SHARP SERVICE MANUAL

No. SY1V132LE340M

LCD COLOUR TELEVISION

MODELS LC-32LE240M LC-32LE340M

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

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

SHARP CORPORATION

SAFETY PRECAUTION

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:**

■WARNING

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

■BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

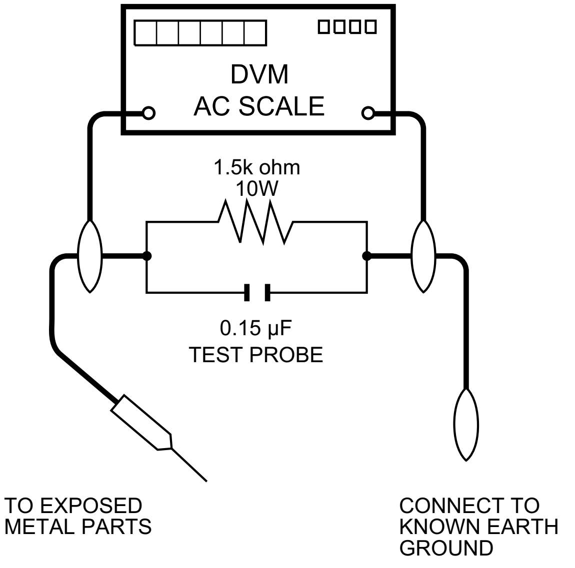
Before returning the receiver to the user, perform the following safety checks:

3. 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.
4. 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.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 110-240 volt AC outlet.
- 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.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- 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 0.74 Vrms (this corresponds to 0.5 mA rms 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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SAFETY NOTICE

Many electrical and mechanical parts in LCD colour television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " ⚠ " and shaded areas in the Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

//

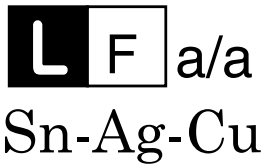
PRECAUTIONS FOR USING LEAD-FREE SOLDER

■Employing lead-free solder

- "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.



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

■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.

■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

PARTS CODE	PRICE RANK	PART DELIVERY	DESCRIPTION
ZHNDAi123250E	BL	J	ϕ0.3mm 250g (1roll)
ZHNDAi126500E	BK	J	ϕ0.6mm 500g (1roll)
ZHNDAi12801KE	BM	J	ϕ1.0mm 1kg (1roll)

OUTLINE

MAJOR SERVICE PARTS

■PWB UNIT

Ref No.	Part No.	Description
N	DUNTKF998FMG4	MAIN Unit (LC-32LE340M)
N	DKEYMF998FMG5	MAIN Unit (LC-32LE240M)
N	RUNTKA929WJQZ	POWER Unit
N	RUNTKA927WJZZ	LED PWB A
N	RUNTKA928WJZZ	LED PWB B

■OTHER UNIT

Ref No.	Part No.	Description
N	R1LK315T3HB00W	LCD Panel Unit

CHAPTER 1. SPECIFICATIONS

[1] SPECIFICATIONS

Item \ Model			LC-32LE240M	LC-32LE340M
Screen size			80 cm	
Resolution			1,049,088 pixels (1366 x 768)	
Video Color System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
TV Function	TV-Standard		NTSC: M	
	Receiving Channel	VHF/UHF	48.00 ── 863.25 MHz	
		CATV	S1 ── S41ch (including Hyperband)	
	TV-Tuning System		Auto Preset 99 ch	
	STEREO/BILINGUAL		MTS: M	
Viewing angles			H : 176º V : 176º	
Audio amplifier/Speakers			5 W x 2 / 3.14 x 14.4 cm 2pcs	
Terminals	Antenna input		UHF/VHF 75 Ω DIN type	
	INPUT 1		HDMI (HDMI input), AUDIO in (ϕ3.5 mm jack)	
	INPUT 2		VIDEO in, AUDIO in	
	INPUT 3		VIDEO in, AUDIO in, COMPONENT in	
	INPUT 4 (PC input)		15 pin mini D-sub, AUDIO in (common use with INPUT 1) (ϕ 3.5 mm jack)	
	AUDIO OUT		AUDIO out	
	USB		USB	
	Headphone		ϕ 3.5 mm stereo	
OSD language			English/Simplified Chinese/Arabic/French/Portuguese/Russian/Persian/Thai/ Vietnamese/Indonesian	
Power Requirement			AC 110 ── 240 V, 50/60 Hz	
Power Consumption			55 W (0.8 W Standby)	
Dimensions		without stand	750 (W) x 478 (H) x 55 (D) mm	
		with stand	750 (W) x 508 (H) x 222 (D) mm	
Weight			7.6 kg (without stand) / 8.5 kg (with stand)	
Operating Temperature			0°C ── 40°C	

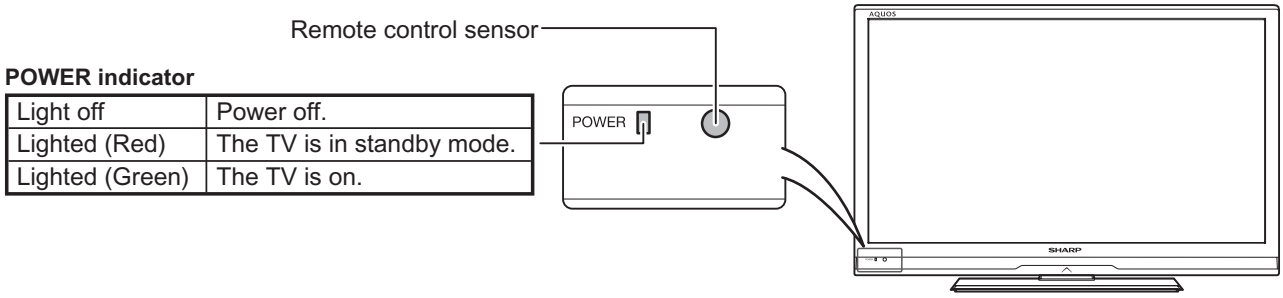
- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual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

CHAPTER 2. OPERATION MANUAL

[1] OPERATION MANUAL

Part names

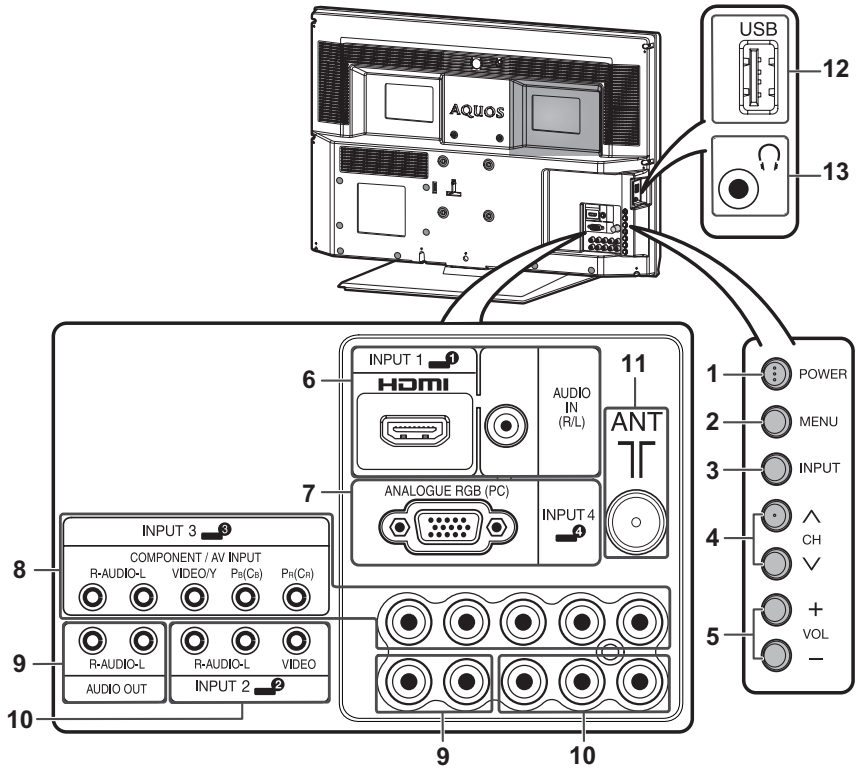
TV (Front)



POWER indicator

Light off	Power off.
Lighted (Red)	The TV is in standby mode.
Lighted (Green)	The TV is on.

TV (Rear)

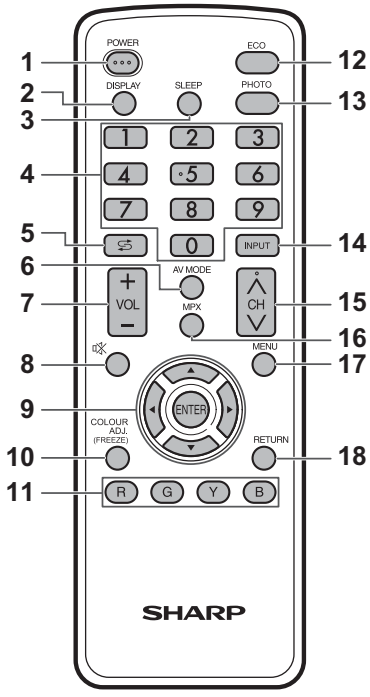


1 **POWER** (On/Off) button
2 **MENU** button
3 **INPUT** button
4 Channel up (∧)/down (∨) buttons
5 Volume up (+) /down (-) buttons
6 INPUT 1 (HDMI) terminal*
7 INPUT 4 terminal*
8 INPUT 3 terminals
9 AUDIO OUT terminals
10 INPUT 2 terminals
11 Antenna input terminal
12 USB terminal
13 Headphone jack (ϕ3.5 mm)
- The speakers do not output volume when headphones are plugged in.

* The INPUT 1 and INPUT 4 terminals can both use the same audio input terminal. However, the proper item must be selected in the "PC audio select" menu.

- The illustrations in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The illustrations used throughout this manual are based on LC-32LE340M.

Remote control unit



1 POWER (STANDBY/ON)
To switch the power on and off.

2 DISPLAY
Display the channel or input information.

3 SLEEP
Set the Sleep timer.

0 hr. 30 min. → 1 hr. 00 min. → 1 hr. 30 min.
↓
2 hr. 00 min. ← 2 hr. 30 min. ← Off

4 0 … 9
Set the channel.

5 (Flashback)
Press to return to the previous selected channel or external input mode.

6 AV MODE
Select an audio and video setting.

7 VOL+ /VOL-
Set the volume.
(**VOL +**) Increasethe volume.
(**VOL -**) Decreasethe volume.

8 (Mute)
Press → Mutes sound.
Press again → Restores sound.
Mute will be canceled after 30 minutes. However, the TV will not suddenly output loud sound as the volume level will be set to 0 automatically. Increase the volume level by pressing **VOL +** .

9 ▲/▼/◄/► (Cursor)
Select a desired item on the setting screen.
ENTER
Execute a command.

10 COLOUR ADJ. (FREEZE)
Freeze a motion picture on the screen and adjust the color tone of the still image.

11 Color (Red/Green/Yellow/Blue)
The colored buttons are correspondingly used to select the colored items on the screen.

12 ECO
Reduce overall power consumption based on user preferences.

13 PHOTO
Display your pictures directly on the TV screen.

14 INPUT (INPUT SOURCE)
Select an input source.

15 CH∧/CH∨
TV input mode: Select the channel.
(**CH∧**) Increase the channel number.
(**CH∨**) Decrease the channel number.

16 MPX
Select the sound multiplex mode.

17 MENU
Display the menu screen.

18 RETURN
MENU mode: Return to the previous menu screen.

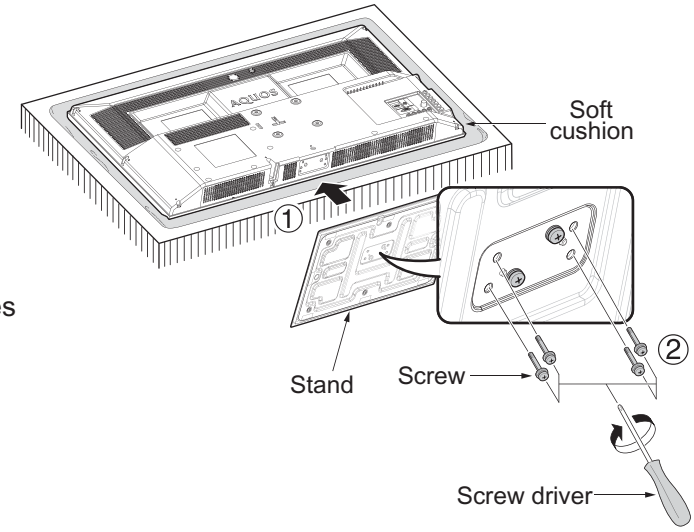
Attaching the stand

- Before attaching (or detaching) the stand, unplug the AC cord from the AC outlet.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

1 Confrm the screws supplied with the TV.
Screws (x 4)
(used in step 3)

2 Insert the stand base to the stand post on the bottom of the TV. (①)

3 Insert and tighten the 4 screws into the 4 holes on the bottom of the stand base. (②)



NOTE

- To detach the stand, perform the steps in reverse order.

CAUTION

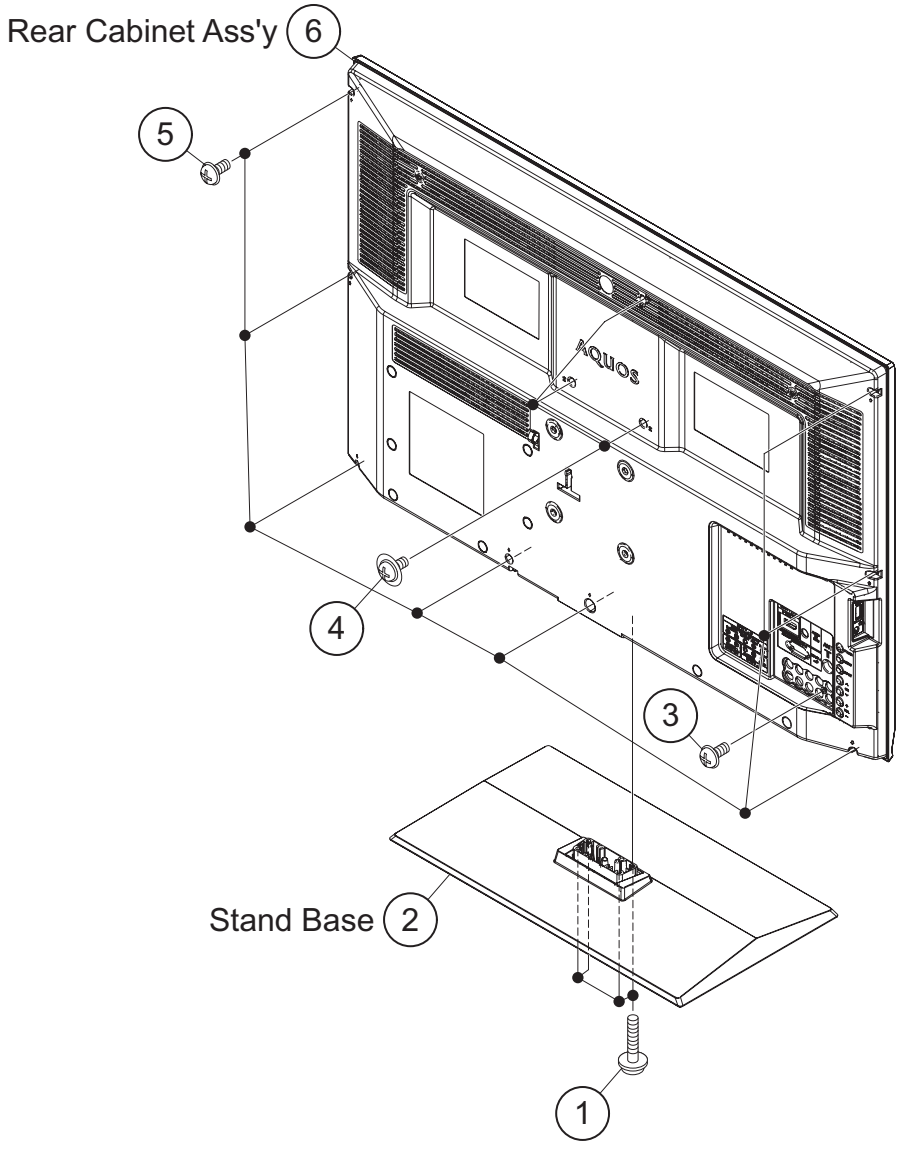
- Do not attach or detach the stand without holding it. Doing so can cause the stand to fall, resulting in serious personal injuries as well as damage to the stand.

CHAPTER 3. REMOVING OF MAJOR PARTS

[1] REMOVING OF MAJOR PARTS

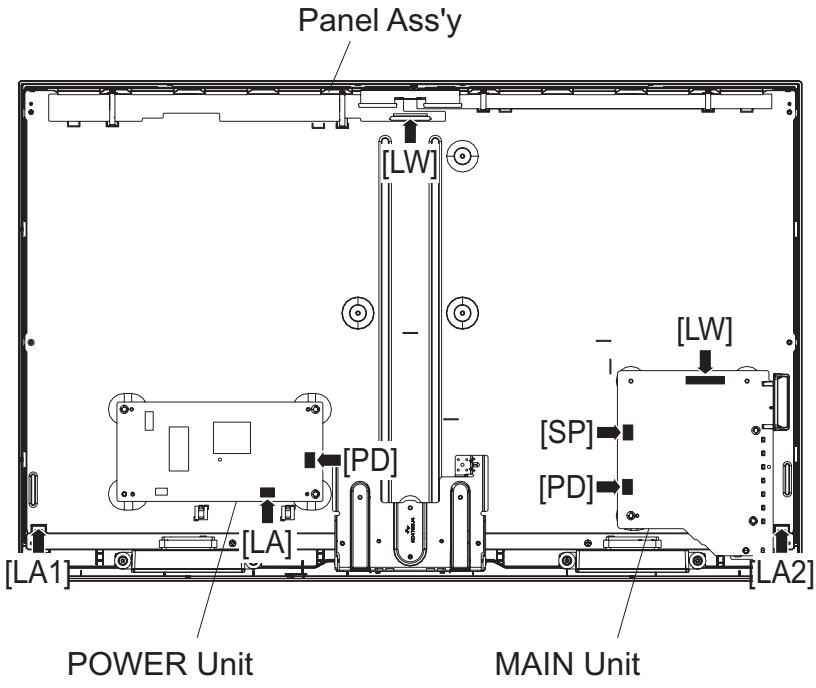
1. Removing of the Rear Cabinet Ass'y and Stand Base

1. Remove the 4 screws ① and detach the Stand Base ② .
2. Remove the 1 screw ③ , 3 screws ④ and 8 screws ⑤ .
3. Detach the Rear Cabinet Ass'y ⑥ .



