

# SHARP SERVICE MANUAL

No.S912M560LE640X



LCD COLOUR TELEVISION

**MODEL : LC-60LE640X**

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.

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### Parts Guide

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

**SHARP CORPORATION**

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

## SAFETY PRECAUTION

SAFETY PRECAUTION SAFETY PRECAUTION 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.

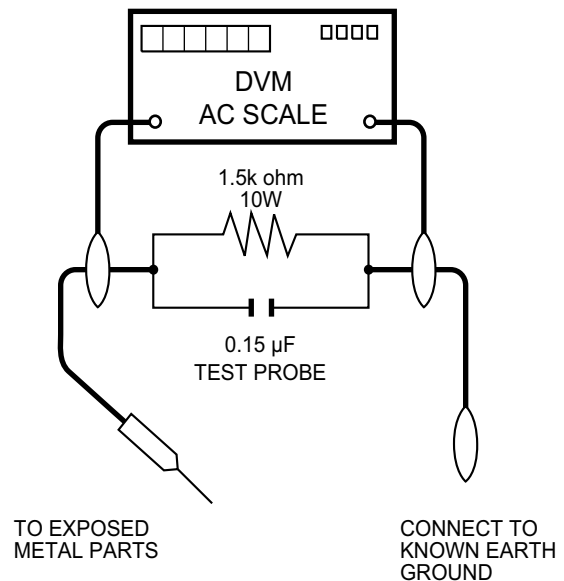
#### BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

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 0.15 F 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.



#### 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	0.3mm 250g (1roll)
ZHNDAi126500E	BK	J	0.6mm 500g (1roll)
ZHNDAi12801KE	BM	J	1.0mm 1kg (1roll)

**MAJOR SERVICE PARTS****PWB UNIT**

Ref No.	Part No.	Description
N	DKEYM953FMH2	MAIN Unit ( LC-60LE640X )
N	DUNTKG016FMF7	LED / RC Unit
N	DUNTKG017FMF7	3 DIR Unit
N	DUNTKF800FMF7	KEY Unit
N	DUNTKF975MF8	T-CON Unit
N	RUNTKB057WJQZ	POWER Unit

**OTHER UNIT**

Ref No.	Part No.	Description
N	R1LK600D3GV0AF	60" LCD Panel Module Unit

**IC FOR EXCLUSIVE USE OF THE SERVICE**

Ref No.	Part No.	Description	Q'ty
IC2004	RH-IXD241WJQZQ	IC R5F21368CNFP (Monitor MICON)	1

NOTE: \*1 Replace MAIN PWB Units (DKEYMF953FM\*\*) in case of IC3104 failure.

**SERVICE JIGS**

Ref No.	Part No.	Description	Q'ty
N	QCNW-C222WJQZ	Connecting Cord L=1000mm 80pin LCD Control to LCD Panel Unit	2
N	QCNW-F676WJQZ	Connecting Cord L=1000mm 41pin Main to LCD Control (LW)	1
N	QCNW-G405WJQZ	Connecting Cord L=1000mm 4pin Main to LCD Control (PL)	1
N	QCNW-N030WJPZ	Connecting Cord L=1000mm 24pin Main to POWER Unit (PD)	1



# CHAPTER 1. SPECIFICATIONS

## [1] SPECIFICATIONS

### Specifications

Item			LC-60LE640X
Resolution			1,920 x 1,080
Video colour system			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV function	TV-standard	Analogue	PAL ( B/G, D/K, I), SECAM ( B/G, D/K, K/K1), NTSC:(M)
		Digital	DVB - T
	Receiving channel	VHF/UHF	44.25-863.25 MHz
	TV tuning system		Auto preset 02ch/07ch/09ch/10ch/28ch at Australia.
	STEREO/BILINGUAL		NICAM ( B/G, I, D/K), A2 stereo (B/G), BTSC
Audio amplifier			10 W x 2
Terminals	ANT (Antenna input)		UHF/VHF 75 Ω Din type
	RS-232C		D-Sub 9 pin male connector
	PC		15 pin mini D-sub, AUDIO in (shared usage with HDMI2) (ϕ 3.5 mm jack)
	INPUT 1 (ARC) HDMI		HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz)
	INPUT 2 HDMI		HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz), AUDIO in (shared usage with PC) (ϕ 3.5 mm jack)
	INPUT 3 HDMI		HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz)
	INPUT 4 (MHL) HDMI		HDMI (HDMI input) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz, 1080P/50Hz, 1080P/60Hz, 1080P/24Hz)
	INPUT 5		AUDIO in, VIDEO in or COMPONENT in (ϕ 3.5 mm jack) (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz)
	INPUT 6		VIDEO in, AUDIO in (ϕ 3.5 mm jack)
	USB 1		USB
	USB 2 (WIRELESS LAN)		USB
	USB 3 (HDD)		USB
	ETHERNET (10/100 BASE-T)		Network connector
	AUDIO IN (HDMI 2/PC)		ϕ 3.5 mm jack* <sup>1</sup>
	DIGITAL AUDIO OUTPUT		Optical S/PDIF digital audio output
	OUTPUT/Headphones		ϕ 3.5 mm jack (audio output)
OSD language			English/Simplified Chinese/Arabic/French/Portuguese/Russian/Persian/Thai/Vietnamese/Indonesian
Power requirement			AC 110 - 240 V, 50/60 Hz
Power consumption (method IEC62087)			165 W (0.3 W Stand by)
Weight	With Stand		28.5 kg
	Without Stand		25.5 kg
Operating temperature			0 °C to + 40 °C

\*<sup>1</sup> The HDMI 2 and PC terminals can both use the same audio input terminal.

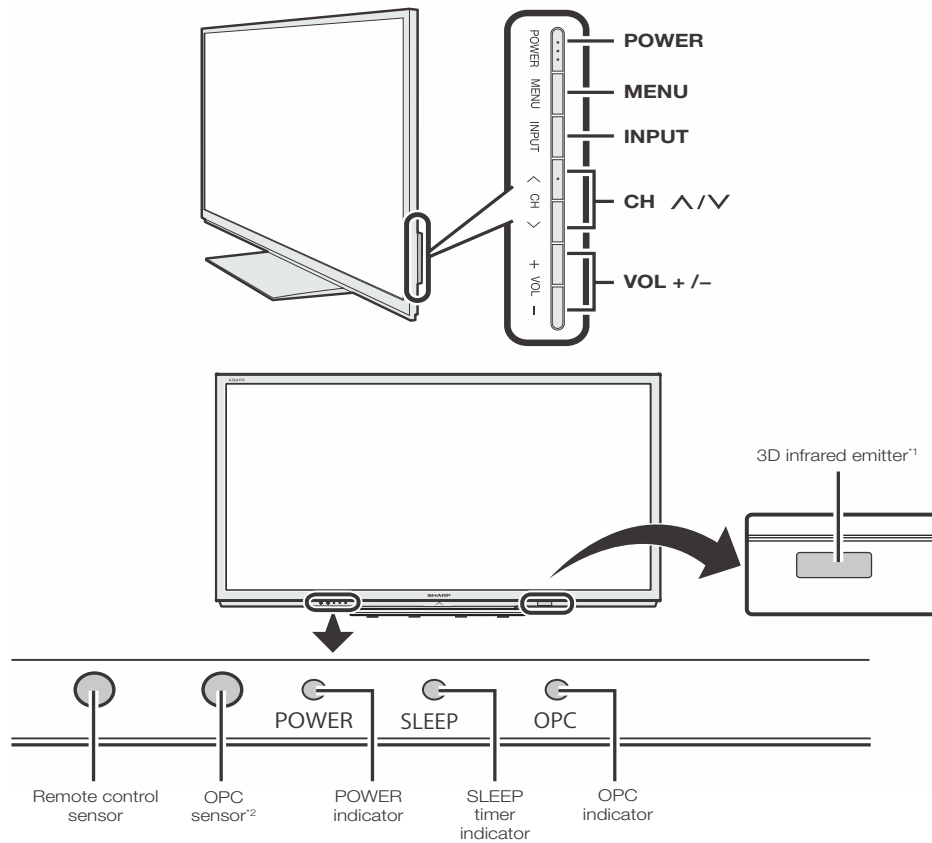
- As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in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

## CHAPTER 2. OPERATION MANUAL

### [1] OPERATION MANUAL

#### Part names and functions

##### TV (front view)

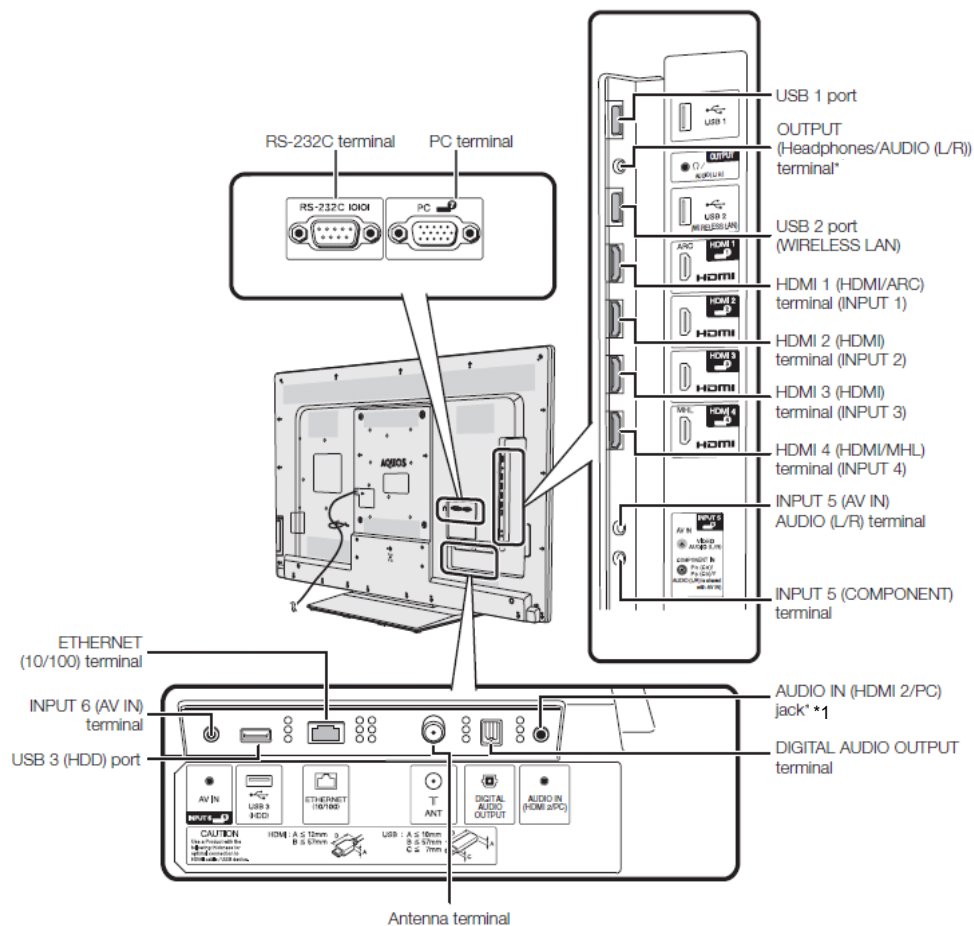


<sup>1</sup> This panel emits infrared signal towards the 3D glasses you wear when viewing 3D images. Do not place anything between the 3D infrared emitter on the TV and the infrared receiver on the 3D glasses.

<sup>2</sup> OPC: Optional Picture Control

## Part names and functions

### TV (rear view)



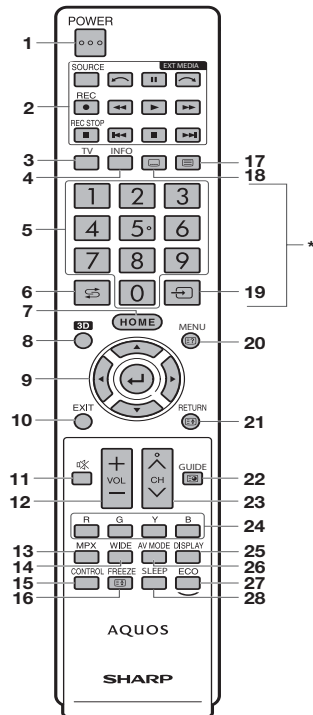
\*1 The HDMI 2 and PC terminals can both use the same audio input terminal (AUDIO IN (HDMI 2/PC)). However, the proper item must be selected in the "Audio select" menu.

#### WARNING

- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Do not set the volume at a high level. Hearing experts advise against extended listening at high volume levels.

## Part names and functions

### Remote control unit



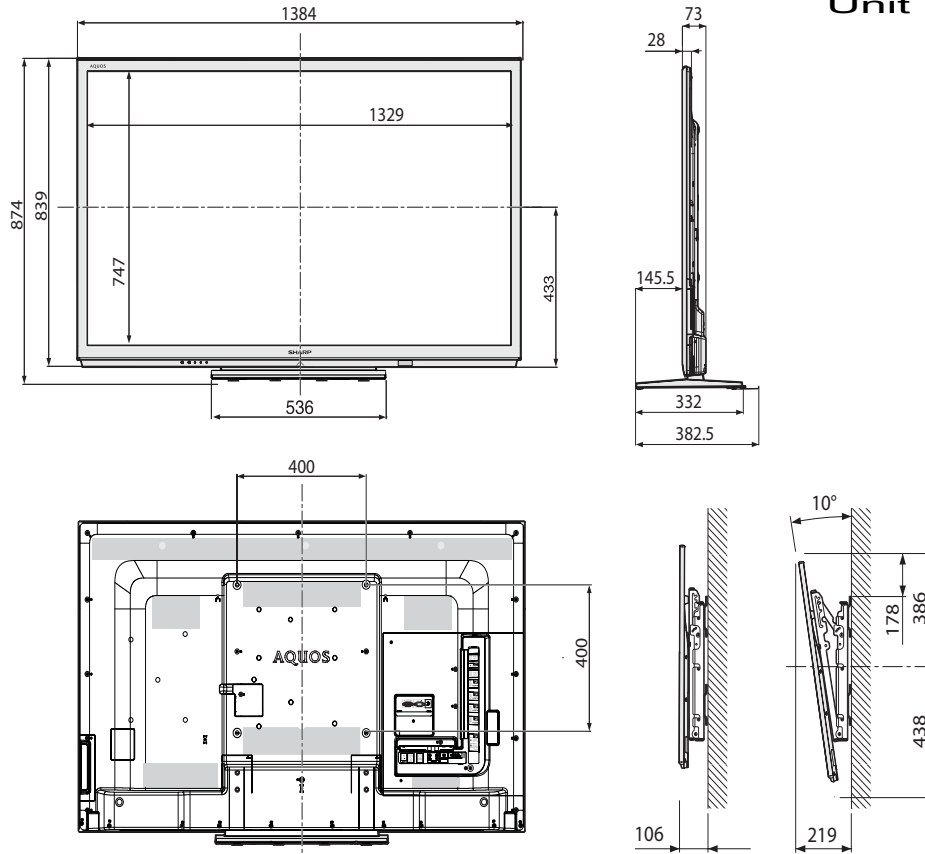
- 1 POWER (Standby/On)**  
To switch the power on and off .
  - 2 EXT MEDIA buttons**  
AQUOS LINK  
If external equipment such as a AQUOS BD player is connected via HDMI cables and is AQUOS LINK compatible, you can use these EXT MEDIA buttons.  
TIME SHIFT  
Press to temporarily record a programme you are watching if you want to interrupt a programme to answer a phone call.
  - 3 TV**  
Press to access analogue and digital TV mode.
  - 4 INFO**  
DTV : Display the programme information .  
ATV : Display the channel information.
  - 5 0-9\***  
Set the channel .
  - 6 ⏮ (Flashback)\***  
Press to return to the previously selected channel or external input.
  - 7 HOME**  
Display the "HOME" screen to enjoy Internet connection and Home network function and to perform settings for the TV .
  - 8 3D**  
Select between 3D and 2D image viewing .
  - 9 ▲/▼/◀/▶ (Cursor)**  
Select a desired item on the setting screen.  
↵ (ENTER)  
Execute a command.
  - 10 EXIT**  
Turn off the On-Screen Display .
  - 11 🔇 (Mute)**  
Mute the sound.
  - 12 VOL +/-**  
Set the volume.
  - 13 MPX**  
Select a sound multiplex mode .
  - 14 WIDE**  
Change a wide image mode .
  - 15 CONTROL**  
Press to display the panel to operate some functions on the screen.
  - 16 FREEZE/⏸ (Hold)**  
Freeze a motion picture on the screen.  
Teletext mode: Stop updating teletext pages automatically.  
Press ⏸ again to release the hold mode .
  - 17 📄 (Teletext)**  
Select the teletext mode (All TV image, all text image and TV/text image) .
  - 18 🗣 (Subtitle)**  
Switch subtitle languages on/off .
  - 19 ➡ (INPUT SOURCE)\***  
Select an input source .
  - 20 MENU/⌂ (Reveal hidden teletext)**  
Displays the menu screen .  
Teletext mode: Display hidden characters .
  - 21 RETURN/⏮ (Top/Bottom/Full)**  
Menu mode: Return to the previous menu screen .  
Teletext mode: Set the area of magnification .
  - 22 GUIDE/📅 (Subpage)**  
DTV : To display EPG (Electronic Programme Guide) screen .  
ATV : Display the channel list.  
Teletext mode: Display the teletext subpage directly .
  - 23 CH/▲/▼**  
TV input mode: Select the channel .  
AQUOS.NET: Select the page .
  - 24 R/G/Y/B (Colour) buttons**  
The coloured buttons are correspondingly used to select the coloured items on the screen (e.g., AQUOS LINK, USB media, Home network, teletext).
  - 25 DISPLAY**  
Display the channel or input information.  
Reveal/hide the guide display for USB media mode .
  - 26 AV MODE**  
Select audio/video settings .
  - 27 ECO**  
Select "Energy save" setting .
  - 28 SLEEP**  
Set the sleep timer.
- NOTE**  
\* "0 - 9", "🔇", "➡" are used by string input like a mobile phone.

## CHAPTER 3. DIMENSIONS

### [1] DIMENSIONS

#### Dimensional drawings

Unit MM

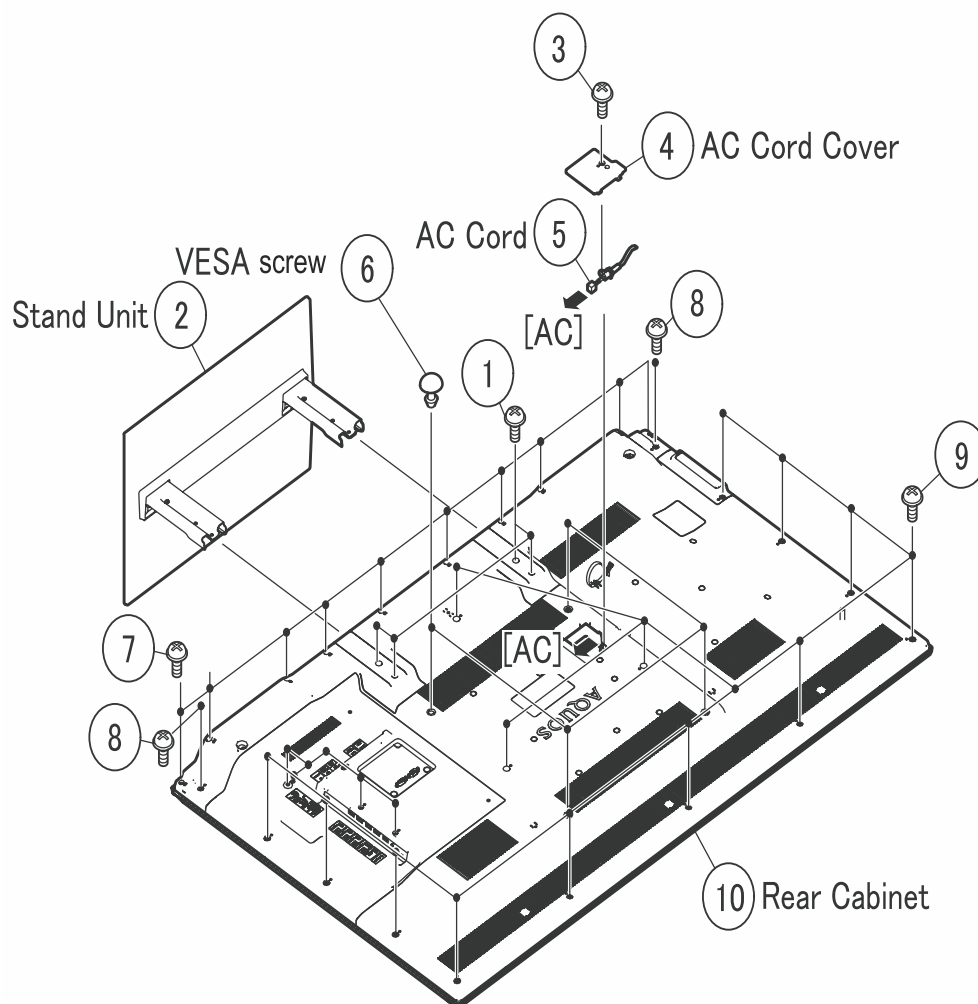


## CHAPTER 4. REMOVING OF MAJOR PARTS

### [1] REMOVING OF MAJOR PARTS

#### 1. Removing of Stand Unit and Rear Cabinet.

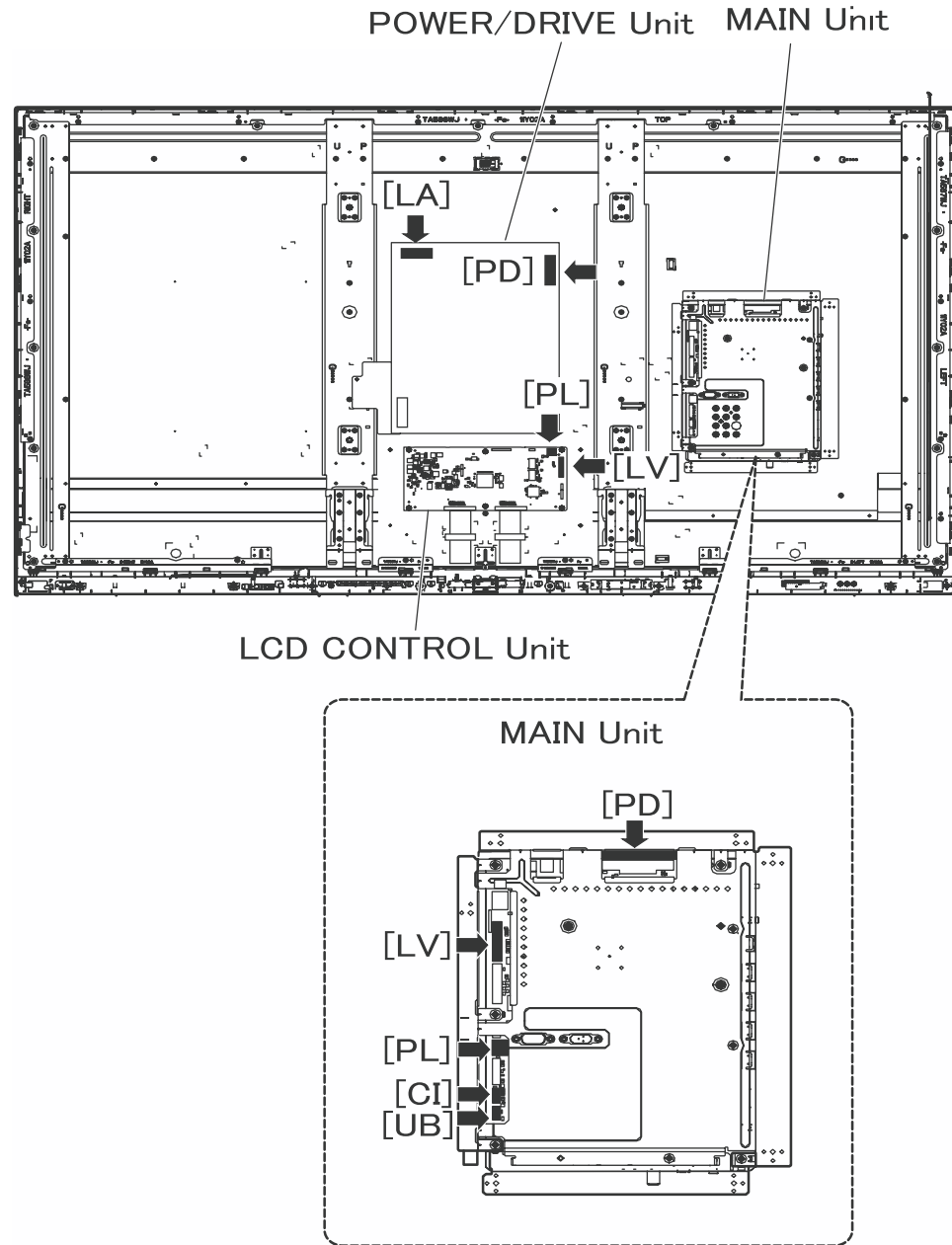
1. Remove the 4 lock screws ① and detach the Stand Unit ②.
2. Remove the 1 lock screw ③ and detach the AC Cord Cover ④.
3. Disconnect AC wire and detach the AC Cord ⑤.
4. Remove the 4 VESA screws ⑥, 10 lock screws ⑦, 2 lock screws ⑧, 18 lock screws ⑨ and detach the Rear Cabinet ⑩.





### 3. Removing of Connectors

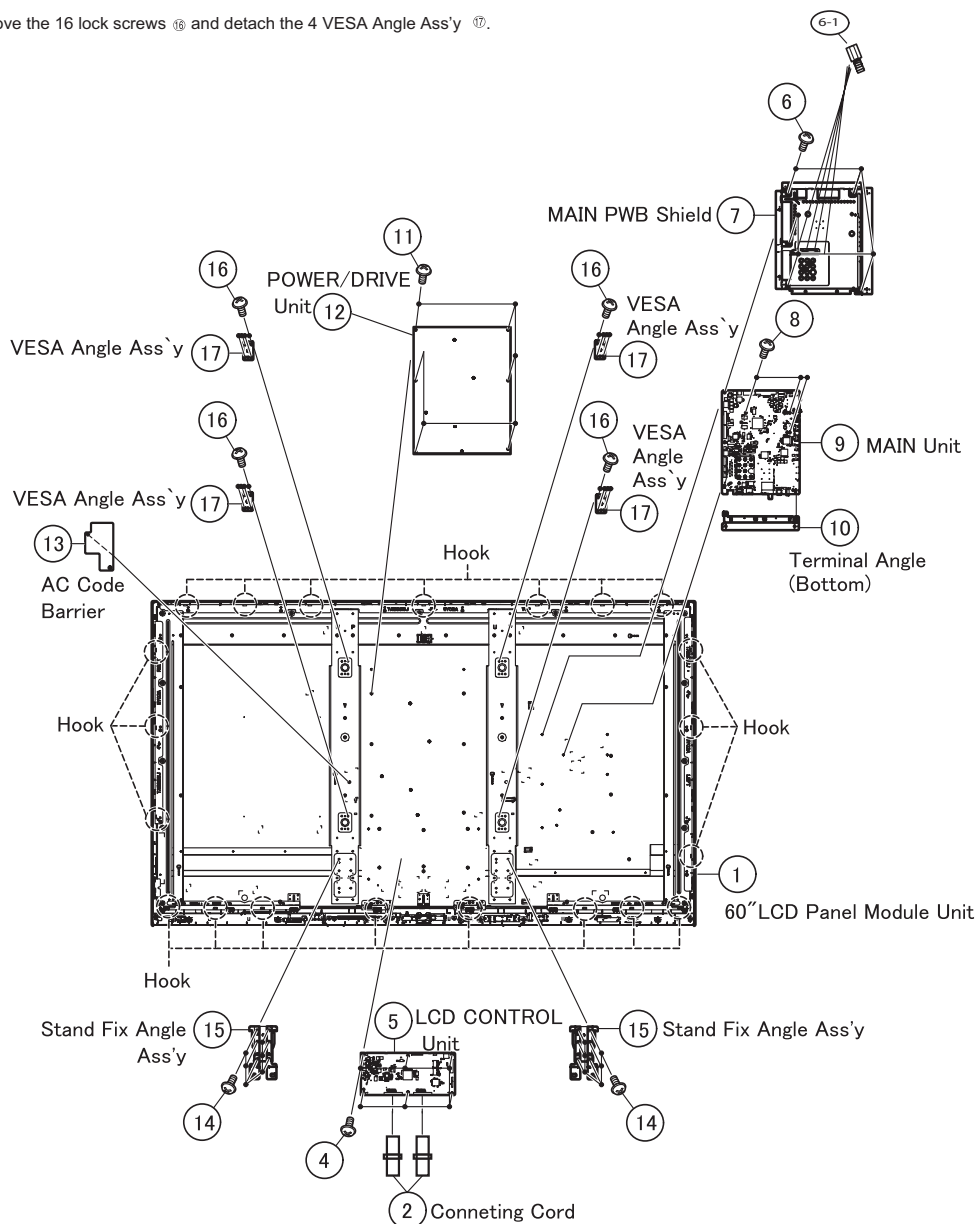
1. Disconnect the following connectors from the MAIN Unit. (PD, LV, PL, CI, UB)
2. Disconnect the following connectors from the POWER/DRIVE Unit. (PD, LA)
3. Disconnect the following connectors from the LCD CONTROL Unit. (LV, PL)





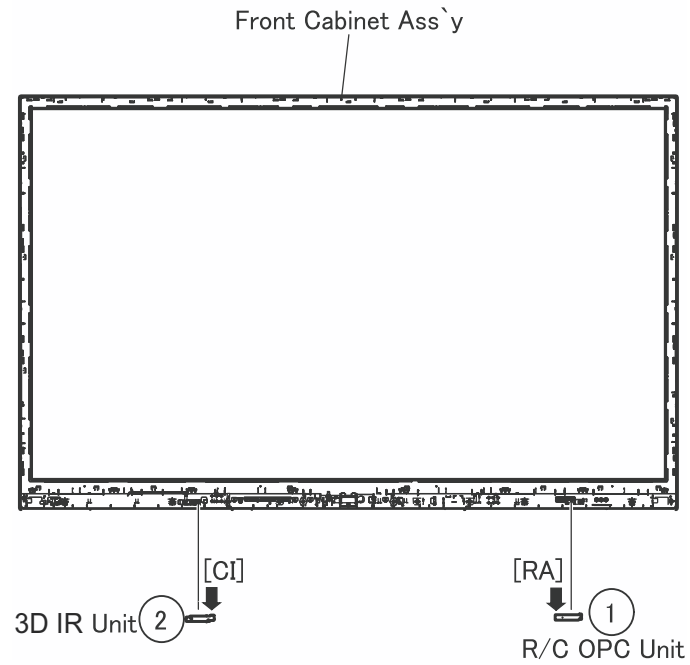
#### 4. Removing of 60" LCD Panel Module Unit, LCD CONTROL Unit, MAIN Unit, POWER/DRIVE Unit.

1. Remove the 21 Hooks and detach the 60" LCD Panel Module Unit ①.
2. Remove the 2 Connecting Cords ②, 6 lock screws ④ and detach the LCD CONTROL Unit ⑤.
3. Remove the 5 lock screws ⑥ and remove hex screw ⑥-1 and detach the MAIN PWB shield ⑦.
4. Remove the 3 lock screws ⑧ and detach the MAIN Unit ⑨ and Terminal Angle (Bottom) ⑩.
5. Remove the 6 lock screws ⑪ and detach the POWER/DRIVE Unit ⑫ and AC Cord Barrier ⑬.
6. Remove the 12 lock screws ⑭ and detach the 2 Stand Fix Angle Ass'y ⑮.
7. Remove the 16 lock screws ⑯ and detach the 4 VESA Angle Ass'y ⑰.



**5. Removing of R/C OPC Unit, 3D IR Unit.**

1. Detach the R/C OPC Unit ①.
2. Disconnect the RA wire.
3. Detach the 3D IR Unit ②.
4. Disconnect the wire.



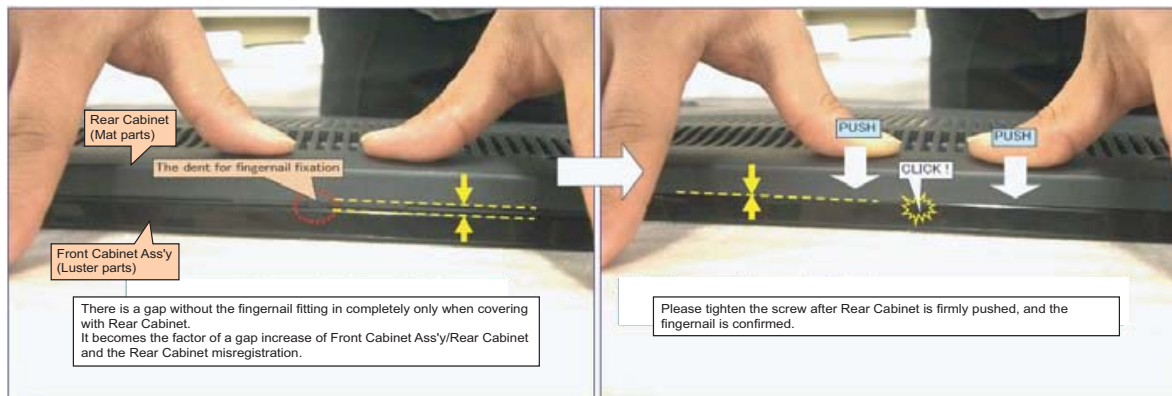
## [2] PRECAUTIONS FOR ASSEMBLY

### [Precautions when fixing the Rear Cabinet]

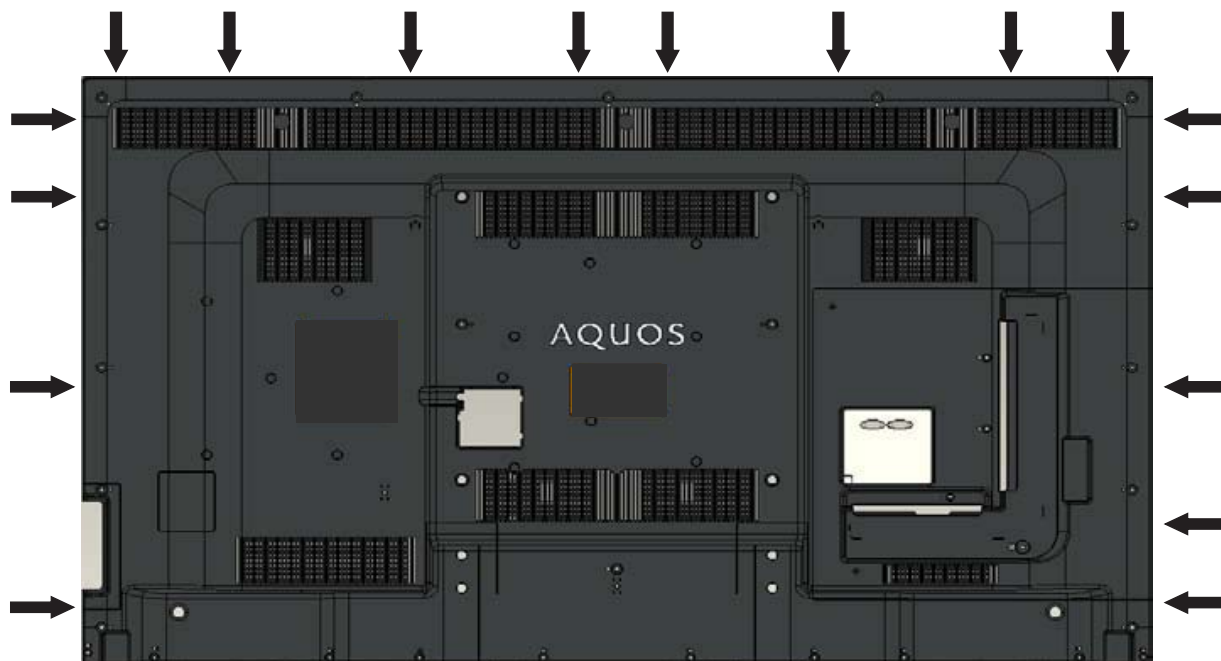
When fixing the Rear Cabinet, be careful not to catch the backlight LED harness, speaker harness and other harnesses in it.

- The hooks on the external wall of the Rear Cabinet are fitted in the Front Cabinet Ass'y. After putting the Rear Cabinet in place, fit the hooks securely; then tighten the screws.

### (Work method of Rear Cabinet fixation)



### (Front Cabinet Ass'y/Rear Cabinet fingernail fixation place)



### [3] THE way of detaching Rear Cabinet

#### [Precaution when removing the rear cabinet]

If the rear cabinet is removed with the set upright, the speakers may fall; it results in connector disconnection. Therefore, never remove the rear cabinet with the set upright.

Be sure to remove the rear cabinet with the screen side down.



#### [Precaution when mounting the rear cabinet]

Put the speakers in place with the screen side down, and attach the rear cabinet.

Since the speakers are fixed by the rear cabinet, they cannot be fixed without the rear cabinet.

## CHAPTER 5. ADJUSTMENT

### [1] ADJUSTMENT

#### [1] ADJUSTMENT PROCEDURE

The adjustment values are set to the optimum conditions at the factory before shipping. If a value should become improper or an adjustment is required due to part replacement, make an adjustment according to the following procedure.

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

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

MAIN Unit: DKEYM953FMH2: LC-60LE640X

- When replacing the LCD control PWB, perform the VCOM adjustment.

##### 2. Upgrading of each microprocessor software

CAUTION: Never "POWER OFF" the unit when software upgrade is ongoing.

Otherwise the system may be damaged beyond recovery.

###### 2.1. Software version upgrade

The model employs the following software.

- Main software

LC-60LE640X : please use a software version after LEON\_LE640X\_xxx.USB

- Monitor microprocessor software (please use a software version after CDIZ\_LE735x\_xxx.USB and CDZTALExxx.SMB.)

The main software, monitor microprocessor software can be upgraded by using a general-purpose USB Memory.

The followings are the procedures for upgrading, explained separately for the main software, monitor microprocessor software.

###### 2.2. Main software version upgrade

###### 2.2.1 Get ready before you start

- USB Memory of 128MB or higher capacity.
- PC running on Windows 98/98SE/ME/2000/XP operating system.
- USB Memory reader/writer or PC with a USB port.
- The file system of a USB memory is FAT. (FAT32 supports)
- Use the USB memory without other functions. (lock and memory reader...etc)

###### 2.2.2 Preparations

To upgrade the main software, it is necessary to get ready the USB Memory for version upgrade before you start.

Follow the steps below and create the USB Memory for version upgrade.

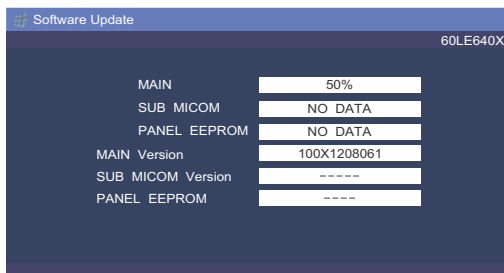
1. Copy the file LEON\_LE640x\_xxx.USB for version upgrade to the root directory (folder) of the USB Memory.

NOTE: In the USB Memory drive, do not store other folders or unrelated files, or more than one file for version upgrade.

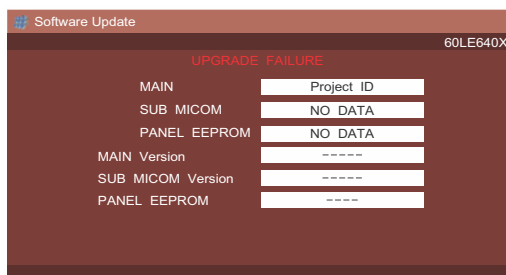
Now the USB Memory for version upgrade is ready.

### 2.2.3 How to upgrade the software

1. Unplug the AC cord.
2. Insert the USB Memory for version upgrade into USB1.
3. Plug in the AC cord with power button pressed down.
4. After 5 seconds, unpress the power button.
5. After the unit startup, the system upgrade screen as shown below within 20-40 seconds.

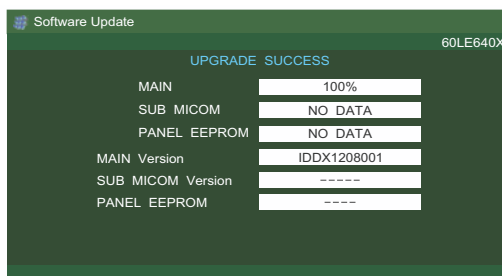


6. Even a single failure in the process will trigger the upgrade failure screen.



NOTE: In the event of a failure, repeat the upgrade process. If the process repeatedly fails, it is likely that the hardware need fixing.

