

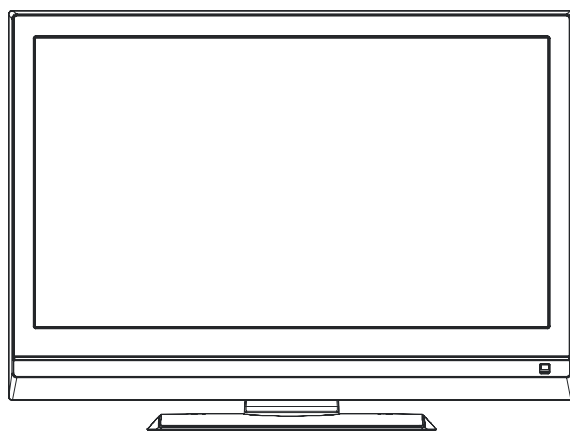
HITACHI

SERVICE MANUAL

YK

No.055E

L37X01A
L42X01A



L37X01A : The LCD panel made from IPS-Alpha is used for this product.

L42X01A : The LCD panel made from LPL is used for this product.

Caution

Be sure to read this manual before servicing. To ensure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this LCD TV.

Be sure to read cautionary items described in the manual before servicing.

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that described in the operating instructions unless you are qualified to do so.

Service Warning

1. Since the Panel Module and the front Filter are made of glass, handling the broken Module and Filter carefully and with caution in order not to receive injury.
2. Replacement work should be started after the Panel Module and the AC/DC Power supply have become sufficiently cool.
3. Special care should be taken when working near the display area in order not to damage its surface.
4. The Panel Module should not be touched with bare hands in order to protect its surface from blemishes and damage.
5. It is recommended that you use clean soft gloves during the replacement work in order to protect not only the display area of the Panel Module but also yourself.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

LCD TV

September 2007

CAUTION FOR SAFETY

Please read this page before repair the TV.

The following safety precautions are designed to help you stay safe and prevent accidents during the repair work.

- **Please take note of these cautionary flags.**

	Warning	This means " Potential to sustain injury or even death. "
	Caution	This means " Potential to sustain breakage or irreparable damage. "

- **Also note these cautionary icons**

	This means " CAUTION "		This means " MUST "
	This means " POTENTIAL ELECTRIC SHOCK "		This means " DO NOT "

 WARNING			
■ Follow instructions.  The cabinet, chassis, and labels are parts that require attention. You must follow the caution notes and safety instructions presented throughout this User Manual to prevent damage to them or injury to yourself.	■ Must use same types of wires and components.  The TV uses special tubes and tapes made from insulated materials. Moreover, some materials are kept from making contact with the PWB for the sake of safety. Internal leads are kept from hot parts or high voltage parts by means of clamps or other measures. As such, you must restore these parts to their original conditions in order to prevent electric shock or fire.		
■ Prevent electric shock.  Exercise caution while working on the device as the TV contains high voltage parts and power supply. It is possible to sustain severe injury or death if you accidentally touch the wrong parts. You must disconnect the power supply while servicing, reassembling, or change parts. If you touch a live connection it is possible to sustain severe injury or death.	■ Perform safety check when done.  Every part (such as removed screws, components, and wiring) must be restored to their prior conditions after servicing. Be sure to check everything that was repaired for damage or mistakes. Also measure the insulated impedance with a meg-ohm meter to confirm that the impedance value is more than 4M ohm. If the impedance value is less than 4M ohm, then electric shock or fire may result.		
■ Use recommended components.  Use only the recommended components or components that are structurally identical to the originals. This is to ensure safety and reliability. Pay special attention to parts in the parts list and circuit diagrams marked with . If you use non-recommended components, then electric shock or fire may result.	■ Do not try to check the HDCP code and combination circuit.  Never remove the shield case protecting the HDCP code and combination circuit.		

PRECAUTIONS

- **Cleaning the LCD panel of the television**

Please make sure to unplug the power cord before cleaning the television.

- Wipe the panel with a lint-free and dry cloth in order to prevent damage to the panel surface.
- Do not use a chemical cloth or cleaner. Depending on the ingredients, it may cause discoloration and damage the panel surface.
- Do not wipe with a hard cloth or rub hard. It may hurt the panel surface.
- In case of the greasy dirt such as fingerprint, wipe with a lint-free cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Do not use a spray cleaner. It could cause malfunction.

- **Cleaning the monitor's cabinet of the television**

- The following may cause crack, deformation, and paint peeling.
- Do not wipe the cabinet with benzene, thinner, and other chemical products.
- Do not spray volatile solutions such as insecticide over the cabinet.
- Do not leave the cabinet in prolonged contact with plastic or rubber materials.
- Do not use a chemical cloth, cleaner or wax. Depending on the ingredients, it may cause crack and deformation.
- Use a lint-free cloth to clean the cabinet and control panel of the television. In case of the heavy dirt, wipe with a soft cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Never use the following detergents. It could cause crack, discoloration, and scratch.
- Acid/ alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc.

1. Features

- Large-screen and high-definition LCD panel.
- Improved Digital signal processor.
- Accept more digital input devices with HDMI terminals.
- Great diversity of connecting terminals to cover wide range of audio-visual equipments.
- Enjoy the image from PC with large, high-definition LCD screen.
- Easy-to-use On-Screen Display system operating with Remote control.
- Low power consumption with Power Saving feature.

- **Digital Terrestrial Television Broadcasting**

Converting into digital signal enables to provide more channels and various useful features, such as Electric Programme Guide, Digital Teletext, and so on. Further, digital signal can create high quality picture.

2. Specifications

SPECIFICATION		L37X01A	L42X01A
Panel	Display dimensions	Approx. 37 inches (820 (H) × 461 (V)mm, diagonal 941 mm)	Approx. 42 inches (930(H) × 523 (V)mm, diagonal 1067 mm)
	Resolution	1920(H) x 1080 (V) pixels	
Net dimensions		including Stand: 910 (W) x 680 (H) x 365 (D) mm excluding Stand: 910 (W) x 627 (H) x 125 (D) mm	including Optional Stand: 1033 (W) x 749 (H) x 365 (D) mm excluding Optional Stand: 1033 (W) x 692 (H) x 126 (D) mm
Net weight		including Stand: 24.2 kg excluding Stand: 19.9 kg	including Optional Stand: 28.3kg excluding Optional Stand: 24.0 kg
Ambient conditions	Temperature	Operating: 5°C to 35°C, Storage: 0°C to 40°C	
	Relative humidity	Operating: 20% to 80%, Storage: 20% to 90% (non-condensing)	
Power supply		AC110 - 240V, 50/60Hz	
Power consumption/at standby		167W/< 2W	200W/< 2W
Audio output		speaker total 20W	
(VIDEO input)			
Input terminals		AV1 • AV2: component video input terminal (RCA) L/R audio input terminal (RCA) AV3 • AV4: composite video input terminal (RCA) S video input terminal* ¹ L/R audio input terminal (RCA) HDMI1~3 : HDMI input terminal	
Input signals		Composite video : PAL, SECAM, NTSC3.58, NTSC4.43, PAL60 Component video: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60 HDMI1~3 : 480i, 576i, 480p, 576p,720p/50, 720p/60,1080i/50,1080i/60,1080p/50, 1080p/60, 1080p/24	
Output signals		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) OUTPUT (HEADPHONE): L/R audio monitor- output terminal (Mini-pin) OPTICAL OUT (Digital Audio) : PCM, Dolby® Digital	
(RF input)			
Input terminal / Receiving range		ANT: 75Ω Unbalanced / 44~870MHz	
RF Video System		PAL B, G, H / I / D, K SECAM B, G / D, K / K1 NTSC-M DVB-T	
(RGB input)			
Input terminals		Analog RGB input terminal (D-sub 15-pin) Audio input terminal (3.5mm Stereo Mini Jack)* ²	
Input signals		0.7 V, analog RGB (Recommended Signal)	
Sync signals		H/V separate, TTL level [2kΩ]	

- The television takes at least 30 minutes to attain the status of optimal picture quality.

*¹ S-Video input terminal is available for AV3 of L37X01A only.

*² This analog audio input terminal can be used for PC (RGB) or HDMI 1~3 only.

- The Expression of input signal mode (format)

With HDMI INPUT

[Table] Digital HDMI 1 Video Timing Chart

No	Signal mode			Horizontal frequency (KHz)	Dot clock frequency (MHz)	Remarks
	Signal name	Resolution	Vertical frequency (Hz)			
1	VGA	640x480	59.94	31.47	25.18	EIA-861D
2	XGA	1024x768	60	48.36	65	VESA
3	576i	720(1440)x576	50	15.63	27	EIA-861D
4	480i	720(1440)x480	59.94	15.73	27	EIA-861D
5	576p	720x576	50	31.25	27	EIA-861D
6	480p	720x480	59.94	31.47	27	EIA-861D
7	1080i/50	1920x1080	50	28.13	74.25	EIA-861D
8	1080i/60	1920x1080	60	33.75	74.25	EIA-861D
9	720p/50	1280x720	50	37.5	74.25	EIA-861D
10	720p/60	1280x720	60	45	74.25	EIA-861D
11	1080p/50	1920x1080	50	56.25	148.5	EIA-861D
12	1080p/60	1920x1080	60	67.5	148.5	EIA-861D
13	1080p/24	1920x1080	24	27	74.25	EIA-861D

[Table] Digital HDMI 2 & 3 Timing Chart

No	Signal mode			Horizontal frequency (KHz)	Dot clock frequency (MHz)	Remarks
	Signal name	Resolution	Vertical frequency (Hz)			
1	VGA	640x480	59.94	31.47	25.18	EIA-861D
2	576i	720(1440)x576	50	15.63	27	EIA-861D
3	480i	720(1440)x480	59.94	15.73	27	EIA-861D
4	576P	720x576	50	31.25	27	EIA-861D
5	480P	720x480	59.94	31.47	27	EIA-861D
6	1080i/50	1920x1080	50	28.13	74.25	EIA-861D
7	1080i/60	1920x1080	60	33.75	74.25	EIA-861D
8	720p/50	1280x720	50	37.5	74.25	EIA-861D
9	720p/60	1280x720	60	45	74.25	EIA-861D
10	1080p/50	1920x1080	50	56.25	148.5	EIA-861D
11	1080p/60	1920x1080	60	67.5	148.5	EIA-861D
12	1080p/24	1920x1080	24	27	74.25	EIA-861D

With Component Video INPUT

[Table] Component Video Timing Chart

No	Signal mode			Horizontal frequency (KHz)	Dot clock frequency (MHz)	Remarks
	Signal name	Resolution	Vertical frequency (Hz)			
1	576i	720(1440)x576	50	15.63	27	EIA-861D
2	480i	720(1440)x480	59.94	15.73	27	EIA-861D
3	576P	720x576	50	31.25	27	EIA-861D
4	480P	720x480	59.94	31.47	27	EIA-861D
5	1080i/50	1920x1080	50	28.13	74.25	EIA-861D
6	1080i/60	1920x1080	60	33.75	74.25	EIA-861D
7	720p/50	1280x720	50	37.5	74.25	EIA-861D
8	720p/60	1280x720	60	45	74.25	EIA-861D
9	1080p/50	1920x1080	50	56.25	148.5	EIA-861D
10	1080p/60	1920x1080	60	67.5	148.5	EIA-861D
11	1080p/24	1920x1080	24	27	74.25	EIA-861D

With RGB input

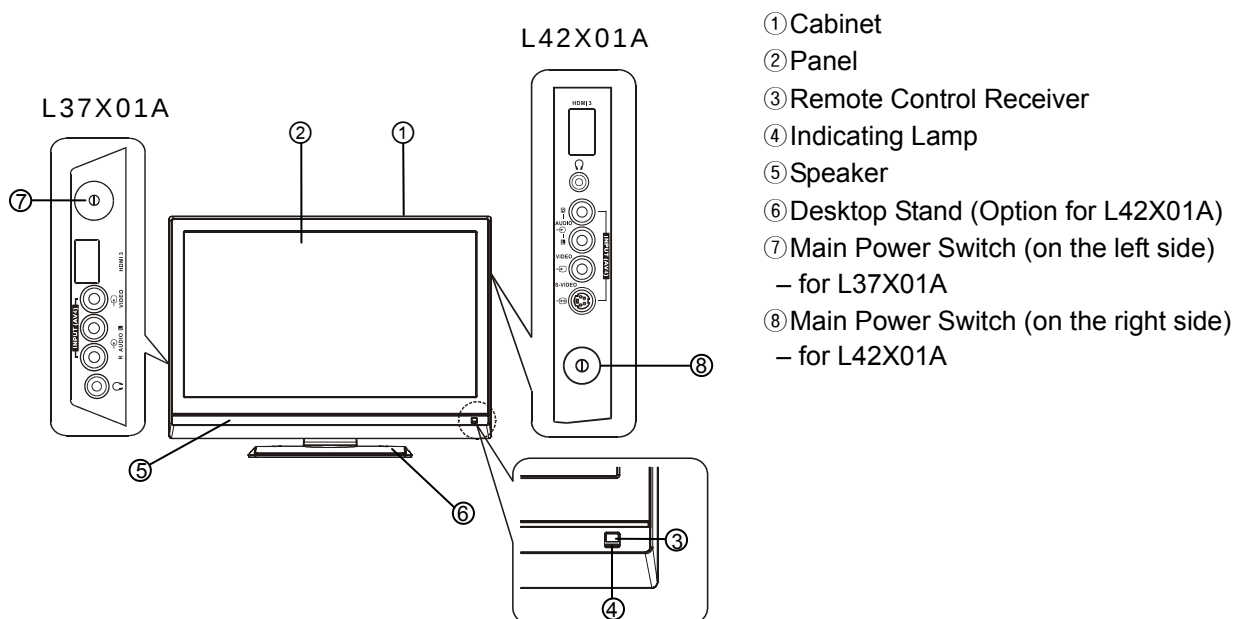
No	Signal mode			Horizontal frequency (KHz)	Dot clock frequency (MHz)	Remarks
	Signal name	Resolution	Vertical frequency (Hz)			
1	VGA	640 x 400	70.086	31.469	25.175	VESA IS00000003
2		640 x 480	59.94	31.47	25.18	
3	VESA	800 x 600	60.32	37.88	40	
4		1024 x 768	60	48.36	65	
5		1280 x 1024	60.02	63.98	108	
6	VESA	1280 x 768	59.876	47.776	79.5	VESA 8/21/03
7		1360 x 768	60.015	47.712	85.5	VESA 8/21/03

- The type of video board or connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.
- The television may fail to display an animation image correctly when a signal having a vertical frequency of 72Hz or higher is input to it.
- The television differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.
- Displaying images with more than 768 lines of vertical resolution a Full display (compressed display) can result in the interpolation of stripes.

3. Component names

[Main unit]

