

Service Manual

LED TV



Model No. TH-L32B6R

Chassis: KM21

Destination: IRAN

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.
4. When conducting repairs and servicing, do not attempt to modify the equipment, its parts or its materials.
5. When wiring units (with cables, flexible cables or lead wires) are supplied as repair parts and only one wire or some of the wires have been broken or disconnected, do not attempt to repair or re-wire the units. Replace the entire wiring unit instead.
6. When conducting repairs and servicing, do not twist the Faston connectors but plug them straight in or unplug them straight out.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 100 Mohm and over. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kohm, 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

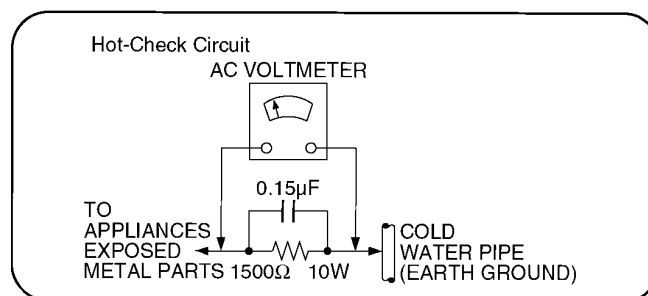


Figure 1

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor [chip] components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as [anti-static (ESD protected)] can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise ham less motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

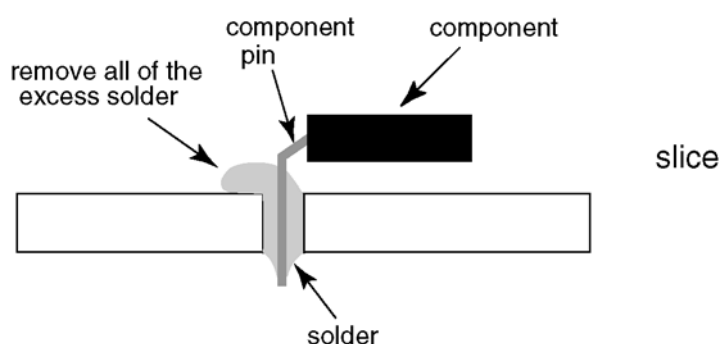
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol **PbF** stamped on the back of PCB.

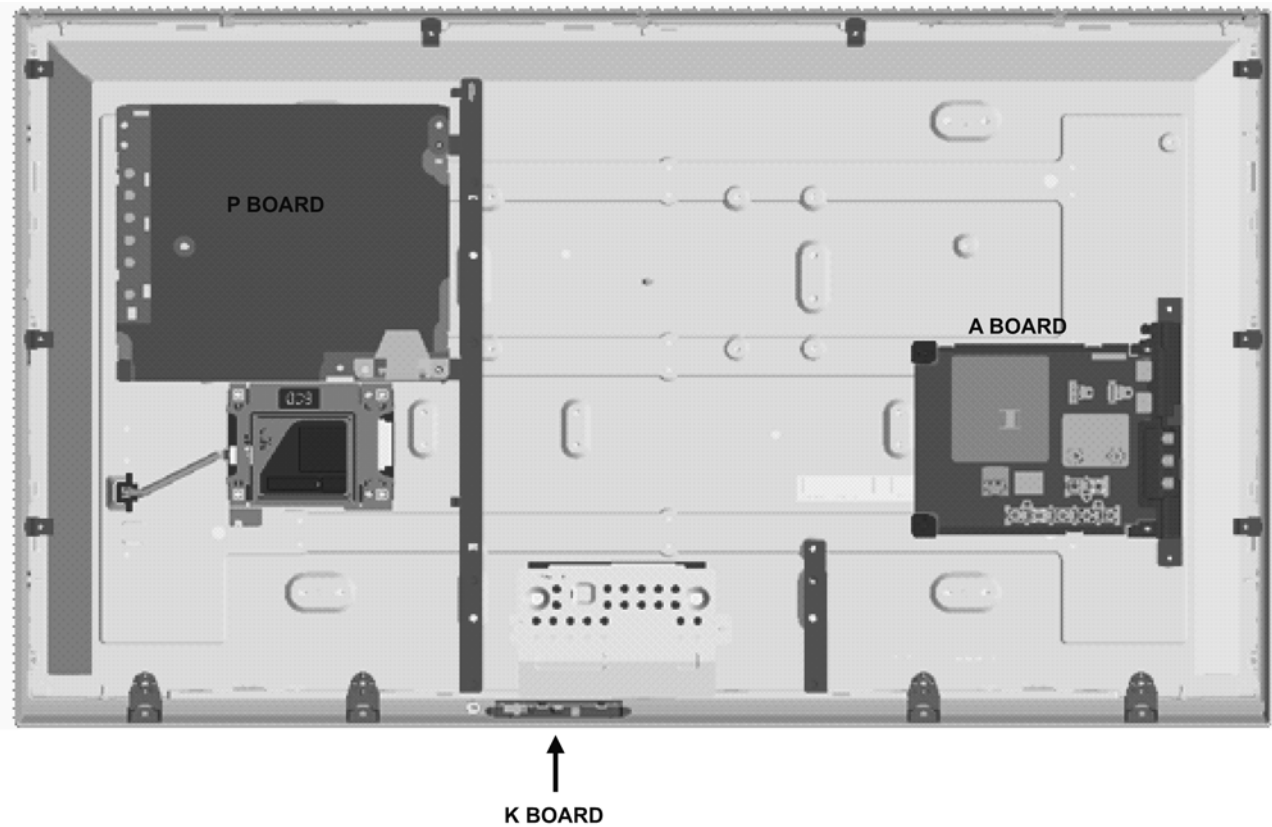
Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



3 Service Navigation

3.1. Service Hint



Board Name	Main Device	Remarks
A BOARD	TUN, OFDM, ADV, LD4, STBY EEP	Repairable
P BOARD	Power Supply (For 32" include function SW)	Repairable
K BOARD	LED/RM/CATS	Repairable