7. Upon completion of the whole process, the upgrade success screen as shown below appears. You can check the new software version on this screen. The version information appears after the upgrade is complete.



8. Unplug the AC cord and remove the USB Memory for version upgrade.
9. Now the software version upgrade is complete.

NOTE: When you are done with the software version upgrade, start the set, go to the top page of the adjustment process screen and check the main software version information.

### 2.3. Monitor microprocessor software version upgrade

Create the USB memory for monitor microprocessor software version upgrade in the same manner as explained in the "Main software version upgrade".

Copy the file LEON\_LE640x\_xxx.USB and LEONSUBxxx.SMB.(named temporarily) for monitor microprocessor software version upgrade to the USB memory.

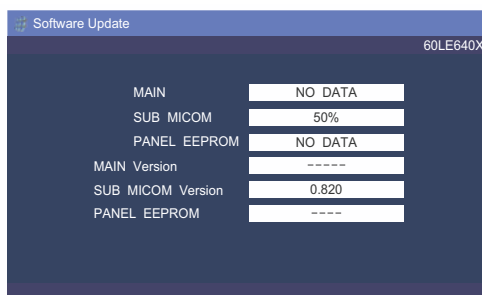
#### 2.3.1 How to upgrade the software

1. Unplug the AC cord.
2. Insert the USB Memory for version upgrade into USB2.
3. Plug in the AC cord with power button pressed down.
4. After 5 seconds, unpress the power button.

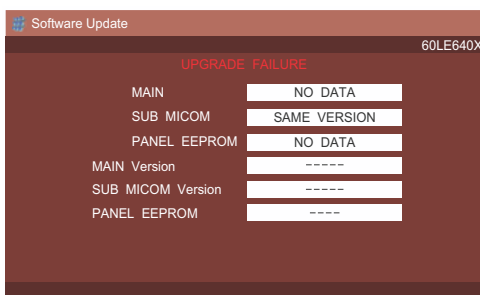
CAUTION: • The moment this operation is done, the upgrading of the monitor microprocessor software starts. While the upgrade is ongoing, never power off the unit. Otherwise the upgrade will fail and the system may be serious damaged beyond recovery (inability to start).

- After the monitor microprocessor software is upgraded, also perform the 'Industry Init'.

5. After the unit startup, the upgrade starts. The power led will blink continuously. Also, an upgrade screen will be shown during a minor upgrade.

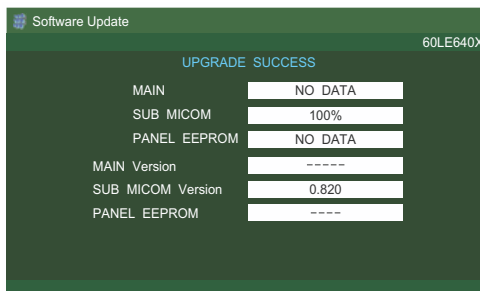


6. If the upgrade fails, power led will stop blinking. Also, the upgrade failure screen will be shown if upgrade screen was shown at 5.



NOTE: In the event of a transient failure, upgrade will be automatically retried up to three times. If the process repeatedly fails, hardware may be the cause.

7. The upgrade success screen will be shown if upgrade screen was shown at 5.



8. Unplug the AC cord and remove the USB Memory for version upgrade.
9. Now the software version upgrade is complete.

NOTE: When you are done with the software version upgrade, start the set, go to the top page of the adjustment process screen and check the monitor microprocessor software version information and panel size information.

### 3. Entering and exiting the adjustment process mode

- Before entering the adjustment process mode, the AV position RESET in the video adjustment menu.
  - While holding down the "VOL(-)" and "INPUT" keys at a time, plug in the AC cord of the main unit to turn on the power.  
The letter "<K>" appears on the screen.
  - Next, hold down the "VOL(-)" and "CH(↘)" keys at a time.  
(The "VOL (—)" and "CH (↘)" keys should be pressed and held until the display appears.)  
Multiple lines of blue characters appearing on the display indicate that the unit is now in the adjustment process mode.  
When you fail to enter the adjustment process mode (the display is the same as normal startup), retry the procedure.
  - To exit the adjustment process mode after the adjustment is done, unplug the AC cord from the outlet to make a forced shutdown. (When the power was turned off with the remote controller, once unplug the AC cord and plug it again. In this case, wait 10 seconds or so before plugging.)
- CAUTION: Use due care in handling the information described here lest your users should know how to enter the adjustment process mode. If the settings are tampered in this mode, unrecoverable system damage may result.

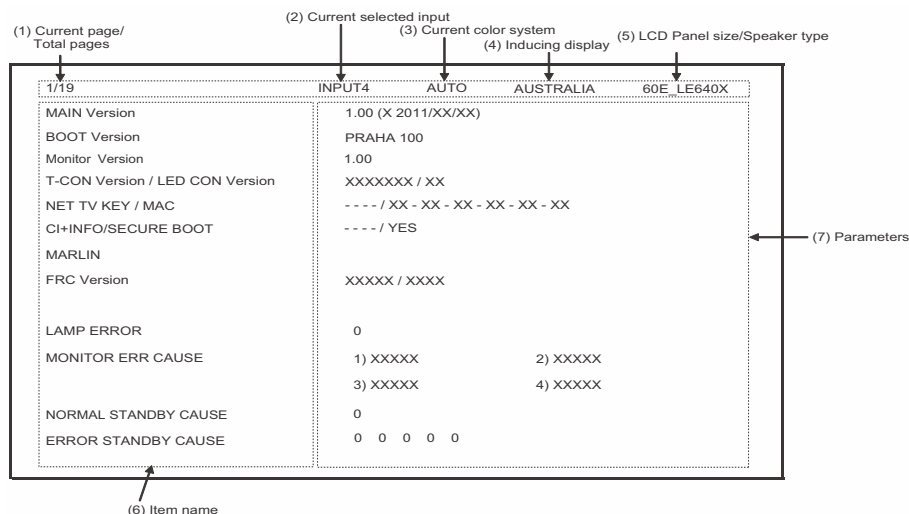
### 4. Remote controller key operation and description of display in adjustment process mode

#### 1) Key operation

Remote controller key	Main unit key	Function
CH (↘ / ↗)	CH (↘ / ↗)	Moving an item (line) by one (UP/DOWN)
VOL (+/-)	VOL (+/-)	Changing a selected item setting (+1/ -1)
Cursor (UP/DOWN)	_____	Turing a page (PREVIOUS/NEXT)
Cursor (LEFT/RIGHT)	_____	Changing a selected line setting (+10/ -10)
INPUT	_____	Input switching (toggle switching)
ENTER	_____	Executing a function

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

#### 2) Description of display



No.	Description	Display specification
(1)	Present page/number of total pages	2char/2char Decimal Number mark.
(2)	Input that has been selected now	TUNER/INPUT1/INPUT2/INPUT3/INPUT4/INPUT5/INPUT6/INPUT7/INPUT8
(3)	Present colour system	AUTO/N358/N443/PAL/SECAM/480i/580i/1080i/50 etc. ...
(4)	Inducing display	AUSTRALIA/NEWZEALAND/GENERAL
(5)	Inch setting and Model name display	Inch setting and Model name display
(6)	Item name	Max. 30 char
(7)	Parameter	Max. 60 char



## 5. List of adjustment process mode menu

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

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
1/20				
	1	MAIN Version	1xxx (xxxxx)	Main software version
	2	BOOT Version	xxxxxxx	BOOT Version.
	3	Monitor Version	xxxxxxx	Monitor software version
	4	T-CON Version/LED CON Version	xxxxxxxx/xxxx	T-CON/H.264 Version
	5	NET TV KEY/MAC	xxx/xxxx	MAC Address.
	6	CI+INFO/SECURE BOOT	xxxxx/YES	CI+ Key Information/SECURE BOOT
	7	MARLIN		
	8	FRC Version	xxxxxxx/xxxxxxx	
	9	TOUCH SENSOR/IR Micon Version	xxxxxxx/xxx	
	10	LAMP ERROR	0	Number of termination due to lamp error.
	11	MONITOR ERR CAUSE	1) xxxxxx 2) xxxxxx 3) xxxxxx 4) xxxxxx	Last error standby cause.
	12	NORMAL STANDBY CAUSE	0	Situation that became standby at the end. (Excluding the error) Refer to 7. STANDBY CAUSE FUNCTIONS.
	13	ERROR STANDBY CAUSE	0 0 0 0	Error standby cause. Refer to 7. STANDBY CAUSE FUNCTIONS.
2/20				
	1	INDUSTRY INIT	Enter	Initialization to factory settings execution.
	2	INDUSTRY INIT (-Public)	OFF	Initialization to factory settings execution. (Public mode is excluded)
	3	PUBLIC MODE	OFF	Public mode ON/OFF setting
	4	Center Acutime	—	Main operating hours.
	5	RESET	OFF	Main operating hours reset.
	6	Backlight Acutime	—	Backlight operating hours.
	7	RESET	OFF	Backlight operating hours reset.
	8	LAMP ERROR RESET	OFF	Lamp error reset.
	9	ADJ PARAM SET	Enter	ADJ PARAM SET
	10	VIC XPOS	0	X-coordinate setting for VIC READ
	11	VIC YPOS	0	Y-coordinate setting for VIC READ
	12	VIC SIGNAL TYPE	MAIN	Signal type setting for VIC READ
	13	VIC READ	OFF	Picture level acquisition function (Level appears in green on the upper right)
3/20				
	1	TUNER ADJ	Enter	TUNER auto adjustment execution
	2	PAL+TUNER ADJ	Enter	PAL TUNER auto adjustment execution
	3	TUNER ADJ (CA-8CH)	Enter	TUNER auto adjustment execution (CA-8CH)
	4	PAL+TUNER ADJ (CA-8CH)	Enter	PAL TUNER auto adjustment execution (CA-8CH)
	5	TUNER ADJ (SMPTE)	Enter	TUNER auto adjustment execution (SMPTE)
	6	PAL+TUNER ADJ (SMPTE)	Enter	PAL TUNER auto adjustment execution (SMPTE)
	7	TUNER ADJ (SMPTE CH57)	Enter	TUNER auto adjustment execution (SMPTE CH57)
	8	PAL+TUNER ADJ (SMPTE CH57)	Enter	PAL TUNER auto adjustment execution (SMPTE CH57)
	9	TUNER CONTRAST A_GAIN	14	TUNER signal level adjustment
	10	TUNER CONTRAST D_GAIN	4096	TUNER signal level adjustment
	11	TUNER CONTRAST OFFSET	256	TUNER signal level adjustment
4/20				
	1	PAL ADJ	Enter	PAL adjustment
	2	SECAM ADJ	Enter	SECAM adjustment
	3	N358 ADJ	Enter	N358 adjustment
	4	PAL CONTRAST A_GAIN	14	PAL contrast adjustment
	5	PAL CONTRAST D_GAIN	2048	PAL contrast adjustment
	6	PAL CONTRAST OFFSET	256	PAL contrast adjustment
	7	SECAM CONTRAST A_GAIN	14	SECAM contrast adjustment
	8	SECAM CONTRAST D_GAIN	2048	SECAM contrast adjustment
	9	SECAM CONTRAST OFFSET	256	SECAM contrast adjustment
	10	N358 CONTRAST A_GAIN	14	N358 contrast adjustment
	11	N358 CONTRAST D_GAIN	2048	N358 contrast adjustment
	12	N358 CONTRAST OFFSET	256	N358 contrast adjustment

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
5/20				
	1	HDMI CEC TEST	Enter	HDMI CEC test
	2	HDMI EDID WRITE	Enter	HDMI EDID WRITING
	3	INSPECT USB TERM	Enter	Reading inspection of USB memory terminal
	4	MONIDATA READ [TEMP/OPC]	OFF	MONITOR Temperature/OPC Acquisition tool.
	5	CAUSE RESET	Enter	Reset of standby cause
6/20				
	1	COMP15K ALL ADJ	Enter	Component 15K picture level adjustment
	2	COMP15K MAIN Y GAIN	140	Y GAIN adjustment value
	3	COMP15K MAIN CB GAIN	150	Cb GAIN adjustment value
	4	COMP15K MAIN CR GAIN	150	Cr GAIN adjustment value
	5	COMP15K Y OFFSET	192	Y OFFSET adjustment value
	6	COMP15K CB OFFSET	128	Cb OFFSET adjustment value
	7	COMP15K CR OFFSET	128	Cr OFFSET adjustment value
	8	COMP 15K A-CLAMP	0	A-CLAMP adjustment value
7/20				
	1	HDTV ADJ	Enter	HDTV video level adjustment
	2	HDTV Y GAIN	140	HDTV Y GAIN adjustment value
	3	HDTV CB GAIN	150	HDTV Cb adjustment value
	4	HDTV CR GAIN	150	HDTV Cr adjustment value
	5	HDTV Y OFFSET	192	HDTV Y OFFSET adjustment value
	6	HDTV CB OFFSET	128	HDTV Cb OFFSET adjustment value
	7	HDTV CR OFFSET	128	HDTV Cr OFFSET adjustment value
	8	HDTV A-CLAMP	0	HDTV A - CLAMP adjustment value
8/20				
	1	ANALOG PC ADJ	Enter	DVI ANALOG video level adjustment
	2	R OFFSET	64	R CUTOFF adjustment value
	3	G OFFSET	64	G CUTOFF adjustment value
	4	B OFFSET	64	B CUTOFF adjustment value
	5	R GAIN	44	R DRIVE adjustment value
	6	G GAIN	44	G DRIVE adjustment value
	7	B GAIN	44	B DRIVE adjustment value
	8	RGB A-CLAMP	0	RGB A-CLAMP adjustment value
9/20	1	VCOM ADJ	63	Common bias adjustment
10/20				
	1	DDR2 CHECK	Enter	Execute DDR check
	2	BA[1:0]	0x00	
	3	ADDR[13:0]	0x0000	
	4	DQ[15:0]	0x0000	
	5	FRC ON/OFF	Enter	Execute FRC ON/OFF
11/20				
	1	R GAIN (LO)	0	R DRIVE adjustment value
	2	G GAIN (LO)	0	G DRIVE adjustment value
	3	B GAIN (LO)	0	B DRIVE adjustment value
	4	R GAIN (HI)	0	R DRIVE adjustment value
	5	G GAIN (HI)	0	G DRIVE adjustment value
	6	B GAIN (HI)	0	B DRIVE adjustment value
12/20				
	1	MONITOR TIME OUT	ON	Monitor and the main communication time-out setting
	2	MONITOR MAX TEMP	49	MONITOR MAX temperature setting
	3	MONITOR EEP READ/WRITE	WRITE	MONITOR EEPROM READ/WRITE Setting/execution
	4	MONITOR EEP ADR	0x 0	MONITOR EEPROM arbitrary addressing
	5	MONITOR EEP DATA	0x 0	MONITOR EEPROM arbitrary data specification
13/20				
	1	LCD TEST PATTERN		
	2	LCD TEST PATTERN 1	NOT SUPPORT	
	3	LCD TEST PATTERN 2	OFF	Pattern with built-in LCD controler display
	4	LCD TEST PATTERN 3	NOT SUPPORT	
	5	LCD TEST PATTERN 4	NOT SUPPORT	

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
14/20	1	T-CON VERSION EXT.1	xxxxxx	
	2	T-CON VERSION EXT.2	xxxxxx	
	3	T-CON VERSION EXT.3		
	4	T-CON VERSION EXT.4		
15/20	1	3D HDMI FPGA Version	xxxx	
	2	2D→3D FPGA Version	xxxxxxx	
	3	3D LED BRIGHTNESS	90	
	4	3D IR EMITTER CONTROL	ON	
16/20	1	CROSS TALK ADJ MODE	OFF	
	2	CROSS TALK1		
	3	CROSS TALK2		
	4	CROSS TALK3		
	5	CROSS TALK4		
	6	CROSS TALK GAIN1		
	7	CROSS TALK GAIN2		
	8	CROSS TALK GAIN3		
17/20	1	WIFI SSID 2.4GHz	AF00	
	2	WIFI SSID 5GHz	AF50	
	3	WIFI RSSI 2.4GHz	-50	
	4	WIFI RSSI 5GHz	-50	
	5	WIFI TIME 2.4GHz	10	
	6	WIFI TIME 5GHz	10	
	7	WIFI RSSI TEST	2.4GHz and 5GHz RSSI(Passive)	
	8	WIFI RSSI RESULT	2.4GHz ERR - 1, 5GHz ERR - 1	

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
18/20				
	1	READ/WRITE	READ	Read/Write
	2	SLAVE/ADDRESS	SLAVE0	Slave address
	3	REGISTER ADDRESS	0x 0	Register address
			0x 0	
	4	WRITE DATA	0x 0	Writing data
			0x 0	
	5	READ DATA	0x 0	Reading data
			0x 0	
19/20				
	1	ERROR STANDBY CAUSE 1	NO RECORD	ERROR STANDBY CAUSE
	2	ERROR STANDBY CAUSE 2	NO RECORD	
	3	ERROR STANDBY CAUSE 3	NO RECORD	
	4	ERROR STANDBY CAUSE 4	NO RECORD	
	5	ERROR STANDBY CAUSE 5	NO RECORD	
	6	STANDBY CAUSE RESET	OFF	Reset stand by cause.
20/20				
	1	EEP SAVE	OFF	Writing setting values to EEPROM.
	2	EEP RECOVER	OFF	Reading setting values from EEPROM.
	3	MONITOR ERROR CAUSE RESET	OFF	Reset of monitor error cause
	4	MODEL NAME	LE640X	MODEL NAME
	5	PANEL SIZE	60	Panel size setting.
	6	VER UP FLAG ENABLE	Enter	
	7	PANEL LIMIT	ON	
	8	PANEL RANGE LIMIT	230	
	9	SHORT CHECK MODE	Enter	Check LED Back light
	10	SHORT CHECK CURRENT	60	
	11	PRODUCT EEP ADR	0x 0	Don't touch when serving (for producer of factory)
	12	PRODUCT EEP DATA	0x 0	Don't touch when serving (for producer of factory)
	13	PRODUCT FACTORY	255	Don't touch when serving (for producer of factory)
	14	TEST NETWORK UPDATE	NO	

## 6. Special features

### \* STANDBY CAUSE (Page 1/20)

Display of a cause (code) of the last standby

The cause of the last standby is recorded in EEPROM whenever possible.

Checking this code will be useful in finding a problem when you repair the troubled set.

### \* EEP SAVE (Page 20/20)

Storage of EEP adjustment value

### \* EEP RECOVER (Page 20/20)

Retrieval of EEP adjustment value from storage area

## 7. STANDBY CAUSE FUNCTIONS

This model is equipped with a STANDBY CAUSE FUNCTIONS which stores the cause of why the unit is turned off and displays it on adjustment process mode.

### 1. NORMAL STANDBY CAUSE

ERROR CODE here indicates cause of standby in normal operation or Function of the Unit.

No display when the unit is turned off with R/C.

Only the latest cause is indicated.

### 2. ERROR STANDBY CAUSE

ERROR CODE here indicates cause of Error in the unit.

It also indicates accumulated operating times of the unit.

The last five histories are displayed.

1)-5) five histories 1) is the latest.

When there is no error, error code is '0' and no characters appear.

### 3. MONITOR ERROR CAUSE

When the monitor micom detects an error, ERROR CODE is displayed.

The number of flashing Power LED and OPC LED indicates location of error detected.

This number stores the latest four contents of the error. '0' is displayed when no error.

#### • NORMAL STANDBY CAUSE

Display Code	Indication	Description
2	NO_OPERT	in the cause of "no operation off"
3	NO_SIGNA	in the cause of "no signal off"
6	SLEEP_TM	in the cause of "SLEEP timer"
8	OFF_232C	in the cause of command by RS-232C

#### • ERROR STANDBY CAUSE

Display Code	Indication	Description
1A	E_MONITR	in the cause of monitor trouble detected
1B	E_CVICBT	in the cause of driver boot error
22	E_TCNERR	in the cause of software abnormality of LCD controller
48	E_MRESET	in the cause of failure of resetting menu settings (Initial Setup - Reset)
50	E_TCNF_S	in the cause of TCON FPGAStatus error
54	E_TCON_E	in the cause of fatal error by TCON hanging up

#### • MONITOR ERROR CAUSE

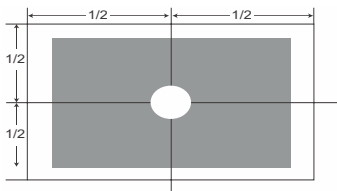
Display	Error Reason
02	Initial Communication Error 2 Cannot receive initial communication from main CPU
03	Initial Communication Error 3 Receive initial communication only
04	Initial Communication Error 4 To the communication setting reception
05	Initial Communication Error 5 To the initialization completion reception
06	Initial Communication Error 6 To the notice of version reception
07	Initial Communication Error 7 To the notice of start information reception
08	Initial Communication Error 8 To the start information answer reception
09	Initial Communication Error 9 To the time-out setting reception
0A	Communication Error A Request Time-out
0B	Communication Error B Restart Time-out
0C	Communication Error C End sequence Time-out
0D	Communication Error D Reserve start Time-out when End sequence
0E	Communication Error E Download Start Time-out
0F	Communication Error F Get Time Start Time-out

Display	Error Reason	
11	Communication Error H	Regular communication Time-out
16	LCD Module Error	Lamp Error
1A	Other Error 2	Monitor Temperature Error
1E	Power supply Error 2	D_POW(DET_13V) Error
1F	Power supply Error 3	D_POW(DET_D3V3) Error
20	Power supply Error 4	ADM_POW(DET_ADM) Error
21	Power supply Error 5	Panel Power Error
23	Other Error 3	Error Standby request from Main CPU

## 8. Panel size and model setting

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Panel size setting	<ul style="list-style-type: none"> <li>Page 20/20 of the process adjustment mode.</li> <li>To cancel it, turn off the power by pull out the AC cord.</li> </ul>	1) Use the cursor keys (▲/▼) and CH keys (↖/↗) of R/C to select the item [PANEL SIZE] on the page 23/23. 2) Verify that the panel size is displayed. 3) If the size doesn't match, select the values of the panel size with the VOL keys (+/-). 4) After selection in Step 3), press the OK key, and it is completed with OK displayed.
2	Model setting		1) Use the cursor keys (▲/▼) and CH keys (↖/↗) of R/C to select the item [MODEL NAME] on the page 23/23. 2) Verify that the Model name is displayed. 3) If the Model name doesn't match, select the values of the Model name with the VOL keys (+/-). 4) After selection in Step 3), press the OK key, and it is completed with OK displayed.

## 9. LCD Panel Adjustment

	Adjustment item	Adjustment conditions	Adjustment procedure
1	Opposite bias adjustment (LCD module adjustment item)	Adjustment in the center position of the panel	1. Enter the process mode using the process adjustment remote control. 2. Select [VCOM ADJ] using the Channel ↖/↗ keys on the remote control. 3. Press the Enter key to check that the pattern for adjustment is displayed. 4. Make adjustment so that the flicker located in the center of the screen is minimized using the Volume +/- keys on the remote control. 5. If the optimum condition is obtained in step 4, press the Enter key to turn off the pattern. CAUTION: * Make adjustment with no ANT signal (since the brightness is changed by the active backlight). [Adjustment position] <div style="text-align: center;">  </div>

## 10. Video signal adjustment procedure

The adjustment process mode menu is listed in Section 5.


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

- Composite signal PAL/SECAM : 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
- Analogue RGB : RGB level : 0.7Vp-p ± 0.02Vp-p (Pedestal to white level)
- 15K component signal (50 Hz) : 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-p
- Composite signal NTSC : 0.714Vp-p ± 0.02Vp-p (Pedestal to white level)

### 10.1. Entering the adjustment process mode

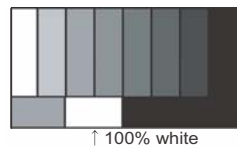
Enter the adjustment process mode according to Section 3.

**10.2. PAL signal adjustment**

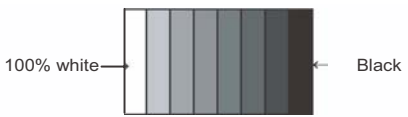
	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL Full field colour bar composite signal  [Terminal] INPUT 6 video input	<ul style="list-style-type: none"> <li>Feed the PAL full field colour bar signal (75% colour saturation) to INPUT2 video input.</li> </ul> <p>[VIDEO input signal]</p> 
2	Auto adjustment performance	Adjustment process [PAL ADJ] page 4/20	Bring the cursor on [PAL ADJ] and press [ENTER]. [PAL ADJ OK] appears when finished.

\* **ATTENTION:** Please execute [3. TUNER adjustment] afterwards if you adjust [2. PAL signal adjustment] after all adjustments are completed.


**10.3. TUNER adjustment**

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] PAL split field colour Bar RF signal UV  [Terminal] TUNER	<ul style="list-style-type: none"> <li>Feed the PAL Split Field colour bar signal to TUNER.</li> <li>Make sure the PAL colour bar pattern has the sync level of 7:3 with the picture level.</li> </ul> <p>[E-12CH]</p> 
2	Auto adjustment performance	Adjustment process [TUNER ADJ] page 3/20	Bring the cursor on [TUNER ADJ] and press [ENTER]. [TUNER ADJ OK] appears when finished.


**10.4. NTSC signal adjustment**

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] N358 Full field colour Bar Signal  [Terminal] INPUT6 video input	<ul style="list-style-type: none"> <li>Feed the NTSC full field colour bar signal (75% colour saturation) to INPUT2 video input.</li> </ul> <p>[VIDEO input signal]</p> 
2	Auto adjustment performance	Adjustment process [N358 ADJ] page 4/20	Bring the cursor on [N358 ADJ] and press [ENTER]. [SECAM ADJ OK] appears when finished.


## 10.5. SECAM adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] SECAM Full field colour Bar Signal  [Terminal] INPUT 6 video input	<ul style="list-style-type: none"> <li>Feed the SECAM full field colour bar signal (75% colour saturation) to INPUT 6 video input.</li> </ul> <p>[VIDEO input signal]</p> 
2	Auto adjustment performance	Adjustment process [SECAM ADJ] page 4/20	Bring the cursor on [SECAM ADJ] and press [ENTER]. [SECAM ADJ OK] appears when finished.

## 10.6. ADC adjustment (Component 15K)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] COMP15K, 50Hz (576i) 100% Full field colour bar Signal  [Terminal] INPUT3 COMPONENT IN	<ul style="list-style-type: none"> <li>Feed the COMPONENT 15K 100% full field colour bar signal (100% colour saturation) to INPUT3 COMPONENT IN.</li> </ul> 
2	Auto adjustment performance	Adjustment process [COMP15k ALL ADJ] page 6/20	Bring the cursor on [COMP15k ALL ADJ] and press [ENTER] [COMP15k ALL ADJ] [OK] appears when finished.

## 10.7. PC signal adjustment (ANALOG D-sub 15pin)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Setting	[Signal] XGA, 60Hz 100% Full Field Colour Bar Signal  [Terminal] PC IN	<ul style="list-style-type: none"> <li>Feed the XGA 60Hz 100% full field colour bar signal (100% colour saturation) to PC IN.</li> </ul> 
2	Auto adjustment performance	Adjustment process [ANALOG PC ADJ] menu page 8/20	Bring the cursor on [ANALOG PC ADJ] and press [ENTER]. [ANALOG PC ADJ OK] appears when finished.



## 11. White Balance Adjustment

For white balance adjustment, adjust the offset values on pages 11/20.

[Condition of the unit for inspection] : Modulated light (+16), Colour temperature (High)  
 AV MODE: DYNAMIC  
 Active Backlight: OFF  
 OPC: OFF  
 Asing Time: Min, 60 minute

[Input signal condition] : HDMI 1080i 15IRE (LO), 78IRE (HI)

[Adjustment reference device] : Minolta CA-210

[Adjustment procedure]

- 1) Display the current adjustment status at R/G/B\_GAIN (HI). (Page 11/20 of process adjustment)

The signal of 78IRE is input.

- 2) Read the value of the luminance meter.  $x = 0.265$ ,  $y = 0.260$

- 3) Change R\_GAIN (HI)/B\_GAIN (HI) (Adjustment offset value) on page 11/20 of process adjustment so that the values of the luminance meter approach  $x = 0.265$  and  $y = 0.260$ .

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

- 4) Display the adjustment status of the current R/G/B\_GAIN (LO).

The signal of 15IRE is input.

Change R\_GAIN (LO)/B\_GAIN (LO) (adjustment offset value) on page 11/20 of process adjustment so that the values of the luminance meter approach  $x = 0.265$  and  $y = 0.2260$ .

- 5) Both HI and LO are repeating the step from 1 to 4 until becoming an aim value.

[Adjustment reference standard value]

Adjustment spec  $\pm 0.002$                       Inspection spec  $\pm 0.004$  (point LO)

Adjustment spec  $\pm 0.001$                       Inspection spec  $\pm 0.002$  (point HI)

- 6) After completing adjustments, set EEP SAVE (20/20) to ON in the process menu to save the white balance adjustment value.

## 12. Key writing

### 12.1. EDID writing (Main PWB: QPWBXF953WJ\*\*)

	Adjustment point	Adjustment conditions	Adjustment procedure
1	HDMI EDID writing ANALOG RGB EDID writing (Main PWB)	Process mode Model discrimination check	1) Enter the process mode. 2) Point the cursor to [HDMI EDID WRITE] and press the [ENT] key. The writing is complete when [OK] is displayed. (If not written, HDMI does not function.) <b>CAUTION:</b> Perform the data writing after setting the model discrimination. The data based on the model discrimination information is recorded in EEPROM.

### 12.2. MAC key writing (MAIN PWB: QPWBXF953WJ\*\*)

- Write the MAC key data on XXXX mounted on the main PWB.
- Carry out thorough data management to avoid redundant writing of data.  
If the IC where data is written is damaged, replace the PWB since only the IC cannot be changed.

## 13. Factory setting

After completing the factory setting, pull out the AC cord to complete the setting.

**CAUTION:** Do not turn on the power after completing the factory setting. If the power is turned on, configure the factory setting again.

	Adjustment point	Adjustment conditions	Adjustment procedure																										
1	Factory setting	Complete the setting by pulling out the AC cord.	<div><div><div><div>* LC-60LE640X</div><div>•Point the cursor to [INDUSTRY INIT], set to “ON” using [+] / [-] of the [VOL] key, and press the [ENT] key.</div><div>* In LC-60LE640X, please confirm the country following to the below list.</div></div></div><div><table><tr><th>Setting</th><th>Saffix</th><th>Country</th></tr><tr><td>AUSTRALIA</td><td>DX</td><td>Australia</td></tr><tr><td>NEWZEALAND</td><td>DD</td><td>New Zealand</td></tr><tr><td rowspan="8">GENERAL</td><td>DZ</td><td>Singapore / India</td></tr><tr><td>DJ</td><td>Malaysia</td></tr><tr><td>DI</td><td>Indonesia</td></tr><tr><td>DY</td><td>Vietnam</td></tr><tr><td>DP</td><td>Philippine</td></tr><tr><td>DB</td><td>Thailand</td></tr><tr><td>DN</td><td>Middle and Near East</td></tr><tr><td>DM</td><td>Middle and Near East</td></tr></table></div><div><p>The version confirmation screen appears on the green screen. It is completed when [SUCCESS] is displayed at the top.</p><p>(If error occurs, [ERROR] is displayed on the red screen.)</p><p>•Turn off the AC power.</p></div><div><p>The following items are initialized when configuring the factory setting.</p><ol style="list-style-type: none"><li>1) User set value</li><li>2) Channel data (broadcasting frequency, etc.)</li><li>3) Password setting value</li><li>4) Operating time</li><li>5) StandbyCause</li><li>6) Auto installation flag</li><li>7) V-CHIP block setting value</li></ol></div></div>	Setting	Saffix	Country	AUSTRALIA	DX	Australia	NEWZEALAND	DD	New Zealand	GENERAL	DZ	Singapore / India	DJ	Malaysia	DI	Indonesia	DY	Vietnam	DP	Philippine	DB	Thailand	DN	Middle and Near East	DM	Middle and Near East
Setting	Saffix	Country																											
AUSTRALIA	DX	Australia																											
NEWZEALAND	DD	New Zealand																											
GENERAL	DZ	Singapore / India																											
	DJ	Malaysia																											
	DI	Indonesia																											
	DY	Vietnam																											
	DP	Philippine																											
	DB	Thailand																											
	DN	Middle and Near East																											
	DM	Middle and Near East																											

## 14. Software version

- Main microprocessor  
LC-60LE640X : LEON\_LE640X\_xxx.USB
- Monitor microprocessor  
LEONSUBxxx.SMB

## [2] PUBLIC MODE SETTING PROCEDURE

### 1. How to start Public Mode

Starting the Public Mode

- There is one following ways to display the PUBLIC Mode setting screen.

#### 1) Method of needing password

- a) Plug AC cord and turn on TV. Then touch the power key for 5 seconds after picture displayed.

Note: Picture will disappear when you touch the power key, but keep touching it until the center icon LED blinks.

- b) While holding down the "INPUT" and "Volume (+)" keys on the set at once, touch the power supply key on the set.

Please separate the finger from the power supply key when boot-up is confirmed with lighting of a central icon etc.

After a while, value of Public Mode appears on the screen.

- c) Display the Pass Word input screen.

Operation procedure

- The initial input position is the digit at the left end.
- For the numeric keys "0" to "9" of R/C, key input is accepted.  
Input of the other keys is prohibited.
- Change "—" to "\*" by inputting the numeric key at the input position, and shift the input position rightward one digit.
- When three digits are completely input, the Pass Word is judged.

- d) Check the Pass Word by inputting three digits.

If the Pass Word "0" "2" "7", it shifts to the PUBLIC Mode setting screen.

In another case, the screen is erased, and it operates in the ordinary mode.

### 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 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 on screen.

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 “ENTER” key (remote controller and set).

PUBLIC MODE	
POWER ON FIXED	[VARIABLE ]
MAXIMUM VOLUME	[ 60 ]
VOLUME FIXED	[VARIABLE ]
VOLUME FIXED LEVEL	[ 20 ]
RC BUTTON	[RESPOND ]
PANEL BUTTON	[RESPOND ]
MENU BUTTON	[RESPOND ]
AV POSITION FIXED	[VARIABLE ]
ON SCREEN DISPLAY	[YES ]
INPUT MODE START	[NORMAL ]
INPUT MODE FIXED	[VARIABLE ]
LOUD SPEAKER	[ON ]
RC_PATH_THROUGH	[OFF ]
232C POWON	[DISABLE ]
PUBLIC MODE	[OFF ]
RESET	
EXECUTE	

## 5. On Setting Items

\* "EZ-SETUP" discussed below indicates "EZ-SETUP" after the first power-on".

### 1) POWER ON FIXED

Selection	Selection between "Variable" and "Fixed" (loop provided)
Default	– (Variable)
Explanation	In "Fixed" setting, the power-off by the power key of the unit is invalidated and the image is kept being received. The power can be turned off by stopping the power supply from AC.
Limit in Setting	Refer to the "Power-On Fixed" sheet.
Exception	None
Remarks	In "Variable" setting, the power operation is in wait for 1 sec. and then turned off when the main power switch is off.

### 2) MAXIMUM VOLUME

Selection	Adjustment from 0 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	
Remarks	When the sound volume is set higher than the MAX setting by the adjusting process, 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", "Fixed", "ACON (AC CTRL)" and "AC/RCON (AC/RC CTRL)" (loop provided)
Default	Variable
Explanation	FIXED: Fixed at the level adjusted for a fixed volume. AC CTRL: Start-up at the level specified for a fixed volume at ACON. AC/RCON CTRL: Start-up at the level specified for a fixed volume at start.
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: Sound volume Up/Down (VOL +/-) [for both remote control and the unit] Mute (MUTE)
Exception	In the item "VOLUME" of adjustment process, the sound volume can be set freely irrespective of this setting.
Remarks	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, it should be set back to the sound volume preset by sound volume fixing level when the adjustment process ends.

### 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".

### 5) RC BUTTON

Selection	Selection between "Respond", "No Respond" and "Limited" (loop provided)
Default	Respond
Explanation	Making the remote controller settings. At the "No Respond" setting, the remote controller keys are disabled. Its power key (reception/standby key) is disabled too. At the "Limited" setting, some channel-related keys alone are operative. All the other remote controller keys (power, volume ▲/▼, channel ▲/▼, light control (brightness sensor), broadcast select) are inoperative.
Limit in Setting	① In "No respond" setting, all the keys (including the power key) are not accepted.
Exception	Adjustment process, 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 provided)
Default	Respond
Explanation	All the operations by keys (except the power key) of the unit can be invalidated.
Limit in Setting	
Exception	Adjustment process, 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 provided)
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 are invalidated.
Limit in Setting	
Exception	Adjustment process, 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 provided)
Default	Yes
Explanation	At the "No" setting, the following items are not displayed on screen: register, setting, adjustment menu, channel call and volume bar. On the wide-screen models, an input selection is immediately made because the menu is not displayed. At the "Limited" setting, some items cannot be displayed on screen. On the Japan-destined models, the channel call "Message" alone cannot be displayed. (This is because the channel call message may be confused with a message being sent from the hotel.) On the North America-destined models, the OSD works the same as at the "No" setting.
Limit in Setting	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. 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. Brightness sensor (BACKLIGHT) and PIC. FLIP
Exception	Such a caution which is displayed independently is displayed as it is. Non-responding signal caution
Remarks	When CC has already been ON, CLOSED CAPTION is displayed.

## 9) INPUT MODE START

Selection	Selection between "Normal", "Air (*)", "INPUT 1/2/3", "PC", "HDMI 1/2/3/4/5", "DVI" (loop provided)
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. In TV mode, the channel to be set follows the last memory and the content of the last memory is included in the notation by options. Ex.) Air (2), Cable (98.1) etc.
Limit in Setting	The display of channel setting menu and the channel setting operation are prohibited.
Exception	
Remarks	In setting at "Normal", the setting of "Input mode fixed" is changed to "Variable" and selection should be prohibited.

## 10)INPUT MODE FIXED

Selection	Selection between "Variable", "Fixed", "ACON (AC CTRL)" and "AC/RCON (AC/RC CTRL)" (loop provided)
Default	– (Variable)
Explanation	At the "Fixed" setting, the TV set gets started with the settings of "Input mode start", and then any other channels and inputs are not accepted. At the "ACON (AC CTRL)" setting, the TV set gets started with the settings of "Input mode start" under AC control. At the "AC/RCON (AC/RC CTRL)" setting, the TV set gets started with the settings of "Input mode start" under either control.
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. ON-timer's (Wake-up timer) channel items are not displayed or the operation is prohibited. (Basically, they are not displayed.) 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 "Normal".

## 11)RC\_PATH\_THROUGH

Selection	Selection between "OFF", "ON: TV RCE" and "ON: TV RCD" (loop provided)
Default	OFF
Explanation	Function to feed the remote controller-received signal to Pin 9 (open) on the RS232C.
Limit in Setting	None
Exception	None
Remarks	None

## 12)AV POSITION FIXED

Selection	Selection between "Variable" and "Fixed" (loop provided)
Default	Variable
Explanation	In case of "Fixed" setting, – Menu "Picture" and "Audio" setting can't be changed like "Dynamic (Fixed)". – When "AV Mode" key is pressed, TV just displays current AV Mode (cannot be changed.).
Limit in Setting	None
Exception	None
Remarks	When receiving with AV Position key, OPC, Dolby key and other direct audio select keys, the current display stays on and no setting can be changed. Even by initializing personal information, the hotel-mode settings are kept intact. In this way, the AV positions, video and audio adjustment settings are not initialized.

## 13)LOUD SPEAKER (ON/OFF)

Selection	Selection between "ON" and "OFF" (loop provided)
Default	ON
Explanation	If "OFF" is selected, TV stops Speaker output even without Headphone connected.
Limit in Setting	None
Exception	None
Remarks	Press the volume UP/DOWN key, and the mute icon appears for 4 seconds. The mute key and audio-related keys are displayed with caution. Usually, the headphones and monitor audio outputs can be adjustable.

## 14)232C POWON

Selection	Selection between "Disable" and "Enable" (loop provided)
Default	Disable
Explanation	In the standby mode, the power-on by the 232C command is enabled or disabled.
Limit in Setting	None
Exception	None
Remarks	None

## 15)PUBLIC MODE (ON/OFF)

Selection	Selection between "ON" and "OFF" (loop provided)
Default	OFF
Explanation	In case of "ON", public mode settings are effected.
Limit in Setting	None
Exception	None
Remarks	The public-mode settings are operable only when this item is set at ON.



### [3] USB Clone Specifications

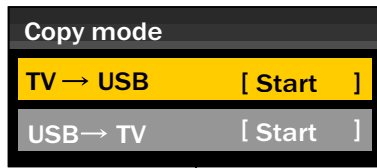
Input "369" as password on the copy mode screen using the same input method as Public Mode on the previous page.

