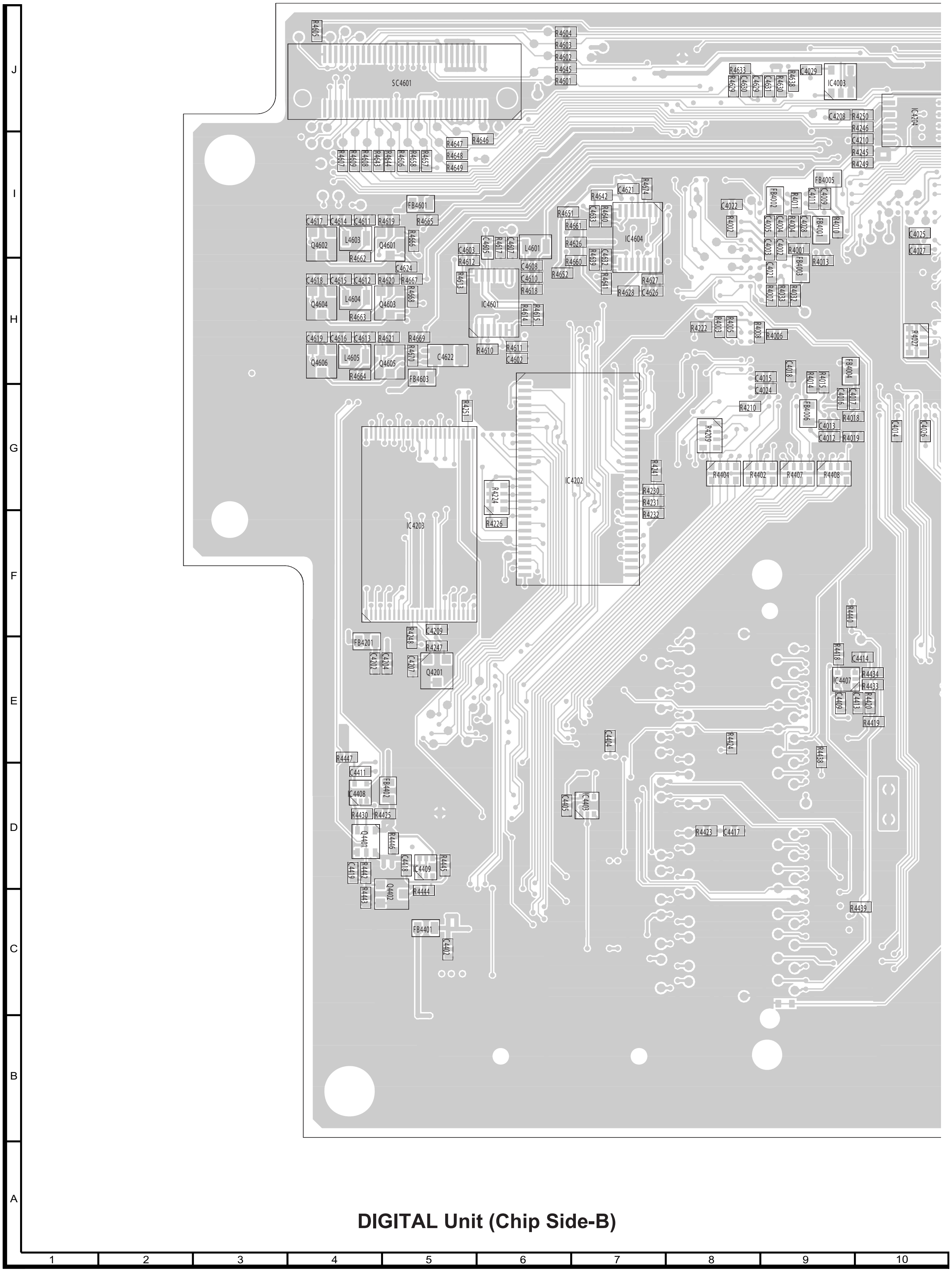


11	12	13	14	15	16	17	18	19	20

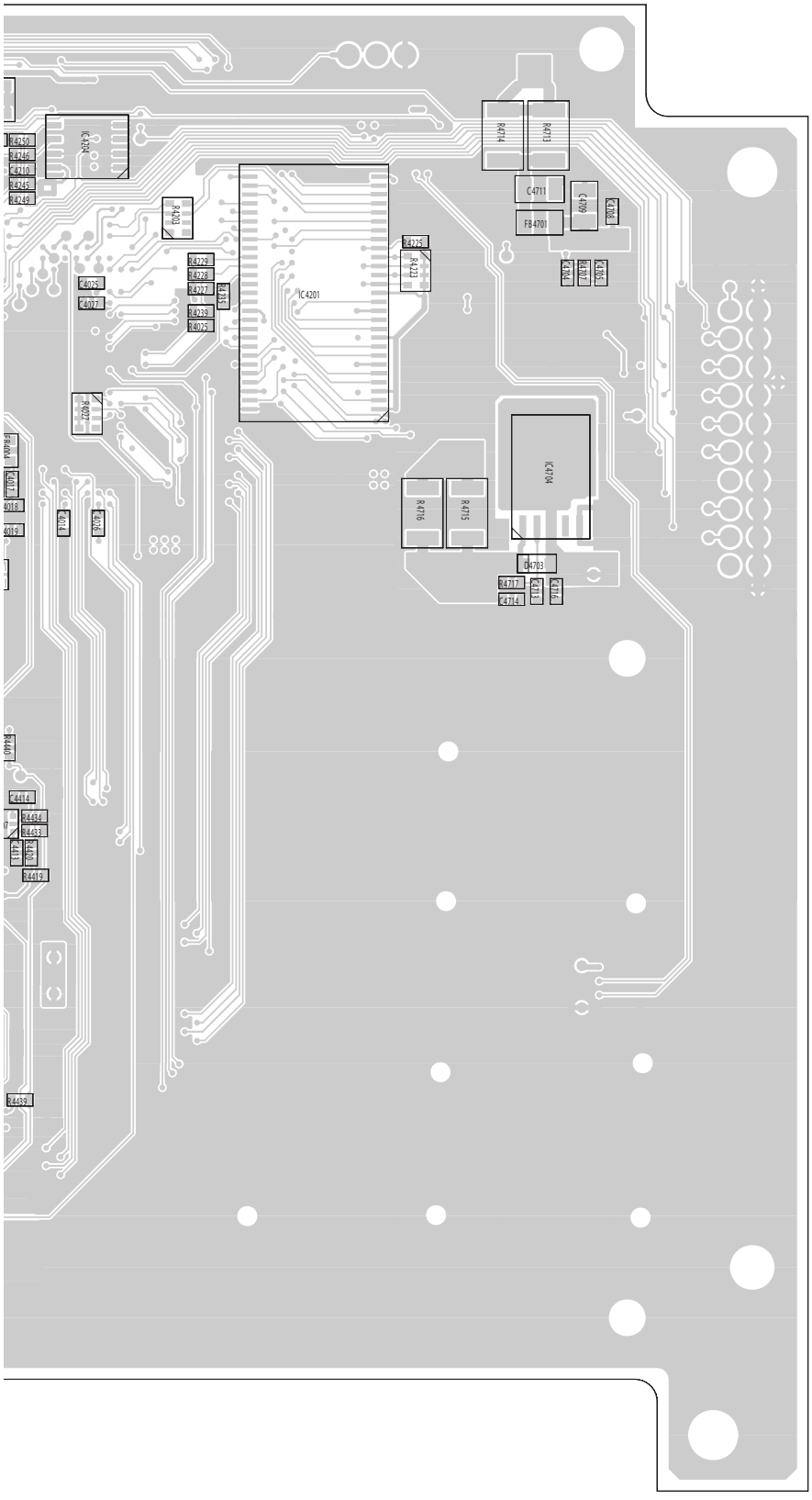


DIGITAL Unit (Side-B)


IC4003
IC4204
IC4201
FB4005
R4249
R4203
R4025
R4027
FB4004
C4026
C4012
C4014
R4408
R4407
R4418
R4440
C4414
R4434
R4433
IC4407
C4409
R4438
R4419
R4439
R4714
R4713
C4709
C4711
C4708
FB4701
R4225
C4704
R4707
C4705
R4715
IC4704
R4716
D4703
R4717
C4714
C4713
C4716



DIGITAL Unit (Chip Side-B)


IC4204
R4714
R4713
C4711
C4709
FB4701
IC4201
R4227
IC4704
R4716
R4715
D4703

MEMO

CHAPTER 10. SCHEMATIC DIAGRAM

[1] SCHEMATIC DIAGRAM

1. DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on the stable supply voltage of AC 110-240V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (K= ± 10%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

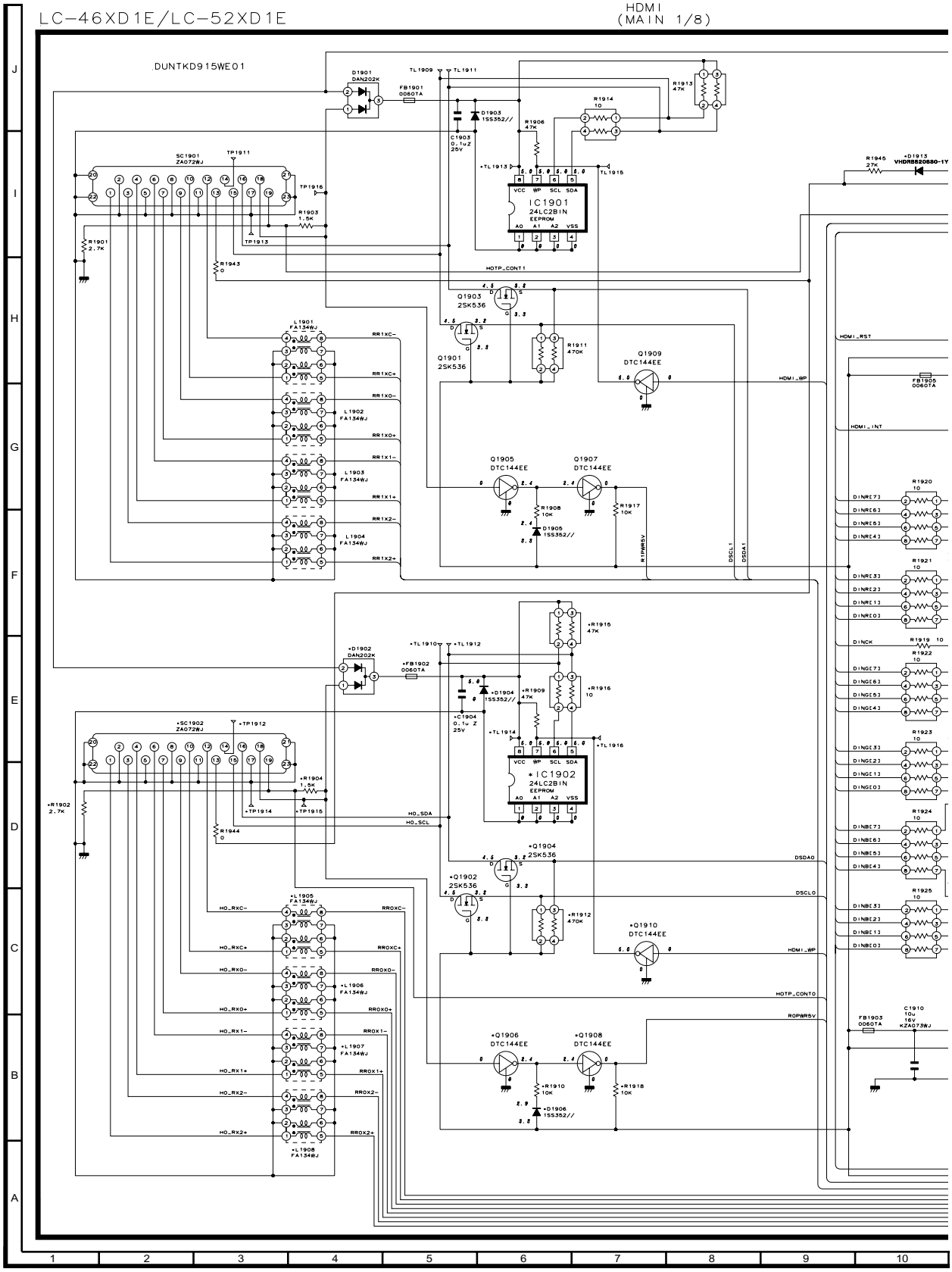
SAFETY NOTES:

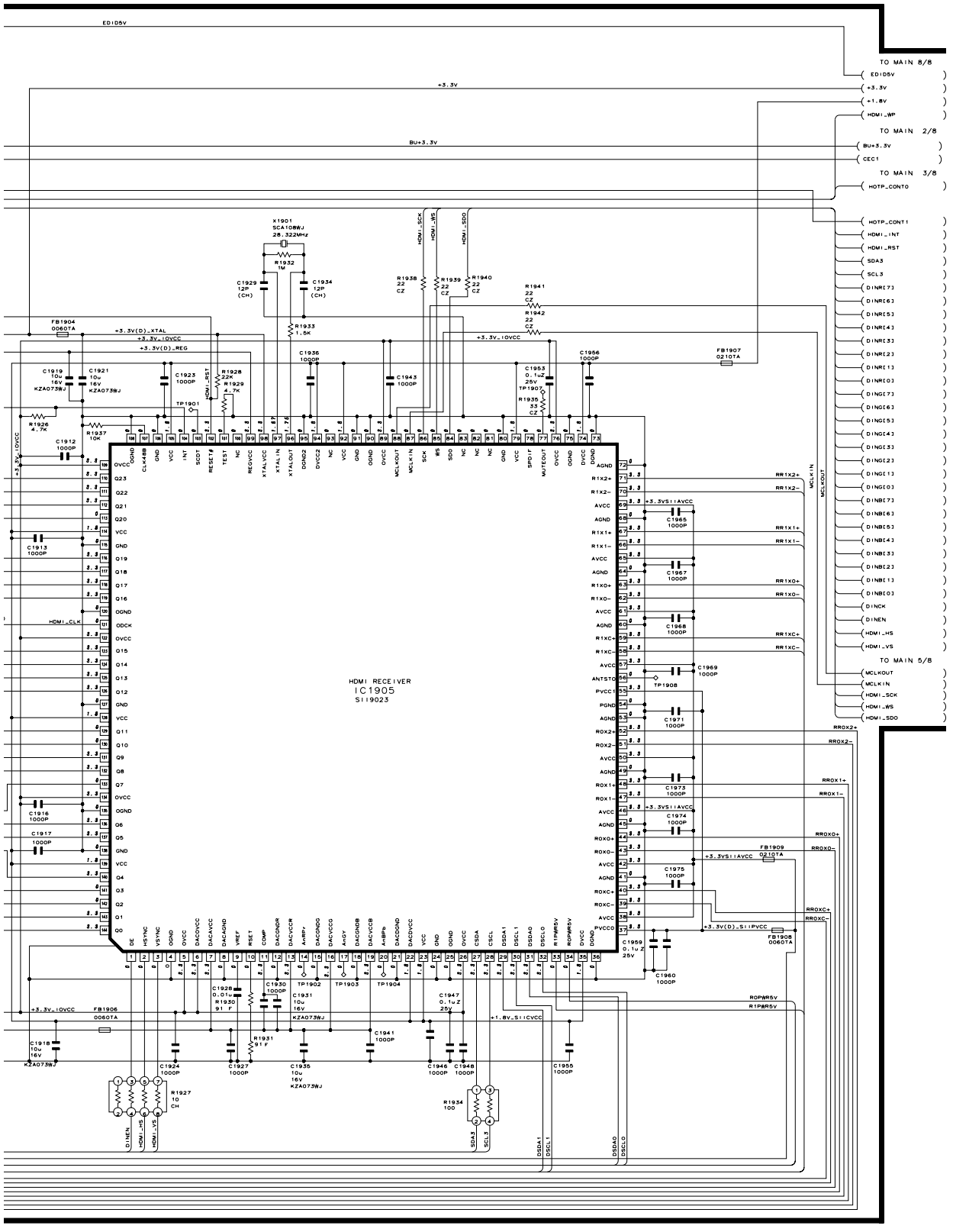
1.DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2.SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

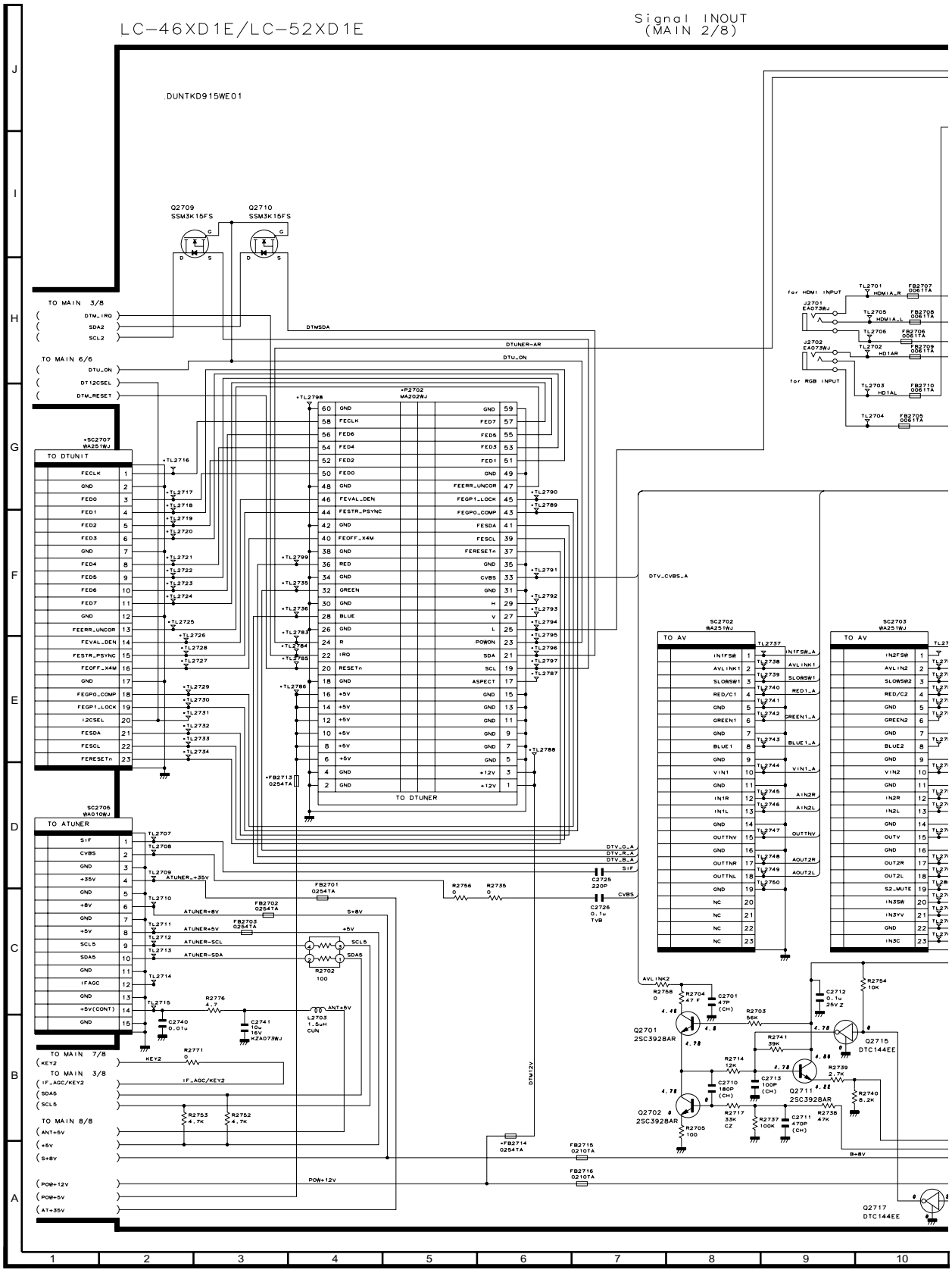
PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

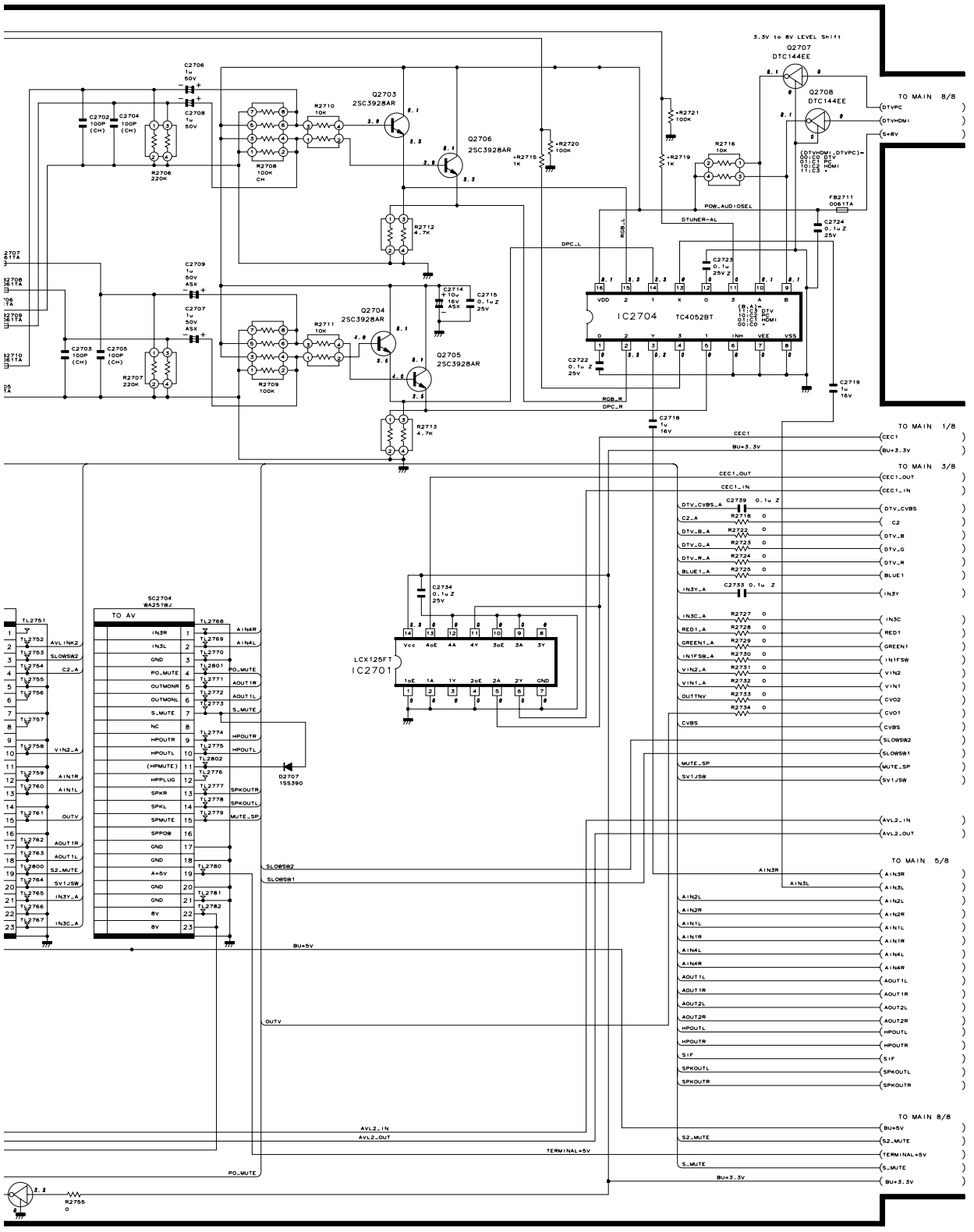
2. MAIN Unit-1/8



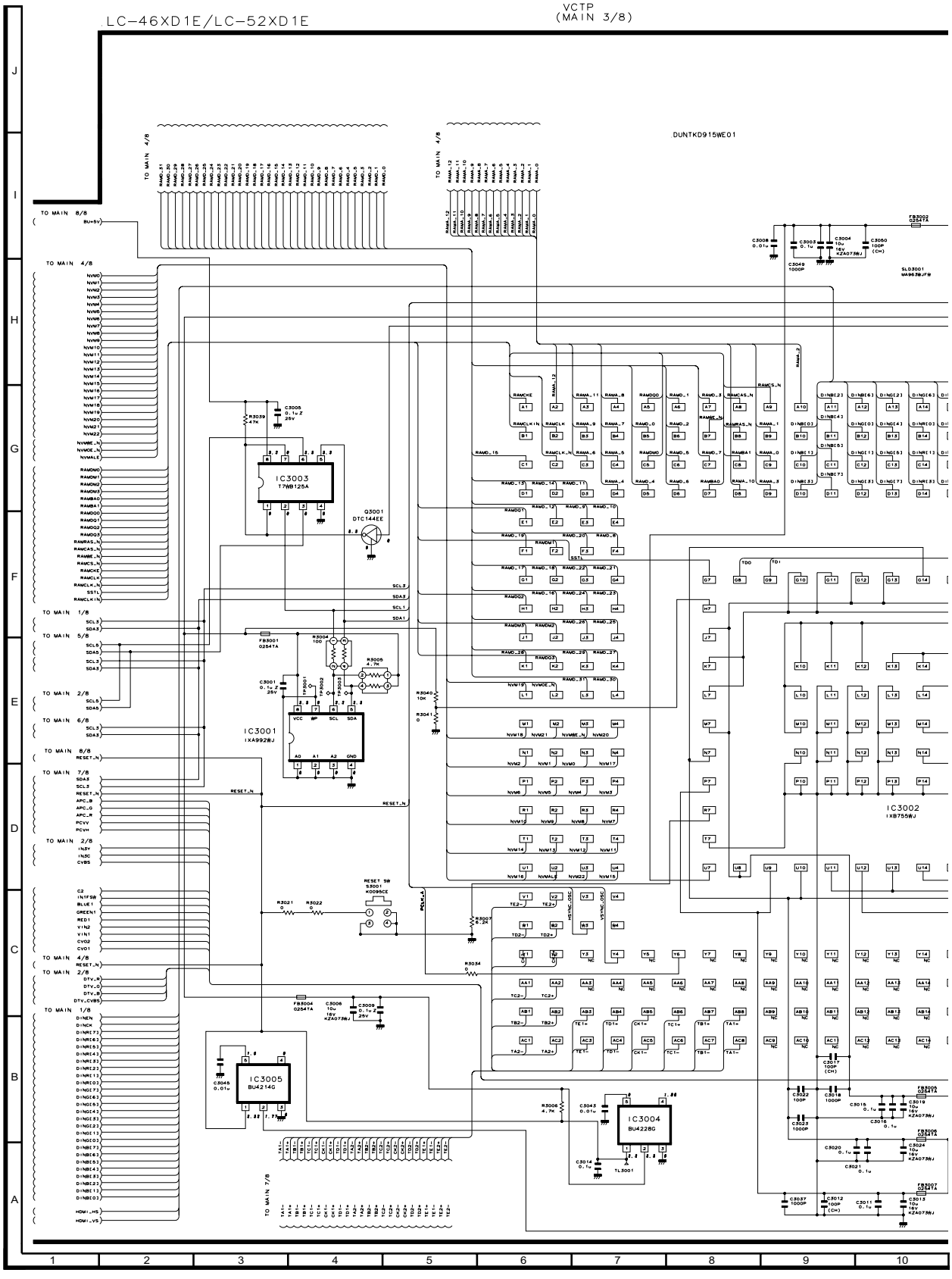

HDMI RECEIVER
IC1905
SII9023
TO MAIN 8/8
TO MAIN 2/8
TO MAIN 3/8
TO MAIN 5/8
EDID5V
+3.3V
BU+3.3V
+1.8V
HDMI_WP
CEC1
HOTP_CONT0
HOTP_CONT1
HDMI_INT
HDMI_RST
SDA3
SCL3
HDMI_SCK
HDMI_WS
HDMI_SDO
MCLKOUT
MCLKIN
HDMI_HS
HDMI_VS
HDMI_CLK
DINEN
+3.3V(D)_XTAL
+3.3V_IOVCC
+3.3V(D)_REG
+3.3VSIIAVCC
+3.3V(D)_SIIPVCC
+1.8V_SIICVCC
X1901
SCA108WJ
28.322MHz

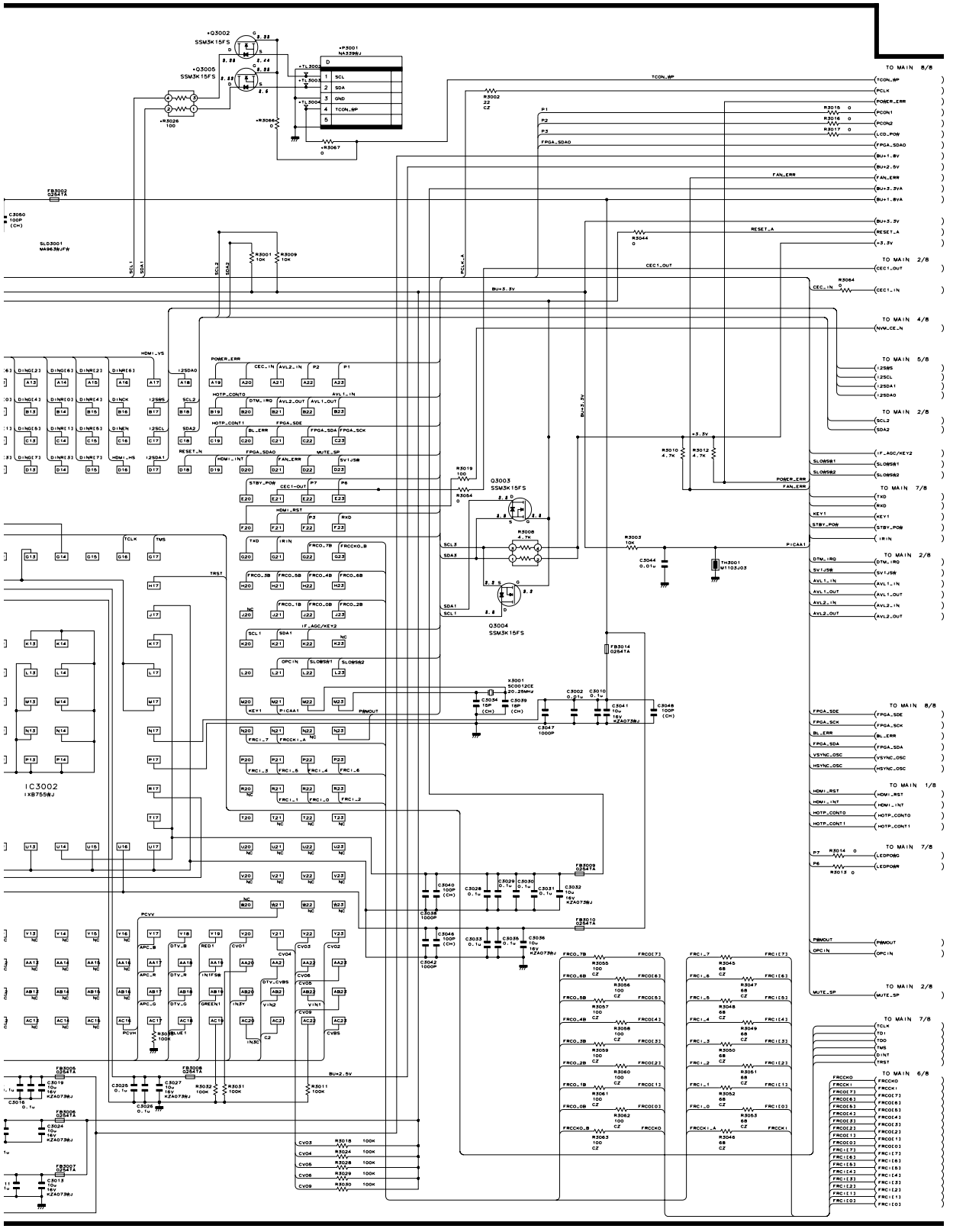
3. MAIN Unit-2/8



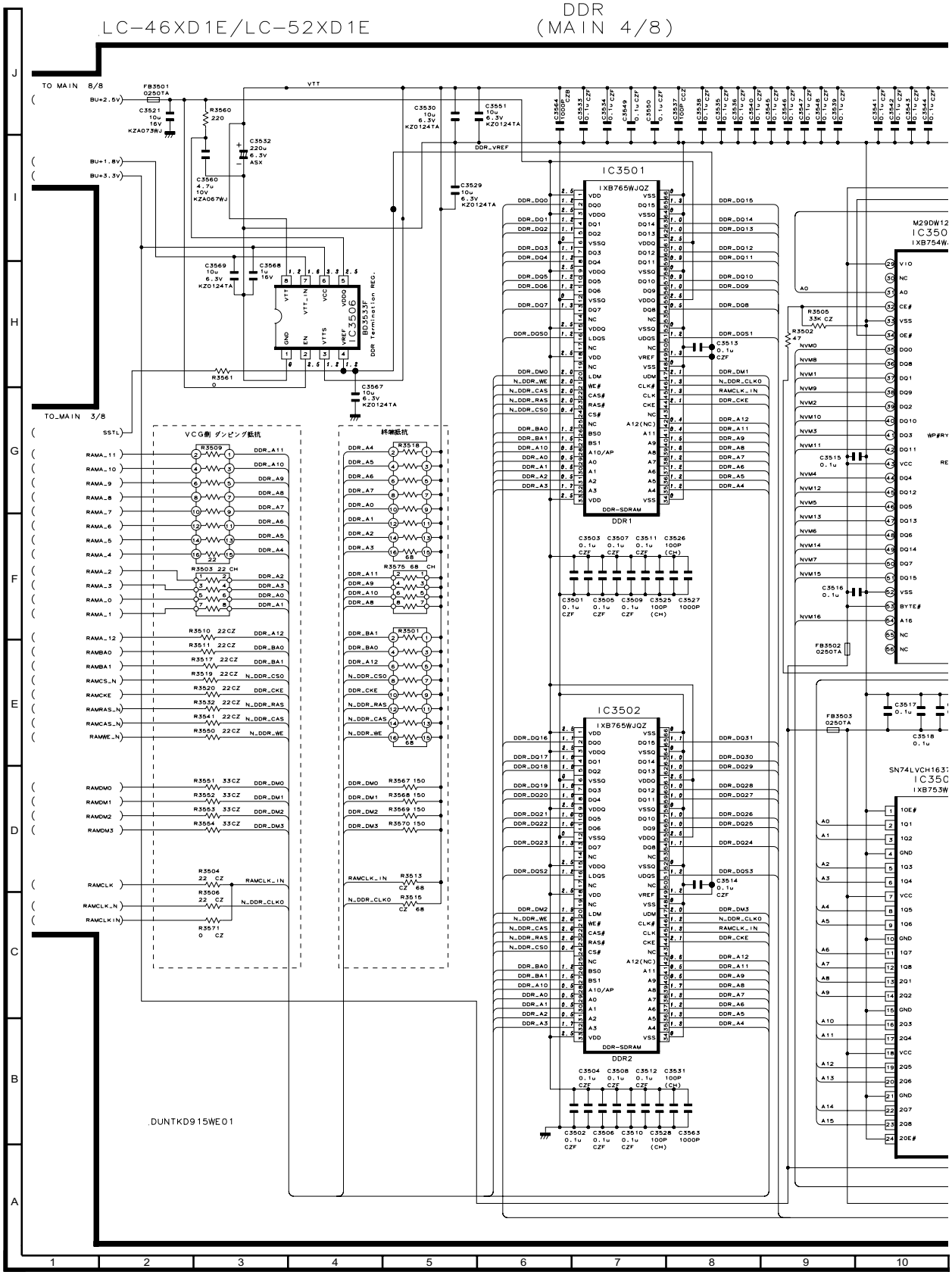

3.3V to 8V LEVEL Shift
Q2707
DTC144EE
Q2708
DTC144EE
Q2703
2SC3928AR
Q2706
2SC3928AR
Q2704
2SC3928AR
Q2705
2SC3928AR
IC2704
TC4052BT
IC2701
LCX125FT
SC2704
WA251WJ
TO AV
TO MAIN 8/8
TO MAIN 1/8
TO MAIN 3/8
TO MAIN 5/8
TO MAIN 8/8
DTVPC
DTVHDMI
5+8V
CEC1
BU+3.3V
CEC1_OUT
CEC1_IN
DTV_CVBS
C2
DTV_B
DTV_G
DTV_R
BLUE1
IN3Y
IN3C
RED1
GREEN1
IN1FSW
VIN2
VIN1
CVO2
CVO1
CVBS
SLOWSW2
SLOWSW1
MUTE_SP
SV1JSW
AVL2_IN
AVL2_OUT
AIN3R
AIN3L
AIN2L
AIN2R
AIN1L
AIN1R
AIN4L
AIN4R
AOUT1L
AOUT1R
AOUT2L
AOUT2R
HPOUTL
HPOUTR
SIF
SPKOUTL
SPKOUTR
BU+5V
S2_MUTE
TERMINAL+5V
S_MUTE
PO_MUTE
OUTV
DTUNER-AL
POW_AUDIOSEL
DPC_L
DPC_R
RGB_L
RGB_R
D2707
1SS390
R2755
0