4 Specifications

Power Source	AC 220 - 240 V, 50/60 Hz		
Power			
Rating	64 W		
Standby power consumption	0.3 W		
Display Panel			
Panel	TFT LCD Module with LED Backlight		
Visible screen size (diagonal)	80 cm (32 inches)		
Display Resolution	1,049,088 × (1,366 (W) × 768 (H))		
Sound			
Speaker	(90 mm × 25 mm) × 2 pcs, 8 Ω		
Audio output	10 W (5 W + 5 W), 10% THD		
Receiving Systems / Band name	17 SYSTEMS		FUNCTION
	1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders
	2	PAL I	
	3	PAL D, K	
	4	SECAM B, G	
	5	SECAM D, K	
	6	SECAM K1	
	7	NTSC M (NTSC 3.58 / 4.5 MHz)	
	8	NTSC 4.43 / 5.5 MHz	Playback from Special VCR's or DVD
	9	NTSC 4.43 / 6.0 MHz	
	10	NTSC 4.43 / 6.5 MHz	
	11	NTSC 3.58 / 5.5 MHz	
	12	NTSC 3.58 / 6.0 MHz	
	13	NTSC 3.58 / 6.5 MHz	
	14	SECAM I	
	15	PAL 60 Hz / 5.5 MHz	Playback from Special Disc Players and Special VCR's or DVD
	16	PAL 60 Hz / 6.0 MHz	
	17	PAL 60 Hz / 6.5 MHz	
Receiving Channels (Analogue TV)			
VHF BAND	2 - 12 (PAL / SECAM B, K1) 0 - 12 (PAL B AUST.) 1 - 9 (PAL B N.Z.) 1 - 12 (PAL / SECAM D) 1 - 12 (NTSC M Japan) 2 - 13 (NTSC M USA)		
UHF BAND	21 - 69 (PAL G, H, I / SECAM G, K, K1) 28 - 69 (PAL B AUST.) 13 - 57 (PAL D, K) 13 - 62 (NTSC M Japan) 14 - 69 (NTSC M USA)		
CATV	S1 - S20 (OSCAR) 1 - 125 (USA CATV) C13 - C49 (JAPAN) S21 - S41 (HYPER) Z1 - Z37 (CHINA) 5A, 9A (AUST.)		
Aerial input	VHF / UHF		
Operating Conditions			
	Temperature : 0°C - 40°C		
	Humidity : 20 % - 80 % RH (non-condensing)		
Dimensions (W × H × D)			
With Pedestal (mm)	741 × 515 × 184		
TV only (mm)	741 × 450 × 78		
Mass (Net)			
With Pedestal (kg)	7		
TV only (kg)	6		
Connection Terminals			
AV1 IN	AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]
	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
	COMPONENT	Y	1.0 V [p-p] (including synchronization)
		P _B /C _B , P _R /C _R	±0.35 V [p-p]
AV2 IN	AUDIO L - R	RCA PIN Type × 2	0.5 V [rms]
	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
AUDIO OUT	AUDIO L - R	RCA PIN Type × 2	0.5 V [rms]

TH-L32B6R

DIGITAL AUDIO OUT

HDMI AV IN

USB

PCM / Dolby Digital / DTS, Fibre optic

TYPE A Connectors × 2

USB 2.0 TYPE A Connectors × 1

DC 5 V, Max. 500 mA

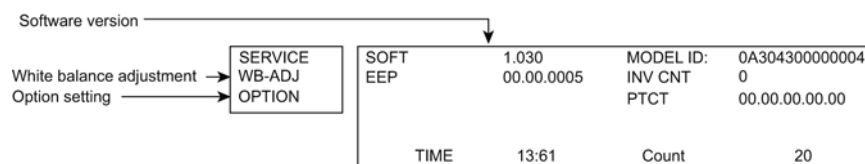
Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

5 Service Mode

5.1. How to enter into Service Modes

While pressing [VOLUME (-)] button of the main unit, press [INFO] button of the remote control three times within 2 seconds.



5.1.1. Contents of adjustment mode

- Value is shown as a hexadecimal number.
- Preset value differs depending on models.
- After entering the adjustment mode, take note of the value in each item before starting adjustment.

Main item	Sub item	Sample Data
ADJUST	CONTRAST	
	COLOUR	
	TINT	
	SUB-BRT	
	BACKLGT	
	H POS	
	H AMP	
	V POS	
	V AMP	
	A COM	
WB-ADJ	R-GAIN	8D
	G-GAIN	AE
	B-GAIN	FF
	R-CENT	6C
	G-RENT	80
	B-CENT	A0
OPTION	Boot	ROM
	STBY-SET	00
	EMERGENCY	ON
	CLK MODE	00
	CLOCK	FC7
	Y/C DELAY	DYNAMIC
	OPT 1	00000000
	OPT 2	11100110
	OPT 3	00001001
	OPT 4	00000000
	EDID-CLK	HIGH
SRV-TOOL		00
DRV CHECK		DYNAMIC

5.1.2. How to exit

Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

5.1.3. Display of SOS History

SOS History (Number of LED blinking) indication.

From left side; Last SOS, before Last, three occurrence before, 2nd occurrence after shipment, 1st occurrence after shipment.

This indication except 2nd and 1st occurrence after shipment will be cleared by [Self-check indication and forced to factory shipment setting].

5.1.4. POWER ON TIME/COUNT

Note : To display TIME/COUNT menu, highlight position, then press MUTE for 3sec.

Time : Cumulative power on time, indicated hour : minute by decimal

Count : Number of ON times by decimal

Note : This indication will not be cleared by either of the self-checks or any other command.

5.1.5. Exit

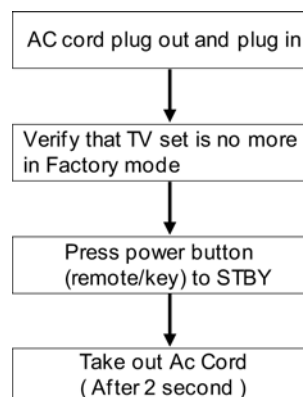
1. Disconnect the AC cord from wall outlet.

5.1.6. Self Check Mode

1. Press the 'MENU' button (on the remote control) and the 'VOL DOWN' button on the LCD panel.
2. Press ON/OFF button on the panel to Exit.

TUN	OK	SOFT Ver.	0.130
MEM	OK	EEP Ver.	00.00.0005
IO EXPO	OK	MODEL ID:	0A304300000004

NOTE: After self check, the following process need to follow.



5.1.7. Hotel Mode Adjustment

1. Press the 'VOLUME DOWN' button on the TV panel and simultaneously press the INPUT button on the remote control 3 times to enter Hotel Mode.
2. Set Hotel mode 'on/off', then press 'EXIT' to come out.

5.1.8. Hotel Mode

1. Purpose
Restrict a function for hotels.
2. Access command to the Hotel mode setup menu.
In order to display the Hotel mode setup menu, please enter the following command **(within 2 second)**.
[TV] : Vol [Down] + [REMOTE] : INPUT (3 times).

Then, the Hotel mode setup menu is displayed.