#### 1. Screen Specifications (copy mode <TV USB>)

- TV USB (sucking from TV)

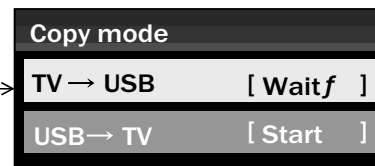
<FIG 1>

\* Do not focus on button before recognition of USB device and use is possible.



Press [ENTER]

<FIG 2>

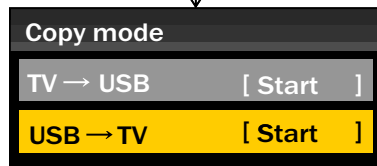


Wait display blinks for 1 second during implementation. Change button to Select color during this time to disable key reception.

Processing successful.

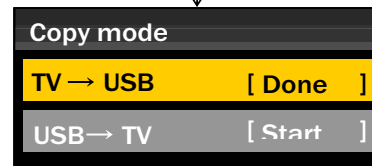
Processing failed or multiple insertion.

<FIG 5>

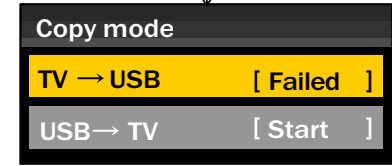


Press [UP] or [DOWN]

<FIG 3>



<FIG 4>



Refer to (USB → TV <writing to TV>).

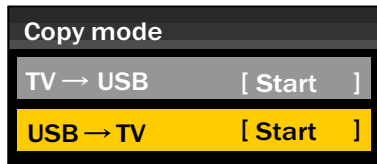
- After finishing processes in FIG 2, return the button to Focus color.
- On USB clone display screen in FIG 1 and FIG 5, key reception is disabled except for Up/Down key and Enter key.
- Key reception is disabled in USB clone display screen in FIG 2 to FIG 4.
- After proceeding to FIG 3, 4, turn off the power with AC OFF.

#### 2. Screen Specifications (copy mode <USB TV>)

- USB TV (writing to TV)

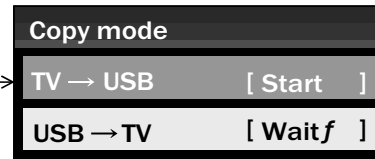
<FIG 1>

\* Do not focus on button before recognition of USB device and use is possible.



Press [ENTER]

<FIG 2>

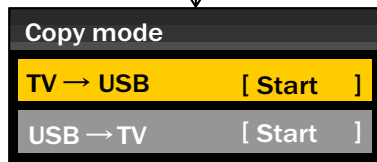


Wait display blinks for 1 second during implementation. Change button to Select color during this time to disable key reception.

Processing successful.

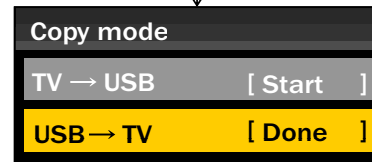
Processing failed or multiple insertion.

<FIG 5>

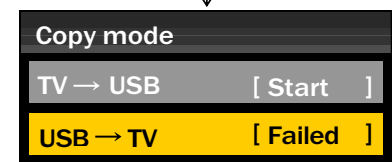


Press [UP] or [DOWN]

<FIG 3>



<FIG 4>



Refer to (TV → USB <sucking from TV>).

- After finishing processes in FIG 2, return the button to Focus color.
- On USB clone display screen in FIG 1 and FIG 5, key reception is disabled except for Up/Down key and Enter key.
- Key reception is disabled in USB clone display screen in FIG 2 to FIG 4.
- After proceeding to FIG 3, 4, turn off the power with AC OFF.

### 3. USB Clone Restrictions

- Be sure to set the network setting (Setup/View setting/Network setup) after writing the data by USB Clone (USB → TV).
- Use USB memory with a memory capacity of 1M byte or greater.
- The USB memory file system is FAT (FAT32).
- No connection of multiple USB memories to the USB port.
- If the USB memory connection is one connection, carry out clone operations regardless of what USB port it is connected to.
- Up until recognition of the USB device and usage enable, do not focus on the button shown in FIG 1 of the “1. Screen Specifications (copy mode <TV → USB>)” and “2. Screen Specifications (copy mode <USB → TV>)” (maximum 45 seconds).
- The following must agree during sucking from TV (TV → USB) and writing to TV (USB → TV).

Vender name (fixed)

Key information (fixed)

USB Clone Ver.

Inch size

Shipping destination settings

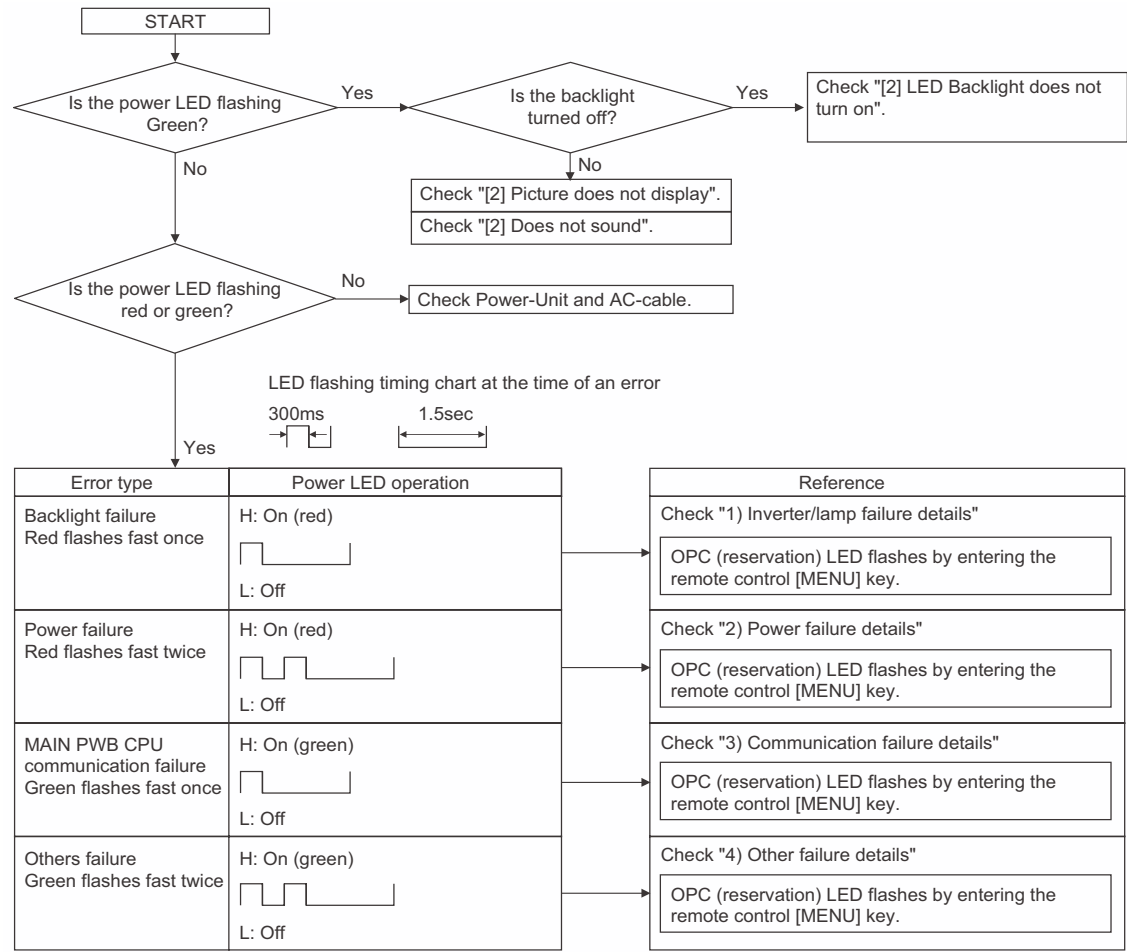
Model name

Software version

CHAPTER 6. TROUBLESHOOTING  
TABLE

[1] TROUBLESHOOTING TABLE

[1] Failure diagnosis by LED in front of cabinet



1) Inverter/Lamp failure details (Red power LED flashes slowly once and OPC LED flashes fast)

Note

Error type	OPC LED operation	Pins are monitor microprocessor pins unless otherwise specified.
Lamp failure Flashes fast once	H: On  L: Off	ERR_PNL(19pin): Low failure. Confirmed after 5 consecutive detections at 64msec intervals (detected only when the backlight is on). Note that after five detection counts, the lamp cannot be activated except in the monitor process. Accumulated counts are cleared to 0 by the setting in the process A.

# CHAPTER 7. MAJOR IC INFORMATIONS

## [1] MAJOR IC INFORMATIONS

### 1. MAJOR IC INFORMATIONS

#### 1.1. IC2601 (VHiSi9 387+ -1Q)

This IC is 5 input and 1 output HDMI port processor.

The TMDS cores run at 2.25Gbps. (Supports video resolutions up to 1080p, 60Hz, 12bit.)

The adaptive equalizer provides long cable support.

This IC has been pre-programmed with HDCP keys.

EDID and DDC support for 5 HDMI/DVI ports and 1 VGA port. (This IC includes 512-byte NVRAM and 256-byte SRAM for 5 HDMI ports and 128-byte SRAM for VGA port.)

This IC supports the mandatory and several optional 3D formats described in the HDMI 1.4 Specification.

“Audio Return Channel” and “HDMI Ethernet Channel” support for one receiver port.

When changing this IC, please write EDID (how to write EDID is shown in Chapter 5 and section 10.1).

#### 1.2. IC2004 (RH-iXD241WJQZQ)

The monitor microprocessor is intended to communicate with the main microprocessor and to operate the system.

It also controls power of the entire system.

#### 1.3. IC1902 (VHiYDA164EZ-1Y)

The Class-D type digital audio power amplifier YDA164BZ gives maximum continuous output of 10 W/ch.1

#### 1.4. IC3301 (RH-iXD414WJN3Q)

This LSI is FULL HIGH-DEFINITION 1080P DIGITAL TV SYSTEM-ON-A-CHIP.

It combines a transport de-multiplexer, a high definition video decoder, an AC3 audio decoder, a four-link LVDS transmitter, a V-by-One transmitter, and an NTSC/PAL/SECAM TV decoder with a 3D comb filter (NTSC/PAL).

It supports Full-HD MPEG1/2/4/DiviX/VC1/RM/H.264/AVS video decoder standards, and JPEG.

Audio support includes a BTSC and a Dolby AC3/MPEG-2 Layer 1, 2, audio decoder.

A SPDIF output and a pair of analog outputs (L-R) are provided.

The LSI incorporates a complete ARM11-based microprocessor subsystem including caches with bridging to memory and a local bus, where external peripherals can be attached.

Integrated peripherals include two USB 2.0, three UARTs, counter/timers and GPIO controllers.

#### 1.5. IC3501, IC3502 (RH-iXD405WJQZQ)

These are 2G-bit (128M x 16bit) DDR3-1333 synchronous DRAM.

#### 1.6. IC3503 , IC3504 (RH-iXD406WJQZQ)

The 1G-bit NAND flash memory device stores the main CPU program.

#### 1.7. IC3104 (VHiBR24T64F-1Y)

This is 64k-bit EEPROM device including the user setting.

#### 1.8. IC506 (VHiM3221EIP-1Y)

This IC is a high speed, single-channel RS-232 transceiver interface device that operates from a single 3.3V power supply.

The device provides the electrical interface between an asynchronous communication controller and the serial-port connector.

This device operate at data signaling rates up to 460kbit/s.

All RS-232 (Tout and Rin) and CMOS (Tin and Rout) inputs and outputs are protected against electrostatic discharge (up to +/- 15kV ESD protection).

#### 1.9. IC1702 (VHiAK4201EU-1Y)

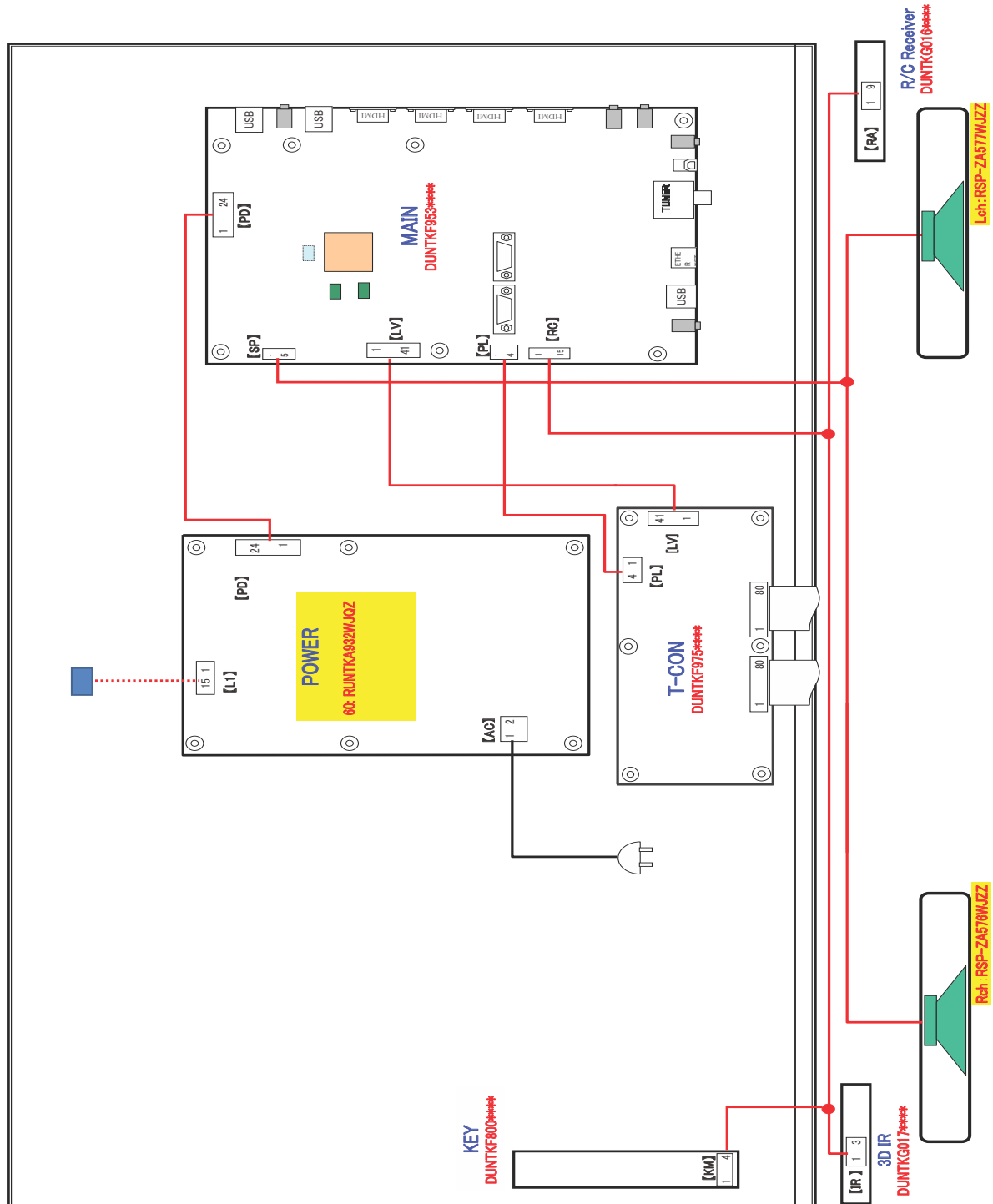
This IC is audio amplifier for line-out/head-phone.

#### 1.10. IC1703 (VHiYSS952QZ-1Y)

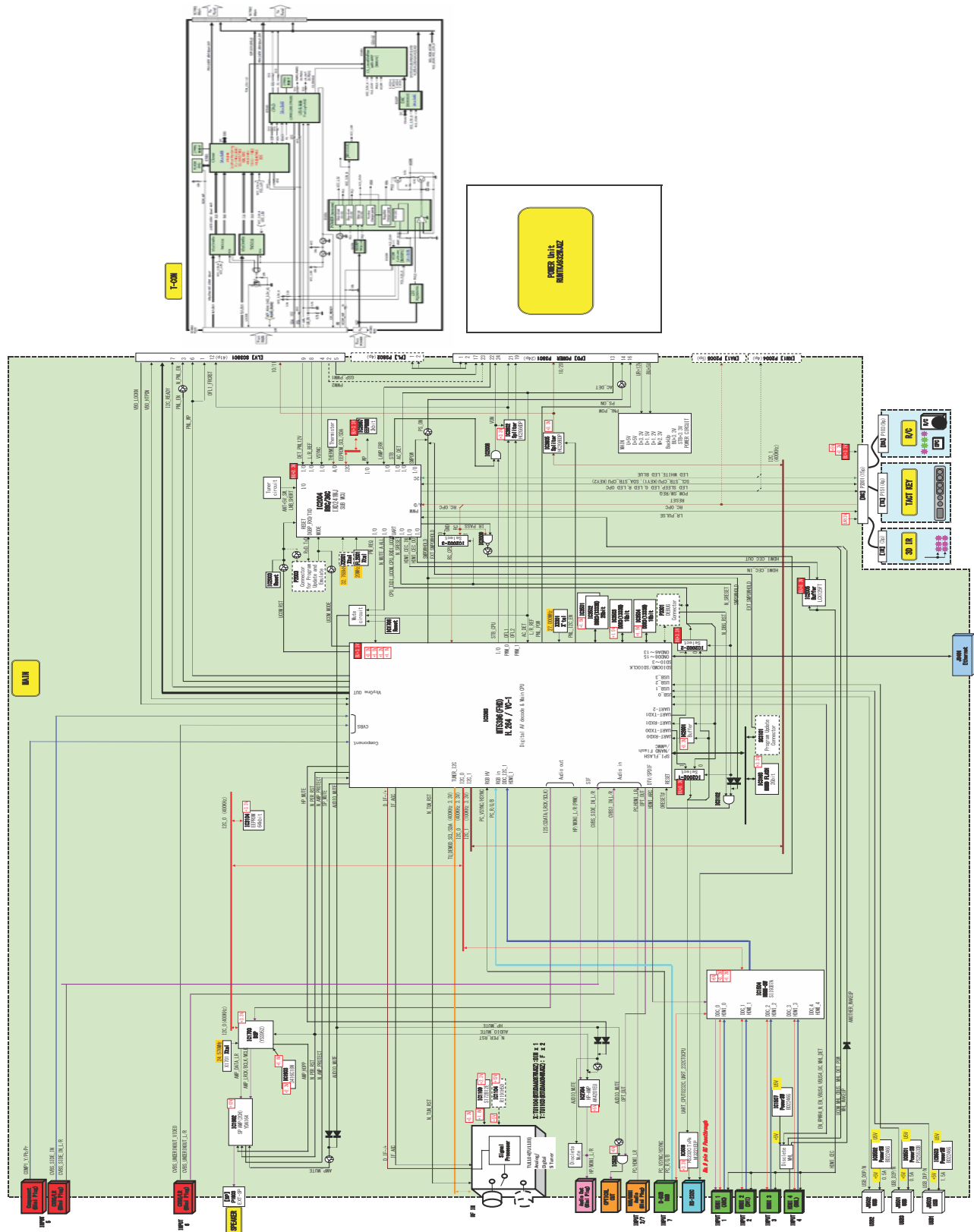
Audio DSP (YSS951QZ) has digital audio adjustment function (for example, PEQ, bass/treble, balance, bass enhancer, etc.) and adjusts TVs audio quality.

## CHAPTER 8. OVERALL WIRING / BLOCK DIAGRAM

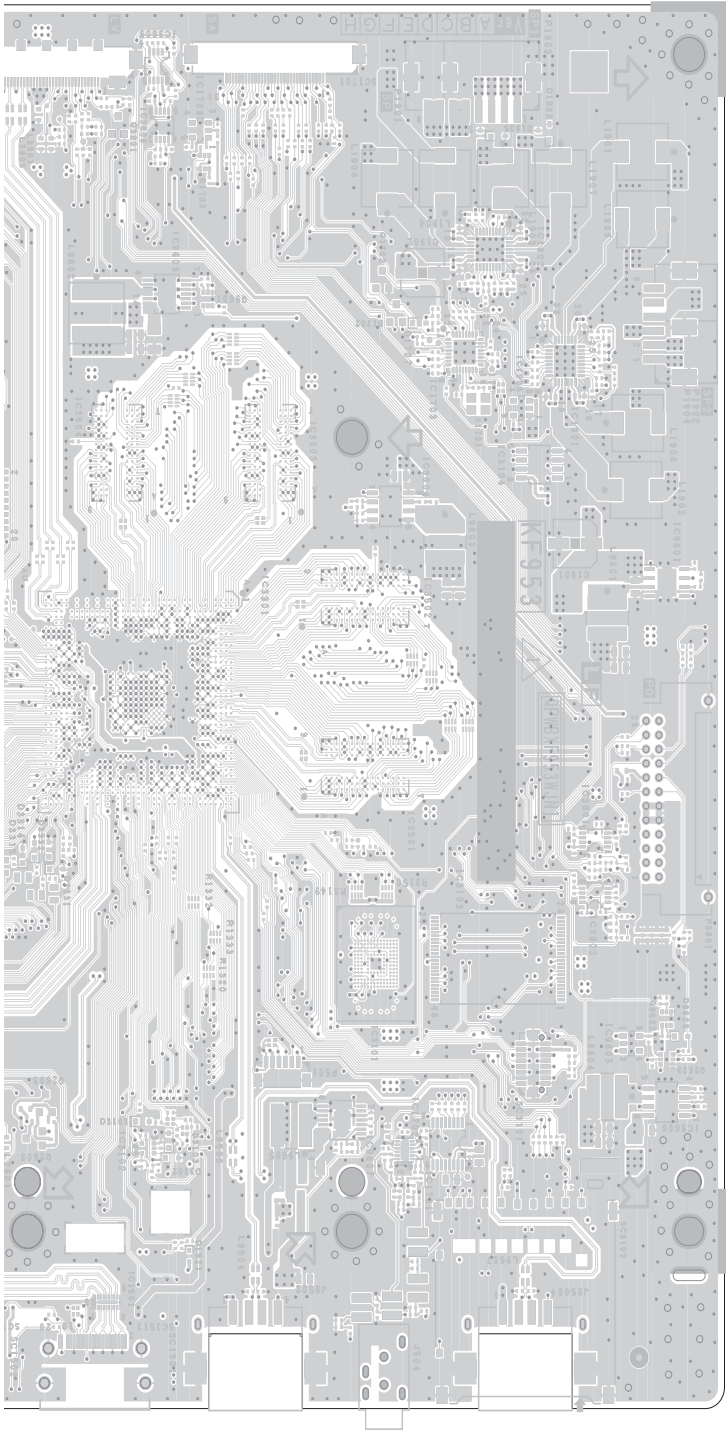
## [1] SYSTEM BLOCK DIAGRAM



## [2] OVERALL WIRING DIAGRAM

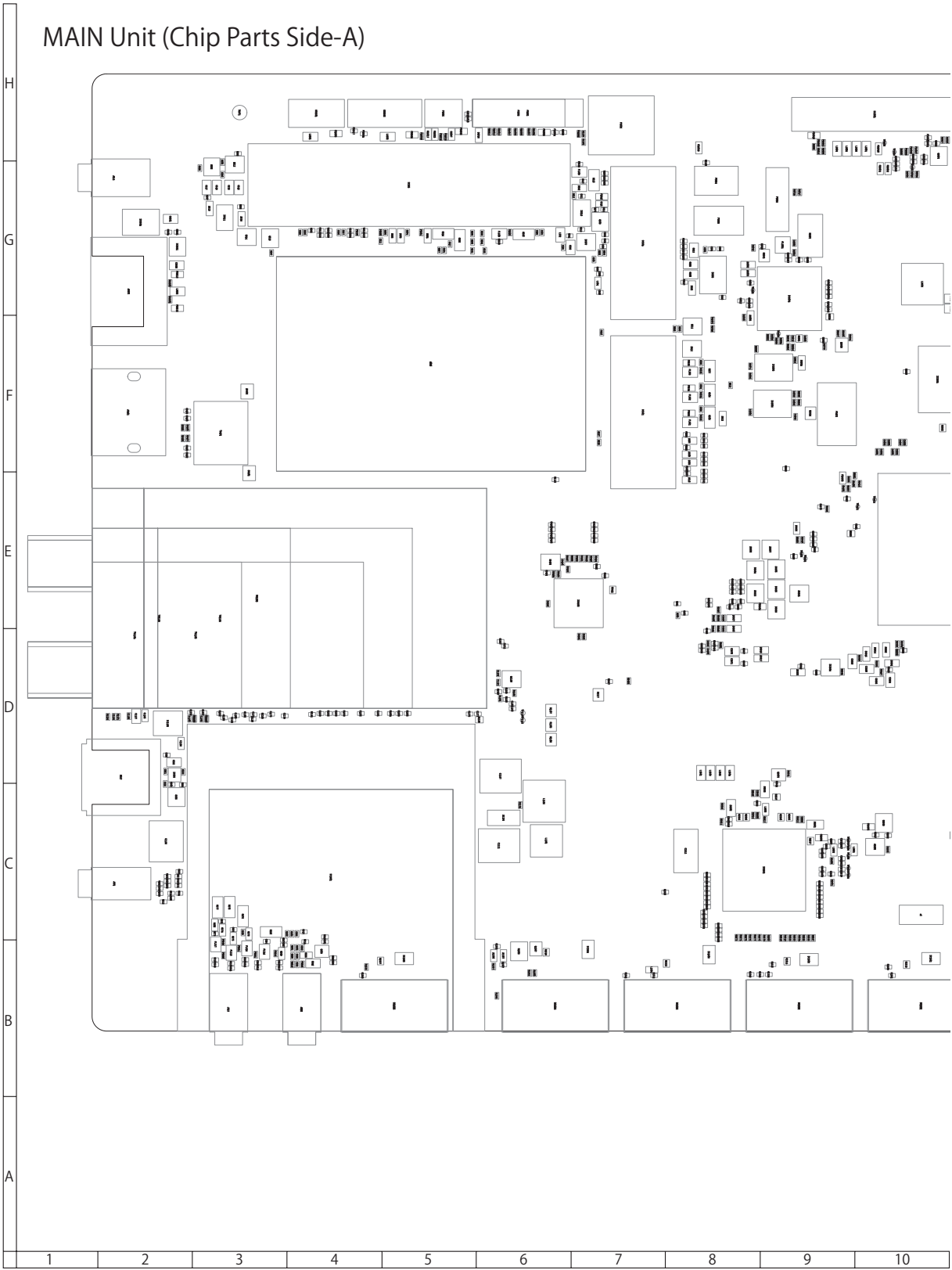


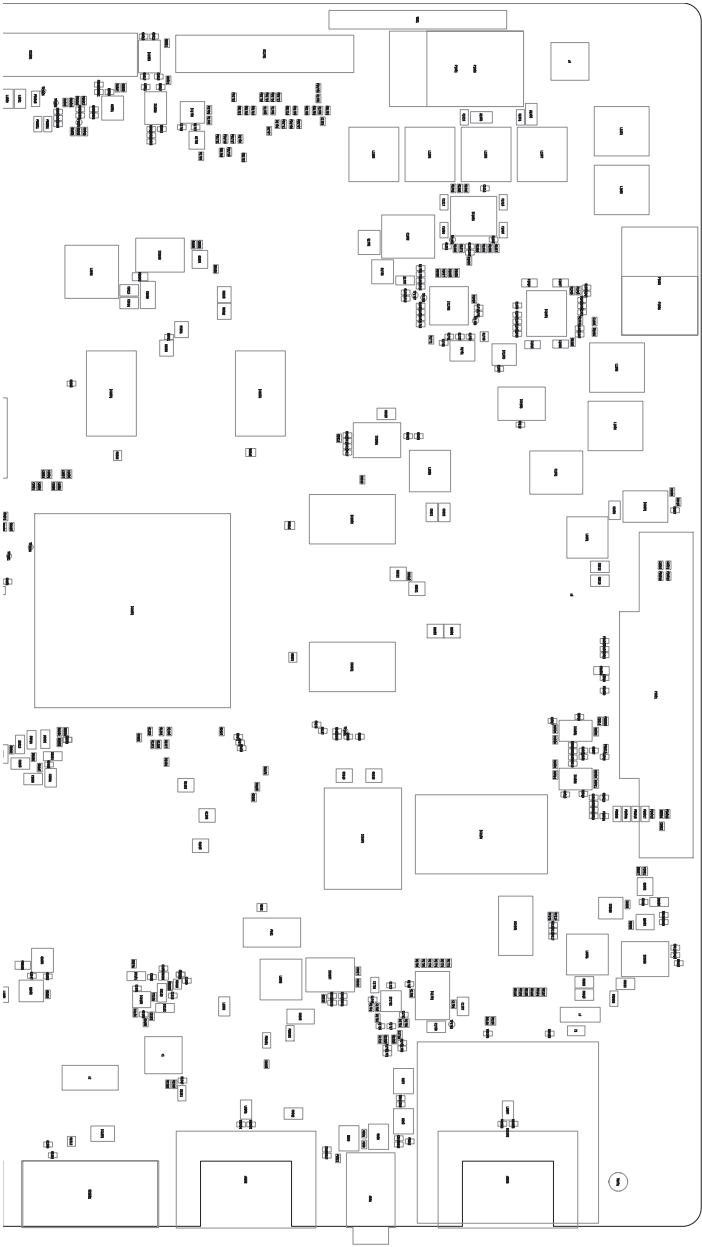




10	11	12	13	14	15	16	17	18	19
----	----	----	----	----	----	----	----	----	----

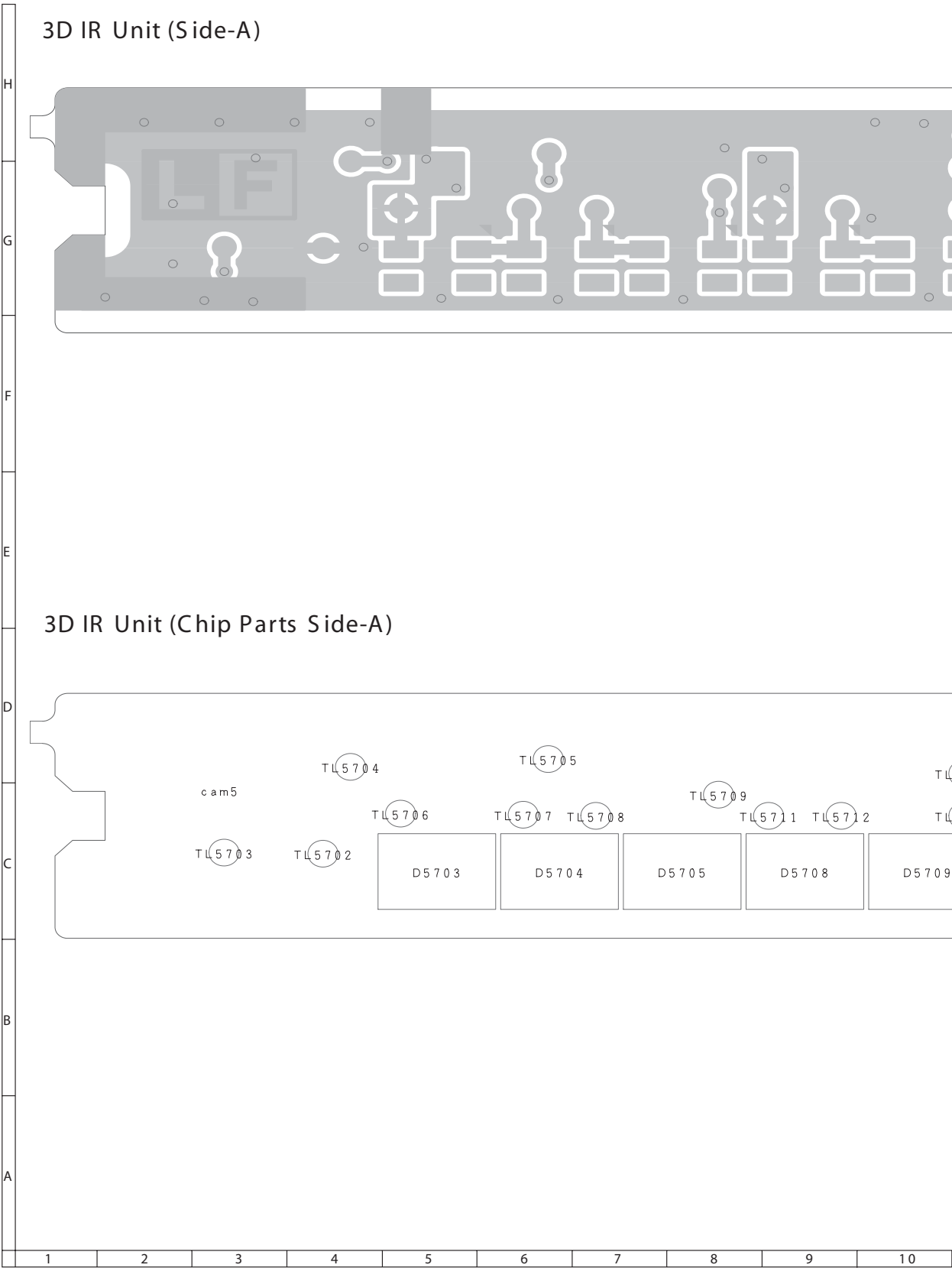


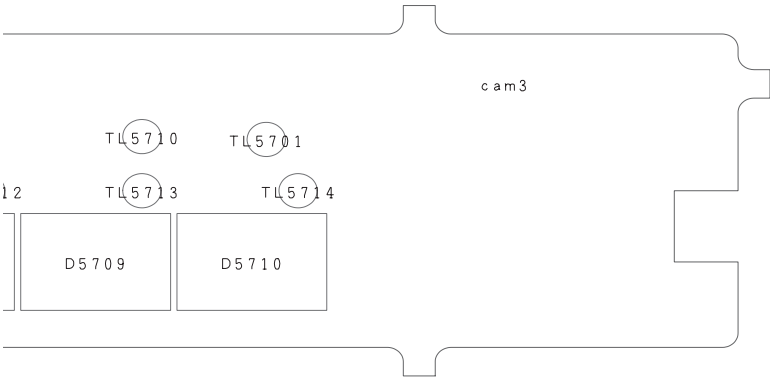
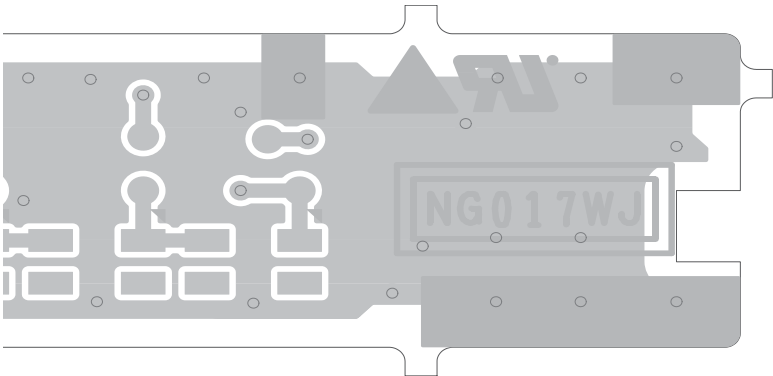




10	11	12	13	14	15	16	17	18	19
----	----	----	----	----	----	----	----	----	----

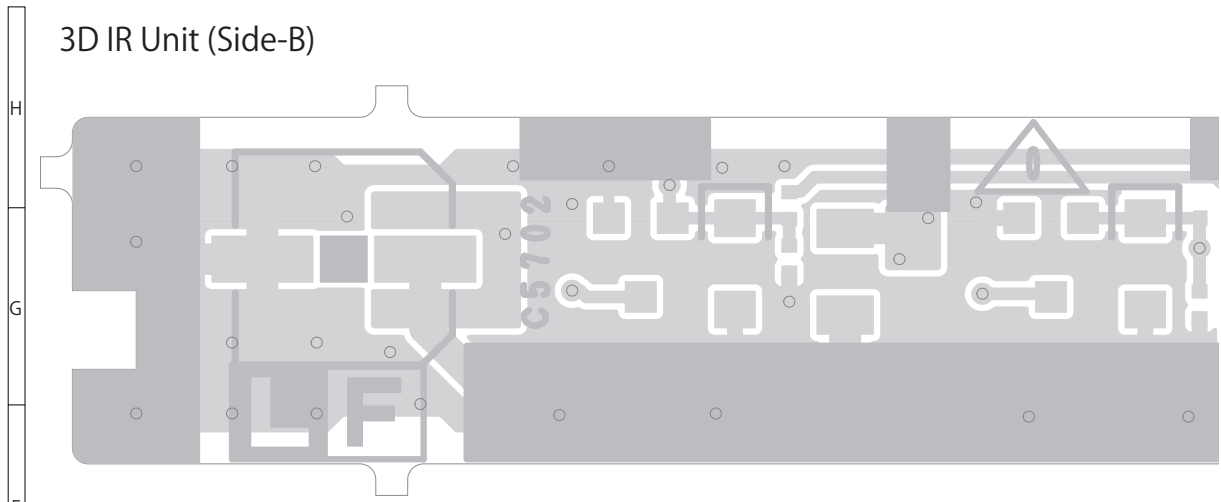
[2] 3DIR PWB



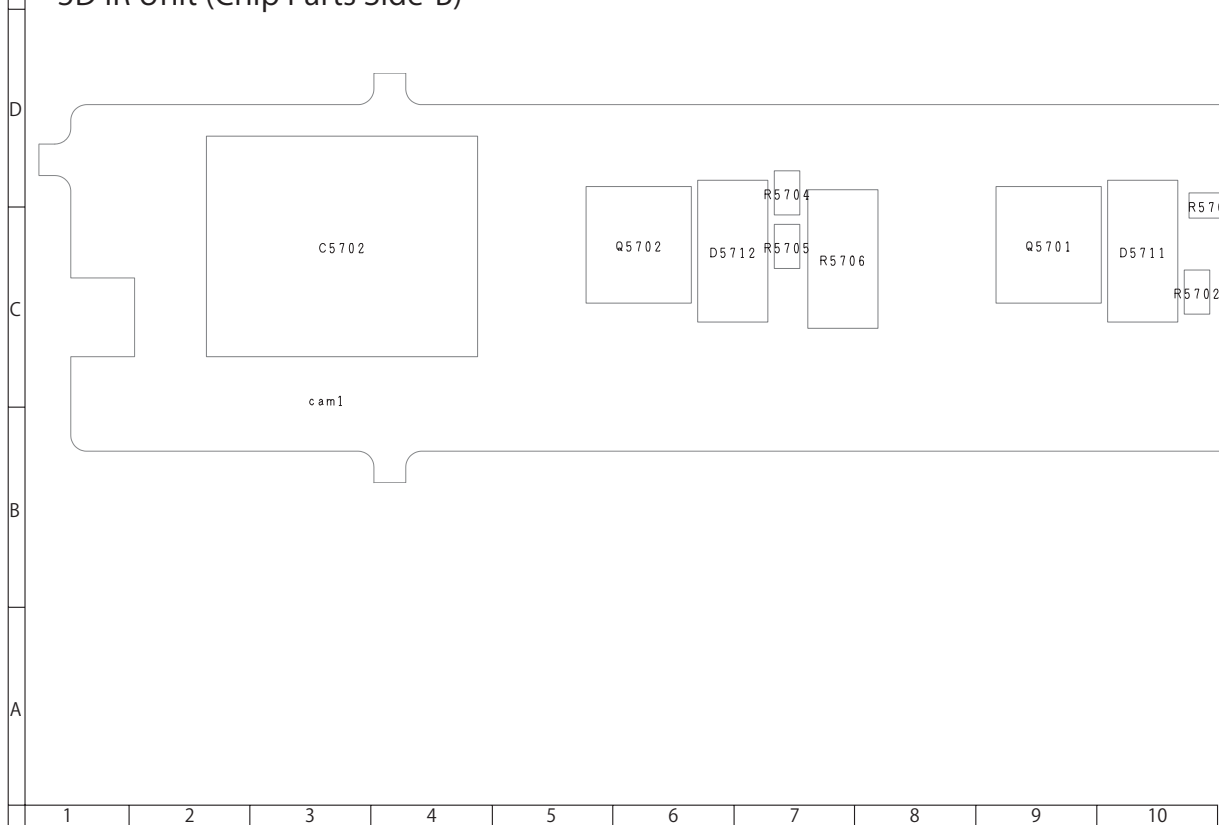


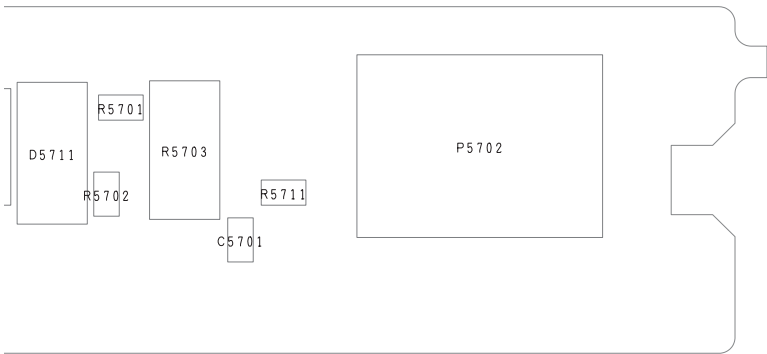
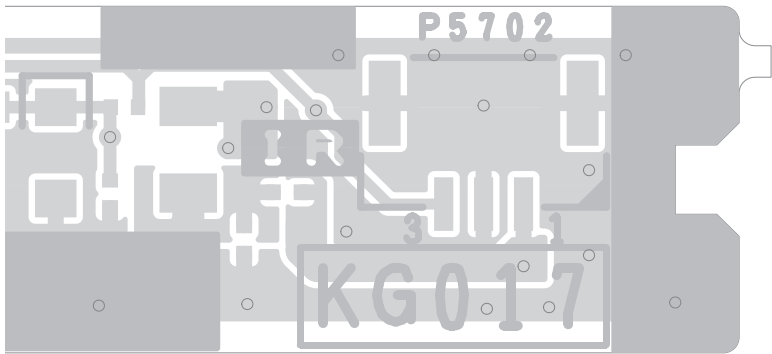
10	11	12	13	14	15	16	17	18	19
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3D IR Unit (Side-B)



3D IR Unit (Chip Parts Side-B)





10	11	12	13	14	15	16	17	18	19
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## CHAPTER 10. SCHEMATIC DIA-GRAM

### [1] DESCRIPTION OF SCHEMATIC DIA-GRAM

#### 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 " " is omitted.  
(K=k =1000 , M=M ).
- 2) All resistors are  $\pm 5\%$ , unless otherwise noted.  
(K=  $\pm 10\%$ , F=  $\pm 1\%$ , D=  $\pm 0.5\%$ )
- 3) All resistors are 1/16W, unless otherwise noted.