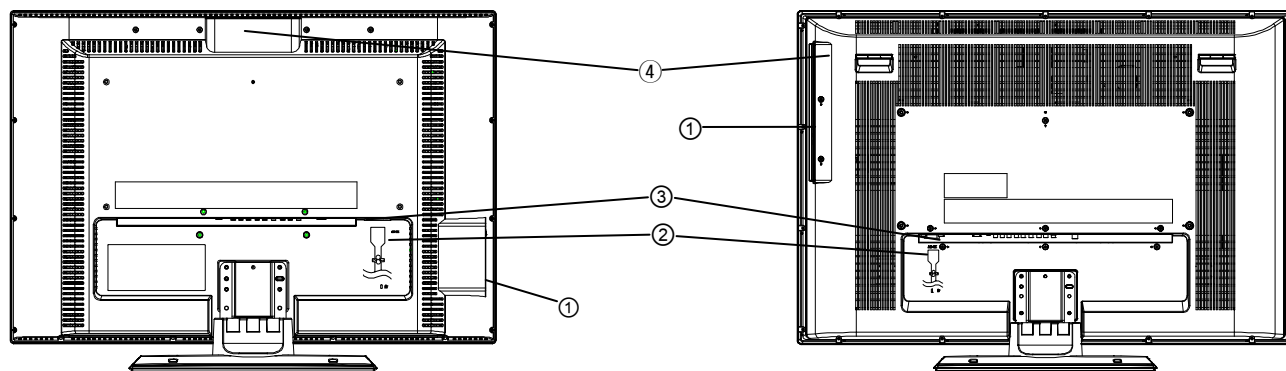
Front Panel



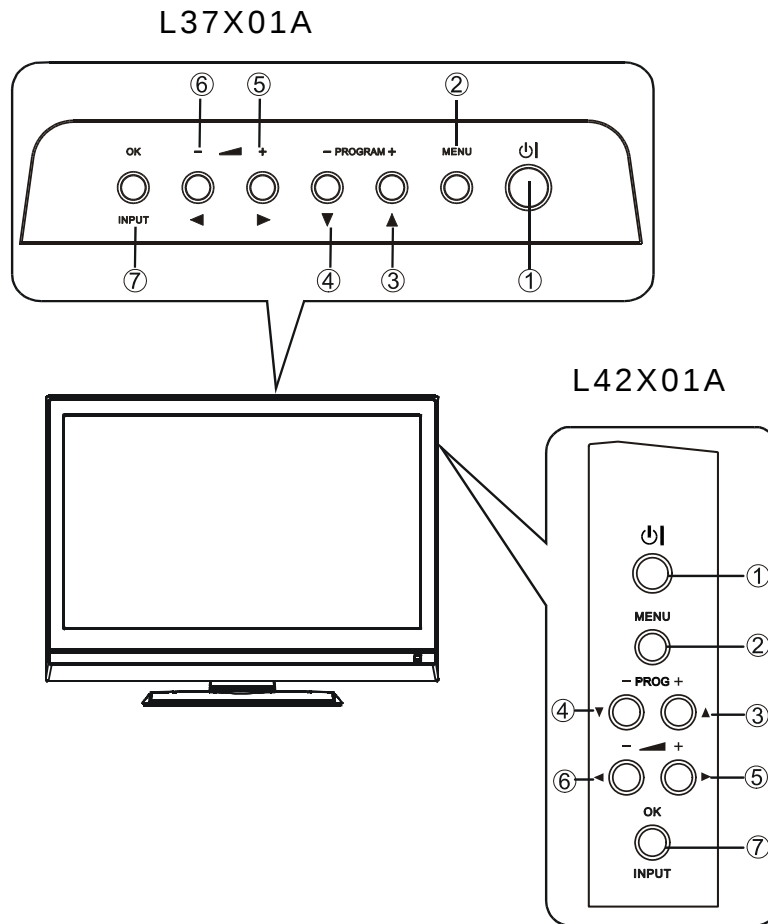
Rear Panel

L37X01A

L42X01A

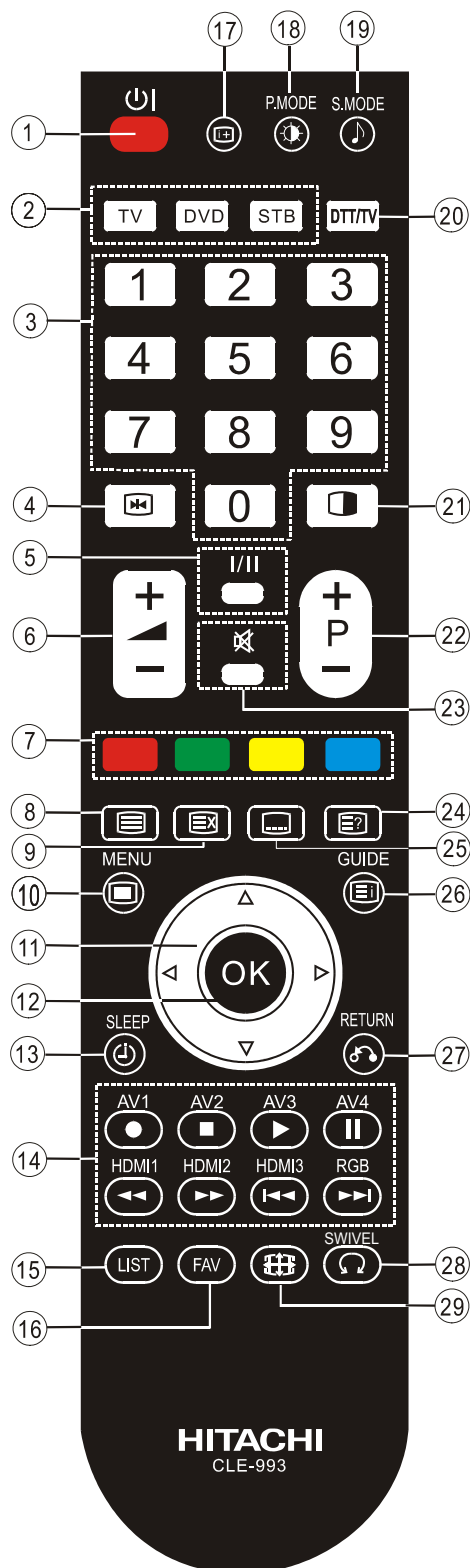


Control Panel



- ① Sub Power button
- ② Menu button
- ③ Channel Up/ ▲ button
- ④ Channel Down/ ▼ button
- ⑤ Volume Up +▲ /▶ button
- ⑥ Volume Down ▼▲ /◀ button
- ⑦ Input Select /OK button

Remote Control



- ① **Sub Power**
Press this button to switch TV On or Off standby.
- ② **Device Select (TV/DVD/STB)**
Press these buttons to select the device (TV, DVD or STB) to be controlled by this remote control.
The selected button will light up to display the selected mode. Normally, select "TV".
- ③ **Program Select [Page Select]**
Press these buttons to select a TV program directly. For 2 or 3 digits channel selection, press button in advance.
- ④ **Freeze [Hold]**
Press this button to change the picture to freeze mode.
Press it again to return to normal picture. (Also, it holds the page in teletext mode.)
- ⑤ **CHI/II**
This is exclusively for TV audio A2/NICAM mode.
- ⑥ **Volume Up/Down**
- ⑦ **[Color]**
- ⑧ **TV/Text [TV ⇌ Text]**
This switches between the TV mode and the Teletext mode.
- ⑨ **Time [Cancel]**
Press this button to display the time when receiving an analog TV program. The time is not displayed if the received signal does not have any time information.
- ⑩ **Menu [Back Light]**
- ⑪ **Cursor**
- ⑫ **OK**
- ⑬ **Off Timer**
This automatically sets the power to standby mode when the selected time period has elapsed. (0→30→60→90→120min.)
- ⑭ **Input Select/DVD Control**
Press these buttons to change input mode. In addition, you can use these buttons while operating the selected brand of DVD player.
- ⑮ **Not Available**
- ⑯ **Not Available**
- ⑰ **Recall**
Press this button shows the input signal status.
- ⑱ **Picture Mode**
Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural →Cinema
- ⑲ **Sound Mode**
Sound mode can be changed each time pressed in the following sequence. Movie→ Music→Speech→Favorite.
- ⑳ **DTT/TV**
Press this button to select DTT (Digital Terrestrial TV) mode or TV mode. Note: DTT is not available for this model.
- ㉑ **Multi Picture**
Press this button to change the picture to multi-picture mode. Press it again to return to normal picture.
- ㉒ **Channel Up/Down[Page select]**
- ㉓ **Mute**
- ㉔ **[Reveal]**
- ㉕ **[Subtitle]**
- ㉖ **[Index]**
- ㉗ **Return**
You can use this to return to the previous menu.
- ㉘ **Not Available**
- ㉙ **Picture Size [Zoom]**
Press this button to change picture size.

NOTE

Some buttons are only for Teletext mode, and other buttons have different functions in Teletext mode from the use of TV mode. Those buttons are indicated by [].

4. Service points

● Lead-free solder

This product uses lead-free solder (unleaded) to help protect the environment. Please read these instructions before attempting any soldering work.

Caution: Always wear safety glasses to prevent fumes or molten solder from getting into the eyes. Lead-free solder can splatter at high temperatures (600°C).

■ Lead-free solder indicator

Printed circuit boards using lead-free solder are engraved with an "F."

■ Properties of lead-free solder

The melting point of lead-free solder is 40-50°C higher than leaded solder.

■ Servicing solder

Solder with an alloy composition of Sn-3.0Ag-0.5Cu or Sn-0.7Cu is recommended. Although servicing with leaded solder is possible, there are a few precautions that have to be taken. (Not taking these precautions may cause the solder to not harden properly, and lead to consequent malfunctions.)

Precautions when using leaded solder

- Remove all lead-free solder from soldered joints when replacing components.
- If leaded solder should be added to existing lead free joints, mix in the leaded solder thoroughly after the lead-free solder has been completely melted (do not apply the soldering iron without solder).

■ Servicing soldering iron

A soldering iron with a temperature setting capability (temperature control function) is recommended. The melting point of lead-free solder is higher than leaded solder. Use a soldering iron that maintains a high stable temperature (large heat capacity), and that allows temperature adjustment according to the part being serviced, to avoid poor servicing performance.

Recommended soldering iron:

- Soldering iron with temperature control function (temperature range: 320-450°C)

Recommended temperature range per part:

Part	Soldering iron temperature
Mounting (chips) on mounted PCB	320°C±30°C
Mounting (chips) on empty PCB	380°C±30°C
Chassis, metallic shield, etc.	420°C±30°C

The PWB assembly which has used lead free

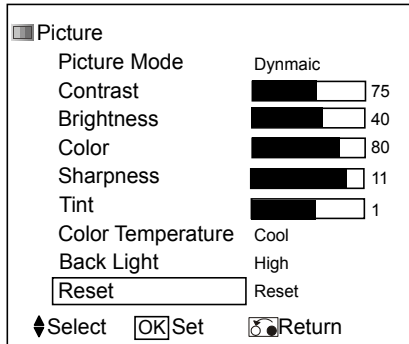
- (1) IR PWB, SW PWB, KEY PWB, SIDE I/O PWB , **SIDE HDMI PWB**
- (2) FORMATTER PWB
- (3) POWER BOARD

5.Adjustment

5.1 Color Temperature Adjustment Procedure

1. Preparation

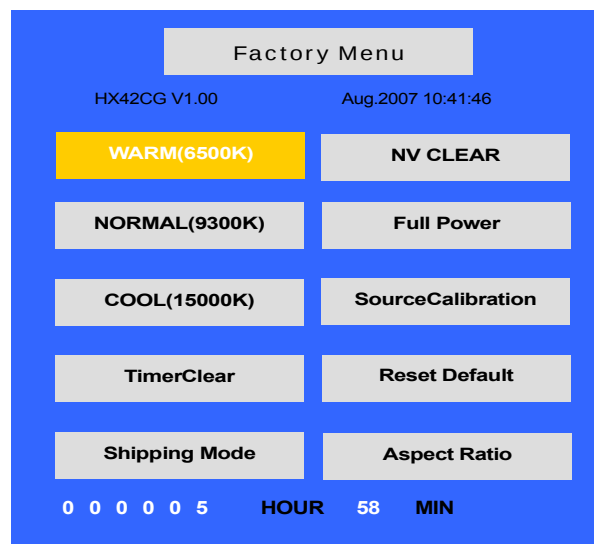
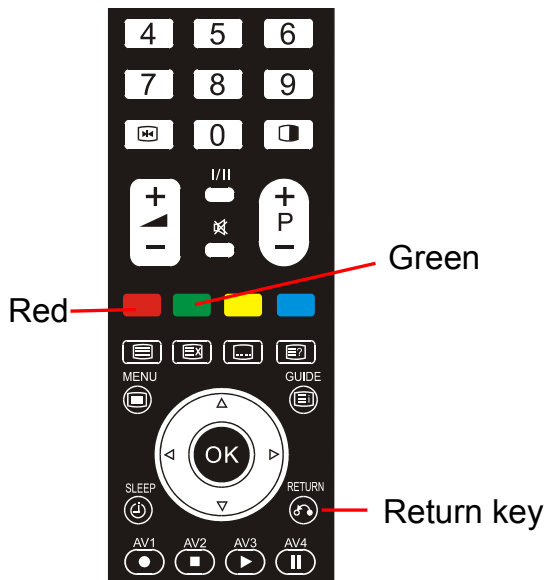
1. Set the signal generator (ASTRO VG859A or equivalent) to RGB, 1024*768, 60HZ, Level:0.7V, all white pattern..
2. Turn on the set and select RGB source,perform pre-heat run more than 30 min. with Full white pattern.
3. Prepare Minolta CA210,and calibration before adjustment.
4. Press 「Menu」key , Press 「ok」 to select [Picture]→[Reset]→「Reset」→「ok」.



5. Press [Menu] key exit OSD.

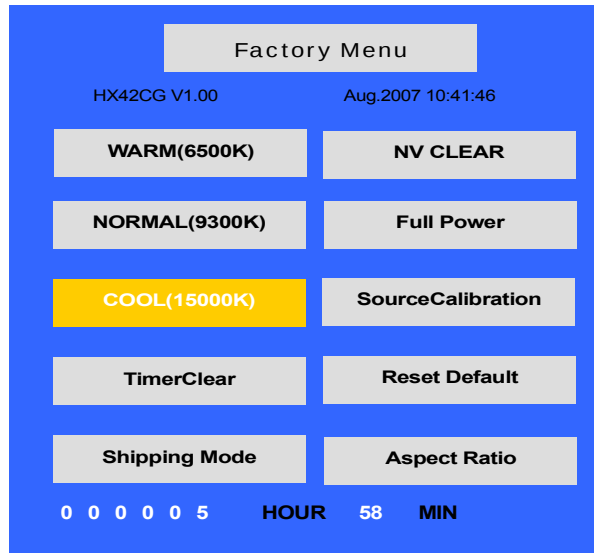
2. Entering into factory Mode:

In VGA mode, press “Red” key, next press “Green” key, next press “Return” key in remote control to enter into factory mode.



3. Source Calibration (RGB)

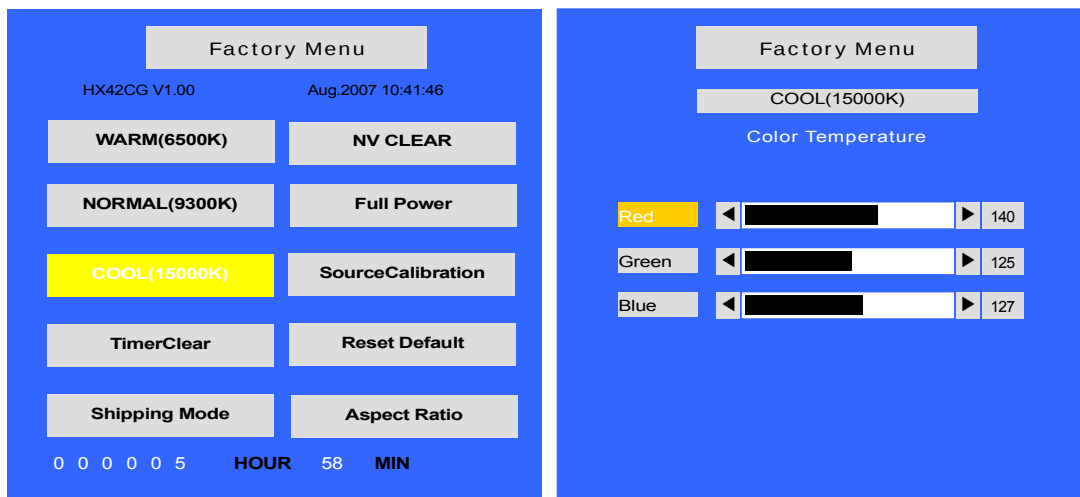
1. Set the signal generator to RGB, Color bar pattern (level: 0.7V, color order from left side: white, yellow, cyan, green, magenta, red, blue, black, width ratio: 12.5% for each color),
2. **Entering into factory Mode:** Press up or down key of remote control to select "Source Calibration", Press 「OK」 key to enter the item.



-> Source calibration performed automatically.

4. Color Temperature Adjustment

- (1) Set the signal generator to RGB, 1024*768, 60HZ, Level:0.56V(80%). Full white pattern.
- (2) Press up or down key of remote control to select "Cool", Press 「OK」 key to enter the item. R, G, B drive values are set for COOL, NORMAL, and WARM independently.



For Red drive, keep initial value (140).

Change Green, or Blue drive as follows;

- Press "Up" or "Down" key to select the item "R", "G", or "B", and press [OK] key to enter.
- Press "Left" or "Right" key to set the value.
- Press [OK] key to exit.

(3) Select 「Cool 15000」

(1) Cool: 15000 K spec.:

$x=0.266\pm0.001$

$y=0.270\pm0.001$

(2) If the x and y value are larger than specification,

Decrease Green drive from default value.

Increase Blue drive from default value.

(3) If the x or y or both x and y value is/are smaller than specification.

Decrease Blue drive from default value

(4) According to a x and y value, please following adjustment of (4)-1 or (4)-2.

(4)-1 If x value is higher than spec

Increase Green drive from default value.

Increase Blue drive from default value.

(4)-2 If y value is higher than spec,

Decrease Green drive from default value

(4) Select [Normal 9300]

Normal: 9300 K spec.:

$x=0.285\pm0.001$

$y=0.293\pm0.001$

Adjust G drive (GREEN) or B drive (BLUE) to set x and y above.

(5) Select [WARM]

(1) WARM: 6500 K spec.:

$x=0.314\pm0.001$

$y=0.327\pm0.001$

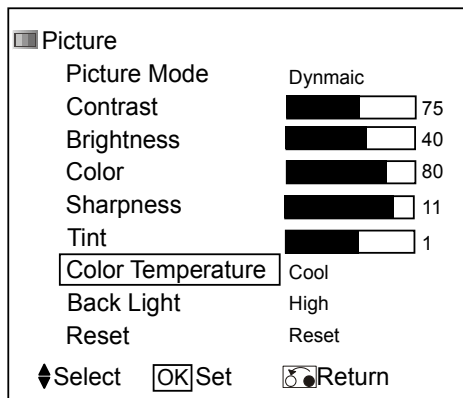
Adjust G drive (GREEN) or B drive (BLUE) to set x and y above.

(6) Exit Factory Mode:

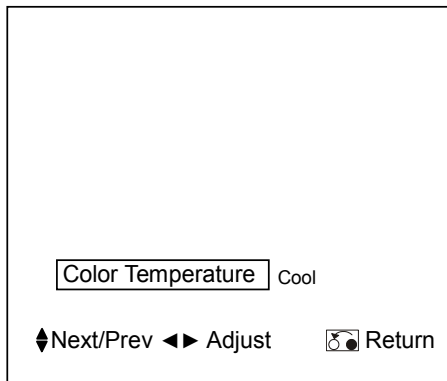
After finish adjusting color temperature, press [MENU] to exit factory mode.

5. Color Temperature Check:

Press 「Menu」key , Press 「ok」 to select [Picture]→[Color Temp.]→[OK].



- (1) Select 「Cool」,check If the color temperature is in spec.

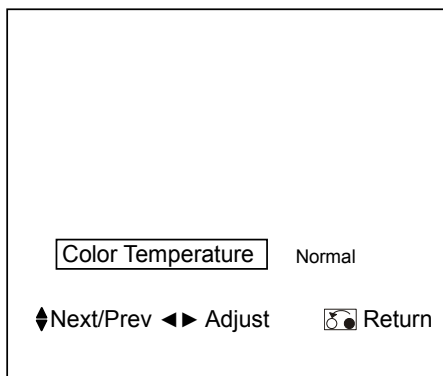


Cool: 15000 K

$x=0.266 \pm 0.005$

$y=0.270 \pm 0.005$

- (2) Select [Normal],check If the color temperature is in spec.