Hotel Mode	
Hotel Mode	◀ Off ▶
Initial INPUT	Off
Initial POS	Off
Initial VOL Level	Off
Maximum Vol Level	████████████████████
Button Lock	Off
Remote Lock	Off
Copy TV to USB	
Copy USB to TV	

Select
 ○ EXIT
 ○ Change
 ○ RETURN

3. To exit the Hotel mode setup menu
Disconnect AC power cord from wall outlet.
4. Explain the Hotel mode setup menu

Item	Function
Mode	Select hotel mode off/on
Initial Input	Select input signal modes. Set the input, when each time power is switched on. Selection : -/RF/HDMI1/HDMI2/HDMI3/Component/Video/PC • Off: give priority to a last memory.
Initial POS	Select channel when input signal is RF. Set the channel, each time power is switched on. Selection : Any channel number or [-]. [-] means the channel when turns off.
Initial LEVEL	Adjust the volume when each time power is switched on. Range : 0 to 100
Maximum Vol LEVEL	Adjust maximum volume. Range : 0 to 100
Button Lock	Restrict the OSD. Selection : OFF/PATTERN1 • OFF: No restriction • PATTERN1: restriction
Remote Lock	Select front key conditions. Selection : OFF/PATTERN1/ALL • OFF: altogether valid. • PATTERN1: only input key is valid. • ALL: altogether invalid.

6 Troubleshooting Guide

Use the self-check function to test the unit.

1. Checking the IIC bus lines
2. Power LED Blinking timing

6.1. Check of the IIC bus lines

6.1.1. How to access

Self-check indication only:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [OK] button on the remote control for more than 3 seconds.

Self-check indication and forced to factory shipment setting:

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

6.1.2. Exit

Disconnect the AC cord from wall outlet.

6.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality occurs, the protection circuit will operate and reset the unit to stand by mode. During this time, the defective block can be identified by the number of blinking times of the Power LED on the front panel of the unit as follow:

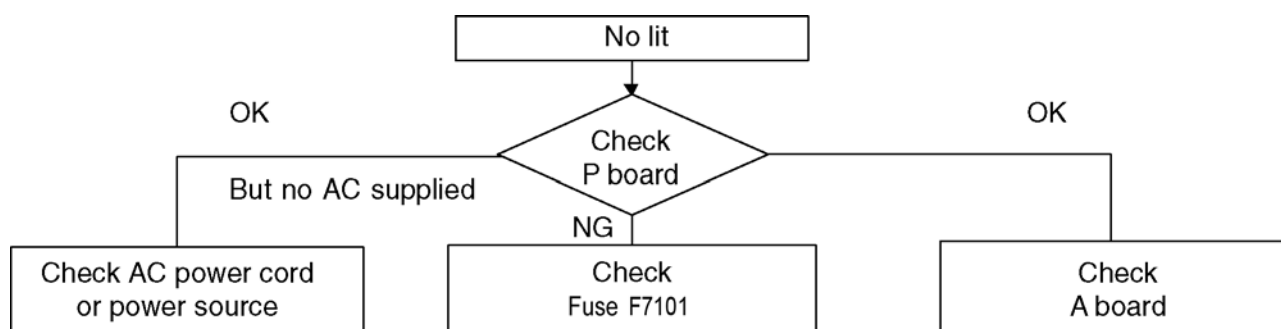
Priority	SOS detection	LED Blink
1	BL_SOS	1
2	SUB_3.3V	7
3	SOUND_SOS	9
4	OVP SOS	8
5	GCX/FRC_SOS	10
6	BE(sLD8/PRO4) SOS	12
7	Emergency SOS	13
8	IROM-SOS	3

6.3. No Power

First check point

There are following 2 states of No Power indication by power LED.

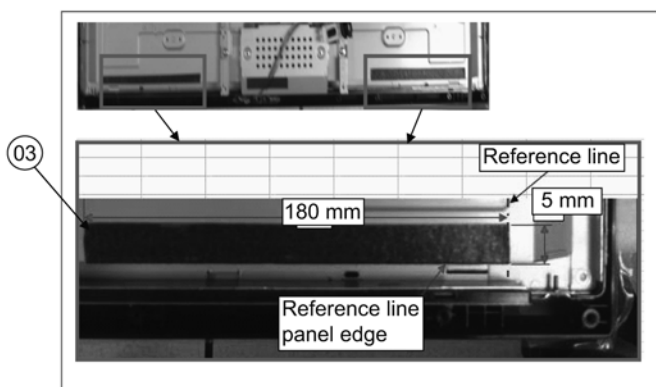
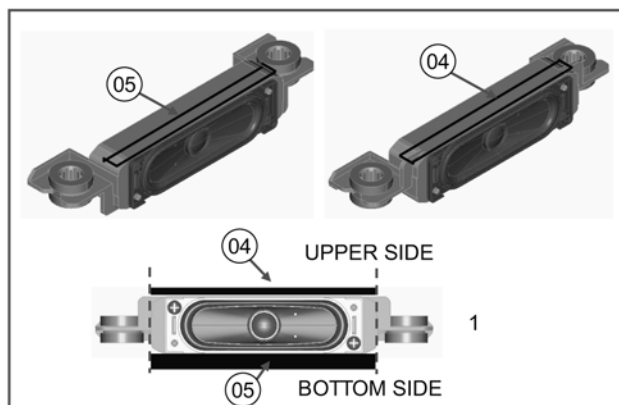
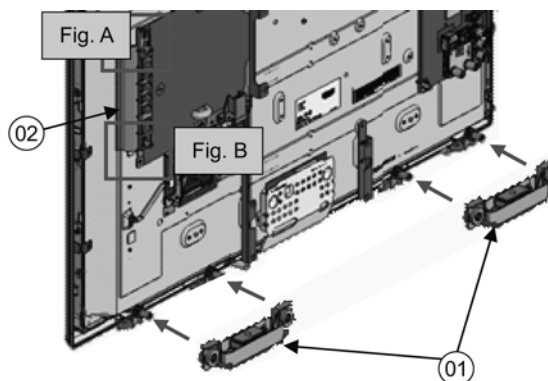
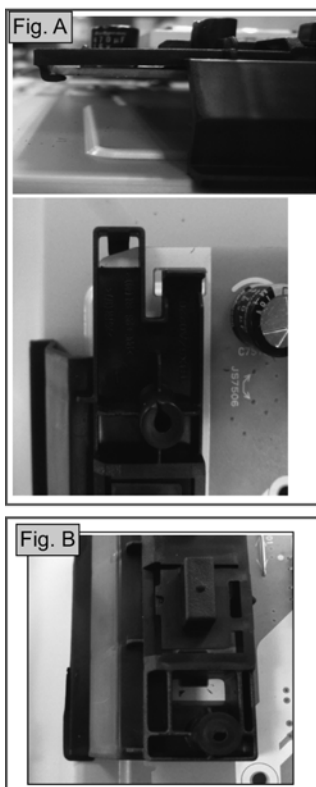
1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 6.2.)