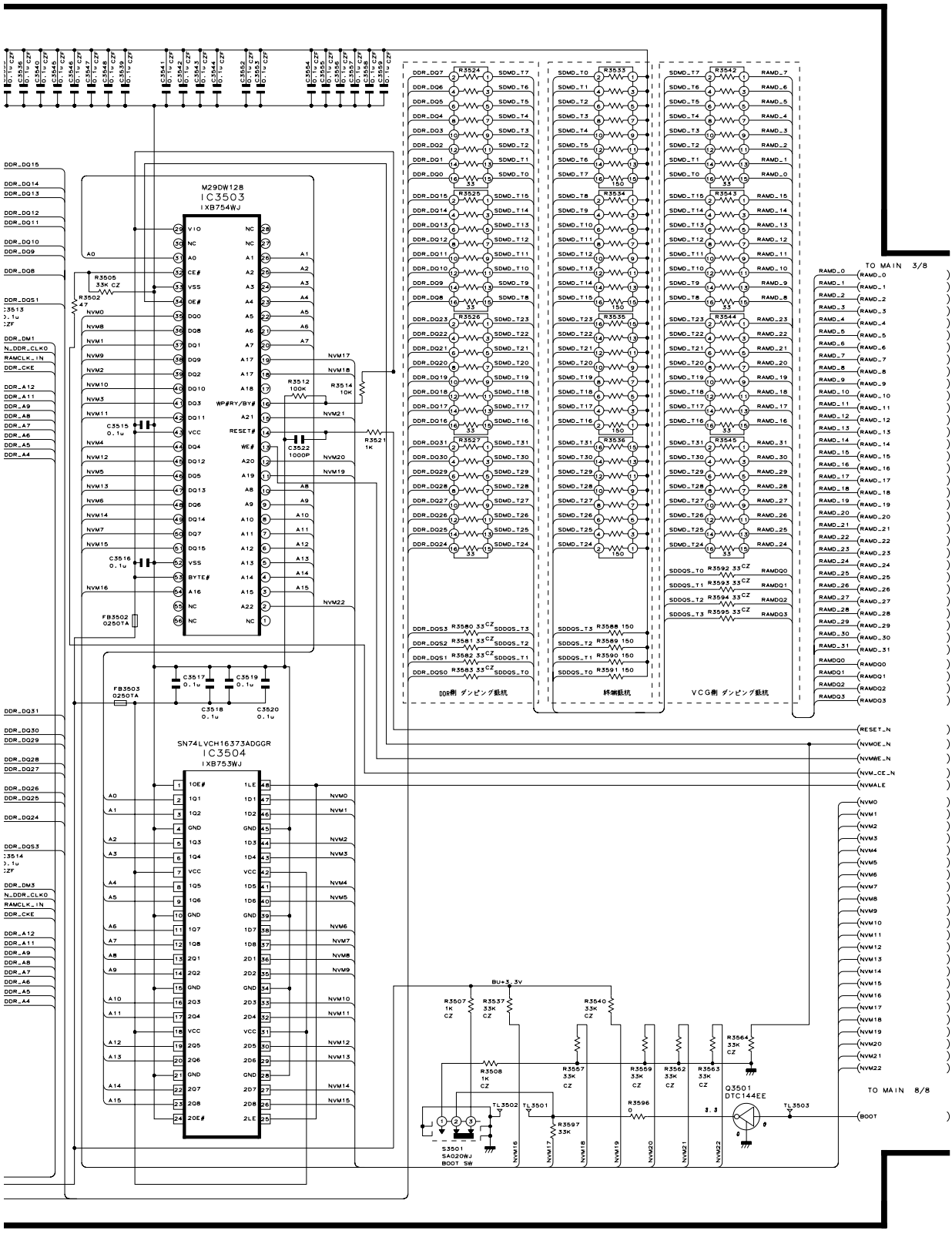
4. MAIN Unit-3/8



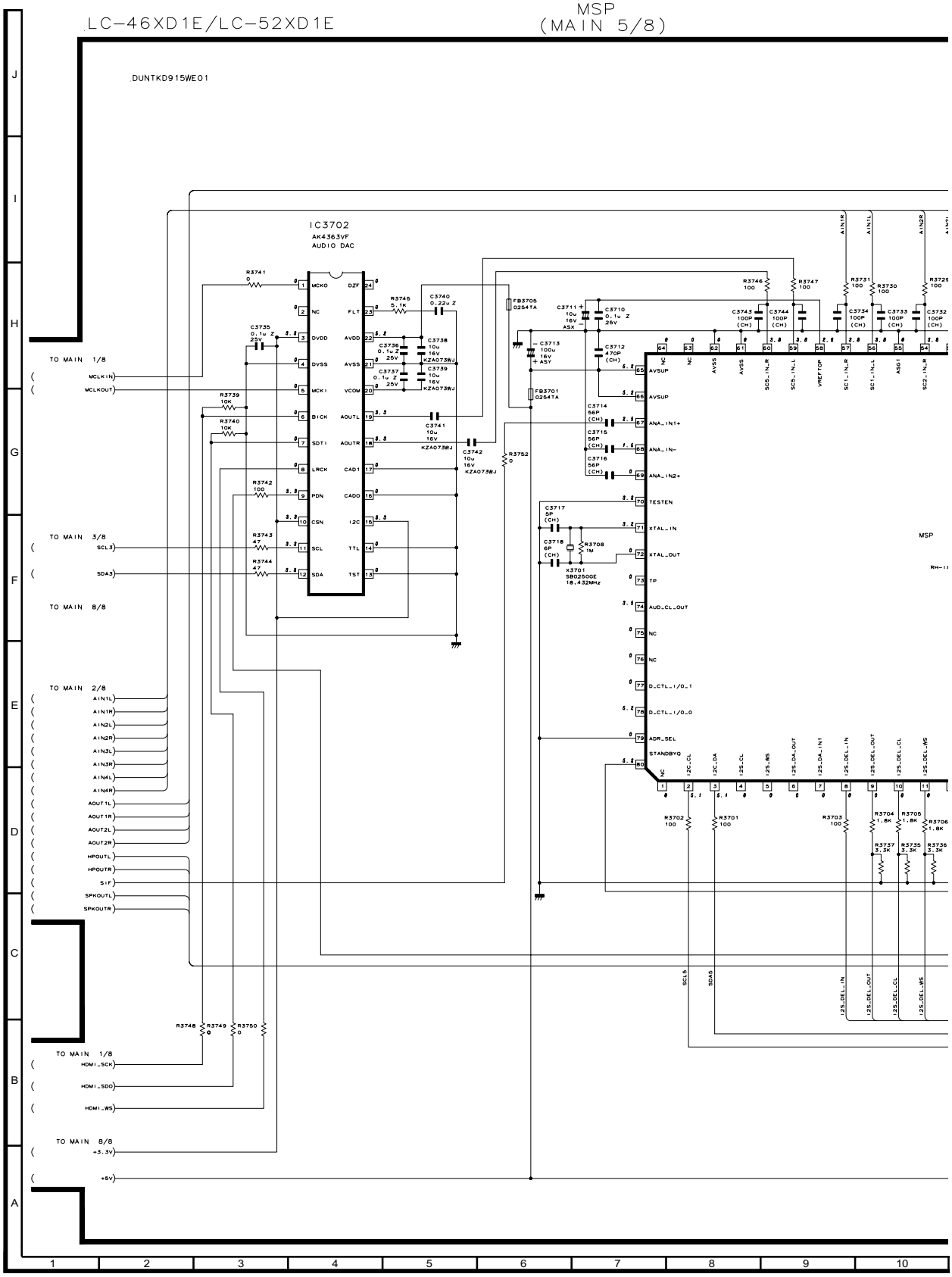


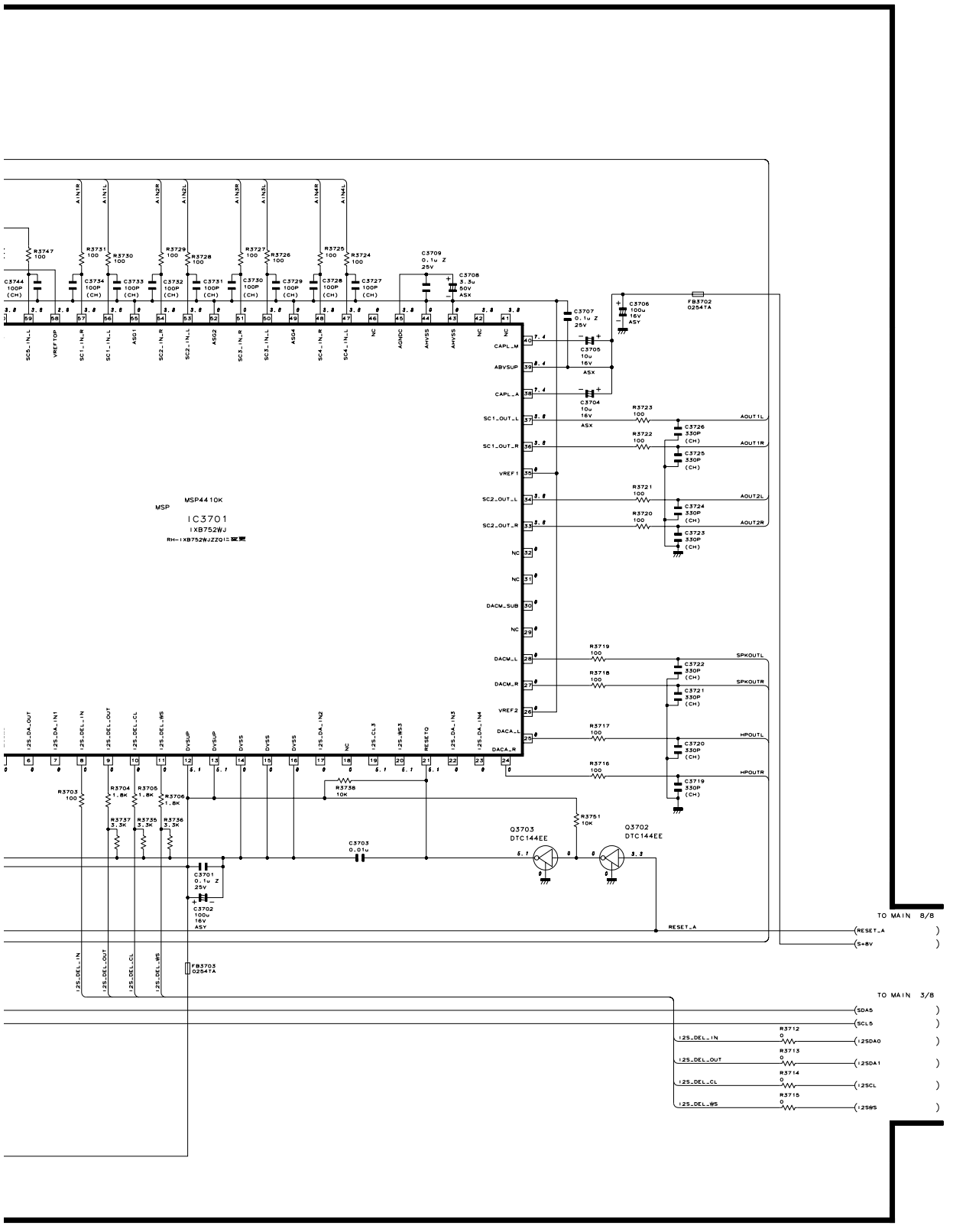
5. MAIN Unit-4/8



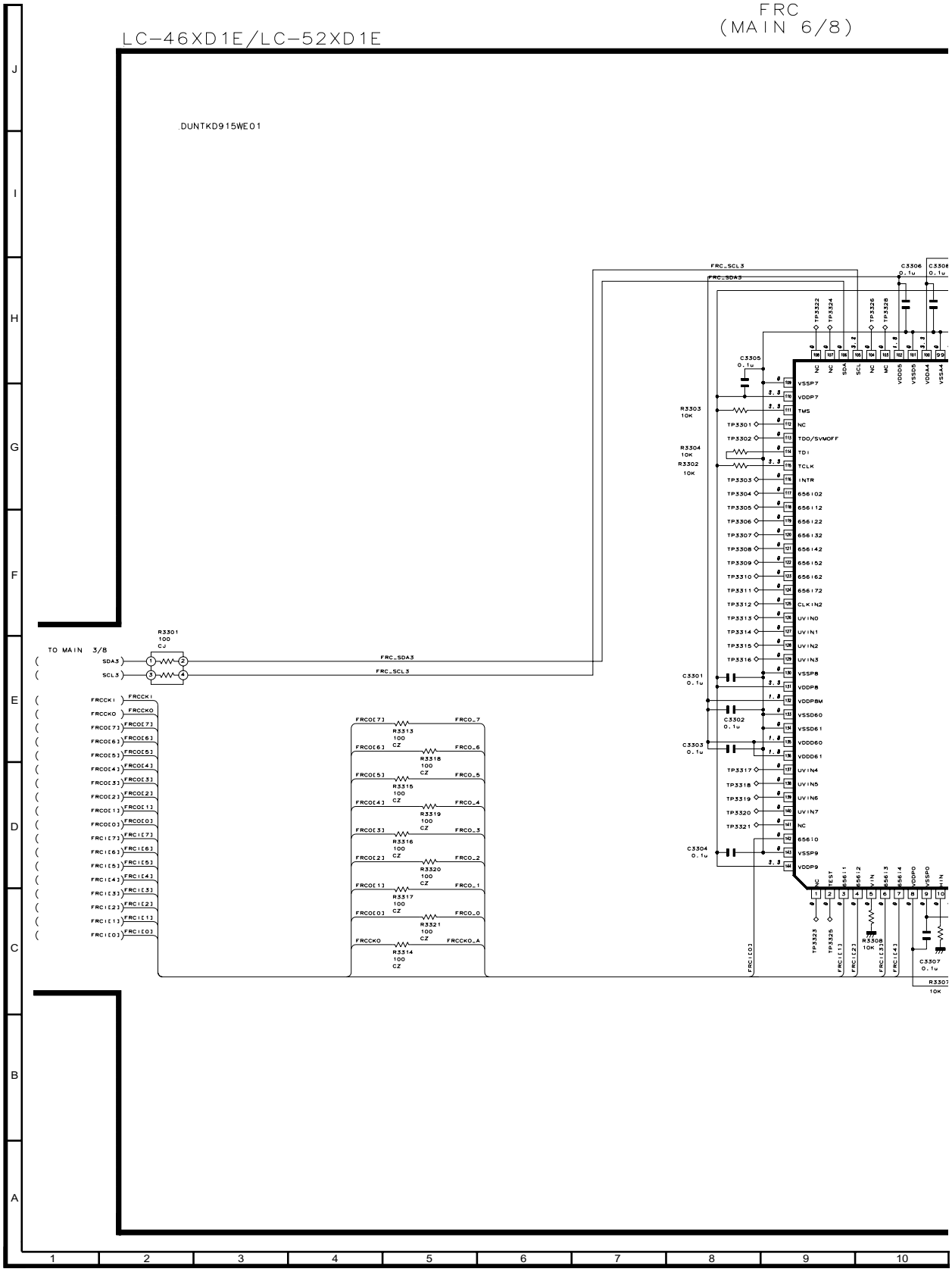

M29DW128
IC3503
IXB754WJ
SN74LVCH16373ADGGR
IC3504
IXB753WJ
DDR側 ダンピング抵抗
終端抵抗
VCG側 ダンピング抵抗
TO MAIN 3/8
TO MAIN 8/8
Q3501
DTC144EE
S3501
SA020WJ
BOOT SW
BU+3.3V

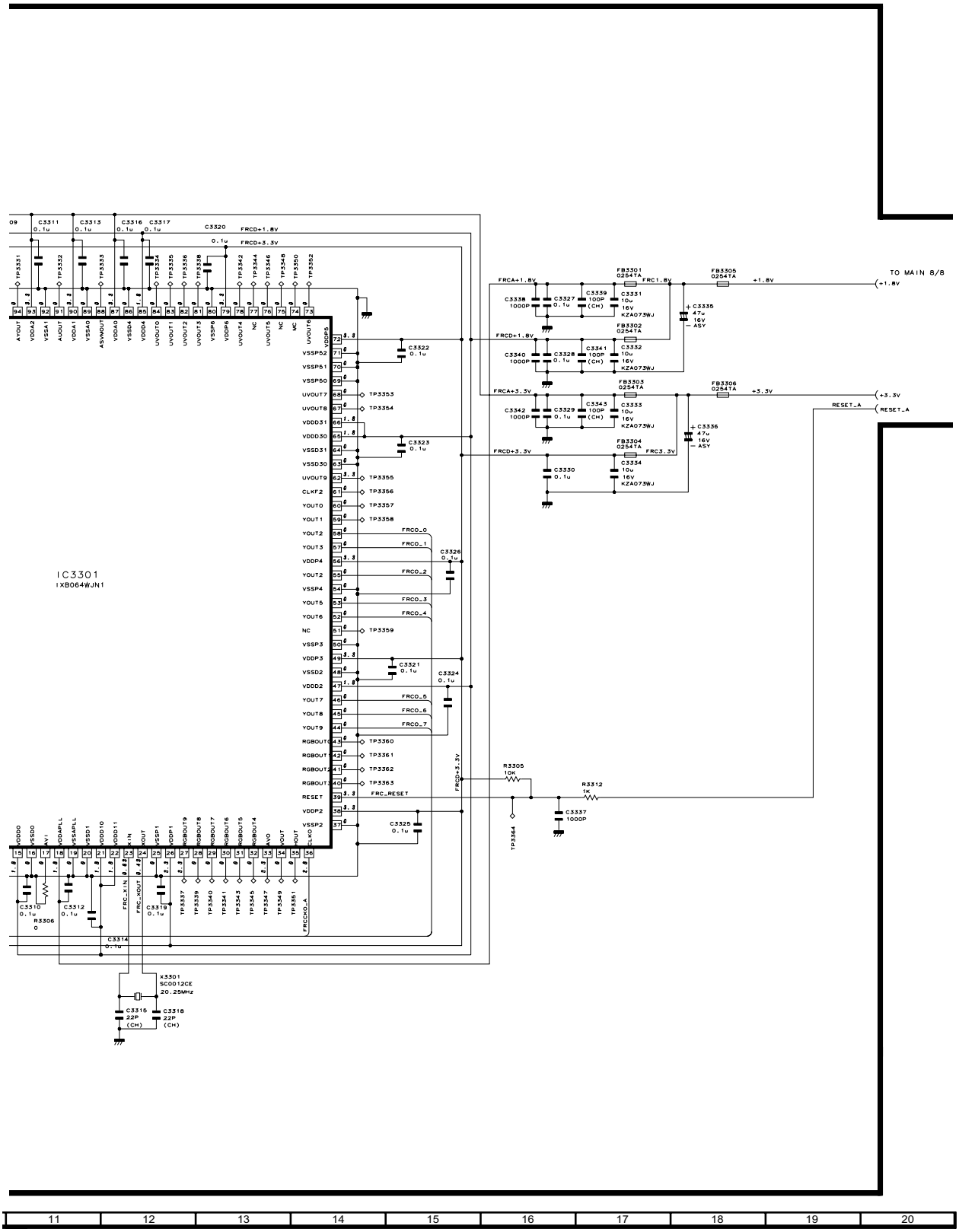
6. MAIN Unit-5/8



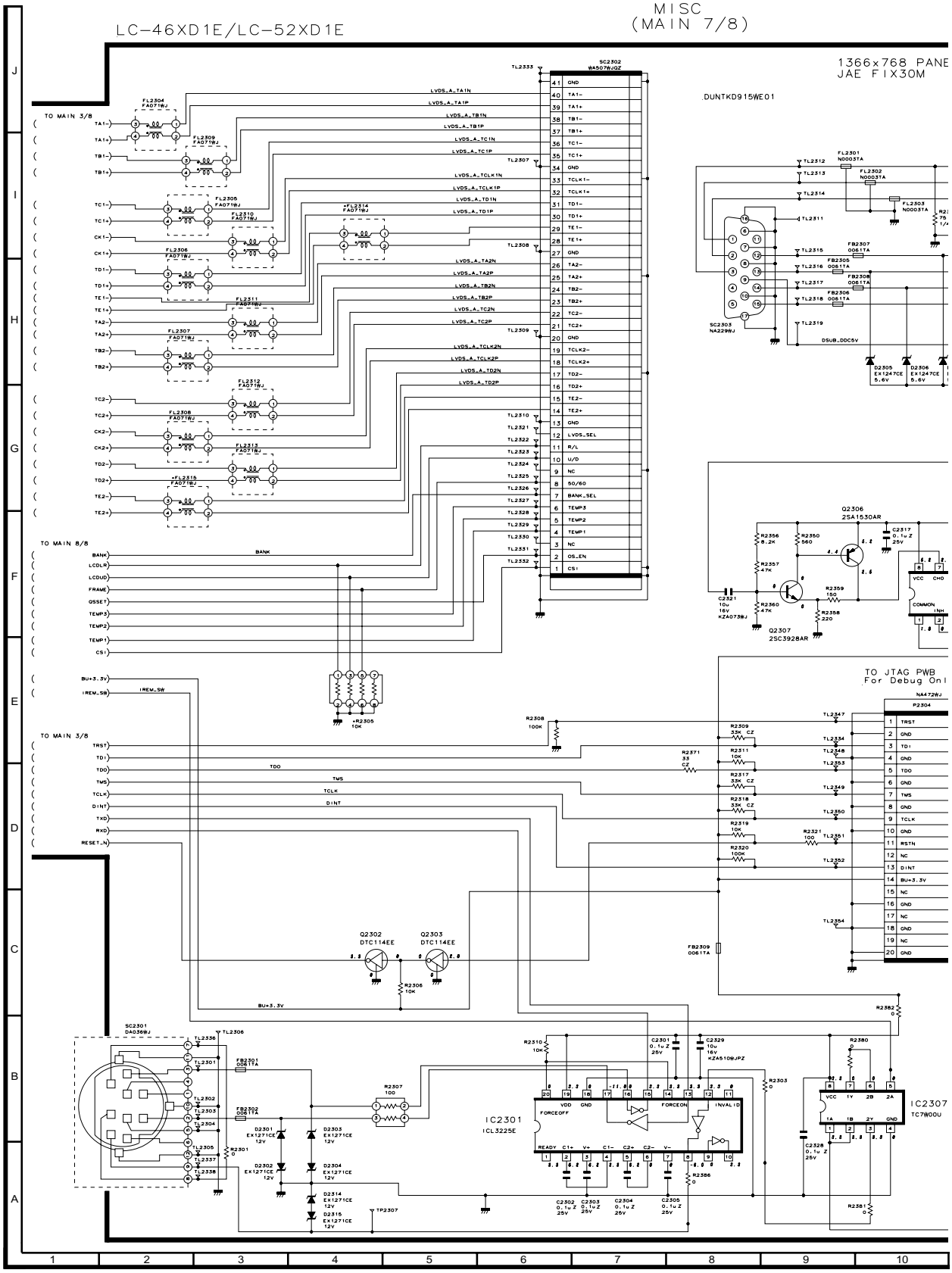

MSP
MSP4410K
IC3701
IXB752WJ
RH-IXB752WJZZQ1
TO MAIN 8/8
RESET_A
S+8V
TO MAIN 3/8
SDA5
SCL5
I2SDA0
I2SDA1
I2SCL
I2SWS
Q3703
DTC144EE
Q3702
DTC144EE
FB3702
0254TA
FB3703
0254TA

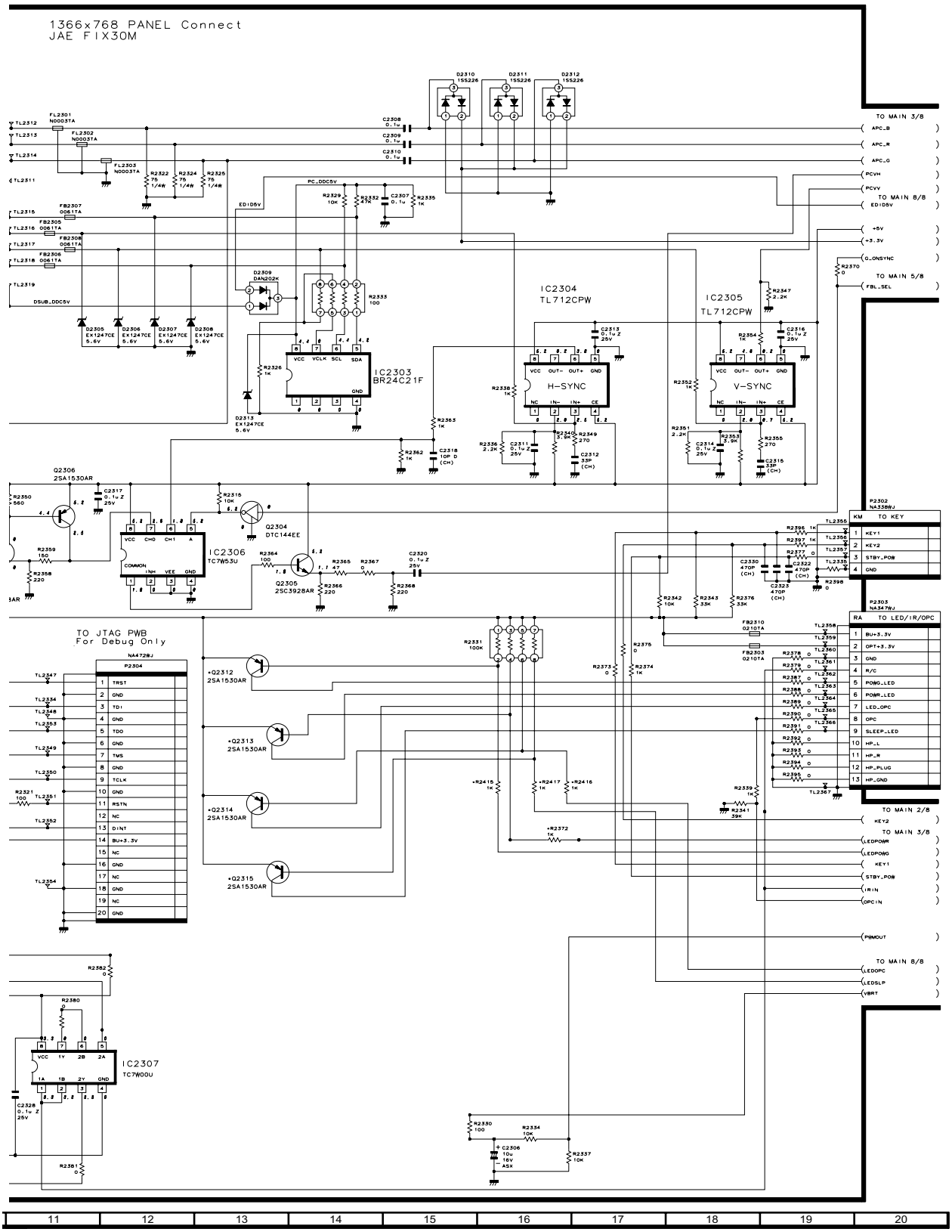
7. MAIN Unit-6/8



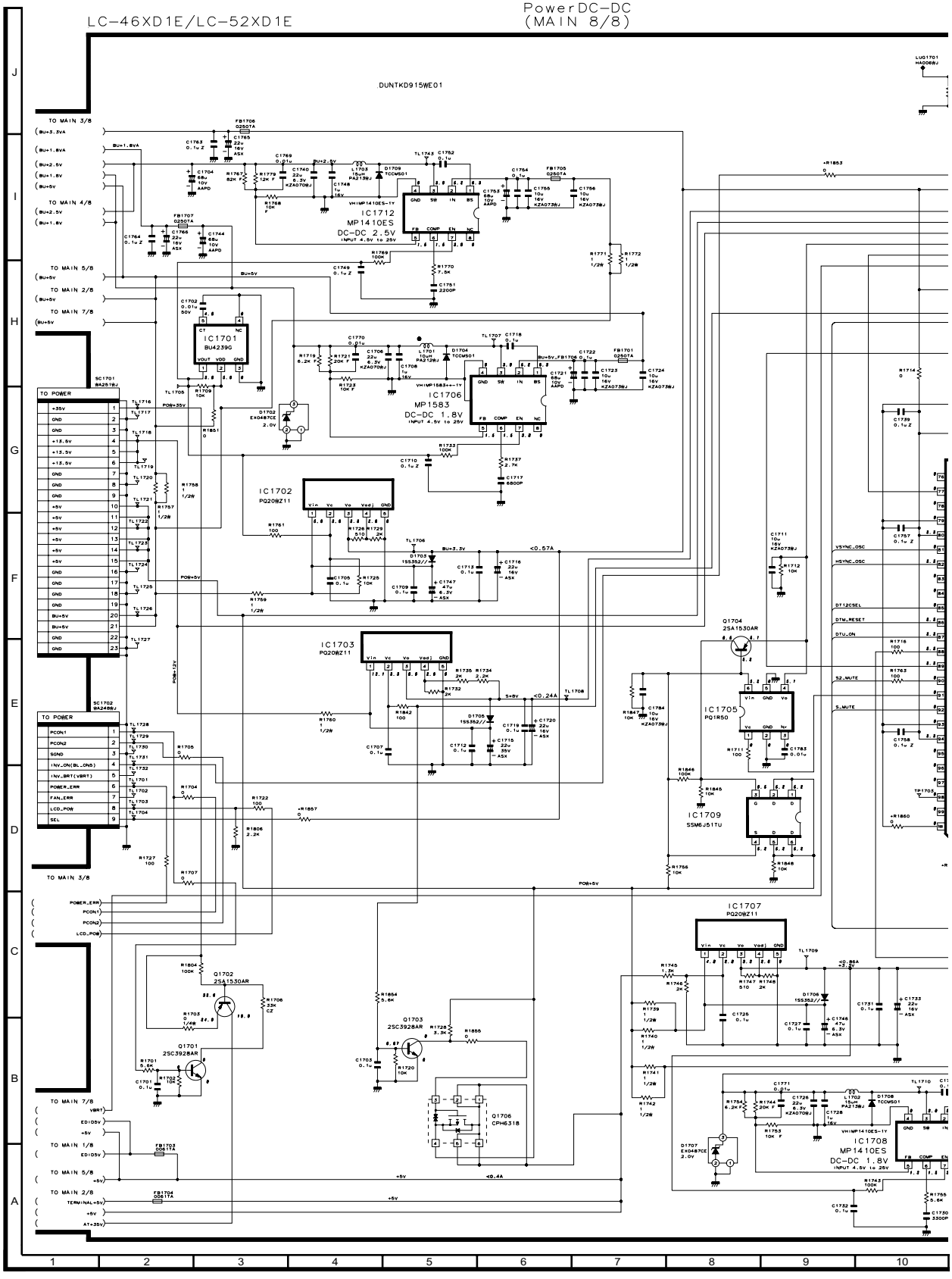

IC3301
IXB064WJN1
TO MAIN 8/8
FRCA+1.8V
FRCD+1.8V
FRCA+3.3V
FRCD+3.3V
FRC1.8V
FRC3.3V
+1.8V
+3.3V
RESET_A
FRC_RESET
FRC_XIN
FRC_XOUT
FRCCKO_A
X3301
SC0012CE
20.25MHz
R3305
10K
R3312
1K
R3306
0
C3337
1000P
C3314
0.1u
C3315
22P
(CH)
C3318
22P
(CH)