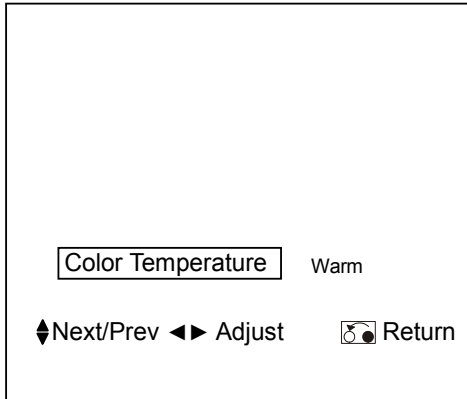


Normal: 9300K

$x=0.285 \pm 0.005$

$y=0.293 \pm 0.005$

- (3) Select [Warm], check If the color temperature is in spec.



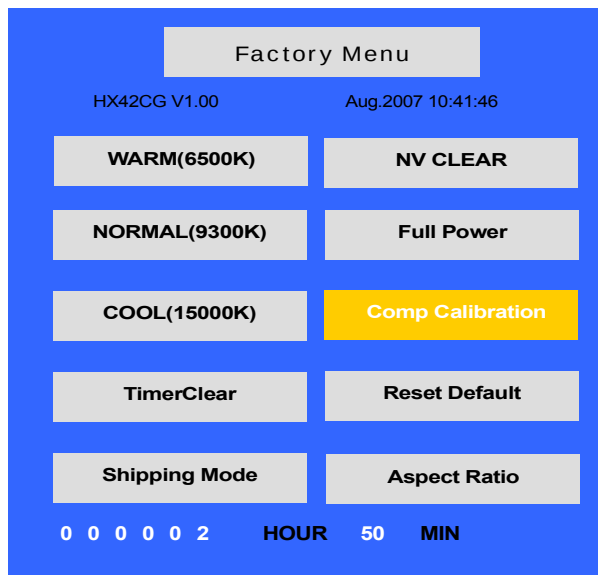
Warm: 6500 K

$x=0.314 \pm 0.005$

$y=0.327 \pm 0.005$

6. Source Calibration (Component only support AV1 port used)

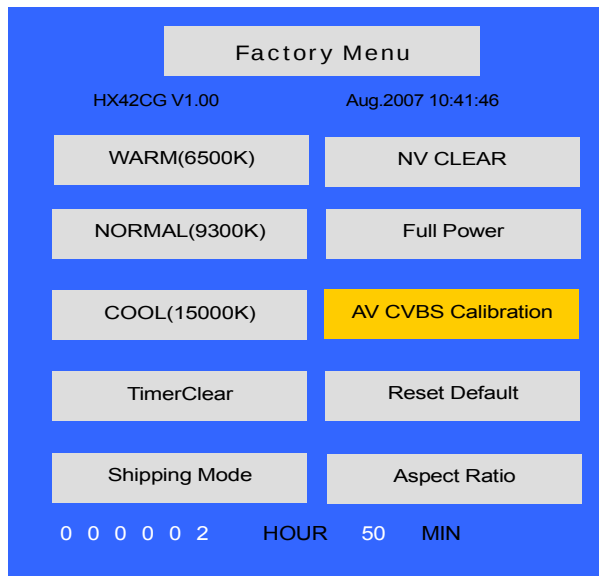
- (1) Set the signal generator to Component, Color bar pattern (level: 0.7V, color order from left side: white, yellow, cyan, green, magenta, red, blue, black, width ratio: 12.5% for each color)
- (2) **Entering into factory Mode**: Press up or down key of remote control to select "Comp Calibration", Press 「OK」 key to start adjusting..



-> Source calibration performed automatically.

7. Source Calibration (CVBS only support AV3 port used)

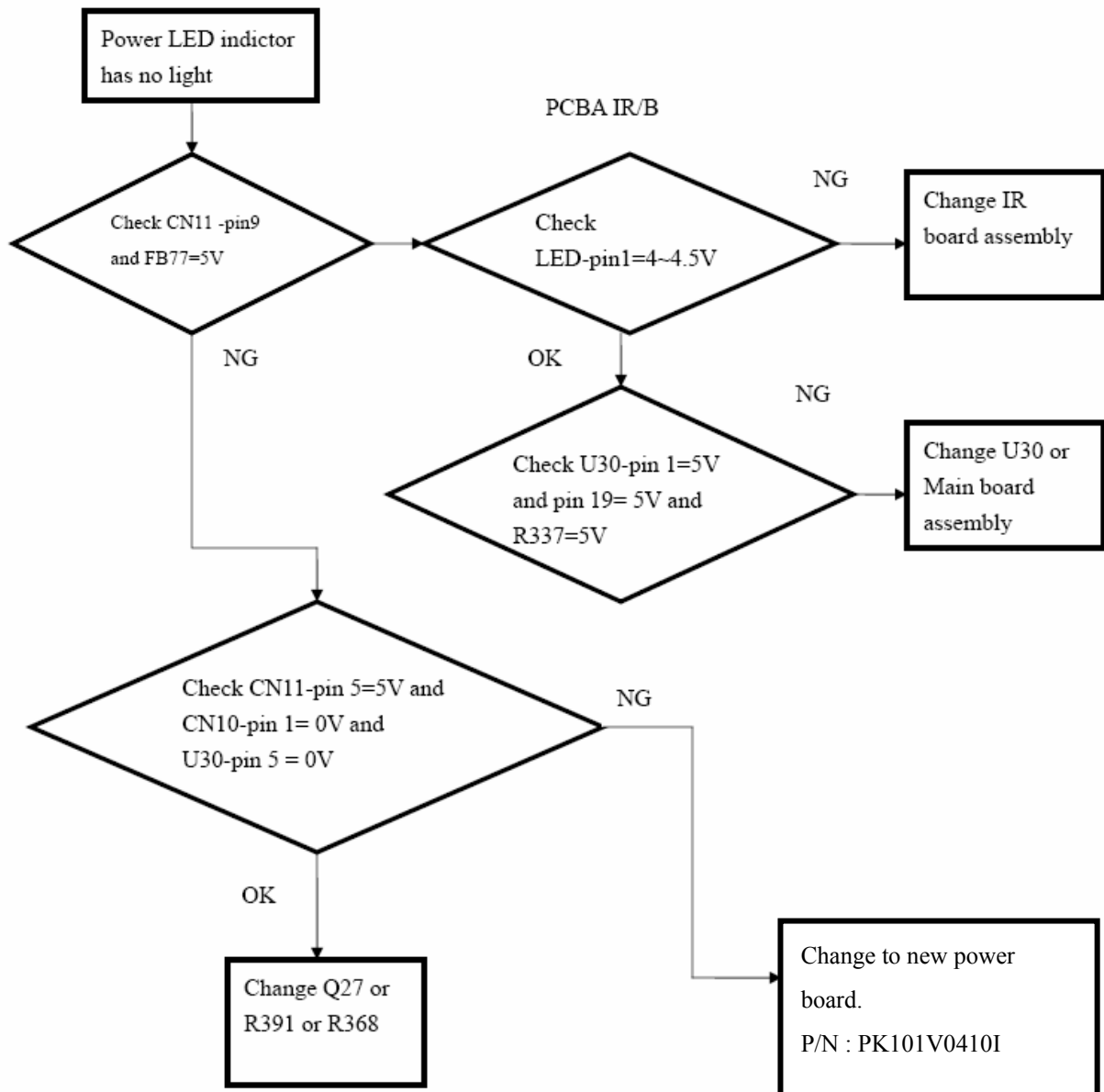
- (1) Set the signal generator to CVBS, Color bar pattern (level: 0.7V, color order from left side: white, yellow, cyan, green, magenta, red, blue, black, width ratio: 12.5% for each color)
- (2) **Entering into factory Mode:** Press up or down key of remote control to select **“AV CVBS Calibration”**, Press 「OK」 key to start adjusting..

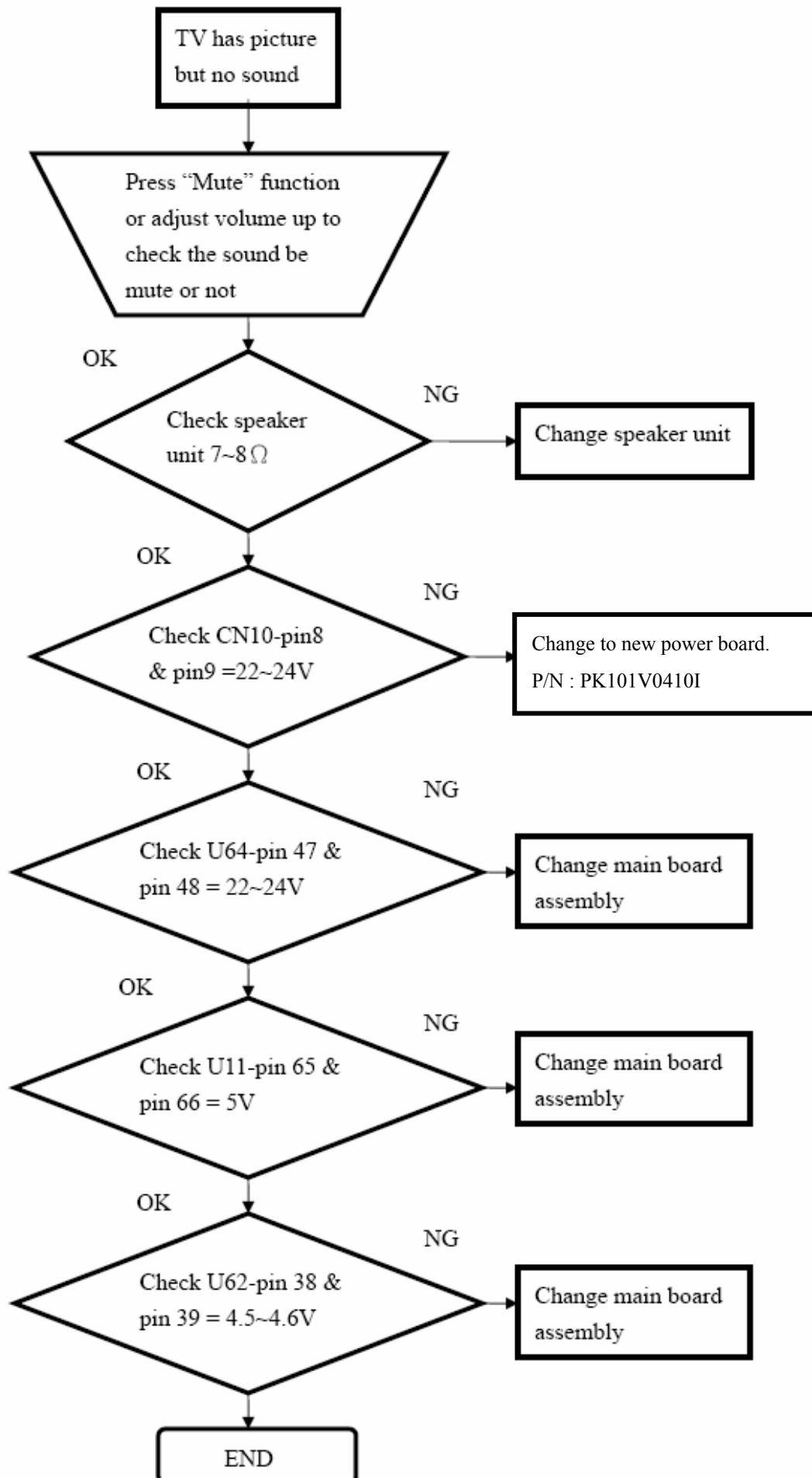


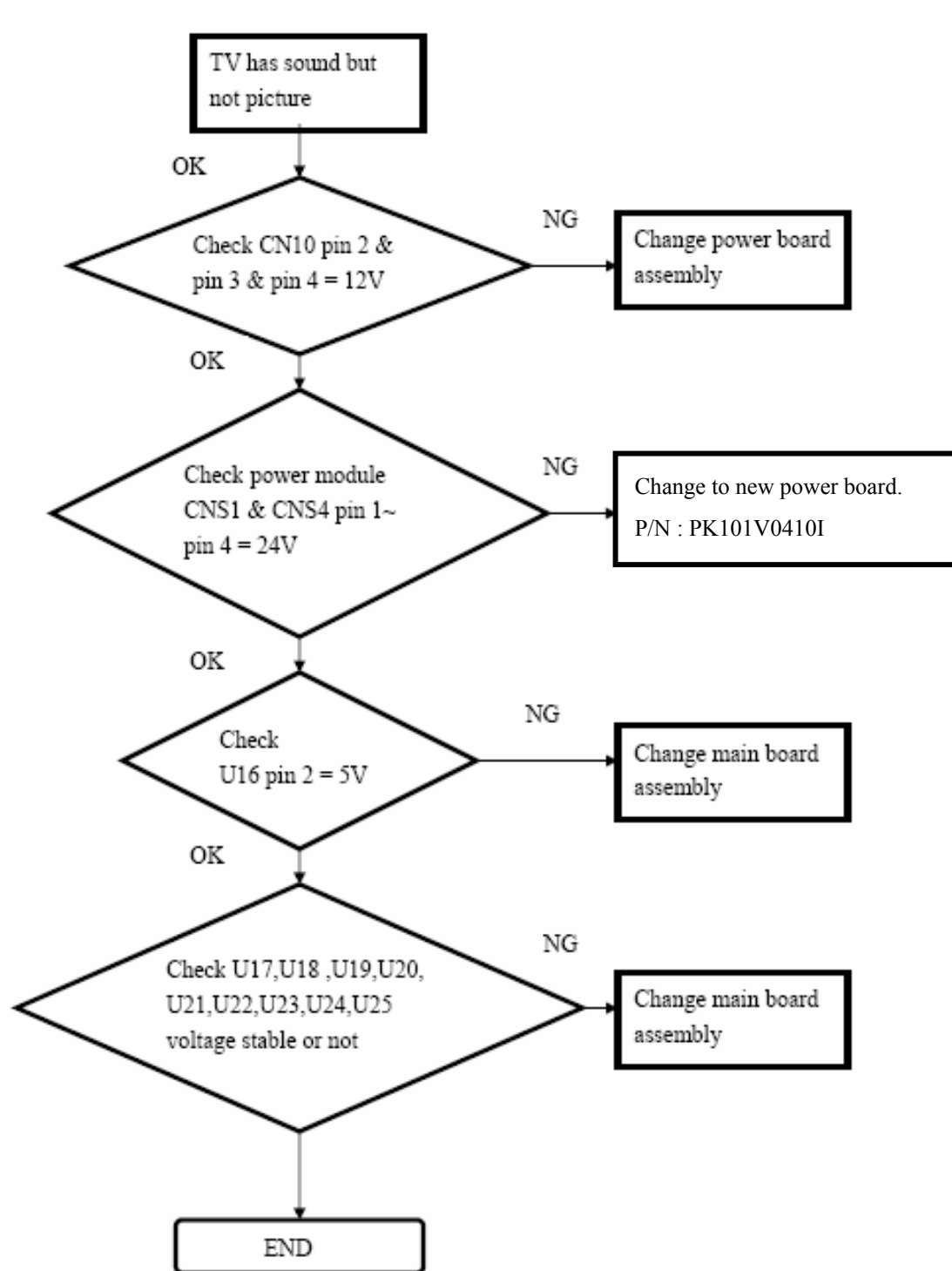
-> Source calibration performed automatically.

6. Troubleshooting

The flow chart shown below will help you to troubleshoot your Television set with it doesn't display normally. Each procedure offers a simple way to check for system errors. Before starting, ensure that there is a signal in and that the Television is turned on.







7. Hotel Menu Operation

Opening Hotel Menu :

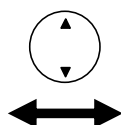
1. Press colorful button "YELLOW & BLUE" of the remote control and hold on, then press "MENU" at least 3 seconds to enter "**Service Mode**".
2. Using the ▲▼ to select "**Hotel Menu**" item and press "ENTER" to show the function table as below figure.
3. Using the ▲▼◀▶ and "ENTER" to select item and change the setting value.
4. Press "RETURN" button of the remote control to exit from "**Hotel Menu**".
5. Press "MENU" button of the remote control to exit from "**Service Mode**".