7 Disassembly and Assembly Instructions

7.1. SP Bracket & Metal Bottom

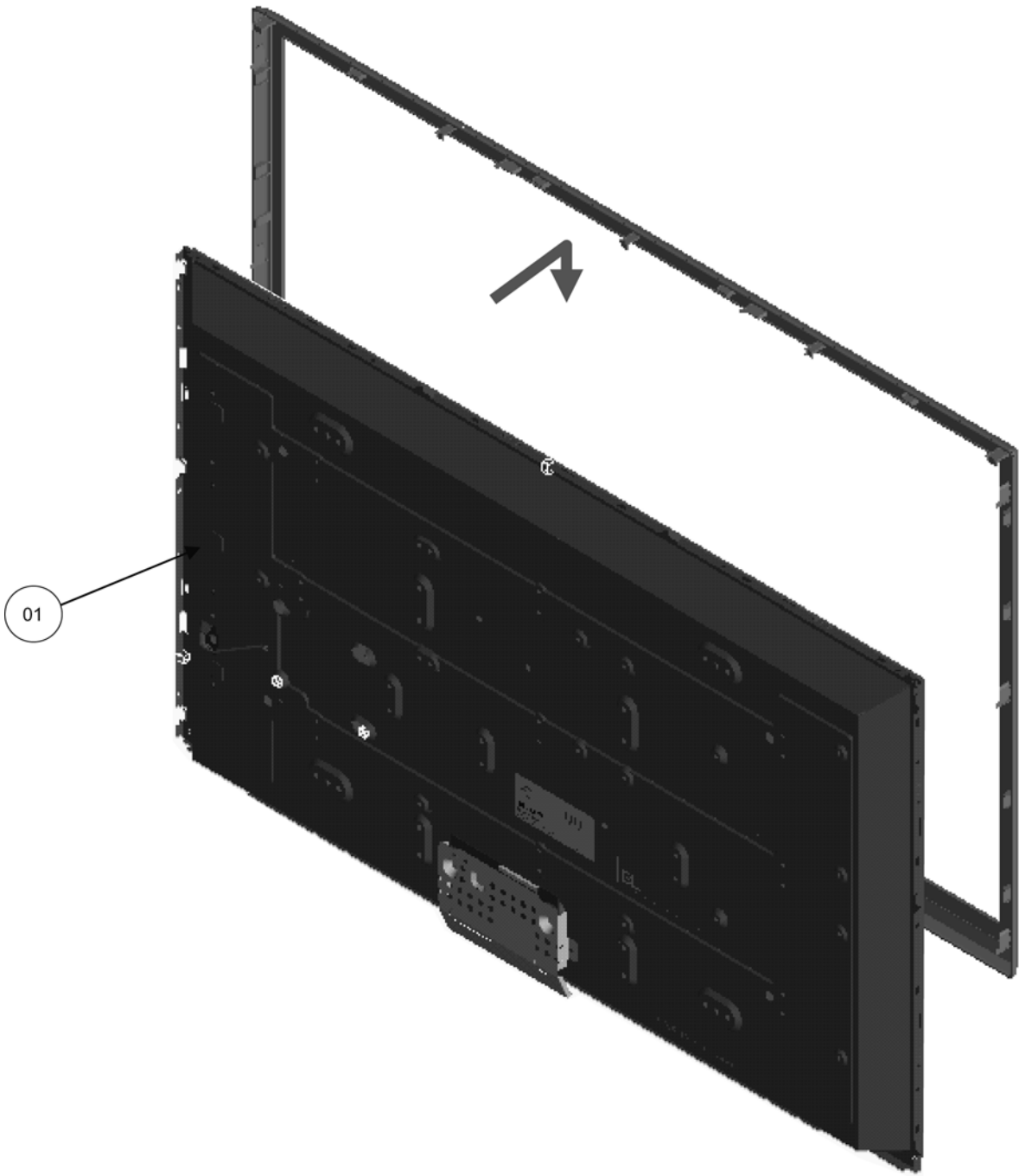
1. Fix Speaker Left & Right.
2. Fix Key button.
3. Stick Felt TMK4GA099 2 PC on PANEL.
4. Stick SP.SPONGE 2 pc at Speaker.



No	Part No	Description	Qty	UOM
01	L0EYAA000043	SPEAKER UNIT	2	PC
02	TBX5ZA02201	KEY_BUTTON	1	PC
03	TMK4GA099	FELT (180 × 5 × t0.55)	2	PC
04	TMK4GG082	SP. SPONGE	2	PC
05	TMK4GG089			

7.2. LCD Panel Assembly

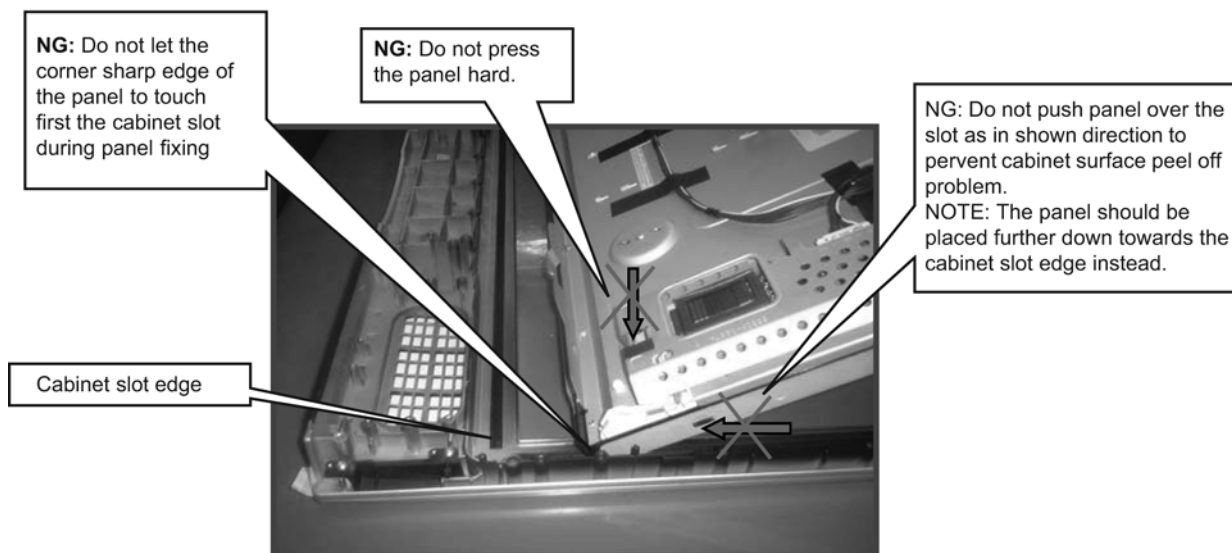
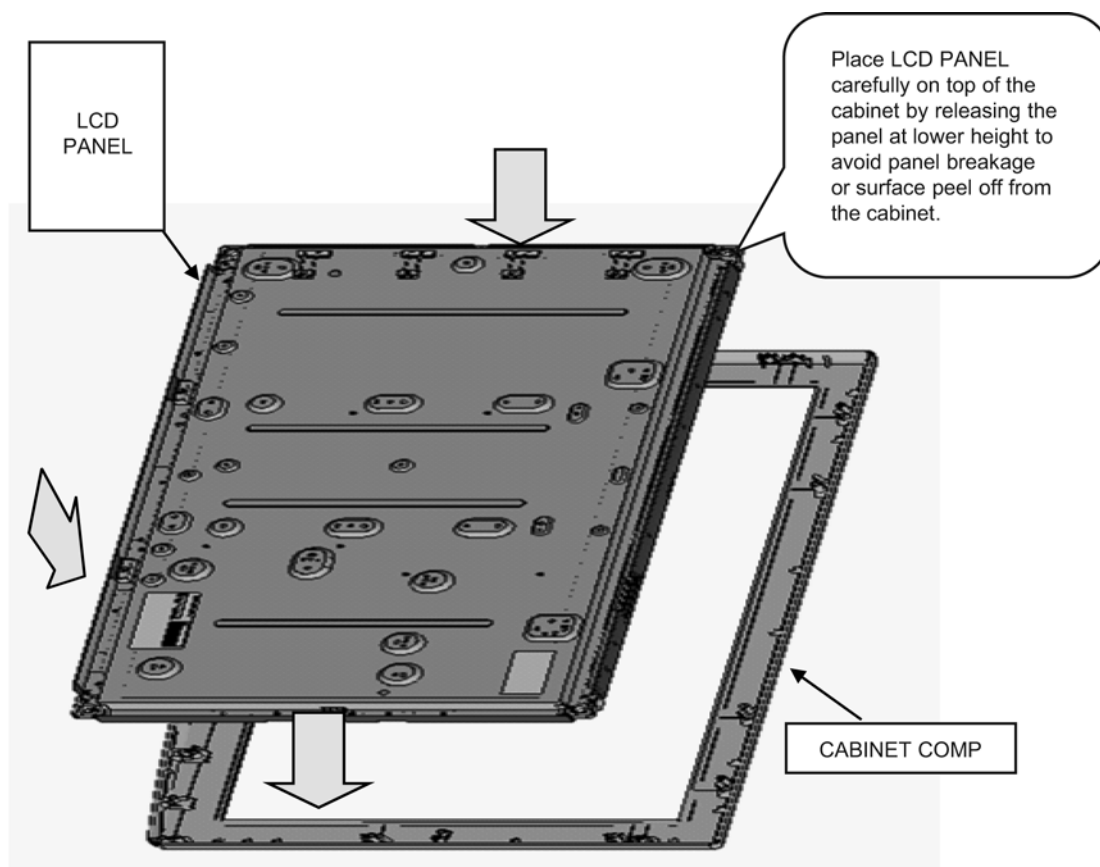
Install LCD panel to cabinet.