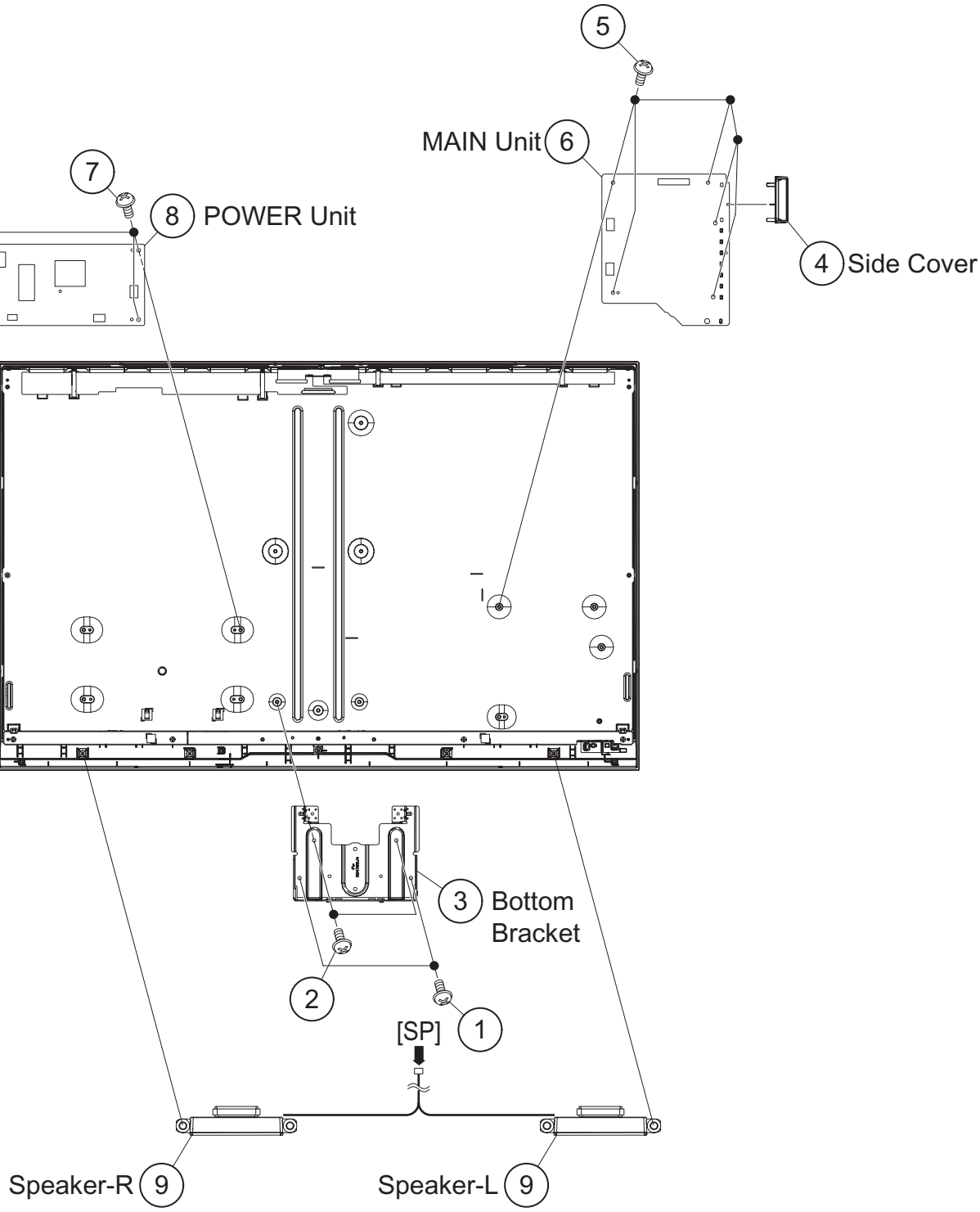
2. Removing of Connectors

1. Disconnect the following connectors from MAIN Unit. (SP, PD, LW)
2. Disconnect the following connectors from POWER Unit. (PD, LA)
3. Disconnect the following connectors from Panel Ass'y. (LW, LA1, LA2)



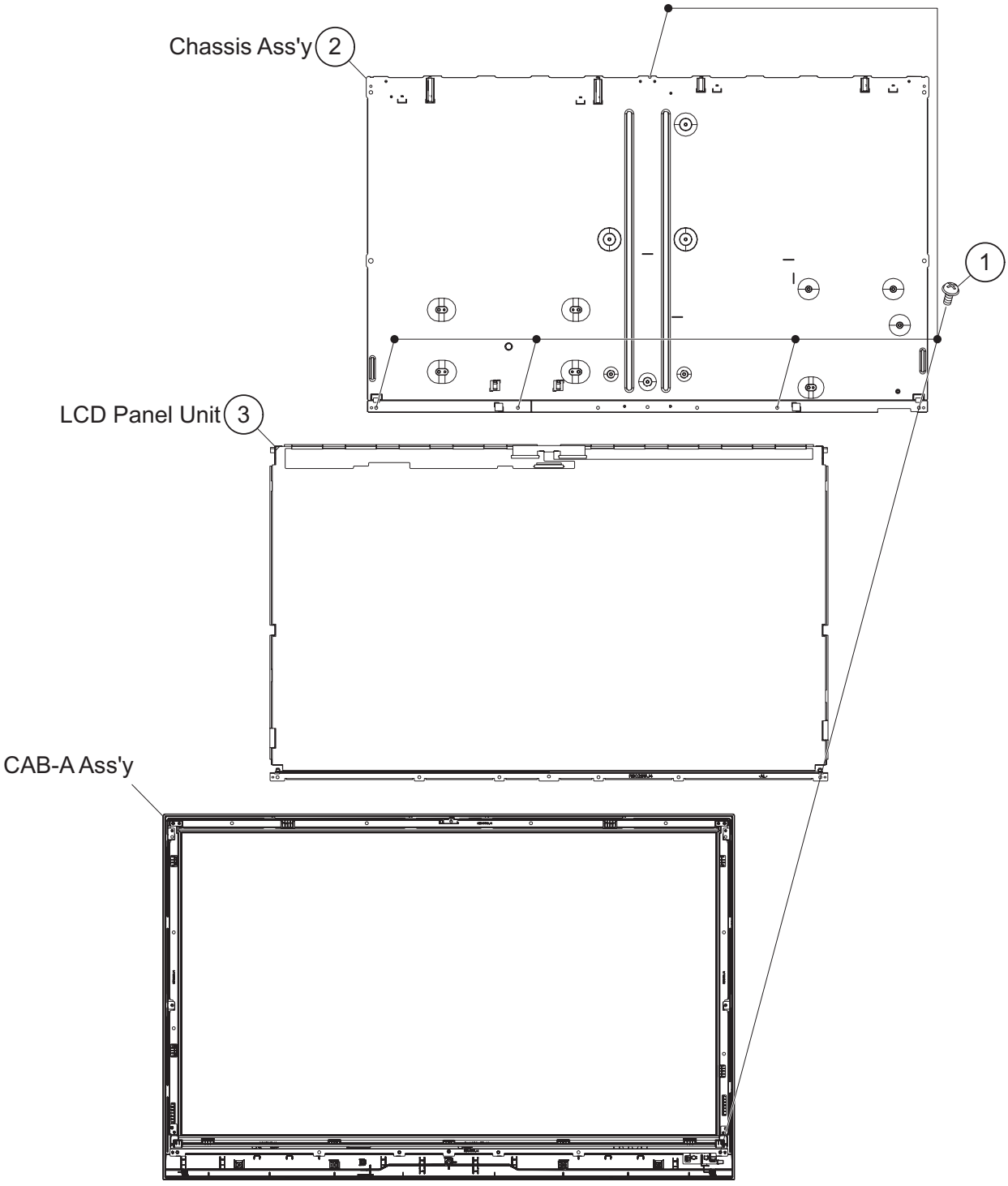
3. Removing of the Bottom Bracket, MAIN Unit, POWER Unit and Speaker-L/R

1. Remove the 1 screw ① , 2 screws ② and detach the Bottom Bracket ③ .
2. Remove the 5 screws ⑤ and detach the MAIN Unit ⑥ , Side Cover ④ .
3. Remove the 3 screws ⑦ and detach the POWER Unit ⑧ .
4. Detach the Speaker-L/R ⑨ .



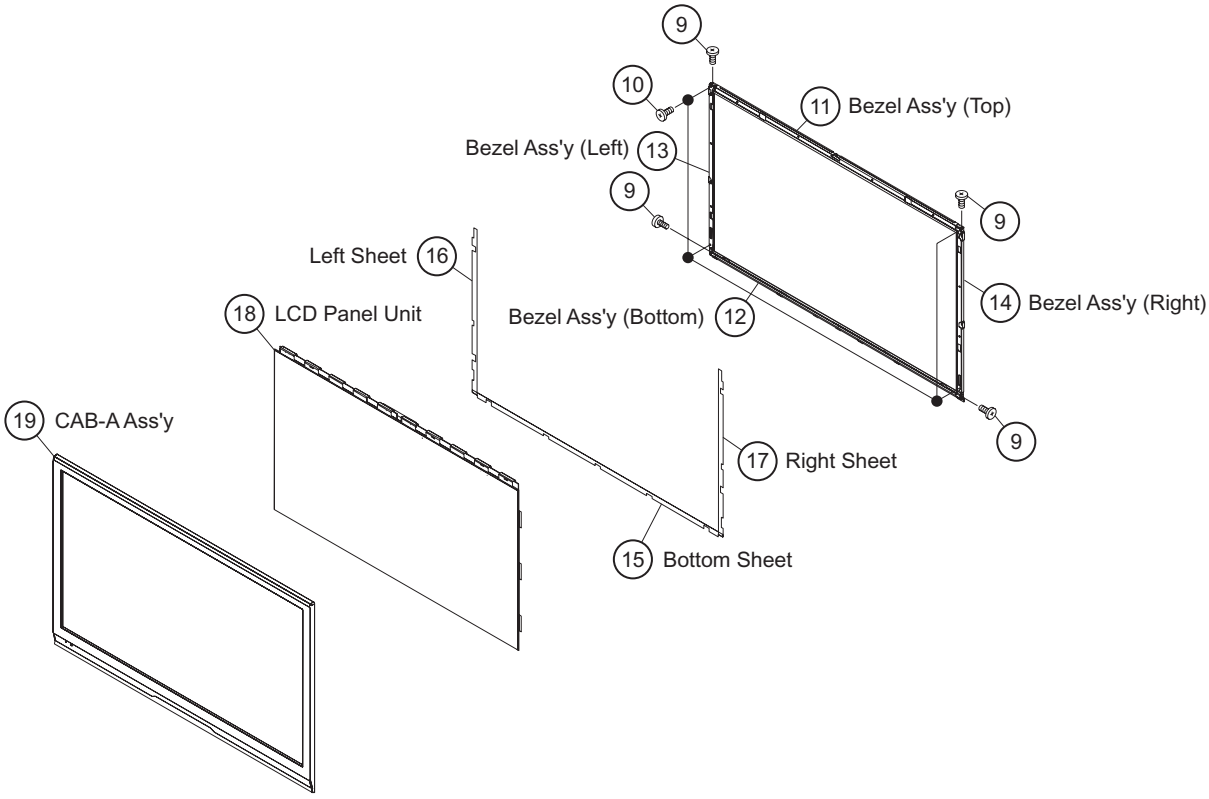
4. Removing of the Chassis Ass'y and LCD Panel Unit

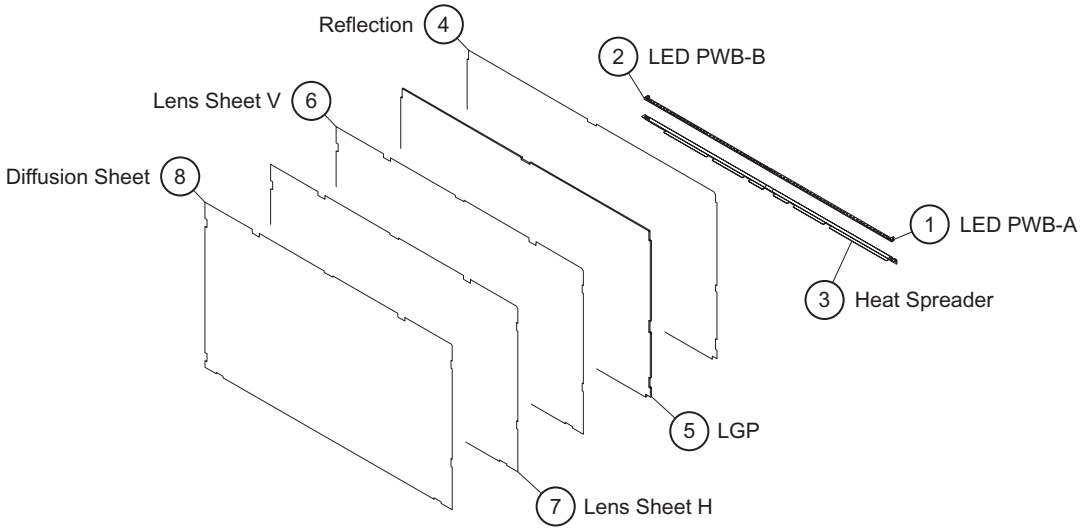
1. Remove the 5 screws ① and detach the Chassis Ass'y ② .
2. Detach the LCD Panel Unit ③ .



5. Removing LCD Panel Unit

1. Detach the LED PWB-A ① , LED PWB-B ② and Heat Spreader ③ .
2. Detach the Reflection ④ , LGP ⑤ , Lens sheet V ⑥ , Lens sheet H ⑦ and Diffusion Sheet ⑧ .
3. Remove the 4 screws ⑨ , 4 screws ⑩ and detach the bezel Ass'y (Top) (Bottom) (Left) (Right) ⑪ , ⑫ , ⑬ , ⑭ .
4. Detach the bottom Sheet ⑮ , Left Sheet ⑯ and Right Sheet ⑰ .
5. Detach the LCD Panel Unit ⑱ from CAB-A ⑲ .





CHAPTER 4. ADJUSTMENT

[1] ADJUSTMENT PROCEDURE

1. Entering and cancel the adjustment process mode

1) While holding down the TV/VIDEO and Volume DOWN keys at the same time, plug in the AC cord to turn on the power. (“K” standing for inspection process mode is displayed on the upper left position of the screen.)
2) Press the Channel DOWN and Volume DOWN keys at the same time. (The adjustment process mode screen appears.)
3) To cancel it, turn off the power using the Power switch or remote control.

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

1. key operation

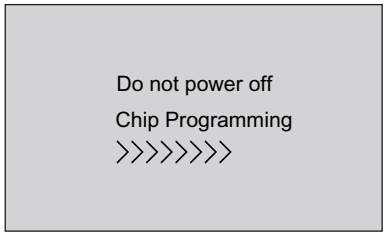
Remote controller key	Main unit key	Function
CH (∧ / ∨)	CH (∧ / ∨)	Changing channel (UP/DOWN)
VOL (+ / –)	VOL (+ / –)	Changing volume (UP/DOWN)
Cursor (▲ / ▼)	————	Turning a page (PREVIOUS/NEXT)
Cursor (◀ / ▶)	————	Changing a selected line setting (+10/-10)
TV/VIDEO button on remote controller	TV/VIDEO button	Input source switching (toggle switching) (TV-DAV-1/SAV-1 → AV-2 → COMPONENT → HDMI → PC)
ENTER	————	————

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

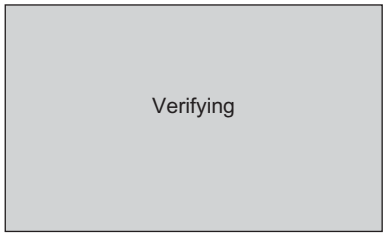
3. Software upgrading.

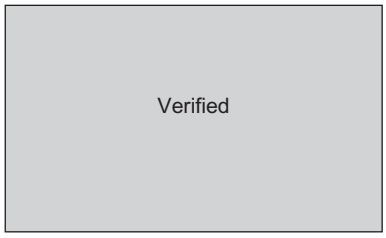
1) Plug off the LCD TV.
2) Insert the USB device to the USB terminal at the LCD TV.
   (Make sure that the latest software is installed in the USB device).
3) Hold the LCD TV power key and plug on the LCD TV.
4) LCD TV is on and detecting the USB device.

5) A few seconds later, the software upgrading will start automatically.

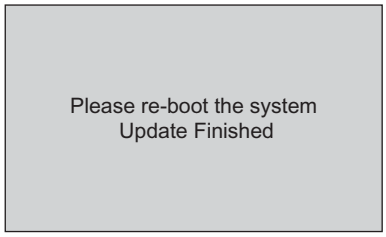


6) Let the process running & entering verification.





7) Software is successfully installed when the following appears at the end of the process.



8) Plug off the LCD TV and plug ON again as usual.

9) LCD TV is running with the latest software.

4. EDID DATA INPUT

4.1. HDMI EDID

	Adjustment item	Adjustment conditions	Adjustment procedure
1	EDID Input (HDMI)	Inspection mode Confirrm the file name/version.	1) EDID data is input to IC1501 (HDMI INPUT1). *1 2) EDID data is input before HDMI operation checking.(Without EDID data, HDMI will not function correctry)

4.2. ANALOG PC EDID

	Adjustment item	Adjustment conditions	Adjustment procedure
1	EDID Input (ANALOG PC)	Inspection mode Confirrm the file name/version.	1) EDID data is input to IC508 (PC INPUT) at checker line. *2 2) EDID data is input before Analog PC operation checking.

NOTE: *1 HDMI EDID file name : edid_32LE340_HDMI1_111019.bin

NOTE: *2 PC EDID file name : 32LE340 PC EDID111019.bin

Main Software Package

Model	Software Package
32LE340M	ORCD_MM_Asia_Pack03_vXXX.bin
32LE240M	ORCD_MM_Asia_Pack04_vXXX.bin

Main Software File name : XXX is Software version

If any changes of software, will be informed by MARUHEN.

5. Signal adjustment

5.1. Picture Adjustment

Confirmation of signal from generator (setting to spec level)

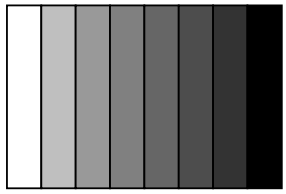
- PAL Composite signal : 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
- 15K Component signal (50Hz) : Y level: 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
  Pb, Pr level: 0.7Vp-p ± 0.02Vp-p
- 33K Component signal : Y level: 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
  Pb, Pr level: 0.7Vp-p ± 0.02Vp-Com

5.1.1 ADJUSTMENT MODE

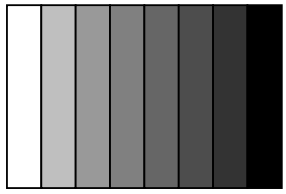
	Adjustment item	Adjustment conditions	Adjustment procedure
1	Adjustment mode		1) Press the test key at the test remote control.

*On double screen models, the tuner, composite signal and component signal sdjustment are made for their single screen mode and double screen mode as well.

5.1.2 Component 15K 50Hz signal adjustment (COMP-SD)

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Adjustment	[Signal] COMP 15K 50Hz (576i) 100% Full-field Colour Bar [Terminal] INPUT 3 COMPONENT	Feed the COMPONENT 15K 50Hz (576i) 100% Full-field Colour Bar signal (100% colour saturation) to INPUT 3 COMPONENT terminal.  ↑100% white ↑ Black
2	Auto adjustment performance	Process Mode page 4 (COMP SD)	1) At the related page, move cursor to [COMP SD ADJ], press ENTER. 2) [OK] appears when finished.

5.1.3 Component 33K 60Hz signal adjustment (COMP-HD)

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Adjustment	[Signal] COMP 33K 60Hz (1080i) 100% Full-field Colour Bar [Terminal] INPUT 3 COMPONENT	Feed the COMPONENT 33K 60Hz (1080i) 100% Full-field Colour Bar signal (100% colour saturation) to INPUT 3 COMPONENT terminal.  ↑100% white ↑ Black
2	Auto adjustment performance	Process Mode page 5 (COMP HD)	1) At the related page, move cursor to [COMP HD ADJ], press ENTER. 2) [OK] appears when finished.

5.1.4 PC (ANALOG RGB) signal adjustment (PC-RGB)

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Adjustment	[Signal] XGA 60Hz 100% Checkered Pattern [Terminal] PC INPUT 4	Feed the XGA 60Hz 100% Checkered pattern signal (100% colour saturation) to PC INPUT 4. *Please make sure SYNC is OFF. 
2	Auto adjustment performance	Process Mode page 6 (PC-RGB)	1) At the related page, move cursor to [RGB ADJ], press ENTER. 2) [OK] appears when finished.

5.2. White balance adjustment

<table>
<tr><th></th><th>Adjustment item</th><th>Adjustment conditions</th><th>Adjustment procedure</th></tr>
<tr><td>1</td><td>Adjustment</td><td>Brightness : MAX
AV Mode: DYNAMIC
Active Backlight : OFF
Set the luminance meter on the center of the screen</td><td>For the details of white balance adjustment procedure, please refer to white balance adjustment spec for Kameyama model.

1) Confirm the set condition.

2) Connect the white balance jig.

3) Through RS-232C command, adjustment mode screen is displayed.</td></tr>
<tr><td>2</td><td>Auto Adjustment performance</td><td>[command]
Adjustment Mode
KRSW0001
KKT10037

FACT0001
Setting
KYOF0001
OSDS0001
SBSL16_ _

Multi point adj. Mode
MSET0000
WBI20255

Point 2
WBI20229
MG2G****
MG2B****
MG2R****

Point 1
WBI10038
MG1G****
MG1B****
MG1R****

Write
MSET0003

Set Max.Level
MGMG****
MGMB****
MGMR****</td><td>[Adjustment Procedure]
1) Using the remote control, set the LCD TV to adjustment mode.

2) Measure Max brightness (Lmax).

3) Calculate min. brightness (Lmin)=Lmax/1000.

4) Measure Point 2 brightness (Lhigh).

5) Set the reference value R,G,B of Point 2 (R2)=3664 x (229/P2)
where P2=255 x [(Lhigh-Lmin)/(Lmax-Lmin)]1/2.2

6) Set the specified gradation for point 2, fix the most faint colour to get reference value, adjust others 2 colour to minus adjustment for reference value of point 2.

7) Measure Point 1 brightness (Llow).

8) Set the reference value R,G,B of Point 1 (Ref.1)=608 x (38/P1)
where P1=255 x [(Llow-Lmin)/(Lmax-Lmin)]1/2.2

9) Set the specified gradation for point 1. Set G of point 1 to the default value [(Ref.1 x G value of point 2/Ref.2), with fractions rounded] and adjust RB to the reference value of point 1.

10)Set the G of point Max. to the default value (4080 x G value of point 2/Ref.2). Set the R,B Max. value [Gmax-G value of point 2 + (R,B value of pint 2)].

11)Adjusted value is writing at [command] MSET0003.

12)Shut down the AC power.

*Initial value at RGB 2 point : 3664
*Initial value at RGB 1 point : 608

[Adjustment Value]
☆Teaching set send by engineering dept is set as reference.

[Reference value for adjustment reference]
Equipment: Luminance meter [Minolta CA-210]

<table>
<tr><th></th><th>Level</th><th>Spec Data</th><th>Adjustment Spec.</th><th>Inspection Spec.</th></tr>
<tr><td>Point 2 ref. values</td><td>229</td><td>x=0.281
y=0.288</td><td>±0.0010</td><td>±0.0020</td></tr>
<tr><td>Point 1 ref. values</td><td>38</td><td>x=0.272
y=0.277</td><td>±0.0045</td><td>±0.0090</td></tr>
</table>

Ref. : For inspection, set the LCD TV as below.