Page 1

Hotel Menu	
Initial Audio Volume	20
Power ON Source	TV
Main Power ON Reset	OFF
Terminal Mode	OFF
HDMI PC Function	OFF
STB Disconnection Power OFF	OFF
STB Disconnection Power OFF Time	1min
IR Through Available	OFF
Screen Blanking	OFF
Available For Power ON Command	OFF
Available For Power OFF Command	OFF
◆ Select ◀▶ On/Off ⏮ Return	

Page 2

Hotel Menu	
Hotel Mode ON/OFF	OFF
Remote Control Lock	OFF
Front Panel Lock	OFF
PC Power Save Lock	OFF
Power On Initial Audio Volume Level	OFF
Picture Setting Lock	OFF
Picture Size Lock	OFF
Channel Lock	OFF
Fine-Tuning Lock	OFF
Teletext Lock	OFF
PC Power Save Wait Time	10 SEC
Max Audio Volume	63
◆ Select ◀▶ On/Off ⏮ Return	



Selected Items		Setup hint
Hotel Mode ON/OFF	OFF	Enable the Hotel Mode function
	ON	
Remote Control Lock	OFF	This is for locking out the remote control function
	ON	
Front Panel Lock	OFF	This is for locking out the keypad control function
	ON	
PC Power Save Lock	OFF	Set the pc power saving function OFF/ON. PC power saving function is effective when PC Power Save Lock item is set to ON.
	ON	
Power ON Initial Audio Volume Level	OFF	Set audio initial volume OFF/ON when LCD TV power on
	ON	
Picture Setting Lock	OFF	This is for locking out the picture setting function
	ON	
Picture Size Lock	OFF	This is for locking out the picture size adjusting function
	ON	

Selected Items		Setup hint
Channel Lock	OFF	This is for locking out the channel selecting function
	ON	
Fine-Tuning Lock	OFF	This is for locking out the TV fine tuning function
	ON	
Teletext Lock	OFF	This is for locking out the Teletext function
	ON	
PC Power Save Wait Time	5,10,15,20 SEC.	Select the waiting time to enter pc power saving status, it is available when the setting of PC Power Save Lock is ON
Max Audio Volume	10~63	This is adjusted for setting maximum audio volume limitation.
Initial Audio Volume	0~63	Set the audio initial volume when LCD TV power on, it is available when the setting of Power ON Initial Audio Volume Level is ON. The Power ON Initial Audio Volume Level is limited by Max Audio Volume level.
Power ON Source	DTT	Set which source is presented when LCD TV power on, it is available when the setting of Main Power ON Reset is ON. Please refer to the note which is shown below for the initial channel position in TV source.
	TV	
	AV1	
	AV2	
	AV3	
	HDMI1	
	HDMI2	
	HDMI3	
Main Power ON Reset	RGB	
	OFF	Enable to set the initial source specified by the Power ON Source items when LCD TV power on. Picture setting values are not initialized by this function. Please use Reset function in picture menu if required.
	ON	
Terminal Mode	OFF	Enable to control TV by RS232C
	ON	
HDMI PC Function	OFF	Enable to receive PC timing on HDMI source
	ON	
STB Disconnection Power OFF	OFF	Enable to pay TV power control
	ON	
STB Disconnection Power OFF Time	1,2,3,4 min	Select the waiting time to enter STB disconnection power off status, it is available when the setting of STB Disconnection Power OFF is ON
IR Through Available	OFF	This is enable to IR through function
	ON	
Screen Blanking	OFF	Enable to turn off backlight function by special R/C of screen black key
	ON	
Available For Power ON Command	OFF	Enable to execute special R/C of power on key
	ON	

Selected Items		Setup hint
Available For Power OFF Command	OFF	Enable to execute special R/C of power off key function
	ON	

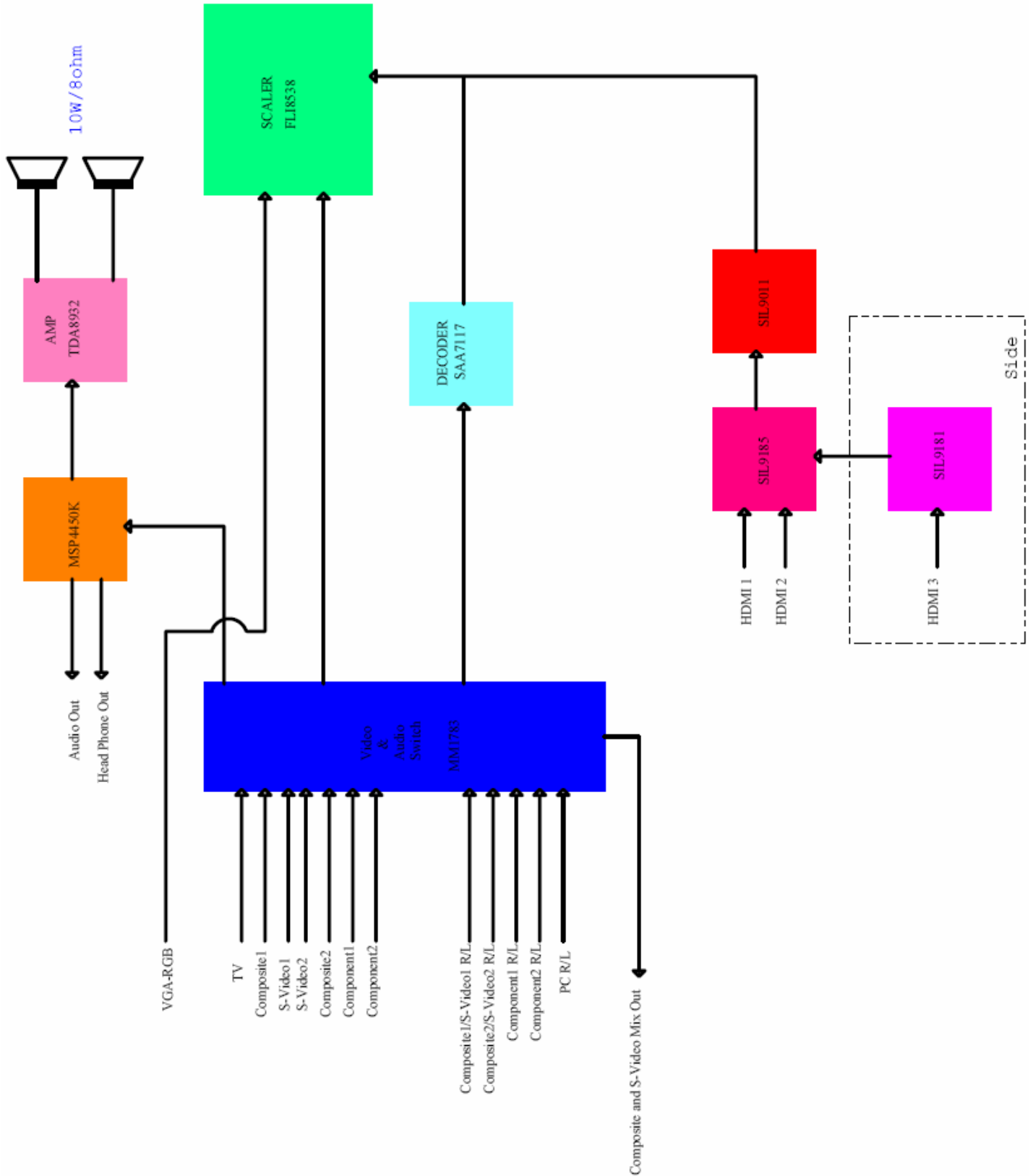
NOTES:

1. The default setting of all hotels menu items are off.
2. When the **Hotel Mode** item is ON, P+/P- button of the remote or keypad can cyclically select the TV channel and source:

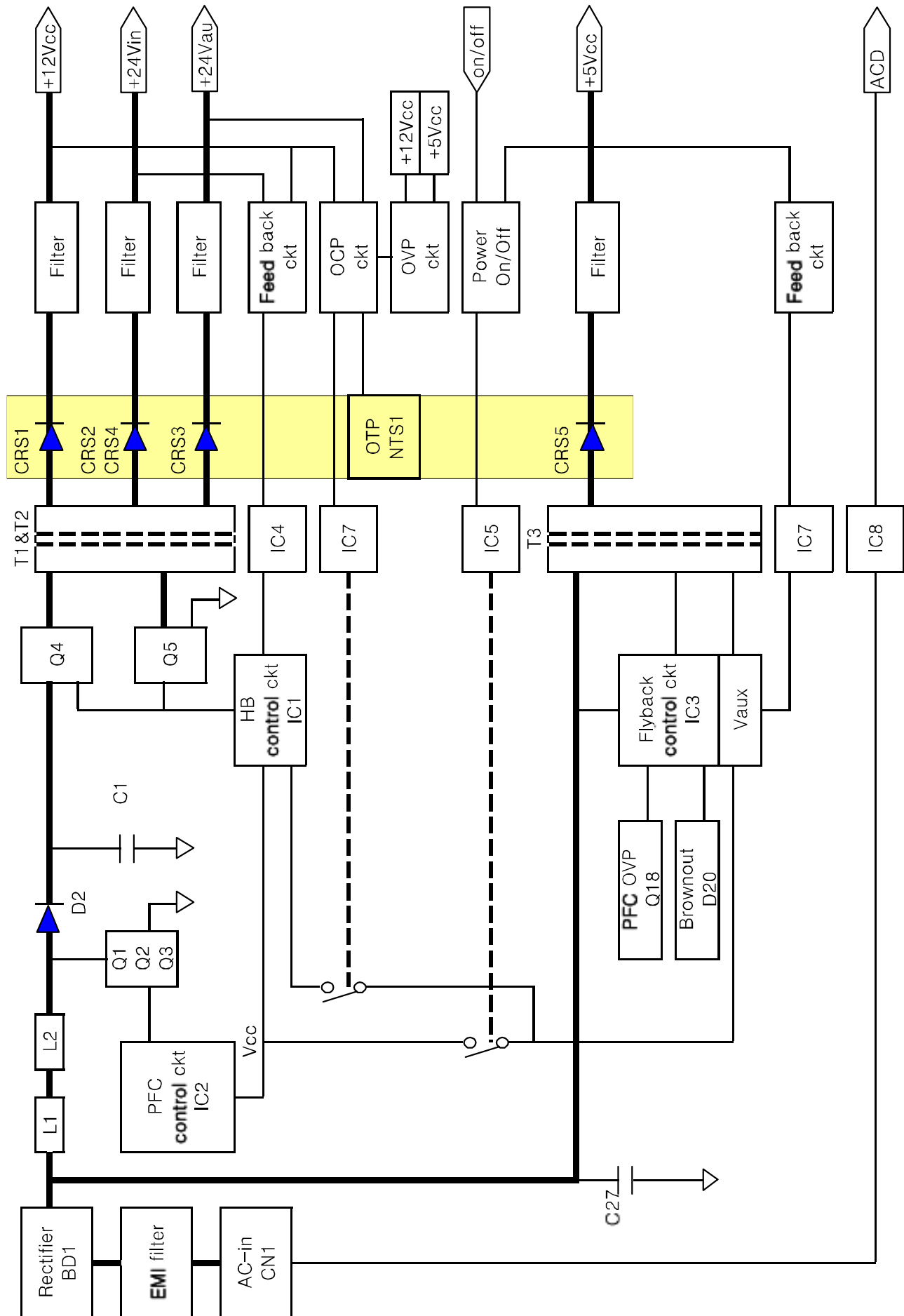
→ 1,2,.....,125,AV1, AV2, AV3,AV4 HDMI1,HDMI2,HDMI3 →

3. Selectable initial channel position: when the **Power ON Source** item is TV, switch the **Main Power ON Reset** item OFF->ON can save current TV channel for power on initial channel, for example:
Select channel "2"(position)→ Enter to **Hotel menu**→Set **Power ON source** to TV → **Main Power ON Reset** from OFF to ON→ exit of the menu→Select channel "30"(position)→TV Power OFF then ON→ show TV channel "2"(position) directly
4. the default setting of Power ON Source as follow:
Non-DTT mode : TV
DTT mode : DTT