No	Part No	Description	Qty	UOM
01	L5EDDYY00472	LCD PANEL	1	PC

7.3. LCD Panel Fixing & Handling Method

1. Place down the cabinet as shown below.
2. Fix LCD panel into the cabinet by taking below precautions.

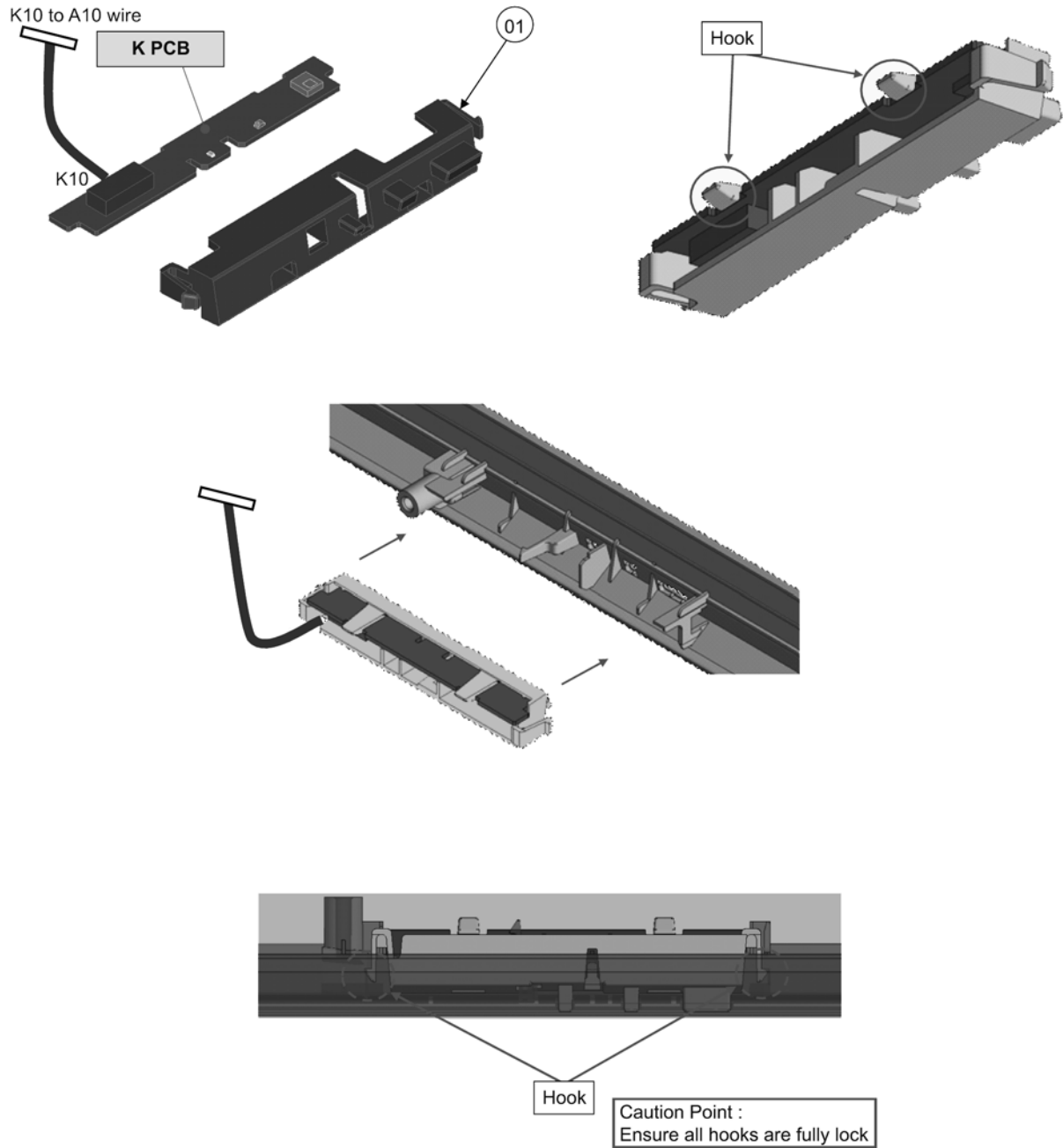


Other general precautions

1. Do not press panel surface to avoid blue spot on the panel display.
2. Do not use hard cloth or rub the surface too hard. This may cause scratches on the surface.
3. Take care not to subject the TV's surface to water or detergent. Any liquid (including pets urine) if enters the product could lead to TV failure.
4. Take care not to subject the surface to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
5. The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch with your fingernail or other hard objects.