##### CAPACITOR

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



##### CAUTION:

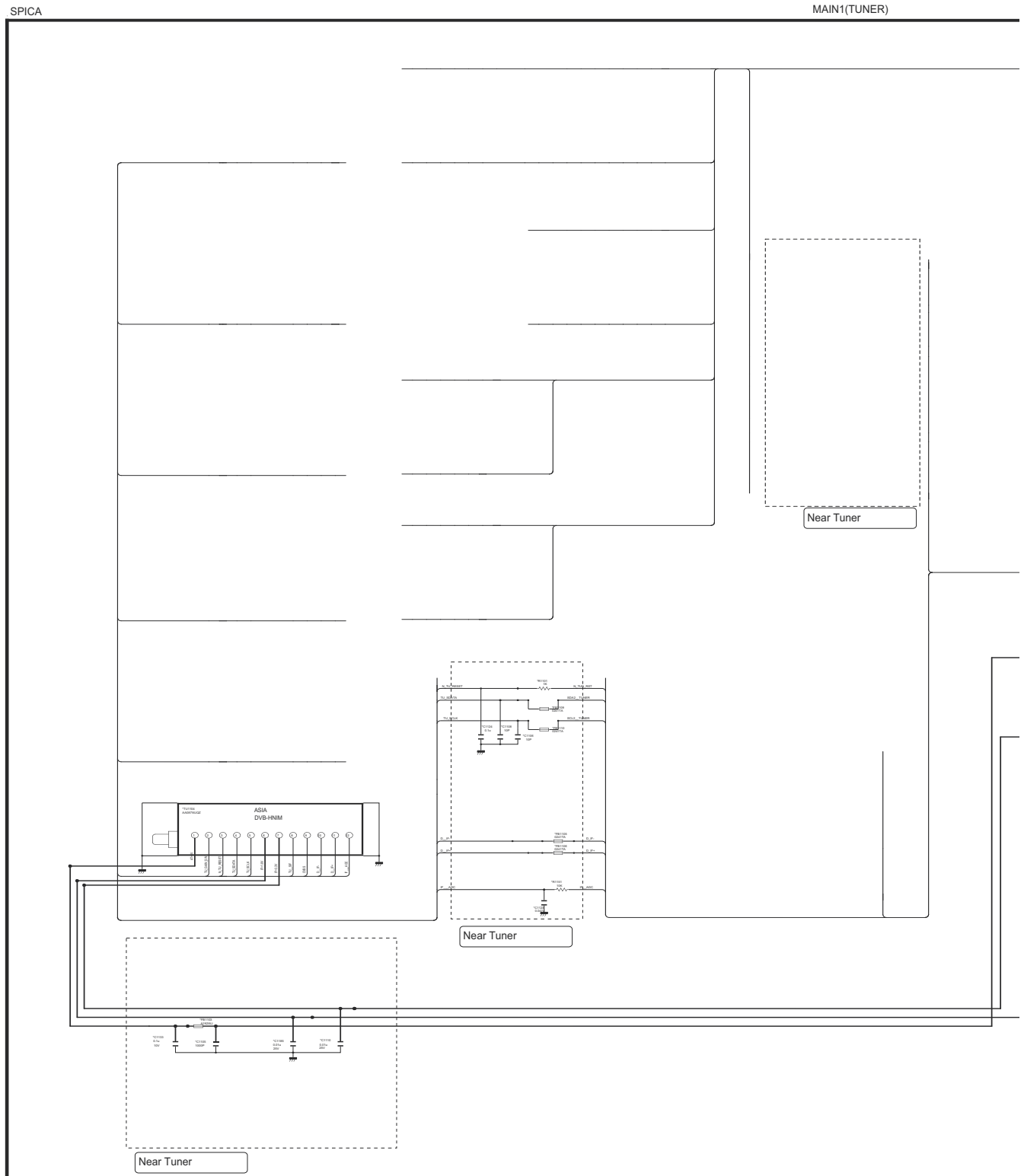
This circuit diagram is original one, therefore there may be a slight difference from yours.

##### SAFETY NOTES:

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

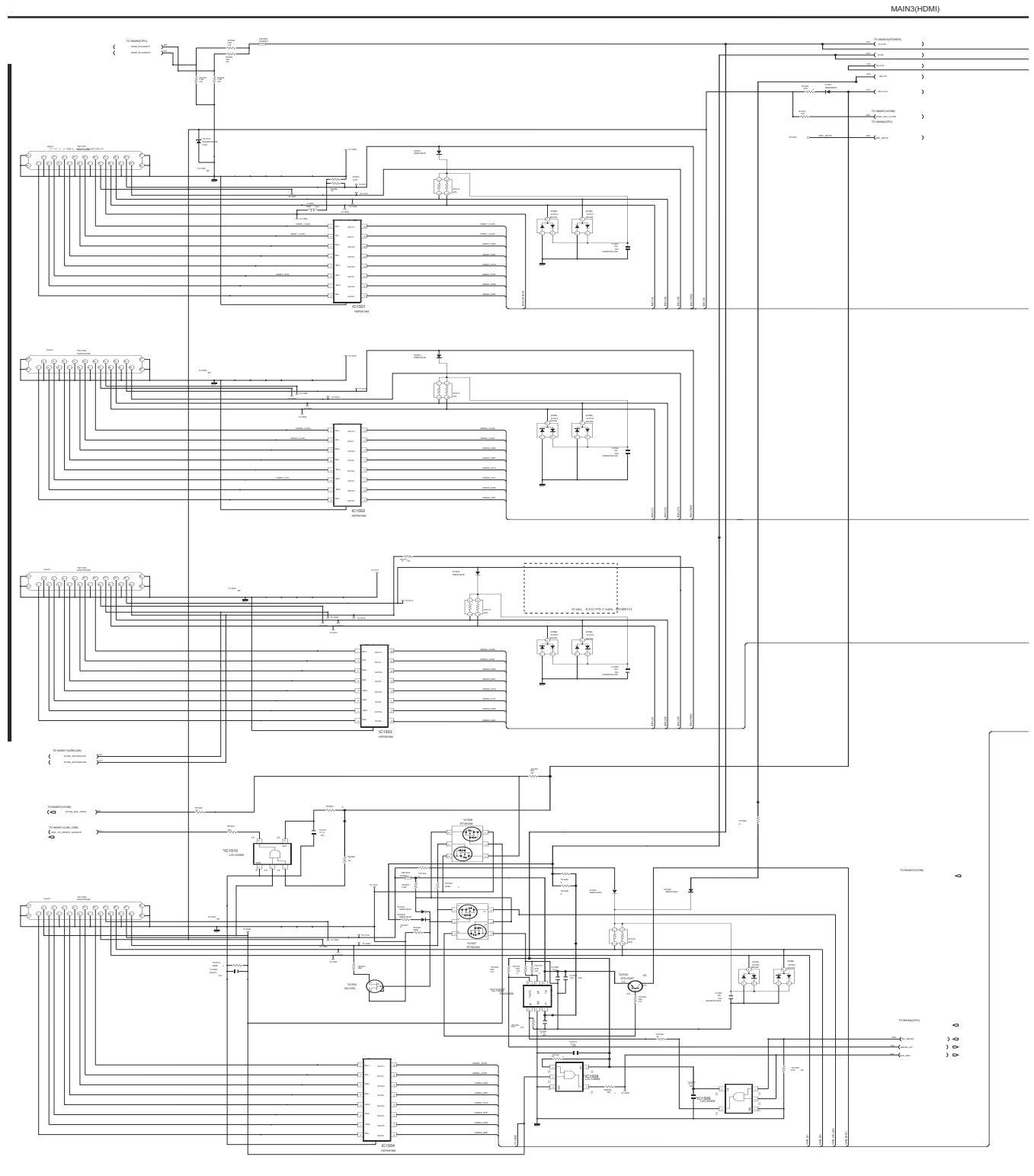
##### IMPORTANT SAFETY NOTICE:

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

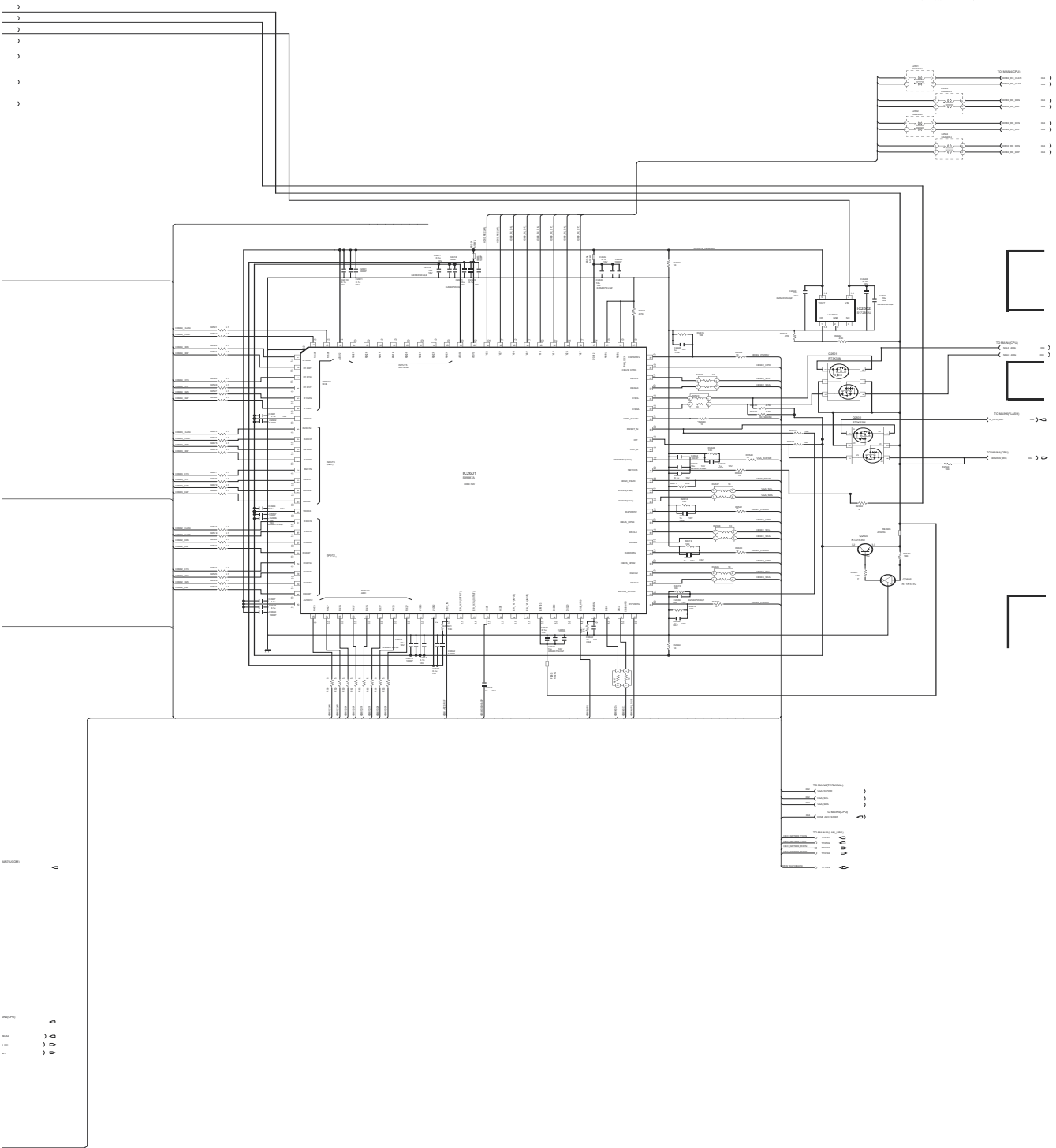


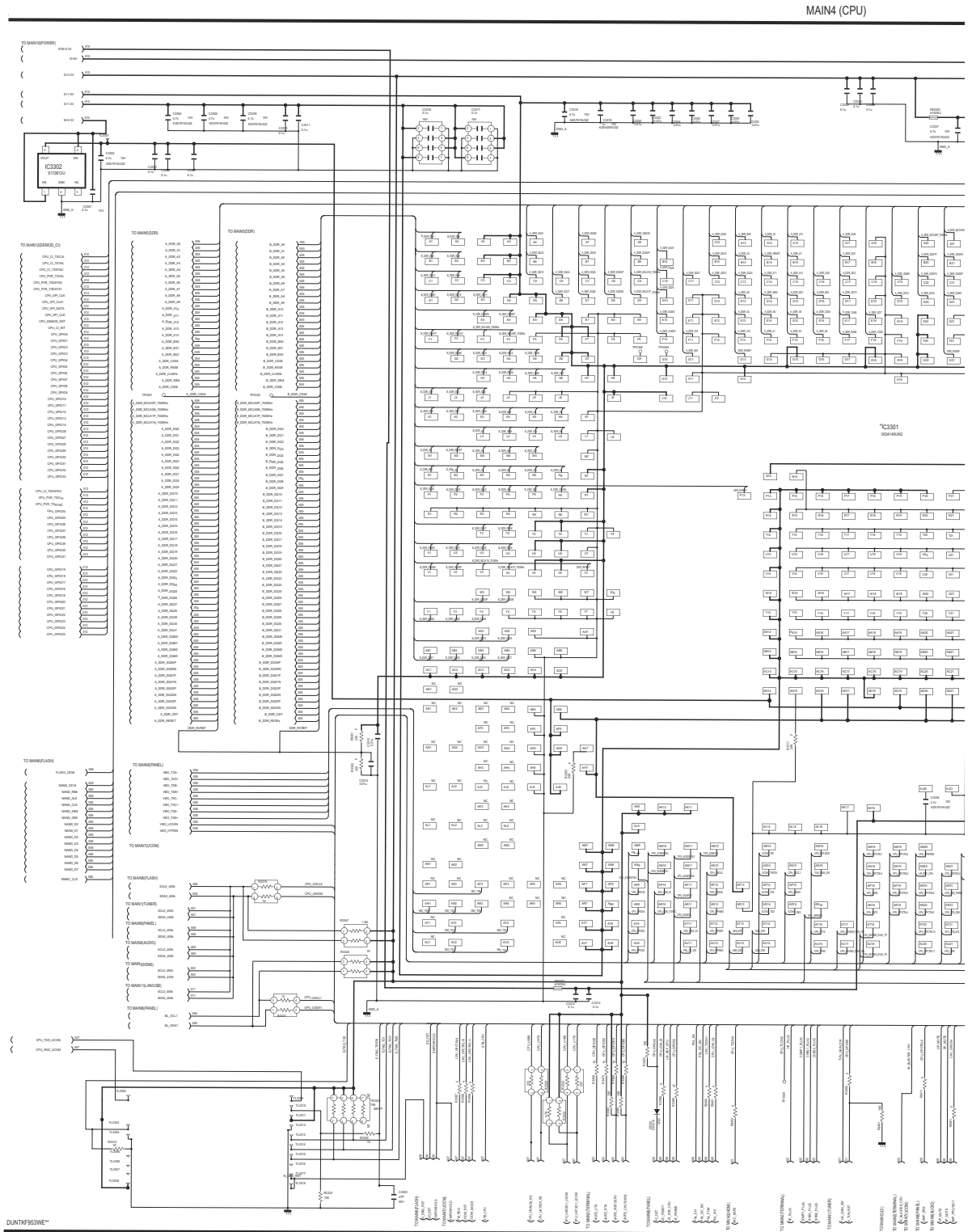




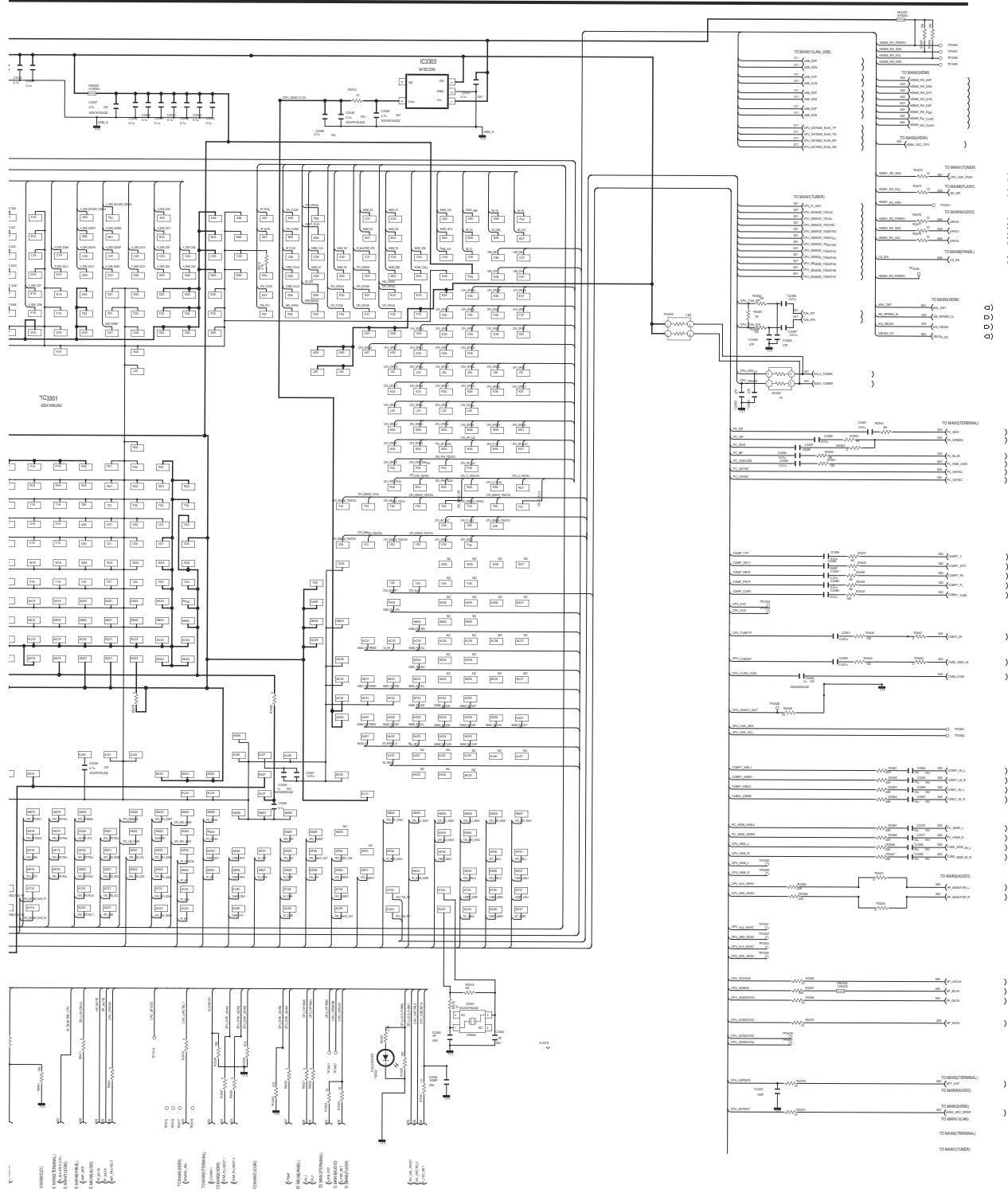


43(HDMI)

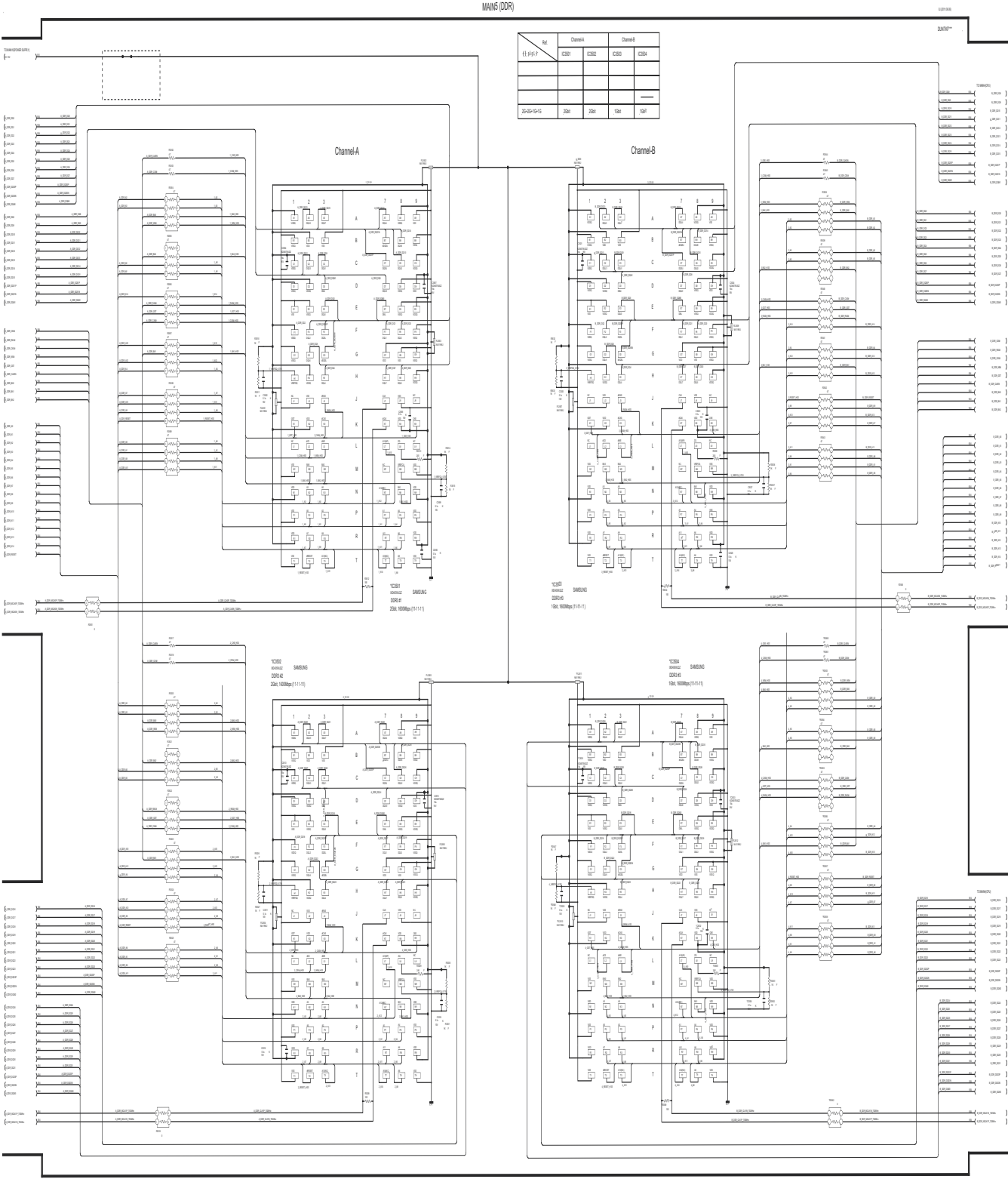


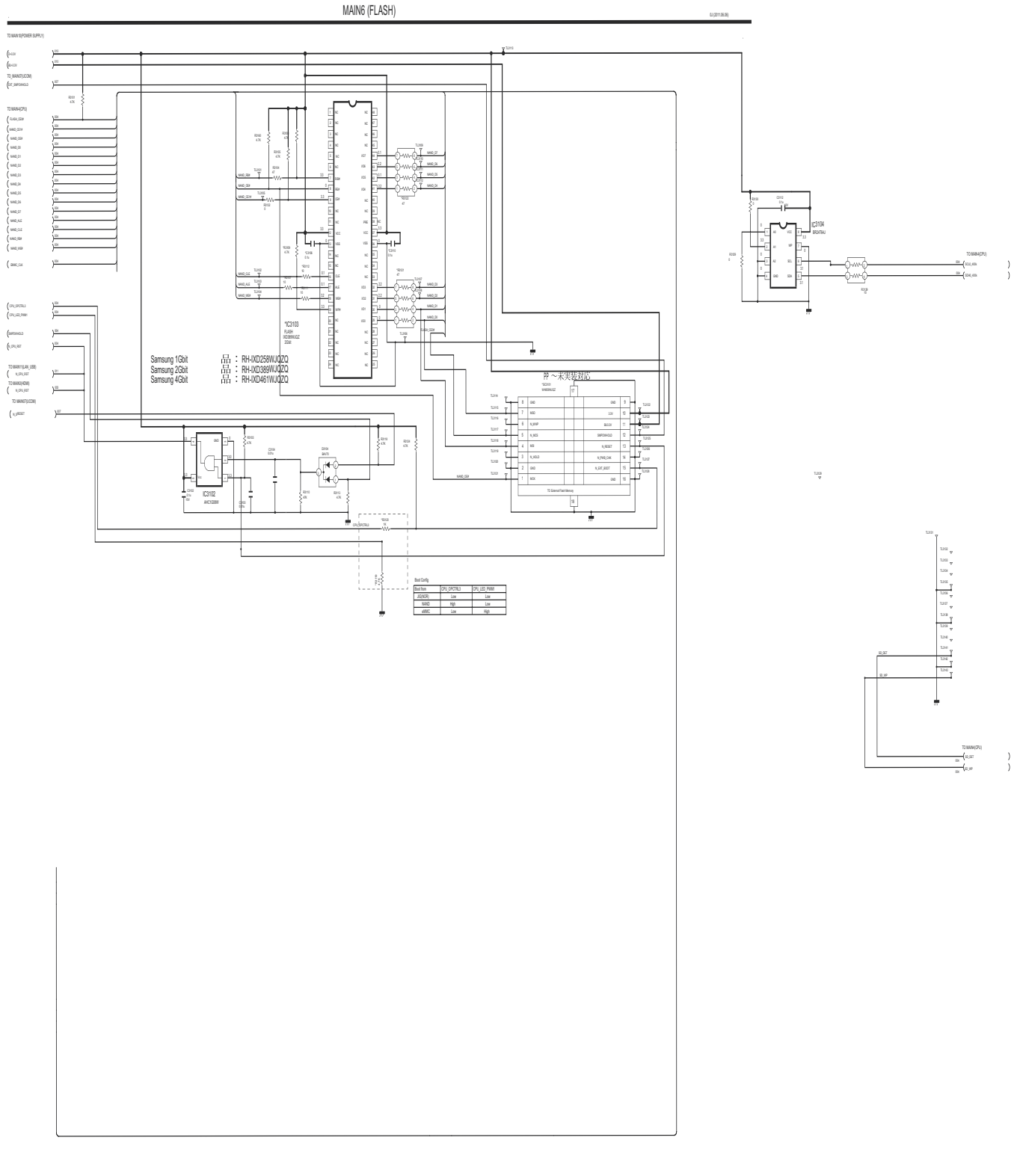


PU)

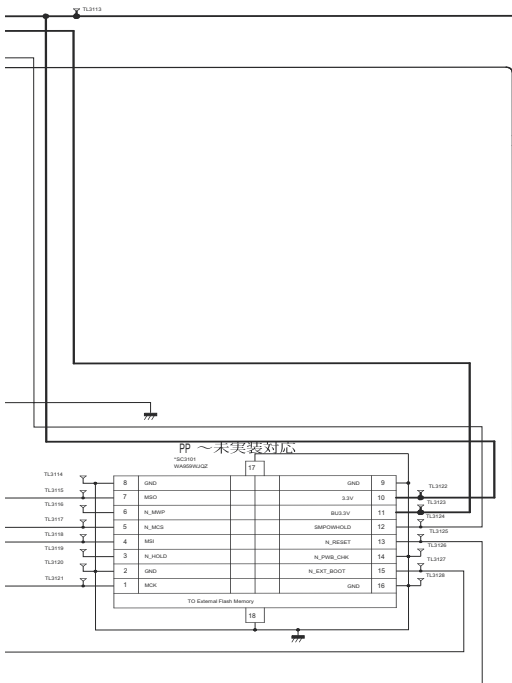




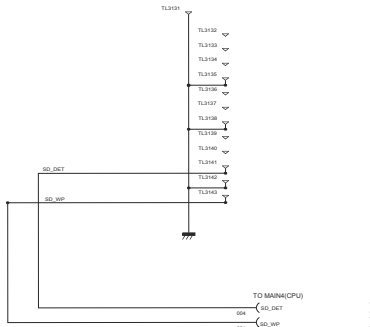
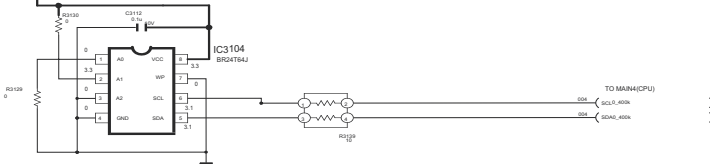


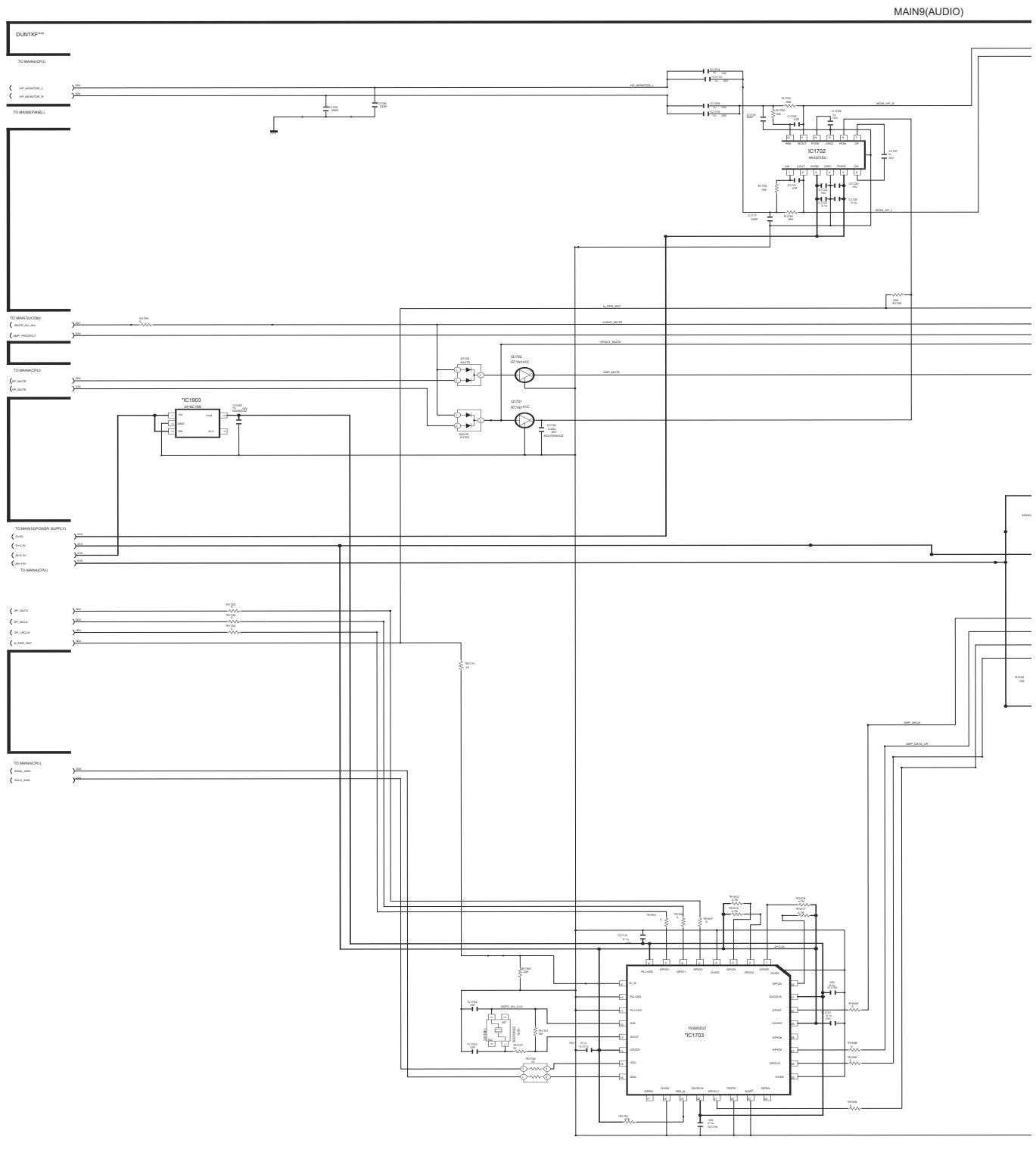




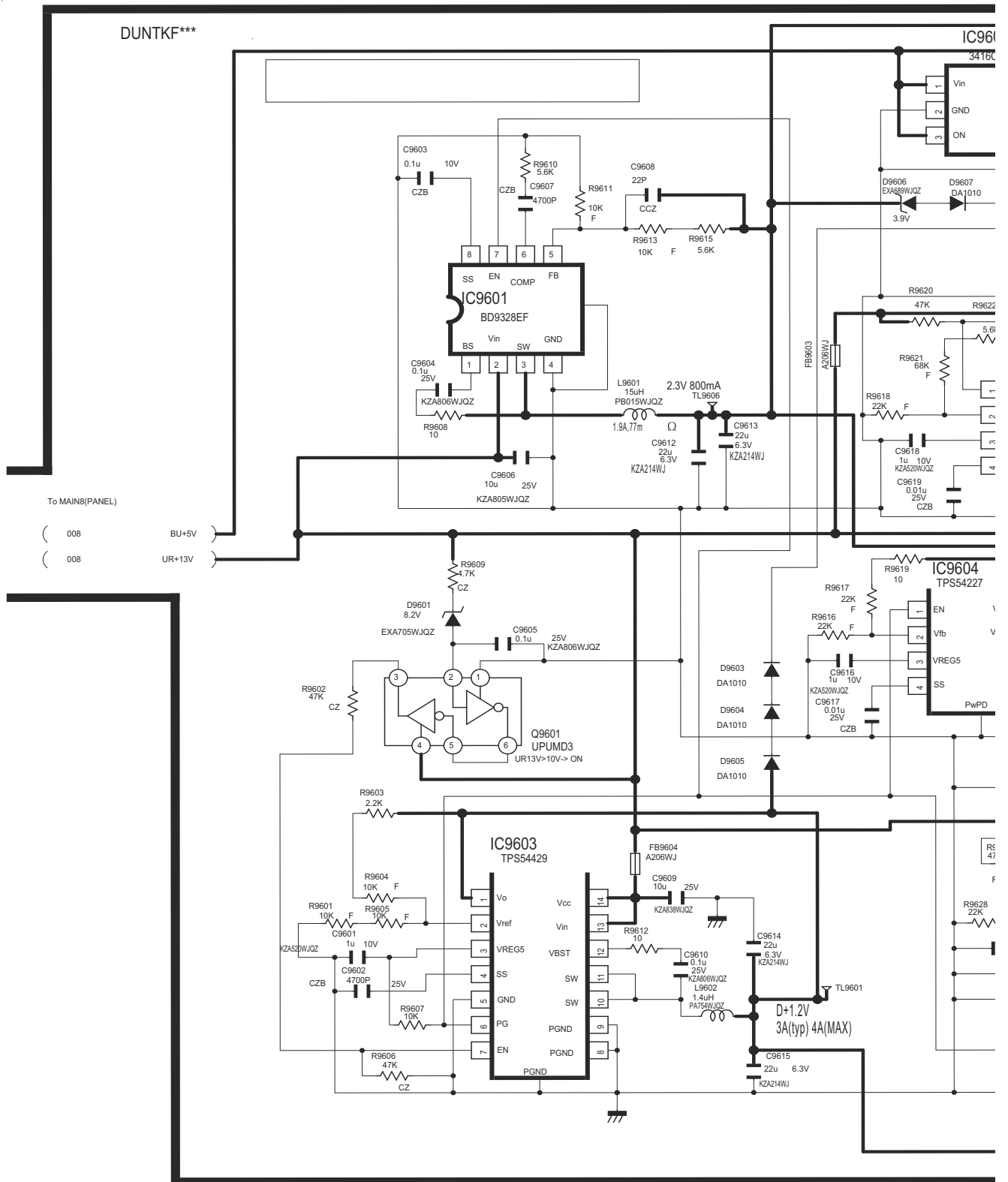


PU_LED_PWM1
Low
Low
High

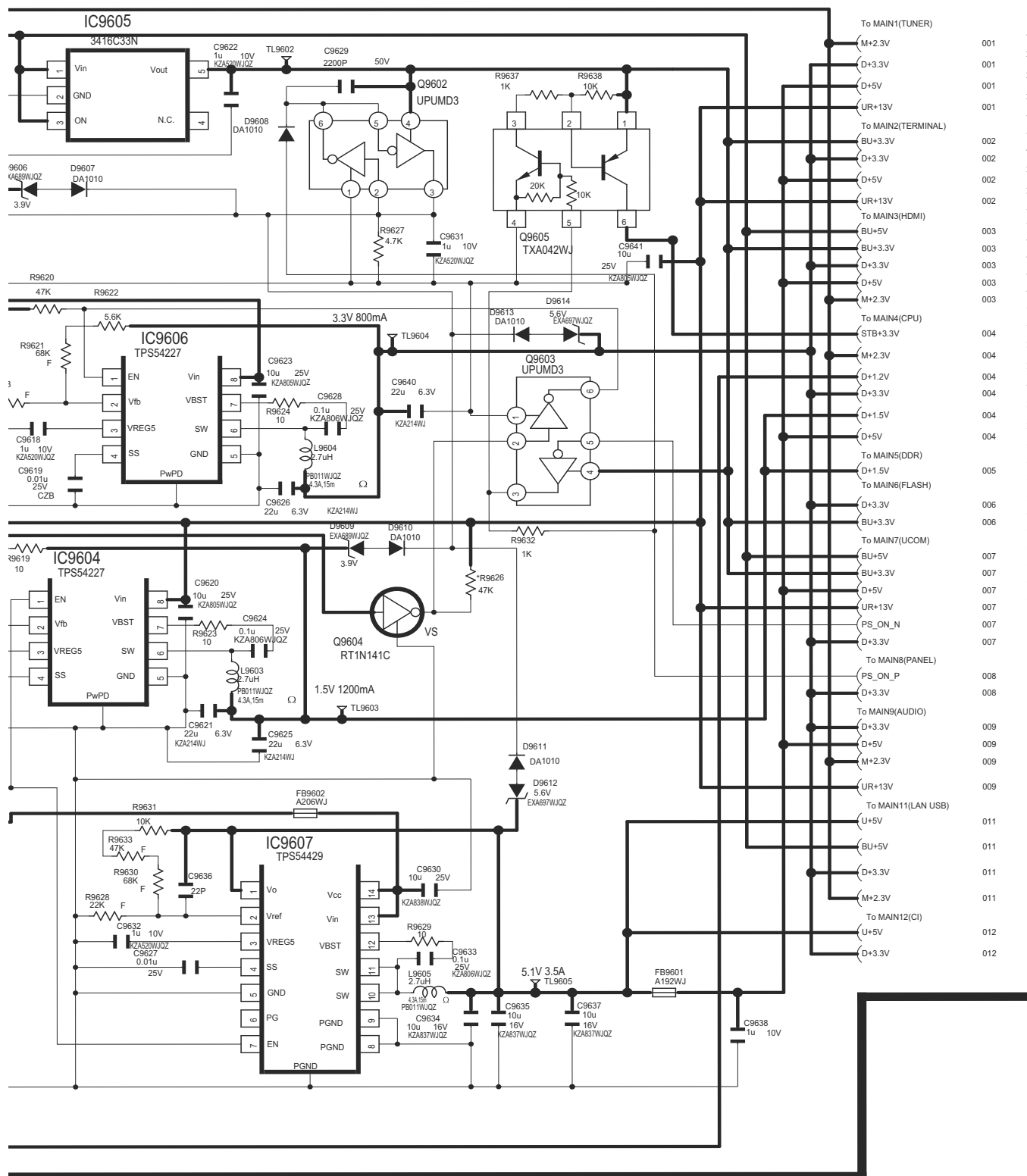








# MAIN10(POWER)



## MAIN11(LAN\_USB)

DUNTKE\*\*\*

TO MAIN10(POWER SUPPLY)