8. Block Diagram

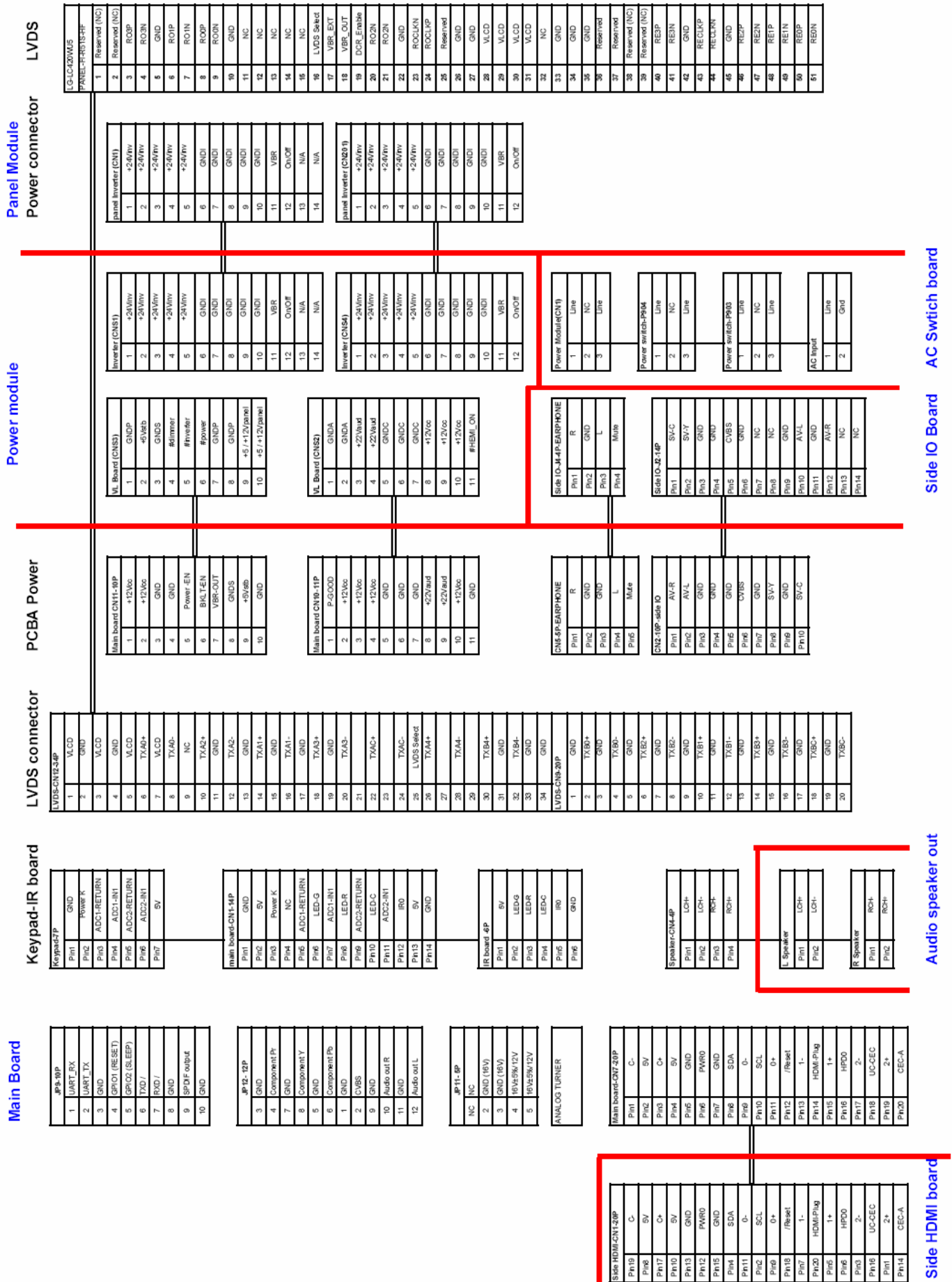


L42X01A
L37X01A

POWER BOARD**L42X01A**

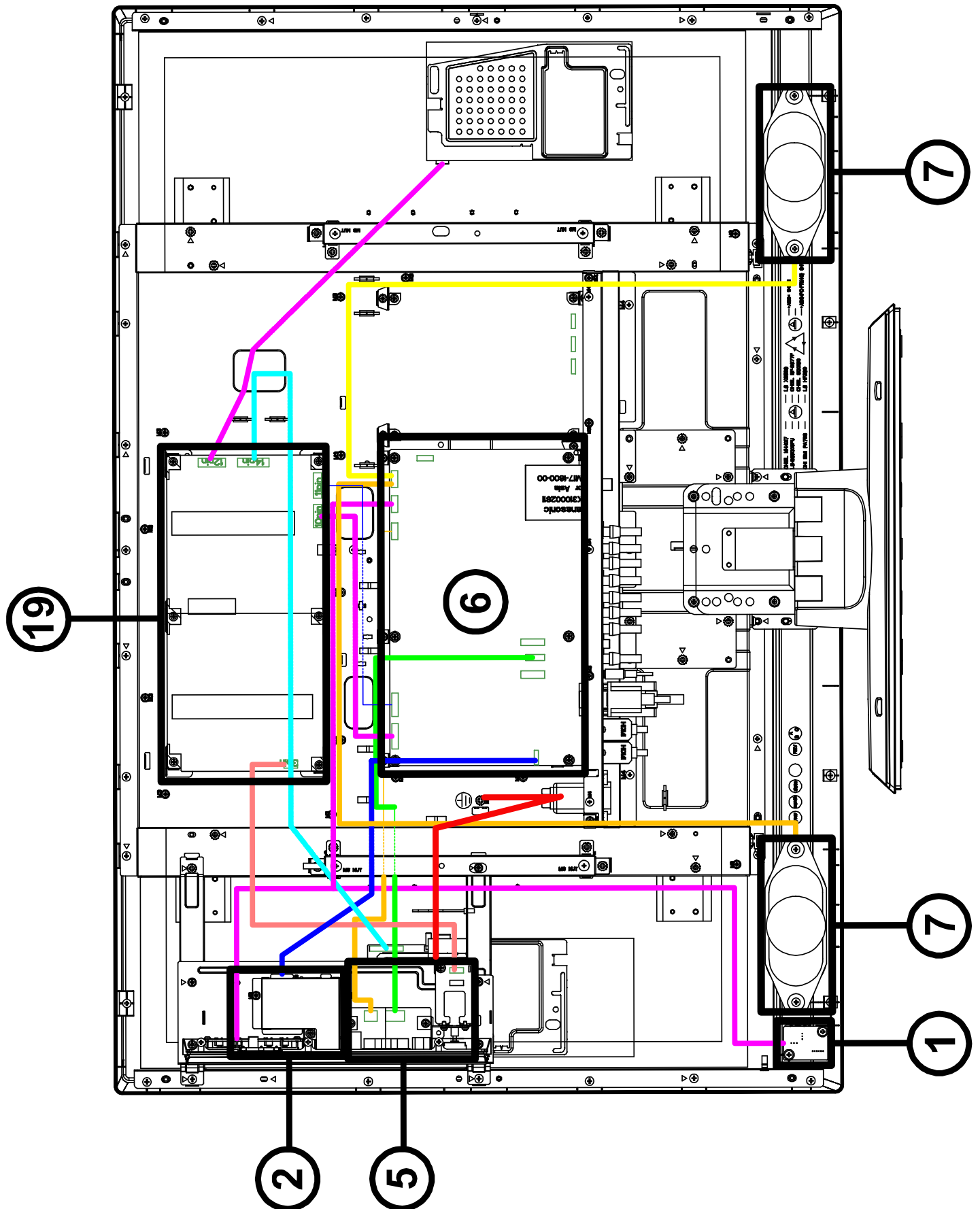


9. Connection Diagram

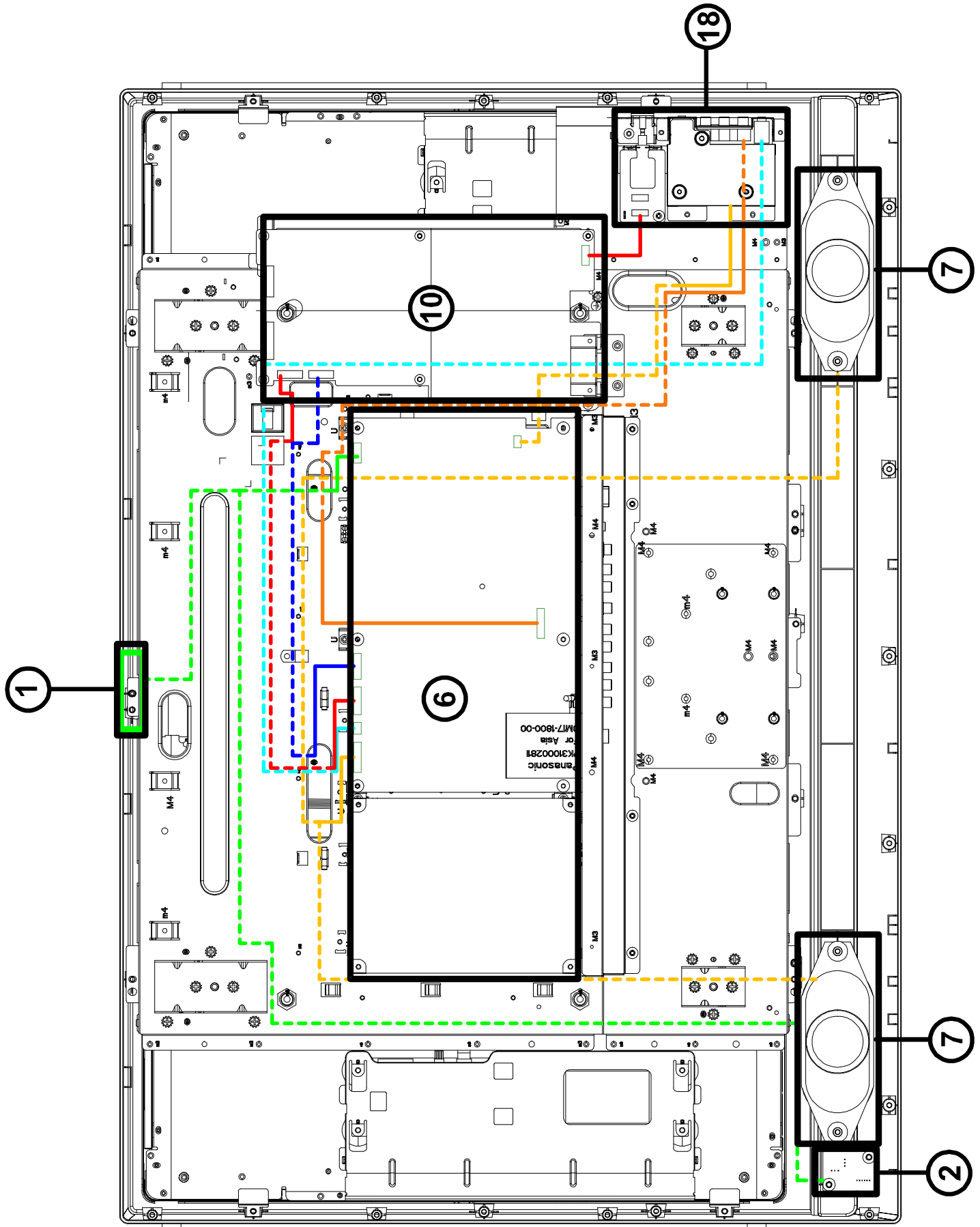


10. Wiring Diagram

L42X01A



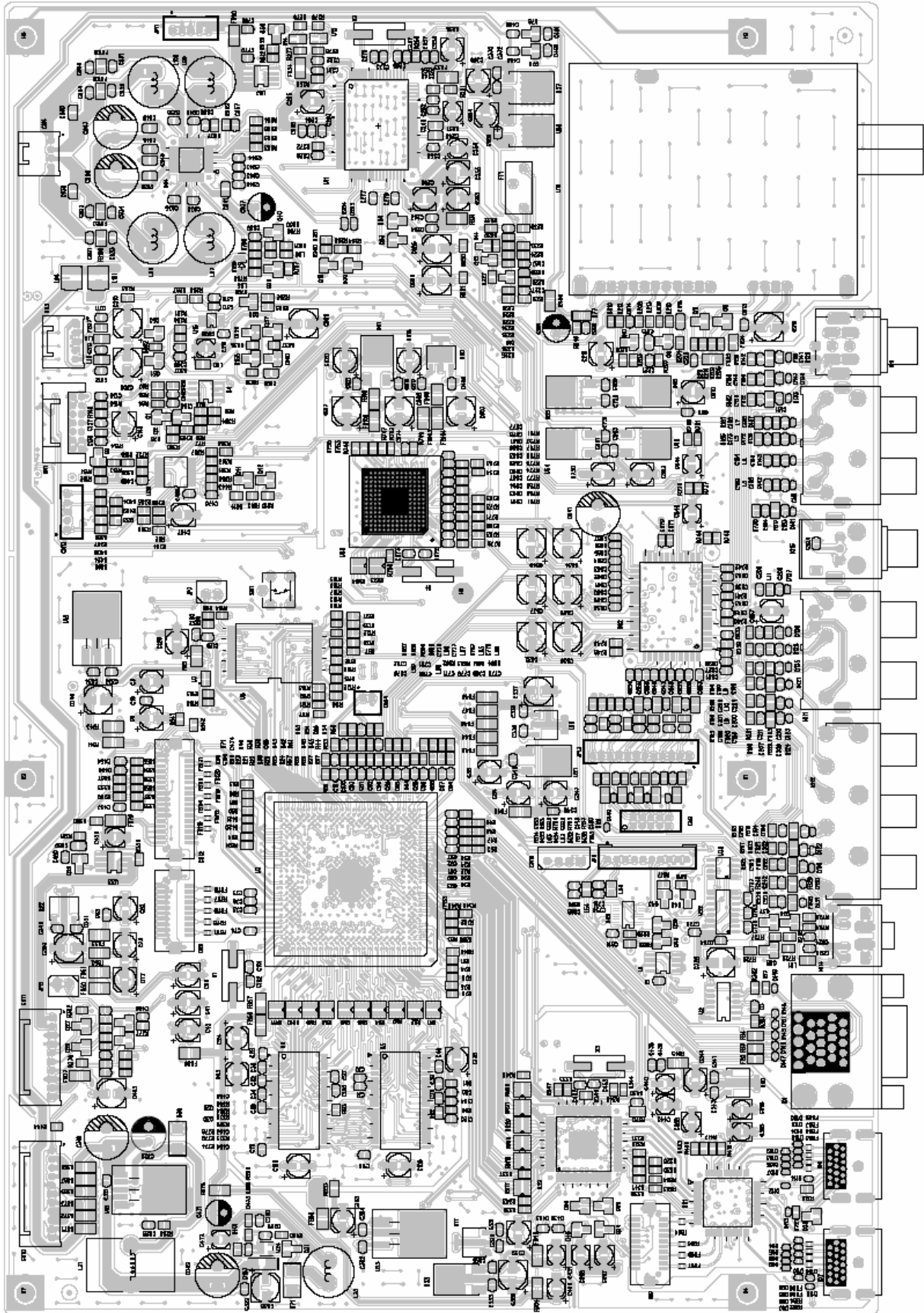
L37X01A



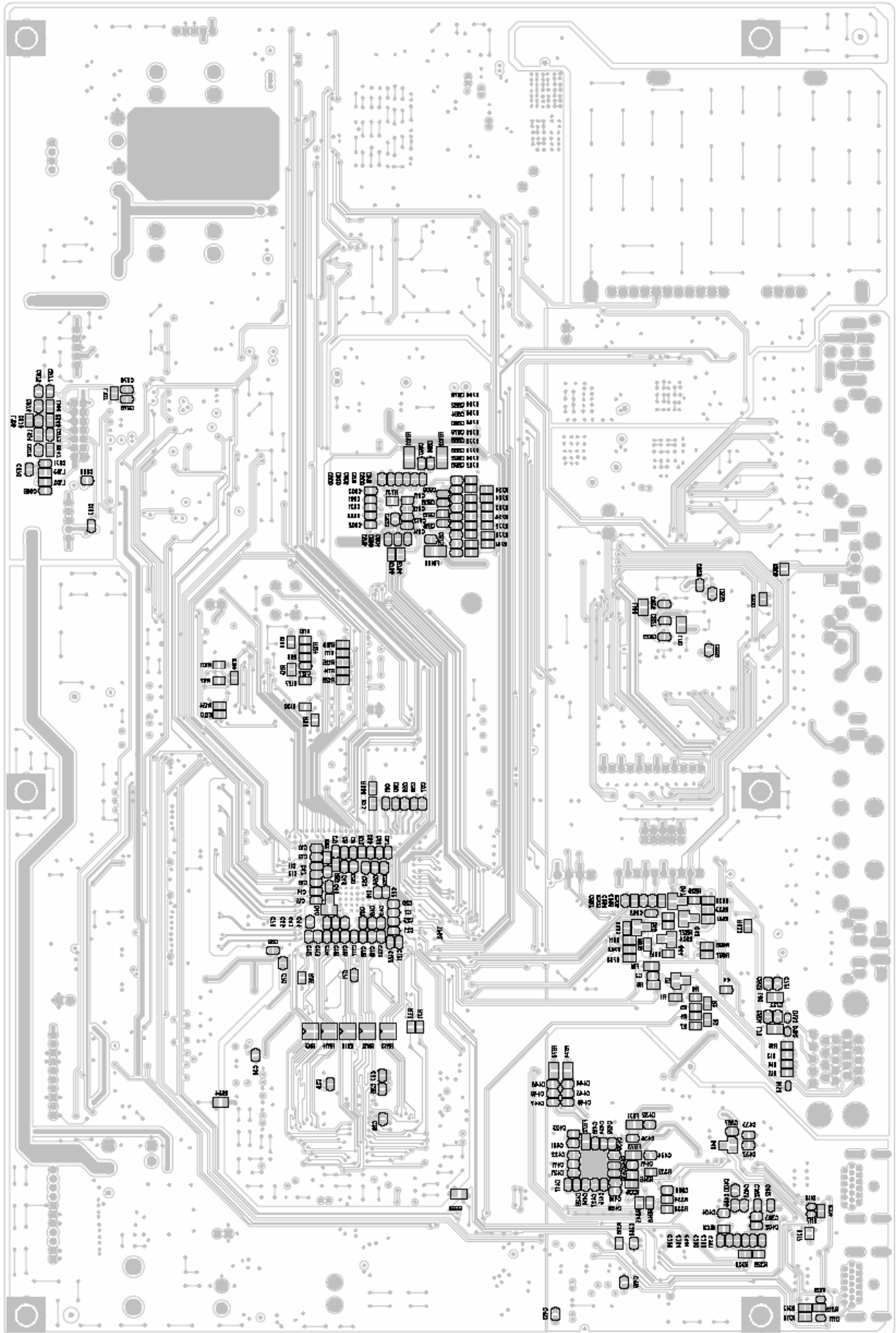
11. Printed Wiring Board Diagram

L42X01A

TOP SIDE