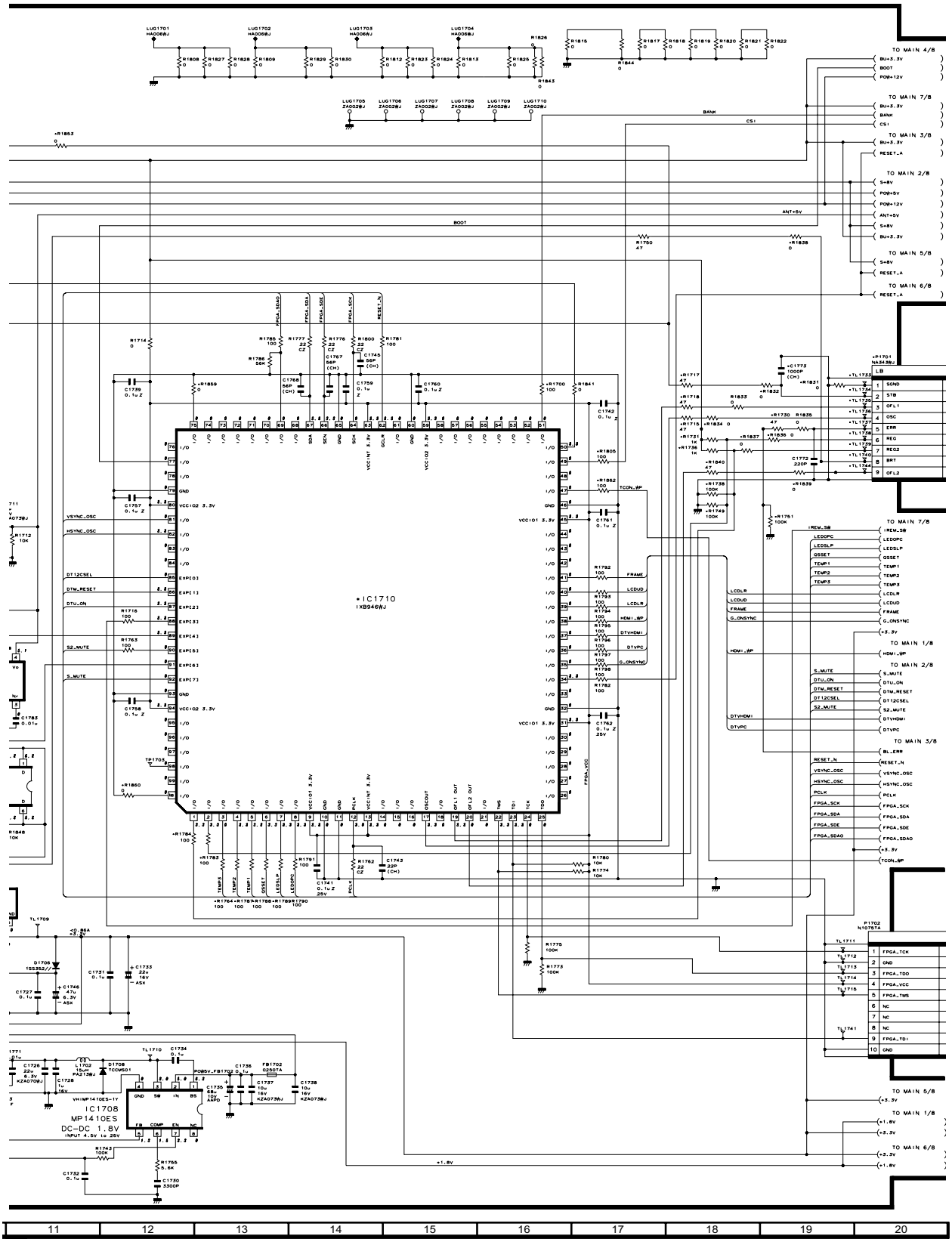
8. MAIN Unit-7/8



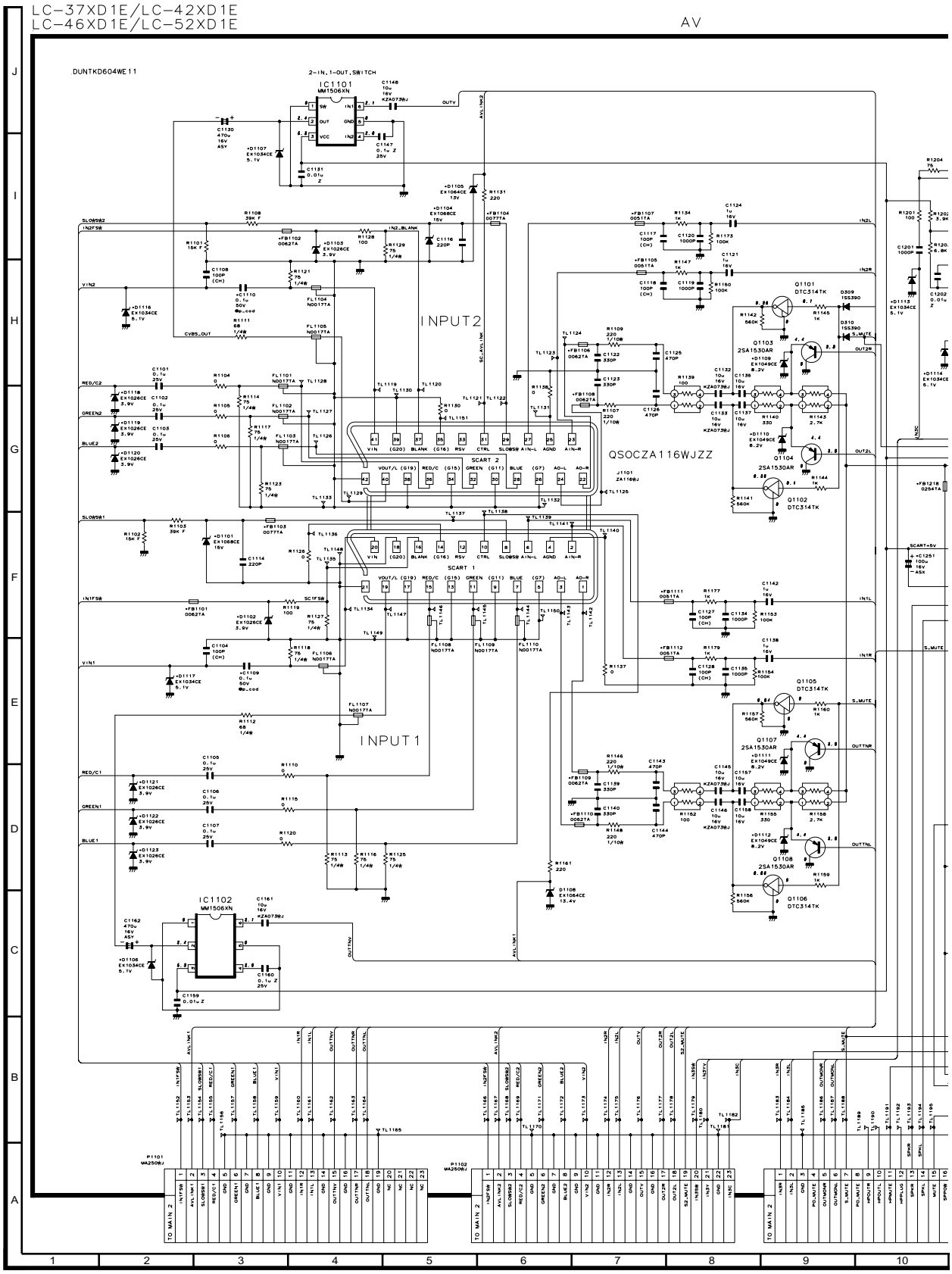

1366x768 PANEL Connect
JAE FIX30M
IC2303 BR24C21F
IC2304 TL712CPW
IC2305 TL712CPW
H-SYNC
V-SYNC
IC2306 TC7W53U
IC2307 TC7W00U
Q2304 DTC144EE
Q2305 2SC3928AR
Q2306 2SA1530AR
TO MAIN 3/8
TO MAIN 8/8
TO MAIN 5/8
TO MAIN 2/8
TO JTAG PWB For Debug Only
P2302 NA338WJ KM TO KEY
P2303 NA347WJ RA TO LED/IR/OPC
P2304 NA472WJ
KEY1
KEY2
STBY_POW
GND
BU+3.3V
OPT+3.3V
R/C
POWG_LED
POWR_LED
LED_OPC
OPC
SLEEP_LED
HP_L
HP_R
HP_PLUG
HP_GND
TRST
TDI
TDO
TMS
TCLK
RSTN
NC
DINT
BU+3.3V
PWMOUT
LEDOPC
LEDSLP
VBRT

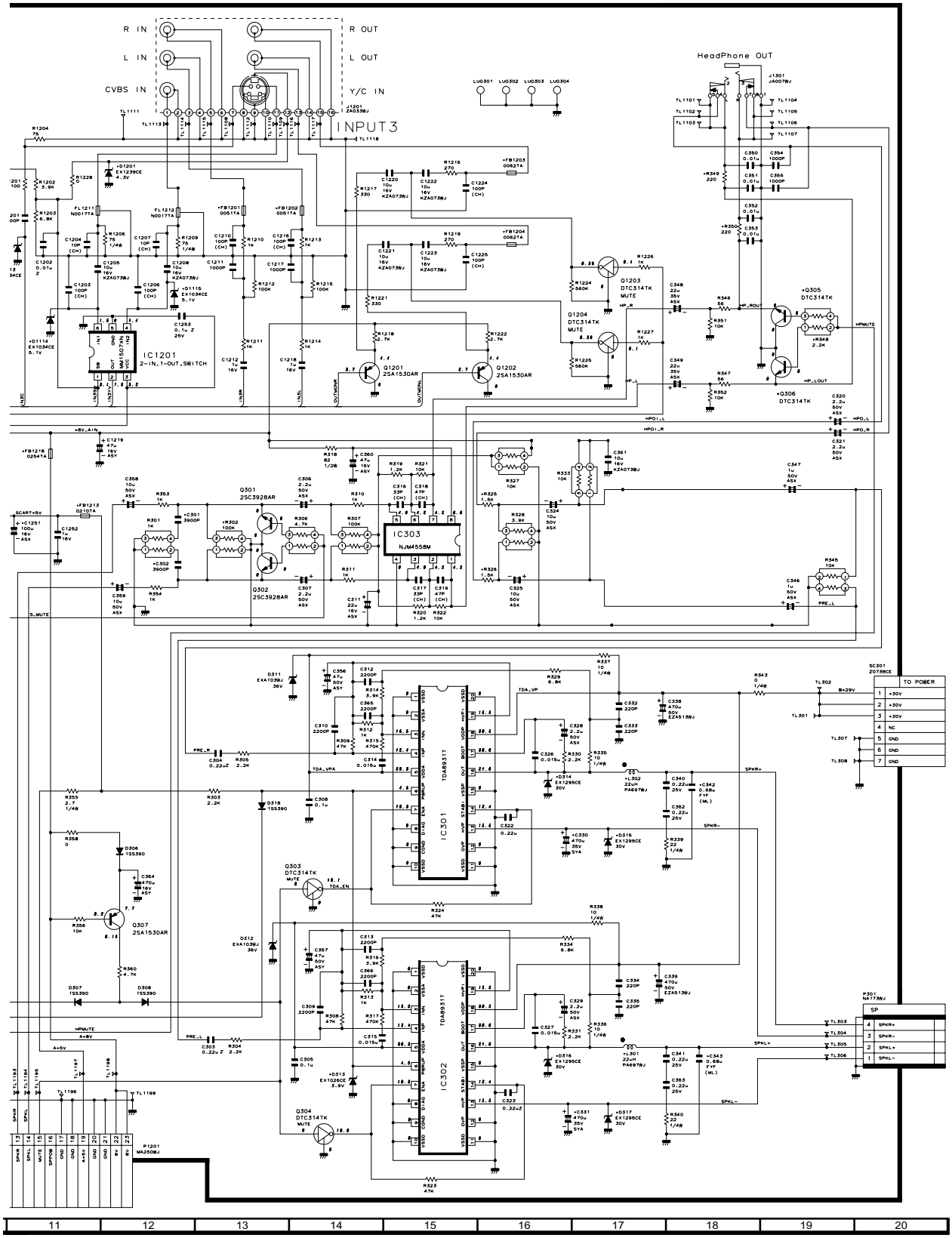
9. MAIN Unit-8/8



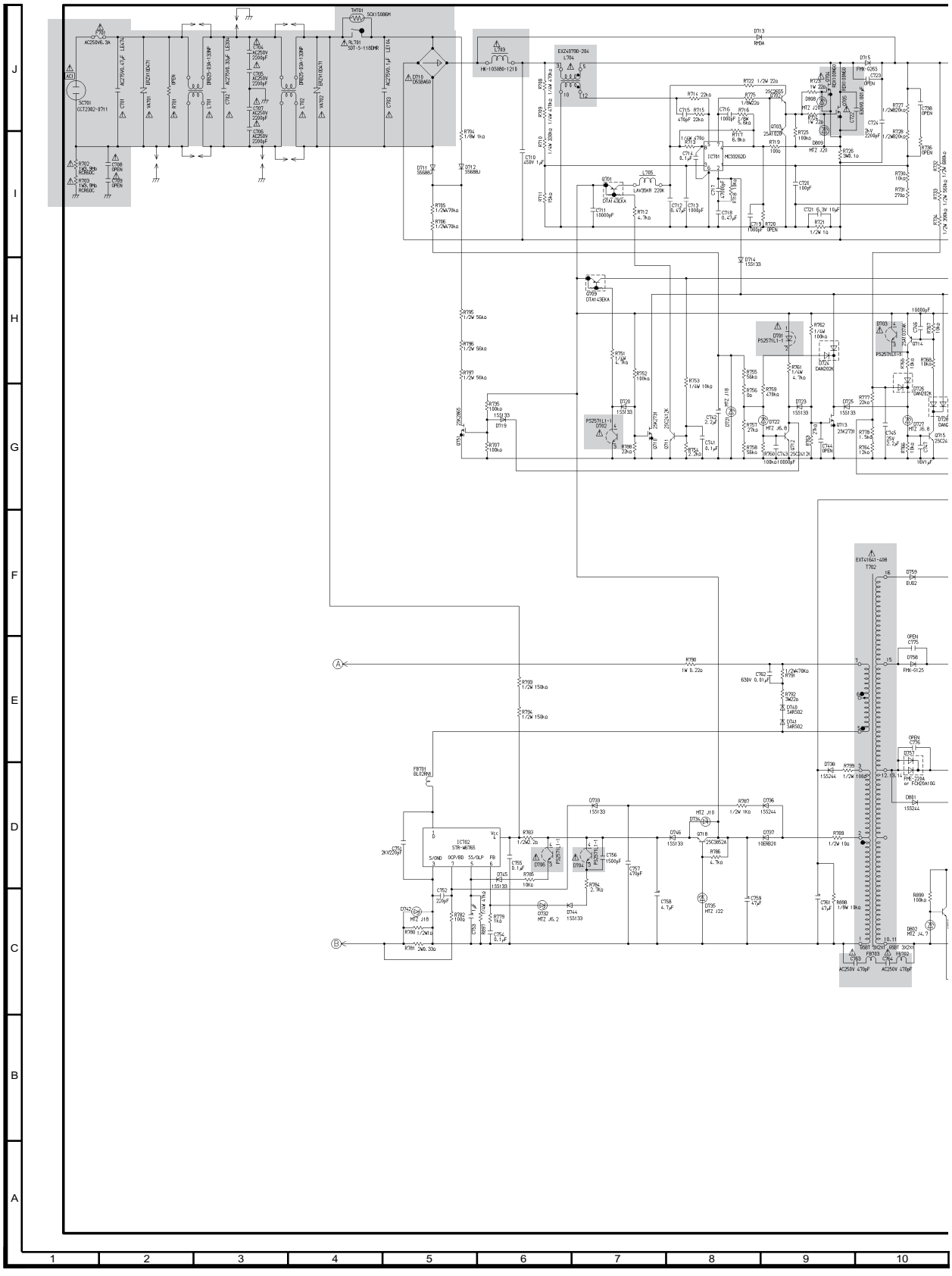

IC1710
IX3946WJ
IC1708
MP1410ES
DC-DC 1.8V
TO MAIN 4/8
TO MAIN 7/8
TO MAIN 3/8
TO MAIN 2/8
TO MAIN 5/8
TO MAIN 6/8
TO MAIN 1/8
P1702
N1076TA
LB
BANK
CS1
BOOT
ANT+5V
VSYNC_OSC
HSYNC_OSC
DT12CSEL
DTM_RESET
DTU_ON
S2_MUTE
S_MUTE
FRAME
LCDUD
LCDLR
HDMI_WP
DTVHDMI
DTVPC
G_ONSYNC
TCON_WP
FPGA_SCK
FPGA_SDA
FPGA_SDE
FPGA_SDAO
FPGA_TCK
FPGA_TDO
FPGA_VCC
FPGA_TMS
FPGA_TDI
PCLK
RESET_N
BL_ERR
+1.8V
+3.3V
+5V

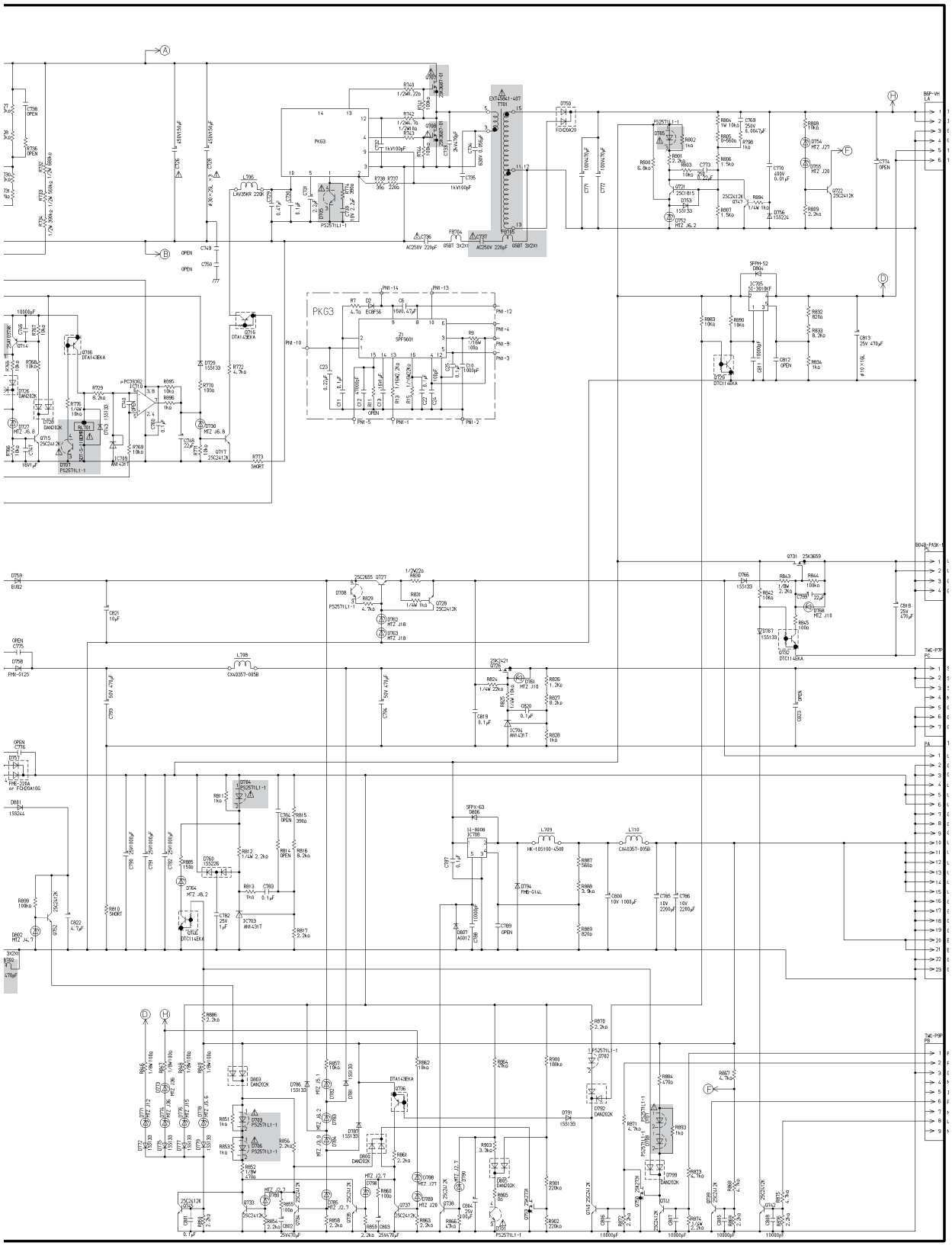
10. AV Unit


LC-37XD1E/LC-42XD1E
LC-46XD1E/LC-52XD1E
AV
DUNTKD604WE11
2-IN,1-OUT,SWITCH
IC1101
MM1506XN
IC1102
MM1506XN
INPUT1
INPUT2
SCART 1
SCART 2
QSOCZA116WJZZ
Q1101
DTC314TK
Q1102
DTC314TK
Q1103
2SA1530AR
Q1104
2SA1530AR
Q1105
DTC314TK
Q1106
DTC314TK
Q1107
2SA1530AR
Q1108
2SA1530AR
TO MAIN 2


R IN
L IN
CVBS IN
R OUT
L OUT
Y/C IN
INPUT3
HeadPhone OUT
IC1201
2-IN,1-OUT,SWITCH
IC303
NJM4558M
IC301
TDA8931T
IC302
TDA8931T
Q1201
2SA1530AR
Q1202
2SA1530AR
Q1203
DTC314TK
MUTE
Q1204
DTC314TK
MUTE
Q301
2SC3928AR
Q302
2SC3928AR
Q303
DTC314TK
MUTE
Q304
DTC314TK
MUTE
Q307
2SA1530AR
+Q305
DTC314TK
+Q306
DTC314TK
TO POWER
SP
P1201
MA250WJ
P301
NA17WJ
SC301
Z0736CE
HPMUTE
S_MUTE
SCART+5V
+8V_AIN
A+8V
A+5V
TDA_VP
TDA_VPA
TDA_EN
SPKR+
SPKR-
SPKL+
SPKL-
HP_ROUT
HP_LOUT
HPO_L
HPO_R
PRE_L
PRE_R