( U=5V ) 510

TO MAIN8(PANEL)

TO MAIN7(UCOM)

( BLT\_WAKEUP ) 507

TO MAIN4(CPU)

TO MAIN7(UCOM)

( ANOTHER\_WAKEUP ) 507

TO MAIN3(HDMI)

( MHL\_CD\_SENCE\_WAKEUP ) 503

TO MAIN4(CPU)

( USB\_D1P ) 504

( USB\_D1N ) 504

TO MAIN4(CPU)

( USB\_D2P ) 504

( USB\_D2N ) 504

TO MAIN4(CPU)

( USB\_D3P ) 504

( USB\_D3N ) 504

TO MAIN4(CPU)

CPU\_DATMDI\_RL4S\_TP

CPU\_DATMDI\_RL4S\_TN

CPU\_DATMDI\_RL4S\_RP

CPU\_DATMDI\_RL4S\_RN

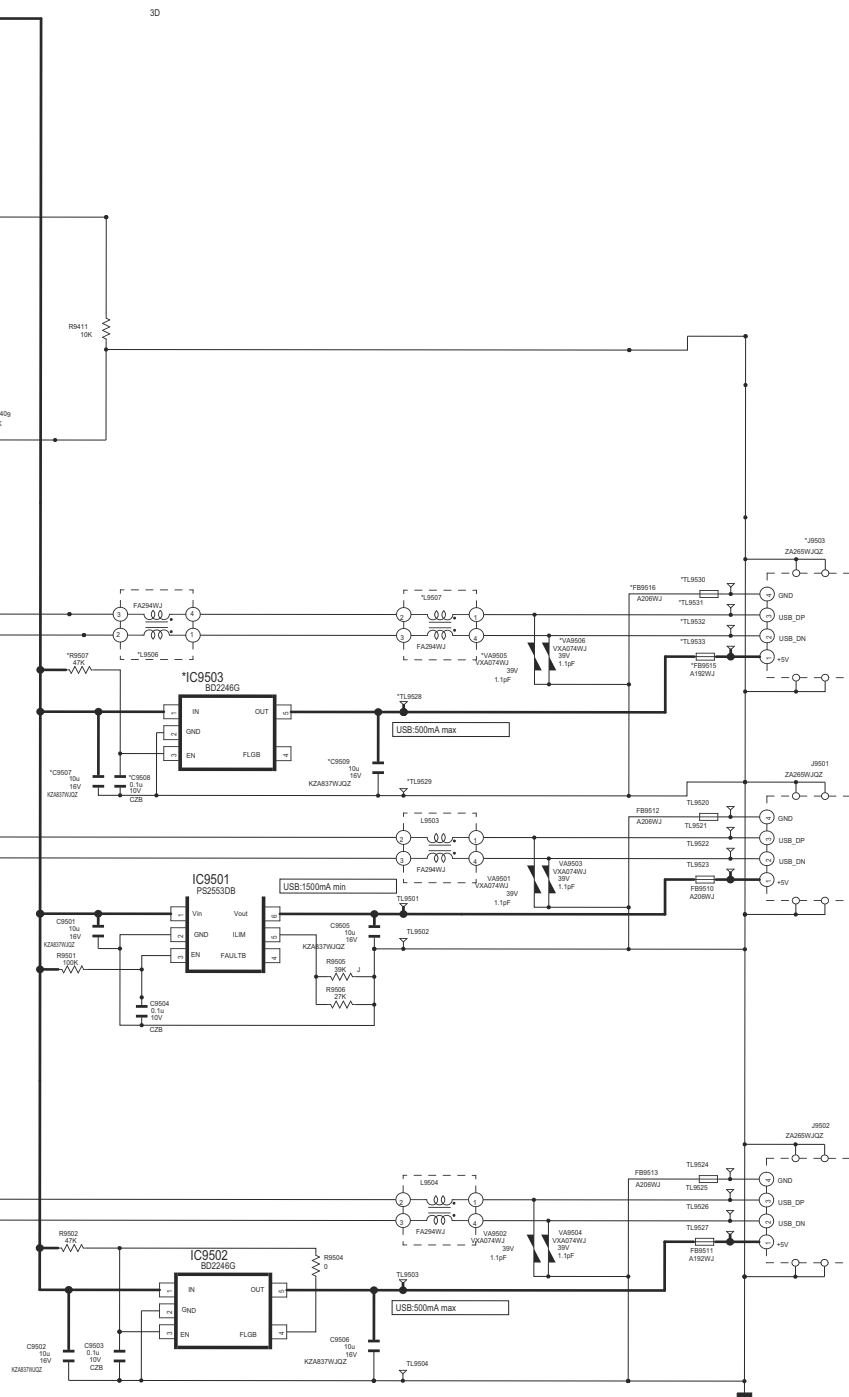
TO MAIN3(HDMI)

TO MAIN4(CPU)

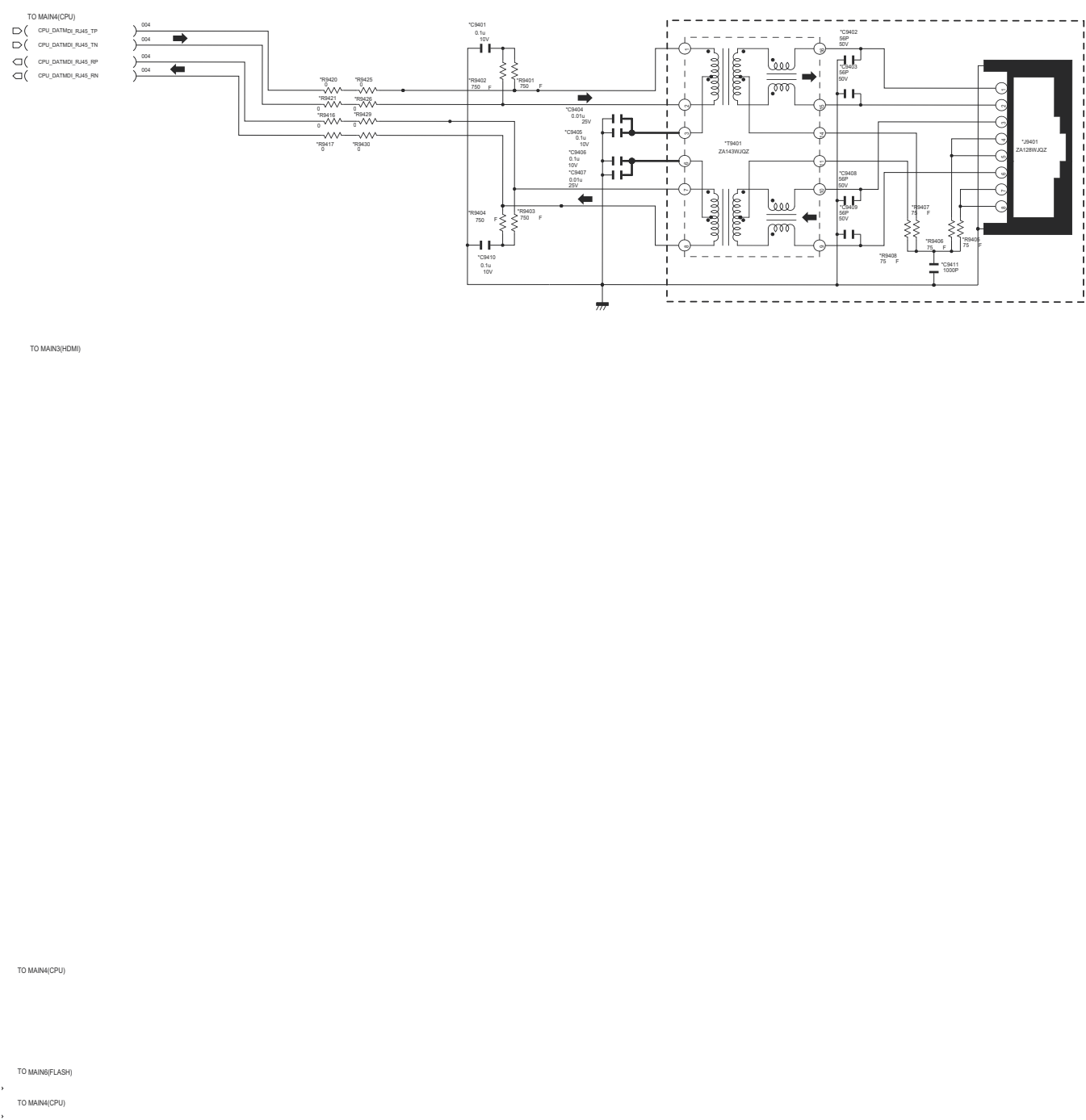
TO MAIN6(FLASH)

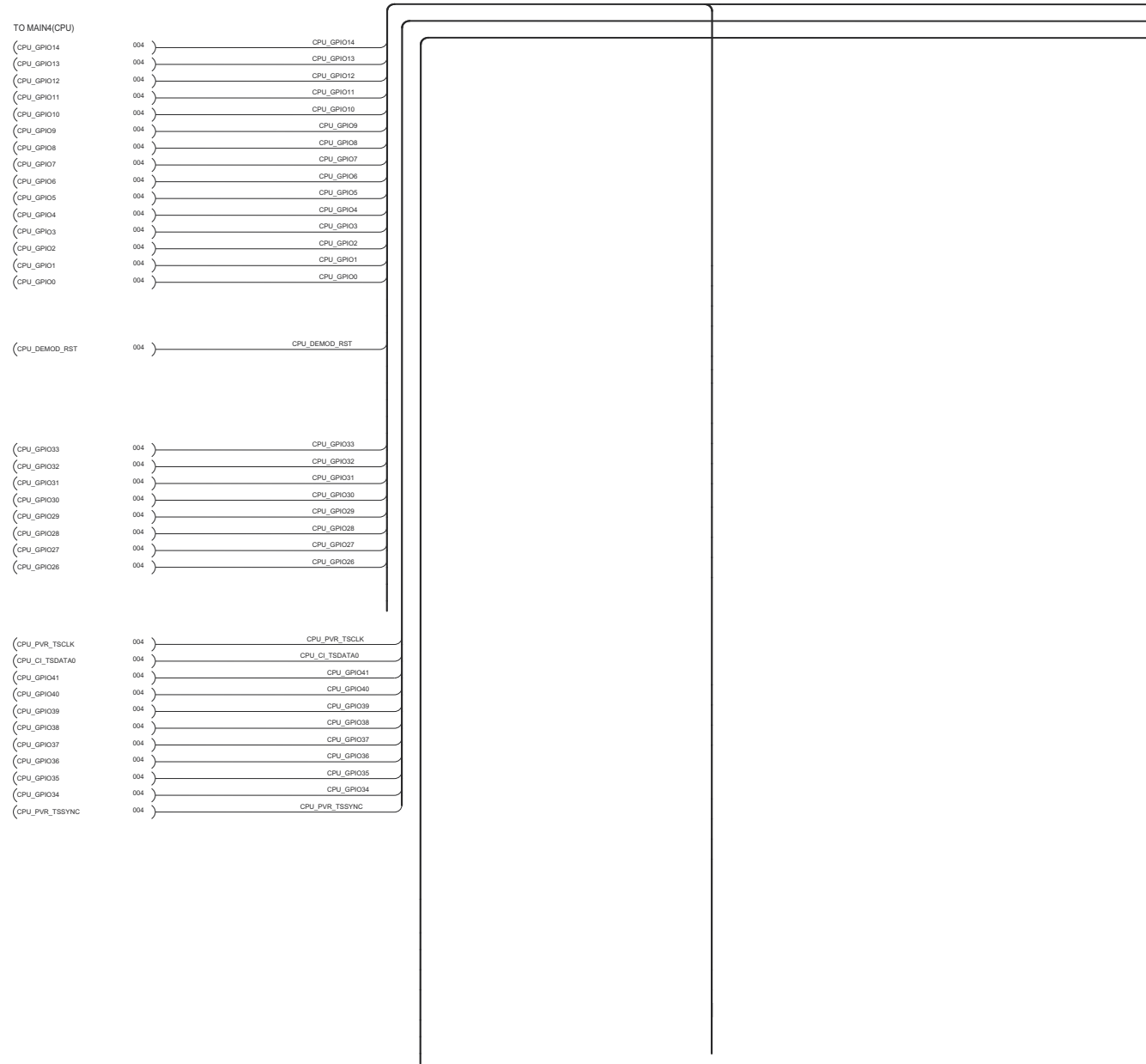
TO MAIN4(CPU)

TO MAIN4(CPU)



ISB)



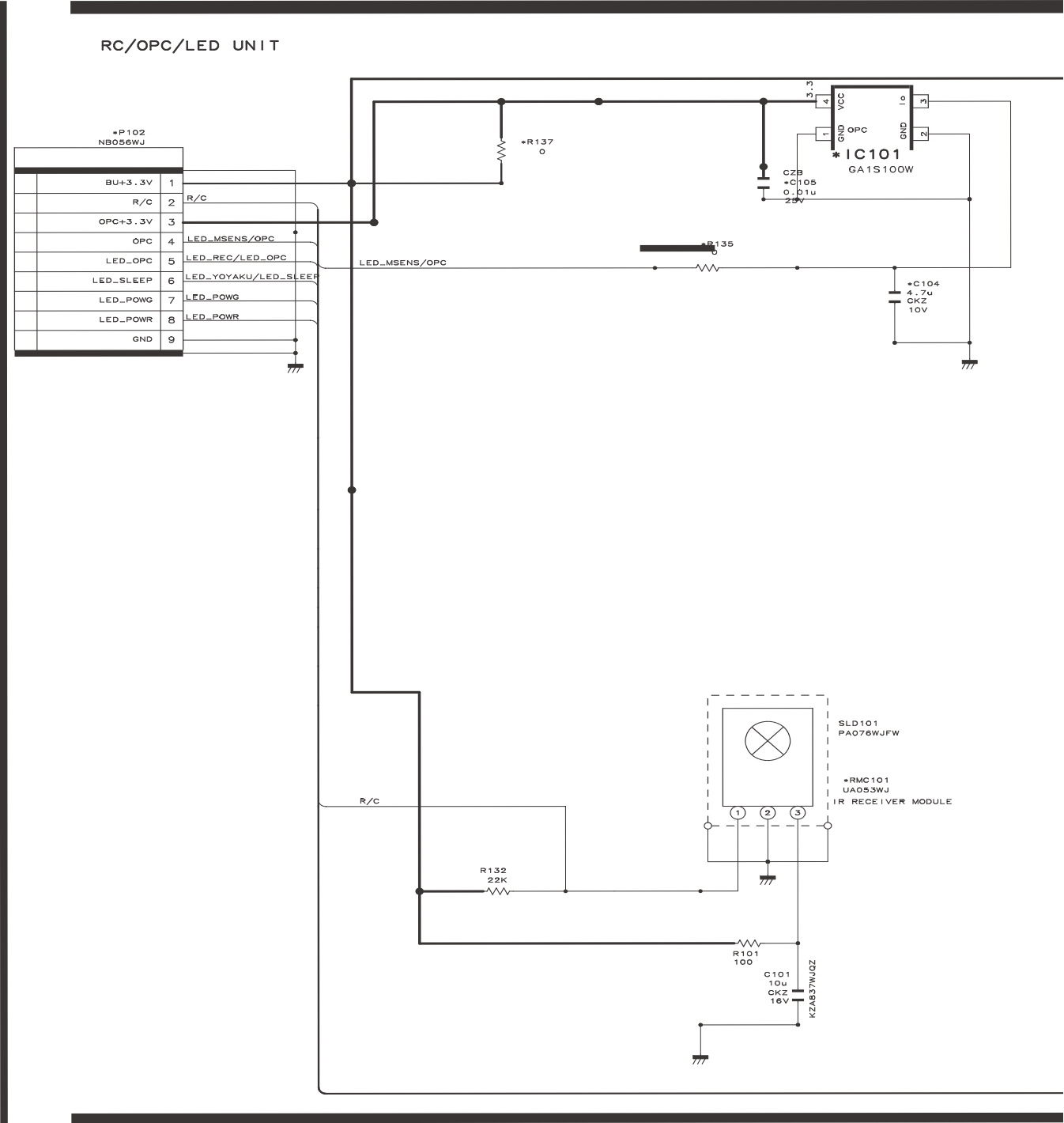




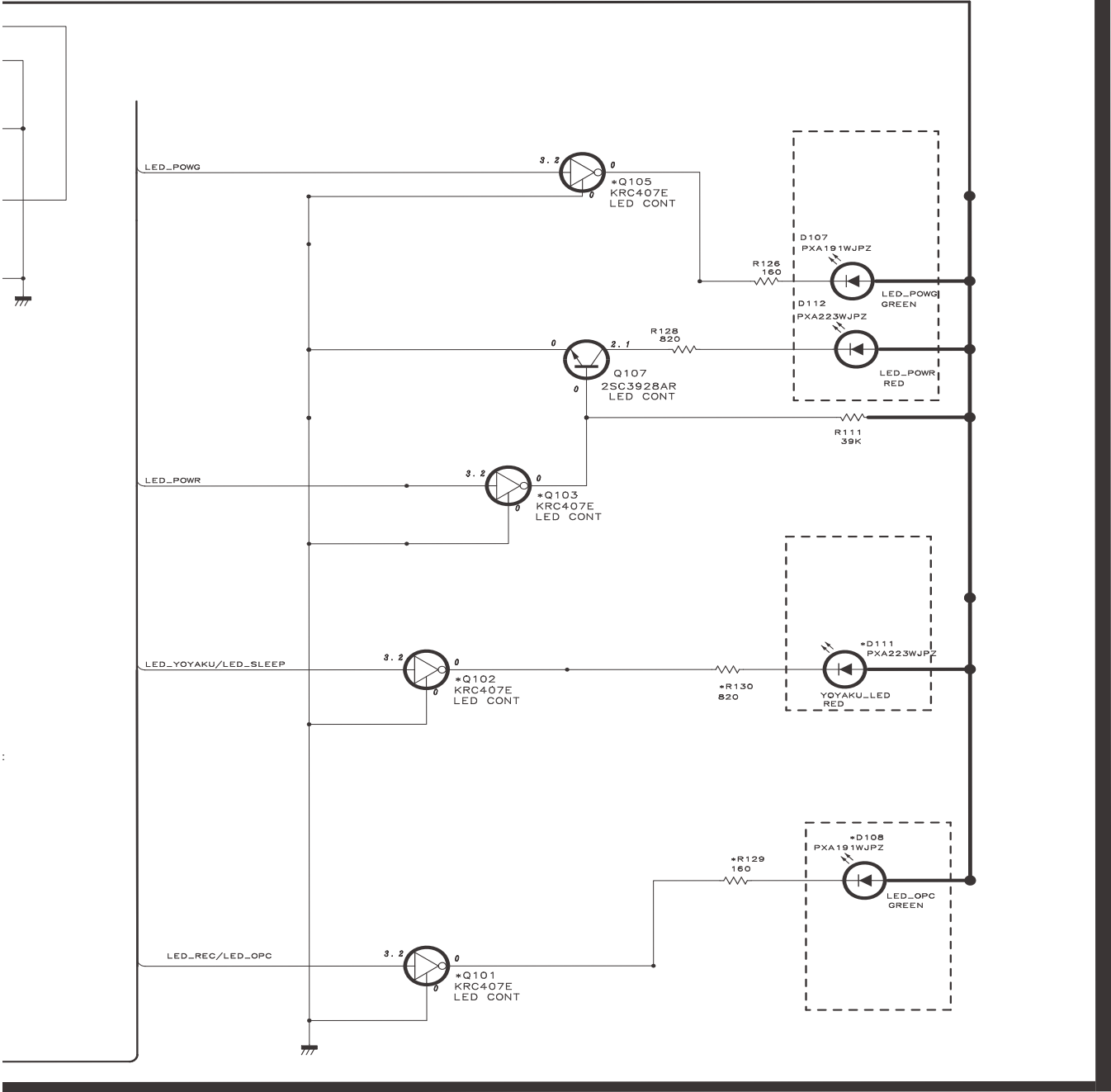
J12(CI)

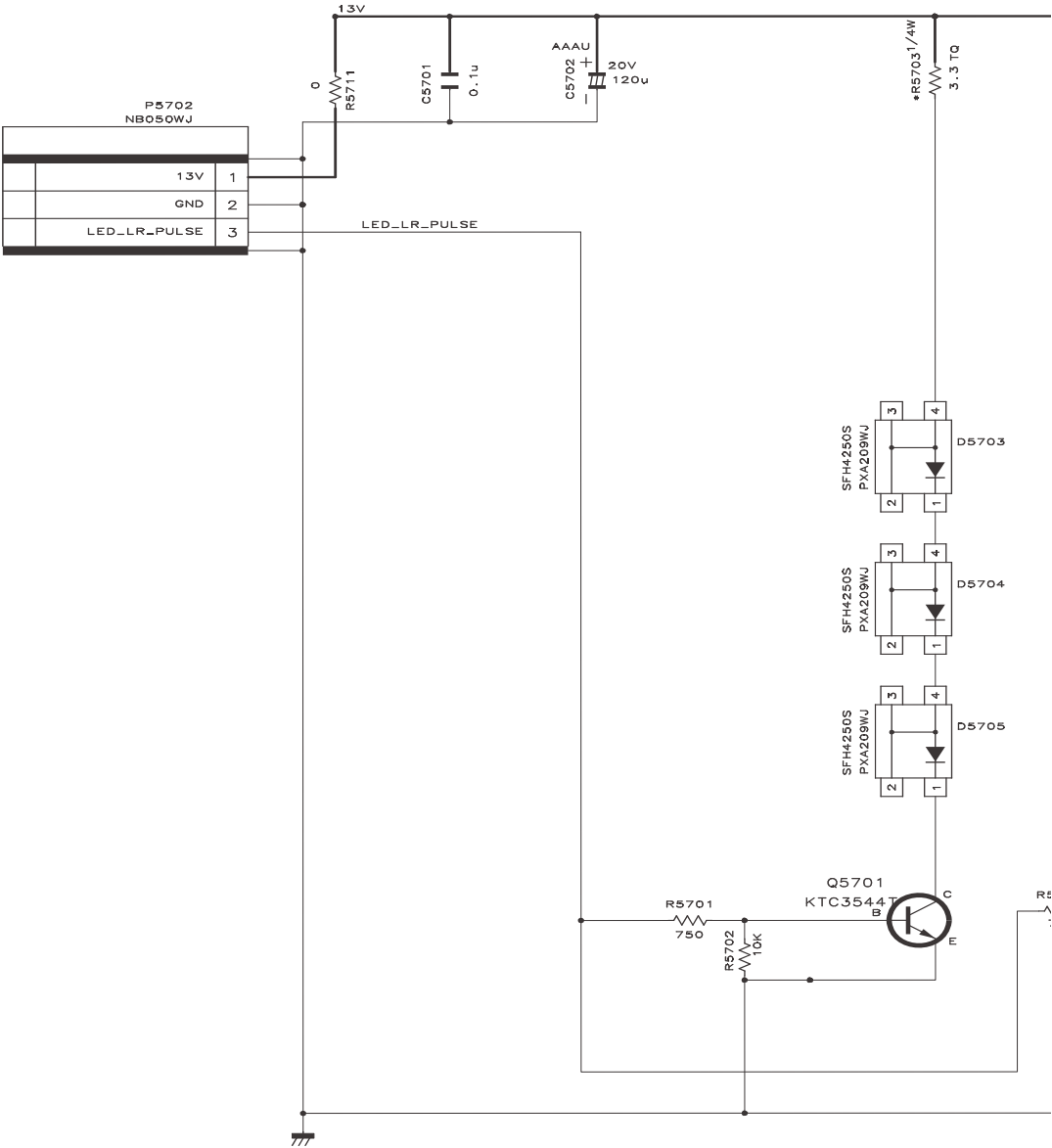


⌋ : OPC→RGB SENSOF

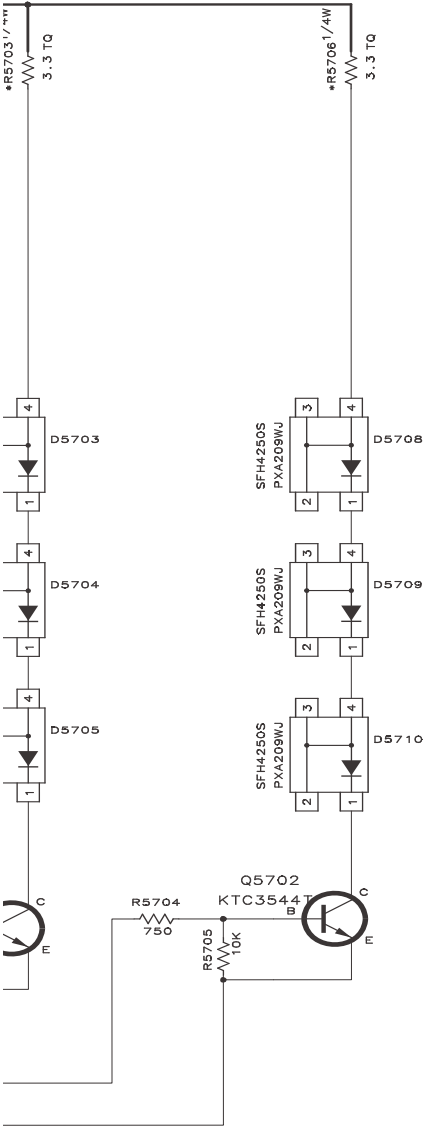


SENSOR

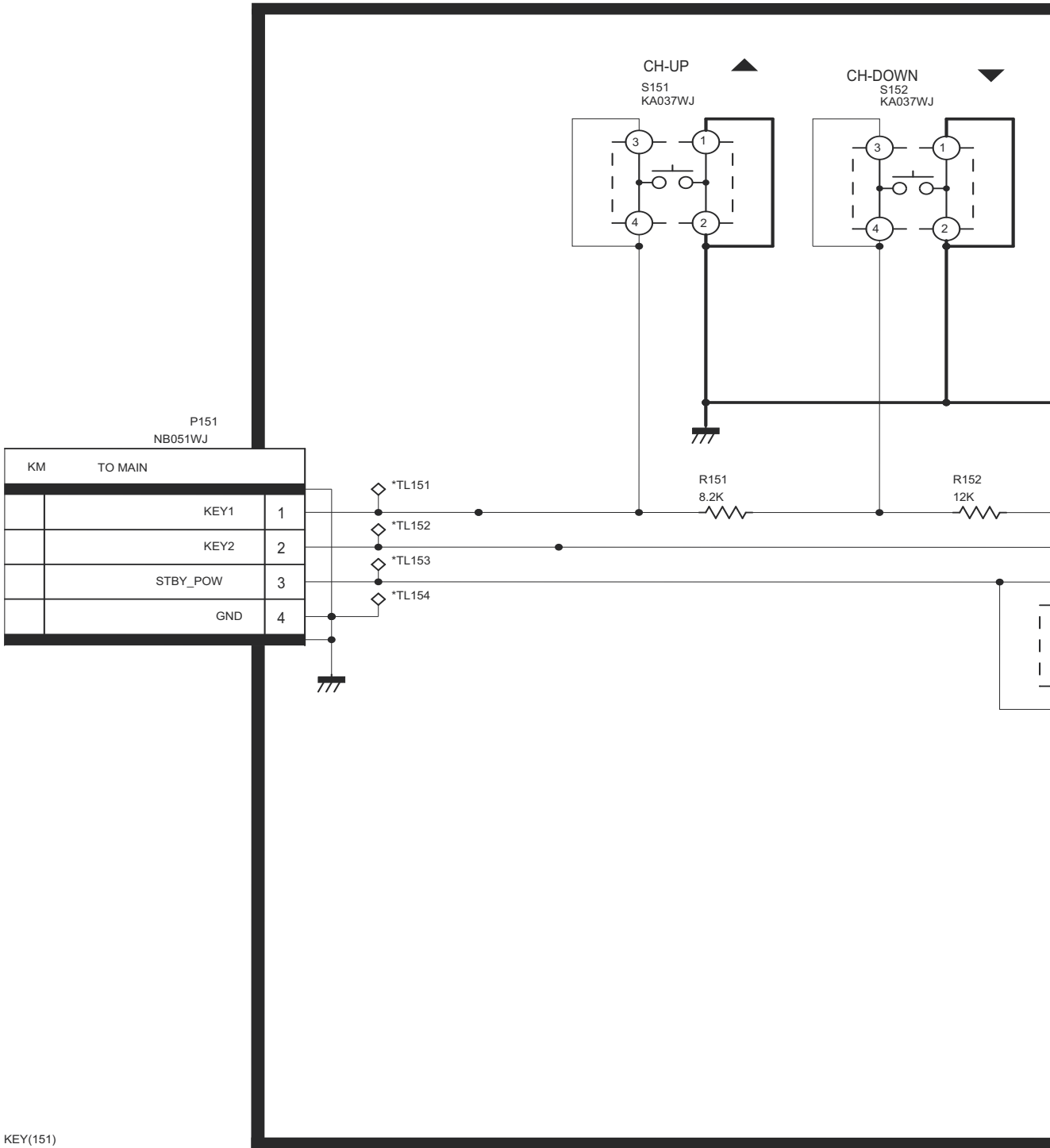




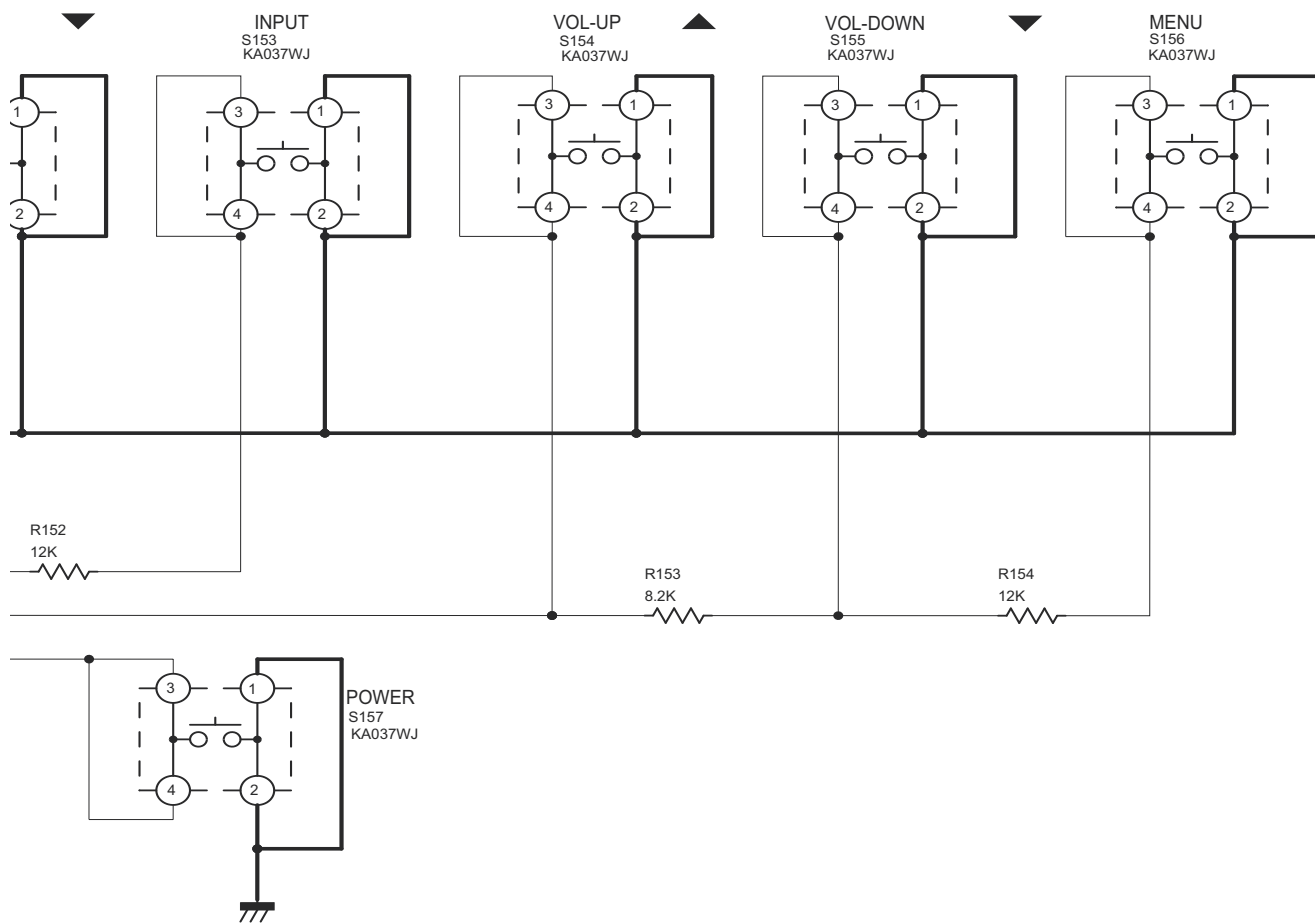
\_EMITTER

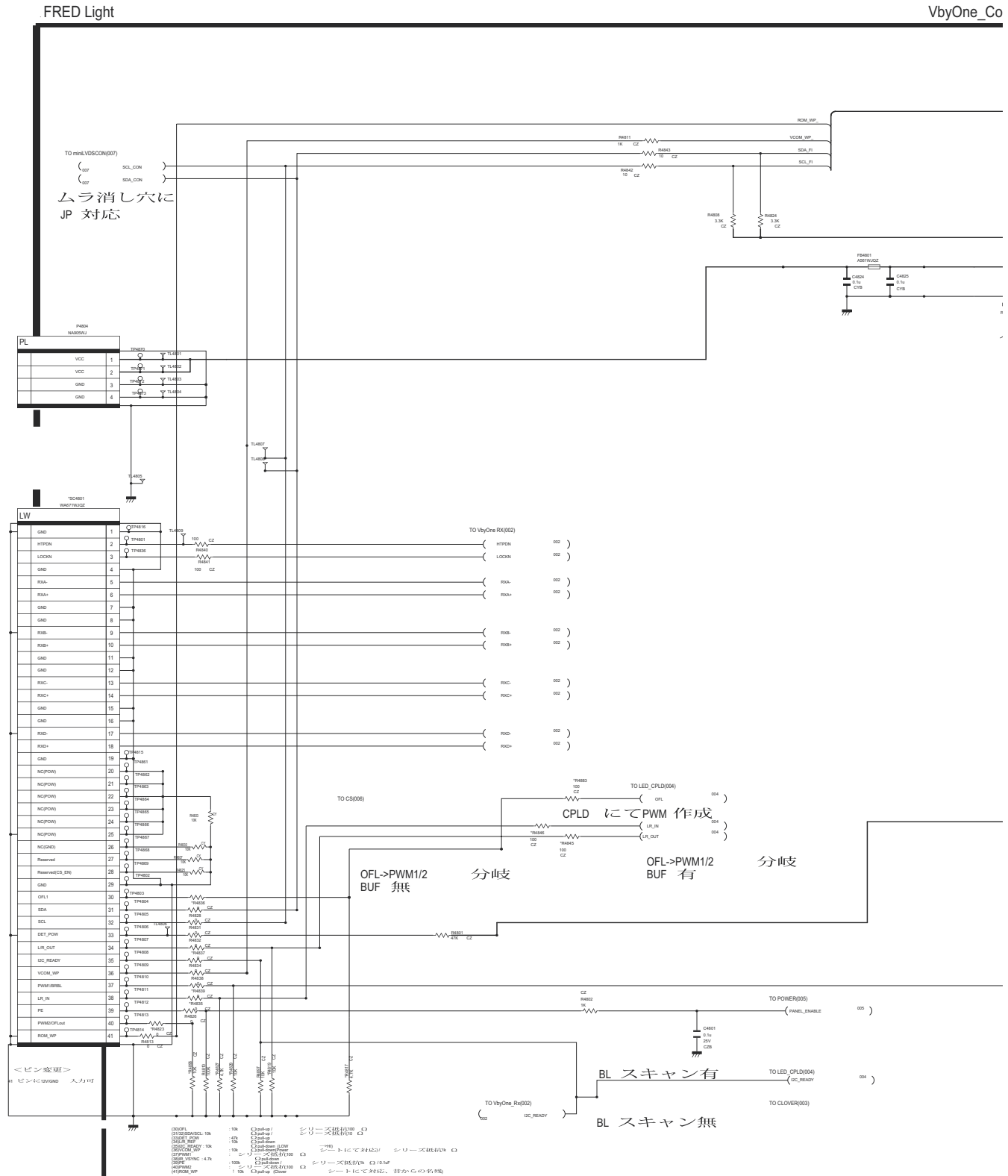


KEY UNIT



KEY(151)