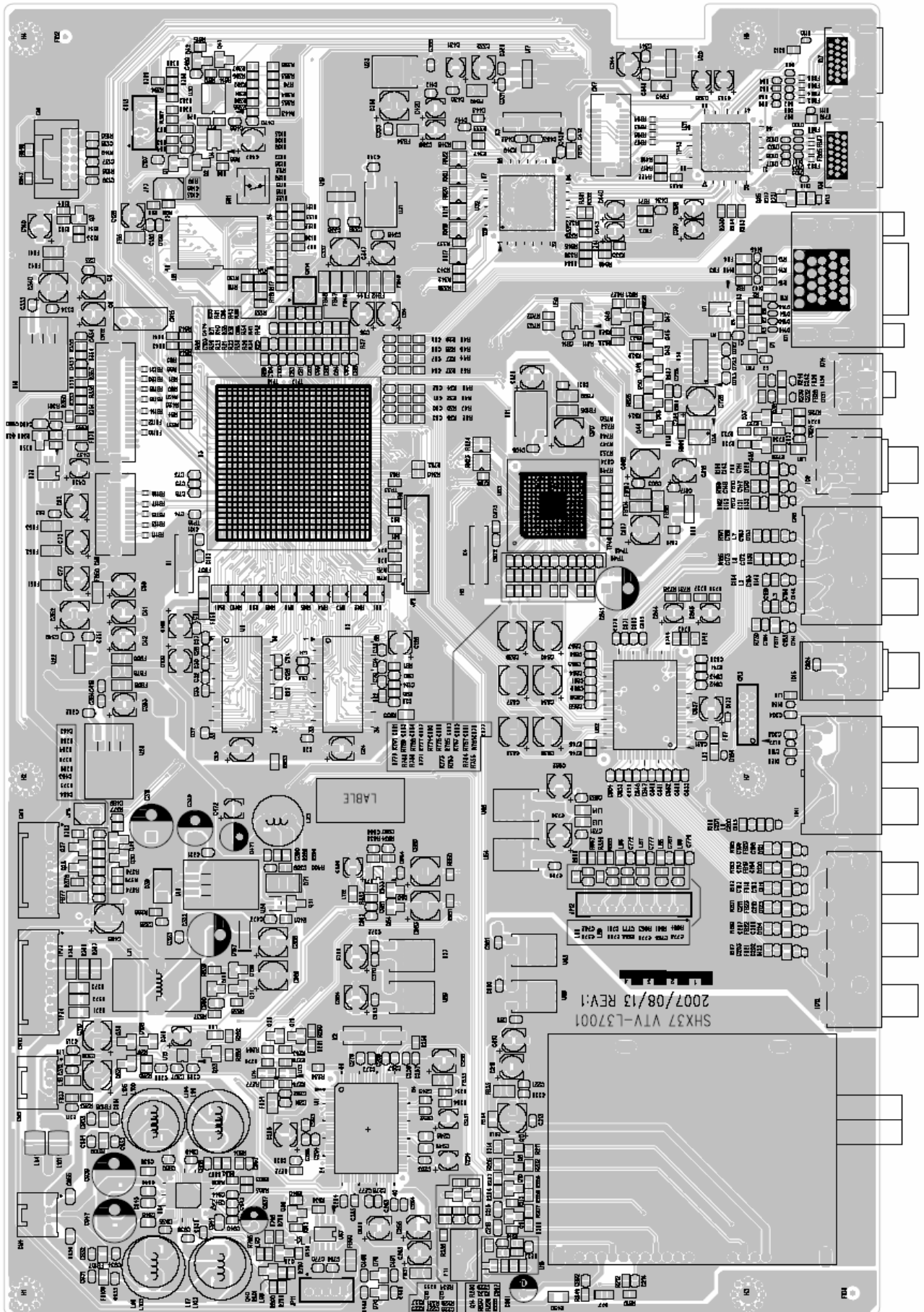


BOTTOM SIDE

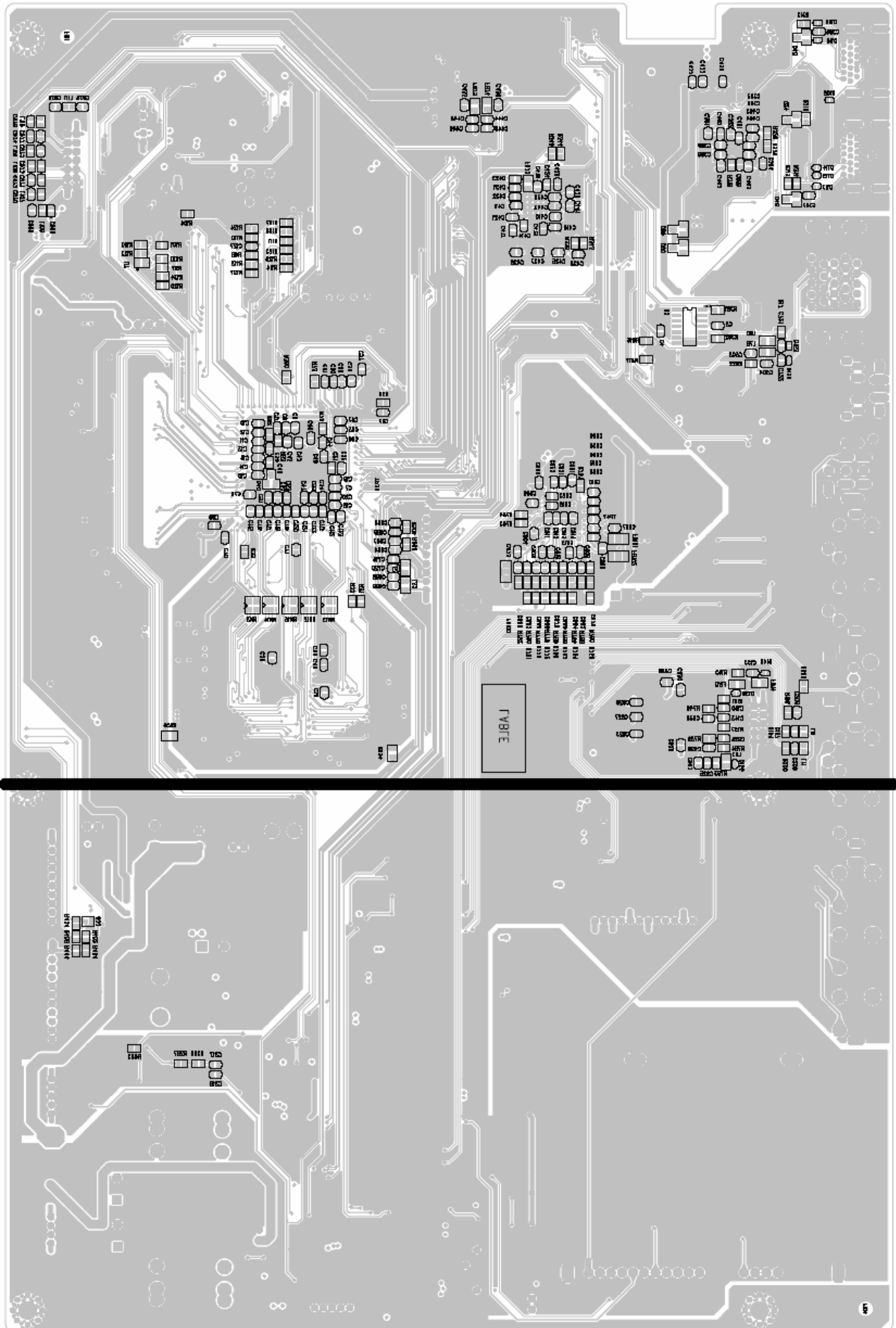


L37X01A

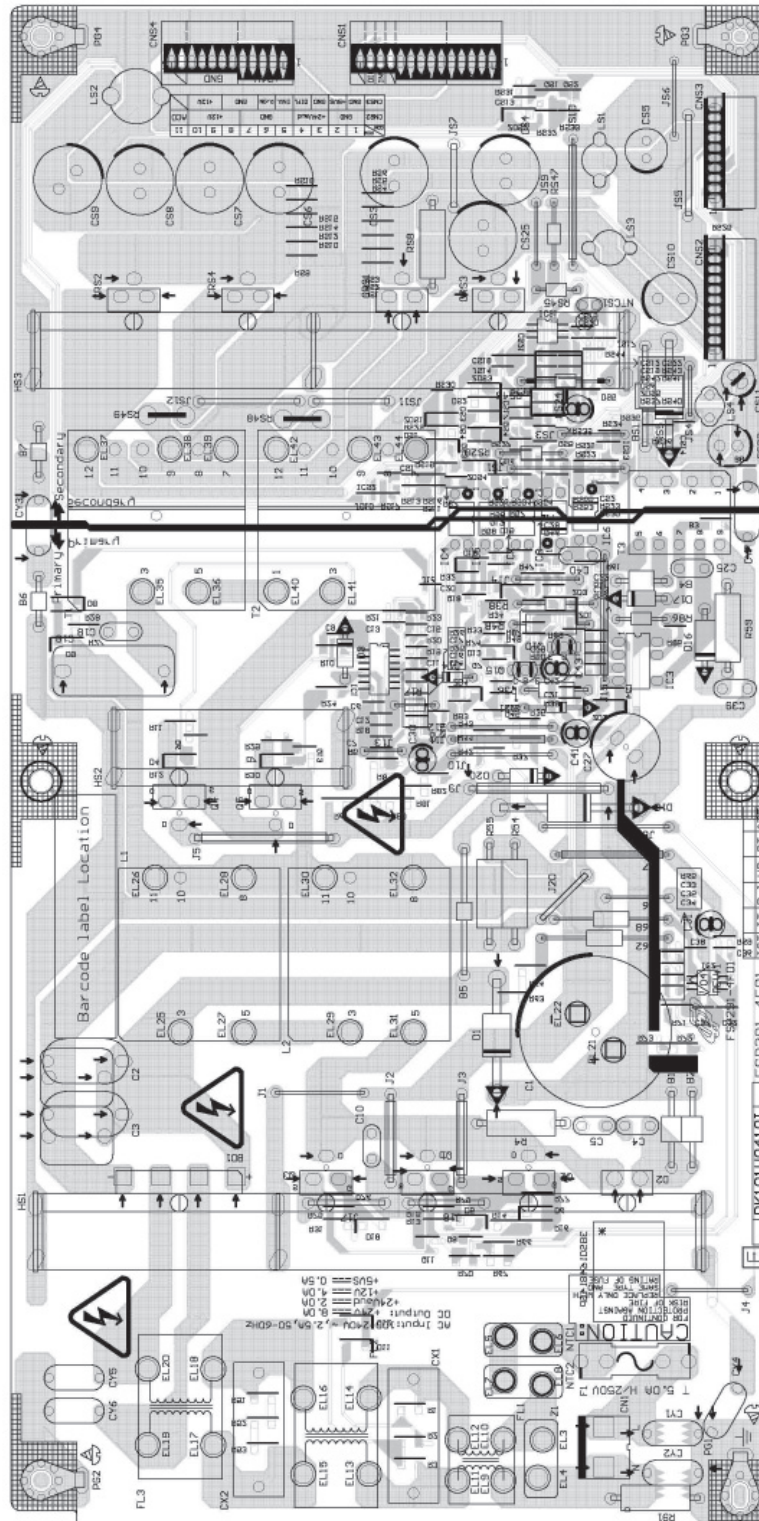
TOP



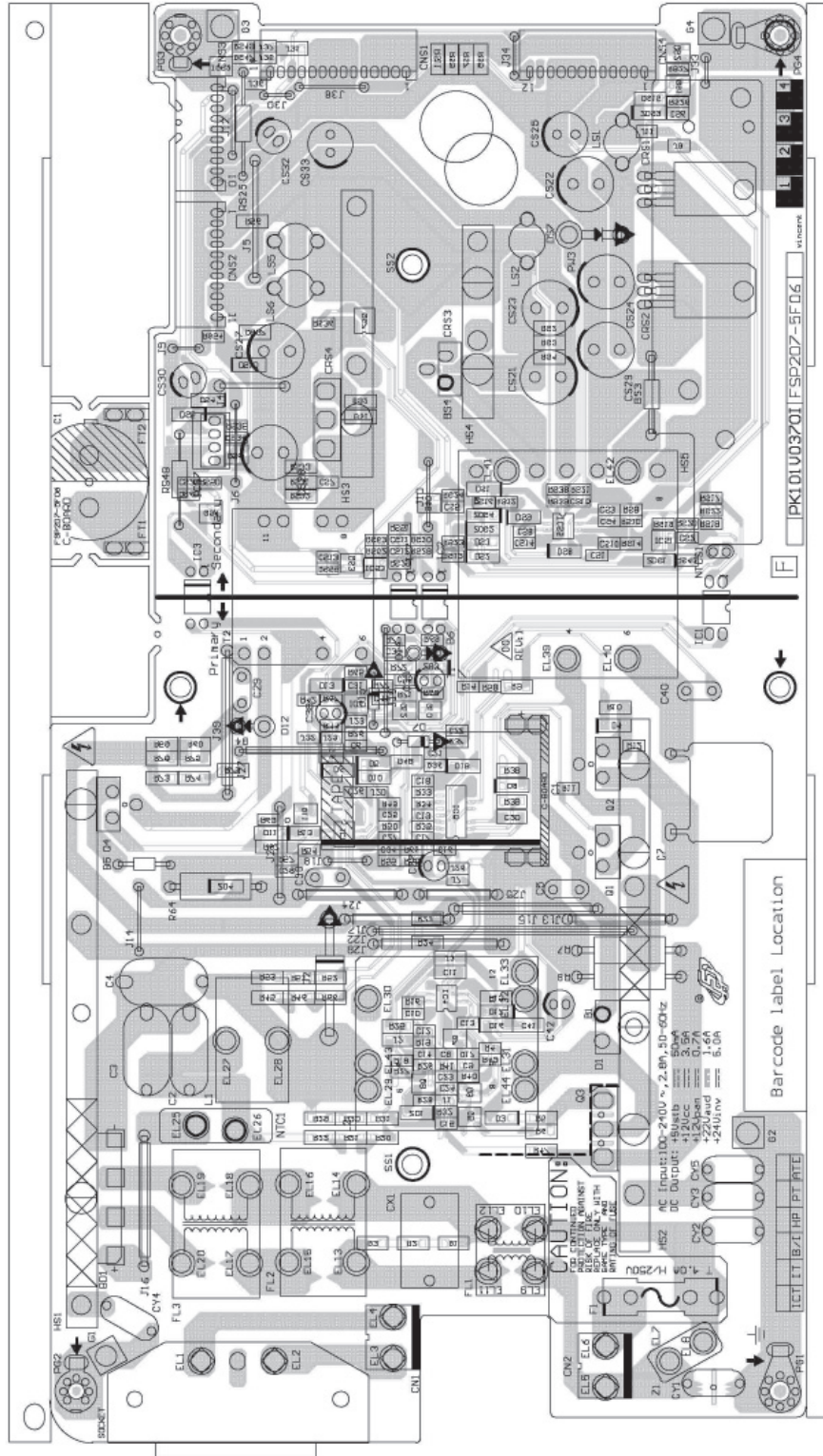
BOTTOM

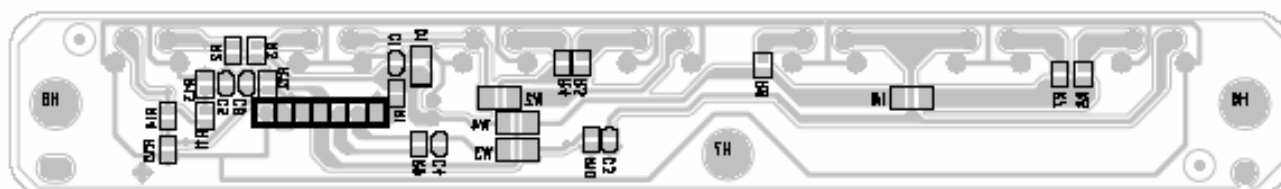
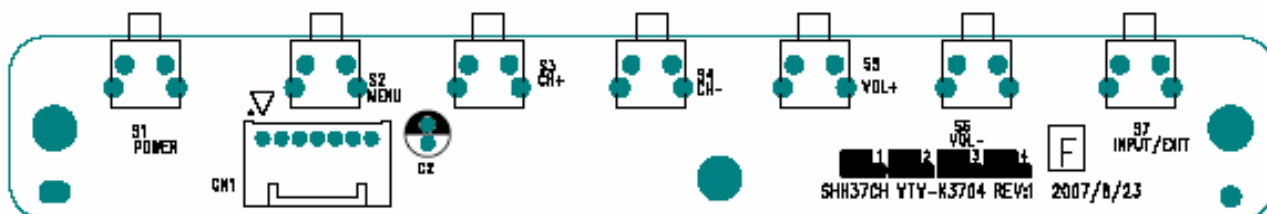
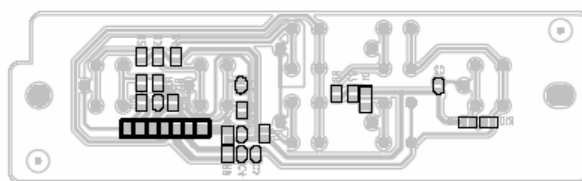
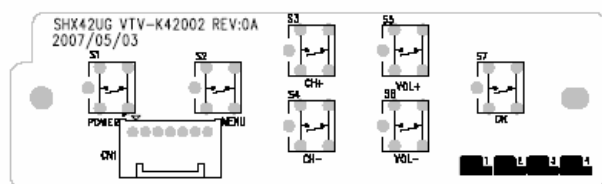


POWER MODULE [L42X01A]



POWER MODULE [L37X01A]