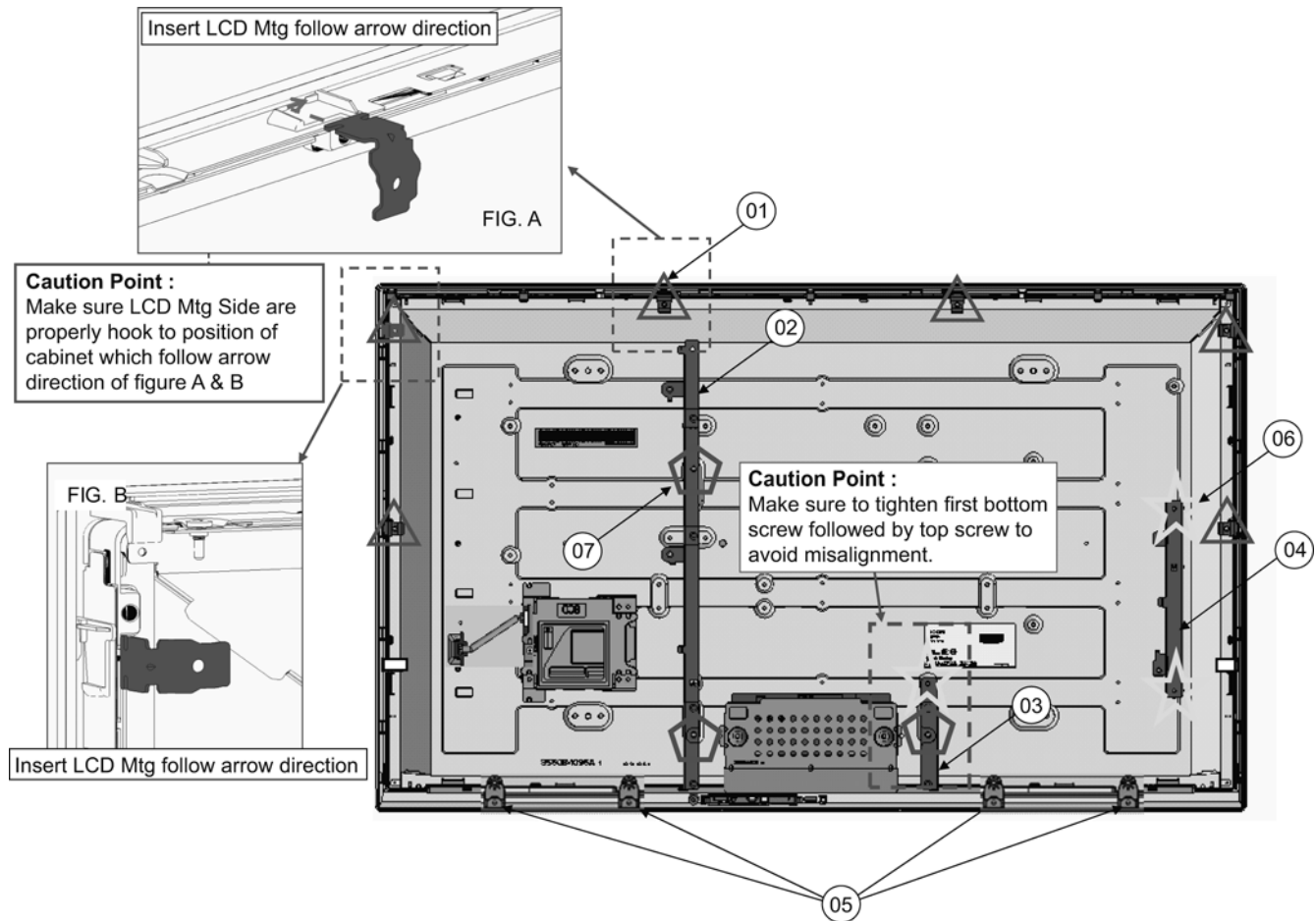
7.4. LED Panel and Bracket Assembly

1. Fixing wire A10 to K PCB.
2. Fixing K PCB to LED PANEL.
3. Fix LED panel to cabinet.



No	Description	Qty	UOM
01	TKK5ZC50311	1	PC

7.5. Metal Bracket



No	Part No	Description	Qty	UOM	Remarks
01	TKZ5ZA50251	LCD_MTG_SIDE	6	PC	
02	TUA5ZA07801	METAL_VERTICAL_R	1	PC	
03	TUA5ZA07901	METAL_VERTICAL_L	1	PC	
04	TUA5ZA07501	METAL_CH_FRAME-A	1	PC	
05	TKX5ZA02801	SPEAKER_BRACKET	4	PC	
06	THEJ036J	SCREW (A4/P2/MTL_VL1)	3	PC	6 ± 1 kgf.cm
07	THE4GJ001J	SCREW (MTL VR2/MTL VL1)	3	PC	13 ± 1 kgf.cm

7.6. PCB Installation

1. Install P & A-Board and fix it with screws.
2. Install Side AV Bracket and fix it with screws.

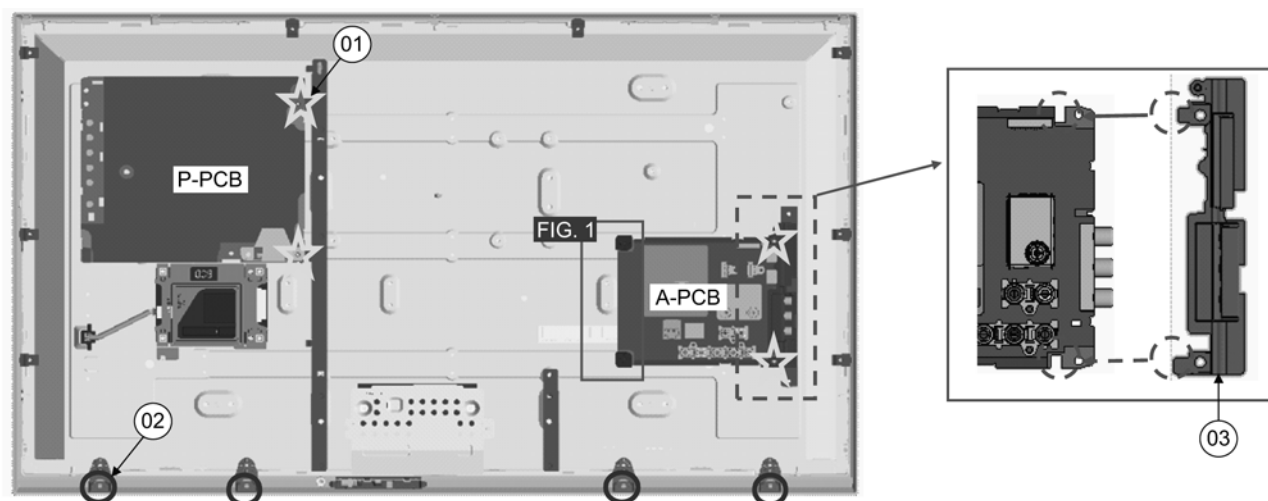
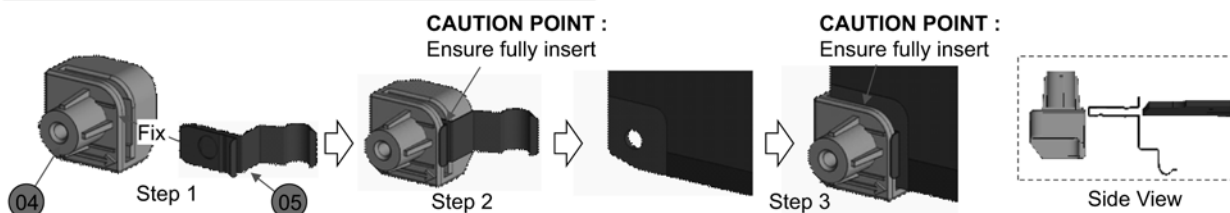