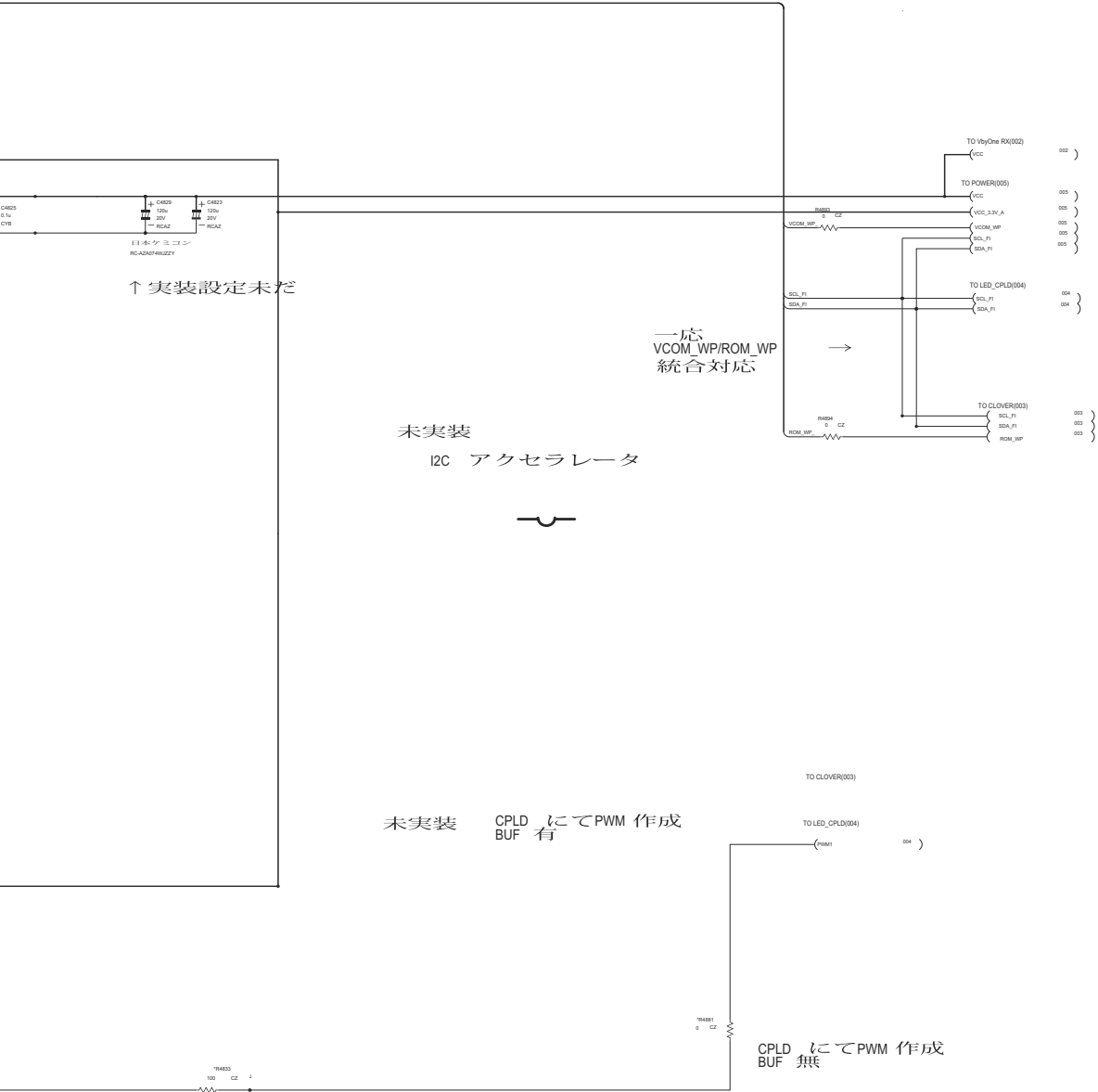






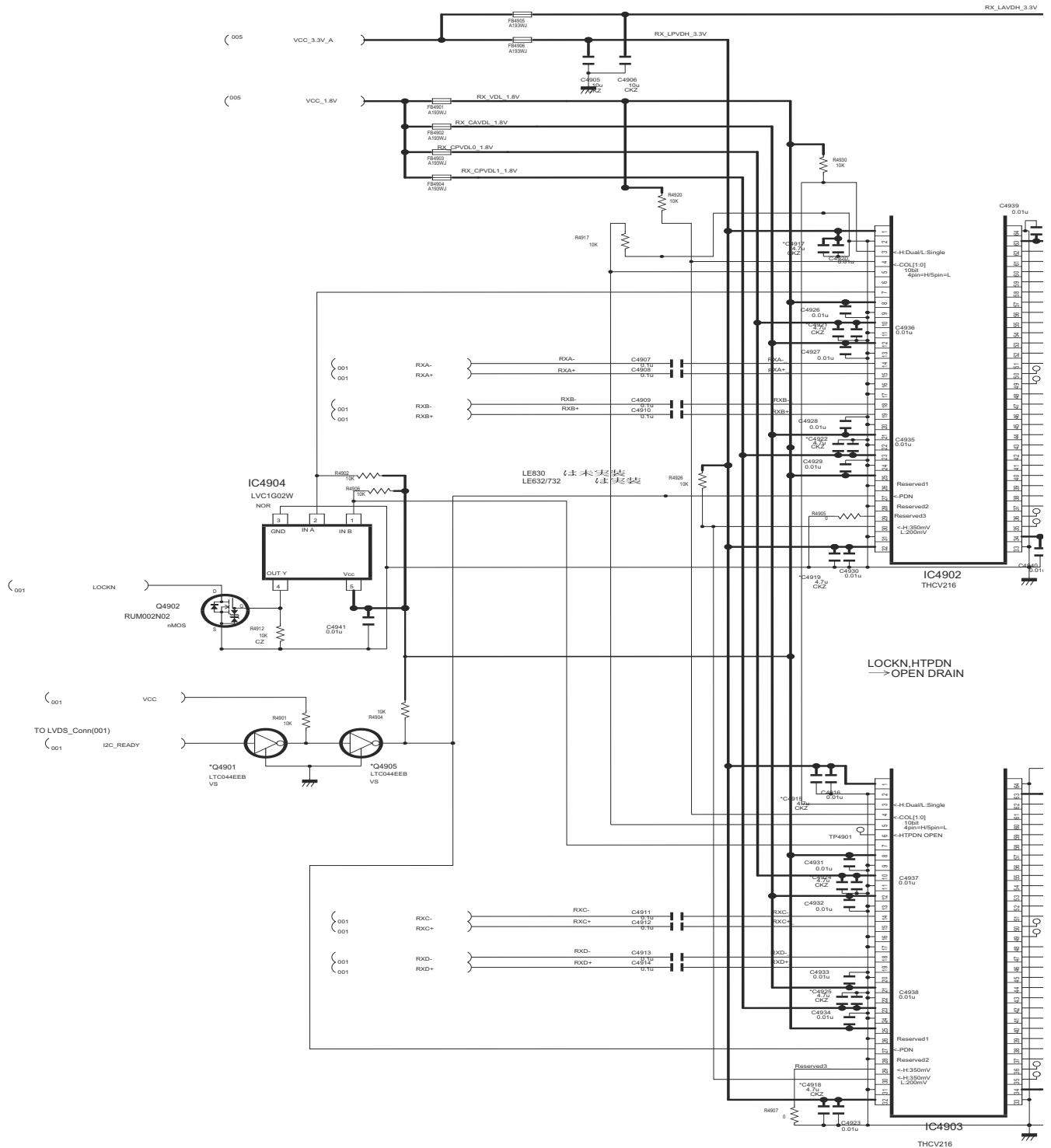
VbyOne\_Connector(001)

LCDCONT UNIT 1/7  
(OKITPF975WJTX)  
(QPWBXF975WJZZ)  
(DUNTKF975xxxx)

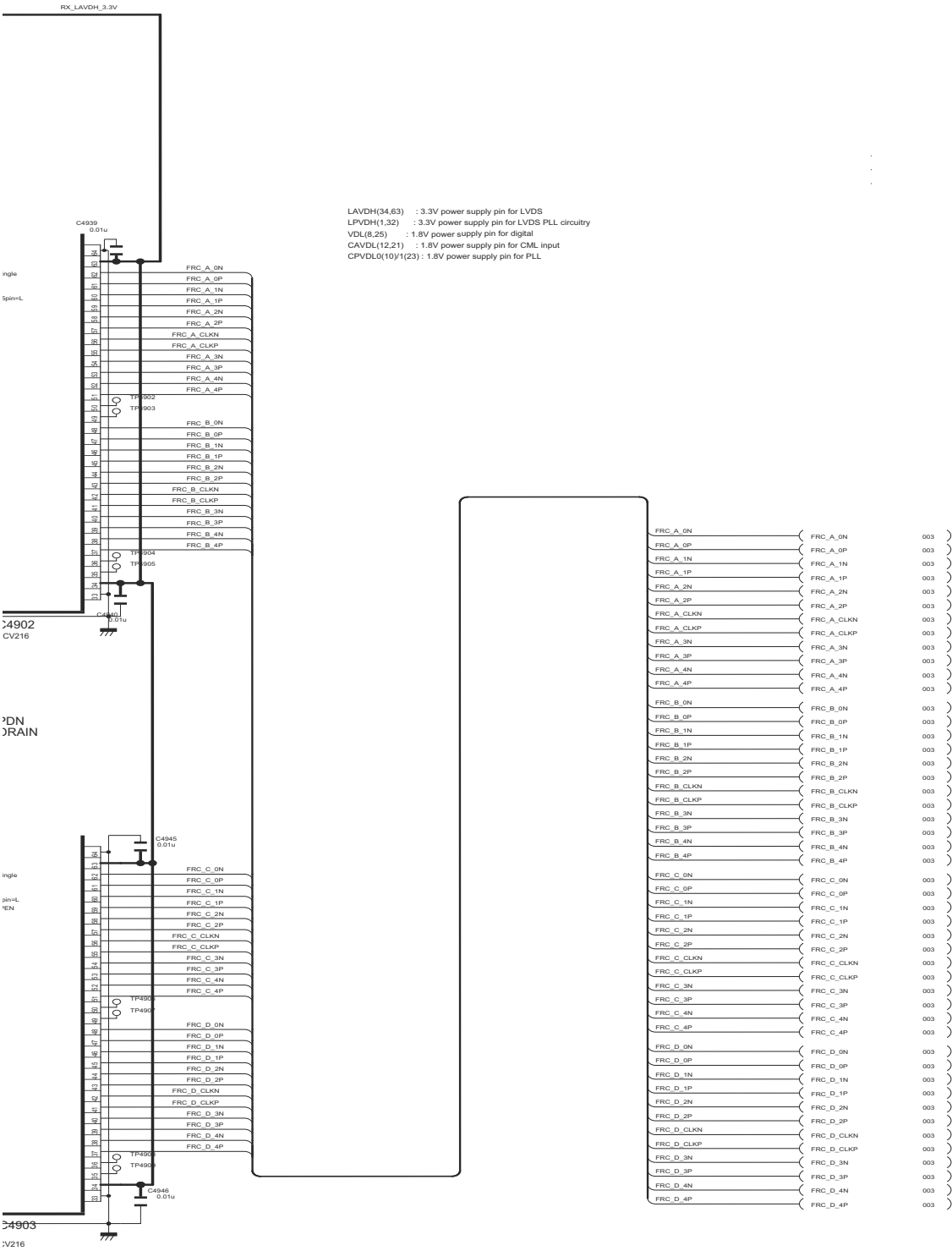


FRED Light

VbyOne RX (002)

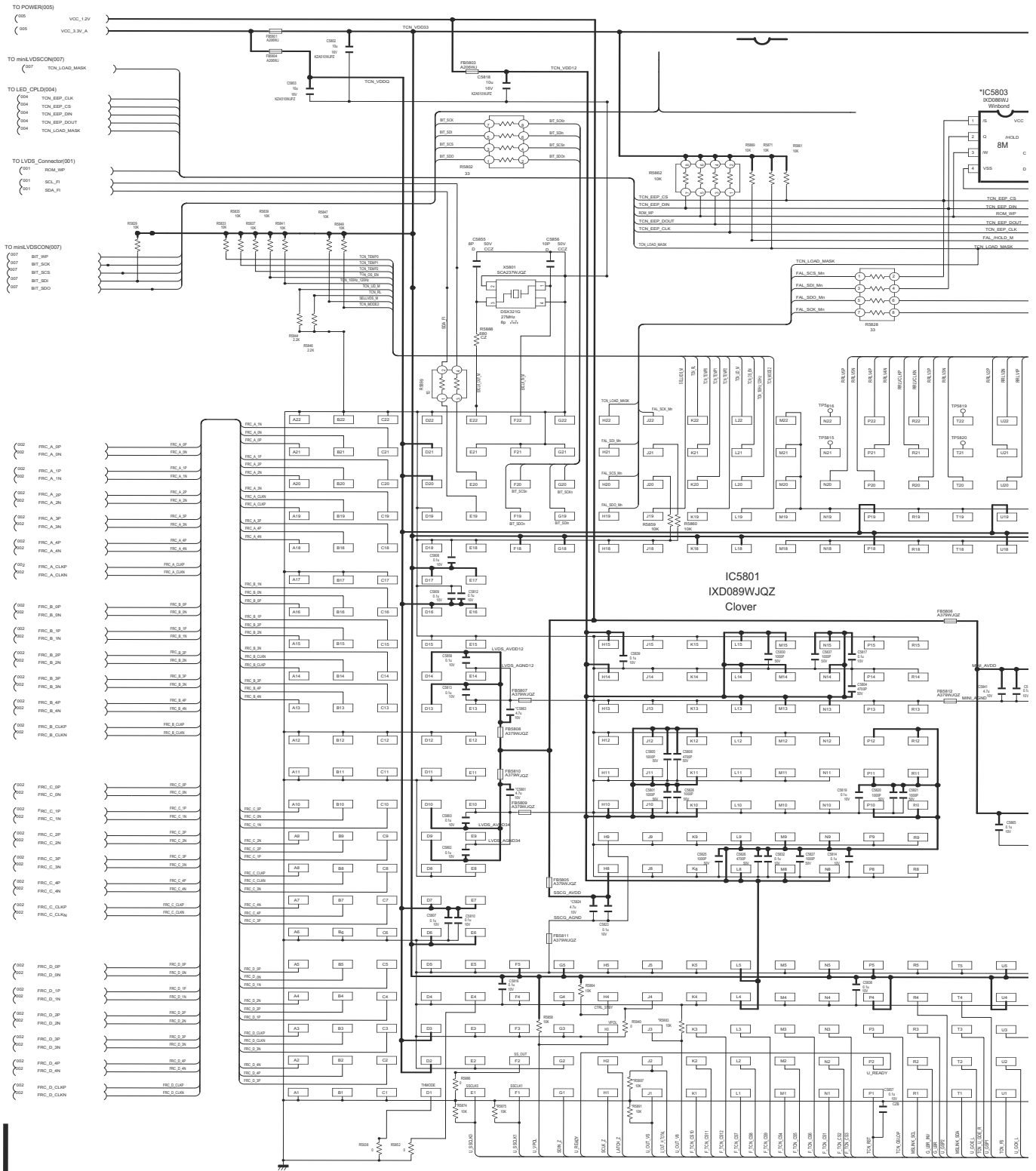


RX (002)



FRED Light

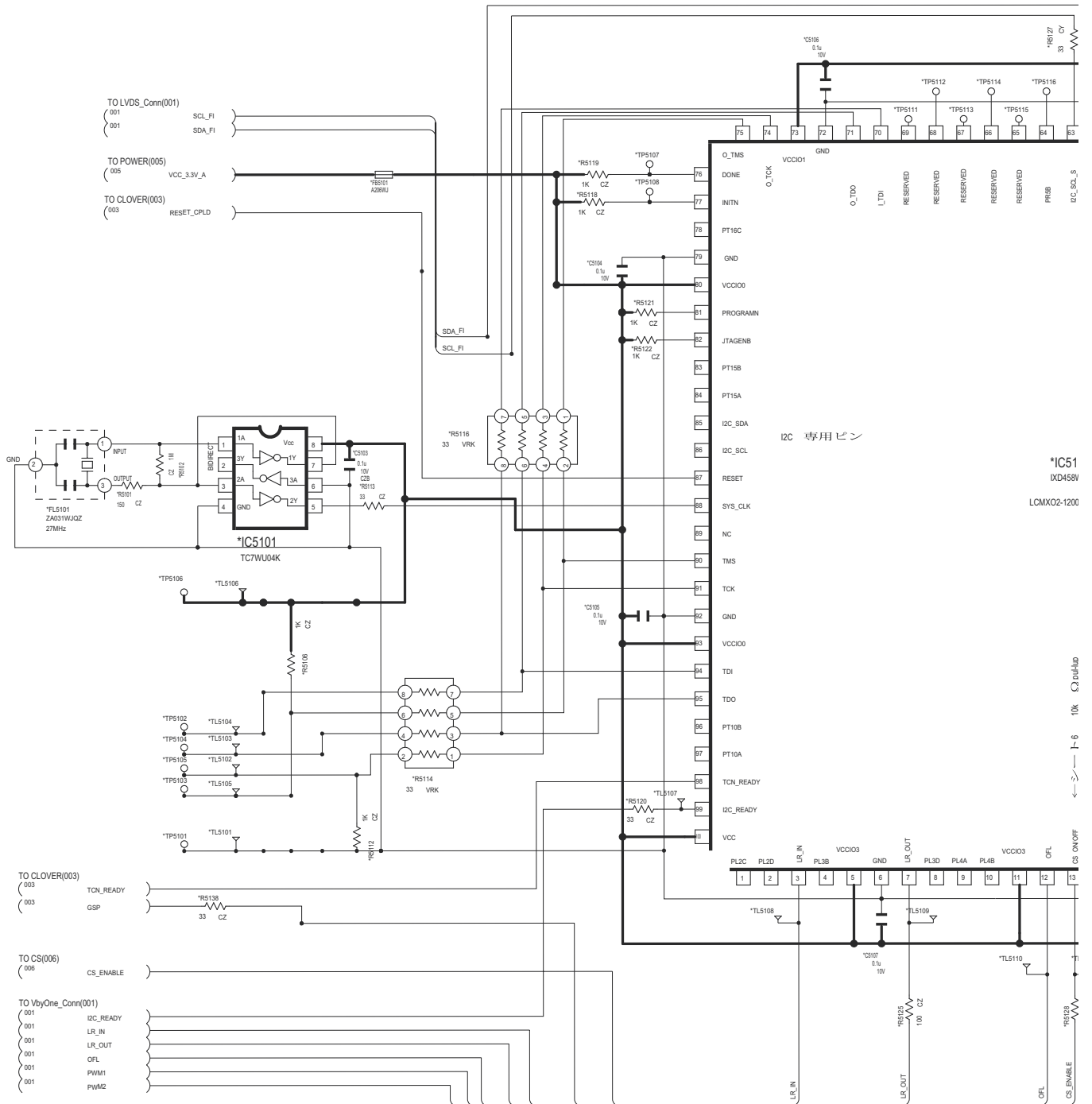
CLOVER(003)



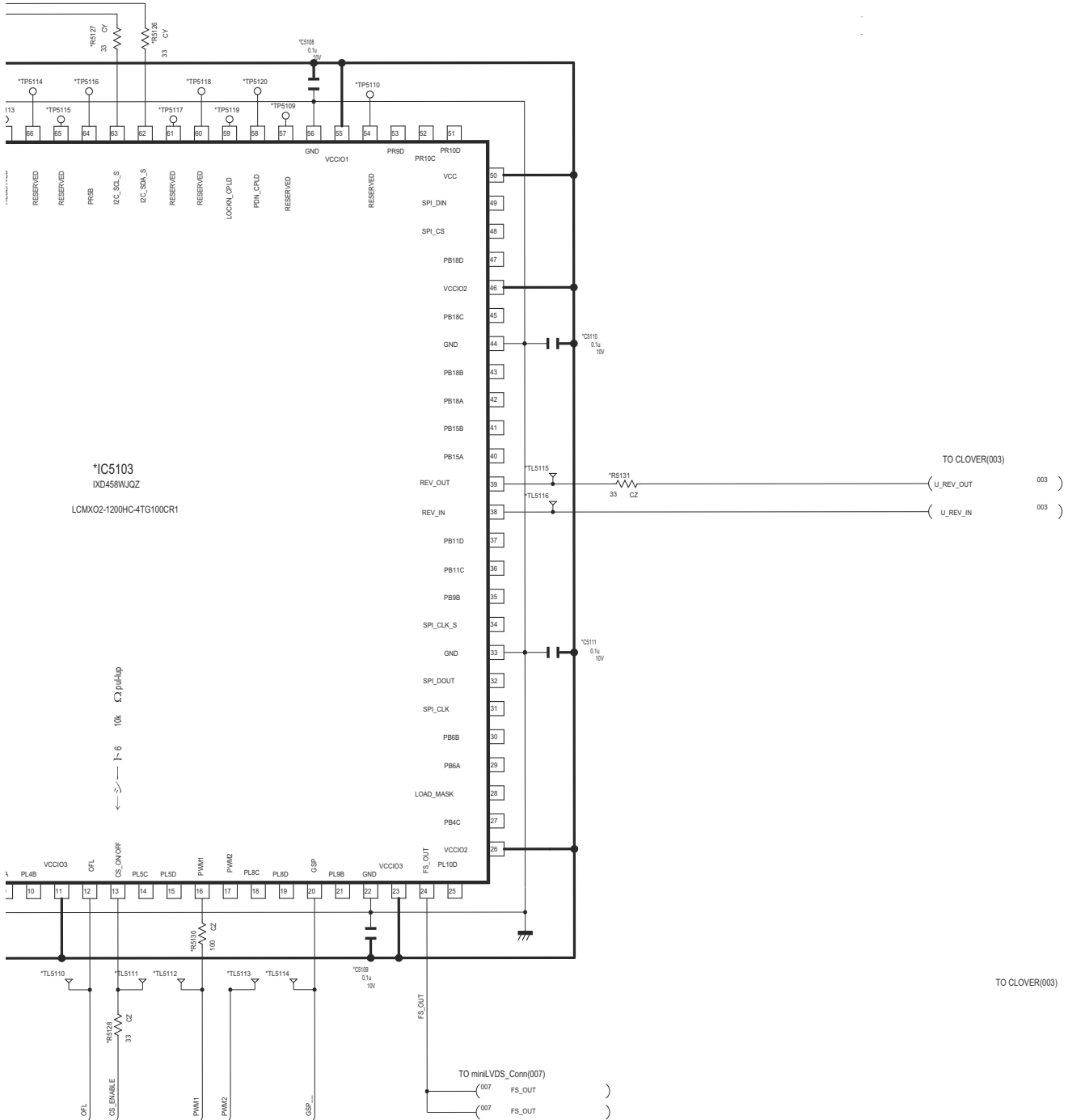


## FRED Light

LED\_CPLD(004)

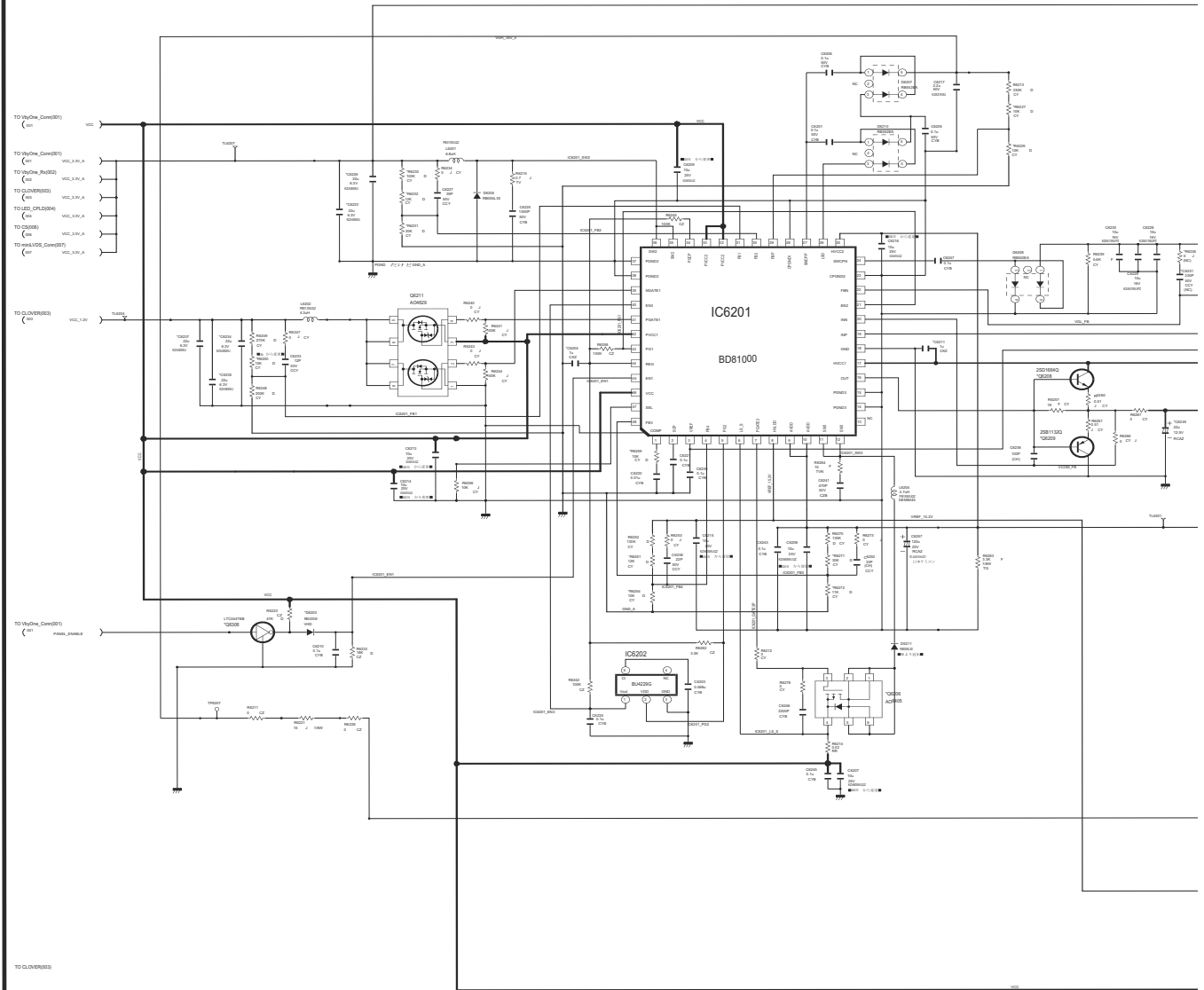


\_CPLD(004)



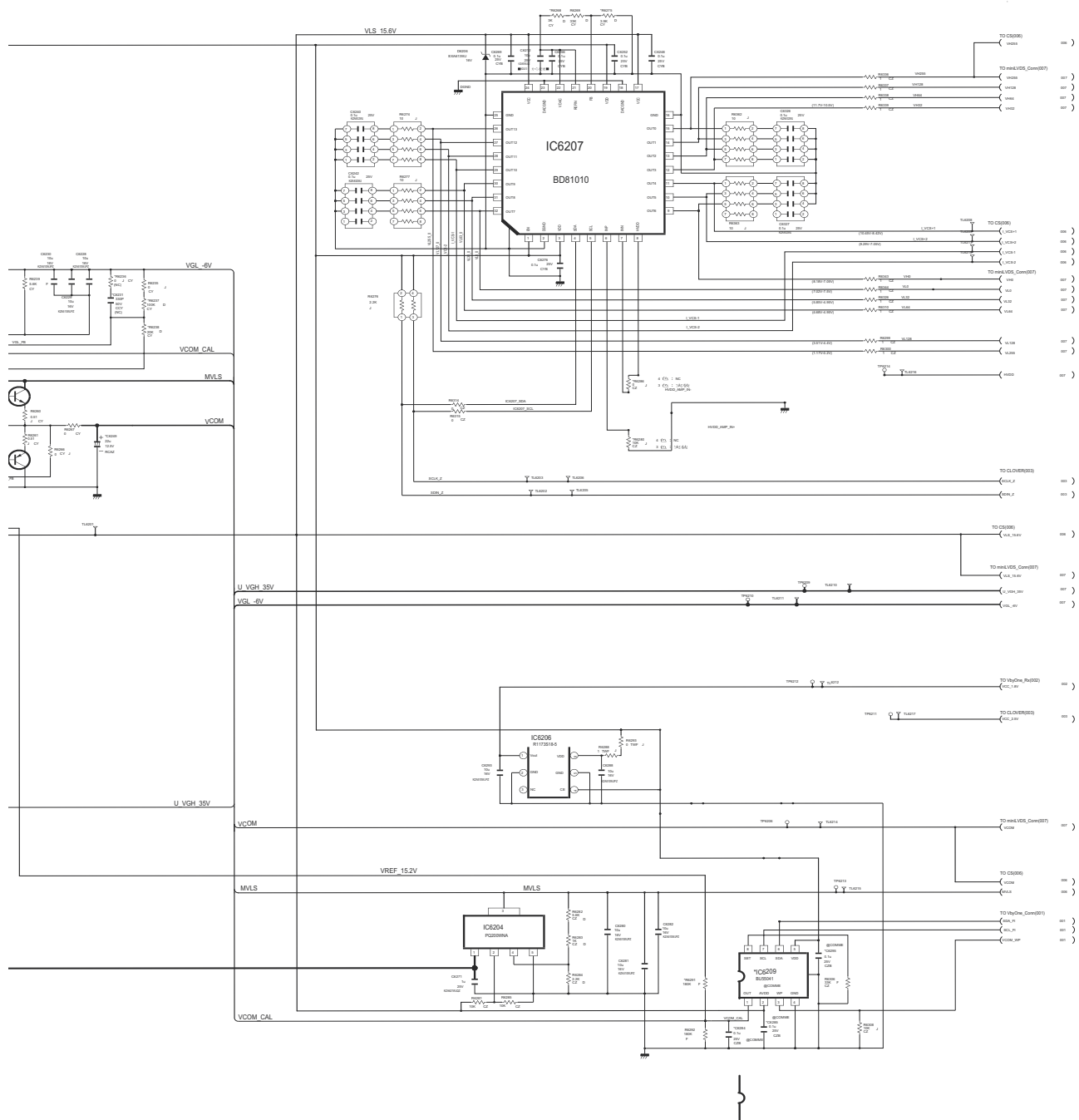
FRED Light

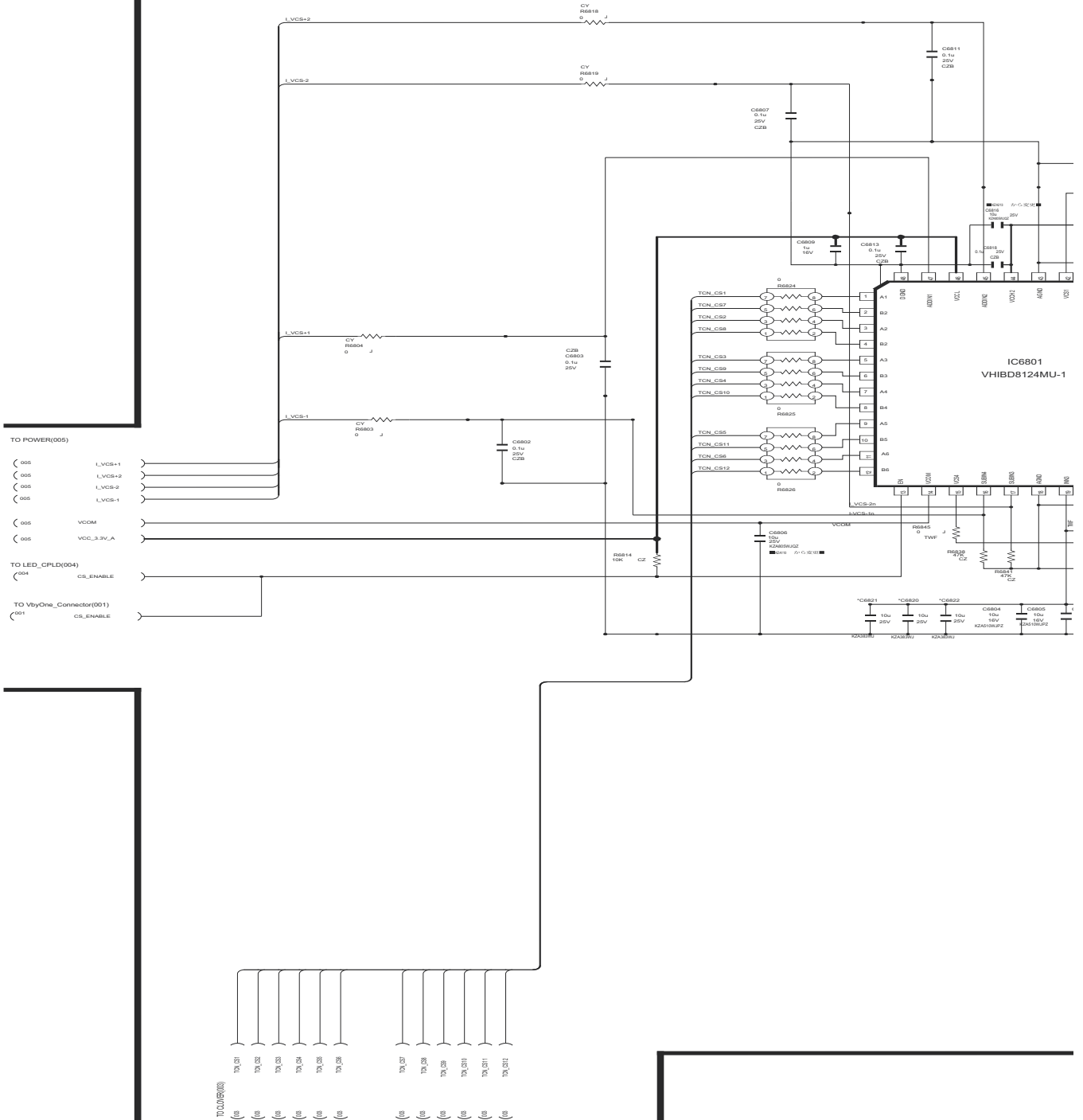
POWER (005)



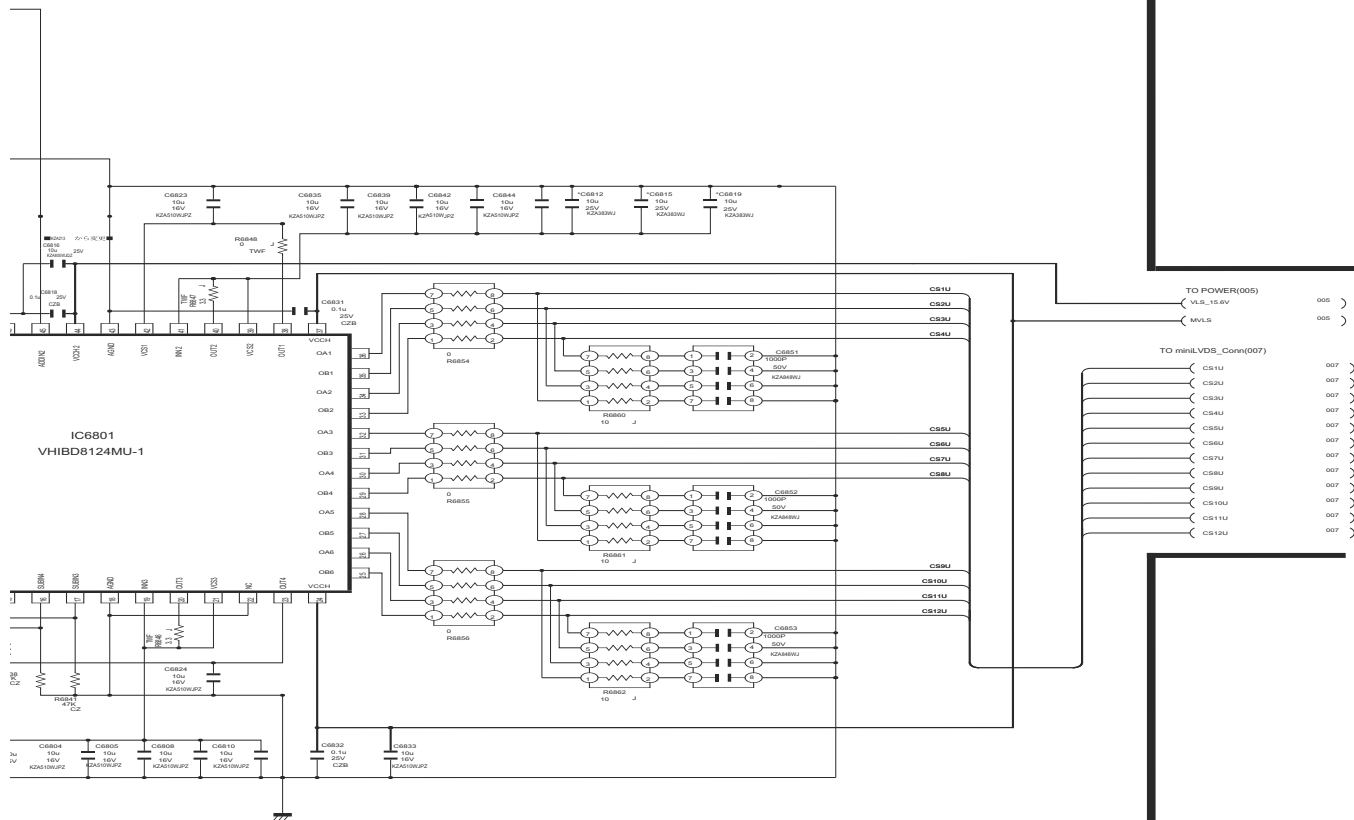


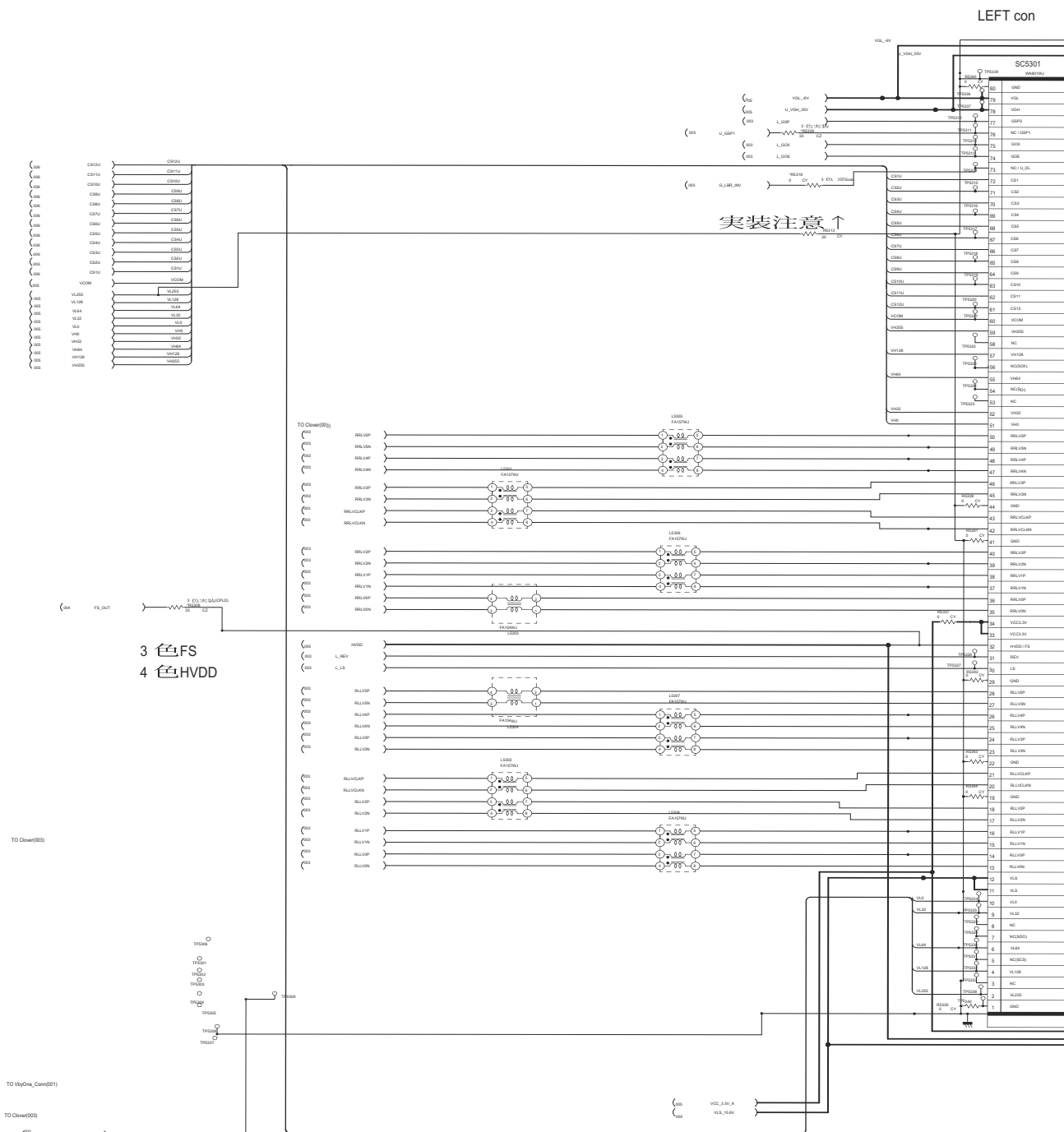
/ER (005)





CS(006)







# SHARP PARTS GUIDE

No. S912M560LE640X

**LCD COLOUR TELEVISION****MODEL LC-60LE640X**

## CONTENTS

- |  |   |
|--|---|
| [1] PRINTED WIRING BOARD<br>ASSEMBLIES | [5] LCD PANEL                                   |
| [2] LCD PANEL                          | [6] SUPPLIED ACCESSORIES                        |
| [3] MAIN UNIT ( DKEYMF953FMH2 )        | [7] PACKING PARTS ( NOT REPLACE-<br>MENT ITEM ) |
| [4] CABINET AND MECHNICAL<br>PARTS     |   |