AV MODE: [DYNAMIC] (Reset)

Aging Time: Minimum 30 minutes</td></tr>
</table>

6. Factory setting

AC power is plug off after shipment setting is done.

CAUTION: Do not plug on again after shipment setting is done. If do, please re-do the shipment setting. Do not off with remote control.

Adjustment item	Adjustment condition	Adjustment procedure
Factory setting	AC power off to exit the factory setting.	1) Setting is done with test remote control. 2) Press the “Factory Setting” key on the remote control continuously. 3) When Green background appears on screen and “K” mark disappears, setting is completed.
		The followings are initialized to factory setting 1) User setting 2) Channel data (e. g. broadcast frequencies) 3) Manufacturer’s option settings 4) Password data 5) Setting values are set based on model destination

Model Name	Factory Setting Key Name	Remote Control Code	S-System Setting	OSD Language Setting
LC-32LE240M/340M (For Asia, Indonesia,, Vietnam, Thailand, Middle East)	M-Setting	100000001010110	B/G	ENGLISH
LC-32LE240M/340M (For Philippines)	P-Setting	100000001011110	M	ENGLISH

**Please do inspection for LC-32LE240M/340M (for Philippines) using NTSC signal.

[2] USB Clone (Smart Loader)

1. Description

The Smart Loader is a function implemented in the service software to easily replicate the user settings of one TV into another.

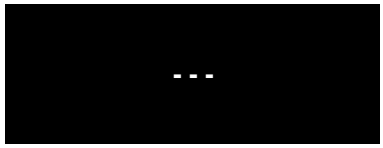
These settings include (but not restricted to): picture and audio, turning set-up, language and country selection, PIN, child locked programs etc.

Factory adjustments are not copied as they are different for every TV.

The Smart Loader makes possible the user data to be stored in a memory device connected to the USB terminal of the TV that is used as reference and later load those data into other TVs by using their respective USB terminal.

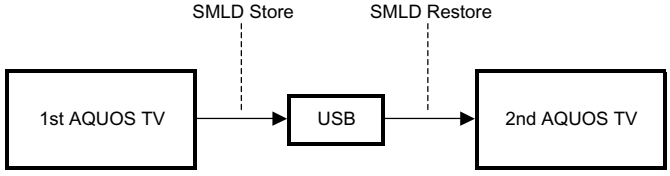
2. How it works

1. Enter USB clone menu (Smart Loader)
   i) Press panel key [TV/VIDEO] and [VOL+] and AC on, it will go to password entry OSD



   ii) Enter digit “369” then it will go to Smart Loader Menu

2. Smart Loader function



   i) SMLD Store
      - To copy all related data from TV -> USB and put under a fixed filename “SHP_SMLD.bin” (8kB).

   ii) SMLD Restore
      - To restore the related data from USB -> TV.

   iii) SMLD Store and Restore execution
      - To execute SMLD Store or SMLD Restore, highlight at selected item and press Enter.
      - When copying is in process, “WAIT” is displayed.
      - After cloning process is done, “OK” is displayed.
        If cloning process is not finished due to error (e.g. no pendrive detected), “NG” is displayed.

3. Exit USB Clone menu (Smart Loader)
   i) To exit Smart Loader menu, plug off AC Cord.

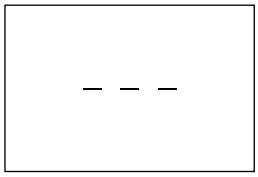
[3] PUBLIC MODE SETTING PROCEDURE

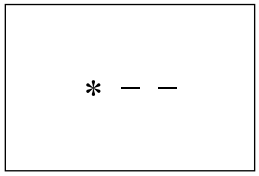
1. How to start Public Mode

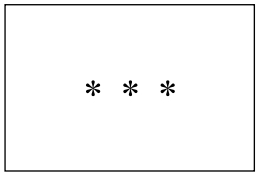
- There are the following two ways to get the public mode setup screen displayed.

①

1) Press the “INPUT” and “VOL (+)” keys on the set at once and turn on the power.
2) Get the password input screen displayed.







Procedure

- The input starts with the leftmost digit.
- Use the numeric keys [1] thru [9] and [10/0] keys on the remote controller.
  The other keys are not acceptable.
- With a numeric-key input, “–” will change to “✻“. The input position will move one digit to the right.
- With all the 3 digits entered, the password will be verified.

3) The 3-digit password is now verified.

   The password [0] [2] [7] provides for the public mode screen. (This screen comes on with whatever adjustment process settings.)

   With any other passwords, the screen changes to the normal mode.

②

In the adjustment process mode, turn on “PUBLIC MODE”. Also press the “CH (∧)” and “VOL (+)” keys on the set at once and turn on the power.

2. How to exit Public Mode

There are the following ways to quit the public mode setup screen.

- Turn off “PUBLIC MODE” in the adjustment process mode. (☆) ← This way alone is not for quitting the setup screen, but for quitting the mode by itself.
- Turn off the power with the “POWER” key. (★)
- Select “EXECUTE”.(★)

★ ••• “PUBLIC MODE” stays on in the adjustment process mode.

☆ ••• The settings will be back to the factory ones.

3. Public Mode Setting Values

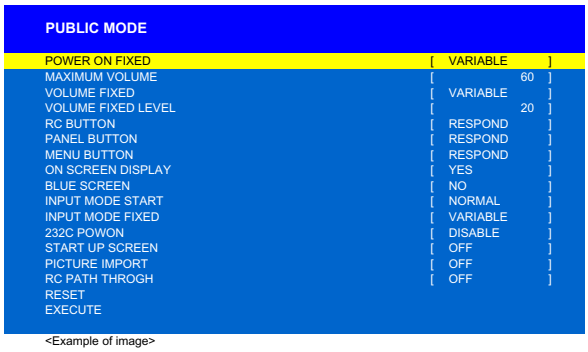
- With the factory settings made, the public mode settings get initialized. (The adjustment process remains intact.)

4. Public Mode Menu

The guidance is not displayed onscreen.

Setup procedure

- To move the cursor up and down, use the “cursor UP/DOWN” key (remote controller) and “CH ( )/( )” key (remote controller and set).
- To change the settings, use the “cursor RIGHT/LEFT” key (remote controller) and “VOL (+)/(–)” key (remote controller and set).
- To save new settings, keep the cursor at “Execute” and use the “cursor RIGHT/LEFT” key (remote controller) and “VOL (+)/(–)” key (remote controller and set).



<Example of image>

5. On Setting Items

1. POWER ON FIXED

Selection	Variable/Fixed
Default	Variable
Explanation	When set to “Fixed”, the power cannot be turned off with the power key on the remote control or main unit, and the image reception state is kept (it does not enter the standby state). The power can be turned off by shutting off power supply from AC.
Limit in setting	• Power key on the main unit/remote control power supply key • OFF timer/ON timer
Exception	None
Remarks	• Selection of “FIXED” assumes use of STB, etc. • When set to “Variable”, if the main power switch is set to off, the power is turned off after a wait of 1 second. (Push-push switch only) • Display ON/OFF in the hotel menu is controlled by the adjustment process “HOTEL POWERFIX”. • When the power button is operated, a caution is displayed (it times out in 5 seconds). (For the caution, refer to the power on fixed message sheet.) * The caution is not displayed when in the adjustment process, hotel menu, default setting, MCL operation and auto preset (Ch search operation). The OSD display including the menu and this caution have priority over all others. When “OSD display” (described below) is set to “Variable”, this caution is displayed as a special case.

2. MAXIMUM VOLUME

Selection	Adjustment from 1 to 60 (no loop)
Default	60
Explanation	Sound volume can not be adjusted higher than the preset value.
Limit in setting	• When the sound volume is set lower than 59, only figures are displayed and the sound volume bar is not displayed. • The maximum sound volume for ON-timer (Wake up timer) is limited also to the preset value.
Exception	• In the item “VOLUME” of adjustment process, the sound volume can be set freely irrespective of this setting.
Remarks	• Setting is valid only for the speakers of the unit. (As for the headphone, the sound volume can be set up to 60 irrespective of the limit.) • In line output (sound volume variable), the sound volume can be adjusted from -60 to 0 irrespective of pre-adjusted value. • When the sound volume is set higher than the MAX setting by the adjusting process or headphone, the sound volume control operation is prohibited for turn-up and the sound volume should be turned down to MAX in this state.

3. VOLUME FIXED

Selection	Selection between “Variable” and “Fixed” (loop provided)
Default	Variable
Explanation	Sound volume is fixed and made invariable.
Limit in setting	• The sound volume for the ON-timer (Wake up timer) is fixed also without display of menu. Besides, the setting is made impossible. (Basically, the menu is not displayed.) • The following keys become invalid: 1) Sound volume Up/Down (VOL +/-) [for both remote control and the unit] 2) Mute (MUTE)
Exception	• In the item “VOLUME” of adjustment process, the sound volume can be set freely irrespective of this setting.
Remarks	• In “Variable” setting, the sound volume had been conventionally set at 1 but this operation has been abolished (and follows the last memory). • The sound volume for the ON-time is not set at 1 either and the sound volume set value of the ON-timer before the hotel mode is executed. • Setting is valid only for the speakers of the unit. (As for the headphone, the sound volume can be set up to 60 irrespective of the limit.) • In line output (sound volume variable), the sound volume can be adjusted from -60 to 0 irrespective of pre-adjusted value. • As for sound volume fixing and sound volume MAX level, the sound volume fixing has priority. • Once the sound volume has been changed by adjustment process or headphone, it should be set back to the sound volume preset by sound volume fixing level when the adjustment process ends or when the headphone is removed.

4. VOLUME FIXED LEVEL

Selection	Adjustment from 1 to 60 (no loop)
Default	20
Explanation	The sound volume to be fixed by “Volume fixed” is determined.
Limit in setting	None
Exception	None
Remarks	Setting is valid only when “Volume fixed” is selected for “fixed”. This must be confirmed actually by changing also the sound volume in accordance with setting.

5. R/C BUTTON

Selection	Selection between “Respond”, “Limited” and “No respond” (loop provide)
Default	Respond
Explanation	Acceptability of keys by remote control is limited or reception of keys can be prohibited.
Limit in setting	1) In “limited” setting, only power ON/OFF, sound volume ▲ ▼, tuning ▲ ▼ and BACKLIGHT (brightness sensor) are accepted. 2) In “No respond” setting, all the keys (including the power key) are not accepted.
Exception	• Adjustment process, factory setting, inspection process and hotel only keys are valid irrespective of setting. • All the keys can be used in adjustment process, inspection mode and hotel menu irrespective of setting.
Remarks	

6. PANEL BUTTON

Selection	Selection between “Respond” and “No respond” (loop provide)
Default	Respond
Explanation	All the operations by keys (except the power key) of the unit can be invalidated.
Limit in setting	
Exception	• Inspection mode and hotel menu mode can be started irrespective of setting. • All the keys can be used in adjustment process, inspection mode and hotel menu irrespective of setting.
Remarks	

7. MENU BUTTON

Selection	Selection between “Respond” and “No respond” (loop provide)
Default	Respond
Explanation	In “No respond” setting, the menu operation by the menu key of the remote control and the menu key of the unit is invalidated.
Limit in setting	• ON-timer (Wakeup Timer) is turned OFF. • The following keys become invalid. Wake-up timer and clock setting keys and all of the direct change keys to menu display
Exception	• Inspection mode and hotel menu mode can be started irrespective of setting. • All the keys can be used in adjustment process, inspection mode and hotel menu irrespective of setting.
Remarks	

8. ON SCREEN DISPLAY

Selection	Selection between “Yes”, “No” (loop provide)
Default	Yes
Explanation	The following OSD displays are made ineffective. Displays of menu group, channel call, sound volume bar and direct key call
Limit in setting	• Set time of the OFF-timer (SLEEP TIMER) is cleared. • Setting of the no-signal power-OFF (AUTO POWER OFF) is cleared to “OFF”. • Setting of the no-operation power-OFF is cleared to “OFF”. • Keys falling under any of the following items become invalid. 1) Appearance of screen changes and the sound changes. 2) Personal functions which are hard to restore. Ex.) Screen display, menu, OFF-timer, ON-timer, AV MODE, screen size switching, clock setting, treble emphasis, AUDIO ONLY, sound changeover, LANGUAGE, CLOSED CAPTION
Others	• Simple input switching is generated. Those which are restored soon after leaving as they are and may be requested for change by customer are not prohibited. Ex.) Brightness sensor (BACKLIGHT) and PIC. FLIP
Exception	• Such a caution which is displayed independently is displayed as it is. Non-responding signal caution, TELE TEXT caution and power-ON fixing caution

9. BLUE SCREEN

Selection	Selection between “Yes”, “No”
Default	No
Explanation	When no signal inputs, selecting the background color. Selected to “Yes”---Blue screen Selected to “No”---No Blue screen

10.INPUT MODE START

Selection	Selection between “Normal”, “TV (CH~)” “INPUT1~8” (loop provide)
Default	Normal
Explanation	In power-ON, the input source to be started or channel can be set. (In standard mode, the operation follows the last memory.)
About options	• All the input sources in the model are made selectable. • When the input/output switchable input source is selected and the input source is set to output, the setting of input/output switching is changed to input at the execution of hotel menu. In addition, the input/output switching by menu is prohibited. • In TV mode, the display of all channels is stopped and it is treated as an input source. At this time, the channel to be set follows the last memory and the content of the last memory is included in the notation by options. Ex.) TV (CH2), TV (CH4) etc. • The order of appearance of options in the hotel menu should agree with the order of toggles by input switching key.
Limit in setting	• The display of channel setting menu and the channel setting operation are prohibited (except for MCL).
Exception	None
Remarks	• In setting at “Normal”, the setting of “Input mode fixed” is changed to “Variable” and selection should be prohibited.

11. INPUT MODE FIXED

Selection	Selection between “Variable” and “Fixed” (loop provide)
Default	– (Variable)
Explanation	The input mode is fixed at the input source or the channel set at the “Input mode start” in 9 and other input sources and channels can be made non-selectable.
Limit in setting	• With the execution of hotel mode, the input source is forced to change to that set by “Input mode start” and the channel switching and input switching are prohibited thereafter. • The following keys are invalidated. CH ▲ ▼, direct tuning button, FLASHBACK, input *However, the keys (input switching and CH ▲ ▼, keys) of the unit for menu operation remain valid.
Exception	None
Remarks	• In the following case, setting is cancelled and mode is changed to “Variable”. ① When the setting of “Input mode start” is set to “Standard (Normal)”

12.232C POWON

Selection	“Enable” and “Disable”
Default	Disable
Explanation	When in the standby state, power ON by the RS-232C command is enabled or disabled.
Limit in setting	None
Exception	None
Remarks	RS-232C power ON command “POWR1_ _ _ ⏎”

13.RC PATH THROUGH

Selection	“Off”, “On: TV RCE”, “On: TV RCD”
Default	Off
Explanation	Remote control signal output from the pin 9 of the RS-232C terminal and signal reception is enabled or disabled. When set to “ON: TV RCE”, TV also receives signals. With “ON: TV RCD”, the remote control signal is output from the pin 9, but TV does not respond to the remote control.
Limit in setting	When set to “ON: TV RCD”, TV does not accept the remote control.
Exception	None
Remarks	

CHAPTER 5. TROUBLESHOOTING TABLE

[1] TROUBLESHOOTING TABLE

No power (front LED failure to light up) or no startup (front LED failure to turn from red to green)

↓

Are the wire harnesses and other cables properly connected in the set?	NO →	Reconnect the wire harnesses and other cables properly in the set.
↓ YES		
Is there the AC_CTRL and PNL_POWER signal input at pins (126) and (127) of IC3301?	NO →	Check the AC_CTRL signal line PNL_POWER signal line.
↓ YES		
Are the DC/DC converter outputs and the output voltages along the control lines as specified?	NO →	Check the DC/DC converters and the control lines. Replace defective parts as required.
1) M+5.6V (IC9603) 2) D+1.26V (IC9605) 3) D+5V (IC9610) 4) T+5V (IC9612) 5) D+3.3V (IC9608) 6) D+1.8V (IC9609) 7) D+2.5V (IC9611)		

With [RF] signal input **No video onscreen (1)**

↓

No video in the UHF/VHF reception

↓

Is there IF output from the tuner pin(10) of TU1101 as specified? NO → Check TU1101 and its peripheral circuits.

↓ YES

Is there VIF input at pin 74 & 75 of IC3301? NO → Check the circuit between TU1101 & IC3301.

↓ YES

Are there the signal outputs (pin 100-107, 109,110) of IC3301? NO → Check IC3301 and its peripheral circuit.

↓ YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

With <Video> signal input **No video onscreen (2)**

↓

No external input video onscreen <INPUT 2>

↓

Is INPUT 2 selected on the input select menu screen? NO → Select INPUT 2 on the input select menu screen to pick up the right input signal.

↓ YES

Is there the video signal input at pin (43) of IC3301? NO → Check the line between pin (9) of J502 and pin (43) of IC3301.

↓ YES

Are there the signal outputs (pin 100-107, 109,110) of IC3301? NO → Check IC3301 and its peripheral circuits.

↓ YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

With <Component> signal input **No video onscreen (3)**

↓

No external input video onscreen <INPUT 3>

↓

Is INPUT 3 selected on the input select menu screen?

NO → Select INPUT 3 on the input select menu screen to pick up the right input signal.

↓ YES

Are there the Y, Pb and Pr signal inputs at pins (34), (36) and (38) of IC3301 respectively?

NO → Check the line between pins (19)/(17)/(15) of J502 and pins (34)/(36)/(38) of IC3301.

↓ YES

Are there the signal outputs (pin 100-107, 109,110) of IC3301?

NO → Check IC3301 and its peripheral circuits.

↓ YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

With <HDMI> signal input **No video onscreen (4)**

↓

No external input video onscreen <INPUT 1>.

↓

Is INPUT 1 selected on the menu screen?

NO → Select INPUT 1 on the input select menu screen to pick up the right signal input.

↓ YES

Are there signal outputs from SC1501 to IC3301?

NO → Check peripheral circuits between SC1501 and IC3301.

↓ YES

Are there the signal outputs (pin 100-107, 109,110) of IC3301?

NO → Check IC3301 and its peripheral circuits.

↓ YES

Check LVDS cable, LCD controller (incl. panel) and their peripheral circuits.

No audio heard (1)

No sound in the UHF/VHF reception.

Is the IF output from the tuner pin (10) of TU1101 as specified?

NO → Check TU1101 and its peripheral circuits.

YES

Is there the SIF signal input at pins (77), (78) of IC3301?

NO → Check IC3301 and its peripheral circuits.

YES

Is there audio signal intput at pin(6) of IC1701?

NO → Check connection between IC3301 and IC1701 and its peripheral circuits.

YES

Is the L-ch audio signal output at pin((28), (30) of IC1701 normal?
Is the R-ch audio signal output at pin(12), (14) of IC1701 normal?

NO → Check IC1701 and its peripheral circuits.

YES

Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1701 normal?

NO → Check circuit between IC1701 & P1701.

YES

Check speakers and their peripheral circuits.

No audio heard (2)

No external audio heard

<INPUT 2>

Is there the L-ch audio signal input from pin (7) of input terminal J502 to pin (47) of IC3301?
Is there the R-ch audio signal input from pin (5) of input terminal J502 to pin (48) of IC3301?

<INPUT 3>

Is there the L-ch audio signal input from pin (13) of input terminal J502 to pin (49) of IC3301?
Is there the R-ch audio signal input from pin (11) of input terminal J502 to pin (50) of IC3301?

YES

Is there the I2S signal output at pin (80), (81) of IC3301?

NO → Check IC3301 and its peripheral circuits.

YES

Is there audio signal input at pin(6) of IC1701?

NO → Check connection between IC3301 and IC1701 and its peripheral circuits.

YES

Is the L-ch audio signal output at pin(28), (30) of IC1701 normal?
Is the R-ch audio signal output at pin(12), (14) of IC1701 normal?

NO → Check IC1701 and its peripheral circuits.

YES

Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1701 normal?

NO → Check circuit between IC1701 & P1701.

YES

Check speakers and their peripheral circuits.

No audio heard (3)

No HDMI sound heard. <INPUT 1>
(*INPUT 1 is digital audio.)

Does the HDMI image appear onscreen?
NO → Refer to “<INPUT 1> in No external input video onscreen (HDMI)”.

YES

No audio output from <INPUT 1>
NO → Check it if EDID is written or not.

YES

Are waveforms input in to the pin(3)-(6), (8), (9), (11), (12) of IC3301 normally?
NO → Check peripheral circuits IC3301.

YES

Is there audio signal input at pin(6) of IC1701?
NO → Check connection between IC3301 and IC1701 and its peripheral circuits.

YES

Is the L-ch audio signal output at pin(28), (30) of IC1701 normal?
Is the R-ch audio signal output at pin(12), (14) of IC1701 normal?
NO → Check IC1701 and its peripheral circuits.

YES

Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1701 normal?
NO → Check circuit between IC1701 & P1701.

YES

Check speakers and their peripheral circuits.