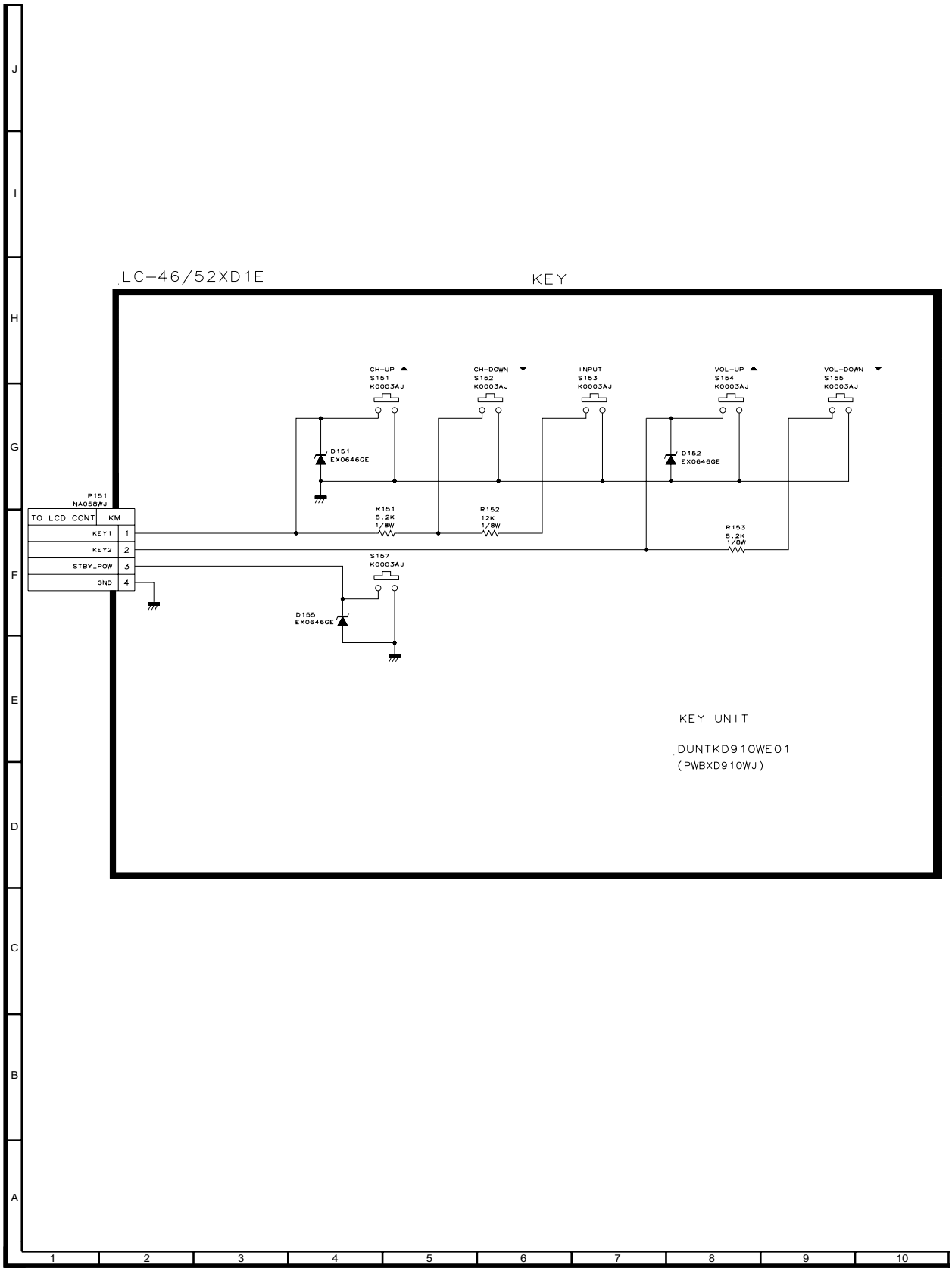
11. POWER Unit



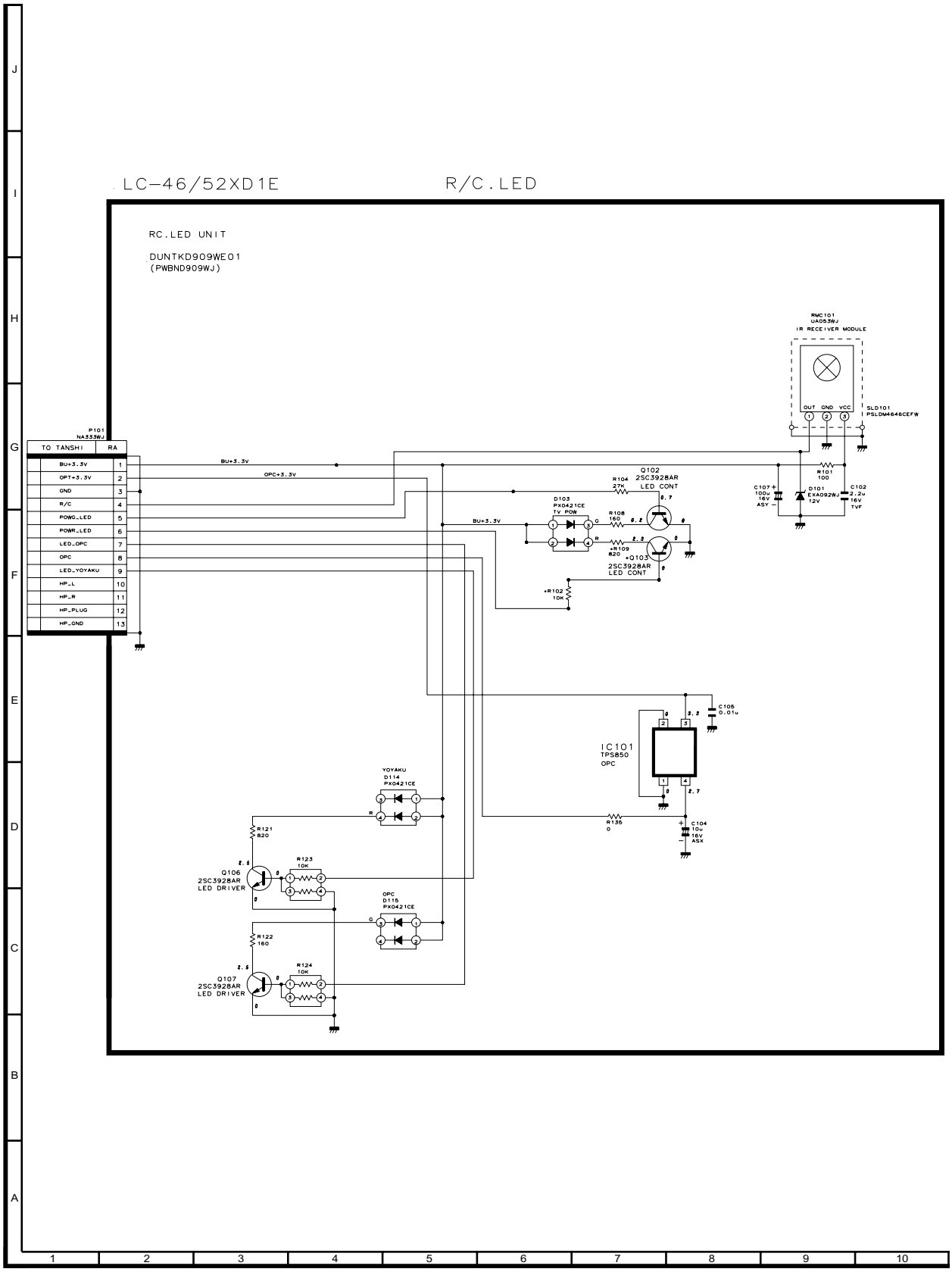


11	12	13	14	15	16	17	18	19	20

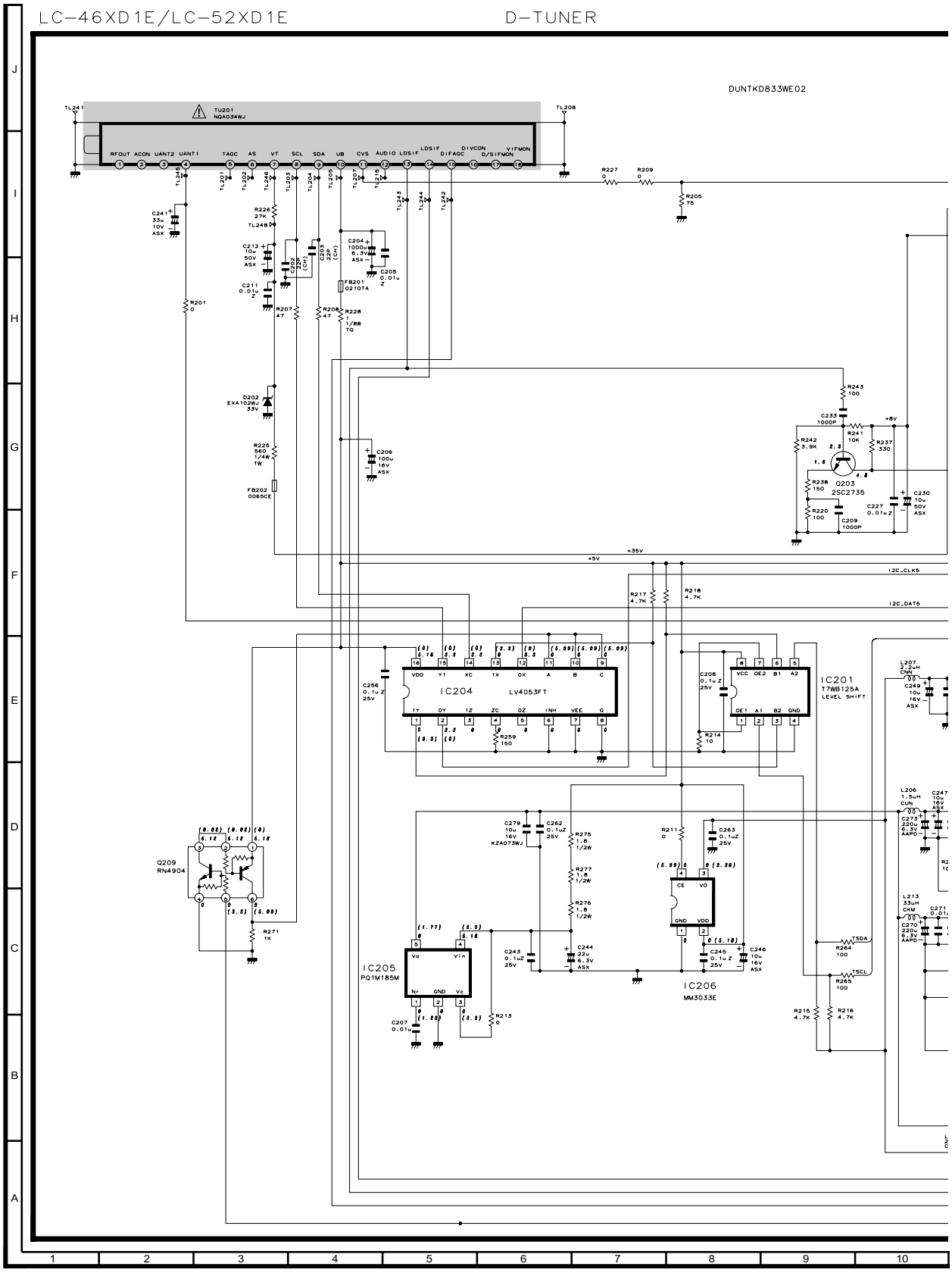
12. KEY Unit

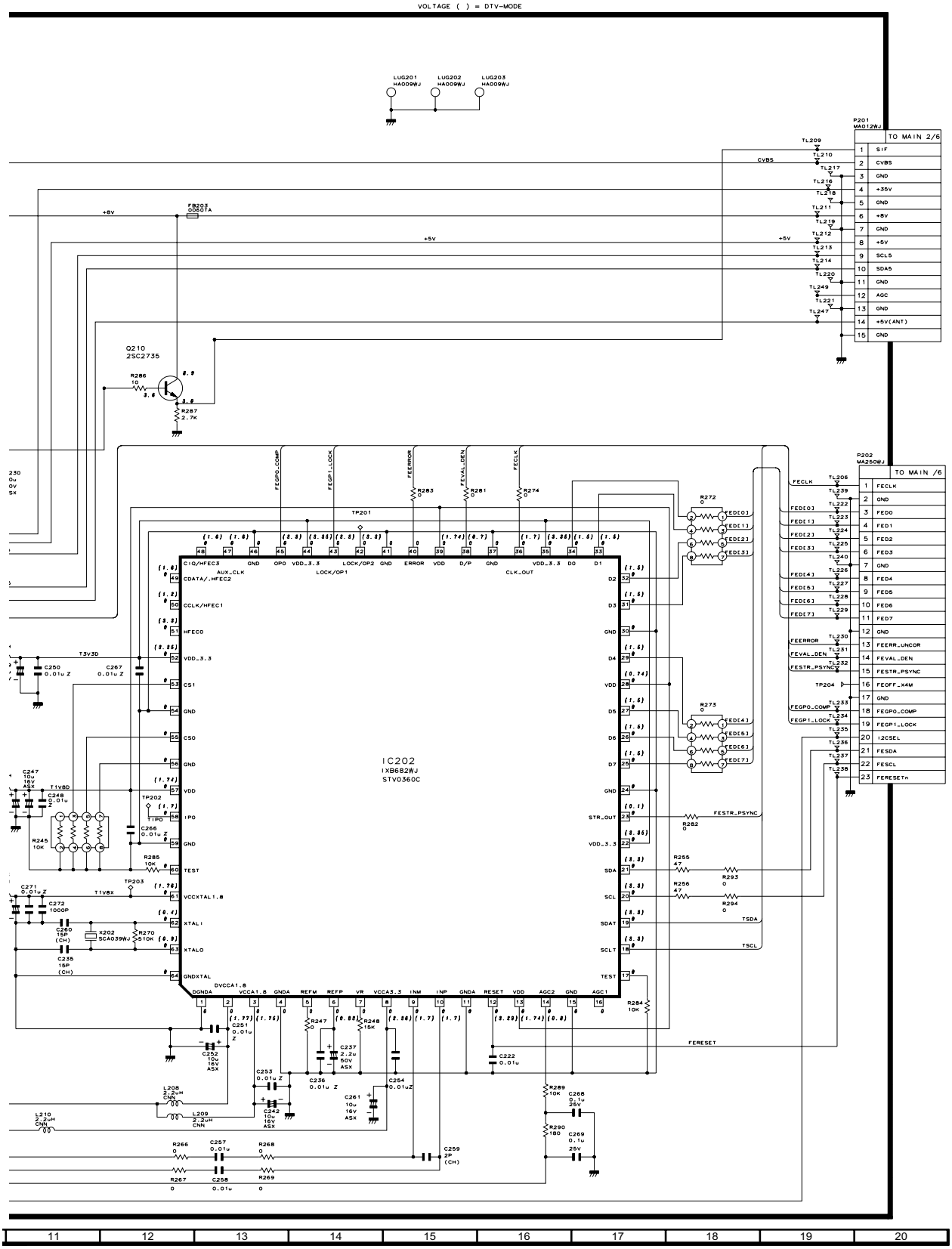

LC-46/52XD1E
KEY
CH-UP
S151
K0003AJ
CH-DOWN
S152
K0003AJ
INPUT
S153
K0003AJ
VOL-UP
S154
K0003AJ
VOL-DOWN
S155
K0003AJ
D151
EX0646GE
D152
EX0646GE
P151
NA058WJ
TO LCD CONT
KM
KEY1
KEY2
STBY_POW
GND
1
2
3
4
R151
8.2K
1/8W
R152
12K
1/8W
R153
8.2K
1/8W
S157
K0003AJ
D155
EX0646GE
KEY UNIT
DUNTKD910WE01
(PWBXD910WJ)

13. R/C, LED Unit

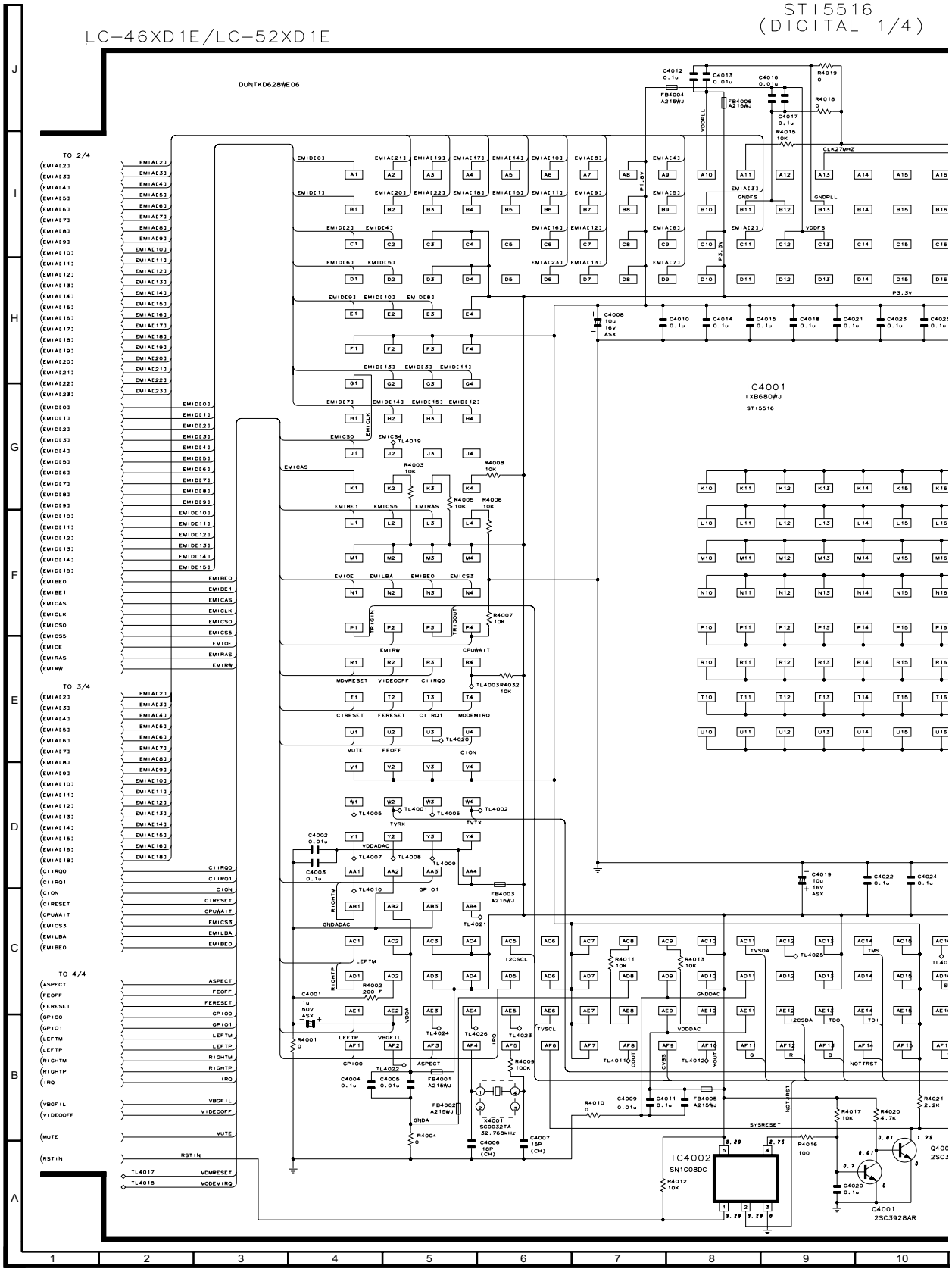


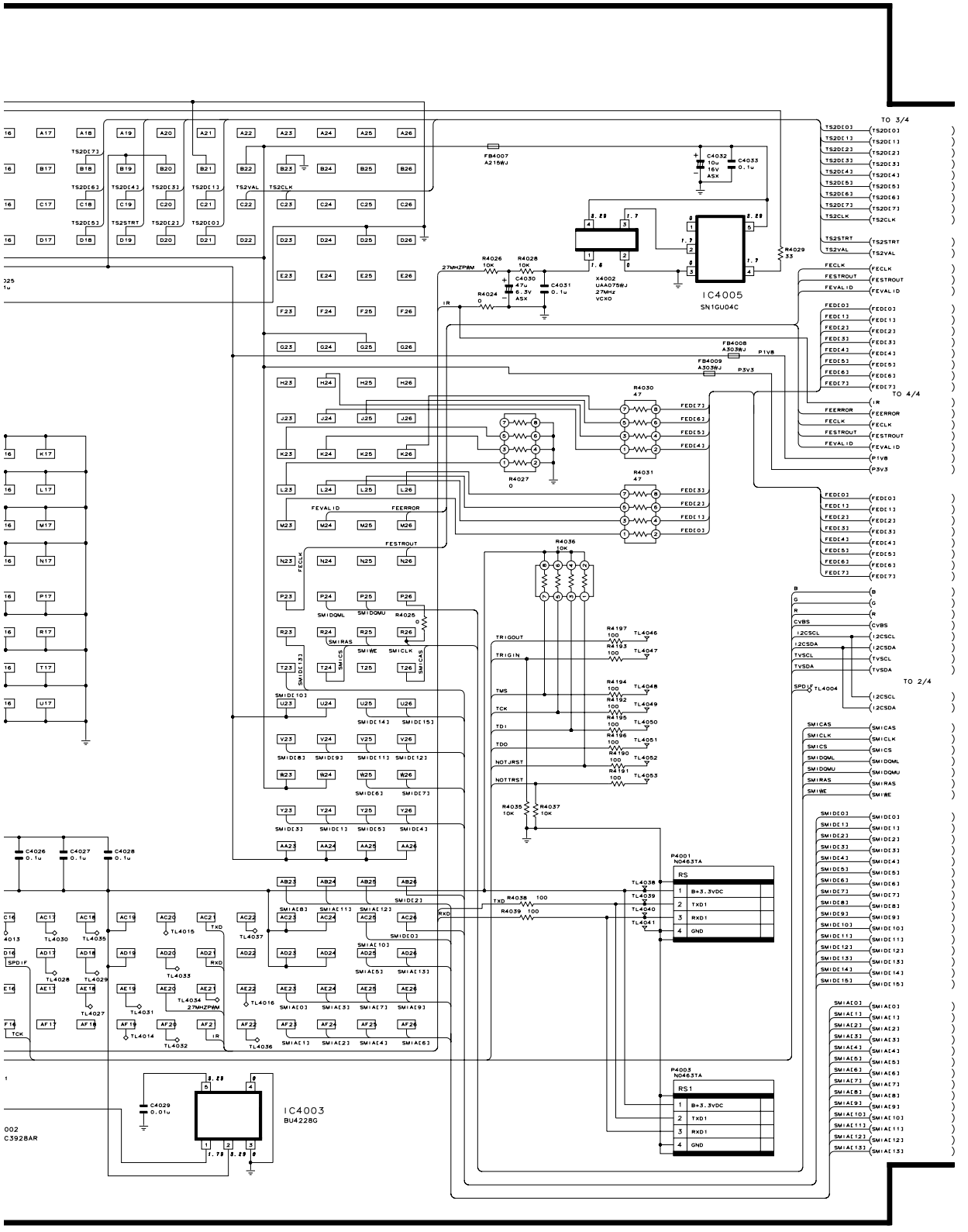
14. DIGITAL TUNER Unit



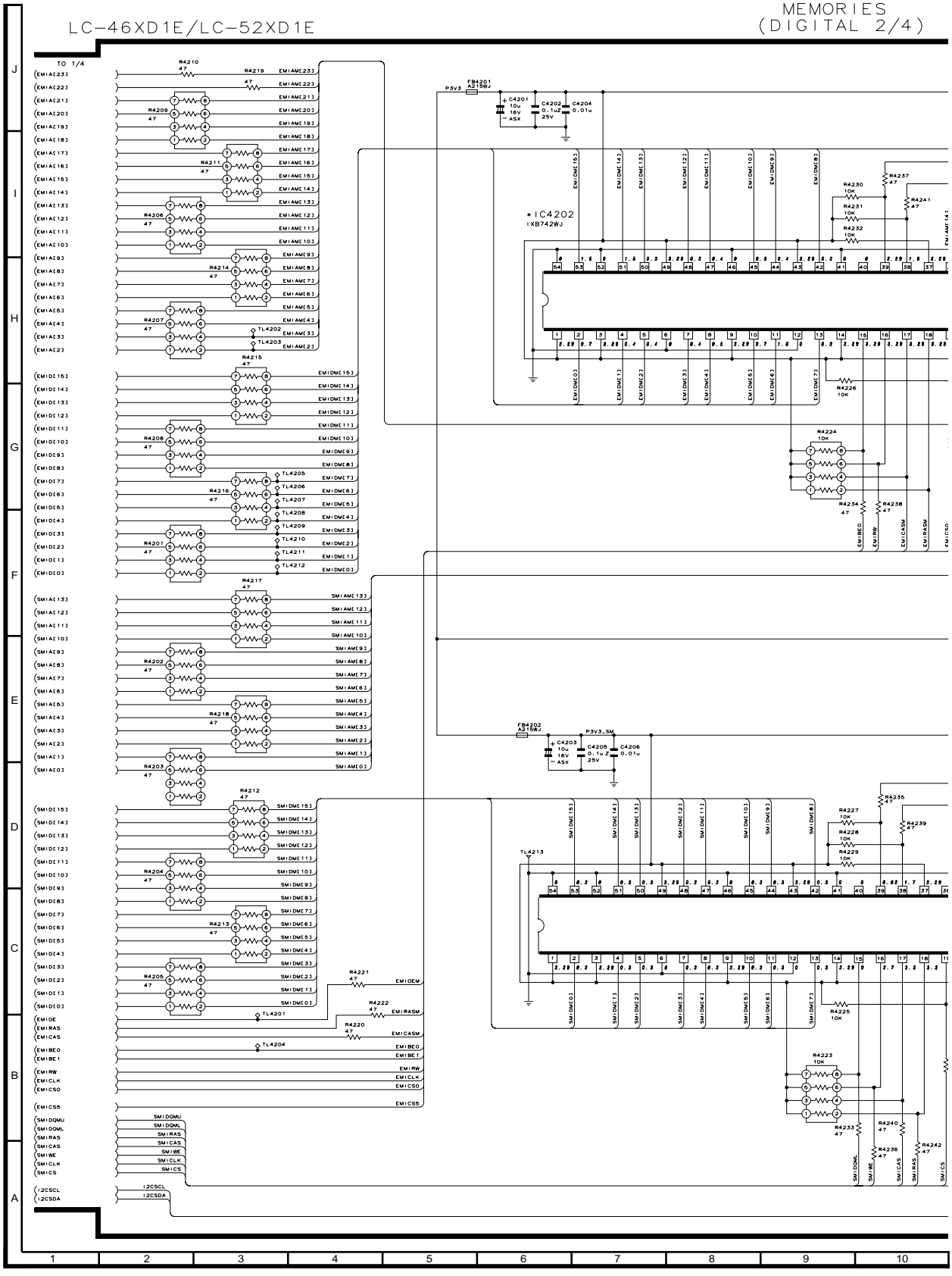

VOLTAGE ( ) = DTV-MODE
LUG201 HA009WJ
LUG202 HA009WJ
LUG203 HA009WJ
P201 MA012WJ
TO MAIN 2/6
1 SIF
2 CVBS
3 GND
4 +35V
5 GND
6 +8V
7 GND
8 +5V
9 SCL5
10 SDA5
11 GND
12 AGC
13 GND
14 +5V(ANT)
15 GND
CVBS
+8V
+5V
FB203 0GB01A
Q210 2SC2735
R286 10
R287 2.7K
P202 MA250WJ
TO MAIN /6
1 FECLK
2 GND
3 FED0
4 FED1
5 FED2
6 FED3
7 GND
8 FED4
9 FED5
10 FED6
11 FED7
12 GND
13 FEERR_UNCOR
14 FEVAL_DEN
15 FESTR_PSYNC
16 FEOFF_X4M
17 GND
18 FEGPO_COMP
19 FEGP1_LOCK
20 I2CSEL
21 FESDA
22 FESCL
23 FERESETn
TP201
TP202
TP203
TP204
IC202
IXB682WJ
STV0360C
R272 0
R273 0
R283 0
R281 0
R274 0
R282 0
R293 0
R294 0
R255 47
R256 47
R284 10K
R285 10K
R245 10K
R270 510K
X202 SCA039WJ
C250 0.01u Z
C267 0.01u Z
C247 10u 16V ASX
C248 0.01u Z
C266 0.01u Z
C271 0.01u Z
C272 1000P
C260 15P (CH)
C235 15P (CH)
C251 0.01u Z
C252 10u 16V ASX
C253 0.01u Z
C242 10u 16V ASX
C236 0.01u Z
C237 2.2u 50V ASX
C254 0.01u Z
C261 10u 16V ASX
C222 0.01u
C268 0.1u 25V
C269 0.1u 25V
C257 0.01u
C258 0.01u
C259 2P (CH)
L208 2.2uH CNN
L209 2.2uH CNN
L210 2.2uH CNN
R247 0
R248 15K
R289 10K
R290 180
R266 0
R267 0
R268 0
R269 0
FESTR_PSYNC
TSDA
TSCL
FERESET
FECLK
FED[0]
FED[1]
FED[2]
FED[3]
FED[4]
FED[5]
FED[6]
FED[7]
FEERROR
FEVAL_DEN
FEGPO_COMP
FEGP1_LOCK
T3V3D
T1V8D
T1V8X

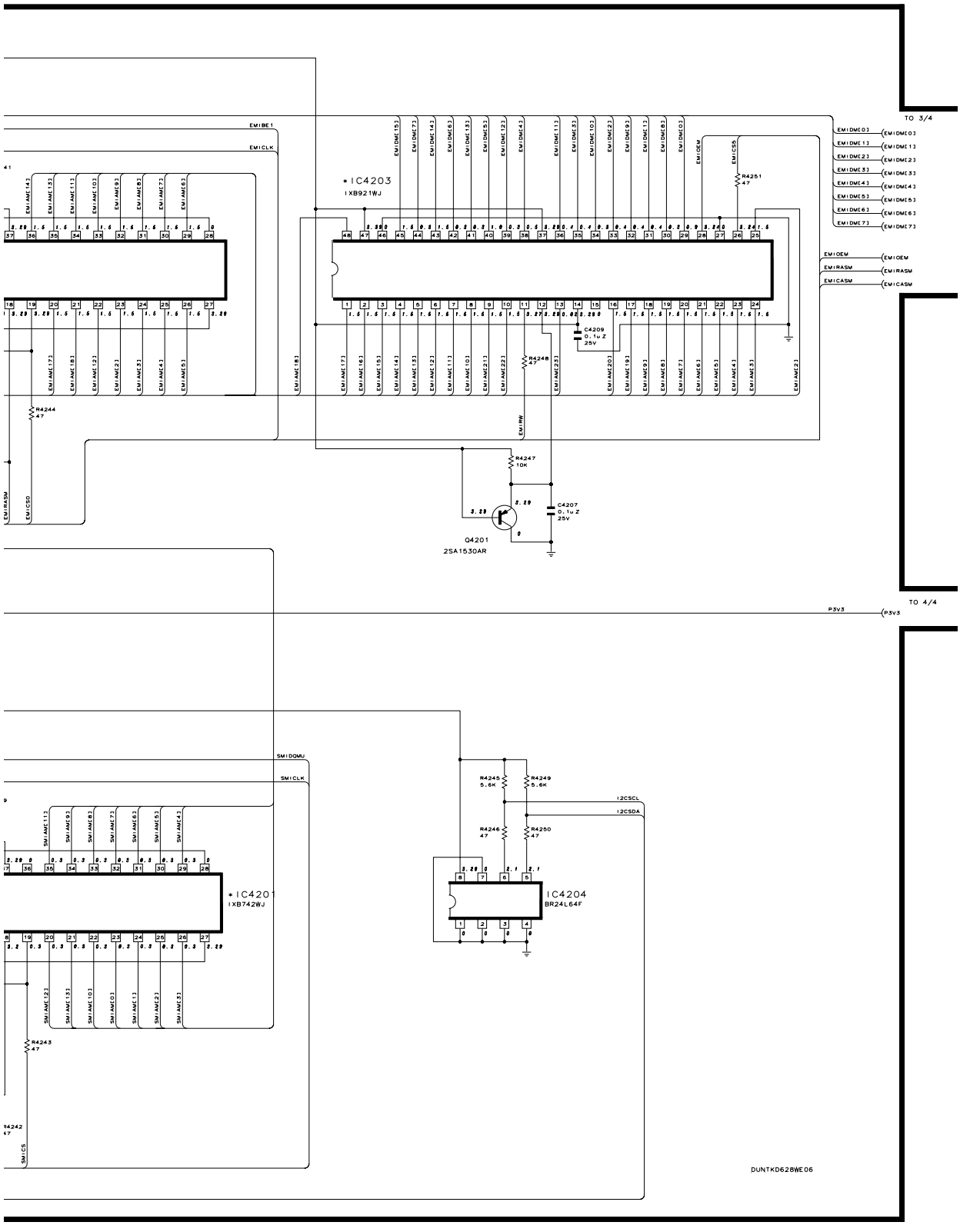
15. DIGITAL Unit-1/4




TO 3/4
TO 4/4
TO 2/4
IC4005
SN1GU04C
IC4003
BU4228G
X4002
UAA075WJ
27MHz
VCXO
P4001
N0463TA
RS
P4003
RS1
B+3.3VDC
TXD1
RXD1
GND
TS2DE0
TS2DE1
TS2DE2
TS2DE3
TS2DE4
TS2DE5
TS2DE6
TS2DE7
TS2CLK
TS2STRT
TS2VAL
FECLK
FESTROUT
FEVALID
FEDE0
FEDE1
FEDE2
FEDE3
FEDE4
FEDE5
FEDE6
FEDE7
FEERROR
IR
P1V8
P3V3
R
G
B
CVBS
I2CSCL
I2CSDA
TVSCL
TVSDA
SPDIF
SMICAS
SMICLK
SMICS
SMIDQML
SMIDQMU
SMIRAS
SMIWE
TRIGOUT
TRIGIN
TMS
TCK
TDI
TDO
NOTJRST
NOTTRST
TXD
RXD
27MHZPWM