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.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[1] PRINTED WIRING BOARD ASSEMBLIES</b>					
	DKEYMF953FMH2	CD			MAIN Unit
	RUNTKB057WJQZ	BR			POWER Unit
	DUNTKG016FMF7	AZ			LED/RC Unit
	DUNTKG017FMF7	BB			3DIR Unit
	DUNTKF800FMF8	AY			KEY Unit
<b>[2] LCD PANEL</b>					
	B3KU60L64X				MODULE ASSY
	R1LK600D3GV0AF	CZ			LCD PANEL
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
PWB1001	QPWBXF953WJN1				
FB 0509	RBLN-0104TAZZY	AB			Ferrite Bead
FB 0510	RBLN-0104TAZZY	AB			Ferrite Bead
FB 1105	RBLN-0241TAZZY	AB			Ferrite Bead
FB 1106	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3822	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3823	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3824	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3828	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3829	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3830	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3833	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0520	RBLN-0244TAZZY				Ferrite Bead
FB 1103	RBLN-A192WJZZY	AA			Ferrite Bead
FB 1502	RBLN-A192WJZZY	AA			Ferrite Bead
FB 1503	RBLN-A192WJZZY	AA			Ferrite Bead
FB 2003	RBLN-A192WJZZY	AA			Ferrite Bead
FB 2601	RBLN-A192WJZZY	AA			Ferrite Bead
FB 2604	RBLN-A192WJZZY	AA			Ferrite Bead
FB 3301	RBLN-A192WJZZY	AA			Ferrite Bead
FB 3302	RBLN-A192WJZZY	AA			Ferrite Bead
FB 3307	RBLN-A192WJZZY	AA			Ferrite Bead
FB 9511	RBLN-A192WJZZY	AA			Ferrite Bead
FB 9515	RBLN-A192WJZZY	AA			Ferrite Bead
FB 2001	RBLN-A206WJZZY	AA			Ferrite Bead
FB 2011	RBLN-A206WJZZY	AA			Ferrite Bead
FB 2020	RBLN-A206WJZZY	AA			Ferrite Bead
FB 2026	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3801	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3802	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3804	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3805	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3836	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3837	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3838	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3839	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3841	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3850	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3854	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3855	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3856	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3857	RBLN-A206WJZZY	AA			Ferrite Bead
FB 9513	RBLN-A206WJZZY	AA			Ferrite Bead
FB 9516	RBLN-A206WJZZY	AA			Ferrite Bead
C 2632	RC-KZA520WJQZY	AA			Capacitor
C 2641	RC-KZA520WJQZY	AA			Capacitor
C 2642	RC-KZA520WJQZY	AA			Capacitor
C 3319	RC-KZA520WJQZY	AA			Capacitor
C 3345	RC-KZA520WJQZY	AA			Capacitor
C 3384	RC-KZA520WJQZY	AA			Capacitor
C 9601	RC-KZA520WJQZY	AA			Capacitor
C 9411	RC-KZA523WJQZY	AA			Capacitor
C 1202	RC-KZA621WJQZY	AA			Capacitor
C 1921	RC-KZA709WJQZY				Capacitor 0.22 25V Ceramic
C 1926	RC-KZA709WJQZY				Capacitor 0.22 25V Ceramic
C 1928	RC-KZA709WJQZY				Capacitor 0.22 25V Ceramic
C 1933	RC-KZA709WJQZY				Capacitor 0.22 25V Ceramic
C 0577	RC-KZA761WJQZY	AB			Capacitor
C 1161	RC-KZA761WJQZY	AB			Capacitor
C 3302	RC-KZA761WJQZY	AB			Capacitor
C 3304	RC-KZA761WJQZY	AB			Capacitor
C 3308	RC-KZA761WJQZY	AB			Capacitor
C 3309	RC-KZA761WJQZY	AB			Capacitor
C 3318	RC-KZA761WJQZY	AB			Capacitor
C 3336	RC-KZA761WJQZY	AB			Capacitor
C 3337	RC-KZA761WJQZY	AB			Capacitor
C 3348	RC-KZA761WJQZY	AB			Capacitor
C 3349	RC-KZA761WJQZY	AB			Capacitor
C 1958	RC-KZA806WJQZY	AA			Capacitor
C 1959	RC-KZA806WJQZY	AA			Capacitor
C 9604	RC-KZA806WJQZY	AA			Capacitor
C 9610	RC-KZA806WJQZY	AA			Capacitor
C 9628	RC-KZA806WJQZY	AA			Capacitor
C 9633	RC-KZA806WJQZY	AA			Capacitor

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
C 1129	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1501	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1502	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1503	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1504	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1509	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1722	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1724	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2501	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2606	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2612	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2616	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2621	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2631	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2633	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2637	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2639	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 2644	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3364	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3365	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3366	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3367	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3504	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3507	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3513	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3516	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3521	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3524	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3530	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3533	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9502	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9506	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9507	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9509	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9634	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9635	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9637	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 1904	RC-KZA838WJQZY	AB			Capacitor 10 25V Ceramic
C 1906	RC-KZA838WJQZY	AB			Capacitor 10 25V Ceramic
C 1912	RC-KZA838WJQZY	AB			Capacitor 10 25V Ceramic
X 3301	RCRSCA237WJQZY	AD			Crystal
FL 3501	RFILNA119WJZZY	AC			Filter
FL 3502	RFILNA119WJZZY	AC			Filter
FL 3503	RFILNA119WJZZY	AC			Filter
FL 3504	RFILNA119WJZZY	AC			Filter
FL 3505	RFILNA119WJZZY	AC			Filter
FL 3506	RFILNA119WJZZY	AC			Filter
FL 3507	RFILNA119WJZZY	AC			Filter
FL 3508	RFILNA119WJZZY	AC			Filter
FL 3509	RFILNA119WJZZY	AC			Filter
FL 3510	RFILNA119WJZZY	AC			Filter
FL 3511	RFILNA119WJZZY	AC			Filter
FL 3512	RFILNA119WJZZY	AC			Filter
D 9606	RH-EXA689WJQZY	AB			Zener Diode DZ2J03900L
D 9609	RH-EXA689WJQZY	AB			Zener Diode DZ2J03900L
D 1510	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 9612	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 9614	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 9601	RH-EXA705WJQZY	AB			Zener Diode DZ2J08200L
D 2007	RH-EXA741WJQZY	AB			Zener Diode DZ2J056M0L
D 2008	RH-EXA741WJQZY	AB			Zener Diode DZ2J056M0L
D 2009	RH-EXA741WJQZY	AB			Zener Diode DZ2J056M0L
VA 0535	RH-VXA236WJZZY	AB			Varistor SDV1005H180C120NPT
VA 0536	RH-VXA236WJZZY	AB			Varistor SDV1005H180C120NPT
VA 0542	RH-VXA236WJZZY	AB			Varistor SDV1005H180C120NPT
C 2017	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 2018	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 2019	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 9608	VCCCCZ1HH220JY	AB			Capacitor 22p 50V Ceramic
C 3353	VCCCCZ1HH470JY				Capacitor 47p 50V Ceramic
C 3350	VCCCCZ1HH5R0CY				Capacitor
C 3352	VCCCCZ1HH5R0CY				Capacitor
C 3316	VCKYCZ1CB104MY				Capacitor
C 3317	VCKYCZ1CB104MY				Capacitor
C 0578	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 0579	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1133	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1507	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1508	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1510	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1516	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1517	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1711	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1723	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1725	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic



[illegible]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
C 3360	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3361	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 9404	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 9407	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 9602	VCKYCZ1EB472KY				Capacitor
C 0504	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 0507	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 0520	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 0526	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 1105	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2021	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2022	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2039	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2602	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2605	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2613	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2618	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2635	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2650	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2651	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2652	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2653	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2654	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2655	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 3354	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 2005	VCKYCZ1HB152KY	AB			Capacitor 1500p 50V Ceramic
C 3357	VCKYCZ1HB152KY	AB			Capacitor 1500p 50V Ceramic
C 0545	VCKYCZ1HB471KY	AB			Capacitor 470p 50V Ceramic
D 1703	VHDBAV70+++1Y	AB			Diode BAV70,215
D 2006	VHDBAV70+++1Y	AB			Diode BAV70,215
D 3104	VHDBAV70+++1Y	AB			Diode BAV70,215
D 1513	VHDBAV99+++1Y	AB			Diode BAV99,215
D 1514	VHDBAV99+++1Y	AB			Diode BAV99,215
D 1515	VHDBAV99+++1Y	AB			Diode BAV99,215
D 1516	VHDBAV99+++1Y	AB			Diode BAV99,215
D 1517	VHDBAV99+++1Y	AB			Diode BAV99,215
D 1518	VHDBAV99+++1Y	AB			Diode BAV99,215
D 1519	VHDBAV99+++1Y	AB			Diode BAV99,215
D 1520	VHDBAV99+++1Y	AB			Diode BAV99,215
D 3333	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9405	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9603	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9604	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9605	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9607	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9610	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9611	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 9613	VHDDA1010+-1Y	AA			Diode DA2J10100L
D 1501	VHDRB521M30-1Y	AA			Diode RB521SM-30GJT2R
D 1502	VHDRB521M30-1Y	AA			Diode RB521SM-30GJT2R
D 1503	VHDRB521M30-1Y	AA			Diode RB521SM-30GJT2R
D 1504	VHDRB521M30-1Y	AA			Diode RB521SM-30GJT2R
D 1525	VHDRB521M30-1Y	AA			Diode RB521SM-30GJT2R
IC 3303	VHI3416C33N-1Y				Ic
IC 2008	VHIAHC1G08W-1Y				Ic
IC 9502	VHIBD2246G+-1Y				Ic
IC 9503	VHIBD2246G+-1Y				Ic
IC 2007	VHIBR24T02J-1Y				Ic
IC 2003	VHIBU4227G+-1Y				Ic
IC 2009	VHILVC1G00W-1Y				Ic
IC 1508	VHILVC1G08W-1Y				Ic
IC 1509	VHILVC1G08W-1Y				Ic
IC 1510	VHILVC1G08W-1Y				Ic
IC 2001	VHILVC2G126-1Y				Ic
IC 1507	VHIPS2553DB-1Y				Ic
IC 1104	VHIR1191H50-1Y				Ic
IC 2602	VHIS172B12U-1Y				Ic
IC 3302	VHIS172B12U-1Y				Ic
L 1502	VPMTN1R0JR35NY				-
L 1107	VPRHR100MR47NY				-
R 2069	VRK-SAIJF100JY	AB			Resistor 10 1/16W Metal Composition
R 3139	VRK-SAIJF100JY	AB			Resistor 10 1/16W Metal Composition
R 3319	VRK-SAIJF100JY	AB			Resistor 10 1/16W Metal Composition
R 3321	VRK-SAIJF100JY	AB			Resistor 10 1/16W Metal Composition
R 3348	VRK-SAIJF102JY	AB			Resistor 1k 1/16W Metal Composition
R 3347	VRK-SAIJF182JY	AB			Resistor 1.8k 1/16W Metal Composition
R 3329	VRK-SAIJF221JY	AB			Resistor 220 1/16W Metal Composition
R 3332	VRK-SAIJF472JY	AA			Resistor 4.7k 1/16W Metal Composition
R 2070	VRK-SB1FF103JY	AA			Resistor 10k 1/32W Metal Composition
R 3121	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3122	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3505	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3506	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3507	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3509	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT ( DKEYMF953FMH2 )					
R 3520	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3523	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3524	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3525	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3539	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3540	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3541	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3543	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3553	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3556	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3557	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3558	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 0586	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 0623	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 0628	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 0658	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1149	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1150	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1523	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1550	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1558	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1562	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1564	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1722	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1723	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1724	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1785	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1941	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 2642	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3129	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3130	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3132	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3353	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3387	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3398	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3400	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3405	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3411	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3415	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3420	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3421	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3441	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3457	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3458	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3479	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3480	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3801	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3804	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 9504	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1532	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 1554	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2047	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2048	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2074	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2541	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2620	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2629	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2630	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 2640	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3107	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3111	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3112	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3314	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3325	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3341	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3394	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3423	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3453	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3456	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3473	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3474	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3475	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3476	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3477	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 3478	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 9608	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 9612	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 9624	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 9629	VRS-CZ1JF100JY	AB			Resistor 10 1/16W Metal Oxide
R 1542	VRS-CZ1JF101JY	AA			Resistor 100 1/16W Metal Oxide
R 2003	VRS-CZ1JF101JY	AA			Resistor 100 1/16W Metal Oxide
R 2078	VRS-CZ1JF101JY	AA			Resistor 100 1/16W Metal Oxide
R 2694	VRS-CZ1JF101JY	AA			Resistor 100 1/16W Metal Oxide
R 3351	VRS-CZ1JF101JY	AA			Resistor 100 1/16W Metal Oxide
R 3434	VRS-CZ1JF101JY	AA			Resistor 100 1/16W Metal Oxide



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
R 3364	VRS-CZ1JF303JY	AA			Resistor 30k 1/16W Metal Oxide
R 1512	VRS-CZ1JF304JY	AA			Resistor 300k 1/16W Metal Oxide
R 3301	VRS-CZ1JF331FY	AA			Resistor 330 1/16W Metal Oxide
R 3302	VRS-CZ1JF331FY	AA			Resistor 330 1/16W Metal Oxide
R 9505	VRS-CZ1JF393JY	AA			Resistor 39k 1/16W Metal Oxide
R 1218	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3104	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3316	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3358	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3376	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3399	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3502	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3503	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3517	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3544	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3545	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3560	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 0572	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 0573	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 0575	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 0672	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 1501	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2007	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2011	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2021	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2030	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2032	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2034	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2632	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2633	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3101	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3105	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3108	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3109	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3113	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3118	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3160	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3313	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 1573	VRS-CZ1JF473FY	AA			Resistor 47k 1/16W Metal Oxide
R 1574	VRS-CZ1JF473FY	AA			Resistor 47k 1/16W Metal Oxide
R 1525	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1551	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1552	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1964	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1970	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 2657	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 2662	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 3110	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 9502	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 9507	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 9606	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 9620	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1556	VRS-CZ1JF474JY	AA			Resistor 470k 1/16W Metal Oxide
R 9615	VRS-CZ1JF562JY	AA			Resistor 5.6k 1/16W Metal Oxide
R 9622	VRS-CZ1JF562JY	AA			Resistor 5.6k 1/16W Metal Oxide
R 3350	VRS-CZ1JF680JY	AA			Resistor 68 1/16W Metal Oxide
R 3352	VRS-CZ1JF680JY	AA			Resistor 68 1/16W Metal Oxide
R 3354	VRS-CZ1JF680JY	AA			Resistor 68 1/16W Metal Oxide
R 9621	VRS-CZ1JF683FY	AA			Resistor 68k 1/16W Metal Oxide
R 3448	VRS-CZ1JF750JY	AA			Resistor 75 1/16W Metal Oxide
R 9401	VRS-CZ1JF751FY	AA			Resistor 750 1/16W Metal Oxide
R 9402	VRS-CZ1JF751FY	AA			Resistor 750 1/16W Metal Oxide
R 9403	VRS-CZ1JF751FY	AA			Resistor 750 1/16W Metal Oxide
R 9404	VRS-CZ1JF751FY	AA			Resistor 750 1/16W Metal Oxide
R 1519	VRS-CZ1JF752JY	AA			Resistor 7.5k 1/16W Metal Oxide
R 1538	VRS-CZ1JF752JY	AA			Resistor 7.5k 1/16W Metal Oxide
R 0580	VRS-TQ2EF750JY				Resistor
R 1974	VRS-TV1JD000JY	AA			Resistor 0 1/16W Metal Oxide
R 1976	VRS-TV1JD000JY	AA			Resistor 0 1/16W Metal Oxide
R 1977	VRS-TV1JD000JY	AA			Resistor 0 1/16W Metal Oxide
R 1978	VRS-TV1JD000JY	AA			Resistor 0 1/16W Metal Oxide
R 1984	VRS-TV1JD000JY	AA			Resistor 0 1/16W Metal Oxide
R 1985	VRS-TV1JD000JY	AA			Resistor 0 1/16W Metal Oxide
R 1986	VRS-TV1JD000JY	AA			Resistor 0 1/16W Metal Oxide
Q 0506	VSIMH23T110-1Y				Transistor
Q 0510	VSISA1530AC-1Y				Transistor
Q 1509	VSKTA1535T+-1Y				Transistor
Q 1701	VSRTIN141C/-1Y				Transistor
Q 2001	VSRTIN141C/-1Y				Transistor
Q 2006	VSRTIN141C/-1Y				Transistor
Q 2007	VSRTIN141C/-1Y				Transistor
Q 2009	VSRTIN141C/-1Y				Transistor
Q 9604	VSRTIN141C/-1Y				Transistor
Q 1506	VSRT3K33M+-1Y				Transistor
Q 2601	VSRT3K33M+-1Y				Transistor

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
-	ZHNDAL85-R01E				orZHNDAL63-R01E
SC 3801	QCNCWA671WJQZY				Socket
SC 3101	QCNCWA959WJQZY				Socket
J 0501	QJAKEA111WJQZY				Jack
P 3802	QPLGNA905WJZZY				Plug
P 1903	QPLGNA906WJZZY				Plug
P 2001	QPLGNB062WJZZY				Plug
J 9501	QSOCZA265WJQZY				Jack
J 9502	QSOCZA265WJQZY				Jack
J 9503	QSOCZA265WJQZY				Jack
SC 1501	QSOCZA321WJQZY				Socket
SC 1502	QSOCZA321WJQZY				Socket
SC 1503	QSOCZA321WJQZY				Socket
SC 1504	QSOCZA321WJQZY				Socket
FB 0502	RBLN-0104TAZZY	AB			Ferrite Bead
FB 0503	RBLN-0104TAZZY	AB			Ferrite Bead
FB 0521	RBLN-0104TAZZY	AB			Ferrite Bead
FB 0522	RBLN-0104TAZZY	AB			Ferrite Bead
FB 0532	RBLN-0104TAZZY	AB			Ferrite Bead
FB 0536	RBLN-0104TAZZY	AB			Ferrite Bead
FB 0504	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0505	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0506	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0507	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0523	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0525	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0527	RBLN-0241TAZZY	AB			Ferrite Bead
FB 1109	RBLN-0241TAZZY	AB			Ferrite Bead
FB 1110	RBLN-0241TAZZY	AB			Ferrite Bead
FB 1111	RBLN-0241TAZZY	AB			Ferrite Bead
FB 1112	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2002	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2004	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2006	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2007	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2008	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2009	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2012	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2013	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2014	RBLN-0241TAZZY	AB			Ferrite Bead
FB 2027	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3807	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3809	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3810	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3811	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3812	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3813	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3814	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3815	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3816	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3819	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3821	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3825	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3826	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3827	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3831	RBLN-0241TAZZY	AB			Ferrite Bead
FB 3853	RBLN-0241TAZZY	AB			Ferrite Bead
FB 0531	RBLN-0244TAZZY				Ferrite Bead
FB 0549	RBLN-0244TAZZY				Ferrite Bead
FB 0550	RBLN-0244TAZZY				Ferrite Bead
FB 0551	RBLN-0244TAZZY				Ferrite Bead
FB 3306	RBLN-1043CEZZY	AB			Ferrite Bead
FB 2605	RBLN-A192WJZZY	AA			Ferrite Bead
FB 2606	RBLN-A192WJZZY	AA			Ferrite Bead
FB 3806	RBLN-A192WJZZY	AA			Ferrite Bead
FB 9601	RBLN-A192WJZZY	AA			Ferrite Bead
FB 3817	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3818	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3834	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3835	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3840	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3848	RBLN-A206WJZZY	AA			Ferrite Bead
FB 3851	RBLN-A206WJZZY	AA			Ferrite Bead
FB 9510	RBLN-A206WJZZY	AA			Ferrite Bead
FB 9512	RBLN-A206WJZZY	AA			Ferrite Bead
FB 9602	RBLN-A206WJZZY	AA			Ferrite Bead
FB 9603	RBLN-A206WJZZY	AA			Ferrite Bead
FB 9604	RBLN-A206WJZZY	AA			Ferrite Bead
FB 0533	RBLN-A527WJZZY	AB			Ferrite Bead
FB 0534	RBLN-A527WJZZY	AB			Ferrite Bead
FB 0535	RBLN-A527WJZZY	AB			Ferrite Bead
C 9612	RC-KZA214WJZZY	AD			Capacitor
C 9613	RC-KZA214WJZZY	AD			Capacitor
C 9614	RC-KZA214WJZZY	AD			Capacitor
C 9615	RC-KZA214WJZZY	AD			Capacitor

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
C 9621	RC-KZA214WJZZY	AD			Capacitor
C 9625	RC-KZA214WJZZY	AD			Capacitor
C 9626	RC-KZA214WJZZY	AD			Capacitor
C 9640	RC-KZA214WJZZY	AD			Capacitor
C 1709	RC-KZA520WJQZY	AA			Capacitor
C 1710	RC-KZA520WJQZY	AA			Capacitor
C 1714	RC-KZA520WJQZY	AA			Capacitor
C 1719	RC-KZA520WJQZY	AA			Capacitor
C 1726	RC-KZA520WJQZY	AA			Capacitor
C 1727	RC-KZA520WJQZY	AA			Capacitor
C 1914	RC-KZA520WJQZY	AA			Capacitor
C 1957	RC-KZA520WJQZY	AA			Capacitor
C 2625	RC-KZA520WJQZY	AA			Capacitor
C 2636	RC-KZA520WJQZY	AA			Capacitor
C 2640	RC-KZA520WJQZY	AA			Capacitor
C 2643	RC-KZA520WJQZY	AA			Capacitor
C 9616	RC-KZA520WJQZY	AA			Capacitor
C 9618	RC-KZA520WJQZY	AA			Capacitor
C 9622	RC-KZA520WJQZY	AA			Capacitor
C 9631	RC-KZA520WJQZY	AA			Capacitor
C 9632	RC-KZA520WJQZY	AA			Capacitor
C 9638	RC-KZA520WJQZY	AA			Capacitor
C 1917	RC-KZA621WJQZY	AA			Capacitor
C 1918	RC-KZA621WJQZY	AA			Capacitor
C 1930	RC-KZA621WJQZY	AA			Capacitor
C 1934	RC-KZA621WJQZY	AA			Capacitor
C 1732	RC-KZA709WJQZY	AA			Capacitor
C 1919	RC-KZA709WJQZY	AA			Capacitor
C 1924	RC-KZA709WJQZY	AA			Capacitor
C 1195	RC-KZA761WJQZY	AB			Capacitor
C 1196	RC-KZA761WJQZY	AB			Capacitor
C 9606	RC-KZA805WJQZY	AB			Capacitor
C 9620	RC-KZA805WJQZY	AB			Capacitor
C 9623	RC-KZA805WJQZY	AB			Capacitor
C 9641	RC-KZA805WJQZY	AB			Capacitor
C 9605	RC-KZA806WJQZY	AA			Capacitor
C 9624	RC-KZA806WJQZY	AA			Capacitor
C 1127	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3370	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3371	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3394	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 3395	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9501	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9505	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
C 9609	RC-KZA838WJQZY	AB			Capacitor 10 25V Ceramic
C 9630	RC-KZA838WJQZY	AB			Capacitor 10 25V Ceramic
L 2501	RCILFA294WJZZY	AB			Coil
L 2502	RCILFA294WJZZY	AB			Coil
L 2503	RCILFA294WJZZY	AB			Coil
L 2504	RCILFA294WJZZY	AB			Coil
L 3801	RCILFA294WJZZY	AB			Coil
L 3802	RCILFA294WJZZY	AB			Coil
L 3803	RCILFA294WJZZY	AB			Coil
L 3804	RCILFA294WJZZY	AB			Coil
L 9503	RCILFA294WJZZY	AB			Coil
L 9504	RCILFA294WJZZY	AB			Coil
L 9506	RCILFA294WJZZY	AB			Coil
L 9507	RCILFA294WJZZY	AB			Coil
L 9602	RCILPA754WJQZY				Coil
L 9603	RCILPB011WJQZY				Coil
L 9604	RCILPB011WJQZY				Coil
L 9605	RCILPB011WJQZY				Coil
L 9601	RCILPB015WJQZY				Coil
L 1903	RCILPB106WJZZY	AC			Coil
L 1904	RCILPB106WJZZY	AC			Coil
L 1907	RCILPB106WJZZY	AC			Coil
L 1908	RCILPB106WJZZY	AC			Coil
X 2001	RCRSC0032TAZZY				Crystal
X 1701	RCRSCA235WJQZY	AD			Crystal
FL 2001	RFILCA005WJZZY				Filter
D 0507	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 0508	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 0509	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 0510	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 0515	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
D 0525	RH-EXA697WJQZY	AB			Zener Diode DZ2J05600L
IC 2004	RH-IXD241WJQZQ				IC
IC 3103	RH-IXD389WJQZQ				IC
IC 3501	RH-IXD405WJQZQ	AP			IC
IC 3502	RH-IXD405WJQZQ	AP			IC
IC 3503	RH-IXD406WJQZQ	AL			IC
IC 3504	RH-IXD406WJQZQ	AL			IC
IC 3301	RH-IXD414WJN3Q				IC
D 3322	RH-PXA230WJPZY				Diod
Q 9605	RH-TXA042WJZZY				Transistor

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
VA 0523	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 0524	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 0525	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 0543	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 0544	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 0545	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 9501	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 9502	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 9503	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 9504	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 9505	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 9506	RH-VXA074WJZZY	AB			Varistor AVRL101A1R1NTB
VA 0501	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0502	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0516	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0517	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0518	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0521	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0522	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0526	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
VA 0527	RH-VXA236WJZZY	AA			Varistor SDV1005H180C120NPT
T 9401	RTRNZA143WJQZY	AF			Trans. TRANSforMER
C 0621	VCCCCZ1HH100DY	AB			Capacitor 10p 50V Ceramic
C 0622	VCCCCZ1HH100DY	AB			Capacitor 10p 50V Ceramic
C 0623	VCCCCZ1HH100DY	AB			Capacitor 10p 50V Ceramic
C 1106	VCCCCZ1HH100DY	AB			Capacitor 10p 50V Ceramic
C 1108	VCCCCZ1HH100DY	AB			Capacitor 10p 50V Ceramic
C 2029	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 3401	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 3813	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 3815	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 3816	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 3818	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 3822	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 1703	VCCCCZ1HH120GY	AA			Capacitor 12p 50V Ceramic
C 1702	VCCCCZ1HH150GY	AA			Capacitor 15p 50V Ceramic
C 2006	VCCCCZ1HH150JY	AB			Capacitor 15p 50V Ceramic
C 2009	VCCCCZ1HH150JY	AB			Capacitor 15p 50V Ceramic
C 9636	VCCCCZ1HH220JY	AB			Capacitor 22p 50V Ceramic
C 1716	VCCCCZ1HH391JY	AA			Capacitor 390p 50V Ceramic
C 1717	VCCCCZ1HH391JY	AA			Capacitor 390p 50V Ceramic
C 1720	VCCCCZ1HH470JY	AB			Capacitor 47p 50V Ceramic
C 1721	VCCCCZ1HH470JY	AB			Capacitor 47p 50V Ceramic
C 3382	VCCCCZ1HH470JY	AB			Capacitor 47p 50V Ceramic
C 3383	VCCCCZ1HH470JY	AB			Capacitor 47p 50V Ceramic
C 3399	VCCCCZ1HH470JY	AB			Capacitor 47p 50V Ceramic
C 3400	VCCCCZ1HH470JY	AB			Capacitor 47p 50V Ceramic
C 9402	VCCCCZ1HH560JY	AB			Capacitor 56p 50V Ceramic
C 9403	VCCCCZ1HH560JY	AB			Capacitor 56p 50V Ceramic
C 9408	VCCCCZ1HH560JY	AB			Capacitor 56p 50V Ceramic
C 9409	VCCCCZ1HH560JY	AB			Capacitor 56p 50V Ceramic
C 0521	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 0555	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 0580	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 0584	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 0586	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1124	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1715	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 1718	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 2002	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 2013	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3102	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3112	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3801	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3802	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3803	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3804	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3805	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3806	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3807	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3808	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3810	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3812	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 9504	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 9603	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 3393	VCKYCY1AB473KY	AB			Capacitor 0.047 10V Ceramic
C 0558	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 0559	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 1185	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3103	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3104	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3385	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3387	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3388	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3389	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
C 3396	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3397	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 3819	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 9617	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 9619	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 9627	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 9607	VCKYCZ1EB472KY	AB			Capacitor 0.047 25V Ceramic
C 0508	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 0510	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 0554	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 0560	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 1936	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 3386	VCKYCZ1HB152KY	AB			Capacitor 1500p 50V Ceramic
C 0501	VCKYCZ1HB221KY	AA			Capacitor 220p 50V Ceramic
C 0502	VCKYCZ1HB221KY	AA			Capacitor 220p 50V Ceramic
C 0553	VCKYCZ1HB221KY	AA			Capacitor 220p 50V Ceramic
C 0556	VCKYCZ1HB221KY	AA			Capacitor 220p 50V Ceramic
C 1705	VCKYCZ1HB221KY	AA			Capacitor 220p 50V Ceramic
C 1706	VCKYCZ1HB221KY	AA			Capacitor 220p 50V Ceramic
C 9629	VCKYCZ1HB222KY	AA			Capacitor 2200p 50V Ceramic
C 0564	VCKYCZ1HB471KY	AB			Capacitor 470p 50V Ceramic
C 0566	VCKYCZ1HB472KY	AA			Capacitor 4700p 50V Ceramic
C 0569	VCKYCZ1HB472KY	AA			Capacitor 4700p 50V Ceramic
D 0512	VHDBAV70++-1Y	AB			Diode BAV70,215
D 1702	VHDBAV70++-1Y	AB			Diode BAV70,215
D 2005	VHDDA1010++-1Y	AA			Diode DA2J10100L
D 9608	VHDDA1010++-1Y	AA			Diode DA2J10100L
D 1521	VHDBR520M30-1Y	AA			Diode RB520SM-30GJT2R
D 1507	VHDBR521M30-1Y	AA			Diode RB521SM-30GJT2R
D 1508	VHDBR521M30-1Y	AA			Diode RB521SM-30GJT2R
TH 2001	VHHM1103J15-1Y				-
IC 1903	VHI3416C18N-1Y	AB			Ic MM3416C18NRE
IC 9605	VHI3416C33N-1Y	AB			Ic MM3416C18NRE
IC 3102	VHIAHC1G08W-1Y	AD			Ic 74AHC1G08GW,125
IC 0503	VHIAHT1G08W-1Y	AD			Ic 74HCT1G08GW/G,125
IC 1702	VHIAK4201EU-1Y	AL			Ic AK4201EuropeP
IC 9601	VHIBD9328EF-1Y	AF			Ic BD9328EFJ-BZE2
IC 3104	VHIBR24T64J-1Y				Ic
IC 3802	VHHC2G66DP-1Y	AD			Ic 74HC2G66DP,125
IC 3805	VHHC2G66DP-1Y	AD			Ic 74HC2G66DP,125
IC 1501	VHIHSP0618M-1Y				Ic HSP061-8M16
IC 1502	VHIHSP0618M-1Y				Ic HSP061-8M16
IC 1503	VHIHSP0618M-1Y				Ic HSP061-8M16
IC 1504	VHIHSP0618M-1Y				Ic HSP061-8M16
IC 2005	VHILCX125FT-1Y				Ic
IC 2002	VHILCX157FT-1Y				Ic
IC 0506	VHIM3221EIP-1Y	AK			Ic MAX3221EIPowerG4
IC 9501	VHIPS2553DB-1Y	AE			Ic TPS2553DBVR
IC 1109	VHIS170B18U-1Y	AE			Ic S-1170B18UC-OTDTFG
IC 2601	VHISI9387A-1Q	AN			Ic S119387ACTUC
IC 9604	VHITPS54227-1Y	AF			Ic TPS54227DDAR
IC 9606	VHITPS54227-1Y	AF			Ic TPS54227DDAR
IC 9603	VHITPS54429-1Y				Ic TPS54229PWPR
IC 9607	VHITPS54429-1Y				Ic TPS54229PWPR
IC 1902	VHIYDA164EZ-1Y	AL			Ic YDA164CZ-QZE2
IC 1703	VHIYSS952QZ-1Y				Ic YSS952-QZE2
D 0527	VHPCDL37114-1Y				Diod
R 3501	VRK-SA1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3516	VRK-SA1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3546	VRK-SA1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 3562	VRK-SA1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 1738	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 2517	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 2520	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 2536	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 2537	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 2538	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 2625	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 3326	VRK-SA1JF100JY	AB			Resistor 10 1/16W Metal Composition
R 2039	VRK-SA1JF182JY	AA			Resistor 1.8k 1/16W Metal Composition
R 3349	VRK-SA1JF182JY	AA			Resistor 1.8k 1/16W Metal Composition
R 2051	VRK-SA1JF221JY	AE			Resistor 220 1/16W Metal Composition
R 3333	VRK-SA1JF221JY	AE			Resistor 220 1/16W Metal Composition
R 1513	VRK-SA1JF473JY	AC			Resistor 47k 1/16W Metal Composition
R 1514	VRK-SA1JF473JY	AC			Resistor 47k 1/16W Metal Composition
R 1515	VRK-SA1JF473JY	AC			Resistor 47k 1/16W Metal Composition
R 1516	VRK-SA1JF473JY	AC			Resistor 47k 1/16W Metal Composition
R 3324	VRK-SB1FF103JY	AA			Resistor 10k 1/32W Metal Composition
R 2041	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3504	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3508	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3521	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3522	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3538	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition
R 3542	VRK-SB1FF470JY	AA			Resistor 47 1/32W Metal Composition