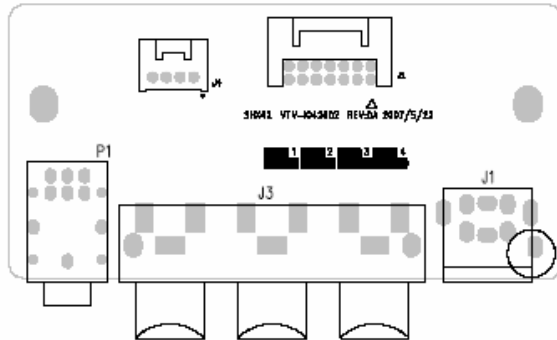




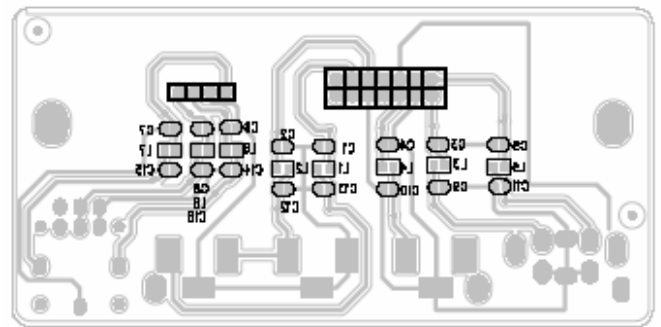
PCBA IO/B

L42X01A

TOP SIDE

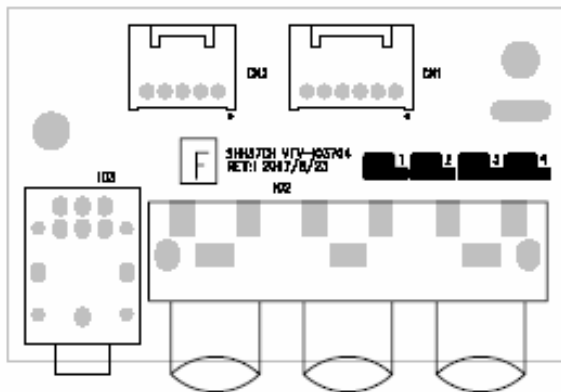


BOTTOM SIDE

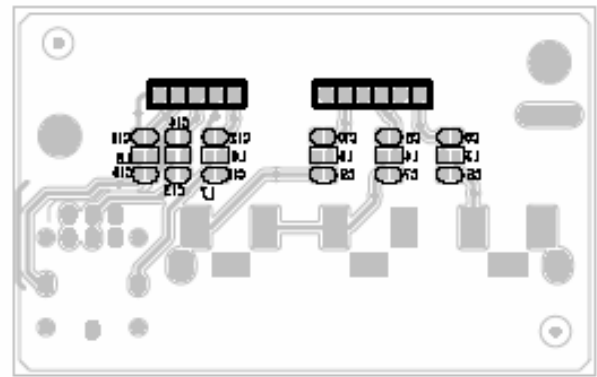


L37X01A

TOP SIDE



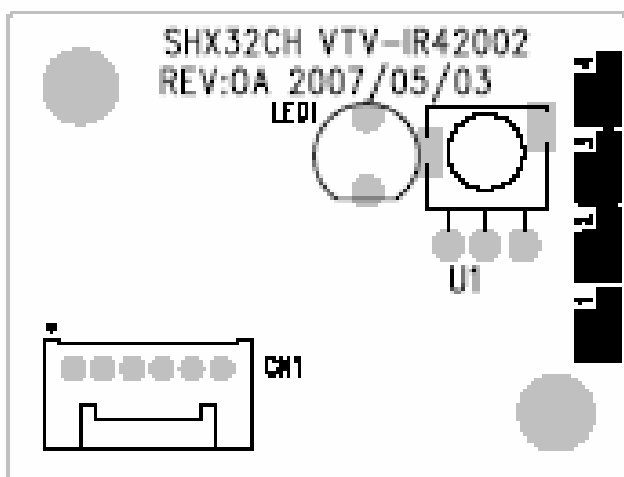
BOTTOM SIDE



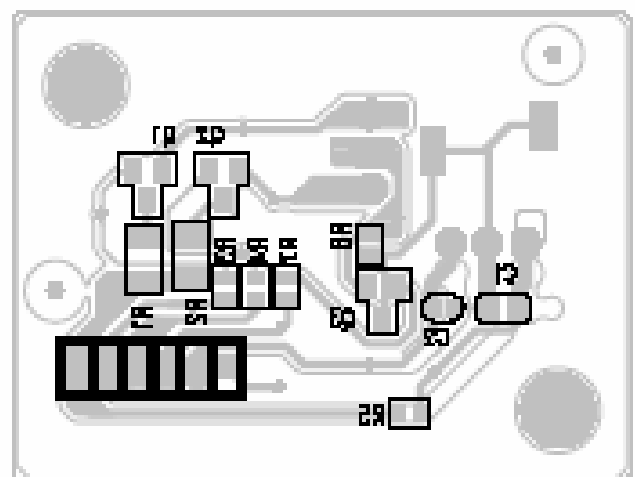
PCBA IR/B

L42X01A / L37X01A

TOP SIDE



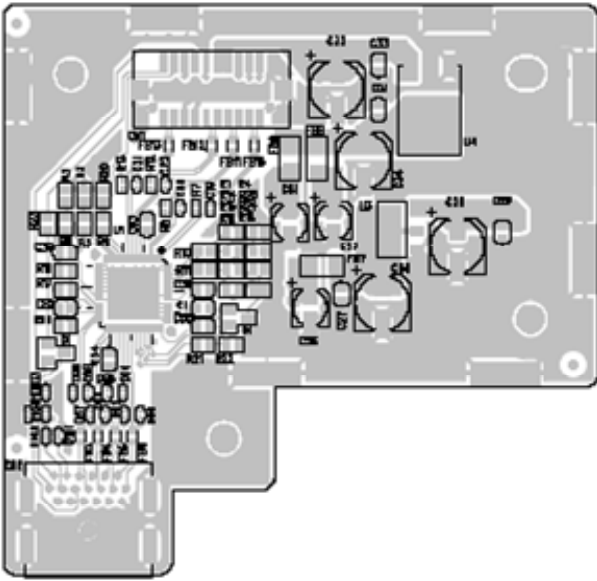
BOTTOM SIDE



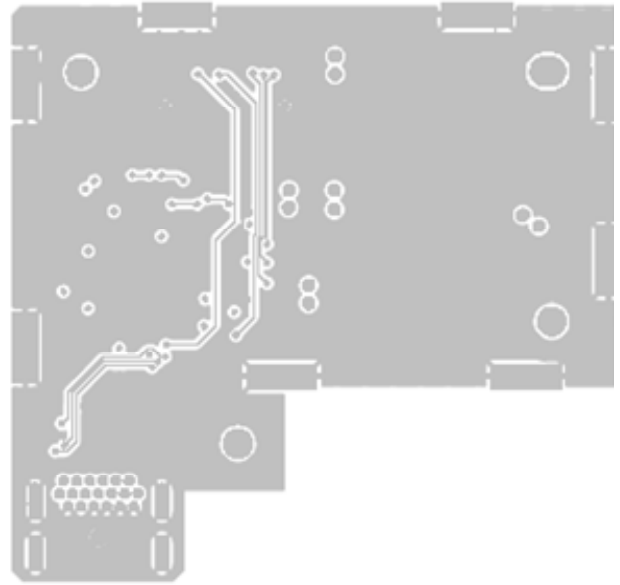
PCBA SIDE HDMI

L42X01A/ L37X01A

TOP SIDE

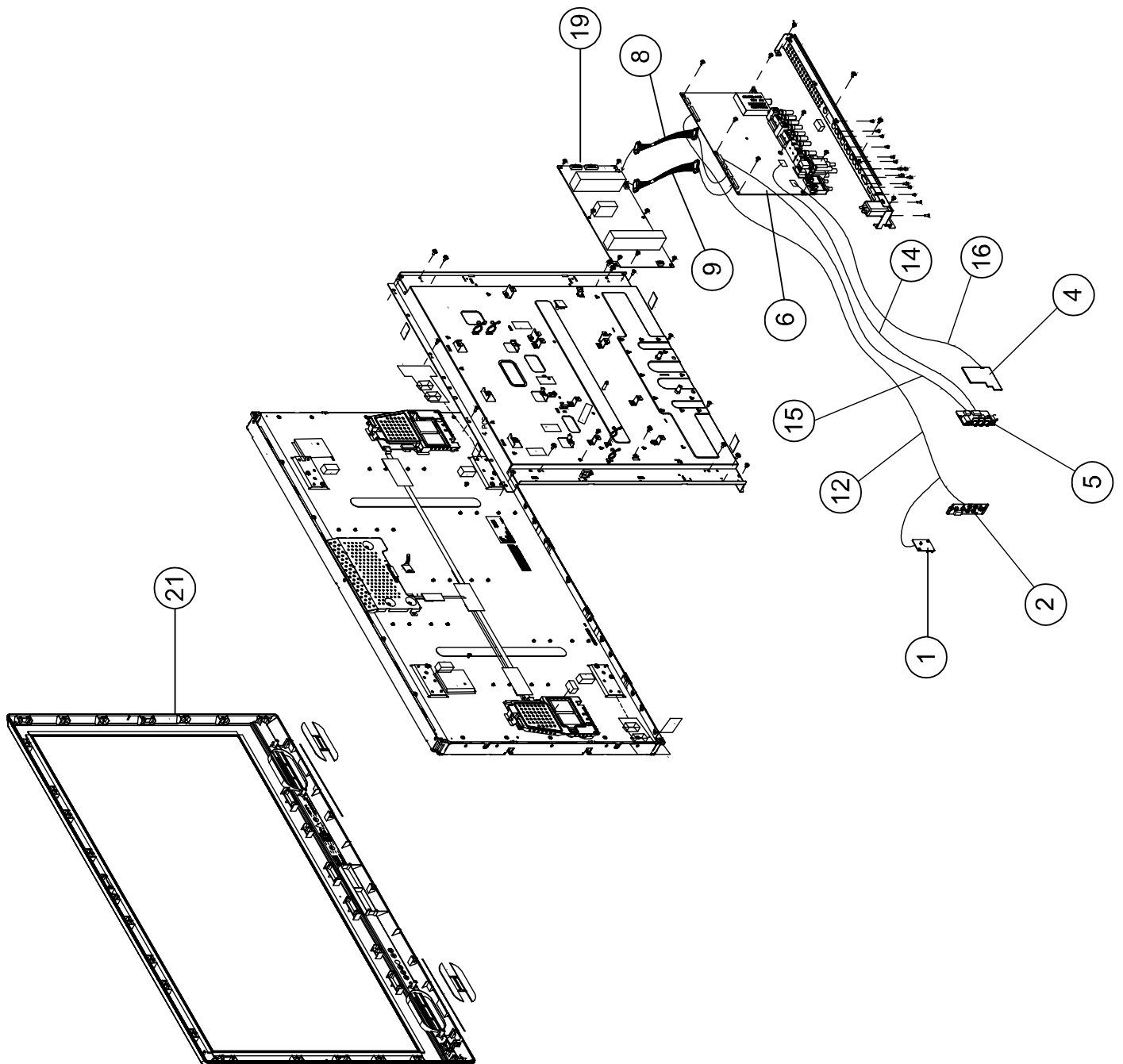


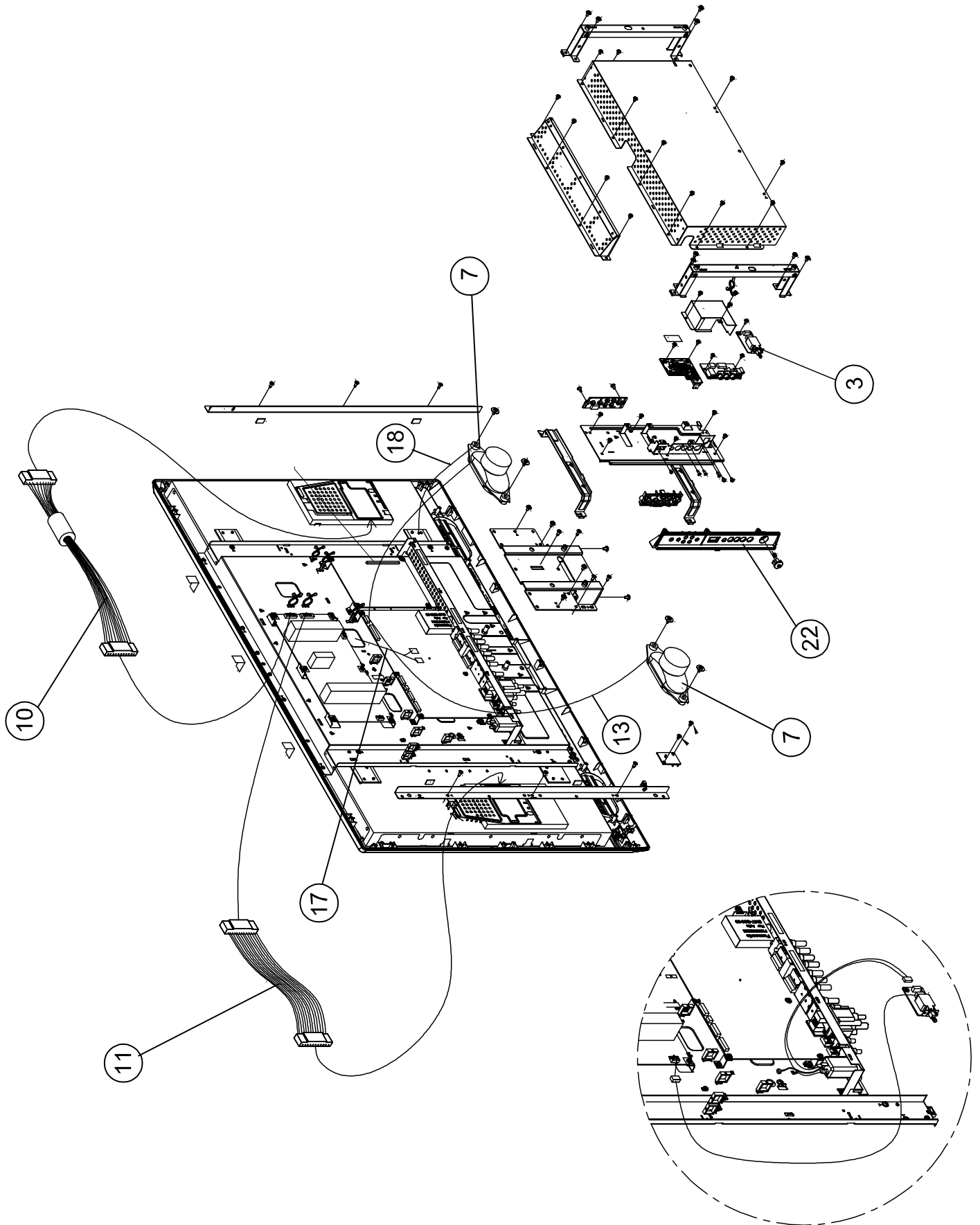
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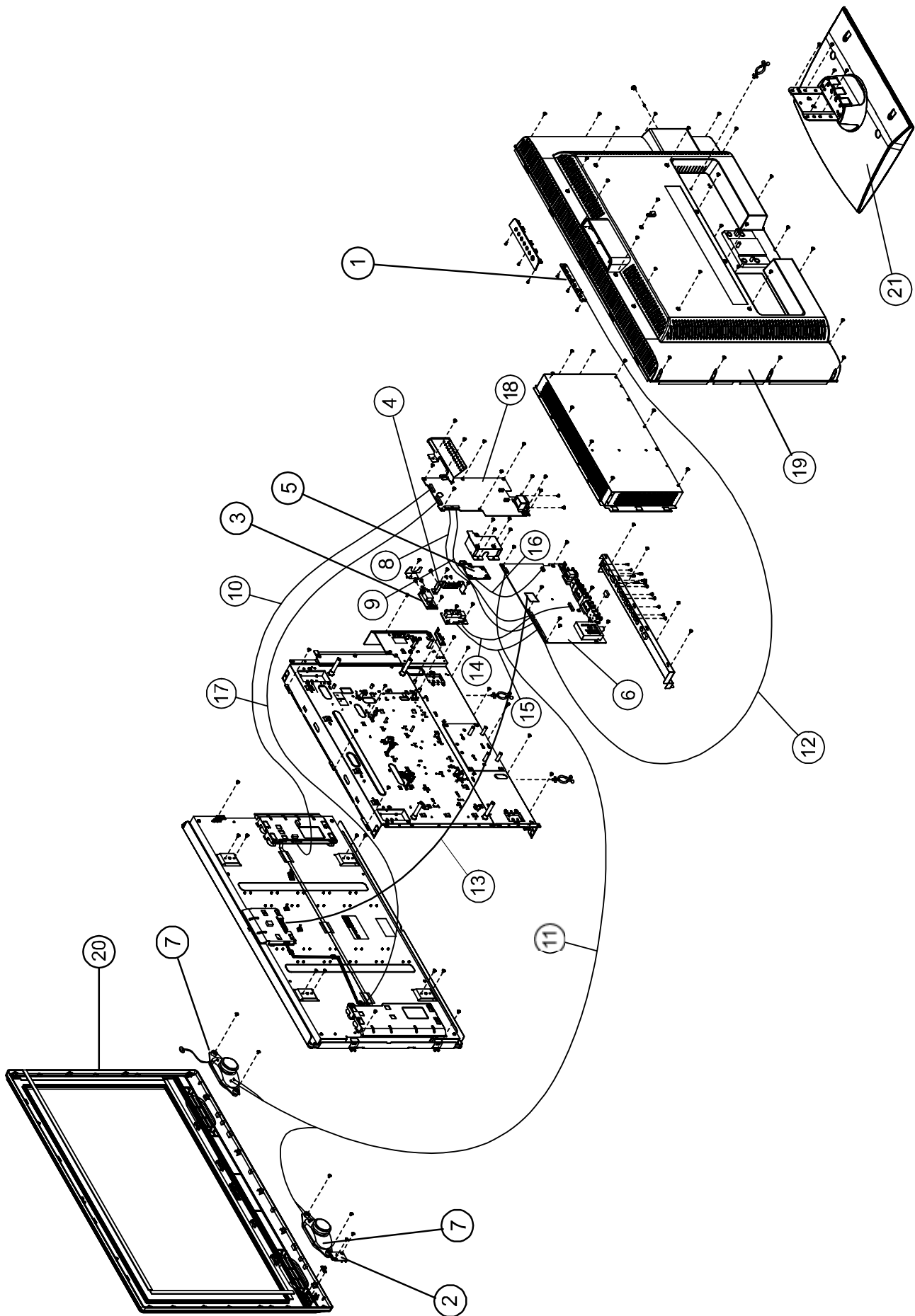
12. Disassembly Diagram