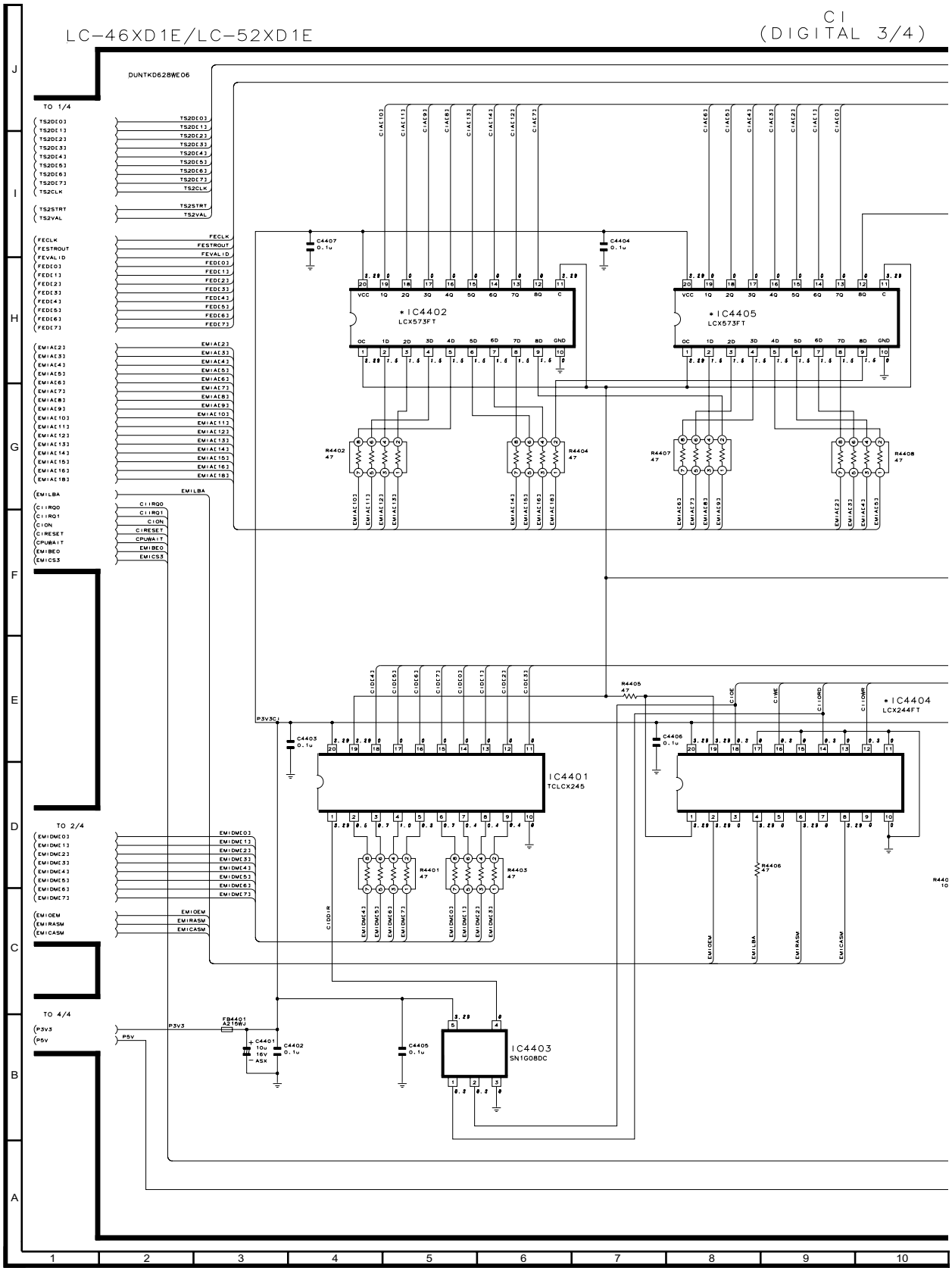
16. DIGITAL Unit-2/4

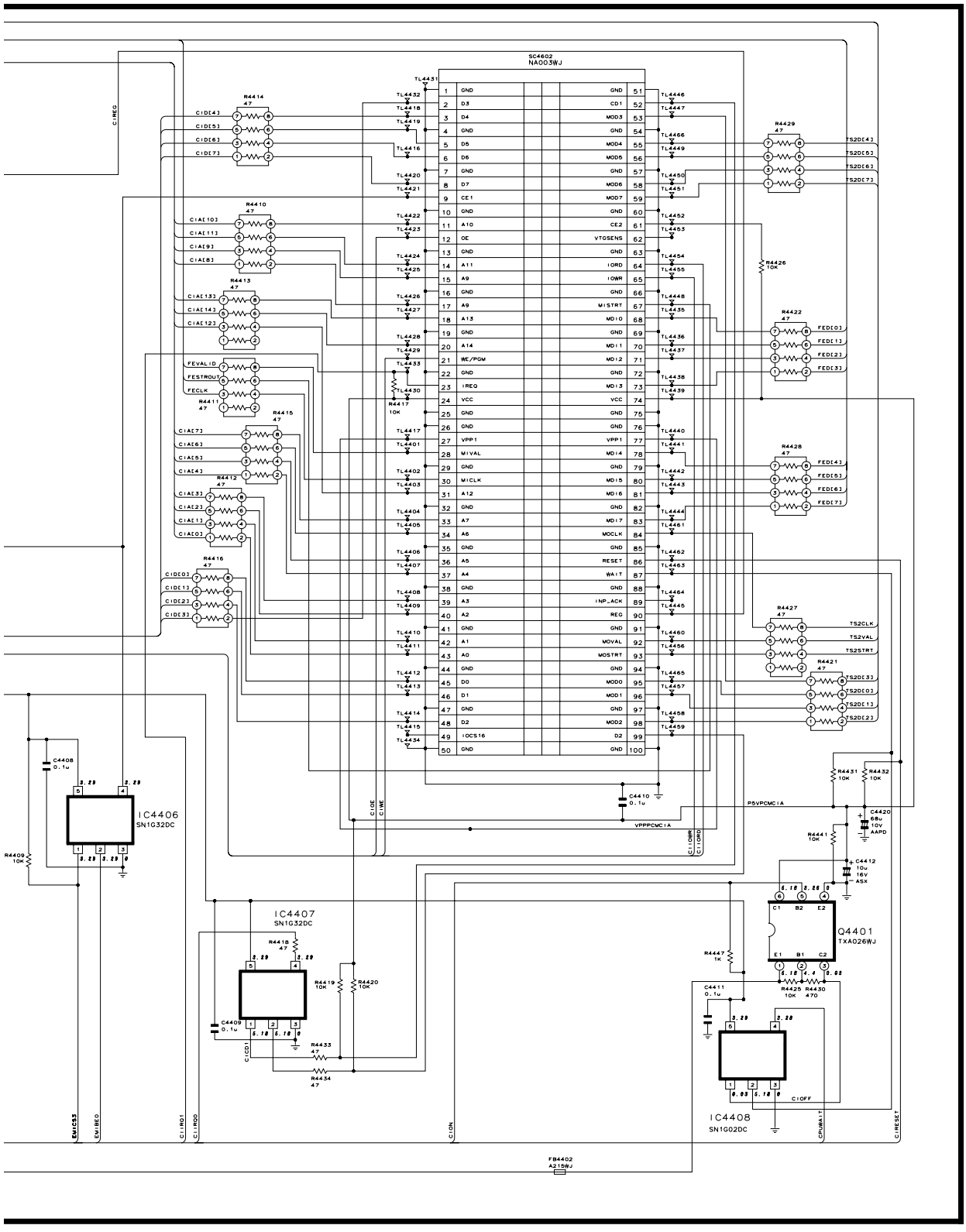




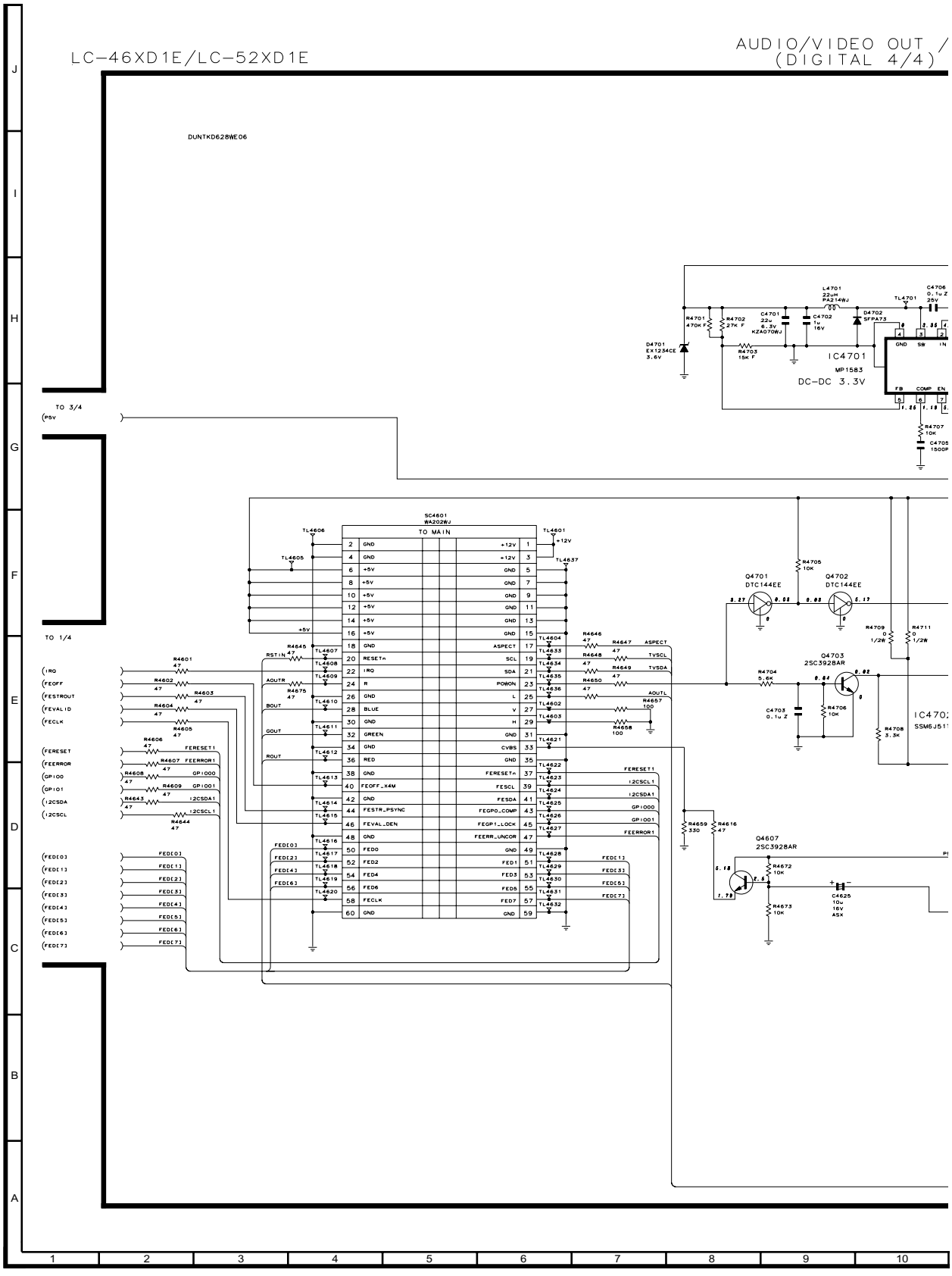
11	12	13	14	15	16	17	18	19	20

17. DIGITAL Unit-3/4

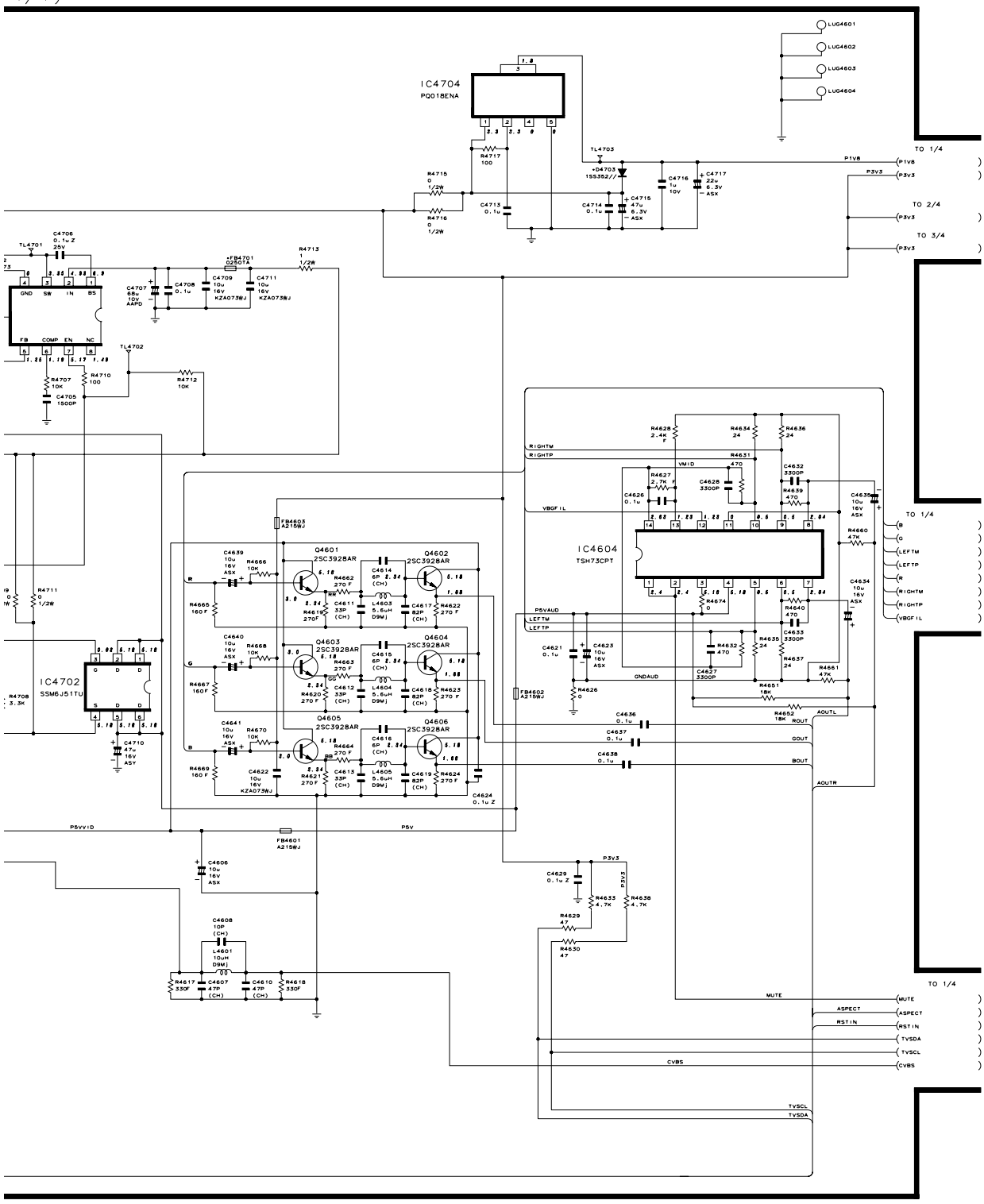



SC4602
NA003WJ
IC4406
SN1G32DC
IC4407
SN1G32DC
IC4408
SN1G02DC
Q4401
TXA026WJ
FB4402
A215WJ

18. DIGITAL Unit-4/4



OUT / REG
4/4)

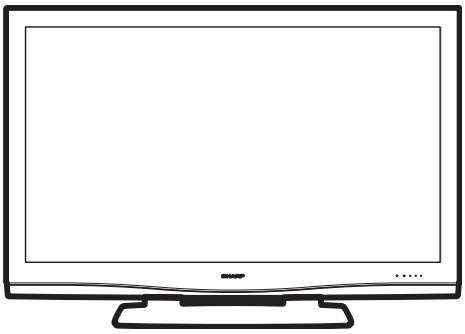


11	12	13	14	15	16	17	18	19	20

MEMO

SHARP PARTS GUIDE

No. S76V5LC46XD1E



LCD COLOUR TELEVISION

MODELS LC-46XD1E/RU
LC-52XD1E/RU

CONTENTS

[1] PRINTED WIRING BOARD ASSEMBLYS

[2] LCD Panel AND TUNER (NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.)

[3] DUNTKD915FM01 (MAIN Unit)

[4] DUNTKD604FM11 (AV UNIT)

[5] RDENCA204WJQZ (POWER Unit)

[6] DUNTKD833FM02 (D-TUNER Unit)

[7] DIGITAL Unit (DUNTKD833FM02)

[8] DUNTKD910FM01 (KEY Unit)

[9] DUNTKD909FM01 (R/C Unit)

[10] CABINET PARTS

[11] SUPPLIED ACCESSORIES

[12] PACKING PARTS (NOT REPLACEMENT ITEM)

[13] SERVICE JIGS (USER FOR SERVICING)

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

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The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLYS					
	DUNTKD915FM01		N	R	Main PWB Unit
	DUNTKD604FM11		N	R	AV PWB Unit
	RDENCA204WJQZ		N	R	Power PWB Unit
	DUNTKD833FM02			R	D-Tuner PWB Unit
	DUNTKD628FM06		N	R	Digital PWB Unit
	DUNTKD910FM01		N	R	Key PWB Unit
	DUNTKD909FM01			R	R/C PWB Unit
[2] LCD Panel AND TUNER (NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.)					
	R1LK460D3LZ1AZ		N	R	DISPLAY
	R1LK520D3LZ1A		N	R	DISPLAY
[3] DUNTKD915FM01 (MAIN Unit)					
C1701	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1702	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1703	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1704	VCAAPD1AJ686MY	AE		R	68 10V Electrolytic
C1705	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1706	RC-KZA070WJZZY	AD		R	Capacitor
C1707	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1708	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1709	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1710	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1711	RC-KZA073WJZZY	AD		R	Capacitor
C1712	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1713	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1715	VCEASX1VN226MY	AC		R	22 35V Electrolytic
C1716	VCEASX1CN226MY	AC		R	22 16V Electrolytic
C1717	VCKYCY1HB682KY	AA		R	6800p 50V Ceramic
C1718	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1719	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1720	VCEASX1CN226MY	AC		R	22 16V Electrolytic
C1721	VCAAPD1AJ686MY	AE		R	68 10V Electrolytic
C1722	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1723	RC-KZA073WJZZY	AD		R	Capacitor
C1724	RC-KZA073WJZZY	AD		R	Capacitor
C1725	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1726	RC-KZA070WJZZY	AD		R	Capacitor
C1727	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1728	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1730	VCKYCY1HB332KY	AA		R	3300p 50V Ceramic
C1731	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1732	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1733	VCEASX1CN226MY	AC		R	22 16V Electrolytic
C1734	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1735	VCAAPD1AJ686MY	AE		R	68 10V Electrolytic
C1736	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1737	RC-KZA073WJZZY	AD		R	Capacitor
C1738	RC-KZA073WJZZY	AD		R	Capacitor
C1739	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1740	RC-KZA070WJZZY	AD		R	Capacitor
C1741	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1742	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1743	VCCCCY1HH220JY	AA		R	22p 50V Ceramic
C1744	VCAAPD1AJ686MY	AE		R	68 10V Electrolytic
C1745	VCCCCY1HH560JY	AB		R	56p 50V Ceramic
C1746	VCEASX0JN476MY	AC		R	47 6.3V Electrolytic
C1747	VCEASX0JN476MY	AC		R	47 6.3V Electrolytic
C1748	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1749	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1751	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C1752	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1753	VCAAPD1AJ686MY	AE		R	68 10V Electrolytic
C1754	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1755	RC-KZA073WJZZY	AD		R	Capacitor
C1756	RC-KZA073WJZZY	AD		R	Capacitor
C1757	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1758	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1759	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1760	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1761	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1762	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1763	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1764	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1765	VCEASX1CN226MY	AC		R	22 16V Electrolytic
C1766	VCEASX1CN226MY	AC		R	22 16V Electrolytic
C1767	VCCCCY1HH560JY	AB		R	56p 50V Ceramic
C1768	VCCCCY1HH560JY	AB		R	56p 50V Ceramic
C1769	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1770	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1771	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1772	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C1773	VCCCCY1HH102JY	AB		R	1000p 50V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
C1783	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1784	RC-KZA073WJZZY	AD		R	Capacitor
C1903	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1904	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1910	RC-KZA073WJZZY	AD		R	Capacitor
C1912	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1913	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1916	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1917	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1918	RC-KZA073WJZZY	AD		R	Capacitor
C1919	RC-KZA073WJZZY	AD		R	Capacitor
C1921	RC-KZA073WJZZY	AD		R	Capacitor
C1923	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1924	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1927	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1928	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1929	VCCCCY1HH120JY	AA		R	12p 50V Ceramic
C1930	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1931	RC-KZA073WJZZY	AD		R	Capacitor
C1934	VCCCCY1HH120JY	AA		R	12p 50V Ceramic
C1935	RC-KZA073WJZZY	AD		R	Capacitor
C1936	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1941	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1943	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1946	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1947	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1948	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1953	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1955	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1956	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1959	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1960	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1965	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1967	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1968	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1969	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1971	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1973	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1974	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1975	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C2301	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2302	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2303	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2304	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2305	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2306	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C2307	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2308	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C2309	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C2310	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C2311	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2312	VCCCCY1HH330JY	AA		R	33p 50V Ceramic
C2313	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2314	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2315	VCCCCY1HH330JY	AA		R	33p 50V Ceramic
C2316	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2317	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2318	VCCCCY1HH100DY	AA		R	10p 50V Ceramic
C2320	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2321	RC-KZA073WJZZY	AD		R	Capacitor
C2322	VCCCCY1HH471JY	AA		R	470p 50V Ceramic
C2323	VCCCCY1HH471JY	AA		R	470p 50V Ceramic
C2328	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2329	RC-KZA510WJPZY	AB		R	Capacitor
C2330	VCCCCY1HH471JY	AA		R	470p 50V Ceramic
C2701	VCCCCY1HH470JY	AA		R	47p 50V Ceramic
C2702	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C2703	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C2704	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C2705	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C2706	VCEASX1HN105MY	AB		R	1 50V Electrolytic
C2707	VCEASX1HN105MY	AB		R	1 50V Electrolytic
C2708	VCEASX1HN105MY	AB		R	1 50V Electrolytic
C2709	VCEASX1HN105MY	AB		R	1 50V Electrolytic
C2710	VCCCCY1HH181JY	AA		R	180p 50V Ceramic
C2711	VCCCCY1HH471JY	AA		R	470p 50V Ceramic
C2712	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2713	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C2714	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C2715	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2718	VCKYCY1CF105ZY	AA		R	1 16V Ceramic
C2719	VCKYCY1CF105ZY	AA		R	1 16V Ceramic
C2722	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2723	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2724	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
C2725	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C2726	VCKYTV1EB104KY	AB		R	0.1 25V Ceramic
C2733	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2734	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2739	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C2740	VCKYTV1HB103KY	AA		R	0.01 50V Ceramic
C2741	RC-KZA073WJZZY	AD		R	Capacitor
C3001	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3002	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C3003	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3004	RC-KZA073WJZZY	AD		R	Capacitor
C3005	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3006	RC-KZA073WJZZY	AD		R	Capacitor
C3008	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C3009	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3010	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3011	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3012	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3013	RC-KZA073WJZZY	AD		R	Capacitor
C3014	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C3015	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3016	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3017	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3018	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3019	RC-KZA073WJZZY	AD		R	Capacitor
C3020	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3021	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3022	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3023	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3024	RC-KZA073WJZZY	AD		R	Capacitor
C3025	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3026	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3027	RC-KZA073WJZZY	AD		R	Capacitor
C3028	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3029	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3030	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3031	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3032	RC-KZA073WJZZY	AD		R	Capacitor
C3033	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3034	VCCCCY1HH150JY	AA		R	15p 50V Ceramic
C3035	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3036	RC-KZA073WJZZY	AD		R	Capacitor
C3037	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3038	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3039	VCCCCY1HH180JY	AA		R	18p 50V Ceramic
C3040	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3041	RC-KZA073WJZZY	AD		R	Capacitor
C3042	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3043	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C3044	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C3045	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C3046	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3047	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3048	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3049	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3050	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3301	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3302	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3303	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3304	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3305	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3306	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3307	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3308	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3309	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3310	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3311	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3312	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3313	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3314	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3315	VCCCCY1HH220JY	AA		R	22p 50V Ceramic
C3316	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3317	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3318	VCCCCY1HH220JY	AA		R	22p 50V Ceramic
C3319	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3320	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3321	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3322	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3323	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3324	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3325	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3326	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3327	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3328	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3329	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
C3330	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3331	RC-KZA073WJZZY	AD		R	Capacitor
C3332	RC-KZA073WJZZY	AD		R	Capacitor
C3333	RC-KZA073WJZZY	AD		R	Capacitor
C3334	RC-KZA073WJZZY	AD		R	Capacitor
C3335	VCEASY1CN476MY	AC		R	47 16V Electrolytic
C3336	VCEASY1CN476MY	AC		R	47 16V Electrolytic
C3337	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3338	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3339	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3340	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3341	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3342	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3343	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3501	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3502	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3503	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3504	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3505	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3506	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3507	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3508	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3509	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3510	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3511	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3512	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3513	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3514	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3515	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3516	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3517	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3518	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3519	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3520	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3521	RC-KZA073WJZZY	AD		R	Capacitor
C3522	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3525	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3526	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3527	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3528	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3529	RC-KZ0124TAZZY	AC		R	Capacitor
C3530	RC-KZ0124TAZZY	AC		R	Capacitor
C3531	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3532	VCEASX0JN227MY	AC		R	220 6.3V Electrolytic
C3533	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3534	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3535	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3536	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3537	VCCCCZ1HH101JY	AB		R	100p 50V Ceramic
C3538	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3539	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3540	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3541	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3542	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3543	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3544	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3545	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3546	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3547	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3548	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3549	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3550	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3551	RC-KZ0124TAZZY	AC		R	Capacitor
C3552	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3553	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3554	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3555	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3556	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3557	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3558	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3559	VCKYCZ1CF104ZY	AA		R	0.1 16V Ceramic
C3560	RC-KZA067WJZZY	AB		R	Capacitor
C3563	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C3564	VCKYCZ1HB102KY	AB		R	1000p 50V Ceramic
C3567	RC-KZ0124TAZZY	AC		R	Capacitor
C3568	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C3569	RC-KZ0124TAZZY	AC		R	Capacitor
C3701	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3702	VCEASY1CN107MY	AC		R	100 16V Electrolytic
C3703	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C3704	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C3705	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C3706	VCEASY1CN107MY	AC		R	100 16V Electrolytic
C3707	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3708	VCEASX1HN335MY	AB		R	3.3 50V Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
C3709	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3710	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3711	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C3712	VCCCCY1HH471JY	AA		R	470p 50V Ceramic
C3713	VCEASY1CN107MY	AC		R	100 16V Electrolytic
C3714	VCCCCY1HH560JY	AB		R	56p 50V Ceramic
C3715	VCCCCY1HH560JY	AB		R	56p 50V Ceramic
C3716	VCCCCY1HH560JY	AB		R	56p 50V Ceramic
C3717	VCCCCY1HH5R0CY	AA		R	50p 50V Ceramic
C3718	VCCCCY1HH6R0DY	AA		R	60p 50V Ceramic
C3719	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3720	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3721	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3722	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3723	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3724	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3725	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3726	VCCCCY1HH331JY	AA		R	330p 50V Ceramic
C3727	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3728	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3729	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3730	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3731	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3732	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3733	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3734	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3735	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3736	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3737	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C3738	RC-KZA073WJZZY	AD		R	Capacitor
C3739	RC-KZA073WJZZY	AD		R	Capacitor
C3740	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C3741	RC-KZA073WJZZY	AD		R	Capacitor
C3742	RC-KZA073WJZZY	AD		R	Capacitor
C3743	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C3744	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
D1702	RH-EX0487CEZZY	AC		R	HZM2.0NBTL-E
D1703	VHD1SS352//-1Y			R	1SS352(TPH3,F)
D1704	VHDTCCMS01+-1Y			R	CMSO1(TE12L,Q)
D1705	VHD1SS352//-1Y			R	1SS352(TPH3,F)
D1706	VHD1SS352//-1Y			R	1SS352(TPH3,F)
D1707	RH-EX0487CEZZY	AC		R	HZM2.0NBTL-E
D1708	VHDTCCMS01+-1Y			R	CMSO1(TE12L,Q)
D1709	VHDTCCMS01+-1Y			R	CMSO1(TE12L,Q)
D1901	VHDDAN202K/-1Y	AB		R	DAN202KT146
D1902	VHDDAN202K/-1Y	AB		R	DAN202KT146
D1903	VHD1SS352//-1Y			R	1SS352(TPH3,F)
D1904	VHD1SS352//-1Y			R	1SS352(TPH3,F)
D1905	VHD1SS352//-1Y			R	1SS352(TPH3,F)
D1906	VHD1SS352//-1Y			R	1SS352(TPH3,F)
D1913	VHDRB520S30-1Y			R	RB520S-30TE61
D2301	RH-EX1271CEZZY	AB		R	HZU12B2TRF
D2302	RH-EX1271CEZZY	AB		R	HZU12B2TRF
D2303	RH-EX1271CEZZY	AB		R	HZU12B2TRF
D2304	RH-EX1271CEZZY	AB		R	HZU12B2TRF
D2305	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2306	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2307	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2308	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2309	VHDDAN202K/-1Y	AB		R	DAN202KT146
D2310	VHD1SS226//-1Y	AC		R	1SS226(T5L,F,T)
D2311	VHD1SS226//-1Y	AC		R	1SS226(T5L,F,T)
D2312	VHD1SS226//-1Y	AC		R	1SS226(T5L,F,T)
D2313	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2314	RH-EX1271CEZZY	AB		R	HZU12B2TRF
D2315	RH-EX1271CEZZY	AB		R	HZU12B2TRF
D2317	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2318	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2319	RH-EX1247CEZZY	AB		R	HZU5.6B2TRF
D2707	VHD1SS390++-1Y	AB		R	1SS390TE61
D2708	VHD1SS390++-1Y	AB		R	1SS390TE61
FB1701	RBLN-0250TAZZY	AC		R	Balun
FB1702	RBLN-0250TAZZY	AC		R	Balun
FB1703	RBLN-0061TAZZY	AD		R	Balun
FB1704	RBLN-0061TAZZY	AD		R	Balun
FB1705	RBLN-0250TAZZY	AC		R	Balun
FB1706	RBLN-0250TAZZY	AC		R	Balun
FB1707	RBLN-0250TAZZY	AC		R	Balun
FB1901	RBLN-0060TAZZY	AB		R	Balun
FB1902	RBLN-0060TAZZY	AB		R	Balun
FB1903	RBLN-0060TAZZY	AB		R	Balun
FB1904	RBLN-0060TAZZY	AB		R	Balun
FB1905	RBLN-0060TAZZY	AB		R	Balun
FB1906	RBLN-0060TAZZY	AB		R	Balun
FB1907	RBLN-0210TAZZY	AB		R	Balun

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
FB1908	RBLN-0060TAZZY	AB		R	Balun
FB1909	RBLN-0210TAZZY	AB		R	Balun
FB2301	RBLN-0061TAZZY	AD		R	Balun
FB2302	RBLN-0061TAZZY	AD		R	Balun
FB2303	RBLN-0210TAZZY	AB		R	Balun
FB2305	RBLN-0061TAZZY	AD		R	Balun
FB2306	RBLN-0061TAZZY	AD		R	Balun
FB2307	RBLN-0061TAZZY	AD		R	Balun
FB2308	RBLN-0061TAZZY	AD		R	Balun
FB2309	RBLN-0061TAZZY	AD		R	Balun
FB2310	RBLN-0210TAZZY	AB		R	Balun
FB2701	RBLN-0254TAZZY	AB		R	Balun
FB2702	RBLN-0254TAZZY	AB		R	Balun
FB2703	RBLN-0254TAZZY	AB		R	Balun
FB2705	RBLN-0061TAZZY	AD		R	Balun
FB2706	RBLN-0061TAZZY	AD		R	Balun
FB2707	RBLN-0061TAZZY	AD		R	Balun
FB2708	RBLN-0061TAZZY	AD		R	Balun
FB2709	RBLN-0061TAZZY	AD		R	Balun
FB2710	RBLN-0061TAZZY	AD		R	Balun
FB2711	RBLN-0061TAZZY	AD		R	Balun
FB2713	RBLN-0254TAZZY	AB		R	Balun
FB2714	RBLN-0254TAZZY	AB		R	Balun
FB2715	RBLN-0210TAZZY	AB		R	Balun
FB2716	RBLN-0210TAZZY	AB		R	Balun
FB3001	RBLN-0254TAZZY	AB		R	Balun
FB3002	RBLN-0254TAZZY	AB		R	Balun
FB3004	RBLN-0254TAZZY	AB		R	Balun
FB3005	RBLN-0254TAZZY	AB		R	Balun
FB3006	RBLN-0254TAZZY	AB		R	Balun
FB3007	RBLN-0254TAZZY	AB		R	Balun
FB3008	RBLN-0254TAZZY	AB		R	Balun
FB3009	RBLN-0254TAZZY	AB		R	Balun
FB3010	RBLN-0254TAZZY	AB		R	Balun
FB3014	RBLN-0254TAZZY	AB		R	Balun
FB3301	RBLN-0254TAZZY	AB		R	Balun
FB3302	RBLN-0254TAZZY	AB		R	Balun
FB3303	RBLN-0254TAZZY	AB		R	Balun
FB3304	RBLN-0254TAZZY	AB		R	Balun
FB3305	RBLN-0254TAZZY	AB		R	Balun
FB3306	RBLN-0254TAZZY	AB		R	Balun
FB3501	RBLN-0250TAZZY	AC		R	Balun
FB3502	RBLN-0250TAZZY	AC		R	Balun
FB3503	RBLN-0250TAZZY	AC		R	Balun
FB3701	RBLN-0254TAZZY	AB		R	Balun
FB3702	RBLN-0254TAZZY	AB		R	Balun
FB3703	RBLN-0254TAZZY	AB		R	Balun
FB3705	RBLN-0254TAZZY	AB		R	Balun
FL2301	RFiLN0003TAZZY	AD		R	Filter
FL2302	RFiLN0003TAZZY	AD		R	Filter
FL2303	RFiLN0003TAZZY	AD		R	Filter
FL2304	RCiLFA071WJZZY	AD		R	Coil
FL2305	RCiLFA071WJZZY	AD		R	Coil
FL2306	RCiLFA071WJZZY	AD		R	COiL
FL2307	RCiLFA071WJZZY	AD		R	COiL
FL2308	RCiLFA071WJZZY	AD		R	COiL
FL2309	RCiLFA071WJZZY	AD		R	COiL
FL2310	RCiLFA071WJZZY	AD		R	Coil
FL2311	RCiLFA071WJZZY	AD		R	Coil
FL2312	RCiLFA071WJZZY	AD		R	Coil
FL2313	RCiLFA071WJZZY	AD		R	Coil
FL2314	RCiLFA071WJZZY	AD		R	Coil
FL2315	RCiLFA071WJZZY	AD		R	Coil
IC1701	VHiBU4239G+-1Y	AE		R	BU4239G-TR
IC1702	VHiPQ20WZ11-1Y	AF		R	PQ20WZ1UJ00H
IC1703	VHiPQ20WZ11-1Y	AF		R	PQ20WZ1UJ00H
IC1705	VHiPQ1R50//-1Y	AF		R	PQ1R50J0000H
IC1706	VHiMP1583++-1Y	AH		R	MP1583DN-LF-Z
IC1707	VHiPQ20WZ11-1Y	AF		R	PQ20WZ1UJ00H
IC1708	VHiMP1410ES-1Y	AP		R	MP1410ES-LF-Z
IC1709	VSSSM6J51TU-1Y	AF		R	SSM6J51TU(TE85L,F)
IC1710	RH-iXB946WJZZQ		N	R	EPM240T100C5N
IC1712	VHiMP1410ES-1Y	AP		R	MP1410ES-LF-Z
IC1901	VHi24LC2BiN-1Y	AF		R	24LC02BT-i/SN
IC1902	VHi24LC2BiN-1Y	AF		R	24LC02BT-i/SN
IC1905	VHiSii9023+-1Q		N	R	Sil9023CTU
IC2301	VHiiCL3225E-1Y	AN		R	iCL3225ECAZ-T
IC2303	VHiBR24C21F-1Y	AG		R	BR24C21F-E2
IC2304	VHiTL712CPW-1Y	AK		R	TL712CPWR
IC2305	VHiTL712CPW-1Y	AK		R	TL712CPWR
IC2306	VHiTC7W53U/-1Y	AF		R	TC7W53FU(TE12L,F)
IC2307	VHiTC7W00U/-1Y	AE		R	TC7W00FU(TE12L,F)
IC2701	VHiLCX125FT-1Y	AD		R	TC74LCX125FT(EL,K)
IC2704	VHiTC4052BT-1Y	AF		R	TC4052BFT(EL,N,M)
IC3001	RH-iXA992WJZZY	AM		R	M24256-BWMN6TP