No audio heard (4)

No sound from the HDMI sound input terminal.
(INPUT 1 analog audio)

↓ YES

Is there the L-ch audio signal input from pin (2) of external input terminal J506 (HDMI AUDIO IN) to pin (55) of IC3301?
Is there the R-ch audio signal input from pin (3) of external input terminal J506 (HDMI AUDIO IN) to pin (56) of IC3301?

↓ YES

Are I2S signal output from the pins (80), (81) of IC3301 normally? — NO → Check peripheral circuits of IC3301.

↓ YES

Is there audio signal input at pin(6) of IC1701? — NO → Check connection between IC3301 and IC1701 and its peripheral circuits.

↓ YES

Is the L-ch audio signal output at pin(28), (30) of IC1701 normal?
Is the R-ch audio signal output at pin(12), (14) of IC1701 normal? — NO → Check IC1701 and its peripheral circuits.

↓ YES

Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1701 normal? — NO → Check circuit between IC1701 & P1701.

↓ YES

Check speakers and their peripheral circuits.

No audio heard (5)

No PC audio output

↓ YES

Pin (2) of J506: Is L-ch input into the pin (55) of IC3301?
Pin (3) of J506: Is R-ch input into the pin (56) of IC3301?

↓ YES

Are I2S signal output from the pins (80), (81) of IC3301 normally? — NO → Check peripheral circuits of IC3301.

↓ YES

Is there audio signal input at pin(6) of IC1701? — NO → Check connection between IC3301 and IC1701 and its peripheral circuits.

↓ YES

Is the L-ch audio signal output at pin(28), (30) of IC1701 normal?
Is the R-ch audio signal output at pin(12), (14) of IC1701 normal? — NO → Check IC1701 and its peripheral circuits.

↓ YES

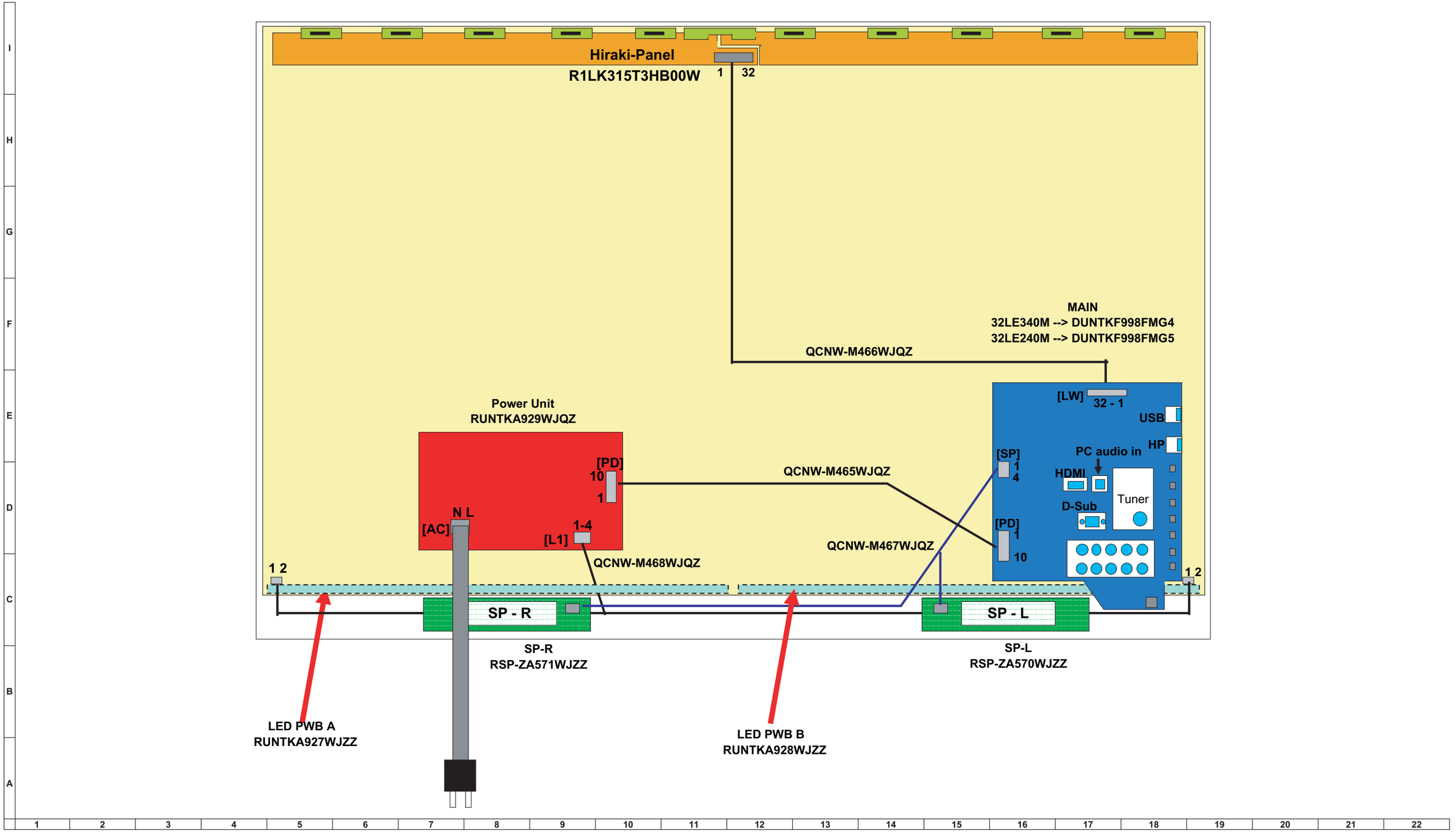
Are the audio signal L-ch and R-ch output at (3)/(4) and (1)/(2) of P1701 normal? — NO → Check circuit between IC1701 & P1701.

↓ YES

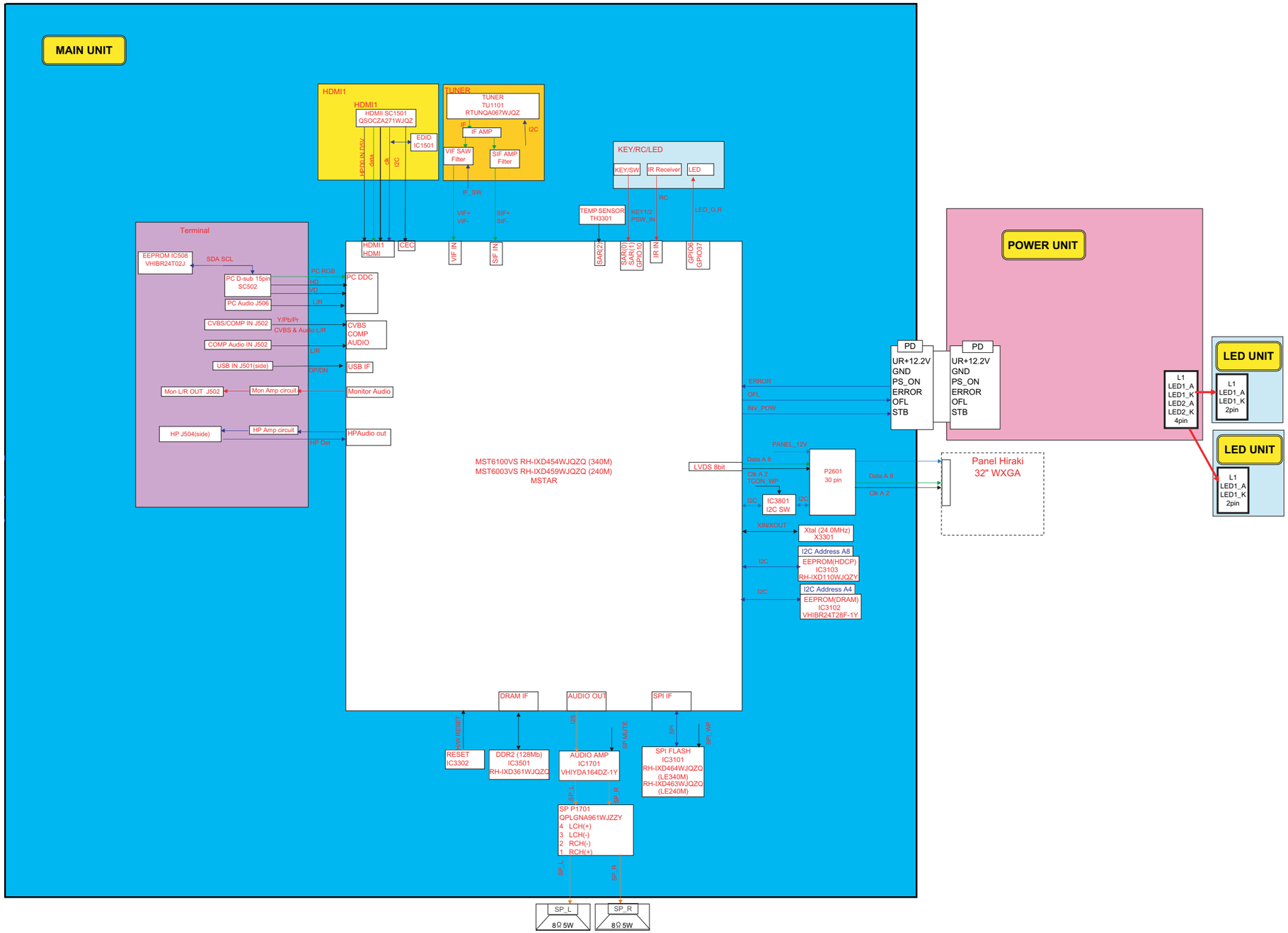
Check speakers and their peripheral circuits.

CHAPTER 6. OVERALL WIRING/BLOCK DIAGRAM

[1] OVERALL WIRING DIAGRAM



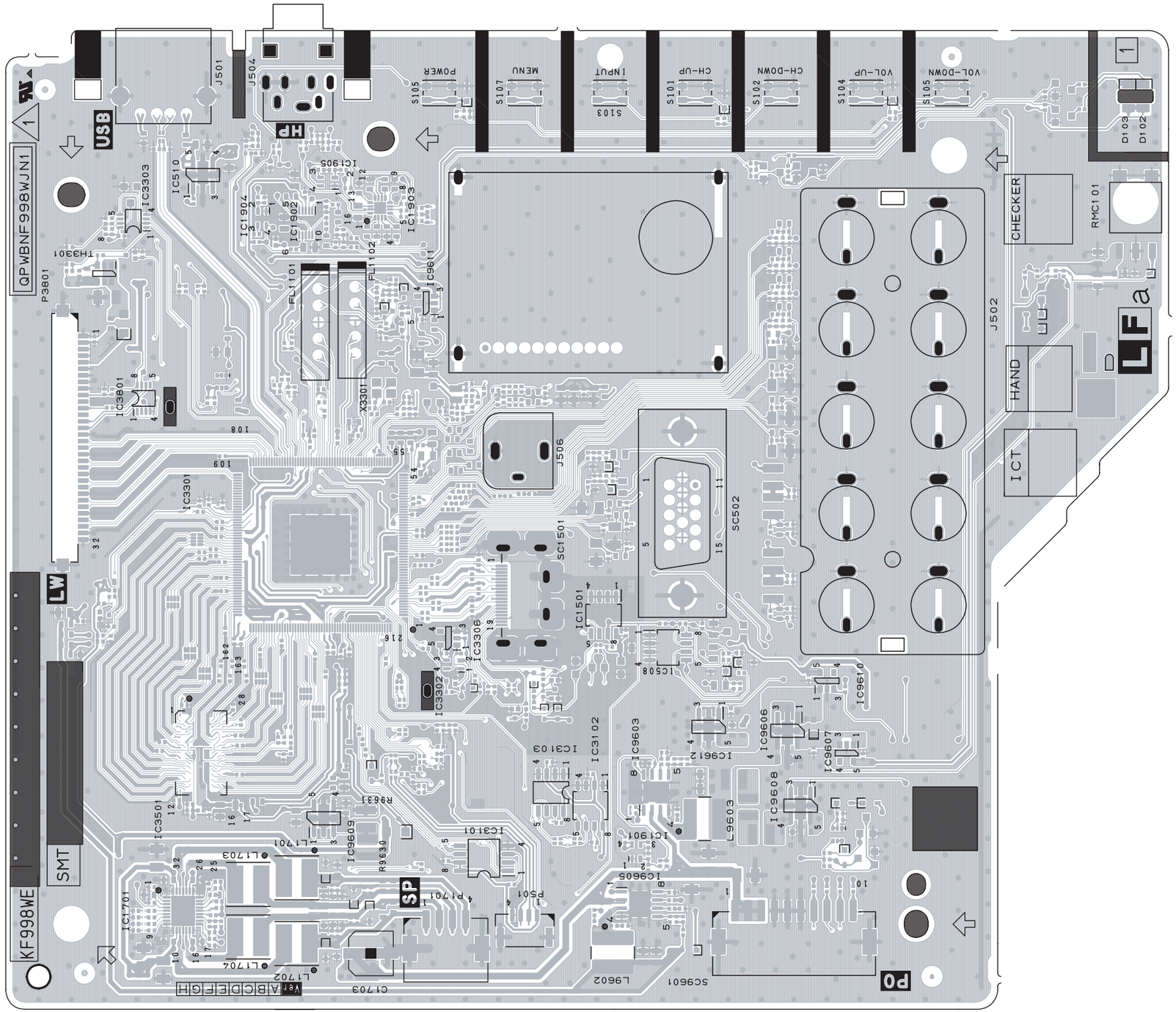
[2] SYSTEM BLOCK DIAGRAM



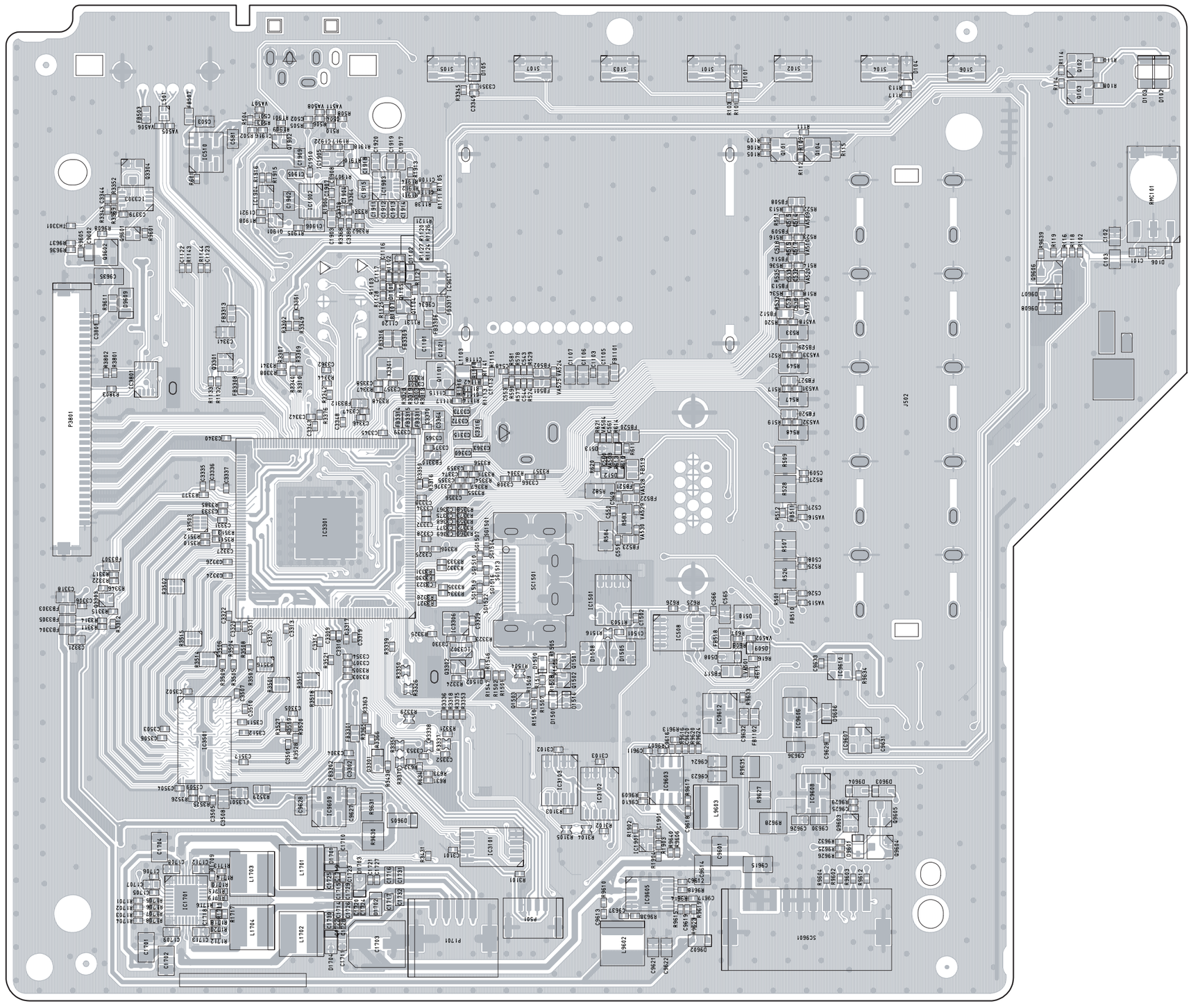
CHAPTER 7. PRINTED WIRING BOARD ASSEMBLIES

[1] MAIN Unit

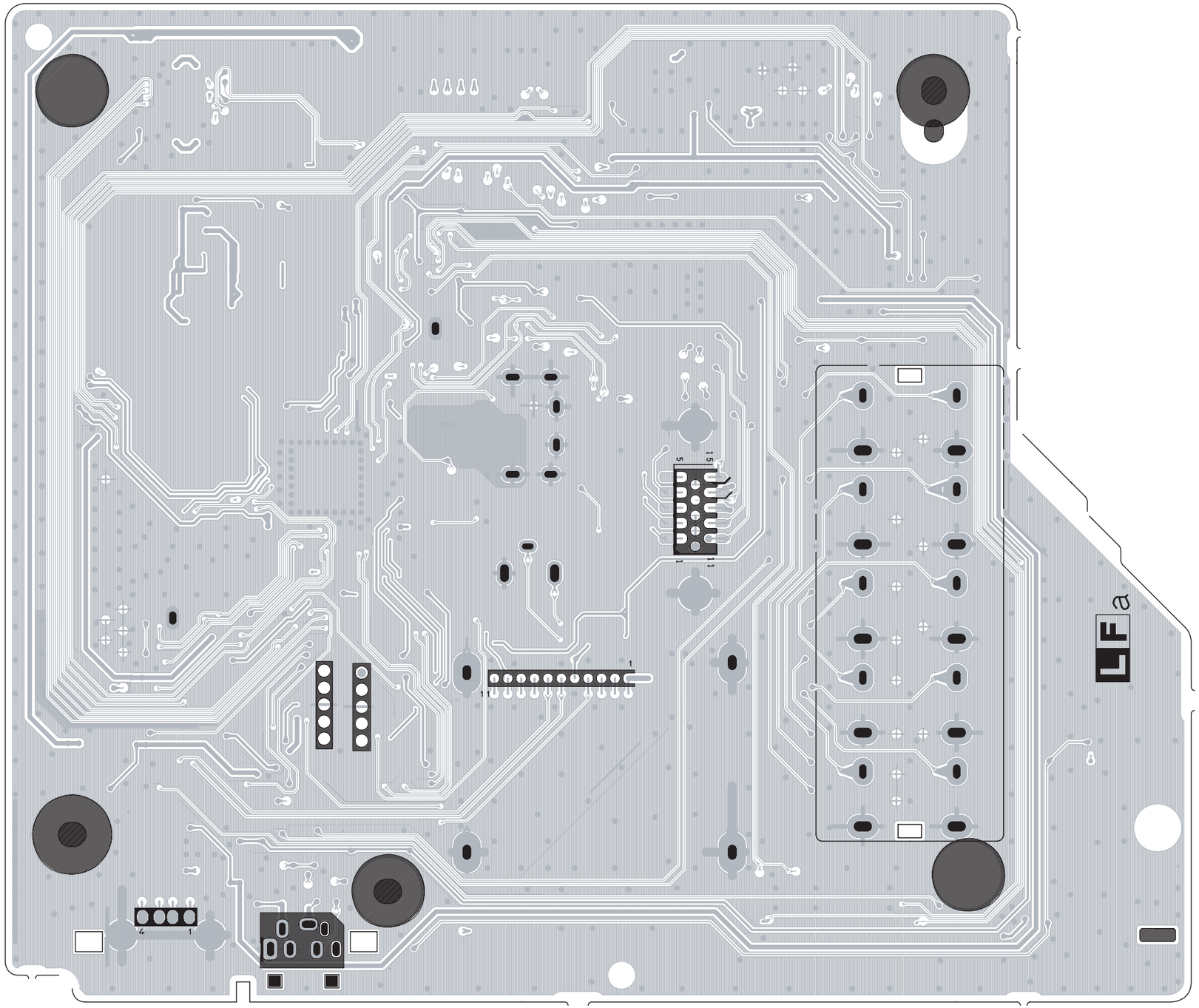
MAIN Unit
(Side-A)