L42X01A

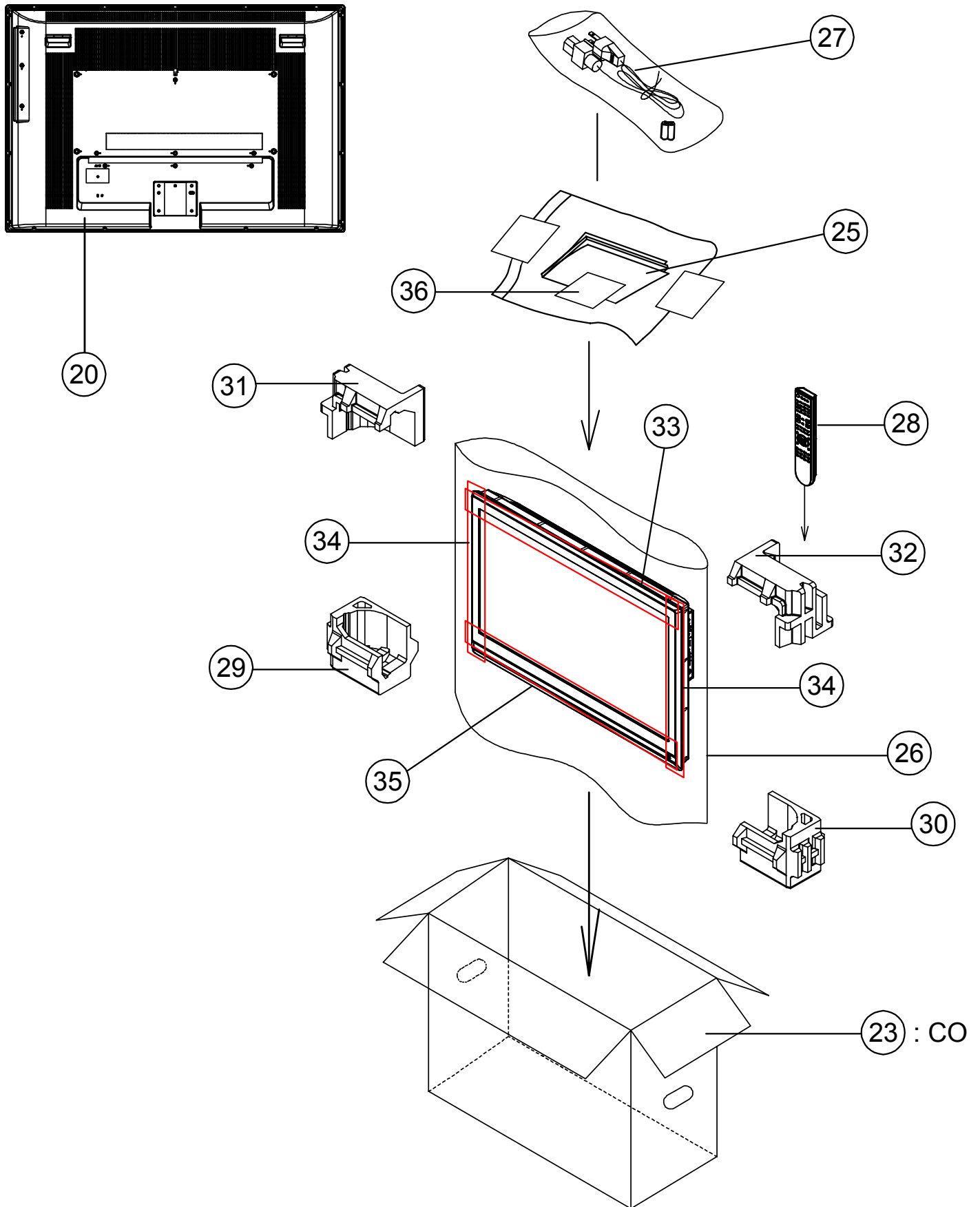




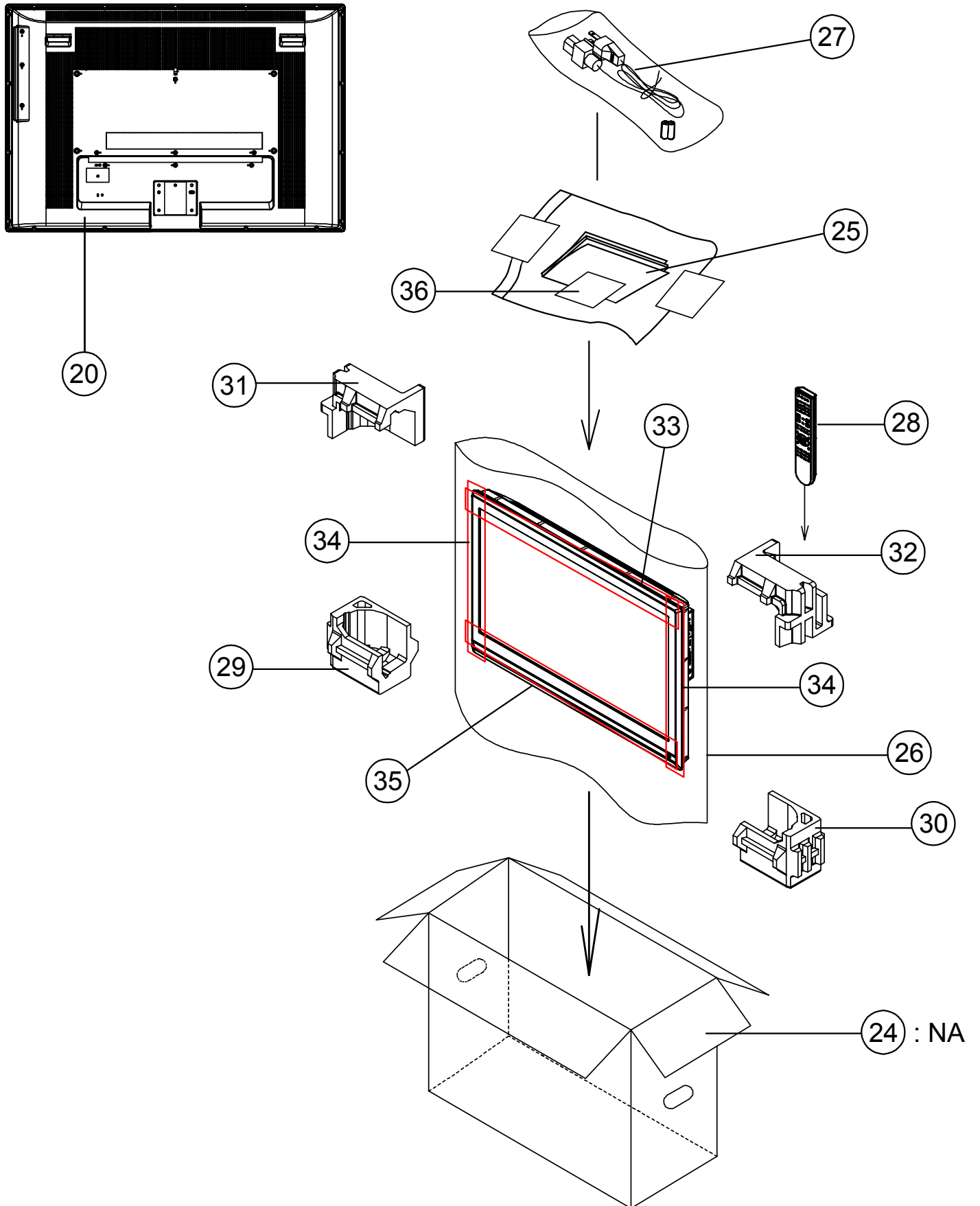
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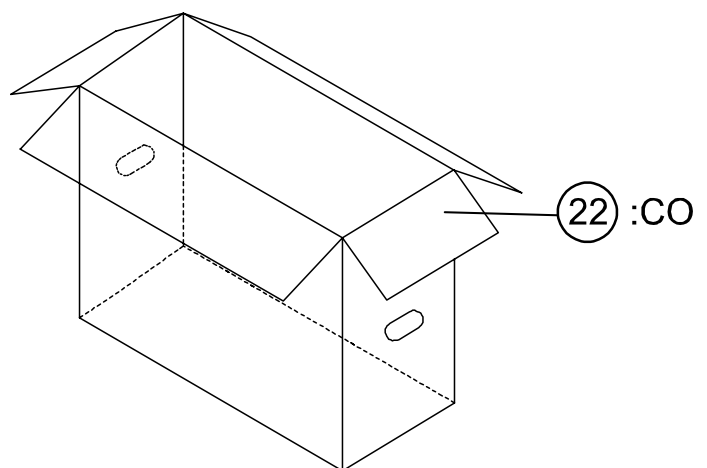
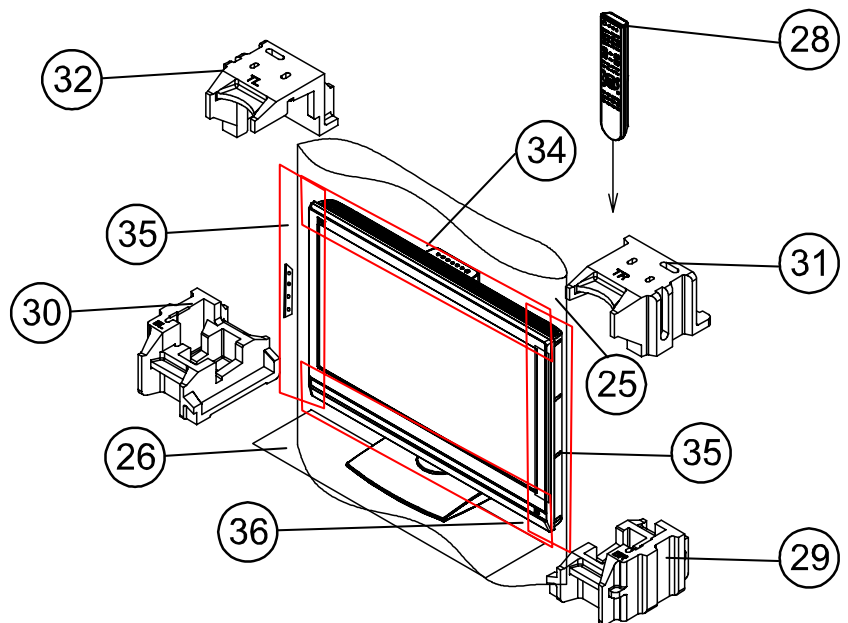
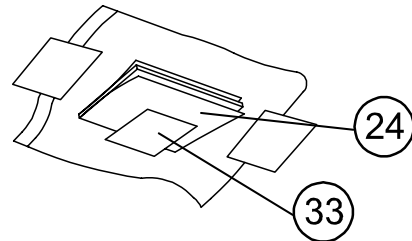
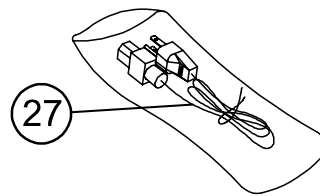
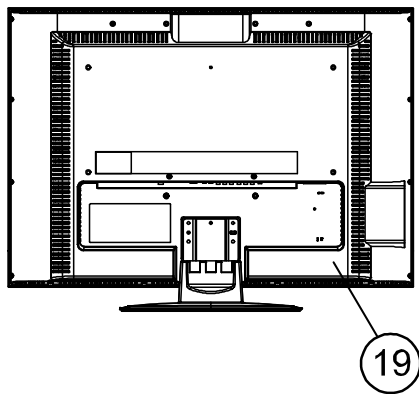
L42X01A CO



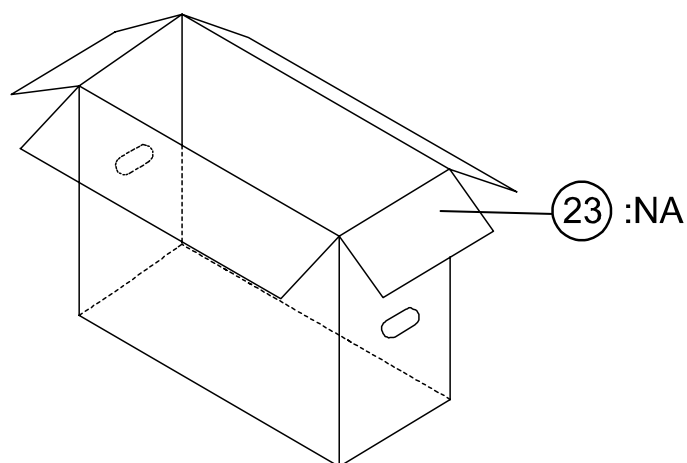
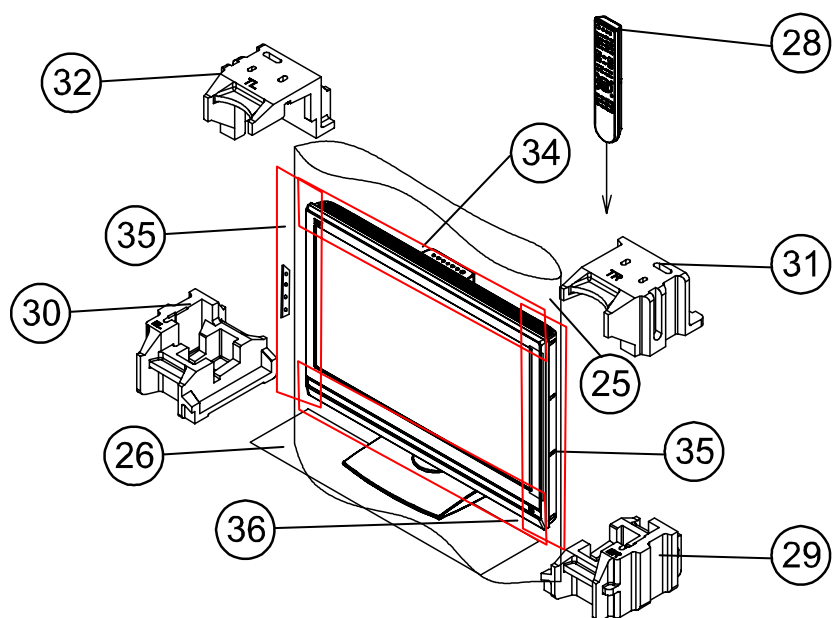
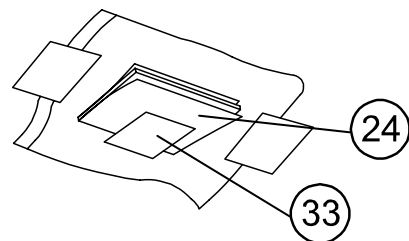
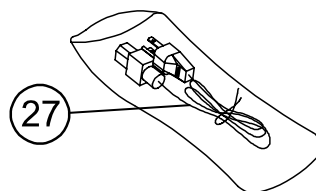
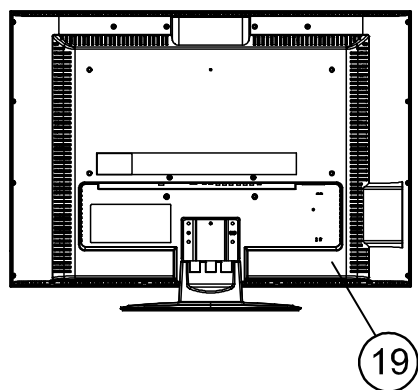
L42X01A NA



L37X01A CO



L37X01A NA



13. Replacement Parts List

L42X01A

ITEM	PART NO	DESCRIPTION	SPEC	USAGE	
				L42X01A CO	L42X01A NA
1	TE05401	PCBA IR/B	VTV-IR42002 SHX42C	1	1
2	TE05411	PCBA KEY/B	VTV-K42002 SHX42CG	1	1
3	TE05421	PCBA SWITCH/B	VTV-SW42002 SHX42	1	1
4	TE05431	PCBA HDMI/B	VTV-HDMI42002 SHX4	1	1
5	TE05441	PCBA SIDE-IO/B	VTV-IO42002 SHX42CGA	1	1
6	TE05461	FIRMWARE MAIN/B ASIA	VTV-L42002 SHX42CGA ASIA	1	1
7	TE05471	SPK SET	10W 8ohm 160X58X44mm TWO EAR	2	2
8	TE05481	H-CON SET	LV42 MB-POW 10P CNS3 LG AU	1	1
9	TE05482	H-CON SET	LV42 MB-POW 11P CNS2 LG AU	1	1
10	TE05483	H-CON SET	LV42 INV-POW 12P CNS4 LG AU	1	1
11	TE05484	H-CON SET	LV42 INV-POW 14P CNS1 LG AU	1	1
12	TE05485	H-CON SET	SHX42 MB-IRB-KB CN1-14-6-7P2	1	1
13	TE05486	H-CON SET	SHX42 MB CN4-SPK 4P2	1	1
14	TE05487	H-CON SET	SHX42 MB CN2-I/O J2 10-14P2	1	1
15	TE05488	H-CON SET	SHX42 MB CN5-I/O J4 5P2	1	1
16	TE05489	H-CON SET	SHX42 MB CN7-HDMIB CN1 20P2	1	1
17	TE05494	H-CON SET	SHX42 LVDS-PANEL 51P-34P-20P	1	1
18	TS09481	WIRE SET	W5.6X150X4.3D 1007#18 BLK	1	1
19	TE05511	POWER MODULE	FSP291-4F01 5/12/24/24V LPL SW	1	1
20	TS09501	BACK COVER	BACK COVER ASSY - L42X01A	1	1
21	TS09561	BEZEL ASSY	BEZEL ASSY MBK86/ABS94HB SN +D	1	1
22	TS09531	SIDE I/O PLATE ASY	MBK01 94V0/MCG28+M	1	1
23	TJ06171	CARTON	C-HX42C-J88-L42X01A CO	1	1
24	TJ06181	CARTON	C-HX42C-J88-L42X01A NA	1	1
25	TE05541	USER'S MANUAL	U-HX42CG-J88 ASIA E+SC+TC+RU	1	1
26	TS09531	EPE BAG(MONITOR)	HX42C-K001(MONITOR)-CHINA ROHS	1	1
27	TE04801	POWER CORD	SP60X1.8MXIS14H05/0.75BLK13AWP	1	1
28	HL02471	REMO CTRL AA	RMLCLE-993	1	1
29	TJ06201	EPS FOAM BOTTOM L	HX4216 EPS FOAM	1	1
30	TJ06202	EPS FOAM BOTTOM R	HX4217 EPS FOAM	1	1
31	TJ06203	EPS FOAM TOP L	HX4218 EPS FOAM	1	1
32	TJ06204	EPS FOAM TOP R	HX4219 EPS FOAM	1	1
33	TJ06211	DUST COVER	UP of BEZEL	1	1
34	TJ06212	DUST COVER	LEFT/RIGHT of BEZEL	1	1
35	TJ06213	DUST COVER	DOWN of BEZEL	1	1
36	TS09601	CLEAN COLTH		1	1

L37X01A

ITEM	PART NO	DESCRIPTION	SPEC	USAGE	
				L37X01A CO	L37X01A NA
1	TE05601	PCBA KEY/B	VTV-K3704 SHH37CH	1	1
2	TE05401	PCBA IR/B	VTV-IR42002 SHX42CGA	1	1
3	TE04911	PCBA SWITCH/B	VTV-SW3209 SLH37CHA	1	1
4	TE05611	PCBA IO/B	VTV-IO3704 SHH37CH	1	1
5	TE05431	PCBA HDMI/B	VTV-HDMI42002 SHX42CGA	1	1
6	TE05631	FIRMWARE MAIN/B	VTV-L37001 SHX37CHA	1	1
7	TE05471	SPK SET	10W 8ohm 160X58X44mm TWO EAR	2	2
8	TE04761	H-CON SET	DV32 JOINT-POW 11P	1	1
9	TE04762	H-CON SET	DV32 JOINT-POW 10P	1	1
10	TE04769	H-CON SET	LH37/32 INV-POW 12P	1	1
11	TE05232	H-CON SET	LH37UH MB J17-SPK 4P-TERX4	1	1
12	TE05642	H-CON SET	SHH37CH MB CN1-KE	1	1
13	TE05651	H-CON SET	SHX37 LVDS-PANEL 51P-34P-20P	1	1
14	TE05653	H-CON SET	SHX37 MB CN2-I/O J1 10-6P2	1	1
15	TE05654	H-CON SET	SHX37 MB CN5-I/O CN2 5P2	1	1
16	TE05655	H-CON SET	SHX37 MB CN7-HDMIB CN1 20P2	1	1
17	TE05646	H-CON SET	SHX37 INV-POW 14P CNS1 IPS-A	1	1
18	TE05661	POWER MODULE	FSP207-5F06 5/12/24/24VAULG SW	1	1
19	TS09621	BACK COVER	BACK COVER ASSY	1	1
20	TS09631	BEZEL ASSY	BEZEL ASSY MBK86/ABS94HB SN+D	1	1
21	TS09671	STAND ASSY	MBK01+MBK87 (70d) ABS 94HB GP	1	1
22	TJ06241	CARTON	C-HX37C-J88-L37X01A CO	1	1
23	TJ06251	CARTON	C-HX37C-J88-L37X01A NA	1	1
24	TE05541	USER'S MANUAL	U-HX42CG-J88 ASIA E+SC+TC+RU	1	1
25	TJ05931	EPE BAG(MONITOR)	LV37DG-K002 FOR MO	1	1
26	TJ05851	EPE SHEET(STAND)	LV832H-K001 L800XW 600MM	1	1
27	TE04801	POWER CORD	SP60X1.8MXIS14H05/0.75BLK13AWP	1	1
28	HL02471	REMO CTRL AA	SMK CLE-993 HIT SHX42	1	1
29	TJ06271	EPS FORM BOTTOM RIGHT	HX370H EPS FOAM(BOTTOM-RIGHT) GP	1	1
30	TJ06272	EPS FORM BOTTOM LEFT	HX370I EPS FOAM(BOTTOM-LEFT) GP	1	1
31	TJ06273	EPS FORM TOP RIGHT	HX370J EPS FOAM(TOP-RIGHT)	1	1
32	TJ06274	EPS FORM TOP LEFT	HX370G EPS FOAM(TOP LEFT)GP	1	1
33	TS09601	CLEAN CLOTH		1	1
34	TJ06281	DUST COVER	UP of BEZEL	1	1
35	TJ06282	DUST COVER	LEFT/RIGHT of BEZEL		
36	TJ06283	DUST COVER	DOWN of BEZEL	1	1