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
IC3002	RH-iXB755WJZZQ			R	VGC5969B-AD-A3
IC3003	VHiT7WB125A-1Y	AE		R	TC7WBD125AFK(T5L,F)
IC3004	VHiBU4228G+-1Y	AD		R	BU4228G-TR
IC3005	VHiBU4214G+-1Y			R	BU4214G-TR
IC3301	RH-iXB064WJN1Q	BR		R	FRC9429A-XX-B2
IC3501	RH-iXB765WJQZQ	AW		R	K4H561638H-UCB3
IC3502	RH-iXB765WJQZQ	AW		R	K4H561638H-UCB3
IC3503	RH-iXB754WJZZQ			R	M29DW128F70NF6E
IC3504	RH-iXB753WJZZY			R	SN74LVCH16373ADGGR
IC3506	VHiBD3533F+-1Y	AG		R	BD3533F-E2
IC3701	RH-iXB752WJZZQ			R	MSP4410K-QA-D6
IC3702	VHiAK4363VF-1Y	AQ		R	AK4363VF
J2701	QJAKEA073WJZZ	AD		R	Jack
J2702	QJAKEA073WJZZ	AD		R	Jack
L1701	RCiLPA212WJZZY			R	Coil
L1702	RCiLPA213WJZZY	AG		R	Coil
L1703	RCiLPA213WJZZY	AG		R	Coil
L1901	RCiLFA134WJZZY	AF		R	Coil
L1902	RCiLFA134WJZZY	AF		R	Coil
L1903	RCiLFA134WJZZY	AF		R	Coil
L1904	RCiLFA134WJZZY	AF		R	Coil
L1905	RCiLFA134WJZZY	AF		R	Coil
L1906	RCiLFA134WJZZY	AF		R	Coil
L1907	RCiLFA134WJZZY	AF		R	Coil
L1908	RCiLFA134WJZZY	AF		R	Coil
L2703	VPCUN1R5MR12NY	AC		R	Peaking 1.5uH
LUG1701	QLUGHA006WJZZY	AC		R	Lug
LUG1702	QLUGHA006WJZZY	AC		R	Lug
LUG1703	QLUGHA006WJZZY	AC		R	Lug
LUG1704	QLUGHA006WJZZY	AC		R	Lug
LUG1705	QLUGZA002WJZZY	AC		R	Lug
LUG1706	QLUGZA002WJZZY	AC		R	Lug
LUG1707	QLUGZA002WJZZY	AC		R	Lug
LUG1708	QLUGZA002WJZZY	AC		R	Lug
LUG1709	QLUGZA002WJZZY	AC		R	Lug
LUG1710	QLUGZA002WJZZY	AC		R	Lug
P1701	QPLGNA343WJZZY	AD		R	Plug
P1702	QPLGN1075TAZZY	AD		R	Plug
P2302	QPLGNA338WJZZY	AD		R	Plug
P2303	QPLGNA347WJZZY	AD		R	Plug
P2304	QSOCNA472WJZZY	AD		R	Socket
P2702	QCNCMA202WJZZY	AK		R	Connector
P3001	QPLGNA339WJZZY	AD		R	Plug
Q1701	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q1702	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1703	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q1704	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1706	VSCPH6318++-1Y			R	CPH6318-TL-E
Q1901	VS2SK536///-1Y	AE		R	2SK536-TB-E
Q1902	VS2SK536///-1Y	AE		R	2SK536-TB-E
Q1903	VS2SK536///-1Y	AE		R	2SK536-TB-E
Q1904	VS2SK536///-1Y	AE		R	2SK536-TB-E
Q1905	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q1906	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q1907	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q1908	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q1909	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q1910	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q2302	VSDTC114EE/-1Y	AB		R	DTC114EETL
Q2303	VSDTC114EE/-1Y	AB		R	DTC114EETL
Q2304	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q2305	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2306	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q2307	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2312	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q2313	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q2314	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q2315	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q2701	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2702	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2703	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2704	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2705	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2706	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2707	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q2708	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q2709	VSSSM3K15FS-1Y			R	SSM3K15FS(TE85L,F)
Q2710	VSSSM3K15FS-1Y			R	SSM3K15FS(TE85L,F)
Q2711	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q2715	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q2717	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q3001	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q3002	VSSSM3K15FS-1Y			R	SSM3K15FS(TE85L,F)
Q3003	VSSSM3K15FS-1Y			R	SSM3K15FS(TE85L,F)
Q3004	VSSSM3K15FS-1Y			R	SSM3K15FS(TE85L,F)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
Q3005	VSSSM3K15FS-1Y			R	SSM3K15FS(TE85L,F)
Q3501	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q3702	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q3703	VSDTC144EE/-1Y	AA		R	DTC144EETL
R1700	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1701	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide
R1702	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1703	VRS-TW2ED000JY	AB		R	0 1/4W Metal Oxide
R1704	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1705	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1706	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R1707	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1709	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1711	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1712	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1714	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1715	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R1716	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1717	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R1718	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R1719	VRS-CY1JF622FY	AA		R	6.2k 1/16W Metal Oxide
R1720	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1721	VRS-CY1JF203FY	AA		R	20k 1/16W Metal Oxide
R1722	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1723	VRS-CY1JF103FY	AA		R	10k 1/16W Metal Oxide
R1725	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1726	VRS-CY1JF511FY	AA		R	510 1/16W Metal Oxide
R1727	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1728	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R1729	VRS-CY1JF202FY	AA		R	2.0k 1/16W Metal Oxide
R1730	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R1731	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1732	VRS-CY1JF202FY	AA		R	2.0k 1/16W Metal Oxide
R1733	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1734	VRS-CY1JF222FY	AA		R	2.2k 1/16W Metal Oxide
R1735	VRS-CY1JF202FY	AA		R	2.0k 1/16W Metal Oxide
R1736	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1737	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R1738	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1739	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1740	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1741	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1742	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1743	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1744	VRS-CY1JF203FY	AA		R	20k 1/16W Metal Oxide
R1745	VRS-CY1JF132JY	AG		R	1.3k 1/16W Metal Oxide
R1746	VRS-CY1JF202JY	AA		R	2.0k 1/16W Metal Oxide
R1747	VRS-CY1JF511FY	AA		R	510 1/16W Metal Oxide
R1748	VRS-CY1JF202FY	AA		R	2.0k 1/16W Metal Oxide
R1749	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1750	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R1751	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1753	VRS-CY1JF103FY	AA		R	10k 1/16W Metal Oxide
R1754	VRS-CY1JF622FY	AA		R	6.2k 1/16W Metal Oxide
R1755	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide
R1756	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1757	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1758	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1759	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1760	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1761	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1762	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1763	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1764	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1767	VRS-CY1JF823FY	AA		R	82k 1/16W Metal Oxide
R1768	VRS-CY1JF103FY	AA		R	10k 1/16W Metal Oxide
R1769	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1770	VRS-CY1JF752JY	AA		R	7.5k 1/16W Metal Oxide
R1771	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1772	VRS-TW2HF1R0JY	AA		R	1 1/2W Metal Oxide
R1773	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1774	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1775	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1776	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1777	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1779	VRS-CY1JF123FY	AA		R	12k 1/16W Metal Oxide
R1780	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1781	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1782	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1783	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1784	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1785	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1786	VRS-CY1JF563JY	AA		R	56k 1/16W Metal Oxide
R1787	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1788	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
R1789	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1790	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1791	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1792	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1793	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1794	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1795	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1796	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1797	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1798	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1800	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1804	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1805	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1806	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R1831	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1832	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1833	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1834	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1835	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1836	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1837	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1838	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1839	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1840	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R1841	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1842	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1845	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1846	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1847	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1848	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1851	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1853	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1854	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide
R1855	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1857	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1860	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1862	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1901	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R1902	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R1903	VRS-CY1JF152JY	AA		R	1.5k 1/16W Metal Oxide
R1904	VRS-CY1JF152JY	AA		R	1.5k 1/16W Metal Oxide
R1906	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R1908	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1909	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R1910	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1911	VRS-CJ1JF474JY	AA		R	470k 1/16W Metal Oxide
R1912	VRS-CJ1JF474JY	AA		R	470k 1/16W Metal Oxide
R1913	VRS-CJ1JF473JY	AB		R	47k 1/16W Metal Oxide
R1914	VRS-CJ1JF100JY	AA		R	10 1/16W Metal Oxide
R1915	VRS-CJ1JF473JY	AB		R	47k 1/16W Metal Oxide
R1916	VRS-CJ1JF100JY	AA		R	10 1/16W Metal Oxide
R1917	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1918	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1919	VRS-CY1JF100JY	AA		R	10 1/16W Metal Oxide
R1920	VRS-CH1JF100JY	AA		R	10 1/16W Metal Oxide
R1921	VRS-CH1JF100JY	AA		R	10 1/16W Metal Oxide
R1922	VRS-CH1JF100JY	AA		R	10 1/16W Metal Oxide
R1923	VRS-CH1JF100JY	AA		R	10 1/16W Metal Oxide
R1924	VRS-CH1JF100JY	AA		R	10 1/16W Metal Oxide
R1925	VRS-CH1JF100JY	AA		R	10 1/16W Metal Oxide
R1926	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R1927	VRS-CH1JF100JY	AA		R	10 1/16W Metal Oxide
R1928	VRS-CY1JF223JY	AA		R	22k 1/16W Metal Oxide
R1929	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R1930	VRS-CY1JF910FY	AA		R	91 1/16W Metal Oxide
R1931	VRS-CY1JF910FY	AA		R	91 1/16W Metal Oxide
R1932	VRS-CY1JF105JY	AA		R	1M 1/16W Metal Oxide
R1933	VRS-CY1JF152JY	AA		R	1.5k 1/16W Metal Oxide
R1934	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R1935	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R1937	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1938	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1939	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1940	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1941	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1942	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R1943	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1944	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1945	VRS-CY1JF273JY	AA		R	27k 1/16W Metal Oxide
R2301	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2303	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2305	VRS-CH1JF103JY	AA		R	10k 1/16W Metal Oxide
R2306	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2307	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R2308	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
R2309	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R2310	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2311	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2315	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2317	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R2318	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R2319	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2320	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R2321	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R2322	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R2324	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R2325	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R2326	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2329	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2330	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R2331	VRS-CH1JF104JY	AA		R	100k 1/16W Metal Oxide
R2332	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R2333	VRS-CH1JF101JY	AA		R	100 1/16W Metal Oxide
R2334	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2335	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2336	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R2337	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2338	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2339	VRS-CY1JF102FY	AA		R	1k 1/16W Metal Oxide
R2340	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R2341	VRS-CY1JF393FY	AA		R	39k 1/16W Metal Oxide
R2342	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2343	VRS-CY1JF333JY	AA		R	33k 1/16W Metal Oxide
R2347	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R2349	VRS-CY1JF271JY	AA		R	270 1/16W Metal Oxide
R2350	VRS-CY1JF561JY	AA		R	560 1/16W Metal Oxide
R2351	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R2352	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2353	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R2354	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2355	VRS-CY1JF271JY	AA		R	270 1/16W Metal Oxide
R2356	VRS-CY1JF822JY	AA		R	8.2k 1/16W Metal Oxide
R2357	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R2358	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R2359	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R2360	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R2362	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2363	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2364	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R2365	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R2366	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R2367	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2368	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R2370	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2371	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R2372	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2373	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2374	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2375	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2376	VRS-CY1JF333JY	AA		R	33k 1/16W Metal Oxide
R2377	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2378	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2379	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2380	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2381	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2382	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2386	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2387	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2388	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2389	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2390	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2391	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2392	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2393	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2394	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2395	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2396	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2397	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2398	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2415	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2416	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2417	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2702	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R2703	VRS-CY1JF563JY	AA		R	56k 1/16W Metal Oxide
R2704	VRS-CY1JF470FY	AA		R	47 1/16W Metal Oxide
R2705	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R2706	VRS-CJ1JF224JY	AA		R	220k 1/16W Metal Oxide
R2707	VRS-CJ1JF224JY	AA		R	220k 1/16W Metal Oxide
R2708	VRS-CH1JF104JY	AA		R	100k 1/16W Metal Oxide
R2709	VRS-CH1JF104JY	AA		R	100k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
R2710	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R2711	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R2712	VRS-CJ1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R2713	VRS-CJ1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R2714	VRS-CY1JF123JY	AA		R	12k 1/16W Metal Oxide
R2715	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2716	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R2717	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R2718	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2719	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R2720	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R2721	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R2722	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2723	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2724	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2725	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2727	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2728	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2729	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2730	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2731	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2732	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2733	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2734	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2735	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2737	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R2738	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R2739	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R2740	VRS-CY1JF822JY	AA		R	8.2k 1/16W Metal Oxide
R2741	VRS-CY1JF393JY	AA		R	39k 1/16W Metal Oxide
R2752	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R2753	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R2754	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R2755	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2756	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2758	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2771	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R2776	VRS-CY1JF4R7JY	AA		R	4.7 1/16W Metal Oxide
R3001	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3002	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3003	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3004	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R3005	VRS-CJ1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R3006	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R3007	VRS-CY1JF622FY	AA		R	6.2k 1/16W Metal Oxide
R3008	VRS-CJ1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R3009	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3010	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R3011	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3012	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R3013	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3014	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3015	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3016	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3017	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3018	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3019	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3021	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3022	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3024	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3026	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R3028	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3029	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3030	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3031	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3032	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3033	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3034	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3039	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R3040	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3041	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3044	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3045	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3046	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3047	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3048	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3049	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3050	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3051	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3052	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3053	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3054	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3055	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3056	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3057	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
R3058	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3059	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3060	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3061	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3062	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3063	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3064	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3066	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3067	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3069	VRS-CZ1JF000JY	AA		R	0 1/16W Metal Oxide
R3070	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3301	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R3302	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3303	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3304	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3305	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3306	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3307	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3308	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3312	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R3313	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3314	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3315	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3316	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3317	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3318	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3319	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3320	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3321	VRS-CZ1JF101JY	AA		R	100 1/16W Metal Oxide
R3501	VRK-CD1JJ680JY	AC		R	68 1/16W Metal Composition
R3502	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R3503	VRS-CH1JF220JY	AA		R	22 1/16W Metal Oxide
R3504	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3505	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3506	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3507	VRS-CZ1JF102JY	AA		R	1k 1/16W Metal Oxide
R3508	VRS-CZ1JF102JY	AA		R	1k 1/16W Metal Oxide
R3509	VRK-CD1JJ220JY	AC		R	22 1/16W Metal Composition
R3510	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3511	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3512	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R3513	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3514	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3515	VRS-CZ1JF680JY	AB		R	68 1/16W Metal Oxide
R3517	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3518	VRK-CD1JJ680JY	AC		R	68 1/16W Metal Composition
R3519	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3520	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3521	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R3524	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3525	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3526	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3527	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3532	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3533	VRK-CD1JJ151JY	AC		R	150 1/16W Metal Composition
R3534	VRK-CD1JJ151JY	AC		R	150 1/16W Metal Composition
R3535	VRK-CD1JJ151JY	AC		R	150 1/16W Metal Composition
R3536	VRK-CD1JJ151JY	AC		R	150 1/16W Metal Composition
R3537	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3540	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3541	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3542	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3543	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3544	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3545	VRK-CD1JJ330JY	AC		R	33 1/16W Metal Composition
R3550	VRS-CZ1JF220JY	AA		R	22 1/16W Metal Oxide
R3551	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3552	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3553	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3554	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3557	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3559	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3560	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R3561	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3562	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3563	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3564	VRS-CZ1JF333JY	AA		R	33k 1/16W Metal Oxide
R3567	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3568	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3569	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3570	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3571	VRS-CZ1JF000JY	AA		R	0 1/16W Metal Oxide
R3575	VRS-CH1JF680JY	AA		R	68 1/16W Metal Oxide
R3580	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3581	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DUNTKD915FM01 (MAIN Unit)					
R3582	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3583	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3588	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3589	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3590	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3591	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R3592	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3593	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3594	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3595	VRS-CZ1JF330JY	AA		R	33 1/16W Metal Oxide
R3596	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3597	VRS-CY1JF333JY	AA		R	33k 1/16W Metal Oxide
R3701	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3702	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3703	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3704	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R3705	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R3706	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R3708	VRS-CY1JF105JY	AA		R	1M 1/16W Metal Oxide
R3712	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3713	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3714	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3715	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3716	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3717	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3718	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3719	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3720	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3721	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3722	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3723	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3724	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3725	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3726	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3727	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3728	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3729	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3730	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3731	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3735	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R3736	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R3737	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R3738	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3739	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3740	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3741	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3742	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3743	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R3744	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R3745	VRS-CY1JF512JY	AA		R	5.1k 1/16W Metal Oxide
R3746	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3747	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3748	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3749	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3750	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R3751	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3752	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
S3001	QSW-K0095CEZZ	AB		R	Switch
S3501	QSW-SA020WJZZY	AE		R	Switch
SC1701	QCNCWA251WJZZY	AH		R	Connector
SC1702	QCNCWA248WJZZY	AD		R	Connector
SC1901	QSOCZA072WJZZQ	AH		R	Socket
SC1902	QSOCZA072WJZZQ	AH		R	Socket
SC2301	QSOCDA036WJZZ	AF		R	Socket
SC2302	QCNCWA507WJQZY	AM		R	Connector
SC2303	QSOCNA229WJZZ	AH		R	Socket
SC2702	QCNCWA251WJZZY	AH		R	Connector
SC2703	QCNCWA251WJZZY	AH		R	Connector
SC2704	QCNCWA251WJZZY	AH		R	Connector
SC2705	QCNCWA010WJZZY	AE		R	Connector
SC2707	QCNCWA251WJZZY	AH		R	Connector
TH3001	VHHM1103J03-1Y	AC		R	Thermistor
X1901	RCRSCA108WJZZY	AF		R	Crystal
X3001	RCRSC0012CEZZY	AH		R	Crystal
X3301	RCRSC0012CEZZY	AH		R	Crystal
X3701	RCRSB0250GEZZ+	AG		R	Crystal

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM11 (AV UNIT)					
C301	VCKYCY1HB392KY	AA		R	3900p 50V Ceramic
C302	VCKYCY1HB392KY	AA		R	3900p 50V Ceramic
C303	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C304	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C305	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C306	VCEASX1HN225MY	AB		R	2.2 50V Electrolytic
C307	VCEASX1HN225MY	AB		R	2.2 50V Electrolytic
C308	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C309	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C310	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C311	VCEASX1CN226MY	AC		R	22 16V Electrolytic
C312	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C313	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C314	VCKYCY1HB153KY	AA		R	0.015 50V Ceramic
C315	VCKYCY1HB153KY	AA		R	0.015 50V Ceramic
C316	VCCCCY1HH330JY	AA		R	33p 50V Ceramic
C317	VCCCCY1HH330JY	AA		R	33p 50V Ceramic
C318	VCCCCY1HH470JY	AA		R	47p 50V Ceramic
C319	VCCCCY1HH470JY	AA		R	47p 50V Ceramic
C320	VCEASX1HN225MY	AB		R	2.2 50V Electrolytic
C321	VCEASX1HN225MY	AB		R	2.2 50V Electrolytic
C322	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C323	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C324	VCEASX1HN106MY	AC		R	10 50V Electrolytic
C325	VCEASX1HN106MY	AC		R	10 50V Electrolytic
C326	VCKYCY1HB153KY	AA		R	0.015 50V Ceramic
C327	VCKYCY1HB153KY	AA		R	0.015 50V Ceramic
C328	VCEASX1HN225MY	AB		R	2.2 50V Electrolytic
C329	VCEASX1HN225MY	AB		R	2.2 50V Electrolytic
C330	VCESYA1VM477M+	AF		R	470 35V Capacitor(AL)
C331	VCESYA1VM477M+	AF		R	470 35V Capacitor(AL)
C332	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C333	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C334	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C335	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C338	RC-EZA513WJZZ	AH		R	Capacitor
C339	RC-EZA513WJZZ	AH		R	Capacitor
C340	VCKYTV1EB224KY	AA		R	0.22 25V Ceramic
C341	VCKYTV1EB224KY	AA		R	0.22 25V Ceramic
C342	VCFYFA1HA684J+	AC		R	0.68 50V Capacitor
C343	VCFYFA1HA684J+	AC		R	0.68 50V Capacitor
C346	VCEASX1HN105MY	AB		R	1 50V Electrolytic
C347	VCEASX1HN105MY	AB		R	1 50V Electrolytic
C348	VCEASX1VN226MY	AC		R	22 35V Electrolytic
C349	VCEASX1VN226MY	AC		R	22 35V Electrolytic
C350	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C351	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C352	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C353	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C354	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C355	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C356	VCEASY1HN476MY	AD		R	47 50V Electrolytic
C357	VCEASY1HN476MY	AD		R	47 50V Electrolytic
C358	VCEASX1HN106MY	AC		R	10 50V Electrolytic
C359	VCEASX1HN106MY	AC		R	10 50V Electrolytic
C360	VCEASY1CN476MY	AC		R	47 16V Electrolytic
C361	RC-KZA073WJZZY	AD		R	Capacitor
C362	VCKYTV1EB224KY	AA		R	0.22 25V Ceramic
C363	VCKYTV1EB224KY	AA		R	0.22 25V Ceramic
C364	VCEASY1CN477MY	AD		R	470 16V Electrolytic
C365	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C366	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C1101	VCKYTV1EB104KY	AB		R	0.1 25V Ceramic
C1102	VCKYTV1EB104KY	AB		R	0.1 25V Ceramic
C1103	VCKYTV1EB104KY	AB		R	0.1 25V Ceramic
C1104	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1105	VCKYTV1EB104KY	AB		R	0.1 25V Ceramic
C1106	VCKYTV1EB104KY	AB		R	0.1 25V Ceramic
C1107	VCKYTV1EB104KY	AB		R	0.1 25V Ceramic
C1108	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1109	VCKYTQ1HB104KY			R	0.1 50V Ceramic
C1110	VCKYTQ1HB104KY			R	0.1 50V Ceramic
C1114	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C1116	VCKYCY1HB221KY	AA		R	220p 50V Ceramic
C1117	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1118	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1119	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1120	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1121	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1122	VCKYCY1HB331KY	AA		R	330p 50V Ceramic
C1123	VCKYCY1HB331KY	AA		R	330p 50V Ceramic
C1124	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1125	VCKYCY1HB471KY	AA		R	470p 50V Ceramic
C1126	VCKYCY1HB471KY	AA		R	470p 50V Ceramic
C1127	VCCCCY1HH101JY	AA		R	100p 50V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM11 (AV UNIT)					
C1128	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1130	VCEASY1CN477MY	AD		R	470 16V Electrolytic
C1131	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C1132	RC-KZA073WJZZY	AD		R	Capacitor
C1133	RC-KZA073WJZZY	AD		R	Capacitor
C1134	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1135	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1136	RC-KZA073WJZZY	AD		R	Capacitor
C1137	RC-KZA073WJZZY	AD		R	Capacitor
C1138	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1139	VCKYCY1HB331KY	AA		R	330p 50V Ceramic
C1140	VCKYCY1HB331KY	AA		R	330p 50V Ceramic
C1142	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1143	VCKYCY1HB471KY	AA		R	470p 50V Ceramic
C1144	VCKYCY1HB471KY	AA		R	470p 50V Ceramic
C1145	RC-KZA073WJZZY	AD		R	Capacitor
C1146	RC-KZA073WJZZY	AD		R	Capacitor
C1147	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1148	RC-KZA073WJZZY	AD		R	Capacitor
C1157	RC-KZA073WJZZY	AD		R	Capacitor
C1158	RC-KZA073WJZZY	AD		R	Capacitor
C1159	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C1160	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1161	RC-KZA073WJZZY	AD		R	Capacitor
C1162	VCEASY1CN477MY	AD		R	470 16V Electrolytic
C1201	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1202	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C1203	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1204	VCCCCY1HH100DY	AA		R	10p 50V Ceramic
C1205	RC-KZA073WJZZY	AD		R	Capacitor
C1206	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1207	VCCCCY1HH100DY	AA		R	10p 50V Ceramic
C1208	RC-KZA073WJZZY	AD		R	Capacitor
C1210	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1211	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1212	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1216	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1217	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C1218	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1219	VCEASY1CN476MY	AC		R	47 16V Electrolytic
C1220	RC-KZA073WJZZY	AD		R	Capacitor
C1221	RC-KZA073WJZZY	AD		R	Capacitor
C1222	RC-KZA073WJZZY	AD		R	Capacitor
C1223	RC-KZA073WJZZY	AD		R	Capacitor
C1224	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1225	VCCCCY1HH101JY	AA		R	100p 50V Ceramic
C1251	VCEASX1CN107MY	AC		R	100 16V Electrolytic
C1252	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C1253	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
D306	VHD1SS390++-1Y	AB		R	1SS390TE61
D307	VHD1SS390++-1Y	AB		R	1SS390TE61
D308	VHD1SS390++-1Y	AB		R	1SS390TE61
D309	VHD1SS390++-1Y	AB		R	1SS390TE61
D310	VHD1SS390++-1Y	AB		R	1SS390TE61
D311	RH-EXA103WJZZY	AB		R	UDZSTE-1736B
D312	RH-EXA103WJZZY	AB		R	UDZSTE-1736B
D313	RH-EX1026CEZZY			R	
D314	RH-EX1295CEZZY	AB		R	HZU30BTRF-E
D315	RH-EX1295CEZZY	AB		R	HZU30BTRF-E
D316	RH-EX1295CEZZY	AB		R	HZU30BTRF-E
D317	RH-EX1295CEZZY	AB		R	HZU30BTRF-E
D318	VHD1SS390++-1Y	AB		R	1SS390TE61
D1101	RH-EX1068CEZZY			R	
D1102	RH-EX1026CEZZY			R	
D1103	RH-EX1026CEZZY			R	
D1104	RH-EX1068CEZZY			R	
D1105	RH-EX1064CEZZY			R	
D1106	RH-EX1034CEZZY			R	
D1107	RH-EX1034CEZZY			R	
D1108	RH-EX1064CEZZY			R	
D1109	RH-EX1049CEZZY			R	
D1110	RH-EX1049CEZZY			R	
D1111	RH-EX1049CEZZY			R	
D1112	RH-EX1049CEZZY			R	
D1113	RH-EX1034CEZZY			R	
D1114	RH-EX1034CEZZY			R	
D1115	RH-EX1034CEZZY			R	
D1116	RH-EX1034CEZZY			R	
D1117	RH-EX1034CEZZY			R	
D1118	RH-EX1026CEZZY			R	
D1119	RH-EX1026CEZZY			R	
D1120	RH-EX1026CEZZY			R	
D1121	RH-EX1026CEZZY			R	
D1122	RH-EX1026CEZZY			R	
D1123	RH-EX1026CEZZY			R	

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM11 (AV UNIT)					
D1201	RH-EX1239CEZZY	AB		R	
FB1101	RBLN-0062TAZZY	AB		R	Balun
FB1102	RBLN-0062TAZZY	AB		R	Balun
FB1103	RBLN-0077TAZZY	AB		R	Balun
FB1104	RBLN-0077TAZZY	AB		R	Balun
FB1105	RBLN-0051TAZZY	AC		R	Balun
FB1106	RBLN-0062TAZZY	AB		R	Balun
FB1107	RBLN-0051TAZZY	AC		R	Balun
FB1108	RBLN-0062TAZZY	AB		R	Balun
FB1109	RBLN-0062TAZZY	AB		R	Balun
FB1110	RBLN-0062TAZZY	AB		R	Balun
FB1111	RBLN-0051TAZZY	AC		R	Balun
FB1112	RBLN-0051TAZZY	AC		R	Balun
FB1201	RBLN-0051TAZZY	AC		R	Balun
FB1202	RBLN-0051TAZZY	AC		R	Balun
FB1203	RBLN-0062TAZZY	AB		R	Balun
FB1204	RBLN-0062TAZZY	AB		R	Balun
FB1213	RBLN-0210TAZZY	AB		R	Balun
FB1218	RBLN-0254TAZZY	AB		R	Balun
FL1101	RFiLN0017TAZZY	AC		R	Filter
FL1102	RFiLN0017TAZZY	AC		R	Filter
FL1103	RFiLN0017TAZZY	AC		R	Filter
FL1104	RFiLN0017TAZZY	AC		R	Filter
FL1105	RFiLN0017TAZZY	AC		R	Filter
FL1106	RFiLN0017TAZZY	AC		R	Filter
FL1107	RFiLN0017TAZZY	AC		R	Filter
FL1108	RFiLN0017TAZZY	AC		R	Filter
FL1109	RFiLN0017TAZZY	AC		R	Filter
FL1110	RFiLN0017TAZZY	AC		R	Filter
FL1211	RFiLN0017TAZZY	AC		R	Filter
FL1212	RFiLN0017TAZZY	AC		R	Filter
iC301	VHiTDA8931T-1Y	AS		R	TDA8931T/N1,118
iC302	VHiTDA8931T-1Y	AS		R	TDA8931T/N1,118
iC303	VHiNJM4558M-1Y	AD		R	NJM4558M-TE1
IC1101	VHiMM1506XN-1Y	AD		R	MM1506XNRE
IC1102	VHiMM1506XN-1Y	AD		R	MM1506XNRE
IC1201	VHiMM1507XN-1Y	AD		R	MM1507XNRE
J1101	QSOCZA116WJZZ	AK		R	Socket
J1201	QJAKZA033WJZZ	AK		R	Jack
J1301	QJAKJA007WJZZ	AD		R	Jack
L301	RCiLPA697WJZZ	AE		R	Coil
L302	RCiLPA697WJZZ	AE		R	Coil
LUG301	QLUGHA009WJZZY	AC		R	Lug
LUG302	QLUGHA009WJZZY	AC		R	Lug
LUG303	QLUGHA009WJZZY	AC		R	Lug
LUG304	QLUGHA009WJZZY	AC		R	Lug
P301	QPLGNA173WJZZY	AD		R	Plug
P1101	QCNCMA250WJZZ	AE		R	Connector
P1102	QCNCMA250WJZZ	AE		R	Connector
P1201	QCNCMA250WJZZ	AE		R	Connector
Q301	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q302	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q303	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q304	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q305	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q306	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q307	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1101	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q1102	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q1103	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1104	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1105	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q1106	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q1107	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1108	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1201	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1202	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q1203	VSDTC314TK/-1Y	AC		R	DTC314TKT146
Q1204	VSDTC314TK/-1Y	AC		R	DTC314TKT146
R301	VRS-CJ1JF102JY	AA		R	1k 1/16W Metal Oxide
R302	VRS-CJ1JF104JY	AA		R	100k 1/16W Metal Oxide
R303	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R304	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R305	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R306	VRS-CJ1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R307	VRS-CJ1JF104JY	AA		R	100k 1/16W Metal Oxide
R308	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R309	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R310	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R311	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R312	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R313	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R314	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R315	VRS-CY1JF474JY	AA		R	470k 1/16W Metal Oxide
R316	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM11 (AV UNIT)					
R317	VRS-CY1JF474JY	AA		R	470k 1/16W Metal Oxide
R318	VRS-TW2HF820JY	AB		R	82 1/2W Metal Oxide
R319	VRS-CY1JF122JY	AA		R	1.2k 1/16W Metal Oxide
R320	VRS-CY1JF122JY	AA		R	1.2k 1/16W Metal Oxide
R321	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R322	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R323	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R324	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R325	VRS-CY1JF152JY	AA		R	1.5k 1/16W Metal Oxide
R326	VRS-CY1JF152JY	AA		R	1.5k 1/16W Metal Oxide
R327	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R328	VRS-CJ1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R329	VRS-CY1JF682JY	AA		R	6.8k 1/16W Metal Oxide
R330	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R331	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R333	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R334	VRS-CY1JF682JY	AA		R	6.8k 1/16W Metal Oxide
R335	VRS-TW2ED100JY	AA		R	10 1/4W Metal Oxide
R336	VRS-TW2ED100JY	AA		R	10 1/4W Metal Oxide
R337	VRS-TW2ED100JY	AA		R	10 1/4W Metal Oxide
R338	VRS-TW2ED100JY	AA		R	10 1/4W Metal Oxide
R339	VRS-TW2ED220JY	AB		R	22 1/4W Metal Oxide
R340	VRS-TW2ED220JY	AB		R	22 1/4W Metal Oxide
R343	VRS-TW2ED000JY	AB		R	0 1/4W Metal Oxide
R345	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R346	VRS-CY1JF560JY	AA		R	56 1/16W Metal Oxide
R347	VRS-CY1JF560JY	AA		R	56 1/16W Metal Oxide
R348	VRS-CJ1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R349	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R350	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R351	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R352	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R353	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R354	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R355	VRS-TW2ED2R7JY	AB		R	2.7 1/4W Metal Oxide
R356	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R358	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R360	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R1101	VRS-CY1JF153FY	AA		R	15k 1/16W Metal Oxide
R1102	VRS-CY1JF153FY	AA		R	15k 1/16W Metal Oxide
R1103	VRS-CY1JF393FY	AA		R	39k 1/16W Metal Oxide
R1104	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1105	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1106	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1107	VRS-TV1JD221JY	AA		R	220 1/16W Metal Oxide
R1108	VRS-CY1JF393FY	AA		R	39k 1/16W Metal Oxide
R1109	VRS-TV1JD221JY	AA		R	220 1/16W Metal Oxide
R1110	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1111	VRS-TW2ED680JY	AA		R	68 1/4W Metal Oxide
R1112	VRS-TW2ED680JY	AA		R	68 1/4W Metal Oxide
R1113	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1114	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1115	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1116	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1117	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1118	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1119	VRS-TW2ED101JY	AA		R	100 1/4W Metal Oxide
R1120	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1121	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1123	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1125	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1126	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1127	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1128	VRS-TW2ED101JY	AA		R	100 1/4W Metal Oxide
R1129	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1130	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1131	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R1134	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1137	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1138	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1139	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R1140	VRS-CJ1JF331JY	AA		R	330 1/16W Metal Oxide
R1141	VRS-CY1JF564JY	AA		R	560k 1/16W Metal Oxide
R1142	VRS-CY1JF564JY	AA		R	560k 1/16W Metal Oxide
R1143	VRS-CJ1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R1144	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1145	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1146	VRS-TV1JD221JY	AA		R	220 1/16W Metal Oxide
R1147	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1148	VRS-TV1JD221JY	AA		R	220 1/16W Metal Oxide
R1150	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1152	VRS-CJ1JF101JY	AA		R	100 1/16W Metal Oxide
R1153	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1154	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1155	VRS-CJ1JF331JY	AA		R	330 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] DUNTKD604FM11 (AV UNIT)					
R1156	VRS-CY1JF564JY	AA		R	560k 1/16W Metal Oxide
R1157	VRS-CY1JF564JY	AA		R	560k 1/16W Metal Oxide
R1158	VRS-CJ1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R1159	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1160	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1161	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R1173	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1177	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1179	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1201	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1202	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R1203	VRS-CY1JF682JY	AA		R	6.8k 1/16W Metal Oxide
R1204	VRS-CY1JF750JY	AA		R	75 1/16W Metal Oxide
R1206	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1209	VRS-TW2ED750JY	AA		R	75 1/4W Metal Oxide
R1210	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1211	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1212	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1213	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1214	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1215	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1216	VRS-CY1JF271JY	AA		R	270 1/16W Metal Oxide
R1217	VRS-CY1JF331JY	AA		R	330 1/16W Metal Oxide
R1218	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R1219	VRS-CY1JF271JY	AA		R	270 1/16W Metal Oxide
R1221	VRS-CY1JF331JY	AA		R	330 1/16W Metal Oxide
R1222	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R1224	VRS-CY1JF564JY	AA		R	560k 1/16W Metal Oxide
R1225	VRS-CY1JF564JY	AA		R	560k 1/16W Metal Oxide
R1226	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1227	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1228	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
SC301	QSOCZ0738CEZZ	AE		R	Socket
[5] RDENCA204WJQZ (POWER Unit)					
C6	9JG0034007969	AD			Capacitor, 0.47 16V Chip Ceramic
C10	9JG0034006911	AA			Capacitor, 1000p 50V Chip Ceramic
C11	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C12	9JG0034002177	AB			Capacitor, 47000p 50V Chip Ceramic
C13	9JG0034038538				Capacitor, 1 16V Chip Ceramic
C22	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C23	9JG0034008019	AD			Capacitor, 0.22 50V Chip Ceramic
C24	9JG0034006865	AA			Capacitor, 100p 50V Chip Ceramic
C25	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
⚠ C701	9JG0034012369	AG			Capacitor, 0.47 AC275V Film
⚠ C702	9JG0034029997				Capacitor, 0.33 AC275V Film
⚠ C703	9JG0034018278	AE			Capacitor, 0.1 AC275V Film
⚠ C704	9JG0034011540				Capacitor, 2200p AC250V Ceramic
⚠ C705	9JG0034011540				Capacitor, 2200p AC250V Ceramic
⚠ C706	9JG0034011540				Capacitor, 2200p AC250V Ceramic
⚠ C707	9JG0034011540				Capacitor, 2200p AC250V Ceramic
C710	9JG0034160996				Capacitor, 1 450V Film
C711	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C712	9JG0034006601	AG			Capacitor, 0.47 50V Film
C713	9JG0034017158	AA			Capacitor, 1000p 50V Chip Ceramic
C714	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C715	9JG0034017123	AC			Capacitor, 470p 50V Chip Ceramic
C716	9JG0034017158	AA			Capacitor, 1000p 50V Chip Ceramic
C717	9JG0034002177	AB			Capacitor, 47000p 50V Chip Ceramic
C718	9JG0034097356				Capacitor, 0.47 50V Chip Ceramic
C719	9JG0034017158	AA			Capacitor, 1000p 50V Chip Ceramic
C720	9JG0034002126	AB			Capacitor, 100p 50V Chip Ceramic
C721	9JG0034122164	AD			Capacitor, 10 6.3V Chip Ceramic
C722	9JG0034116962				Capacitor, 0.001 630V Film
C724	9JG0034019037	AG			Capacitor, 2200p 2kV Ceramic
C726	9JG0034094233	AV			Capacitor, 150 450V Electrolytic
C728	9JG0034094233	AV			Capacitor, 150 450V Electrolytic
C729	9JG0034006601	AG			Capacitor, 0.47 50V Film
C730	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C731	9JG0034058199	AC			Capacitor, 2.2 50V Electrolytic
C732	9JG0034033099	AD			Capacitor, 100p 1kV Ceramic
C733	9JG0034050694				Capacitor, 470p 2kV Ceramic
C734	9JG0034087121				Capacitor, 0.056 630V Film
C735	9JG0034033099	AD			Capacitor, 100p 1kV Ceramic
⚠ C736	9JG0034065829	AD			Capacitor, 220p AC250V Ceramic
⚠ C737	9JG0034065829	AD			Capacitor, 220p AC250V Ceramic
C739	9JG0034020310	AC			Capacitor, 2.2 10V Chip Ceramic
C741	9JG0034000204	AB			Capacitor, 0.1 50V Film
C742	9JG0034058199	AC			Capacitor, 2.2 50V Electrolytic
C743	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C745	9JG0034040370				Capacitor, 2.2 25V Chip Ceramic
C746	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C747	9JG0034007853	AC			Capacitor, 1 16V Chip Ceramic
C748	9JG0034021171	AC			Capacitor, 22 50V Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] RDENCA204WJQZ (POWER Unit)					
C751	9JG0034001960				Capacitor, 220p 2kV Ceramic
C752	9JG0034017093	AB			Capacitor, 220p 50V Chip Ceramic
C753	9JG0034021236				Capacitor, 1 50V Electrolytic
C754	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C755	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C756	9JG0034017085				Capacitor, 1500p 50V Chip Ceramic
C757	9JG0034122008				Capacitor, 470p 50V Chip Ceramic
C758	9JG0034021198	AC			Capacitor, 4.7 50V Electrolytic
C759	9JG0034021244				Capacitor, 47 50V Electrolytic
C760	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C761	9JG0034021244				Capacitor, 47 50V Electrolytic
C762	9JG0034087032				Capacitor, 0.01 630V Film
⚠ C763	9JG0034012261	AD			Capacitor, 470p AC250V Ceramic
⚠ C764	9JG0034012261	AD			Capacitor, 470p AC250V Ceramic
C769	9JG0034117764				Capacitor, 0.0047 250V Film
C770	9JG0034090114				Capacitor, 0.01 400V Film
C771	9JG0034164231				Capacitor, 470 100V Electrolytic
C772	9JG0034164231				Capacitor, 470 100V Electrolytic
C773	9JG0034046239				Capacitor, 0.22 25V Chip Ceramic
C782	9JG0034008434	AC			Capacitor, 1 25V Chip Ceramic
C783	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C785	9JG0034021201				Capacitor, 2200 10V Electrolytic
C786	9JG0034021201				Capacitor, 2200 10V Electrolytic
C787	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C788	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C790	9JG0034052840				Capacitor, 1000 25V Electrolytic
C791	9JG0034052840				Capacitor, 1000 25V Electrolytic
C792	9JG0034052840				Capacitor, 1000 25V Electrolytic
C793	9JG0034086346				Capacitor, 470 50V Electrolytic
C794	9JG0034086346				Capacitor, 470 50V Electrolytic
C799	9JG0034021171	AC			Capacitor, 22 50V Electrolytic
C800	9JG0034031819				Capacitor, 1000 10V Electrolytic
C801	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C802	9JG0034091811	AF			Capacitor, 470 25V Electrolytic
C803	9JG0034091811	AF			Capacitor, 470 25V Electrolytic
C804	9JG0034031940				Capacitor, 100 25V Electrolytic
C805	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C806	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C807	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C808	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C811	9JG0034017166	AB			Capacitor, 10000p 50V Chip Ceramic
C813	9JG0034021155				Capacitor, 470 25V Electrolytic
C818	9JG0034091811	AF			Capacitor, 470 25V Electrolytic
C819	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C820	9JG0034017174	AB			Capacitor, 0.1 50V Chip Ceramic
C821	9JG0034006059				Capacitor, 10 50V Electrolytic
C822	9JG0034021198	AC			Capacitor, 4.7 50V Electrolytic
D2	9JG0034038341	AE			Chip Diode, EC8FS6
⚠ D701	9JG0034017964	AE			Photocoupler, PS2571L1-1
⚠ D702	9JG0034017964	AE			Photocoupler, PS2571L1-1
⚠ D703	9JG0034017964	AE			Photocoupler, PS2571L1-1
⚠ D704	9JG0034017964	AE			Photocoupler, PS2571L1-1
⚠ D705	9JG0034017964	AE			Photocoupler, PS2571L1-1
⚠ D706	9JG0034017964	AE			Photocoupler, PS2571L1-1
⚠ D707	9JG0034017964	AE			Photocoupler, PS2571L1-1
D708	9JG0034017964	AE			Photocoupler, PS2571L1-1
⚠ D710	9JG0034016135	AM			Rectifier Stack, D5SBA60
D711	9JG0034003289	AD			Diode, S5688J
D712	9JG0034003289	AD			Diode, S5688J
D713	9JG0034038392	AF			Diode, RM3A
D714	9JG0034004668	AB			Diode, 1SS133
D715	9JG0034039208	AK			Rectifier Stack, FMX-G26S
D719	9JG0034004668	AB			Diode, 1SS133
D720	9JG0034004668	AB			Diode, 1SS133
D721	9JG0034007284	AC			Zener Diode, MTZJ18B
D722	9JG0034008922				Zener Diode, MTZJ6.8
D723	9JG0034004668	AB			Diode, 1SS133
D724	9JG0034004056	AC			Chip Diode, DAN202K
D725	9JG0034004668	AB			Diode, 1SS133
D726	9JG0034004056	AC			Chip Diode, DAN202K
D727	9JG0034008922				Zener Diode, MTZJ6.8
D728	9JG0034004056	AC			Chip Diode, DAN202K
D729	9JG0034004668	AB			Diode, 1SS133
D730	9JG0034008922	AC			Zener Diode, MTZJ6.8
D732	9JG0034078483				Zener Diode, MTZJ6.2
D733	9JG0034004668	AB			Diode, 1SS133
D734	9JG0034021902				Zener Diode, MTZJ10
D735	9JG0034012377				Zener Diode, MTZJ22
D736	9JG0034011974				Diode, 1SS244
D737	9JG0034019363				Diode, 10ERB20
D738	9JG0034011974				Diode, 1SS244
D740	9JG0034009686				Diode, SARS02
D741	9JG0034009686				Diode, SARS02
D742	9JG0034007284	AC			Zener Diode, MTZJ18B