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
R 0523	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 0524	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 0600	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 0601	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 0612	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 0614	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 1101	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 1737	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 3120	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 3481	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 9632	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 9637	VRS-CZ1JF102JY	AA			Resistor 1k 1/16W Metal Oxide
R 0504	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 0620	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 1951	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 1963	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 1969	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2043	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2054	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2080	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2092	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2521	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2544	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2601	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2612	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2616	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2626	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2628	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 2652	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3336	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3340	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3395	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3808	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3809	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3812	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3829	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3835	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3856	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 3858	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 9631	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 9638	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 0514	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 0517	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 0591	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 0594	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 0603	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 0605	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 1522	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 1956	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 9501	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 1741	VRS-CZ1JF105JY	AA			Resistor 1M 1/16W Metal Oxide
R 3838	VRS-CZ1JF105JY	AA			Resistor 1M 1/16W Metal Oxide
R 2049	VRS-CZ1JF106JY	AA			Resistor 10M 1/16W Metal Oxide
R 1752	VRS-CZ1JF153JY	AA			Resistor 15k 1/16W Metal Oxide
R 1753	VRS-CZ1JF153JY	AA			Resistor 15k 1/16W Metal Oxide
R 1971	VRS-CZ1JF153JY	AA			Resistor 15k 1/16W Metal Oxide
R 0522	VRS-CZ1JF221JY	AA			Resistor 220 1/16W Metal Oxide
R 0533	VRS-CZ1JF221JY	AA			Resistor 220 1/16W Metal Oxide
R 3357	VRS-CZ1JF221JY	AA			Resistor 2.2k 1/16W Metal Oxide
R 1507	VRS-CZ1JF222JY	AA			Resistor 2.2k 1/16W Metal Oxide
R 3425	VRS-CZ1JF222JY	AA			Resistor 2.2k 1/16W Metal Oxide
R 9616	VRS-CZ1JF223FY	AA			Resistor 22k 1/16W Metal Oxide
R 9617	VRS-CZ1JF223FY	AA			Resistor 22k 1/16W Metal Oxide
R 9618	VRS-CZ1JF223FY	AA			Resistor 22k 1/16W Metal Oxide
R 9628	VRS-CZ1JF223FY	AA			Resistor 22k 1/16W Metal Oxide
R 1756	VRS-CZ1JF223JY	AA			Resistor 22k 1/16W Metal Oxide
R 2060	VRS-CZ1JF223JY	AA			Resistor 22k 1/16W Metal Oxide
R 3383	VRS-CZ1JF223JY	AA			Resistor 22k 1/16W Metal Oxide
R 3384	VRS-CZ1JF223JY	AA			Resistor 22k 1/16W Metal Oxide
R 3529	VRS-CZ1JF241FY	AA			Resistor 240 1/16W Metal Oxide
R 3550	VRS-CZ1JF241FY	AA			Resistor 240 1/16W Metal Oxide
R 1545	VRS-CZ1JF273JY	AA			Resistor 27k 1/16W Metal Oxide
R 2068	VRS-CZ1JF273JY	AA			Resistor 27k 1/16W Metal Oxide
R 3367	VRS-CZ1JF303JY	AA			Resistor 30k 1/16W Metal Oxide
R 3368	VRS-CZ1JF303JY	AA			Resistor 30k 1/16W Metal Oxide
R 3446	VRS-CZ1JF303JY	AA			Resistor 30k 1/16W Metal Oxide
R 3447	VRS-CZ1JF303JY	AA			Resistor 30k 1/16W Metal Oxide
R 2647	VRS-CZ1JF331FY	AA			Resistor 330 1/16W Metal Oxide
R 2052	VRS-CZ1JF394JY	AA			Resistor 390k 1/16W Metal Oxide
R 3356	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3374	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3378	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3518	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 3561	VRS-CZ1JF470JY	AA			Resistor 47 1/16W Metal Oxide
R 0654	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
R 0655	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 1912	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 1913	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 1916	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 1917	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2009	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2020	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2031	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2062	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2099	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 2611	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3103	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3119	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3124	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 3843	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 9609	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 9627	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/16W Metal Oxide
R 9633	VRS-CZ1JF473FY	AA			Resistor 47k 1/16W Metal Oxide
R 0602	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1520	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1751	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1958	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 2040	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 2617	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 9602	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 9626	VRS-CZ1JF473JY	AA			Resistor 47k 1/16W Metal Oxide
R 1954	VRS-CZ1JF474JY	AA			Resistor 470k 1/16W Metal Oxide
R 1521	VRS-CZ1JF561JY	AA			Resistor 560 1/16W Metal Oxide
R 9610	VRS-CZ1JF562JY	AA			Resistor 5.6k 1/16W Metal Oxide
R 1754	VRS-CZ1JF563JY	AA			Resistor 56k 1/16W Metal Oxide
R 1755	VRS-CZ1JF563JY	AA			Resistor 56k 1/16W Metal Oxide
R 2501	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2502	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2503	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2504	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2505	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2506	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2507	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2508	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2518	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2519	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2522	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2523	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2524	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2525	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2526	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2527	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2528	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2529	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2530	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2531	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2532	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2533	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2534	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2535	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2673	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2674	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2675	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2676	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2677	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2678	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2679	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 2680	VRS-CZ1JF5R1JY	AA			Resistor 5.1 1/16W Metal Oxide
R 3428	VRS-CZ1JF680JY	AA			Resistor 68 1/16W Metal Oxide
R 3429	VRS-CZ1JF680JY	AA			Resistor 68 1/16W Metal Oxide
R 3431	VRS-CZ1JF680JY	AA			Resistor 68 1/16W Metal Oxide
R 9630	VRS-CZ1JF683FY	AA			Resistor 68k 1/16W Metal Oxide
R 9405	VRS-CZ1JF750FY	AA			Resistor 75 1/16W Metal Oxide
R 9406	VRS-CZ1JF750FY	AA			Resistor 75 1/16W Metal Oxide
R 9407	VRS-CZ1JF750FY	AA			Resistor 75 1/16W Metal Oxide
R 9408	VRS-CZ1JF750FY	AA			Resistor 75 1/16W Metal Oxide
R 0677	VRS-TQ2EF560JY	AA			Resistor 56 1/4W Metal Oxide
R 0678	VRS-TQ2EF560JY	AA			Resistor 56 1/4W Metal Oxide
R 0679	VRS-TQ2EF560JY	AA			Resistor 56 1/4W Metal Oxide
R 0505	VRS-TQ2EF750JY	AA			Resistor 75 1/4W Metal Oxide
R 0506	VRS-TQ2EF750JY	AA			Resistor 75 1/4W Metal Oxide
R 0507	VRS-TQ2EF750JY	AA			Resistor 75 1/4W Metal Oxide
R 0598	VRS-TQ2EF750JY	AA			Resistor 75 1/4W Metal Oxide
R 0608	VRS-TV1JD101JY	AA			Resistor 100 1/16W Metal Oxide
R 0609	VRS-TV1JD101JY	AA			Resistor 100 1/16W Metal Oxide
R 0613	VRS-TV1JD101JY	AA			Resistor 100 1/16W Metal Oxide
R 0590	VRS-TW2ED101JY	AA			Resistor 100 1/4W Metal Oxide
R 0593	VRS-TW2ED101JY	AA			Resistor 100 1/4W Metal Oxide
R 0606	VRS-TW2ED330JY	AA			Resistor 33 1/4W Metal Oxide
R 0607	VRS-TW2ED330JY	AA			Resistor 33 1/4W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
Q 1503	VS2SJ125C+-1Y				Transistor
Q 2603	VSKTA1535T+-1Y				Transistor
Q 0505	VSRT1N141C/-1Y				Transistor
Q 1702	VSRT1N141C/-1Y				Transistor
Q 2605	VSRT1N141C/-1Y				Transistor
Q 3801	VSRT1N141C/-1Y				Transistor
Q 1507	VSRT3K33M+-1Y				Transistor
Q 2602	VSRT3K33M+-1Y				Transistor
Q 9601	VSUPUMD3///-1Y				Transistor
Q 9602	VSUPUMD3///-1Y				Transistor
Q 9603	VSUPUMD3///-1Y				Transistor
-	ZHNDAL85-R01E				orZHNDAL63-R01E
J 0504	QJAKEA115WJQZQ				Jack
J 0513	QJAKEA116WJQZQ				Jack
J 0509	QJAKEA117WJQZQ				Jack
J 0514	QJAKEA117WJQZQ				Jack
J 9401	QJAKZA128WJQZQ				Jack
P 3801	QPLGNB001WJZZ	AE			Plug
SC 0504	QSOCNB122WJQZ				RS-232C W/O HEX
SC 0501	QSOCNB123WJQZ				D-SUB15 W/O HEX
TU 1104	RTUDAA087WJQZ				Tuner
PWB1002	QPWBXF975WJN1				T-CON PWB
FB 4902	RBLN-A193WJZZY	AB			Ferrite Bead
FB 5101	RBLN-A206WJZZY	AB			Ferrite Bead
FB 5804	RBLN-A206WJZZY	AB			Ferrite Bead
FB 5805	RBLN-A379WJQZY	AB			Ferrite Bead
FB 5806	RBLN-A379WJQZY	AB			Ferrite Bead
FB 5807	RBLN-A379WJQZY	AB			Ferrite Bead
FB 5808	RBLN-A379WJQZY	AB			Ferrite Bead
FB 5809	RBLN-A379WJQZY	AB			Ferrite Bead
FB 5810	RBLN-A379WJQZY	AB			Ferrite Bead
FB 5811	RBLN-A379WJQZY	AB			Ferrite Bead
FB 5812	RBLN-A379WJQZY	AB			Ferrite Bead
C 6249	RC-AZA082WJQZY				Capacitor
C 5803	RC-KZA510WJPZY				Capacitor
C 6280	RC-KZA510WJPZY				Capacitor
C 6281	RC-KZA510WJPZY				Capacitor
C 6282	RC-KZA510WJPZY				Capacitor
C 6288	RC-KZA510WJPZY				Capacitor
C 6293	RC-KZA510WJPZY				Capacitor
C 6823	RC-KZA510WJPZY				Capacitor
C 6824	RC-KZA510WJPZY				Capacitor
C 6833	RC-KZA510WJPZY				Capacitor
C 5824	RC-KZA761WJQZY	AB			Capacitor
C 5841	RC-KZA761WJQZY	AB			Capacitor
C 5861	RC-KZA761WJQZY	AB			Capacitor
C 5863	RC-KZA761WJQZY	AB			Capacitor
C 6806	RC-KZA805WJQZY	AB			Capacitor
C 6816	RC-KZA805WJQZY	AB			Capacitor
C 6326	RC-KZA832WJZZY	AB			Capacitor
C 6236	VCCCCZ1HH101JY	AB			Capacitor 100p 50V Ceramic
C 6210	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 5105	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5106	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5807	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5808	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5809	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5810	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5812	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5813	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5814	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5816	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5817	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5819	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5823	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5829	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5831	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5832	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5836	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5839	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5843	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5845	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5847	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5848	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5849	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5850	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5851	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5852	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5858	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5860	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5862	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5865	VCKYCY1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4941	VCKYCY1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4801	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6284	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
C 6285	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6295	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6811	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6813	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6818	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6831	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6832	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 5801	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5805	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5820	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5821	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5825	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5827	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5828	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5830	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5837	VCKYCZ1HB102KY	AB			Capacitor 1000p 50V Ceramic
C 5804	VCKYCZ1HB472KY	AB			Capacitor 4700p 50V Ceramic
C 5806	VCKYCZ1HB472KY	AB			Capacitor 4700p 50V Ceramic
C 5826	VCKYCZ1HB472KY	AB			Capacitor 4700p 50V Ceramic
C 6809	VCKYTV1CB105KY				Capacitor
D 6203	VHDB520S30-1Y				Diode
IC 6209	VHIBU55041+-1Y				Ic
IC 4904	VHILVC1G02W-1Y				Ic
IC 6206	VHIRP131S18-5Y				Ic
R 5830	VRK-SA1JF100JY	AB			Resistor 10 1/ 16W Metal Composition
R 5899	VRK-SA1JF100JY	AB			Resistor 10 1/ 16W Metal Composition
R 5832	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 6362	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 5862	VRK-SB1FF103JY	AA			Resistor 1k 1/32W Metal Composition
R 5802	VRK-SB1FF330JY	AA			Resistor 33 1/32W Metal Composition
R 5318	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5337	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5338	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5339	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5340	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5341	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5342	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5343	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5344	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5348	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5350	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5365	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5366	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5367	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5368	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5369	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5370	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 5371	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 6266	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 6267	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 6803	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 6804	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 6818	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 6819	VRS-CY1JF000JY	AA			Resistor 0 1/ 16W Metal Composition
R 6257	VRS-CY1JF102FY	AB			Resistor 1k 1/ 16W Metal Composition
R 6291	VRS-CY1JF184FY	AA			Resistor 180k 1/ 16W Metal Composition
R 6292	VRS-CY1JF184FY	AA			Resistor 180k 1/ 16W Metal Composition
R 5313	VRS-CY1JF200FY	AA			Resistor 20 1/ 16W Metal Composition
R 5126	VRS-CY1JF330JY	AA			Resistor 33 1/ 16W Metal Composition
R 5127	VRS-CY1JF330JY	AA			Resistor 33 1/ 16W Metal Composition
R 6260	VRS-CY1JFR51JY	AA			Resistor
R 6261	VRS-CY1JFR51JY	AA			Resistor
R 4813	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4823	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4826	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4828	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4831	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4832	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4834	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4835	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4836	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4837	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4838	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4839	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4881	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4893	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4894	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4905	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4907	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 5852	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 5886	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 5890	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 5938	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 5940	VRS-CZ1JF000JY	AA			Resistor 0 1/ 16W Metal Oxide
R 4842	VRS-CZ1JF100JY	AA			Resistor 10 1/ 16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
R 4843	VRS-CZ1JF100JY	AA			Resistor 10 1/ 16W Metal Oxide
R 4833	VRS-CZ1JF101JY	AA			Resistor 100 1/ 16W Metal Oxide
R 4840	VRS-CZ1JF101JY	AA			Resistor 100 1/ 16W Metal Oxide
R 4841	VRS-CZ1JF101JY	AA			Resistor 100 1/ 16W Metal Oxide
R 4845	VRS-CZ1JF101JY	AA			Resistor 100 1/ 16W Metal Oxide
R 4846	VRS-CZ1JF101JY	AA			Resistor 100 1/ 16W Metal Oxide
R 4883	VRS-CZ1JF101JY	AA			Resistor 100 1/ 16W Metal Oxide
R 6283	VRS-CZ1JF102DY	AA			Resistor
R 4802	VRS-CZ1JF102JY	AA			Resistor 1k 1/ 16W Metal Oxide
R 5106	VRS-CZ1JF102JY	AA			Resistor 1k 1/ 16W Metal Oxide
R 5121	VRS-CZ1JF102JY	AA			Resistor 1k 1/ 16W Metal Oxide
R 5122	VRS-CZ1JF102JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4819	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4829	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4896	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4897	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4901	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4902	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4904	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4906	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4912	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4917	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4920	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4926	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4930	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5829	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5837	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5847	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5849	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5858	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5859	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5860	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5864	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5871	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 5941	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 6308	VRS-CZ1JF103JY	AA			Resistor 10k 1/ 16W Metal Oxide
R 4810	VRS-CZ1JF104JY	AA			Resistor 100k 1/ 16W Metal Oxide
R 6245	VRS-CZ1JF104JY	AA			Resistor 100k 1/ 16W Metal Oxide
R 6258	VRS-CZ1JF104JY	AA			Resistor 100k 1/ 16W Metal Oxide
R 6233	VRS-CZ1JF183DY	AA			Resistor
R 6299	VRS-CZ1JF1R0JY	AA			Resistor
R 6300	VRS-CZ1JF1R0JY	AA			Resistor
R 6310	VRS-CZ1JF1R0JY	AA			Resistor
R 6326	VRS-CZ1JF1R0JY	AA			Resistor
R 6336	VRS-CZ1JF1R0JY	AA			Resistor
R 6337	VRS-CZ1JF1R0JY	AA			Resistor
R 6338	VRS-CZ1JF1R0JY	AA			Resistor
R 6339	VRS-CZ1JF1R0JY	AA			Resistor
R 6343	VRS-CZ1JF1R0JY	AA			Resistor
R 6344	VRS-CZ1JF1R0JY	AA			Resistor
R 5911	VRS-CZ1JF221JY	AA			Resistor 220 1/ 16W Metal Oxide
R 5912	VRS-CZ1JF221JY	AA			Resistor 220 1/ 16W Metal Oxide
R 5844	VRS-CZ1JF222JY	AA			Resistor 2.2k 1/ 16W Metal Oxide
R 5846	VRS-CZ1JF222JY	AA			Resistor 2.2k 1/ 16W Metal Oxide
R 5309	VRS-CZ1JF330JY	AA			Resistor 33 1/ 16W Metal Oxide
R 5347	VRS-CZ1JF330JY	AA			Resistor 33 1/ 16W Metal Oxide
R 5915	VRS-CZ1JF330JY	AA			Resistor 33 1/ 16W Metal Oxide
R 5916	VRS-CZ1JF330JY	AA			Resistor 33 1/ 16W Metal Oxide
R 5922	VRS-CZ1JF330JY	AA			Resistor 33 1/ 16W Metal Oxide
R 5923	VRS-CZ1JF330JY	AA			Resistor 33 1/ 16W Metal Oxide
R 5943	VRS-CZ1JF330JY	AA			Resistor 33 1/ 16W Metal Oxide
R 5901	VRS-CZ1JF331JY	AA			Resistor 330 1/ 16W Metal Oxide
R 5902	VRS-CZ1JF331JY	AA			Resistor 330 1/ 16W Metal Oxide
R 5907	VRS-CZ1JF331JY	AA			Resistor 330 1/ 16W Metal Oxide
R 5908	VRS-CZ1JF331JY	AA			Resistor 330 1/ 16W Metal Oxide
R 4808	VRS-CZ1JF332JY	AA			Resistor 3.3k 1/ 16W Metal Oxide
R 4824	VRS-CZ1JF332JY	AA			Resistor 3.3k 1/ 16W Metal Oxide
R 6306	VRS-CZ1JF333FY	AB			Resistor 33k 1/ 16W Metal Oxide
R 4817	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/ 16W Metal Oxide
R 4827	VRS-CZ1JF472JY	AA			Resistor 4.7k 1/ 16W Metal Oxide
R 6223	VRS-CZ1JF473DY	AA			Resistor
R 4801	VRS-CZ1JF473FY	AB			Resistor 47k 1/ 16W Metal Oxide
R 6838	VRS-CZ1JF473JY	AA			Resistor 47k 1/ 16W Metal Oxide
R 6841	VRS-CZ1JF473JY	AA			Resistor 47k 1/ 16W Metal Oxide
R 6282	VRS-CZ1JF562DY	AA			Resistor
R 6263	VRS-TQ2BD332FY	AB			Resistor
R 6221	VRS-TV2BD150JY	AA			Resistor
R 6293	VRS-TW2HF000JY	AA			Resistor
R 6845	VRS-TW2HF000JY	AA			Resistor
R 6848	VRS-TW2HF000JY	AA			Resistor
R 6288	VRS-TW2HF1R0JY	AA			Resistor 1.0 1 / 2W Metal Oxide
Q 6209	VS2SB1132Q/-1Y				Transistor
Q 6208	VS2SD1664Q+/-1Y				Transistor
Q 4901	VSLTC044EEB-1Y				Transistor
Q 4905	VSLTC044EEB-1Y				Transistor

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
Q 6306	VSLTC044TEB-1Y				Transistor
Q 4902	VSRUM002N02-1Y				Transistor
-	ZHNDAL51-R01E				-
SC 4801	QCNCWA671WJQZY				-
SC 5301	QCNCWA801WJZZY				-
SC 5302	QCNCWA801WJZZY				-
P 4804	QPLGNA905WJZZY				-
FB 4901	RBLN-A193WJZZY				Ferrite Bead
FB 4903	RBLN-A193WJZZY	AB			Ferrite Bead
FB 4904	RBLN-A193WJZZY	AB			Ferrite Bead
FB 4905	RBLN-A193WJZZY	AB			Ferrite Bead
FB 4906	RBLN-A193WJZZY	AB			Ferrite Bead
FB 5801	RBLN-A206WJZZY	AB			Ferrite Bead
FB 5803	RBLN-A206WJZZY	AB			Ferrite Bead
FB 4801	RBLN-A561WJQZY	AB			Ferrite Bead
C 4905	RC-KZA176WJZZY				Capacitor
C 4906	RC-KZA176WJZZY				Capacitor
C 6217	RC-KZA216WJZZY				Capacitor
C 6812	RC-KZA383WJZZY				Capacitor
C 6815	RC-KZA383WJZZY				Capacitor
C 6819	RC-KZA383WJZZY				Capacitor
C 6820	RC-KZA383WJZZY				Capacitor
C 6821	RC-KZA383WJZZY				Capacitor
C 6822	RC-KZA383WJZZY				Capacitor
C 6223	RC-KZA385WJZZY				Capacitor
C 6226	RC-KZA385WJZZY				Capacitor
C 6234	RC-KZA385WJZZY				Capacitor
C 6235	RC-KZA385WJZZY				Capacitor
C 6237	RC-KZA385WJZZY				Capacitor
C 5802	RC-KZA510WJPZY				Capacitor
C 5818	RC-KZA510WJPZY				Capacitor
C 6228	RC-KZA510WJPZY				Capacitor
C 6229	RC-KZA510WJPZY				Capacitor
C 6230	RC-KZA510WJPZY				Capacitor
C 6804	RC-KZA510WJPZY				Capacitor
C 6805	RC-KZA510WJPZY				Capacitor
C 6808	RC-KZA510WJPZY				Capacitor
C 6810	RC-KZA510WJPZY				Capacitor
C 6835	RC-KZA510WJPZY				Capacitor
C 6839	RC-KZA510WJPZY				Capacitor
C 6842	RC-KZA510WJPZY				Capacitor
C 6844	RC-KZA510WJPZY				Capacitor
C 6204	RC-KZA621WJQZY				Capacitor
C 6211	RC-KZA621WJQZY				Capacitor
C 6271	RC-KZA621WJQZY				Capacitor
C 4915	RC-KZA761WJQZY				Capacitor
C 4917	RC-KZA761WJQZY				Capacitor
C 4918	RC-KZA761WJQZY				Capacitor
C 4919	RC-KZA761WJQZY				Capacitor
C 4921	RC-KZA761WJQZY				Capacitor
C 4922	RC-KZA761WJQZY				Capacitor
C 4924	RC-KZA761WJQZY				Capacitor
C 4925	RC-KZA761WJQZY				Capacitor
C 6207	RC-KZA805WJQZY				Capacitor
C 6208	RC-KZA805WJQZY				Capacitor
C 6209	RC-KZA805WJQZY				Capacitor
C 6212	RC-KZA805WJQZY				Capacitor
C 6213	RC-KZA805WJQZY				Capacitor
C 6214	RC-KZA805WJQZY				Capacitor
C 6215	RC-KZA805WJQZY				Capacitor
C 6216	RC-KZA805WJQZY				Capacitor
C 6240	RC-KZA832WJZZY				Capacitor
C 6242	RC-KZA832WJZZY				Capacitor
C 6327	RC-KZA832WJZZY				Capacitor
C 6851	RC-KZA848WJZZY				Capacitor
C 6852	RC-KZA848WJZZY				Capacitor
C 6853	RC-KZA848WJZZY				Capacitor
L 5303	RCILFA154WJZZY				Coil
L 5304	RCILFA154WJZZY				Coil
L 5311	RCILFA154WJZZY				Coil
L 5312	RCILFA154WJZZY				Coil
L 5301	RCILFA157WJZZY				Coil
L 5302	RCILFA157WJZZY				Coil
L 5305	RCILFA157WJZZY				Coil
L 5306	RCILFA157WJZZY				Coil
L 5307	RCILFA157WJZZY				Coil
L 5308	RCILFA157WJZZY				Coil
L 5309	RCILFA157WJZZY				Coil
L 5310	RCILFA157WJZZY				Coil
L 5313	RCILFA157WJZZY				Coil
L 5314	RCILFA157WJZZY				Coil
L 5315	RCILFA157WJZZY				Coil
L 5316	RCILFA157WJZZY				Coil
L 6202	RCILPB012WJQZY				Coil
L 6201	RCILPB013WJQZY				Coil



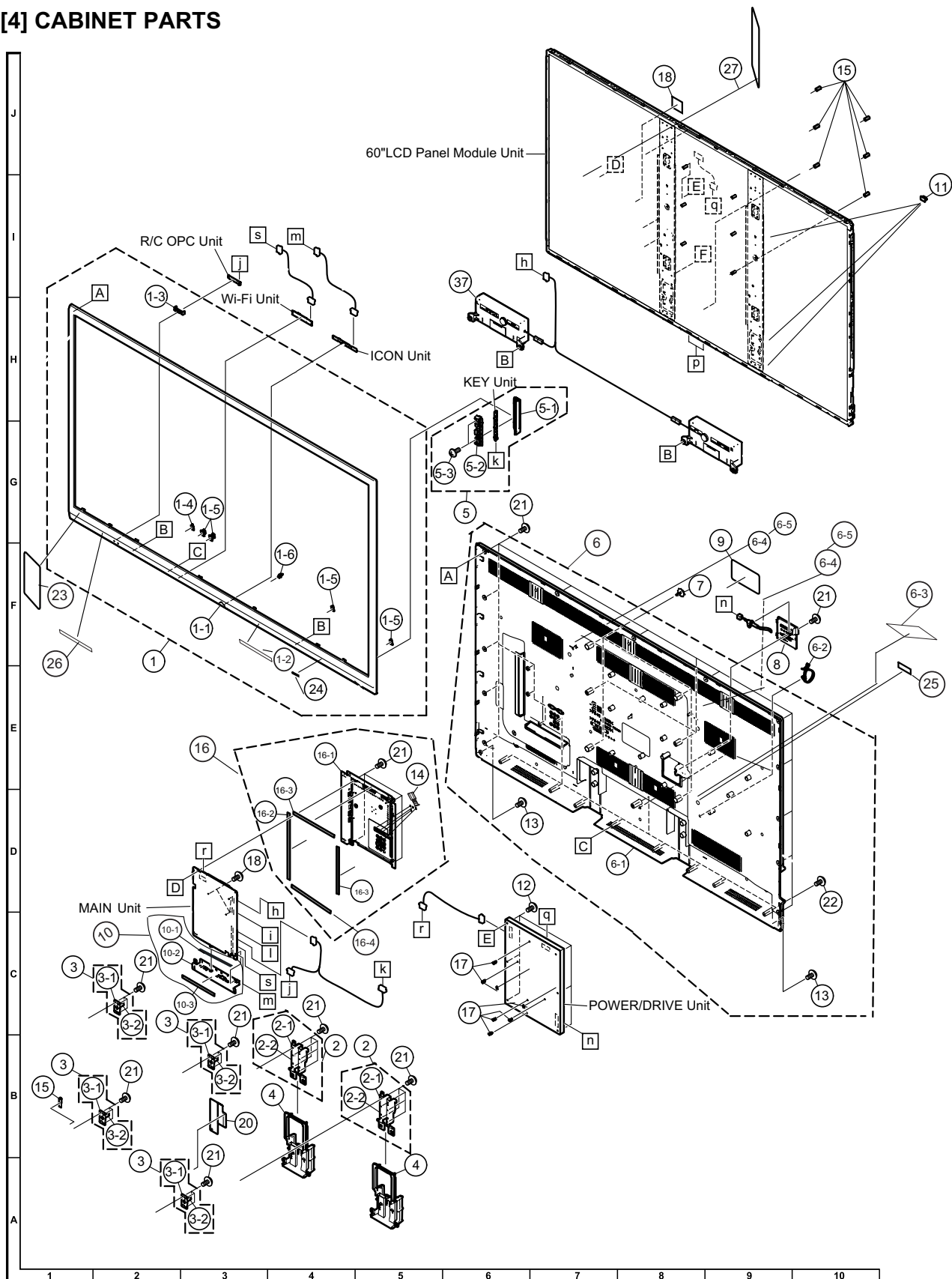
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
L 6204	RCILPB155WJQZY				Coil
X 5801	RCRSCA237WJQZY				Crystal
FL 5101	RFILZA031WJQZY				-
D 6206	RH-EXA613WJZZY				Diod
IC 5803	RH-IXD086WJZZY				Ic
IC 5801	RH-IXD089WJQZQ				Ic
IC 5103	RH-IXD458WJQZQ				Ic
R 6214	RR-NZA199WJQZY				Resistor
C 4823	VCAAAU1DJ127MY				Capacitor
C 4829	VCAAAU1DJ127MY				Capacitor
C 6257	VCAAAU1DJ127MY				Capacitor
C 6233	VCCCCY1HH120JY	AA			Capacitor 12p 50V Ceramic
C 6238	VCCCCY1HH220JY	AA			Capacitor 22p 50V Ceramic
C 6250	VCCCCY1HH330JY	AA			Capacitor 33p 50V Ceramic
C 6231	VCCCCY1HH331JY	AA			Capacitor 330p 50V Ceramic
C 6227	VCCCCY1HH390JY	AA			Capacitor 39p 50V Ceramic
C 5856	VCCCCZ1HH100DY	AA			Capacitor 10p 50V Ceramic
C 5855	VCCCCZ1HH8R0DY				Capacitor
C 6203	VCKYCY1CB683KY				Capacitor
C 4824	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 4825	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6221	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6224	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6239	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6243	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6245	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6247	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6248	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6252	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6256	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6269	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6276	VCKYCY1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 5854	VCKYCY1HB103KY				Capacitor
C 6220	VCKYCY1HB103KY				Capacitor
C 6201	VCKYCY1HB104KY				Capacitor
C 6205	VCKYCY1HB104KY				Capacitor
C 6206	VCKYCY1HB104KY				Capacitor
C 6225	VCKYCY1HB152KY				Capacitor
C 6246	VCKYCY1HB222KY				Capacitor
C 4907	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4908	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4909	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4910	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4911	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4912	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4913	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4914	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5103	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5104	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5107	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5108	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5109	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5110	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5111	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5846	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5853	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 5857	VCKYCZ1AB104KY	AB			Capacitor 0.1 10V Ceramic
C 4916	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4920	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4923	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4926	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4927	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4928	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4929	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4930	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4931	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4932	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4933	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4934	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4935	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4936	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4937	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4938	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4939	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4940	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4945	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 4946	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
C 6802	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6803	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6807	VCKYCZ1EB104KY	AA			Capacitor 0.1 25V Ceramic
C 6241	VCKYCZ1HB471KY	AB			Capacitor 470p 25V Ceramic
D 6205	VHDB055L30-1Y				Diod
D 6211	VHDB055L30-1Y				Diod
D 6207	VHDB552EA+-1Y				Diod
D 6208	VHDB552EA+-1Y				Diod

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
D 6210	VHDBR552EA+-1Y				Diod
IC 6201	VHIBD81000+-1Y				Ic
IC 6207	VHIBD81010+-1Y				Ic
IC 6801	VHIBD8124MU-1Y				Ic
IC 5804	VHIBU4229G+-1Y				Ic
IC 6202	VHIBU4229G+-1Y				Ic
IC 6204	VHIPQ200WNA-1Y				Ic
IC 5101	VHITC7WU04K-1Y				Ic
IC 4902	VHITHCV216+-1Q				Ic
IC 4903	VHITHCV216+-1Q				Ic
R 6276	VRK-SA1JF222JY				Resistor
R 5879	VRK-SB1FF000JY	AA			Resistor 0 1/32W Metal Composition
R 5880	VRK-SB1FF000JY	AA			Resistor 0 1/32W Metal Composition
R 5881	VRK-SB1FF000JY	AA			Resistor 0 1/32W Metal Composition
R 6274	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 6277	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 6363	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 6860	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 6861	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 6862	VRK-SB1FF100JY	AA			Resistor 10 1/32W Metal Composition
R 5114	VRK-SB1FF330JY	AA			Resistor 33 1/32W Metal Composition
R 5116	VRK-SB1FF330JY	AA			Resistor 33 1/32W Metal Composition
R 5828	VRK-SB1FF330JY	AA			Resistor 33 1/32W Metal Composition
R 6824	VRS-CB1JF000JY				Resistor
R 6825	VRS-CB1JF000JY				Resistor
R 6826	VRS-CB1JF000JY				Resistor
R 6854	VRS-CB1JF000JY				Resistor
R 6855	VRS-CB1JF000JY				Resistor
R 6856	VRS-CB1JF000JY				Resistor
R 6212	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6234	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6235	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6236	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6240	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6243	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6247	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6253	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6273	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6278	VRS-CY1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6227	VRS-CY1JF103DY				Resistor
R 6229	VRS-CY1JF103DY				Resistor
R 6250	VRS-CY1JF103DY				Resistor
R 6254	VRS-CY1JF103DY				Resistor
R 6259	VRS-CY1JF103DY				Resistor
R 4803	VRS-CY1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 4807	VRS-CY1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 4825	VRS-CY1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 4830	VRS-CY1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 6256	VRS-CY1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 6230	VRS-CY1JF104DY				Resistor
R 6237	VRS-CY1JF104DY				Resistor
R 6241	VRS-CY1JF104JY				Resistor
R 6244	VRS-CY1JF104JY				Resistor
R 6272	VRS-CY1JF113DY				Resistor
R 6232	VRS-CY1JF123DY				Resistor
R 6251	VRS-CY1JF123DY				Resistor
R 6252	VRS-CY1JF134DY				Resistor
R 6270	VRS-CY1JF134DY				Resistor
R 6231	VRS-CY1JF203DY				Resistor
R 6238	VRS-CY1JF203DY				Resistor
R 6248	VRS-CY1JF204DY				Resistor
R 6249	VRS-CY1JF274DY				Resistor
R 6268	VRS-CY1JF302DY				Resistor
R 6271	VRS-CY1JF303DY				Resistor
R 6269	VRS-CY1JF333DY				Resistor
R 6213	VRS-CY1JF334DY				Resistor
R 6275	VRS-CY1JF392DY				Resistor
R 6239	VRS-CY1JF562FY				Resistor
R 6211	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6226	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6286	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6314	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 6315	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 5125	VRS-CZ1JF101JY				Resistor 100 1/16W Metal Oxide
R 5130	VRS-CZ1JF101JY				Resistor 100 1/16W Metal Oxide
R 4811	VRS-CZ1JF102JY				Resistor 1k 1/16W Metal Oxide
R 5112	VRS-CZ1JF102JY				Resistor 1k 1/16W Metal Oxide
R 5118	VRS-CZ1JF102JY				Resistor 1k 1/16W Metal Oxide
R 5119	VRS-CZ1JF102JY				Resistor 1k 1/16W Metal Oxide
R 6281	VRS-CZ1JF103FY				Resistor
R 6285	VRS-CZ1JF103FY				Resistor
R 5833	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5835	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5839	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5841	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[3] MAIN UNIT ( DKEYMF953FMH2 )</b>					
R 5861	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5869	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5874	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5875	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5876	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5877	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5878	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5883	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5887	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 5891	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 6280	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 6814	VRS-CZ1JF103JY	AA			Resistor 10k 1/16W Metal Oxide
R 6242	VRS-CZ1JF104JY	AA			Resistor 100k 1/16W Metal Oxide
R 5102	VRS-CZ1JF105FY	AA			Resistor 1M 1/16W Metal Oxide
R 5101	VRS-CZ1JF151FY				Resistor
R 6284	VRS-CZ1JF222DY				Resistor
R 5113	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5120	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5128	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5131	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5138	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5308	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5345	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5855	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5867	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 5882	VRS-CZ1JF330JY	AA			Resistor 33 1/16W Metal Oxide
R 6262	VRS-CZ1JF332JY	AA			Resistor 3.3k 1/16W Metal Oxide
R 5888	VRS-CZ1JF681DY				Resistor
R 6264	VRS-TV1JD100FY				Resistor
R 6215	VRS-TV1JD2R7JY				Resistor
R 6846	VRS-TW2HF3R3JY				Resistor
R 6847	VRS-TW2HF3R3JY				Resistor
Q 6211	VSAO4629+++1Y				-
Q 6206	VSAO6405+++1Y				-
PWB0151	QPWBNEF800WJZZ				KEY PWB
S 0151	QSW-KA037WJZZY				Switch
S 0152	QSW-KA037WJZZY				Switch
S 0153	QSW-KA037WJZZY				Switch
S 0154	QSW-KA037WJZZY				Switch
S 0155	QSW-KA037WJZZY				Switch
S 0156	QSW-KA037WJZZY				Switch
S 0157	QSW-KA037WJZZY				Switch
R 0152	VRS-CY1JF123JY				Resistor 12k 1/16W Metal Oxide
R 0154	VRS-CY1JF123JY				Resistor 12k 1/16W Metal Oxide
R 0151	VRS-CY1JF822JY				Resistor 8.2k 1/16W Metal Composition
R 0153	VRS-CY1JF822JY				Resistor 8.2k 1/16W Metal Composition
PWB0101	QPWBNG016WJZZ				LED/RC PWB
C 0104	RC-KZA761WJQZY	AB			Capacitor
C 0101	RC-KZA837WJQZY	AB			Capacitor 10 10V Ceramic
D 0107	RH-PXA191WJPZY				Diod
D 0108	RH-PXA191WJPZY				Diod
D 0111	RH-PXA223WJPZY				Diod
D 0112	RH-PXA223WJPZY				Diod
C 0105	VCKYCZ1EB103KY	AA			Capacitor 0.01 25V Ceramic
IC 0101	VHIGA1S100W-1Y				Ic
R 0135	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 0137	VRS-CZ1JF000JY	AA			Resistor 0 1/16W Metal Oxide
R 0101	VRS-CZ1JF101JY	AA			Resistor 100 1/16W Metal Oxide
R 0126	VRS-CZ1JF161JY	AA			Resistor 160 1/16W Metal Oxide
R 0129	VRS-CZ1JF161JY	AA			Resistor 160 1/16W Metal Oxide
R 0132	VRS-CZ1JF223JY	AA			Resistor 22k 1/16W Metal Oxide
R 0111	VRS-CZ1JF393JY	AA			Resistor 39k 1/16W Metal Oxide
R 0128	VRS-CZ1JF821JY	AA			Resistor 820 1/16W Metal Oxide
R 0130	VRS-CZ1JF821JY	AA			Resistor 820 1/16W Metal Oxide
Q 0107	VS2SC3928AR-1Y				Transistors
Q 0101	VSKRC407E++-1Y				Transistors
Q 0102	VSKRC407E++-1Y				Transistors
Q 0103	VSKRC407E++-1Y				Transistors
Q 0105	VSKRC407E++-1Y				Transistors

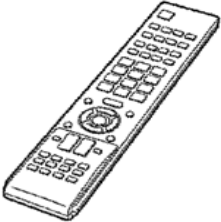
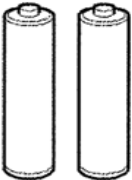
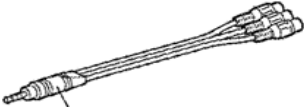

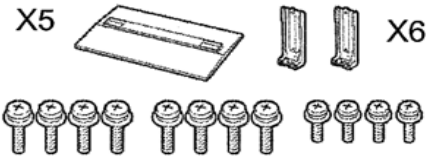

## [4] CABINET AND MECHANICAL PARTS

## [4] CABINET PARTS



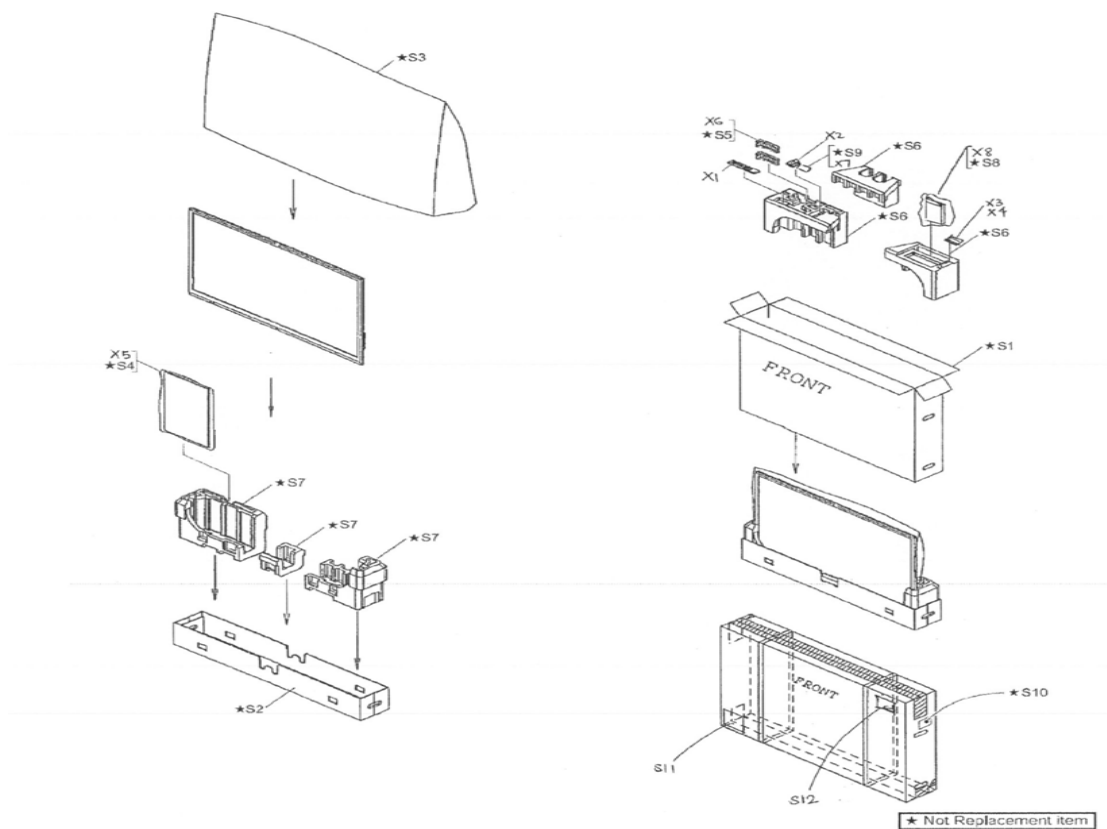
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[4] CABINET AND MECHNICAL PARTS</b>					
1	CCABAC944WJ4I	BK			FRONT CABINET ASSEMBLY
1-1	GCABAC944WJ4A				FROTN CABINET
1-2	GCOVAE310WJ4A				3D IR COVER
1-3	HDECQB767WJ4A				R/C LED DECORATION
1-4	LHLDWA133WJKZ	AC			WIRE HOLDER
1-5	LHLDWA175WJUJZ	AC			WIRE HOLDER, x4
1-6	LHLDWA289WJKZ	AC			WIRE HOLDER
2	CANGKD611WJ4I	BQ			STAND FIX ANGLE ASSEMBLY
2-1	PSPAHC502WJ4W	BQ			HIMELON 25x7x0.55mm
2-3	LANGKD611WJ4W	BQ			STAND FIX ANGLE
3	CANGKD484WJ4I				VESA ANGLE ASSEMBLY, x4
3-1	LANGKD484WJ4W				VESA ANGLE
3-2	NSFTZA471WJFN				SEL SPACER
4	GCOVAE320WJ4A	AH			BOTTOM COVER, x2
5	CCOVAE060WE0I	AU			CONTROL BUTTON ASSEMBLY
5-1	GCOVAE060WJ4A				CONTROL BUTTON COVER (B/D/I/J/M/N/P/X/Y/Z)
5-2	JBTN-A977WJ4A	AE			CONTROL BUTTON
5-3	XEBS830P08000	AA			SCREW FOR BUTTON, x2
6	CCABBC144WJ4I				REAR CABINET ASSEMBLT (D/X)
6	CCABBC144WJ4J				REAR CABINET ASSEMBLY
6-1	GCABBC144WJ4A				REAR CABINET
6-2	LHLDWA318WJKZ	AD			AC CORD HOLDER, x2
6-3	HINDPE737WJZZ	AE			CAUTION LABEL (D/X)
6-4	LHLDZB705WJZZ	AB			TENT-BOSHI CLAMP, x2 (D/X)
6-5	XEBS840P14000	AC			SCREW FOR CLAMP, x2 (D/X)
7	LX-BZA170WJF8	AC			SCREW FOR VESA ANGLE, x4
8	GCOVAE474WJ4A	AE			AC CORD COVER
9	TLABME548WJZZ	AD			MODEL LABEL (D/X)
9	TLABME549WJZZ	AD			MODEL LABEL (I/J/M/P/Y/Z)
9	TLABME550WJZZ	AD			MODEL LABEL (B)
9	TLABME551WJZZ	AD			MODEL LABEL (N)
10	CANGKD600WJ4I	AH			TERMINAL ANGLE BOTTOM ASSEMBLY
10-1	HDECPA091WJ4A				TERMINAL DECORATION BOTTOM
10-2	LANGKD600WJ4W				TERMINAL ANGLE BOTTOM
10-3	PSPA691WJZZ	AE			GASKET 8x180
11	LHLDWA124WJKZ	AC			WIRE HOLDER, x3
12	LX-BZA207WJF7	AA			SCREW FOR PWB,
13	LX-BZA473WJN1	AC			PLASTIC SCREW, x2
14	NSFTZA284WJFW	AC			HEX SCREW, x4
15	NSFTZA459WJF7	AC			TRAY SHAFT, x6
16	CSLDMB806WJ4I	AW			MAIN SHIELD ASSEMBLY
16-1	PSLDMB806WJ4Z				MAIN SHIELD
16-2	PSPA690WJZZ	AF			GASKET 8x255
16-3	PSPA691WJZZ	AE			GASKET 8x180, x2
16-4	PSPA694WJZZ	AF			GASKET 9x146
17	PSPANAA044WJKZ	AB			POWER PWB SPACER, x7
18	PSPA805WJKZ	AK			MAIN CPU COOLER
19	PZETKA595WK4Z	AE			AC CORD BARRIER
20	XBPS830P06WS0	AA			SCREW FOR MATEL,
21	XEBS830P12000	AA			SCREW FOR CAB-B, x10
22	TLABZD306WJZZ	AE			ENERGY RATING LABEL (D/X)
23	TLABZD326WJZZ	AC			ENERGY FREEVIEW LABEL (D)
24	HINDPD955WJ4A	AD			REGULATION LABEL (I)
25	TLABZD366WJZZ	AD			CAB-A JAPAN LABEL (Y)
26	PSPAHC636WJ00				HIMELON 350x30x0.35mm
<b>[5] LCD PANEL</b>					
1	R1LK600D3GV0AF	CZ			LCD PANEL
2	LX-BZA207WJF7	AA			SCREW TCON PWB, x6
3	PSPA854WJKZ	AK			TCON CPU COOLER

**[6] SUPPLIED ACCESSORIES**

Remote control unit ( x 1)  X1	"AAA" size battery ( x 2)  X2
AV cable ( x 2)  Yellow X3	Component cable ( x 1)  Green X4
Stand unit  X5 X6 X7	Operation manual  X8

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[6] SUPPLIED ACCESSORIES</b>					
X1	RRMCGB039WJSA	AY			Remote Contol Unit
X2	UBATAA002WJZZ	AG			AA Size Battery,x2
X3	QCNWGA171WJPZ				AV CABLE x2
X4	QCNWGA174WJPZ				COMPONENT CABLE
X5	CDAL-A778WJ23	BD			STAND BASE ASSEMBLY
X6	CANGKD276WJ03	AQ			STAND ANGLE ASSEMBLY, x2
X7	CSAKHA050WE05	AL			PACK FOR SCREW
X8	TINS-F387WJZZ	AM			Operation Manual
X8	TINS-F390WJZZ	AM			Operation Manual
X8	TINS-F391WJZZ	AH			Operation Manual
X8	TINS-F389WJZZ	AM			Operation Manual
X8	TINS-F585WJZZ	AP			Operation Manual
X8	TINS-F586WJZZ	AU			Operation Manual
X8	TINS-F385WJZZ	AH			Operation Manual
X8	TINS-F386WJZZ	AS			Operation Manual

## [7] PACKING PARTS ( NOT REPLACEMENT ITEM )



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
<b>[7] PACKING PARTS ( NOT REPLACEMENT ITEM )</b>					
S1	SPAKCG896WJZZ	BA			PACKING CASE (B/D/J/M/N/P/X/Y/Z)
S1	SPAKCG926WJZZ	BA			PACKING CASE (I)
S2	SPAKCG898WJZZ	AS			BOTTOM CASE
S3	SPAKPB596WJZZ	AP			HOSO PP
S4	SPAKPB722WJZZ				STAND MIRROR MAT BASE
S5	SPAKPB723WJZZ				STAND MAT SUPPORT
S6	SPAKXD752WJZZ	AV			PACKING FOAM TOP
S7	SPAKXD753WJZZ	AT			PACKING FOAM BOTTOM
S8	SSAKA0005PEZZ	AA			SACK FOR MANUAL
S9	SSAKHA050WJZZ	AB			SACK FOR SCREW
S10	TLABV0182AJZZ	AB			NO CARD
S11	TLABZC327WJZZ	AF			PACKING POP (Y)
S12	TLABZD307WJZZ	AB			CARTON LABEL (Y)

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