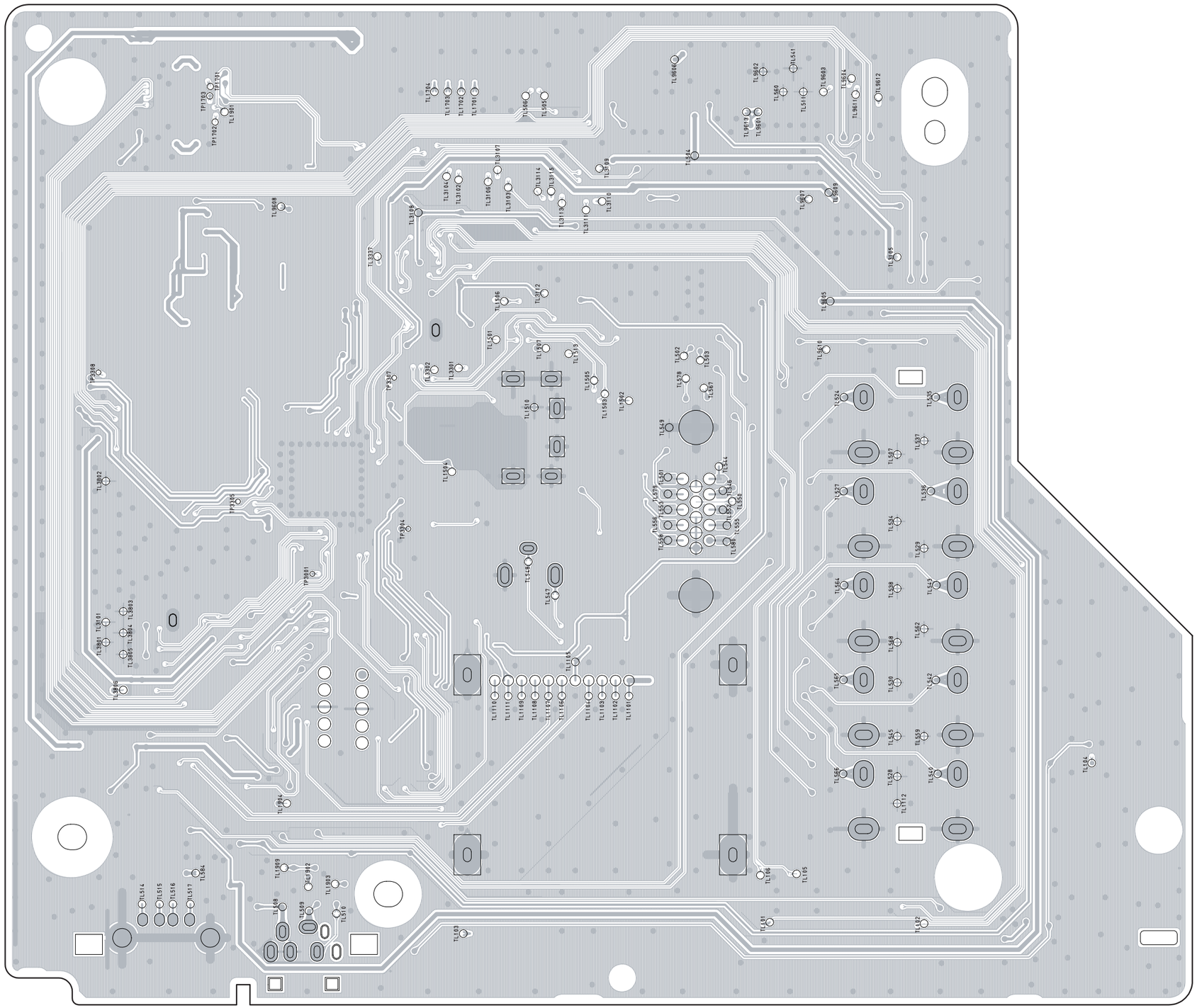
MAIN Unit
(Side-A Chip)



MAIN Unit
(Side-B)



MAIN Unit
(Side-B Chip)



CHAPTER 8. SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

1. VOLTAGE MEASUREMENT CONDITION:

1) The voltages at test points are measured on exclusive AC adaptor and 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.

2. 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.

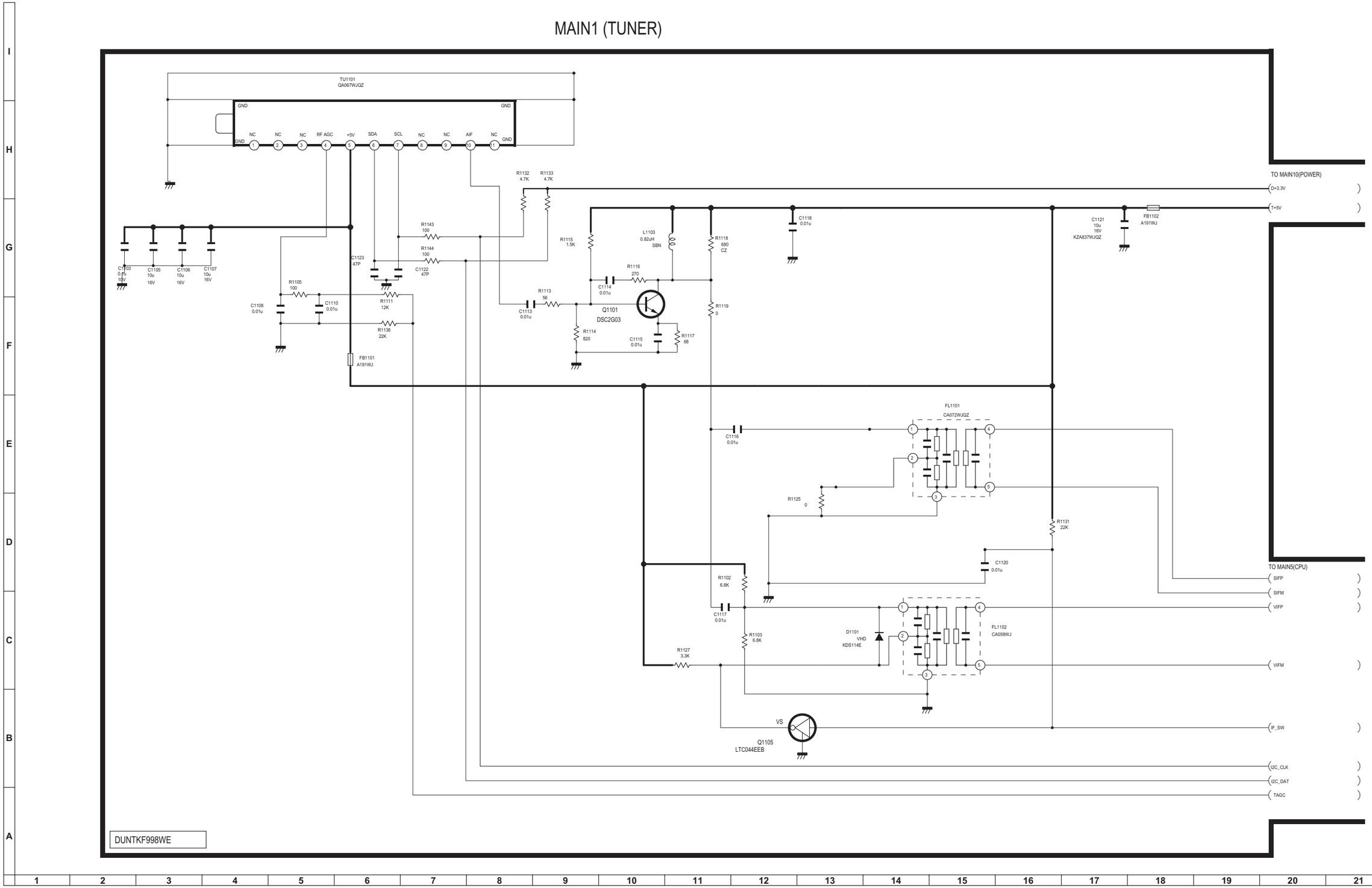
CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

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 " ⚠ " ([redacted]) 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

- MAIN Unit-1/11



- MAIN Unit-2/11

MAIN2 (HDMI-TERM)

TOP
INPUT1

SC1501
ZA271WJQZ

R1505
1K

D1510
DB2S310L

D1516
DB2S310L

R1511
47K CZ

Q1501
LTC044EEB

Q1502
LTC044EEB

Q1503
LTC044EEB

R1510
10K
CZ

R1516
47K

R1504
10

R1503
47K
CZ

C1501
10u
16V
KZA837WJQZ

C1502
0.01u
25V
CZB

IC1501
BR24T02J
EEPROM
VCC VCLK SCL SDA
A0 A1 A2 GND

D+5V
BU+3.3V

TO MAIN10(POWER)
D+5V
BU+3.3V

TO MAIN5(CPU)
HPD_+5V_IN
HPD_CTRL
WP_CTRL
HDMI_DAT
HDMI_CLK

HDMI0_CLKN
HDMI0_CLKP
HDMI0_D0N
HDMI0_D0P
HDMI0_D1N
HDMI0_D1P
HDMI0_D2N
HDMI0_D2P

R1547
200

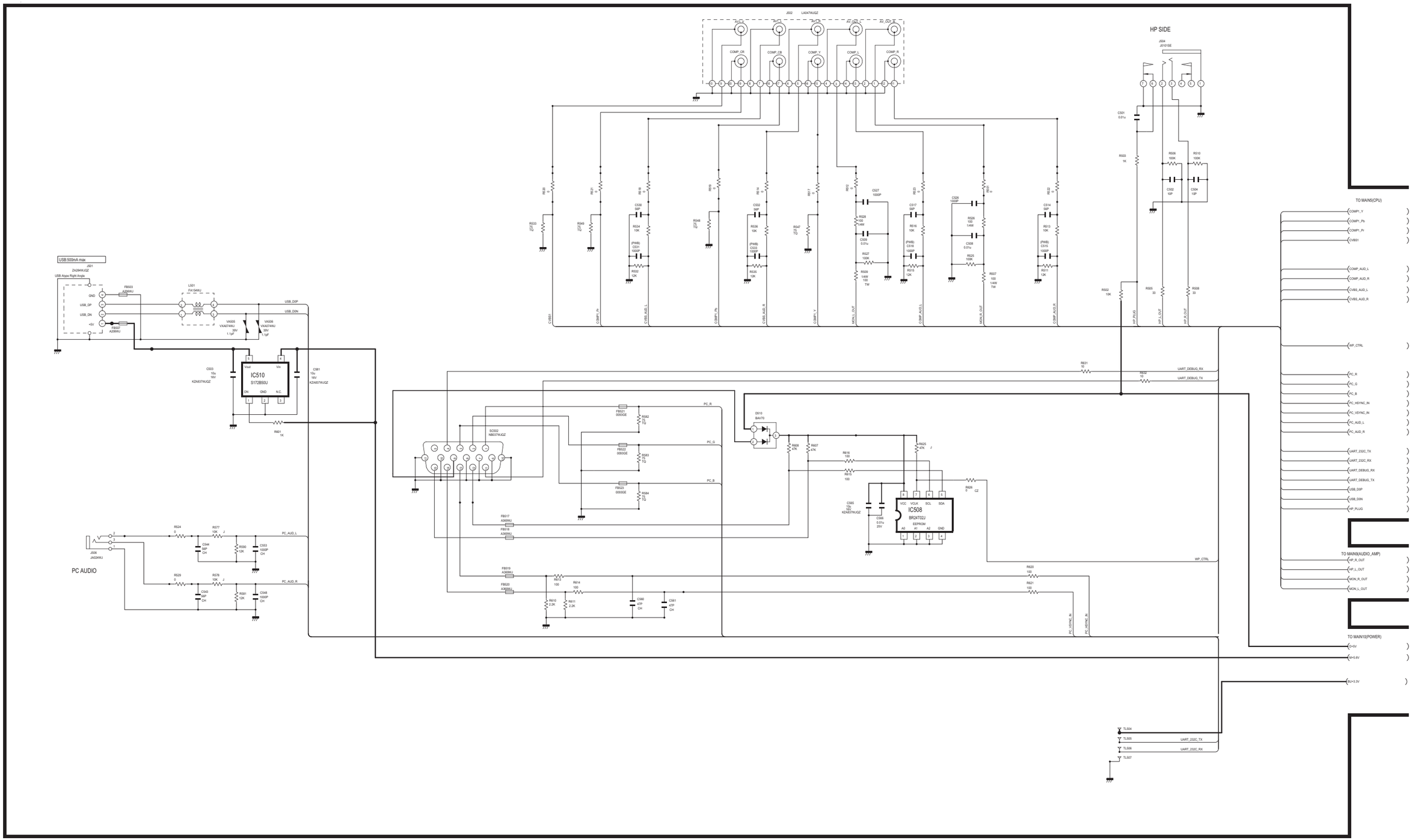
HDMI_CEC
HDMI_ARC

DUNTKF998WE

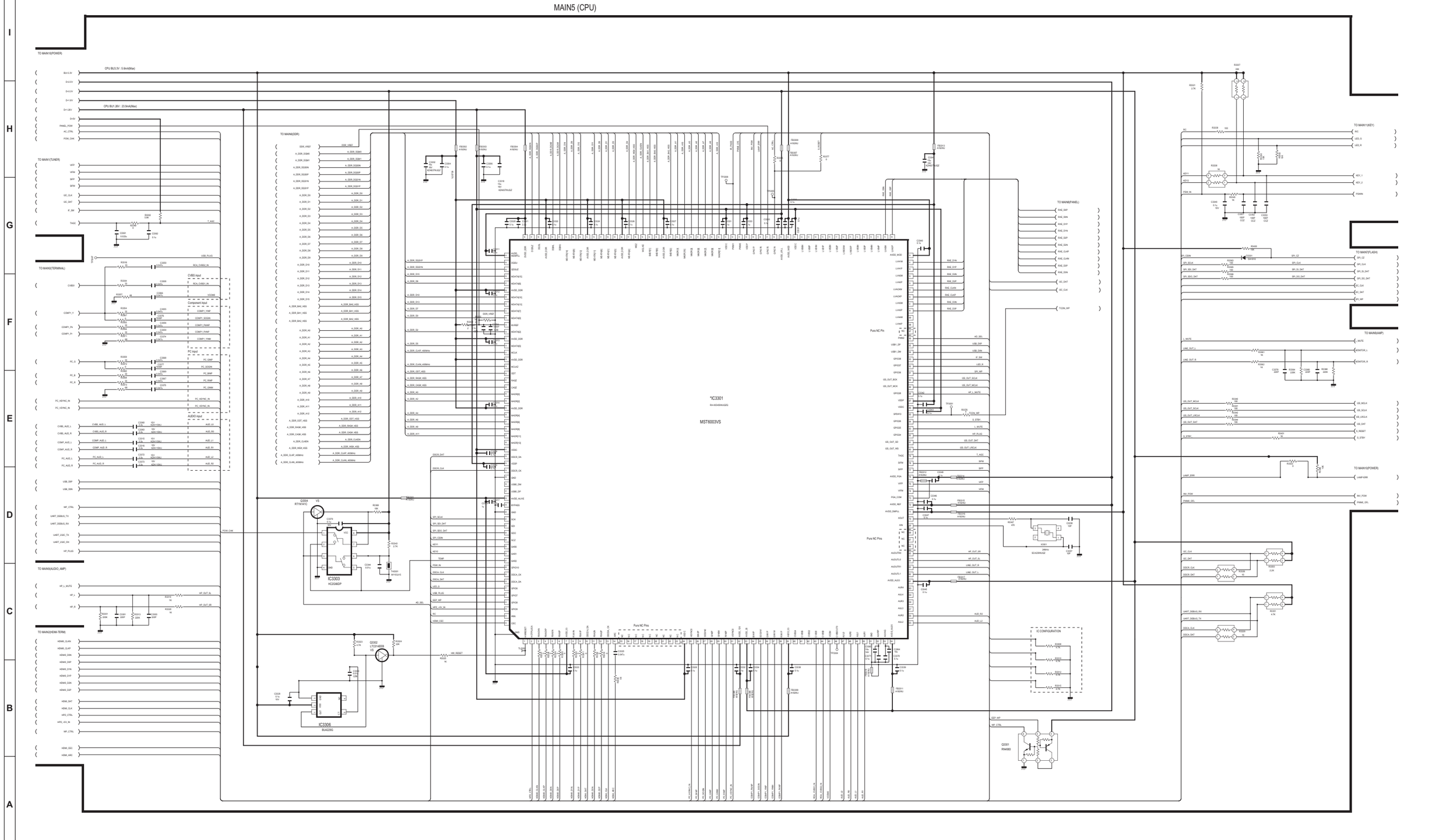
- MAIN Unit-3/11

(*On this model, the Main Circuit Basic Diagram 4/11 is not applied.)

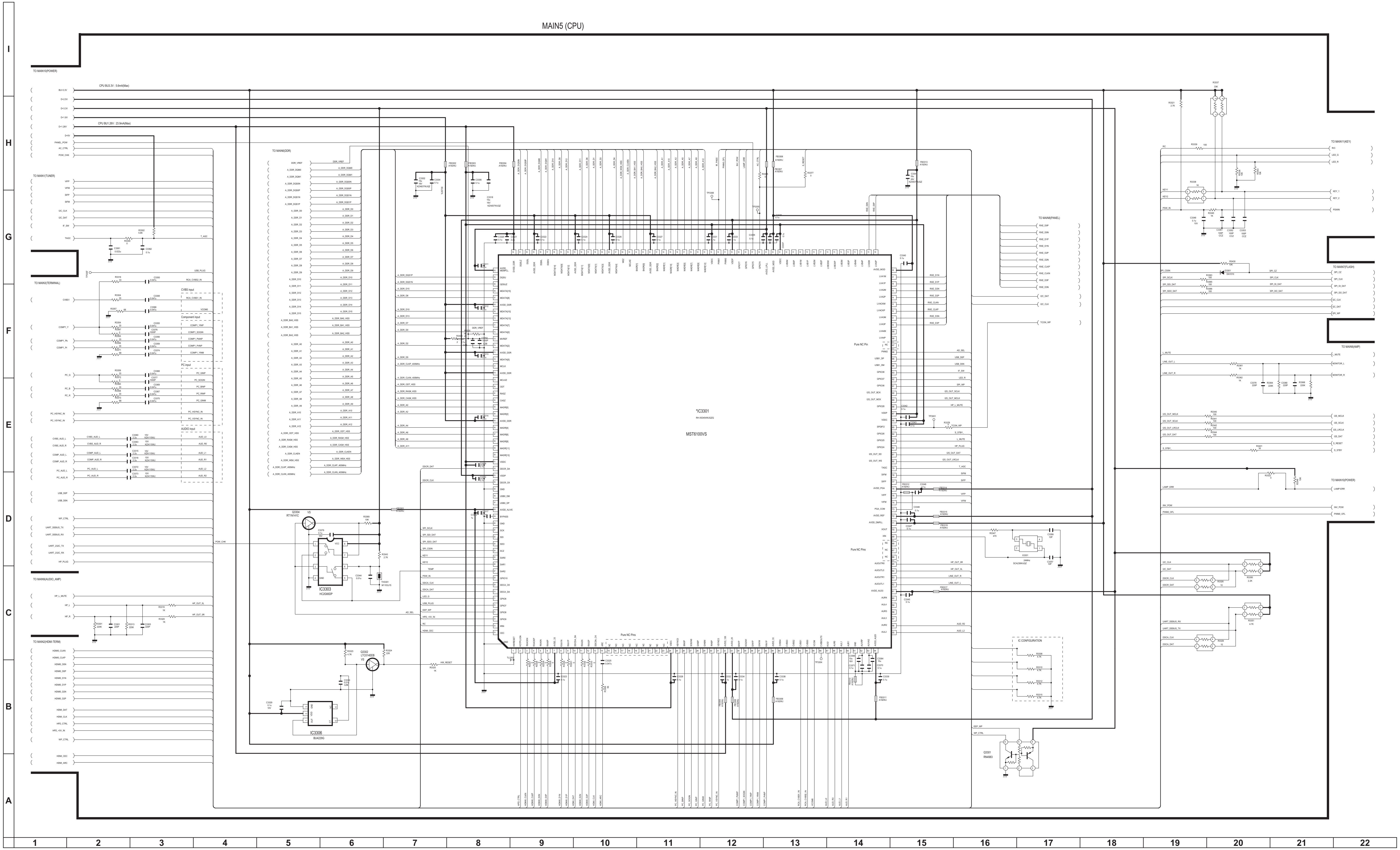
MAIN3(TERMINAL)



- MAIN Unit-5/11 (LC-32LE240M)