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] RDENCA204WJQZ (POWER Unit)					
D743	9JG0034004668	AB			Diode, 1SS133
D744	9JG0034004668	AB			Diode, 1SS133
D745	9JG0034004668	AB			Diode, 1SS133
D746	9JG0034004668	AB			Diode, 1SS133
D750	9JG0034168326				Rectifier Stack, FCH20A20
D752	9JG0034078483				Zener Diode, MTZJ6.2
D753	9JG0034004668	AB			Diode, 1SS133
D754	9JG0034006261				Zener Diode, MTZJ27
D755	9JG0034004897				Zener Diode, MTZJ20
D756	9JG0034011974				Diode, 1SS244
D757	9JG0034067198				Rectifier Stack, FCH20A10
D758	9JG0034003580				Rectifier Stack, FMX-G12S
D759	9JG0034083398				Diode, EU02
D760	9JG0034002967	AD			Chip Diode, 1SS226
D761	9JG0034030863				Zener Diode, MTZJ10.0
D762	9JG0034007284	AC			Zener Diode, MTZJ18B
D763	9JG0034007284	AC			Zener Diode, MTZJ18B
D764	9JG0034029970				Zener Diode, MTZJ8.2
D766	9JG0034004668	AB			Diode, 1SS133
D767	9JG0034004668	AB			Diode, 1SS133
D768	9JG0034021902	AC			Zener Diode, MTZJ10
D771	9JG0034013314				Zener Diode, MTZJ12
D772	9JG0034004668	AB			Diode, 1SS133
D773	9JG0034007276				Zener Diode, MTZJ36
D774	9JG0034007276				Zener Diode, MTZJ36
D775	9JG0034004668	AB			Diode, 1SS133
D776	9JG0034009856				Zener Diode, MTZJ15
D777	9JG0034004668	AB			Diode, 1SS133
D778	9JG0034004889	AC			Zener Diode, MTZJ5.6
D779	9JG0034004668	AB			Diode, 1SS133
D780	9JG0034004919				Zener Diode, MTZJ2.7
D781	9JG0034004668	AB			Diode, 1SS133
D782	9JG0034006105				Zener Diode, MTZJ5.1
D783	9JG0034078483				Zener Diode, MTZJ6.2
D784	9JG0034148422				Zener Diode, MTZJ3.9
D785	9JG0034004919				Zener Diode, MTZJ2.7
D786	9JG0034004668	AB			Diode, 1SS133
D787	9JG0034004668	AB			Diode, 1SS133
D788	9JG0034006261				Zener Diode, MTZJ27
D789	9JG0034004897				Zener Diode, MTZJ20
D790	9JG0034004919				Zener Diode, MTZJ2.7
D791	9JG0034004668	AB			Diode, 1SS133
D792	9JG0034004056	AC			Chip Diode, DAN202K
D794	9JG0034016607	AG			Rectifier Stack, FMB-G14L
D798	9JG0034004919				Zener Diode, MTZJ2.7
D799	9JG0034004056	AC			Chip Diode, DAN202K
D800	9JG0034004056	AC			Chip Diode, DAN202K
D801	9JG0034011974				Diode, 1SS244
D802	9JG0034064350				Zener Diode, MTZJ4.7
D803	9JG0034004056	AC			Chip Diode, DAN202K
D804	9JG0034073511				Chip Diode, SFPM-52
D805	9JG0034004056	AC			Chip Diode, DAN202K
D806	9JG0034036888				Chip Diode, SFPX-63
D807	9JG0034064946				Diode, AG01Z
D808	9JG0034004897				Zener Diode, MTZJ20
D809	9JG0034004897				Zener Diode, MTZJ20
⚠ F701	9JG0034088292				Ceramic Fuse, AC250V 6.3A
FB701	9JG0034018456				Ferrite Bead, BL02RN1
FB702	9JG0034027765				Ferrite Bead, G5BT 3X2X1
FB703	9JG0034027765				Ferrite Bead, G5BT 3X2X1
FB704	9JG0034027765				Ferrite Bead, G5BT 3X2X1
FB705	9JG0034027765				Ferrite Bead, G5BT 3X2X1
IC701	9JG0034037760	AL			IC, MC33262D
IC702	9JG0034050953				IC, STR-W6765
IC703	9JG0034020736	AG			IC, AN1431T
IC704	9JG0034020736	AG			IC, AN1431T
IC705	9JG0034050279				IC, SI-3010KF
IC708	9JG0034159041				IC, SI-8008HFE
IC709	9JG0034020736	AG			IC, AN1431T
IC710	9JG0034067929				IC, ÉþPC393G2
⚠ L701	9JG0034129630				Reactor, DRB25-03A-133NP
⚠ L702	9JG0034129630				Reactor, DRB25-03A-133NP
⚠ L703	9JG0034110999				Reactor, HK-10S080-1210
⚠ L704	9JG0037172111				Reactor, EXZ40790-204
L705	9JG0034027358	AE			Reactor, 270mA22ÉþH
L706	9JG0034027358	AE			Reactor, 270mA22ÉþH
L708	9JG0030600150				Reactor, CX40357-005
L709	9JG0034063702				Reactor, HK-10S100-4500
L710	9JG0030600150				Reactor, CX40357-005
Q701	9JG0034008523	AC			Chip Transistor, DTA143EKA
Q702	9JG0034003351	AE			Transistor, 2SC2655
Q703	9JG0034000697	AE			Transistor, 2SA1020
⚠ Q704	9JG0034095167	AP			FET, RDX100N60
⚠ Q705	9JG0034095167	AP			FET, RDX100N60
Q706	9JG0034008523	AC			Chip Transistor, DTA143EKA

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
	[5] RDENCA204WJQZ (POWER Unit)					
⚠	Q707	9JG0034075387				FET, 2SK3687
⚠	Q708	9JG0034075387				FET, 2SK3687
	Q709	9JG0034008523	AC			Chip Transistor, DTA143EKA
⚠	Q710	9JG0034027978	AE			FET, 2SK2731
	Q711	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q712	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q713	9JG0034027978	AE			FET, 2SK2731
	Q714	9JG0034027455	AC			Chip Transistor, 2SA1037AK
	Q715	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q716	9JG0034008523	AC			Chip Transistor, DTA143EKA
	Q717	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q718	9JG0034031703				Transistor, 2SC3852A
	Q721	9JG0034000239				Transistor, 2SC1815
	Q722	9JG0034004072	AC			Chip Transistor, 2SC2412K
⚠	Q726	9JG0034095337				FET, 2SK2421
	Q727	9JG0034003351	AE			Transistor, 2SC2655
⚠	Q728	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q729	9JG0034065152	AC			Chip Transistor, DTC114EKA
	Q731	9JG0034050309				FET, 2SK3659
	Q732	9JG0034065152	AC			Chip Transistor, DTC114EKA
	Q733	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q734	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q735	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q736	9JG0034008523	AC			Chip Transistor, DTA143EKA
	Q737	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q738	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q739	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q740	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q741	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q742	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q745	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q746	9JG0034065152	AC			Chip Transistor, DTC114EKA
	Q747	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q750	9JG0034027978	AE			FET, 2SK2731
	Q751	9JG0034009139				FET, 2SK2865
	Q752	9JG0034004072	AC			Chip Transistor, 2SC2412K
	Q753	9JG0034004072	AC			Chip Transistor, 2SC2412K
	R7	9JG0034051852				Chip Resistor, 4.7 1/8W
	R9	9JG0034025401				Chip Resistor, 100 1/10W
	R13	9JG0034048401				Chip Resistor, 2.2k 1/10W
	R15	9JG0034025630				Chip Resistor, 22k 1/10W
⚠	R702	9JG0034066817	AF			Resistor, 3.9M 1W Special Power
⚠	R703	9JG0034066817	AF			Resistor, 3.9M 1W Special Power
	R704	9JG0034005273	AA			Chip Resistor, 1k 1/8W
	R705	9JG0034015139	AB			Resistor, 470k 1/2W Special Power
	R706	9JG0034015139	AB			Resistor, 470k 1/2W Special Power
	R707	9JG0034016259	AA			Chip Resistor, 100k 1/10W
	R708	9JG0034001472				Resistor, 470k 1/4W Carbon
	R709	9JG0034001472				Resistor, 470k 1/4W Carbon
	R710	9JG0034067430				Resistor, 330k 1/4W Carbon
	R711	9JG0034003882	AA			Chip Resistor, 15k 1/10W
	R712	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
	R713	9JG0034001359				Resistor, 470 1/4W Carbon
	R714	9JG0034003874	AA			Chip Resistor, 22k 1/10W
	R715	9JG0034003874	AA			Chip Resistor, 22k 1/10W
	R716	9JG0034004331	AA			Chip Resistor, 5.6k 1/8W
	R717	9JG0034003866	AA			Chip Resistor, 6.8k 1/10W
	R718	9JG0034016240	AA			Chip Resistor, 10k 1/10W
	R719	9JG0034003742	AA			Chip Resistor, 100 1/10W
	R721	9JG0034033900	AB			Resistor, 1 1/2W Metal Oxide
	R723	9JG0034014957				Resistor, 22 1W Metal Oxide
	R724	9JG0034014957				Resistor, 22 1W Metal Oxide
	R725	9JG0034016259	AA			Chip Resistor, 100k 1/10W
	R726	9JG0034066906	AE			Resistor, 0.1 3W Metal Oxide
	R727	9JG0034152713				Resistor, 820k 1/2W Special Power
	R728	9JG0034152713				Resistor, 820k 1/2W Special Power
	R729	9JG0034004145				Chip Resistor, 8.2k 1/10W
	R730	9JG0034005974	AA			Chip Resistor, 10k 1/10W
	R731	9JG0034016372				Chip Resistor, 270 1/10W
	R732	9JG0034028141	AB			Resistor, 680K 1/2W Special Power
	R733	9JG0034161798				Resistor, 560K 1/2W Special Power
	R734	9JG0034165041				Resistor, 390k 1/2W Special Power
	R735	9JG0034016259	AA			Chip Resistor, 100k 1/10W
	R737	9JG0034016283	AA			Chip Resistor, 220 1/10W
	R738	9JG0034063788				Chip Resistor, 39 1/10W
	R740	9JG0034001898	AB			Resistor, 0.22 1/2W Metal Oxide
	R741	9JG0034016259	AA			Chip Resistor, 100k 1/10W
	R742	9JG0034019061				Resistor, 4.7 1/2W Metal Oxide
	R743	9JG0034003653	AB			Resistor, 10 1/2W Metal Oxide
	R744	9JG0034016259	AA			Chip Resistor, 100k 1/10W
	R751	9JG0034001405				Resistor, 4.7k 1/4W Carbon
	R752	9JG0034016259	AA			Chip Resistor, 100k 1/10W
	R753	9JG0034001421	AD			Resistor, 10k 1/4W Carbon
	R754	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
	R755	9JG0034004595	AA			Chip Resistor, 56k 1/10W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] RDENCA204WJQZ (POWER Unit)					
R756	9JG0034003920	AA			Chip Resistor, 0 1/10W
R757	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R758	9JG0034004595	AA			Chip Resistor, 56k 1/10W
R759	9JG0034005176	AA			Chip Resistor, 470k 1/10W
R760	9JG0034016259	AA			Chip Resistor, 100k 1/10W
R761	9JG0034001421	AD			Resistor, 10k 1/4W Carbon
R762	9JG0034001464				Resistor, 100k 1/4W Carbon
R763	9JG0034004005	AA			Chip Resistor, 27k 1/10W
R764	9JG0034005931				Chip Resistor, 12k 1/10W
R765	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R766	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R767	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R768	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R769	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R770	9JG0034003742	AA			Chip Resistor, 100 1/10W
R771	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R772	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R773	9JG0034003920	AA			Chip Resistor, 0 1/10W
R774	9JG0034004013				Chip Resistor, 390 1/10W
R775	9JG0034005230	AA			Chip Resistor, 22 1/8W
R776	9JG0034001421	AD			Resistor, 10k 1/4W Carbon
R777	9JG0034017816				Chip Resistor, 22k 1/10W
R778	9JG0034073473				Chip Resistor, 1.5k 1/10W
R779	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R780	9JG0034033900	AB			Resistor, 1 1/2W Metal Oxide
R781	9JG0034031185				Resistor, 0.33 2W Metal Oxide
R782	9JG0034003742	AA			Chip Resistor, 100 1/10W
R783	9JG0034004390	AB			Resistor, 2.2 1/2W Metal Oxide
R784	9JG0034016313	AA			Chip Resistor, 2.7k 1/10W
R785	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R786	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R787	9JG0034033897				Resistor, 1k 1/2W Metal Oxide
R788	9JG0034003874	AA			Chip Resistor, 22k 1/10W
R789	9JG0034003653	AB			Resistor, 10 1/2W Metal Oxide
R790	9JG0034053065				Resistor, 0.22 1W Metal Oxide
R791	9JG0034015139	AB			Resistor, 470k 1/2W Special Power
R792	9JG0034083797				Resistor, 22 3W Metal Oxide
R793	9JG0034019258				Resistor, 150K 1/2W Special Power
R794	9JG0034019258				Resistor, 150K 1/2W Special Power
R795	9JG0034023832				Resistor, 56k 1/2W Metal Oxide
R796	9JG0034023832				Resistor, 56k 1/2W Metal Oxide
R797	9JG0034023832				Resistor, 56k 1/2W Metal Oxide
R798	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R799	9JG0034003599	AB			Resistor, 100 1/2W Metal Oxide
R800	9JG0034003866	AA			Chip Resistor, 6.8k 1/10W
R801	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R802	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R803	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R804	9JG0034036586				Resistor, 10k 1W Metal Oxide
R805	9JG0034003920	AA			Chip Resistor, 0 1/10W
R806	9JG0034018162	AA			Chip Resistor, 1.5k 1/10W
R807	9JG0034018162	AA			Chip Resistor, 1.5k 1/10W
R808	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R809	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R811	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R812	9JG0034001391				Resistor, 2.2k 1/4W Carbon
R813	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R815	9JG0034016380				Chip Resistor, 390 1/10W
R816	9JG0034005966				Chip Resistor, 8.2k 1/10W
R817	9JG0034016364	AA			Chip Resistor, 2.2k 1/10W
R824	9JG0034023883				Resistor, 22k 1/4W Carbon
R825	9JG0034001421	AD			Resistor, 10k 1/4W Carbon
R826	9JG0034030448	AA			Chip Resistor, 1.2k 1/10W
R827	9JG0034005966				Chip Resistor, 8.2k 1/10W
R828	9JG0034007349	AA			Chip Resistor, 1k 1/10W
R829	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R830	9JG0034004226	AB			Resistor, 22 1/2W Metal Oxide
R831	9JG0034001383				Resistor, 1k 1/4W Carbon
R832	9JG0034024154	AA			Chip Resistor, 820 1/10W
R833	9JG0034005966				Chip Resistor, 8.2k 1/10W
R834	9JG0034007349	AA			Chip Resistor, 1k 1/10W
R842	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R843	9JG0034004315	AA			Chip Resistor, 2.2k 1/8W
R844	9JG0034016259	AA			Chip Resistor, 100k 1/10W
R845	9JG0034003742	AA			Chip Resistor, 100 1/10W
R846	9JG0034004293	AA			Chip Resistor, 100 1/8W
R847	9JG0034004293	AA			Chip Resistor, 100 1/8W
R848	9JG0034004293	AA			Chip Resistor, 100 1/8W
R849	9JG0034004293	AA			Chip Resistor, 100 1/8W
R850	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R851	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R852	9JG0034005257	AA			Chip Resistor, 470 1/8W
R853	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R854	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R855	9JG0034003742	AA			Chip Resistor, 100 1/10W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] RDENCA204WJQZ (POWER Unit)					
R856	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R857	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R858	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R859	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R860	9JG0034003742	AA			Chip Resistor, 100 1/10W
R861	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R862	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R863	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R864	9JG0034016321	AA			Chip Resistor, 47k 1/10W
R865	9JG0034003920	AA			Chip Resistor, 0 1/10W
R866	9JG0034016321	AA			Chip Resistor, 47k 1/10W
R867	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R868	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R869	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R870	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R871	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R872	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R873	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R874	9JG0034001391				Resistor, 2.2k 1/4W Carbon
R875	9JG0034003955	AA			Chip Resistor, 4.7k 1/10W
R876	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R883	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R884	9JG0034004021	AA			Chip Resistor, 470 1/10W
R885	9JG0034003971				Chip Resistor, 150 1/10W
R886	9JG0034016291	AA			Chip Resistor, 2.2k 1/10W
R887	9JG0034053901				Chip Resistor, 560 1/10W
R888	9JG0034006768	AA			Chip Resistor, 3.9k 1/10W
R889	9JG0034024154	AA			Chip Resistor, 820 1/10W
R890	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R893	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R894	9JG0034001383				Resistor, 1k 1/4W Carbon
R895	9JG0034016240	AA			Chip Resistor, 10k 1/10W
R896	9JG0034003750	AA			Chip Resistor, 1k 1/10W
R897	9JG0034022526				Resistor, 47k 1/4W Carbon
R898	9JG0034003904	AA			Chip Resistor, 10k 1/8W
R899	9JG0034016259	AA			Chip Resistor, 100k 1/10W
R900	9JG0034003793				Chip Resistor, 33k 1/10W
R901	9JG0034003793				Chip Resistor, 33k 1/10W
R902	9JG0034016321	AA			Chip Resistor, 47k 1/10W
R903	9JG0034003688	AA			Chip Resistor, 3.3k 1/10W
⚠ RL701	9JG0034160953				Relay, SDT-S-118DMR
⚠ T701	9JG0037172103				Transformer, EXT45841-407
⚠ T702	9JG0037172081				Transformer, EXT41641-408
TH701	9JG0034022038				Thermistor, SCK15086M
⚠ VA701	9JG0034054207	AF			Surge Absorber, ERZV10D471
⚠ VA702	9JG0034054207	AF			Surge Absorber, ERZV10D471
Z1	9JG0034037736	AS			IC, SPF9001
LA	9JG0034062420				Connector, B6P-VH
PA	9JG0034132844				Connector, TWG-P23P-A1
PB	9JG0034028508				Connector, TWG-P9P-A1
PC	9JG0034075476				Connector, TWG-P7P-A1
PL	9JG0034094713	AG			Connector, B04B-PASK-1
⚠ SC701	9JG0034078424	AL			Receptacle, CCT2302-0711
TK701	9JG0034139466				Sheet Metal Fitting
TK702	9JG0034139466				Sheet Metal Fitting
TK703	9JG0034139466				Sheet Metal Fitting
TK704	9JG0034139466				Sheet Metal Fitting
TK705	9JG0034139466				Sheet Metal Fitting
1	9JG0034098026	AG			Sheet Metal Fitting
2	9JG0034015775				Sheet Metal Fitting x2
4	9JG0034168601				Heat Sink
5	9JG0034161372				Heat Sink x2
⚠ 6	9JG0034164983				Heat Sink x2
⚠ 7	9JG0034164991				Heat Sink
⚠ 9	9JG0034017611	AA			Screw x11
⚠ 10	9JG0034031983				Screw x4
11	9JG0034114846				Name Plate
⚠ 1	9JG0034114838				Sheet Metal Fitting
⚠ 2	9JG0034114773				Sheet Metal Fitting
PN1	9JG0034007837				Lead Frame x14
[6] DUNTKD833FM02 (D-TUNER Unit)					
C202	VCCCCY1HH220JY	AA		R	22p 50V Ceramic
C203	VCCCCY1HH220JY	AA		R	22p 50V Ceramic
C204	VCEASX0JN108MY	AE		R	1000 6.3V Electrolytic
C205	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C206	VCEASX1CN107MY	AC		R	100 16V Electrolytic
C207	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C208	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C209	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C211	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C212	VCEASX1HN106MY	AC		R	10 50V Electrolytic
C222	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C227	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] DUNTKD833FM02 (D-TUNER Unit)					
C230	VCEASX1HN106MY	AC		R	10 50V Electrolytic
C233	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C235	VCCCCY1HH150JY	AA		R	15p 50V Ceramic
C236	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C237	VCEASX1HN225MY	AB		R	2.2 50V Electrolytic
C241	VCEASX1AN336MY	AC		R	33 10V Electrolytic
C242	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C243	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C244	VCEASX0JN226MY	AB		R	22 6.3V Electrolytic
C245	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C246	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C247	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C248	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C249	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C250	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C251	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C252	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C253	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C254	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C256	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C257	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C258	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C259	VCCCCY1HH2R0CY	AA		R	20p 50V Ceramic
C260	VCCCCY1HH150JY	AA		R	15p 50V Ceramic
C261	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C262	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C263	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C266	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C267	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C268	VCKYCY1EB104KY	AB		R	0.1 25V Ceramic
C269	VCKYCY1EB104KY	AB		R	0.1 25V Ceramic
C270	VCAAPD0JJ227MY	AF		R	220 6.3V Electrolytic
C271	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C272	VCKYCY1HB102KY	AA		R	1000p 50V Ceramic
C273	VCAAPD0JJ227MY	AF		R	220 6.3V Electrolytic
C279	RC-KZA073WJZZY	AD		R	Capacitor
D202	RH-EXA102WJZZY	AB		R	UDZSTE-1733B
FB201	RBLN-0210TAZZY	AB		R	Balun
FB202	RBLN-0065CEZZY	AC		R	Balun
FB203	RBLN-0060TAZZY	AB		R	Balun
IC201	VHiT7WB125A-1Y	AE		R	TC7WBD125AFK(T5L,F)
IC202	RH-iXB682WJZZQ	AZ		R	STV0360C
IC204	VHiLV4053FT-1Y			R	TC74LVX4053FT(EL)
IC205	VHiPQ1M185M-1Y	AD		R	PQ1M185M2SPQ
IC206	VHiMM3033E+-1Y	AD		R	MM3033EURE
L206	VPCUN1R5MR12NY	AC		R	Peaking 1.5uH
L207	VPCNN2R2JR77NY	AB		R	Peaking 2.2uH
L208	VPCNN2R2JR77NY	AB		R	Peaking 2.2uH
L209	VPCNN2R2JR77NY	AB		R	Peaking 2.2uH
L210	VPCNN2R2JR77NY	AB		R	Peaking 2.2uH
L213	VPCKM330J3R9NY	AB		R	Peaking 33uH
LUG201	QLUGHA009WJZZY	AC		R	Lug
LUG202	QLUGHA009WJZZY	AC		R	Lug
LUG203	QLUGHA009WJZZY	AC		R	Lug
P201	QCNCMA012WJZZ	AD		R	Connector
P202	QCNCMA250WJZZ	AE		R	Connector
Q203	VS2SC2735//1EY	AC		R	2SC2735JC21TL
Q209	VSRN4904///-1Y	AB		R	RN4904(TE85L,F)
Q210	VS2SC2735//1EY	AC		R	2SC2735JC21TL
R201	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R205	VRS-CY1JF750JY	AA		R	75 1/16W Metal Oxide
R207	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R208	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R209	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R211	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R213	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R214	VRS-CY1JF100JY	AA		R	10 1/16W Metal Oxide
R215	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R216	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R217	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R218	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R220	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R225	VRS-TW2ED561JY	AA		R	560 1/4W Metal Oxide
R226	VRS-CY1JF273JY	AA		R	27k 1/16W Metal Oxide
R227	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R228	VRS-TQ2BD1R0JY	AA		R	1 1/8W Metal Oxide
R237	VRS-CY1JF331JY	AA		R	330 1/16W Metal Oxide
R238	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R241	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R242	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R243	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R245	VRS-CH1JF103JY	AA		R	10k 1/16W Metal Oxide
R247	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R248	VRS-CY1JF153JY	AA		R	15k 1/16W Metal Oxide
R255	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] DUNTKD833FM02 (D-TUNER Unit)					
R256	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R259	VRS-CY1JF151JY	AA		R	150 1/16W Metal Oxide
R264	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R265	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R266	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R267	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R268	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R269	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R270	VRS-CY1JF514JY	AA		R	510k 1/16W Metal Oxide
R271	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R272	VRS-CH1JF000JY	AA		R	0 1/16W Metal Oxide
R273	VRS-CH1JF000JY	AA		R	0 1/16W Metal Oxide
R274	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R275	VRS-TW2HF1R8JY	AA		R	1.8 1/2W Metal Oxide
R276	VRS-TW2HF1R8JY	AA		R	1.8 1/2W Metal Oxide
R277	VRS-TW2HF1R8JY	AA		R	1.8 1/2W Metal Oxide
R281	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R282	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R283	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R284	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R285	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R286	VRS-CY1JF100JY	AA		R	10 1/16W Metal Oxide
R287	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R289	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R290	VRS-CY1JF181JY	AA		R	180 1/16W Metal Oxide
R293	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R294	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
⚠ TU201	RTUNQA034WJZZ			R	Tuner
X202	RCRSCA039WJZZY	AG		R	Crystal
[7] DIGITAL Unit (DUNTKD833FM02)					
C4001	VCEASX1HN105MY	AB		R	1 50V Electrolytic
C4002	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4003	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4004	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4005	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4006	VCCCCY1HH180JY	AA		R	18p 50V Ceramic
C4007	VCCCCY1HH150JY	AA		R	15p 50V Ceramic
C4008	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4009	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4010	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4011	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4012	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4013	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4014	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4015	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4016	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4017	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4018	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4019	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4020	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4021	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4022	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4023	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4024	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4025	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4026	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4027	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4028	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4029	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4030	VCEASX0JN476MY	AC		R	47 6.3V Electrolytic
C4031	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4032	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4033	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4201	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4202	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4203	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4204	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4205	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4206	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C4207	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4209	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4401	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4402	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4403	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4404	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4405	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4406	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4407	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4408	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4409	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4410	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4411	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4412	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4420	VCAAPD1AJ686MY	AE		R	68 10V Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DIGITAL Unit (DUNTKD833FM02)					
C4606	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4607	VCCCCY1HH470JY	AA		R	47p 50V Ceramic
C4608	VCCCCY1HH100DY	AA		R	10p 50V Ceramic
C4610	VCCCCY1HH470JY	AA		R	47p 50V Ceramic
C4611	VCCCCY1HH330JY	AA		R	33p 50V Ceramic
C4612	VCCCCY1HH330JY	AA		R	33p 50V Ceramic
C4613	VCCCCY1HH330JY	AA		R	33p 50V Ceramic
C4614	VCCCCY1HH6R0DY	AA		R	60p 50V Ceramic
C4615	VCCCCY1HH6R0DY	AA		R	60p 50V Ceramic
C4616	VCCCCY1HH6R0DY	AA		R	60p 50V Ceramic
C4617	VCCCCY1HH820JY	AA		R	82p 50V Ceramic
C4618	VCCCCY1HH820JY	AA		R	82p 50V Ceramic
C4619	VCCCCY1HH820JY	AA		R	82p 50V Ceramic
C4621	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4622	RC-KZA073WJZZY	AD		R	Capacitor
C4623	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4624	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4625	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4626	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4627	VCKYCY1HB332KY	AA		R	3300p 50V Ceramic
C4628	VCKYCY1HB332KY	AA		R	3300p 50V Ceramic
C4629	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4632	VCKYCY1HB332KY	AA		R	3300p 50V Ceramic
C4633	VCKYCY1HB332KY	AA		R	3300p 50V Ceramic
C4634	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4635	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4636	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C4637	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C4638	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C4639	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4640	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4641	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C4701	RC-KZA070WJZZY	AD		R	Capacitor
C4702	VCKYTV1CB105KY	AC		R	1 16V Ceramic
C4703	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4705	VCKYCY1HB152KY	AA		R	1500p 50V Ceramic
C4706	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4707	VCAAPD1AJ686MY	AE		R	68 10V Electrolytic
C4708	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4709	RC-KZA073WJZZY	AD		R	Capacitor
C4710	VCEASY1CN476MY	AC		R	47 16V Electrolytic
C4711	RC-KZA073WJZZY	AD		R	Capacitor
C4713	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4714	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C4715	VCEASX0JN476MY	AC		R	47 6.3V Electrolytic
C4716	VCKYCY1AB105KY	AB		R	1 10V Ceramic
C4717	VCEASX0JN226MY	AB		R	22 6.3V Electrolytic
D4701	RH-EX1234CEZZY	AE		R	HZU3.6B2TRF
D4702	VHDSFPA73//2EY	AD		R	SFPA-73VL
D4703	VHD1SS352//-1Y			R	1SS352(TPH3,F)
FB4001	RBLN-A215WJZZY	AB		R	Balun
FB4002	RBLN-A215WJZZY	AB		R	Balun
FB4003	RBLN-A215WJZZY	AB		R	Balun
FB4004	RBLN-A215WJZZY	AB		R	Balun
FB4005	RBLN-A215WJZZY	AB		R	Balun
FB4006	RBLN-A215WJZZY	AB		R	Balun
FB4007	RBLN-A215WJZZY	AB		R	Balun
FB4008	RBLN-A303WJZZY	AB		R	Balun
FB4009	RBLN-A303WJZZY	AB		R	Balun
FB4201	RBLN-A215WJZZY	AB		R	Balun
FB4202	RBLN-A215WJZZY	AB		R	Balun
FB4401	RBLN-A215WJZZY	AB		R	Balun
FB4402	RBLN-A215WJZZY	AB		R	Balun
FB4601	RBLN-A215WJZZY	AB		R	Balun
FB4602	RBLN-A215WJZZY	AB		R	Balun
FB4603	RBLN-A215WJZZY	AB		R	Balun
FB4701	RBLN-0250TAZZY	AC		R	Balun
IC4001	RH-iXB680WJZZQ	BH		R	STI5516AUCL
IC4002	VHiSN1G08DC-1Y	AD		R	SN74AHC1G08HDCK3
IC4003	VHiBU4228G+-1Y	AD		R	BU4228G-TR
IC4005	VHiSN1GU04C-1Y	AD		R	SN74AHC1GU04HDCK3
IC4201	RH-iXB742WJZZQ	AX		R	K4S641632K-UC75
IC4202	RH-iXB742WJZZQ	AX		R	K4S641632K-UC75
IC4203	RH-iXB921WJZZQ		N	R	
IC4204	VHiBR24L64F-1Y	AK		R	BR24L64F-WE2
IC4401	VHiTCLCX245-2Y	AE		R	TC74LCX245FT(EL)
IC4402	VHiLCX573FT-1Y			R	TC74LCX573FT(EKJ)
IC4403	VHiSN1G08DC-1Y	AD		R	SN74AHC1G08HDCK3
IC4404	VHiLCX244FT-1Y			R	TC74LCX244FT(EL,K)
IC4405	VHiLCX573FT-1Y			R	TC74LCX573FT(EKJ)
IC4406	VHiSN1G32DC-1Y	AD		R	SN74AHC1G32HDCK3
IC4407	VHiSN1G32DC-1Y	AD		R	SN74AHC1G32HDCK3
IC4408	VHiSN1G02DC-1Y	AD		R	SN74AHC1G02HDCK3
IC4604	VHiTSH73CPT-1Y	AL		R	TSH73CPT
IC4701	VHiMP1583++-1Y	AH		R	MP1583DN-LF-Z