FIG. 1

ASSEMBLY CONTENT :

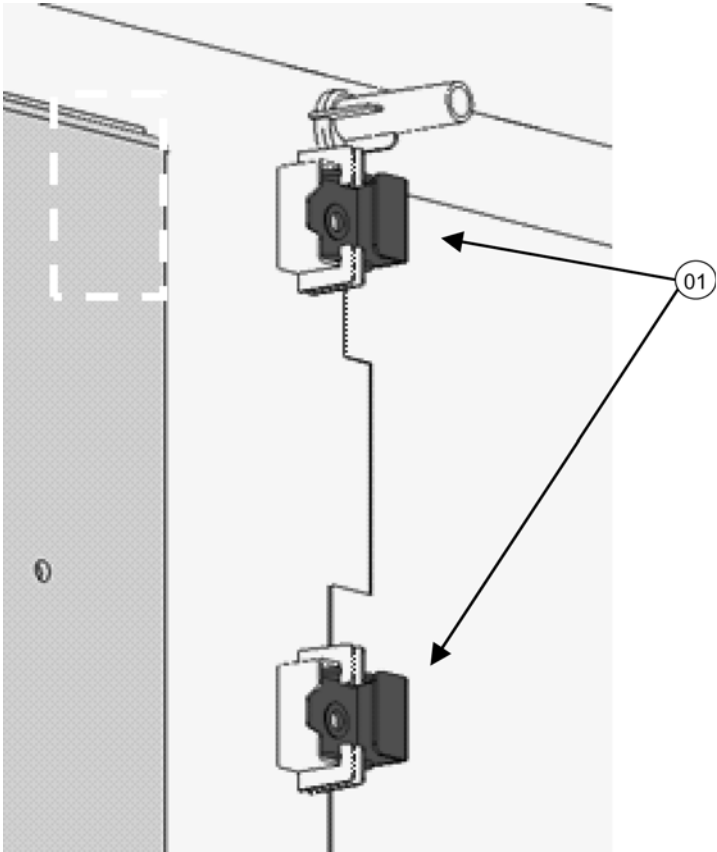
- 1) Fix ground spring at ch mount boss and ensure fully lock
- 2) Fix ch mount assembly to pcb and ensure fully lock



No	Part No	Description	Qty	UOM	Remarks
01	THEJ036J	SCREW (A4/P2/MTL_VL1)	4	PC	6 ± 1 kgf.cm
02	XTV3 + 10JFJ	SCREW (SP BRKT)	4	PC	6 ± 1 kgf.cm
03	TKP5ZA32203	SIDE AV BRACKET	1	PC	
04	TMX5ZE0046	CHASSIS BRACKET A-PCB	2	PC	
05	TES5ZA003-1	GROUND SPRING	2	PC	

7.7. Vesa Metal (BC)

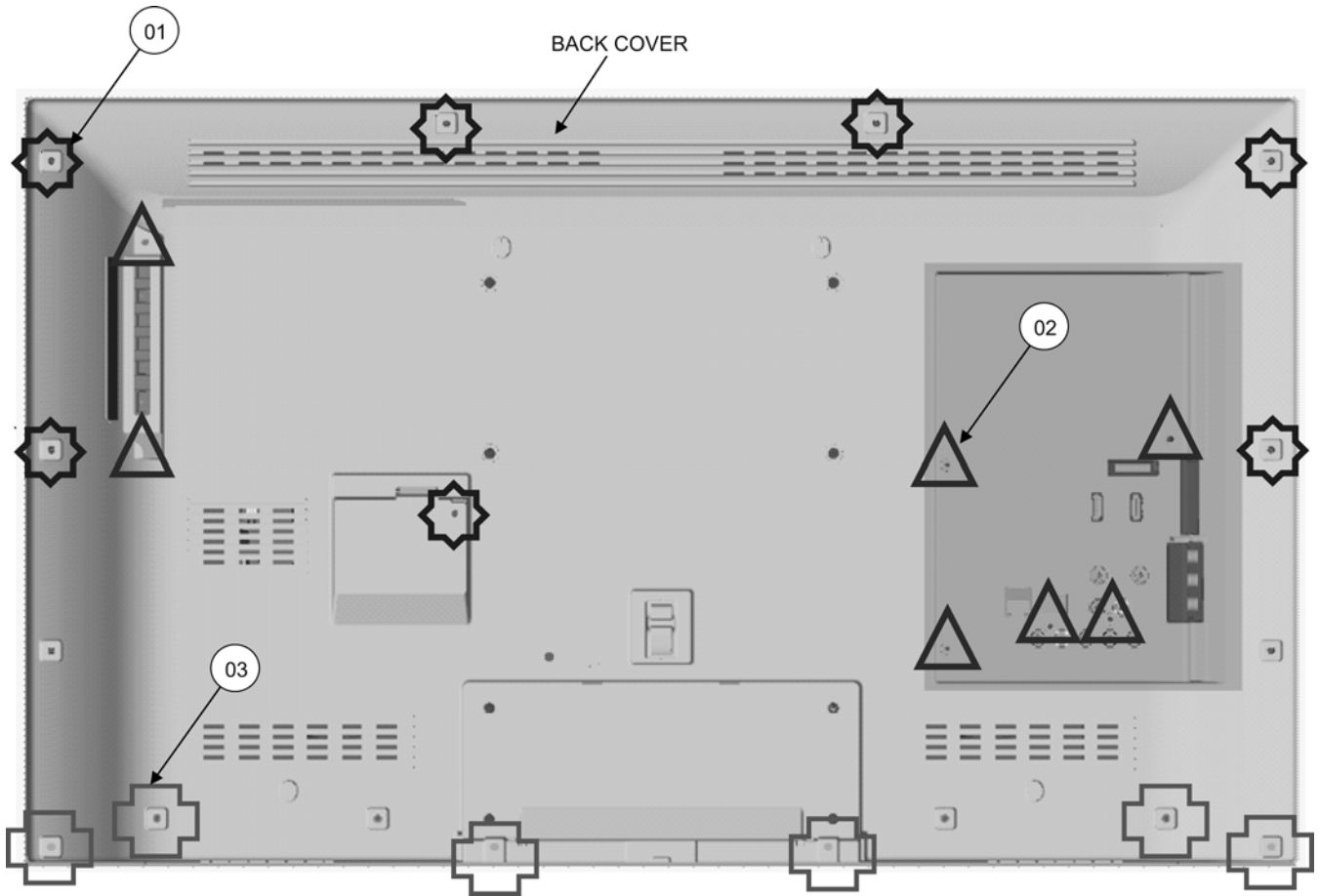
Install vesa metal 2 pc into back cover.