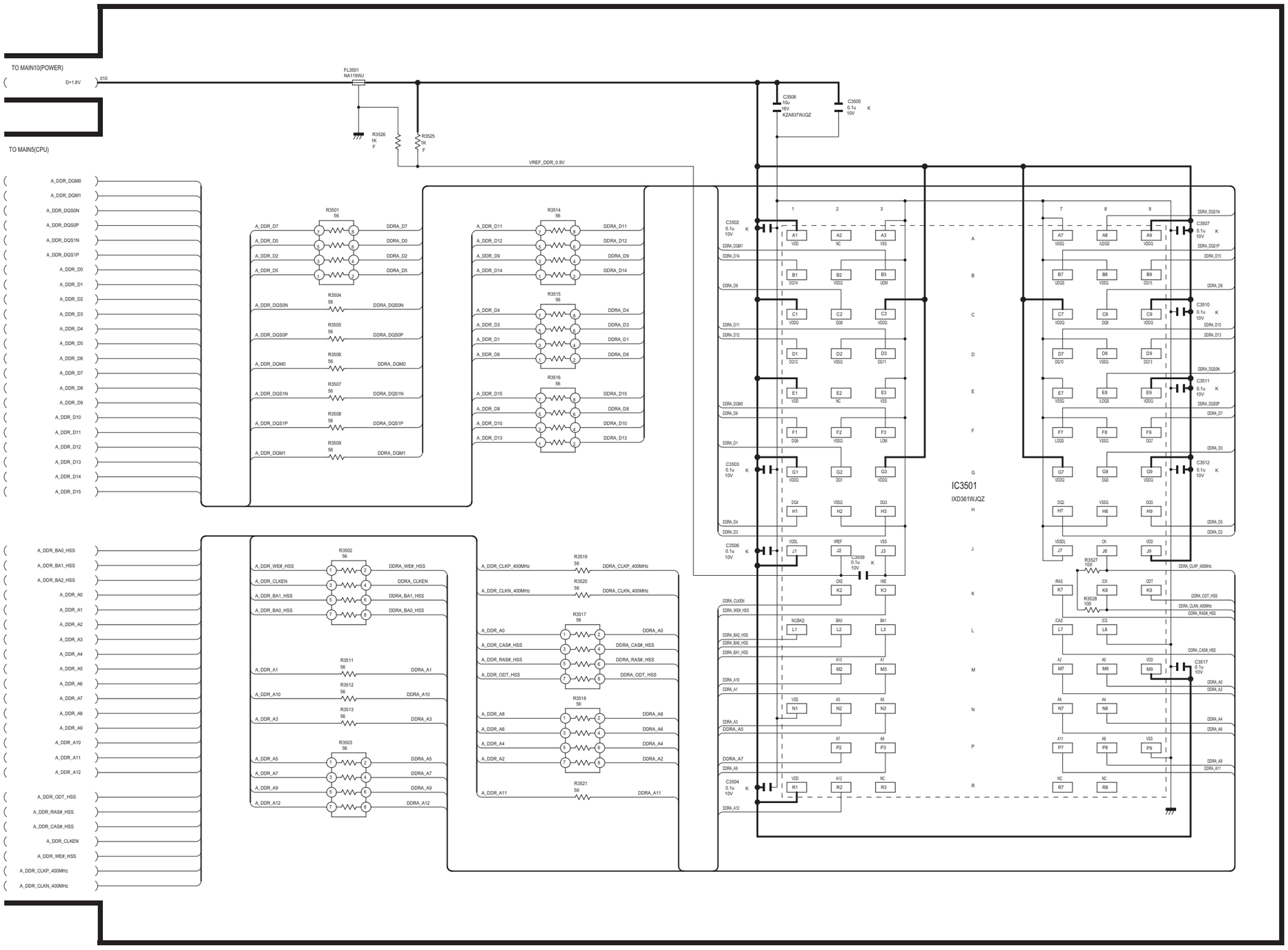


- MAIN Unit-5/11 (LC-32LE340M)



- MAIN Unit-6/11

MAIN6(DDR)



- MAIN Unit-7/11 (LC-32LE240M)

MAIN7 (FLASH)

TO MAIN10(POWER)

BU+3.3

TO MAIN5(CPU)

SPI_WP
SPI_CLK
SPI_CZ
SPI_DI_DAT
SPI_DO_DAT

I2C_CLK
I2C_DAT

SPI_WP
SPI_DO_DAT
SPI_CZ

R3101
4.7K

*IC3101
RH-IXD463WJQZQ
GND WP SO/SIO1 CS
SCLK
SI/SIO0 HOLD VCC

C3101
0.1u
10V
CZB

SPI_DI_DAT
SPI_CLK

R3104
10

R3103
4.7K

R3105
10

C3102
0.1u
10V

IC3102
BR24T28F
A0 A1 A2

R3102
0

For DATA
I2C Address at A4

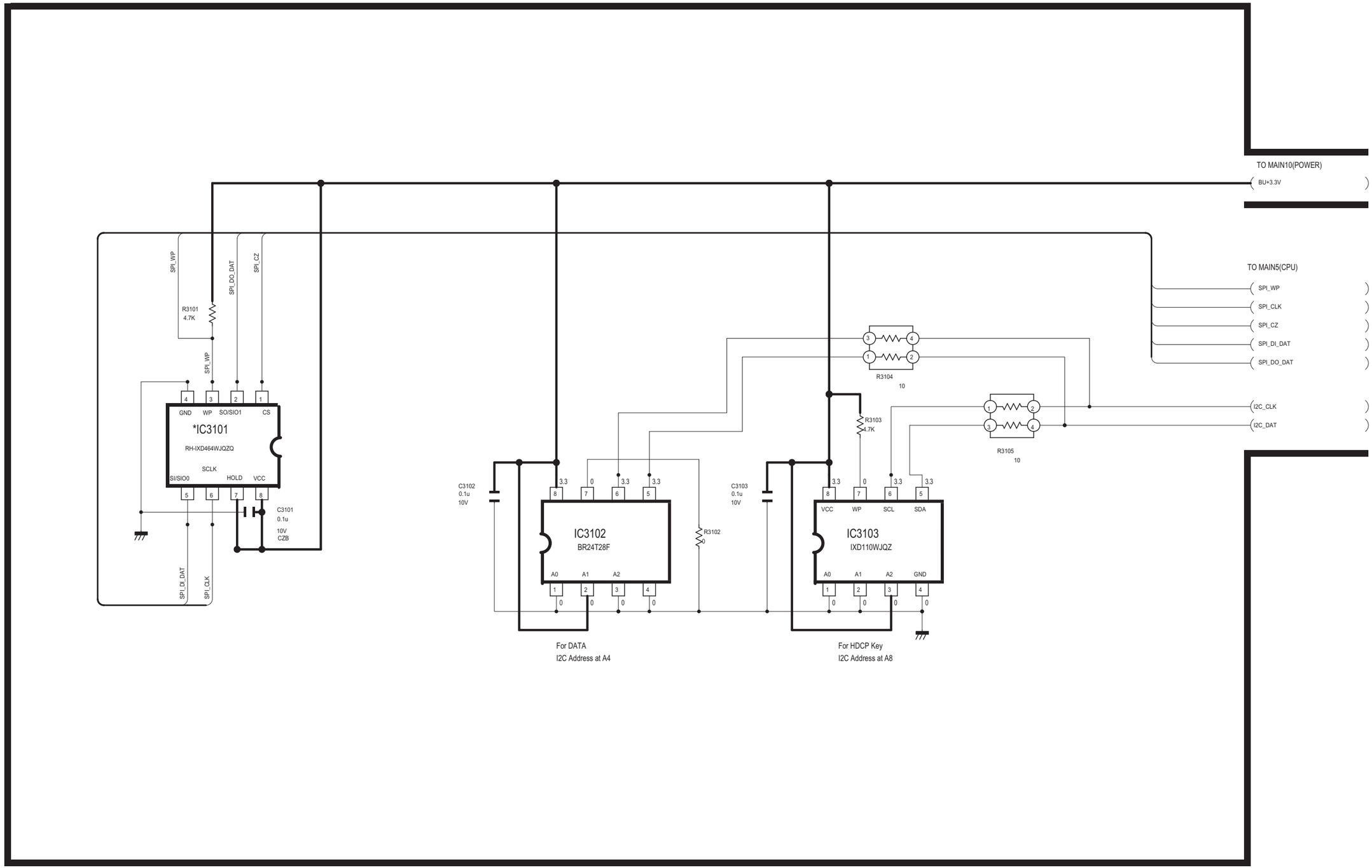
C3103
0.1u
10V

IC3103
IXD110WJQZ
VCC WP SCL SDA
A0 A1 A2 GND

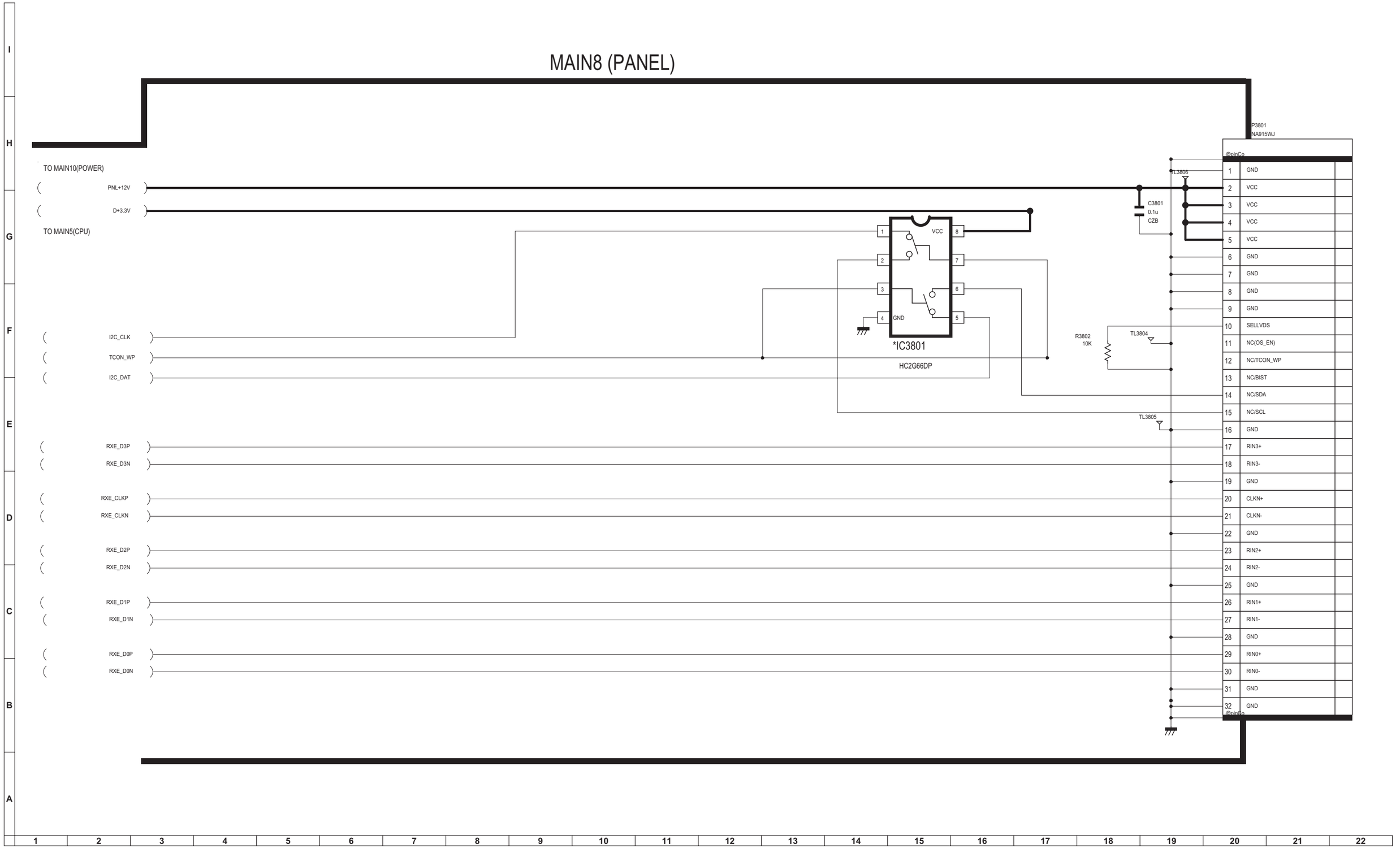
For HDCP Key
I2C Address at A8

- MAIN Unit-7/11 (LC-32LE340M)

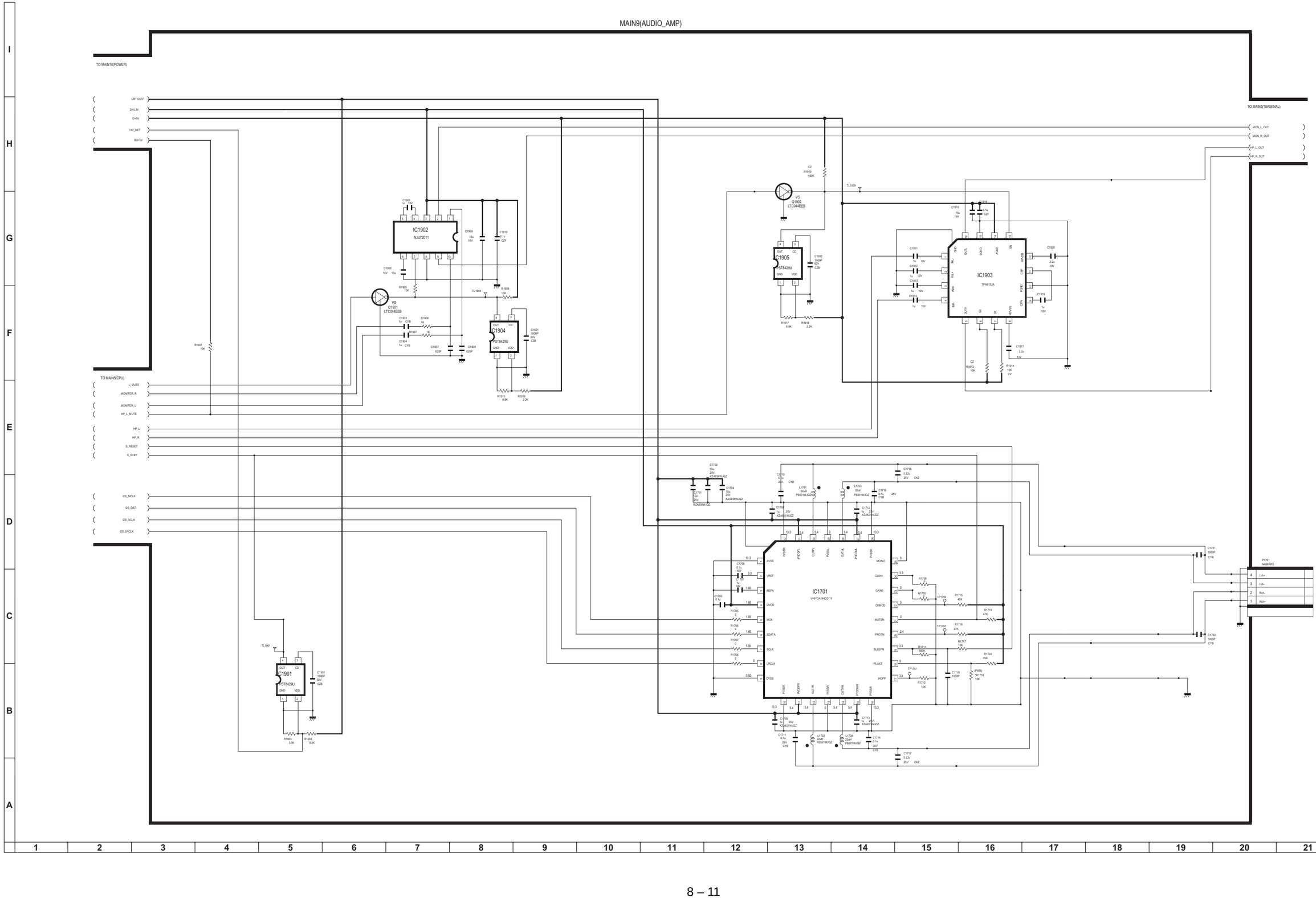
MAIN7 (FLASH)



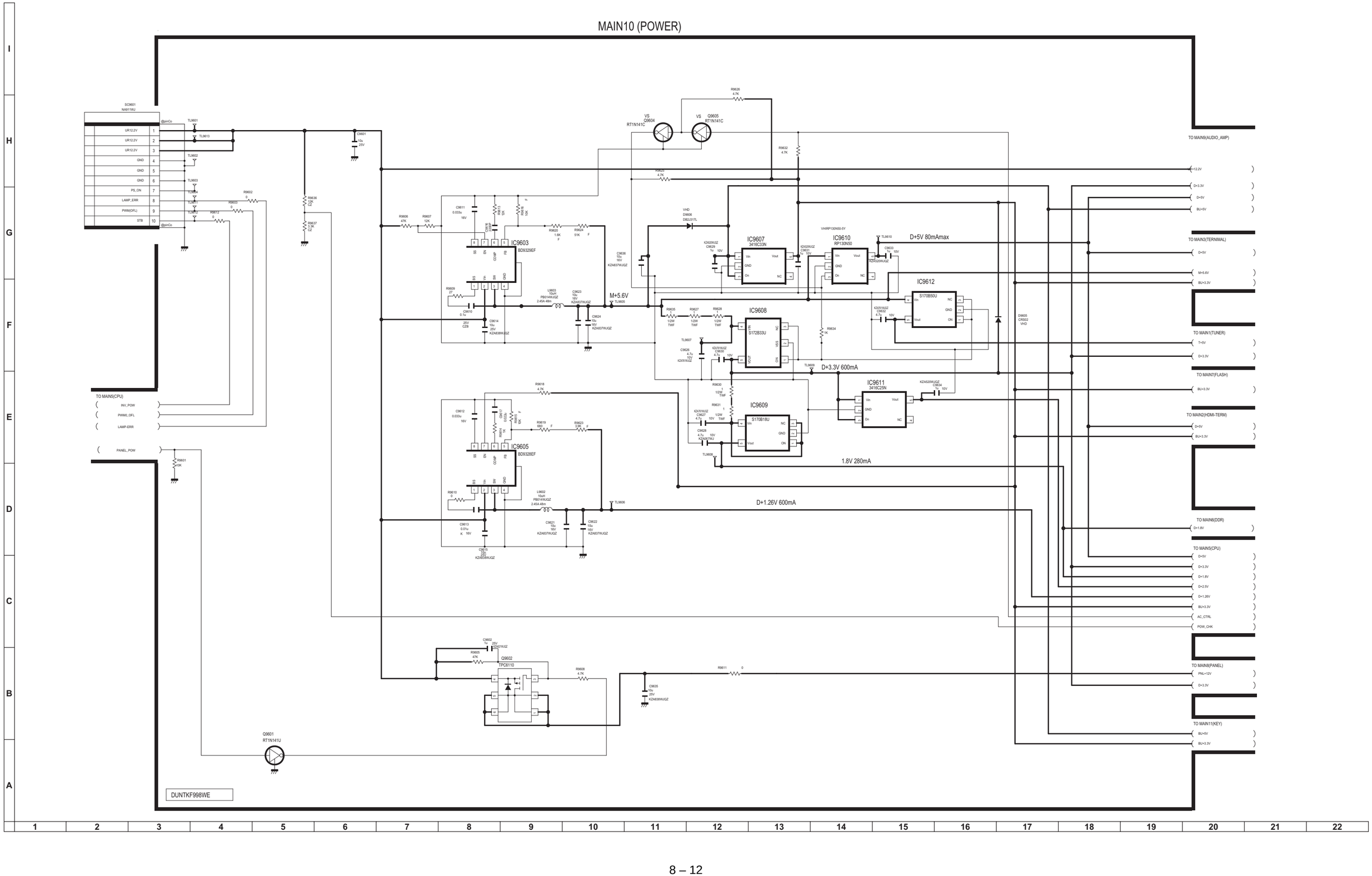
- MAIN Unit-8/11



- MAIN Unit-9/11

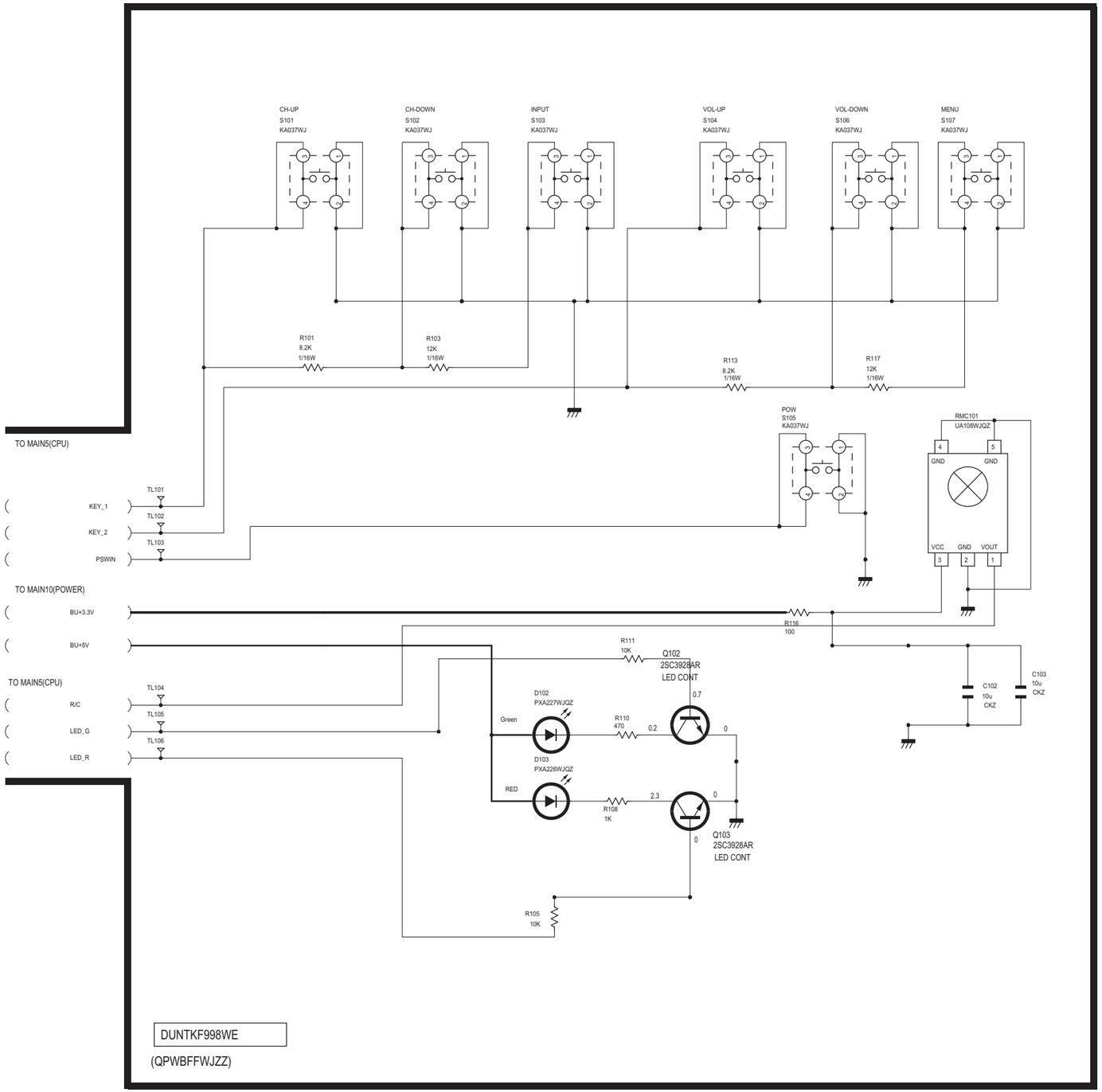


- MAIN Unit-10/11



- MAIN Unit-11/11

MAIN11(KEY/RC)



SHARP PARTS GUIDE

No. SY1V132LE340M

LCD COLOR TELEVISION

MODELS **LC-32LE240M**
LC-32LE340M

Note:
The reference numbers on the PWB are arranged in alphabetical order.