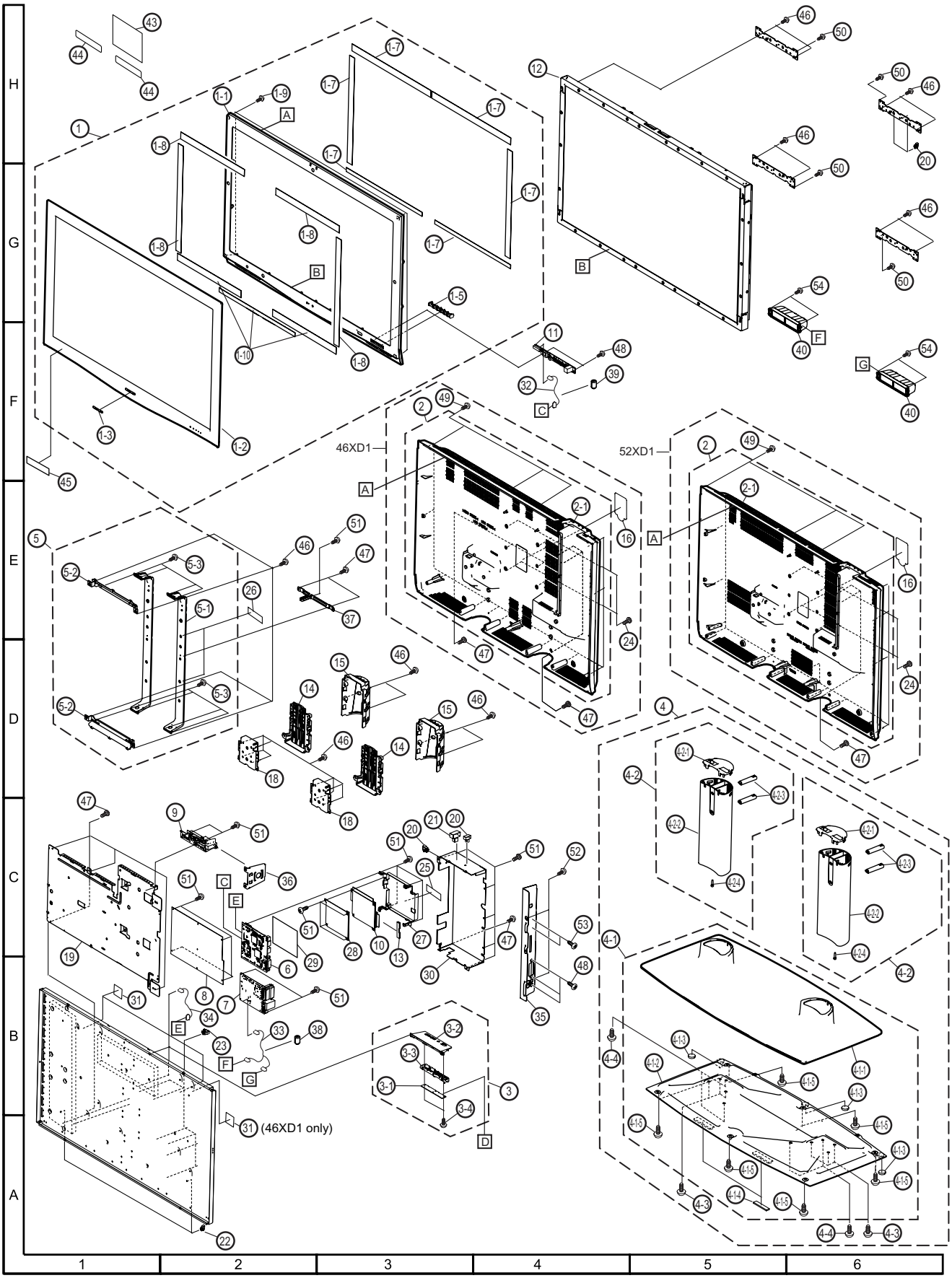
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DIGITAL Unit (DUNTKD833FM02)					
IC4704	VHiPQ018ENA-1Y	AF		R	PQ018ENA1ZPH
L4601	VPD9M100J1R7NY	AC		R	Peaking 10uH
L4603	VPD9M5R6J1R6NY	AB		R	Peaking 5.6uH
L4604	VPD9M5R6J1R6NY	AB		R	Peaking 5.6uH
L4605	VPD9M5R6J1R6NY	AB		R	Peaking 5.6uH
L4701	RCiLPA214WJZZY	AG		R	Coil
LUG4601	QLUGHA009WJZZY	AC		R	Lug
LUG4602	QLUGHA006WJZZY	AC		R	Lug
LUG4603	QLUGHA006WJZZY	AC		R	Lug
LUG4604	QLUGHA009WJZZY	AC		R	Lug
P4001	QPLGN0463TAZZY	AC		R	Plug
P4003	QPLGN0463TAZZY	AC		R	Plug
Q4001	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4002	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4201	VS2SA1530AR-1Y	AB		R	2SA1530A-T112-1R
Q4401	RH-TXA026WJZZY	AD		R	PBLS2001D,115
Q4601	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4602	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4603	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4604	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4605	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4606	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4607	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4701	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q4702	VSDTC144EE/-1Y	AA		R	DTC144EETL
Q4703	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q4704	VSCPH6318++-1Y			R	CPH6318-TL-E
R4001	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4002	VRS-CY1JF201FY	AA		R	200 1/16W Metal Oxide
R4003	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4004	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4005	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4006	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4007	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4008	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4009	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R4010	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4011	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4012	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4013	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4015	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4016	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4017	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4018	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4019	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4020	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R4021	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R4024	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4025	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4026	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4027	VRS-CH1JF000JY	AA		R	0 1/16W Metal Oxide
R4028	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4029	VRS-CY1JF330JY	AA		R	33 1/16W Metal Oxide
R4030	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4031	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4032	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4035	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4036	VRS-CH1JF103JY	AA		R	10k 1/16W Metal Oxide
R4037	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4038	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4039	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4190	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4191	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4192	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4193	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4194	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4195	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4196	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4197	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4201	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4202	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4203	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4204	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4205	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4206	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4207	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4208	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4209	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4210	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4211	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4212	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4213	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4214	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4215	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4216	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DIGITAL Unit (DUNTKD833FM02)					
R4217	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4218	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4219	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4220	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4221	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4222	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4223	VRS-CH1JF103JY	AA		R	10k 1/16W Metal Oxide
R4224	VRS-CH1JF103JY	AA		R	10k 1/16W Metal Oxide
R4225	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4226	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4227	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4228	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4229	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4230	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4231	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4232	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4233	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4234	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4235	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4236	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4237	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4238	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4239	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4240	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4241	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4242	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4243	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4244	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4245	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide
R4246	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4247	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4248	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4249	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide
R4250	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4251	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4401	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4402	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4403	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4404	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4405	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4406	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4407	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4408	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4409	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4410	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4411	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4412	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4413	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4414	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4415	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4416	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4417	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4418	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4419	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4420	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4421	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4422	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4425	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4426	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4427	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4428	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4429	VRS-CH1JF470JY	AA		R	47 1/16W Metal Oxide
R4430	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R4431	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4432	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4433	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4434	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4441	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4447	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R4601	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4602	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4603	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4604	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4605	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4606	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4607	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4608	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4609	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4616	VRS-CY1JF470FY	AA		R	47 1/16W Metal Oxide
R4617	VRS-CY1JF331FY	AA		R	330 1/16W Metal Oxide
R4618	VRS-CY1JF331FY	AA		R	330 1/16W Metal Oxide
R4619	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4620	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4621	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4622	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] DIGITAL Unit (DUNTKD833FM02)					
R4623	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4624	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4626	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4627	VRS-CY1JF272FY	AA		R	2.7k 1/16W Metal Oxide
R4628	VRS-CY1JF242FY	AA		R	2.4k 1/16W Metal Oxide
R4629	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4630	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4631	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R4632	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R4633	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R4634	VRS-CY1JF240JY	AA		R	24 1/16W Metal Oxide
R4635	VRS-CY1JF240JY	AA		R	24 1/16W Metal Oxide
R4636	VRS-CY1JF240JY	AA		R	24 1/16W Metal Oxide
R4637	VRS-CY1JF240JY	AA		R	24 1/16W Metal Oxide
R4638	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R4639	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R4640	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R4643	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4644	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4645	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4646	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4647	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4648	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4649	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4650	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4651	VRS-CY1JF183JY	AA		R	18k 1/16W Metal Oxide
R4652	VRS-CY1JF183JY	AA		R	18k 1/16W Metal Oxide
R4657	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4658	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4659	VRS-CY1JF331FY	AA		R	330 1/16W Metal Oxide
R4660	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R4661	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R4662	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4663	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4664	VRS-CY1JF271FY	AA		R	270 1/16W Metal Oxide
R4665	VRS-CY1JF161FY	AA		R	160 1/16W Metal Oxide
R4666	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4667	VRS-CY1JF161FY	AA		R	160 1/16W Metal Oxide
R4668	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4669	VRS-CY1JF161FY	AA		R	160 1/16W Metal Oxide
R4670	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4672	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4673	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4674	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R4675	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R4701	VRS-CY1JF474FY	AA		R	470k 1/16W Metal Oxide
R4702	VRS-CY1JF273FY	AA		R	27k 1/16W Metal Oxide
R4703	VRS-CY1JF153FY	AA		R	15k 1/16W Metal Oxide
R4704	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide
R4705	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4706	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4707	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4708	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R4709	VRS-TX2HF000JY	AB		R	0 1/2W Metal Oxide
R4710	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R4711	VRS-TX2HF000JY	AB		R	0 1/2W Metal Oxide
R4712	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R4713	VRS-TX2HF1R0JY	AB		R	1 1/2W Metal Oxide
R4715	VRS-TX2HF000JY	AB		R	0 1/2W Metal Oxide
R4716	VRS-TX2HF000JY	AB		R	0 1/2W Metal Oxide
R4717	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
SC4601	QCNCWA202WJZZY	AK		R	Connector
SC4602	QSOCNA003WJZZY	AM		R	Socket
X4001	RCRSC0032TAZZY	AG		R	Crystal
X4002	RCRUAA075WJZZY	AQ		R	
[8] DUNTKD910FM01 (KEY Unit)					
D151	RH-EX0646GEZZY	AA		R	MTZJT-7215B
D152	RH-EX0646GEZZY	AA		R	MTZJT-7215B
D155	RH-EX0646GEZZY	AA		R	MTZJT-7215B
P151	QPLGNA058WJZZ	AC		R	Plug
R151	VRD-RA2BE822JY	AA		R	8.2k 1/8W Carbon
R152	VRD-RA2BE123JY	AA		R	12k 1/8W Carbon
R153	VRD-RA2BE822JY	AA		R	8.2k 1/8W Carbon
S151	QSW-K0003AJZZ+	AB		R	Switch
S152	QSW-K0003AJZZ+	AB		R	Switch
S153	QSW-K0003AJZZ+	AB		R	Switch
S154	QSW-K0003AJZZ+	AB		R	Switch
S155	QSW-K0003AJZZ+	AB		R	Switch
S157	QSW-K0003AJZZ+	AB		R	Switch

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[9] DUNTKD909FM01 (R/C Unit)					
C102	VCKYTV1CF225ZY	AB		R	2.2 16V Ceramic
C104	VCEASX1CN106MY	AC		R	10 16V Electrolytic
C105	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C107	VCEASY1CN107MY	AC		R	100 16V Electrolytic
D101	RH-EXA092WJZZY	AB		R	UDZSTE-1712B
D103	RH-PX0421CEZZY	AD		R	CL-165HR/YG-D-T
D114	RH-PX0421CEZZY	AD		R	CL-165HR/YG-D-T
D115	RH-PX0421CEZZY	AD		R	CL-165HR/YG-D-T
IC101	VHiTPS850++-1Y	AG		R	TPS850
P101	QPLGNA333WJZZY	AD		R	Plug
Q102	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q103	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q106	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
Q107	VS2SC3928AR-1Y	AB		R	2SC3928A-T112-1R
R101	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R102	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R104	VRS-CY1JF273JY	AA		R	27k 1/16W Metal Oxide
R108	VRS-CY1JF161JY	AA		R	160 1/16W Metal Oxide
R109	VRS-CY1JF821JY	AA		R	820 1/16W Metal Oxide
R121	VRS-CY1JF821JY	AA		R	820 1/16W Metal Oxide
R122	VRS-CY1JF161JY	AA		R	160 1/16W Metal Oxide
R123	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R124	VRS-CJ1JF103JY	AA		R	10k 1/16W Metal Oxide
R135	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RMC101	RRMCUA053WJZZ	AE		R	Remote Receiver
SLD101	PSLDM4646CEFW	AD		R	Shield

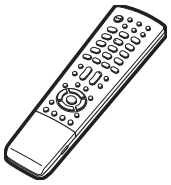
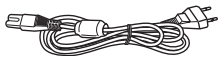
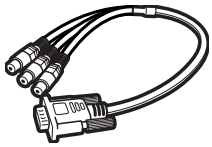
[10] CABINET PARTS

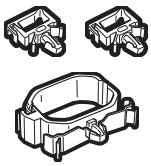
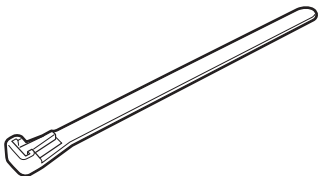


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[10] CABINET PARTS					
1	CCABAB605WJ01		N	R	Front Cabinet Ass'y (46XD1)
1	CCABAB606WJ01		N	R	Front Cabinet Ass'y (52XD1)
1-1	Not Available	-	N	-	Front Cabinet (46XD1)
1-1	Not Available	-	N	-	Front Cabinet (52XD1)
1-2	GCOVAB920WJSA		N	R	Cover (46XD1)
1-2	GCOVAB922WJSA		N	R	Cover (52XD1)
1-3	HBDGBA061WJSA			R	SHARP Badge
1-5	HDECQA667WJSA			R	LED Cover
1-7	PSPAHA884WJZZ		N	R	Masking Himeron-H x6 (52XD1)
1-7	PSPAHA886WJZZ		N	R	Masking Himeron-H x6 (46XD1)
1-8	PSPAZB269WJZZ		N	R	Front Cover Tape x 4 (52XD1)
1-8	PSPAZB268WJZZ		N	R	Front Cover Tape x 4 (46XD1)
1-9	XJPS730P08WS0	AA		R	Screw x 4
1-10	PSPAZB194WJZZ			R	Front Cover Tape x 3 (52XD1)
1-10	PSPAZB193WJZZ			R	Front Cover Tape x 3 (46XD1)
2	CCABBA947WJ01		N	R	Rear Cabinet Ass'y (46XD1)
2	CCABBA948WJ01		N	R	Rear Cabinet Ass'y (52XD1)
2-1	Not Available	-	N	-	Rear Cabinet (46XD1)
2-1	Not Available	-	N	-	Rear Cabinet (52XD1)
3	CCOVAB923WJ01		N	R	Top Cover Ass'y
3-1	DUNTKD910FM01		N	R	Key PWB Unit
3-2	Not Available	-	N	-	Top Cover
3-3	JBTN-A615WJKA		N	R	Button
3-4	XEBS930P10000	AA		R	Screw x 2
4	CDAi-A325WJ04			R	Stand Ass'y
4-1	CDAi-A325WJ03		N	R	Stand
4-1-1	Not Available	-	N	-	Stand Base Cover
4-1-2	LANGKA887WJZZ			R	Base Angle
4-1-3	PSPAZB181WJZZ			R	Leg Cushion A x 3
4-1-4	PSPAZB182WJZZ			R	Leg Cushion B x 2
4-1-5	XEBS940P10000	AB		R	Screw x 6
4-2	CDAi-A326WJ01			R	Stand x 2
4-2-1	GCOVAB815WJKA			R	Cover
4-2-2	GDAi-A326WJSA		N	R	Stand
4-2-3	HDECQA670WJKA		N	R	Decoration Plate x 2
4-2-4	NSFTZA181WJF7			R	Shaft
4-3	LX-BZA162WJF7			R	Screw x 6
4-4	LX-BZA163WJF7			R	Screw x 4
5	CANGTA359WJ01		N	R	Center Angle Ass'y (52XD1)
5	CANGTA363WJ01		N	R	Center Angle Ass'y (46XD1)
5-1	Not Available	-	N	-	Center Angle x 2
5-2	LANGKA800WJFW		N	R	LCD Angle x 2
5-3	XBBS740P08000	AA		R	Screw x 8
6	DUNTKD915FM01		N	R	Main PWB Unit
7	DUNTKD604FM11		N	R	AV PWB Unit
8	RDENCA204WJQZ		N	R	Power PWB Unit
9	DUNTKD833FM02			R	D-Tuner PWB Unit
10	DUNTKD628FM06		N	R	Digital PWB Unit
11	DUNTKD909FM01			R	R/C PWB Unit
12	R1LK520D3LZ1A		N	R	52" Panel Unit
12	R1LK460D3LZ1AZ		N	R	46" Panel Unit
13	GCOVAB586WJKA			R	PC Card Cover
14	GCOVAB924WJKA		N	R	Bottom Cover Front x 2
15	GCOVAB925WJKA		N	R	Bottom Cover Rear x 2
16	HiNDPB875WJSA		N	R	Model Label (52XD1) for E/F/K
16	HiNDPB876WJSA		N	R	Model Label (52XD1) for I
16	HiNDPB877WJSA		N	R	Model Label (52XD1) for R
16	HiNDPB878WJSA		N	R	Model Label (46XD1) for E/F/K
16	HiNDPB879WJSA		N	R	Model Label (46XD1) for I
16	HiNDPB880WJSA		N	R	Model Label (46XD1) for R
17	LANGKA801WJFW		N	R	LCD Side Angle x4
18	LANGTA361WJN1		N	R	Stand Angle x 2
19	LCHSMA338WJFW		N	R	Chassis Tray
20	LHLDWA092WJZZ	AB		R	Holder x 4
21	LHLDW1173CEZZ	AB		R	Holder
22	LHLDW1033CE00	AB		R	Holder x 2
23	LHLDWA141WJZZ			R	Holder
24	LX-BZA170WJF9		N	R	Screw x 4
25	PMLT-A165WJZZ		N	R	Gasket x 2
26	PMLT-A073WJZZ			R	Conductive Tape x 2
27	PSLDMA943WJFW			R	Digital Shield
28	PSLDMB056WJFW			R	Digital Back Shield
29	PSLDMB055WJFW		N	R	Main Shield
30	PSLDMB057WJFW		N	R	Full Shield
31	PSPAHA975WJZZ		N	R	Spacer x 3 (46XD1) Spacer x 2 (52XD1)
32	QCNW-E854WJQZ		N	R	Connecting Cord (46XD1)
33	QCNW-E855WJQZ		N	R	Connecting Cord (46XD1)
32	QCNW-F044WJQZ		N	R	Connecting Cord (52XD1)
33	QCNW-F045WJQZ		N	R	Connecting Cord (52XD1)
34	QCNW-F050WJQZ		N	R	Connecting Cord
35	LANGKA889WJSA		N	R	Tarminal Angle
36	QEARZA102WJFW		N	R	Tuner Earth Plate
37	QEARZA103WJFW		N	R	Earth Angle
38	RCORF0103CEZZ	AK		R	Core
39	RCORFA023WJZZ	AK		R	Core

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[10] CABINET PARTS					
40	RSP-ZA201WJZZ		N	R	Speaker x 2
43	TLABN0134BMZZ			R	Sees Label x 2
44	TLABNB415WJZZ			R	No. Label
45	TLABZB315WJZZ		N	R	Pop Label
46	XBBS740P08000	AA		R	Screw x 16
47	XBBS830P06000	AA		R	Screw x 12
48	XEBS930P10000	AA		R	Screw x 5
49	XEBS940P20000	AB		R	Screw x 13 (46XD1) Screw x 18 (52XD1)
50	XEBSN40P10000	AB		R	Screw x 4
51	XJPS730P08WS0	AA		R	Screw x 22
52	XJPS730P06WS0			R	Screw x 2
53	XBPS830P06000	AA		R	Screw x 2
54	LX-HZA003WJFN	AC		R	Screw x 4

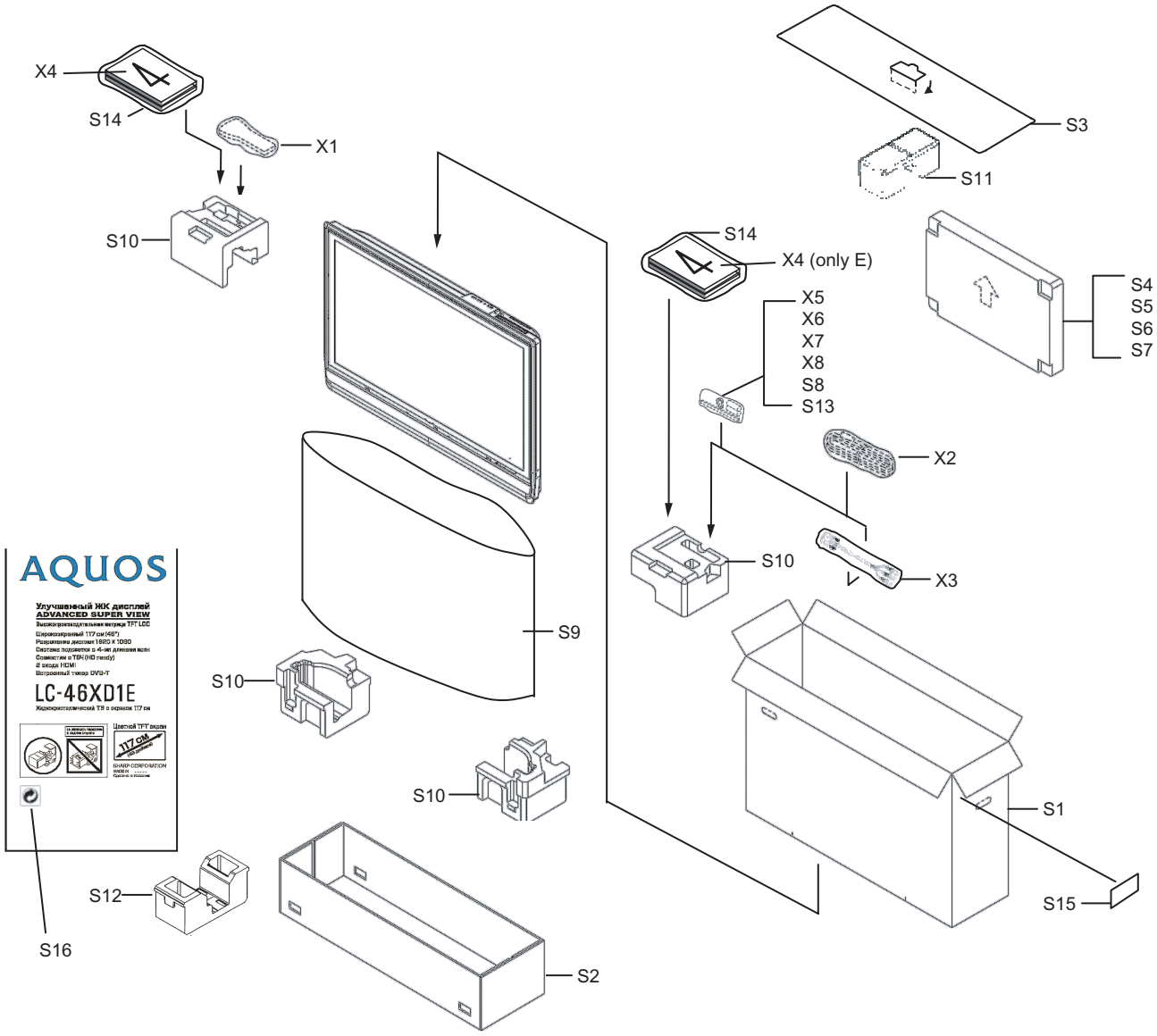
[11] SUPPLIED ACCESSORIES

Remote control unit	AC cord	RCA to 15-pin D-sub adapter
X1 	X2  *The shape of plug varies in some countries.	X3 

Cable clamp	Cable band
X5, X7 	X6 

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[11] SUPPLIED ACCESSORIES					
X1	RRMCGA538WJSA		N	R	Infrared R/C (46XD1)
X1	RRMCGA533WJSA		N	R	Infrared R/C (52XD1)
⚠ X2	QACCKA021WJPZ			R	AC Cord for E/F/I/R
⚠ X2	QACCBA073WJPZ			R	AC Cord for K
X3	QCNWGA075WJPZ	AU		R	D-Sub 15Pin-RCA
X4	TiNS-C596WJZZ		N	R	Operation Manual (English)
X4	TiNS-C597WJZZ		N	R	Operation Manual (Swedish)
X4	TiNS-C598WJZZ		N	R	Operation Manual (Polish)
X4	TiNS-C599WJZZ		N	R	Operation Manual (Russian)
X5	LHLDWA012WJKZ	AC		R	Cable Clamp x 2
X6	LHLDWA083WJ00	AD		R	Cable Pad
X7	LHLDWA131WJKZ	AE		R	Cable Clamp
X8	UBATUA009WJZZ	AD		R	Battery

[12] PACKING PARTS (NOT REPLACEMENT ITEM)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[12] PACKING PARTS (NOT REPLACEMENT ITEM)					
S1	SPAKCD118WJZZ	–	N	–	Packing Case Top (46XD1) for E/F/I/K
S1	SPAKCD119WJZZ	–	N	–	Packing Case Top (46XD1) for R
S2	SPAKCD134WJZZ	–	N	–	Packing Case Bottom (46XD1)
S1	SPAKCD116WJZZ	–	N	–	Packing Case Top (52XD1) for E/F/I/K
S1	SPAKCD117WJZZ	–	N	–	Packing Case Top (52XD1) for R
S2	SPAKCD126WJZZ	–	N	–	Packing Case Bottom (52XD1)
S3	SPAKFB140WJZZ	–	N	–	Top Pad (46XD1)
S3	SPAKFB141WJZZ	–	N	–	Top Pad (52XD1)
S4	SPAKFB108WJZZ	–		–	Stand Case
S5	SPAKFB114WJZZ	–	N	–	Stand Pad
S6	SPAKPA778WJZZ	–		–	Mirro Mat Base
S7	SPAKPA779WJZZ	–		–	Mirror Mat Supp x 2
S8	SSAKHA025WJZZ	–		–	Polyethylene Bag
S9	SPAKPA711WJZZ	–	N	–	Wrapping Paper (46XD1)
S9	SPAKPA712WJZZ	–	N	–	Wrapping Paper (52XD1)
S10	SPAKXB311WJZZ	–	N	–	Pad x 4 (46XD1)
S10	SPAKXB308WJZZ	–	N	–	Pad x 4 (52XD1)
S11	SPAKXB309WJZZ	–		–	EPS Center Top (52XD1)
S11	SPAKXB315WJZZ	–		–	EPS Center Top (46XD1)
S12	SPAKXB310WJZZ	–	N	–	EPS Center Bottom (52XD1)
S12	SPAKXB316WJZZ	–	N	–	EPS Center Bottom (46XD1)
S13	SSAKAA009WJZZ	–		–	Polyethylene Bag for W/S Band
S14	SSAKAA010WJZZ	–		–	A4 Polyethylene Bag
S15	TLABKA002WJZZ	–		–	Case No Label
S16	TLABKA050WJZZ	–		–	Green Dot Label only F

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[13] SERVICE JIGS (USER FOR SERVICING)					
A	QCNW-C222WJQZ	AW		R	80pins, x2used, LCD Cont. to LCD Panel Unit
B	QCNW-E687WJQZ		N	R	14pins, (LA)
C	QCNW-E688WJQZ		N	R	8pins, (LB)
D	QCNW-E689WJQZ		N	R	4-20pins, (PL)
E	QCNW-E690WJQZ		N	R	41pins, (LV)
F	QCNWGA015WJPZ	AK		R	Interface Cable, 9pins, D-sub - Mini DIN, (AN-AIRS
G	QCNWKA011WJZZ	BH	N	S	33pins, Digital Unit to Main Unit
H	QCNWKA012WJZZ	BP	N	S	Digital Software Writing Jig