CONTENTS

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

SHARP CORPORATION

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] PRINTED WIRING BOARD ASSEMBLIES					
N	DUNTKF998FMG4		N	V	MAIN Unit (LC-32LE340M)
N	DKEYMF998FMG5		N	V	MAIN Unit (LC-32LE240M)
N	RUNTKA929WJQZ		N	V	POWER Unit
N	RUNTKA927WJZZ		N	V	LED PWB-A
N	RUNTKA928WJZZ		N	V	LED PWB-B
[2] LCD PANEL					
N	R1LK315T3HB00W		N	V	LCD Panel Unit
[3] DKEYMF998FMG4/5 (MAIN Unit)					
C102	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C103	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C501	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C502	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C503	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C504	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C508	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C509	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C514	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C515	VCCCCZ1HH102JY	AA		J	Capacitor 1000p 50V Ceramic
C517	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C518	VCCCCZ1HH102JY	AA		J	Capacitor 1000p 50V Ceramic
C526	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C527	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C530	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C531	VCCCCZ1HH102JY	AA		J	Capacitor 1000p 50V Ceramic
C532	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C533	VCCCCZ1HH102JY	AA		J	Capacitor 1000p 50V Ceramic
C543	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C544	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C548	VCCCCZ1HH102JY	AA		J	Capacitor 1000p 50V Ceramic
C553	VCCCCZ1HH102JY	AA		J	Capacitor 1000p 50V Ceramic
C560	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C561	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C565	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C566	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C581	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1103	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1105	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1106	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1107	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1108	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1110	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1113	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1114	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1115	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1116	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1117	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1118	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1120	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1121	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1122	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C1123	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C1501	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1502	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1701	RC-KZA838WJQZY	AB		J	Capacitor 10 25V Ceramic
C1702	RC-KZA838WJQZY	AB		J	Capacitor 10 25V Ceramic
C1704	RC-KZA838WJQZY	AB		J	Capacitor 10 25V Ceramic
C1705	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1706	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1707	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1708	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C1709	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C1710	VCKYCY1EB104KY	AB		J	Capacitor 0.1 25V Ceramic
C1711	VCKYCY1EB104KY	AB		J	Capacitor 0.1 25V Ceramic
C1712	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C1713	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C1714	VCKYCY1EB104KY	AB		J	Capacitor 0.1 25V Ceramic
C1715	VCKYCY1EB104KY	AB		J	Capacitor 0.1 25V Ceramic
C1716	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C1717	RC-KZA709WJQZY	AA		J	Capacitor 0.22 25V Ceramic
C1718	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1731	VCKYCY1HB102KY	AA		J	Capacitor 1000p 50V Ceramic
C1732	VCKYCY1HB102KY	AA		J	Capacitor 1000p 50V Ceramic
C1901	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1902	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1903	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1904	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1905	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1907	VCCCCZ1HH821JY	AA		J	Capacitor 820p 50V Ceramic
C1908	VCCCCZ1HH821JY	AA		J	Capacitor 820p 50V Ceramic
C1909	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1910	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C1911	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1912	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DKEYMF998FMG4/5 (MAIN Unit)					
C1913	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1914	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1915	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C1916	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C1917	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C1919	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1920	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C1921	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1922	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3101	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3102	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3103	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3301	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C3302	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C3303	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C3304	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3306	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3307	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3308	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3309	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3310	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3311	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3312	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3313	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3314	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3315	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C3316	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C3317	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3318	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C3319	RC-KZA520WJQZY	AA		J	Capacitor 1 Ceramic
C3320	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3321	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C3322	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3323	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3324	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3325	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3326	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3327	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3328	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3329	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3330	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3331	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3332	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3333	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3334	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3335	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3336	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3337	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3338	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3339	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3340	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3341	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C3342	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3343	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3344	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3345	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3346	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3347	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3348	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3349	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3350	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3351	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C3352	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C3353	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C3354	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3355	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3356	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3357	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C3358	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C3359	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3360	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C3361	VCKYCZ1CB223KY	AC		J	Capacitor 0.022 16V Ceramic
C3362	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3363	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C3364	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C3365	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C3366	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3367	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3368	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3369	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3370	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3371	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3372	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C3373	RC-KZA115WJZZY	AB		J	Capacitor 2.2 10V Ceramic
C3374	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DKEYMF998FMG4/5 (MAIN Unit)					
C3375	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3376	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3377	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3378	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C3379	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3380	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C3502	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3503	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3504	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3505	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3506	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3507	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3508	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C3509	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3510	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3511	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3512	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3517	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3801	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9601	RC-KZA838WJQZY	AB		J	Capacitor 10 25V Ceramic
C9602	RC-KZA621WJQZY	AA		J	Capacitor 1 25V Ceramic
C9610	VCKYCZ1EB104KY	AA		J	Capacitor 0.1 25V Ceramic
C9611	VCKYCZ1CB333KY	AA		J	Capacitor 0.033 16V Ceramic
C9612	VCKYCZ1CB333KY	AA		J	Capacitor 0.033 16V Ceramic
C9613	VCKYCZ1CB103KY	AB		J	Capacitor 0.01 16V Ceramic
C9614	RC-KZA838WJQZY	AB		J	Capacitor 10 25V Ceramic
C9615	RC-KZA838WJQZY	AB		J	Capacitor 10 25V Ceramic
C9616	VCKYCZ1HB222KY	AB		J	Capacitor 2200p 50V Ceramic
C9617	VCKYCZ1CB223KY	AC		J	Capacitor 0.022 16V Ceramic
C9621	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C9622	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C9623	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C9624	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
C9626	RC-KZA761WJQZY	AB		J	Capacitor 4.7 10V Ceramic
C9627	RC-KZA761WJQZY	AB		J	Capacitor 4.7 10V Ceramic
C9628	RC-KZA067WJZZY	AB		J	Capacitor 1000p 50V Ceramic
C9629	RC-KZA520WJQZY	AA		J	Capacitor 1 Ceramic
C9630	RC-KZA761WJQZY	AB		J	Capacitor 4.7 10V Ceramic
C9631	RC-KZA520WJQZY	AA		J	Capacitor 1 Ceramic
C9632	RC-KZA761WJQZY	AB		J	Capacitor 4.7 10V Ceramic
C9633	RC-KZA520WJQZY	AA		J	Capacitor 1 Ceramic
C9634	RC-KZA520WJQZY	AA		J	Capacitor 1 Ceramic
C9635	RC-KZA838WJQZY	AB		J	Capacitor 10 25V Ceramic
C9636	RC-KZA837WJQZY	AB		J	Capacitor 10 10V Ceramic
D102	RH-PXA227WJQZY		N	V	Diode PY1111R-TR
D103	RH-PXA226WJQZY		N	V	Diode BR1111R-TR
D510	VHDBAV70+++-1Y	AB		J	Diode BAV70,215
D1101	VHDKDS114E+-1Y	AB		J	Diode KDS114E-RTK/P
D1510	VHDDB2S310L-1Y	AB		J	Diode DB2S31000L
D1516	VHDDB2S310L-1Y	AB		J	Diode DB2S31000L
D3301	VHDDA1010++-1Y	AA		J	Diode DA2J10100L
D9605	VHDCRS02+++-1Y	AC		J	Diode CRS02(TE85L,Q,M)
D9606	VHDDB2J317L-1Y			V	Diode DB2J31700L
FB503	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB507	RBLN-A206WJZZY	AA		J	Ferrite Bead
FB517	RBLN-A369WJZZY	AB		J	Ferrite Bead
FB518	RBLN-A369WJZZY	AB		J	Ferrite Bead
FB519	RBLN-A369WJZZY	AB		J	Ferrite Bead
FB520	RBLN-A369WJZZY	AB		J	Ferrite Bead
FB521	RBLN-0093GEZZY	AB		J	Ferrite Bead
FB522	RBLN-0093GEZZY	AB		J	Ferrite Bead
FB523	RBLN-0093GEZZY	AB		J	Ferrite Bead
FB1101	RBLN-A191WJZZY	AB		J	Ferrite Bead
FB1102	RBLN-A191WJZZY	AB		J	Ferrite Bead
FB3301	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3302	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3303	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3304	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3305	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3306	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3307	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3308	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3309	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3310	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3311	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3312	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3313	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3314	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3315	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3316	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB3317	RBLN-A192WJZZY	AA		J	Ferrite Bead
FL1101	RFiLCA072WJQZ			V	Filter
FL1102	RFiLCA058WJZZ	AG		J	Filter
FL3501	RFiLNA119WJZZY	AC		J	Filter
IC508	VHiBR24T02J-1Y			V	IC BR24T02FJ-WE2

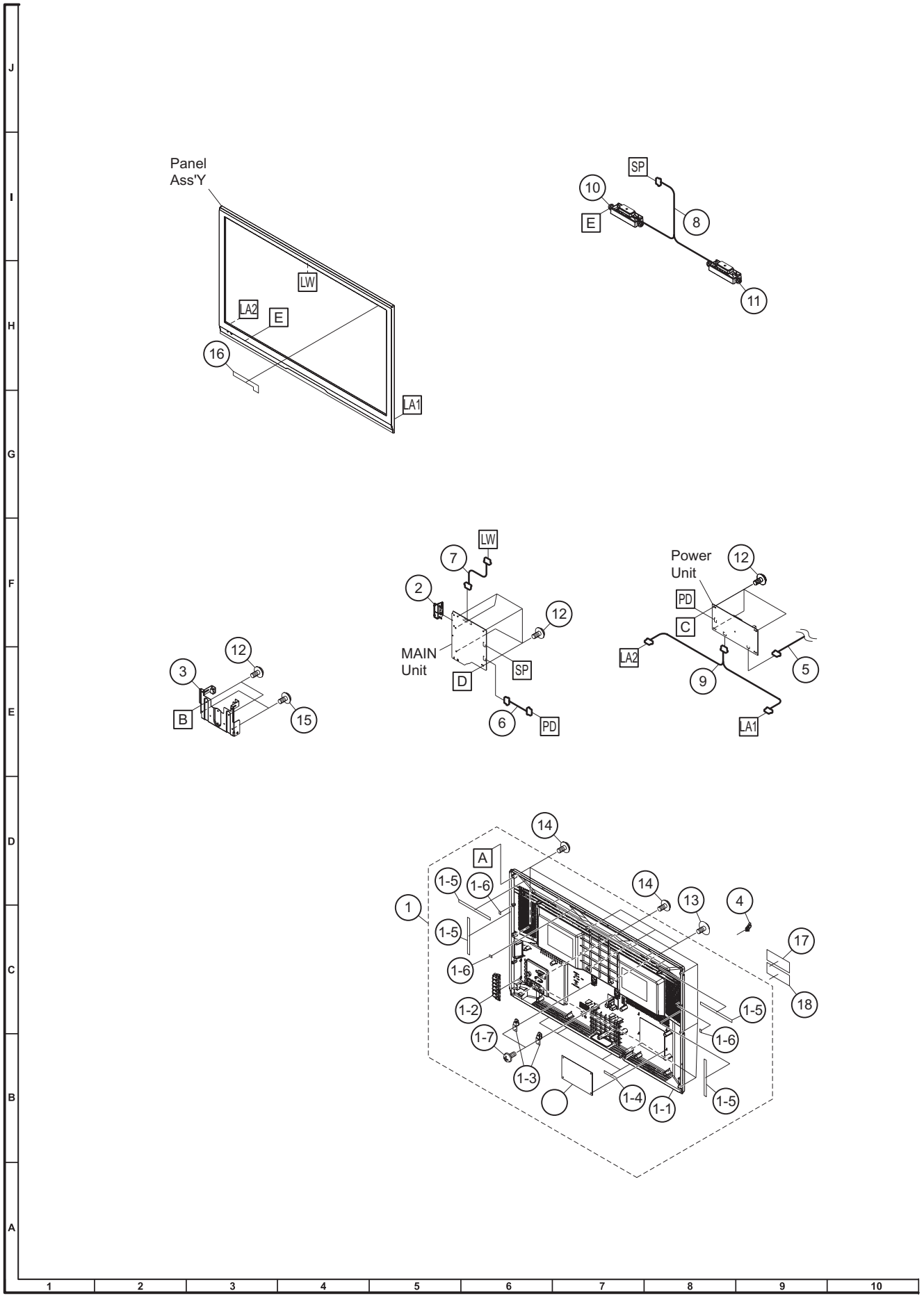
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DKEYMF998FMG4/5 (MAIN Unit)					
IC510	VHiS172B50U-1Y			V	IC S-1172B50-U5T1G
IC1501	VHiBR24T02J-1Y			V	IC BR24T02FJ-WE2
IC1701	VHiYDA164DZ-1Y			V	IC YDA164B-QZE2
IC1901	VHiPST8429U-1Y	AC		J	IC IC-PST8429UR
IC1902	VHiNJU72011-1Y	AG		J	IC NJU72011RB2(TE2)
IC1903	VHiTPA6132A-1Y	AE		J	IC TPA6132A2RTER
IC1904	VHiPST8429U-1Y	AC		J	IC IC-PST8429UR
IC1905	VHiPST8429U-1Y	AC		J	IC IC-PST8429UR
IC3101	RH-iXD463WJQZQ		N	V	IC iXD463WJ (LC-32LE240M)
IC3101	RH-iXD464WJQZQ		N	V	IC W25Q64CVSSIG (LC-32LE340M)
IC3102	VHiBR24T28F-1Y	AE		J	IC BR24T128F-WE2
IC3103	RH-iXD110WJQZY	AG		J	IC CAT24C08
IC3301	RH-iXD459WJQZQ		N	V	IC MST6003VS-LF-Z1 (LC-32LE240M)
IC3301	RH-iXD454WJQZQ			V	IC MST6100VS-LF-Z1-SJ (LC-32LE340M)
IC3303	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC3306	VHiBU4229G+-1Y			V	IC BU4229G-TR
IC3501	RH-iXD361WJQZQ			V	IC H5PS5162GFR-S5C
IC3801	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC9603	VHiBD9329EF-1Y	AF		J	IC BD9329EFJ-E2
IC9605	VHiBD9328EF-1Y	AF		J	IC BD9328EFJ-E2
IC9607	VHi3416C33N-1Y	AC		J	IC MM3416C33NRE
IC9608	VHiS172B33U-1Y	AD		J	IC S-1172B33-U5T1G
IC9609	VHiS170B18U-1Y	AE		J	IC S-1170B18UC-OTDTFG
IC9610	VHiRP130N50-5Y			V	IC RP130N501B-TR-FE
IC9611	VHi3416C25N-1Y	AB		J	IC MM3416C25NRE
IC9612	VHiS170B50U-1Y	AD		J	IC S-1170B50UC-OUJTFG
J501	QSOCZA284WJQZ	AC		J	Socket
J502	QJAKLA047WJQZ			V	Jack
J504	QJAKJ0101SEZZ	AE		J	Jack
J506	QJAKJA024WJZZ	AD		J	Jack
L501	RCiLFA154WJZZY	AC		J	Coil
L1103	VPSBNR82JR34NY	AB		J	Peaking 0.82μH
L1701	RCiLPB301WJQZY	AC		J	Coil
L1702	RCiLPB301WJQZY	AC		J	Coil
L1703	RCiLPB301WJQZY	AC		J	Coil
L1704	RCiLPB301WJQZY	AC		J	Coil
L9602	RCiLPB014WJQZY	AC		J	Coil
L9603	RCiLPB014WJQZY	AC		J	Coil
P501	QPLGNA338WJZZY	AD		J	Plug
P1701	QPLGNA961WJZZY	AD		J	Plug
P3801	QPLGNA915WJZZY	AG		J	Plug
Q102	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112V-1R
Q103	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112V-1R
Q1101	VSDSC2G03//1EY			V	Transistor DSC2G0300L
Q1105	VSLTC044EEB-1Y	AB		J	Transistor LTC044EEBFS8TL
Q1501	VSLTC044EEB-1Y	AB		J	Transistor LTC044EEBFS8TL
Q1502	VSLTC044EEB-1Y	AB		J	Transistor LTC044EEBFS8TL
Q1503	VSLTC044EEB-1Y	AB		J	Transistor LTC044EEBFS8TL
Q1901	VSLTC044EEB-1Y	AB		J	Transistor LTC044EEBFS8TL
Q1902	VSLTC044EEB-1Y	AB		J	Transistor LTC044EEBFS8TL
Q3301	VSRN4983///-1Y	AC		J	Transistor RN4983(TE85L,F)
Q3302	VSLTC014EEB-1Y	AB		J	Transistor LTC014EEBFS8TL
Q3304	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q9601	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q9602	VSTPC6110++-1Y	AC		J	Transistor TPC6110(TE85L,F,M)
Q9604	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
Q9605	VSRT1N141C/-1Y	AB		J	Transistor RT1N141U-T112-1
R101	VRS-CZ1JF822JY	AA		J	Resistor 8.2k 1/16W Metal Oxide
R103	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R105	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R108	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R110	VRS-CZ1JF471JY	AA		J	Resistor 470 1/16W Metal Oxide
R111	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R113	VRS-CZ1JF822JY	AA		J	Resistor 8.2k 1/16W Metal Oxide
R116	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R117	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R501	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R502	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R503	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R505	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R506	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R507	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R508	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R509	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R510	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R511	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R512	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R513	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R514	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R515	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R516	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R517	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R518	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R519	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R520	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DKEYMF998FMG4/5 (MAIN Unit)					
R521	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R522	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R523	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R524	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R525	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R526	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R527	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R528	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R529	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R532	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R533	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R534	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R535	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R536	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R547	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R548	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R549	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R577	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R578	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R581	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R582	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R583	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R584	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R590	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R601	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R607	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R608	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R610	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R611	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R613	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R614	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R615	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R616	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R620	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R621	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R625	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R626	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R631	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R632	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1102	VRS-CZ1JF682JY	AA		J	Resistor 6.8k 1/16W Metal Oxide
R1103	VRS-CZ1JF682JY	AA		J	Resistor 6.8k 1/16W Metal Oxide
R1105	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R1111	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R1113	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R1114	VRS-CZ1JF821JY	AA		J	Resistor 820 1/16W Metal Oxide
R1115	VRS-CZ1JF152JY	AA		J	Resistor 1.5k 1/16W Metal Oxide
R1116	VRS-CZ1JF271JY	AA		J	Resistor 270 1/16W Metal Oxide
R1117	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R1118	VRS-CZ1JF681JY	AA		J	Resistor 680 1/16W Metal Oxide
R1119	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1125	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1127	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R1131	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R1132	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1133	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1138	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R1143	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R1144	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R1503	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R1504	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1505	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1510	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1511	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R1516	VRK-SA1JF473JY	AC		J	Resistor 47k 1/16W Metal Composition
R1547	VRS-CZ1JF201JY	AA		J	Resistor 200 1/16W Metal Oxide
R1705	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1706	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1707	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1708	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1709	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1710	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1711	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R1712	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1715	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R1716	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R1717	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1718	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1719	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R1720	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R1901	VRS-CZ1JF153JY	AA		J	Resistor 15k 1/16W Metal Oxide
R1903	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R1904	VRS-CZ1JF822JY	AA		J	Resistor 8.2k 1/16W Metal Oxide
R1905	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R1906	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R1907	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DKEYMF998FMG4/5 (MAIN Unit)					
R1908	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1910	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R1912	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1914	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1915	VRS-CZ1JF682JY	AA		J	Resistor 6.8k 1/16W Metal Oxide
R1916	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R1917	VRS-CZ1JF682JY	AA		J	Resistor 6.8k 1/16W Metal Oxide
R1918	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R3101	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3102	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3103	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3104	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R3105	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R3301	VRS-CZ1JF224JY	AA		J	Resistor 220k 1/16W Metal Oxide
R3302	VRS-CZ1JF562JY	AA		J	Resistor 5.6k 1/16W Metal Oxide
R3303	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3304	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3305	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3306	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3308	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3310	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3312	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3313	VRS-CZ1JF224JY	AA		J	Resistor 220k 1/16W Metal Oxide
R3315	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3316	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3319	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3320	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3321	VRS-CZ1JF272JY	AA		J	Resistor 2.7k 1/16W Metal Oxide
R3322	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3323	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3324	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R3325	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3326	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R3327	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3328	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3329	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R3330	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3331	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3332	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3333	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3334	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3335	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3336	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3337	VRK-SA1JF333JY	AB		J	Resistor 33k 1/16W Metal Composition
R3338	VRK-SA1JF102JY	AB		J	Resistor 1k 1/16W Metal Composition
R3339	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3340	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3341	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3342	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3343	VRS-CZ1JF272FY	AA		J	Resistor 2.7k 1/16W Metal Oxide
R3344	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3345	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3346	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3347	VRS-CZ1JF471JY	AA		J	Resistor 470 1/16W Metal Oxide
R3349	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3350	VRK-SA1JF222JY	AB		J	Resistor 2.2k 1/16W Metal Composition
R3351	VRK-SA1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Composition
R3353	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3354	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3355	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3356	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3357	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3358	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3359	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3360	VRS-CZ1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3361	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3362	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R3363	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3364	VRS-CZ1JF224JY	AA		J	Resistor 220k 1/16W Metal Oxide
R3365	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3366	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3367	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3368	VRS-CZ1JF224JY	AA		J	Resistor 220k 1/16W Metal Oxide
R3369	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3370	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R3371	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3372	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3373	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3376	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3377	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3385	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3430	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3431	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3501	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition
R3502	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition

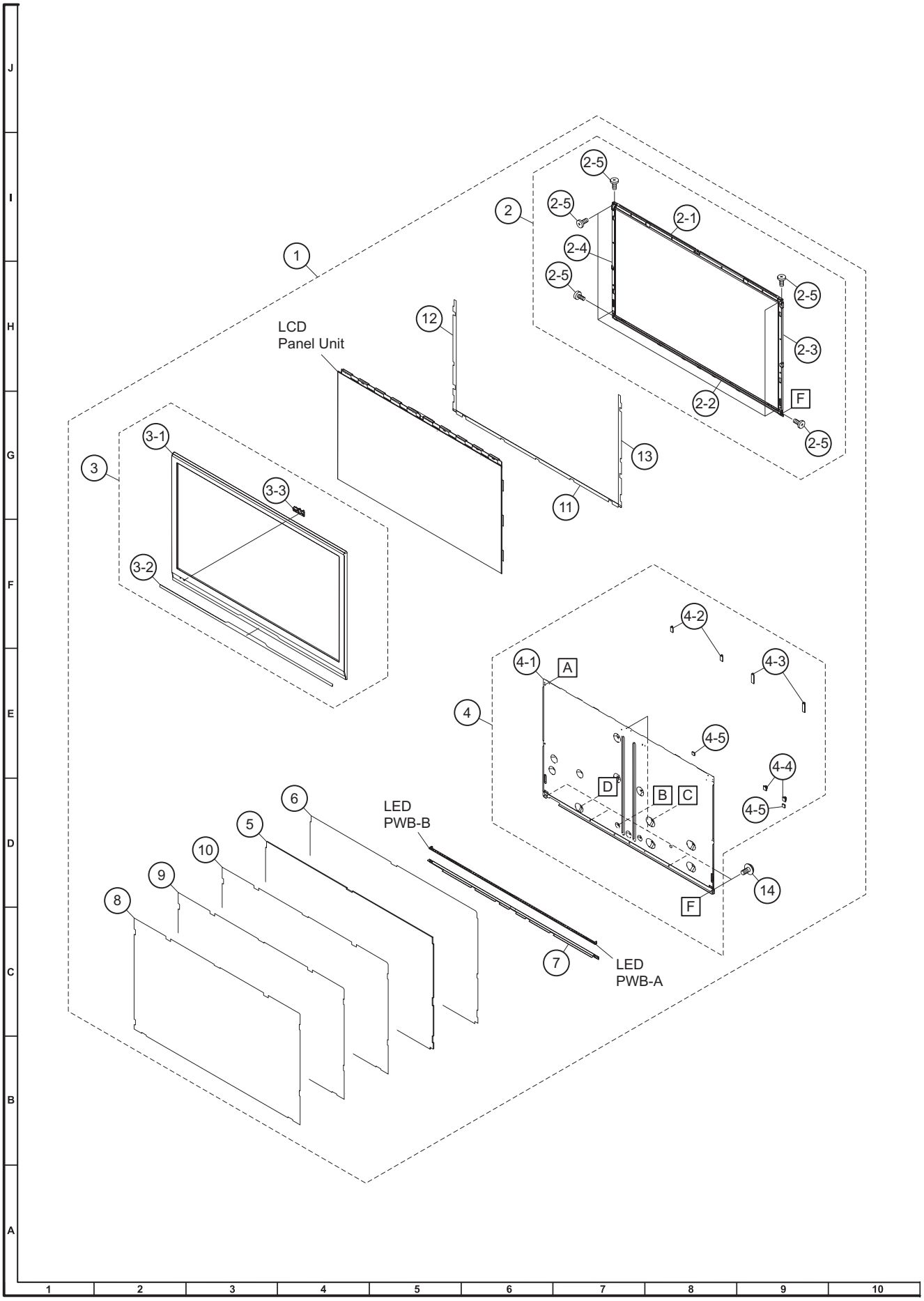
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] DKEYMF998FMG4/5 (MAIN Unit)					
R3503	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition
R3504	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3505	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3506	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3507	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3508	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3509	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3511	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3512	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3513	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3514	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition
R3515	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition
R3516	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition
R3517	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition
R3518	VRK-SB1FF560JY			V	Resistor 56 1/32W Metal Composition
R3519	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3520	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3521	VRS-CZ1JF560JY	AA		J	Resistor 56 1/16W Metal Oxide
R3525	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3526	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3527	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3528	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3802	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9601	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9602	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9603	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9605	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9606	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R9607	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R9608	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9609	VRS-CZ1JF270JY	AA		J	Resistor 27 1/16W Metal Oxide
R9610	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9611	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9612	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9613	VRS-CZ1JF123JY	AA		J	Resistor 12k 1/16W Metal Oxide
R9614	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9615	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9616	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9618	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9619	VRS-CZ1JF681FY	AA		J	Resistor 680 1/16W Metal Oxide
R9620	VRS-CZ1JF162FY	AA		J	Resistor 1.6k 1/16W Metal Oxide
R9623	VRS-CZ1JF392FY	AA		J	Resistor 3.9k 1/16W Metal Oxide
R9624	VRS-CZ1JF513FY	AA		J	Resistor 51k 1/16W Metal Oxide
R9625	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9626	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9627	VRS-TW2HF1R0JY	AA		J	Resistor 1 1/2W Metal Oxide
R9628	VRS-TW2HF1R0JY	AA		J	Resistor 1 1/2W Metal Oxide
R9630	VRS-TW2HF1R0JY	AA		J	Resistor 1 1/2W Metal Oxide
R9631	VRS-TW2HF1R0JY	AA		J	Resistor 1 1/2W Metal Oxide
R9632	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9634	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9635	VRS-TW2HF1R0JY	AA		J	Resistor 1 1/2W Metal Oxide
R9636	VRS-CZ1JF123FY	AA		J	Resistor 12k 1/16W Metal Oxide
R9637	VRS-CZ1JF332FY	AA		J	Resistor 3.3k 1/16W Metal Oxide
RMC101	RRMCUA108WJQZY		N	V	Remote Receiver
S101	QSW-KA037WJZZY	AC		J	Switch
S102	QSW-KA037WJZZY	AC		J	Switch
S103	QSW-KA037WJZZY	AC		J	Switch
S104	QSW-KA037WJZZY	AC		J	Switch
S105	QSW-KA037WJZZY	AC		J	Switch
S106	QSW-KA037WJZZY	AC		J	Switch
S107	QSW-KA037WJZZY	AC		J	Switch
SC502	QSOCNB037WJQZ	AF		J	Socket
SC1501	QSOCZA271WJQZY	AG		J	Socket
SC9601	QPLGNA911WJZZY			V	Socket
TH3301	VHHM1103J15-1Y	AB		J	Thermistor
TU1101	RTUNQA067WJQZ	AU		J	Tuner
VA505	RH-VXA074WJZZY	AB		J	AVRL101A1R1NTB
VA506	RH-VXA074WJZZY	AB		J	AVRL101A1R1NTB
X3301	RCRSCA239WJQZY	AD		J	Crystal

[4] CABINET AND MECHANICAL PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] CABINET AND MECHANICAL PARTS					
1	CCABBC052WJ01		N	V	Rear Cabinet Ass'y
1-1	Not Available	-	N	-	Rear Cabinet
1-2	JBTN-A960WJ4A		N	V	Control Button
1-3	LANGKD438WJ4W			V	VESA Angle, x2
1-4	PSPAHA978WJ4Z	AB		J	Spacer, x4 (80 X 12 X t0.5)
1-5	PSPAHB354WJ4Z			V	Spacer, x4 (200 X 14 X t0.5)
1-6	PSPAHC407WJ00			V	Spacer, x8 (16 X 10 X t0.55)
1-7	XEBS930P08000	AA		J	For VESA Holder, x2
2	GCOVAE325WJ4A		N	V	Side Cover
3	LANGKD478WJ4W		N	V	Bottom Bracket
4	LHLDWA101WJKZ	AD		J	AC Cord Hook
5	QACCBA051WJN2			V	AC Cord (for Middle East)
5	QACCZA048WJN2	AL		J	AC Cord (except for Philippines/Thailand)
5	QACCZA077WJN2			V	AC Cord (for Philippines)
5	QACCZA188WJN22			V	AC Cord (for Thailand)
6	QCNW-M465WJQZ		N	V	Connecting Cord (PD)
7	QCNW-M466WJQZ		N	V	Connecting Cord (LW)
8	QCNW-M467WJQZ		N	V	Connecting Cord (SP)
9	QCNW-M468WJQZ		N	V	Connecting Cord (L1)
10	RSP-ZA570WJZZ		N	V	Speaker-L
11	RSP-ZA571WJZZ		N	V	Speaker-R
12	XBPS730P06WS0	AA		J	Spacer PWB, x8
13	XBPS830P06WS0	AA		J	Screw for CAB, x3
14	XEBS830P08000	AA		J	Screw, x9 (M3x8) (LC-32LE240M)
15	XEBS830P12000	AA		J	Screw for Bottom Bracket, x2 (LC-32LE340M)
16	TLABZD156WJZZ		N	V	POP Label
17	TLABME206WJZZ		N	V	Model Label (except for Thailand)
17	TLABME207WJZZ			V	Model Label (LC-32LE240M for Middle East)
17	TLABME208WJZZ			V	Model Label (LC-32LE240M for Thailand)
17	TLABME209WJZZ		N	V	Model Label (LC-32LE340M)
18	TLABSA206WJZZ			V	Regulation Label (for Indonesia)

[5] LCD PANEL


1
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Panel Unit
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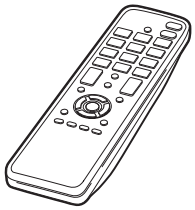
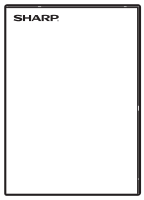
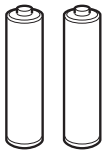
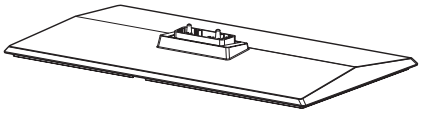
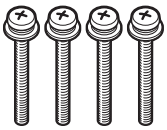
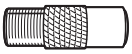
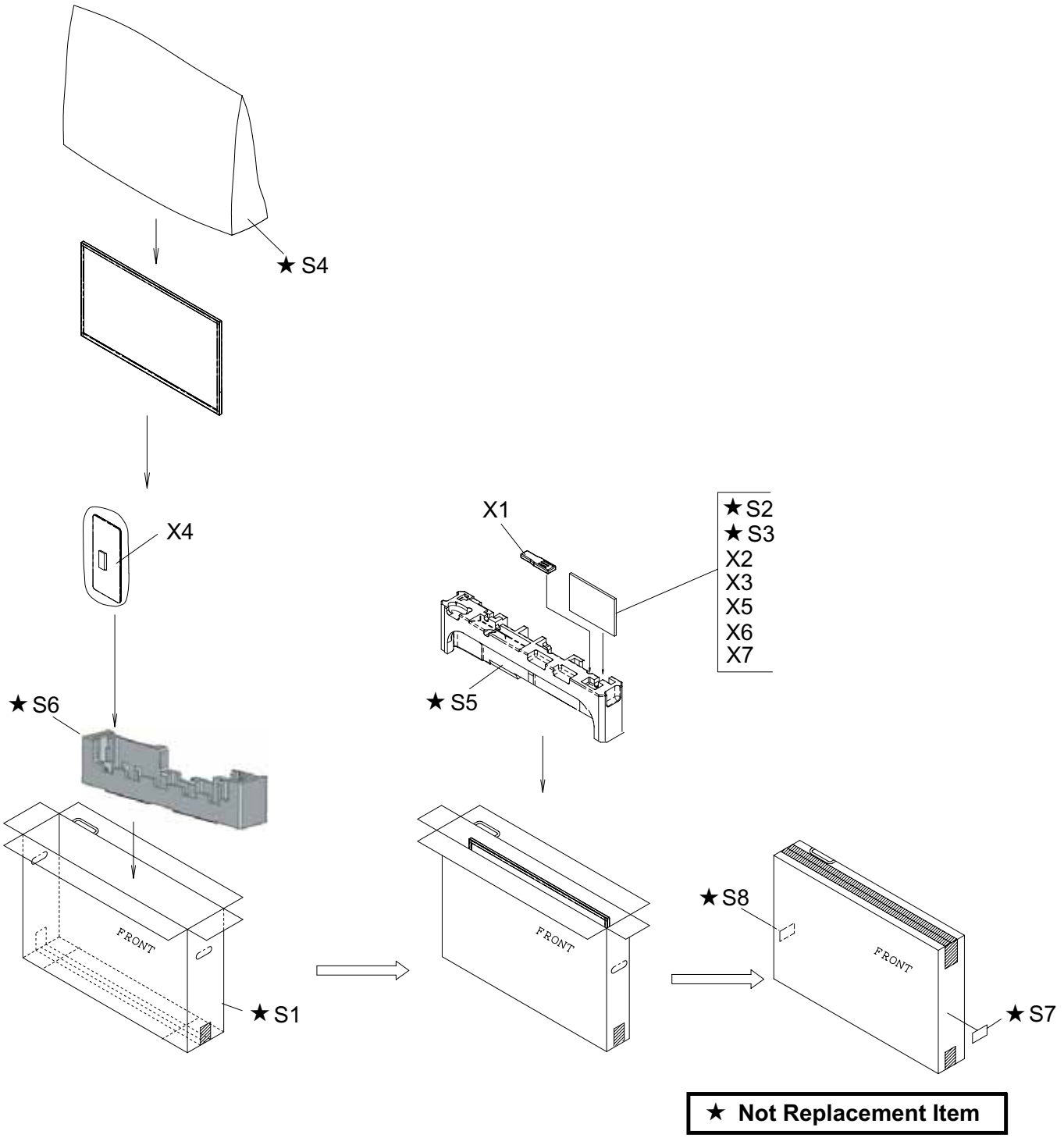
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[5] LCD PANEL					
1	Not Available	-	N	-	Panel Ass'y
2	CANGKD508WE01		N	V	Bezel Ass'y
2-1	Not Available	-	N	-	Bezel Ass'y (Top)
2-2	CANGKD509WJ01		N	V	Bezel Ass'y (Bottom)
2-3	CANGKD510WJ01		N	V	Bezel Ass'y (Left)
2-4	CANGKD511WJ01		N	V	Bezel Ass'y (Right)
2-5	LX-BZ2312TPZZ	AB		J	Screw, x8
3	CCABAC850WJ02		N	V	CAB-A Ass'y (LC-32LE240M)
3	CCABAC850WJ01		N	V	CAB-A Ass'y (LC-32LE340M)
3-1	Not Available	-	N	-	CAB-A
3-2	HDECPA100WJ4A		N	V	DECO Sheet (LC-32LE240M)
3-2	HDECPA099WJ4A		N	V	DECO Sheet (LC-32LE340M)
3-3	HDECQB690WJ4A		N	V	LED DEC
4	CCHSMA655WJ01		N	V	Chassis Ass'y
4-1	Not Available	-	N	-	PWB Chassis
4-2	LHLDWA175WJUZ	AC		J	WH, x2
4-3	LHLDWA176WJUZ	AC		J	WH, x2
4-4	LHLDWA181WJKZ	AC		J	AC Cord WH, x2
4-5	PSPAZC831WJZZ		N	V	Spacer for SPK, x2
5	PGiDMA049WJZZ		N	V	LGP
6	PMiR-A315WJZZ		N	V	Reflection
7	PRDARB028WJ4W		N	V	Heat Spreader
8	PSHEPB178WJZZ		N	V	Diffusion Sheet
9	PSHEPB179WJZZ		N	V	Lens Sheet H
10	PSHEPB180WJZZ		N	V	Lens Sheet V
11	PSHEPB206WJZZ		N	V	Bottom Sheet
12	PSHEPB207WJZZ		N	V	Lens Sheet
13	PSHEPB208WJZZ		N	V	Right Sheet
14	XEBS830P08000	AA		J	Screw, x5 (M3x8)

[6] SUPPLIED ACCESSORIES

X1 Remote control unit	X2 Operation manual	X3 "AAA" size battery (x 2)
		
X4 Stand base	**X5 Screws (x 4)**	**X6 Antenna adaptor**
		

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[6] SUPPLIED ACCESSORIES					
X1	RRMCGB016WJSA		N	V	Remote Control Unit
X2	TiNS-F404WJZZ			V	Operation Manual (for Indonesia/Vietnam/Thailand)
X2	TiNS-F405WJZZ		N	V	Operation Manual (for Asia)
X2	TiNS-F406WJZZ		N	V	Operation Manual (for Asia/Middle East)
X2	TiNS-F407WJZZ			V	Operation Manual (for Thailand)
X2	TiNS-F408WJZZ			V	Operation Manual (for Vietnam)
X2	TiNS-F409WJZZ			V	Operation Manual (for Middle East)
X2	TiNS-F415WJZZ		N	V	Operation Manual (for Asia/Middle East)
X2	TiNS-F416WJZZ			V	Operation Manual (for Indonesia)
X2	TiNS-F417WJZZ			V	Operation Manual (for Middle East)
X2	TiNS-F418WJZZ			V	Operation Manual (for Philippines)
X3	Not Available	-		-	"AAA" Size Battery, x2
X4	CDAi-A814WJ01		N	V	Stand Base
X5	XBBS740P40JS0	AD		J	Screw for Stand, x4
X6	QCNCWA969WJZZ			V	Antenna Adaptor (for Philippines)
X7	TGAN-B249WJZZ			V	Warranty Card (LC-32LE240M for Philippines)
X7	TGAN-B383WJN1			V	Warranty Card (LC-32LE240M for Vietnam)
X7	TGAN-B636WJZZ	AD		J	Warranty Card (for Asia)
X7	TGAN-B728WJZZ			V	Warranty Card (for Indonesia)

[7] PACKING PARTS (NOT REPLACEMENT ITEM)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[7] PACKING PARTS (NOT REPLACEMENT ITEM)					
S1	SPAKCG642WJZZ	-	N	-	Packing Case (except LC-32LE240M for Indonesia, LC-32LE340M)
S1	SPAKCG643WJZZ	-		-	Packing Case (LC-32LE240M for Indonesia)
S1	SPAKCG644WJZZ	-	N	-	Packing Case (LC-32LE340M for Asia)
S1	SPAKCG645WJZZ	-		-	Packing Case (LC-32LE340M for Indonesia)
S2	SSAKHA050WJZZ	-		-	Pack for Screw
S3	SSAKA0001PEZZ	-		-	Polyethylene Bag
S4	SPAKPB846WJZZ	-	N	-	Hoso PP
S5	SPAKXD570WJZZ	-	N	-	Top Pad
S6	SPAKXD571WJZZ	-	N	-	Bottom Pad
S7	TLABV0182AJZZ	-		-	No. Card
S8	TLABZD107WJZZ	-		-	Carton Label (for Vietnam)

SHARP

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SH. DS

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