No	Part No	Description	Qty	UOM
01	TKZ4GX5034	VESA METAL	2	PC

7.8. Back Cover Installation

1. Install Back cover.
2. Fix screws.



No	Part No	Description	Qty	UOM	Remarks
01	THEC1509	SCREW (B7)	7	PC	6 ± 1 kgf.cm
02	XTV3 + 8GFJK	SCREW (AV5)	7	PC	6 ± 1 kgf.cm
03	THTD030J	SCREW (BC8)	6	PC	10 ± 2 kgf.cm

8 Measurements and Adjustments

8.1. Voltage chart of A-board

Set A-Board to a dummy set and check the satisfaction with the specified voltage as following table.

Power Supply Name	Measurement Point	Specification
PNL12V	TP4097	$12.1V \pm 0.8V$
SUB3.3V	TP5400	$3.32V \pm 0.165V$
SUB1.1V	TP8101	$1.14V \pm 0.07V$
SUB1.5V	TP8100	$1.52V \pm 0.05V$
SUB5V	TP5420	$5.0V \pm 0.25V$
HDMI3.3V	TP8000	$3.3V \pm 0.16V$

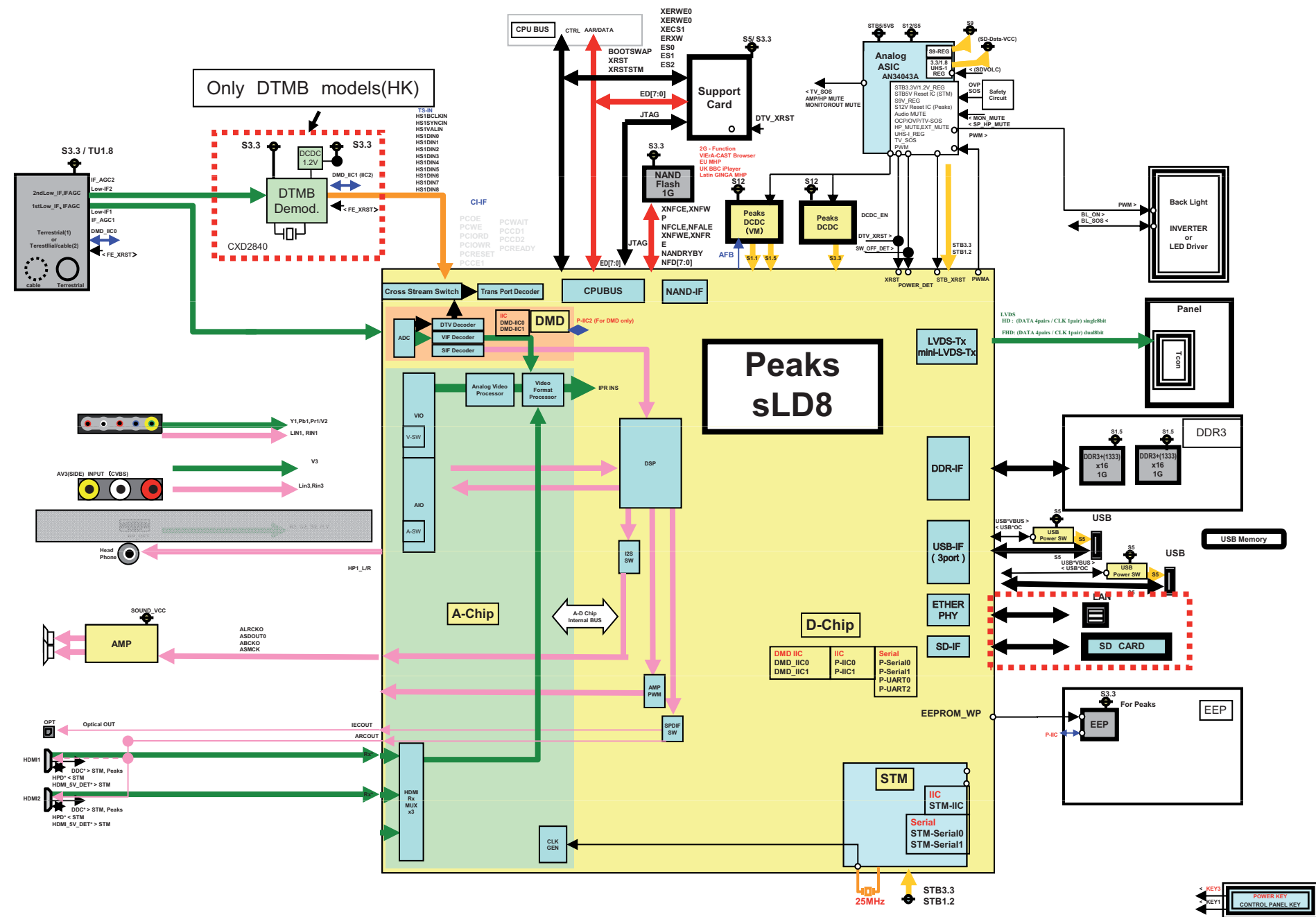
8.2. Voltage chart of P-board

Set P-Board to a dummy load and check the satisfaction with the specified voltage as following table.

Output	Test Point	Specification	
		Operate	STBY
5.3V	TP7501	$5.3 \pm 0.20V$	$5.3 \pm 0.20V$
16V	TP7410/ TP7411/ TP7412	$15.5 \pm 0.8 V$	-
24V	TP7511/ TP7512	$24V \pm 1.2 V$	-

9 Block Diagram

9.1. Main Block Diagram



10 Wiring Connection Diagram

10.1. Wire Dressing

Do wire dressing follow below spec:

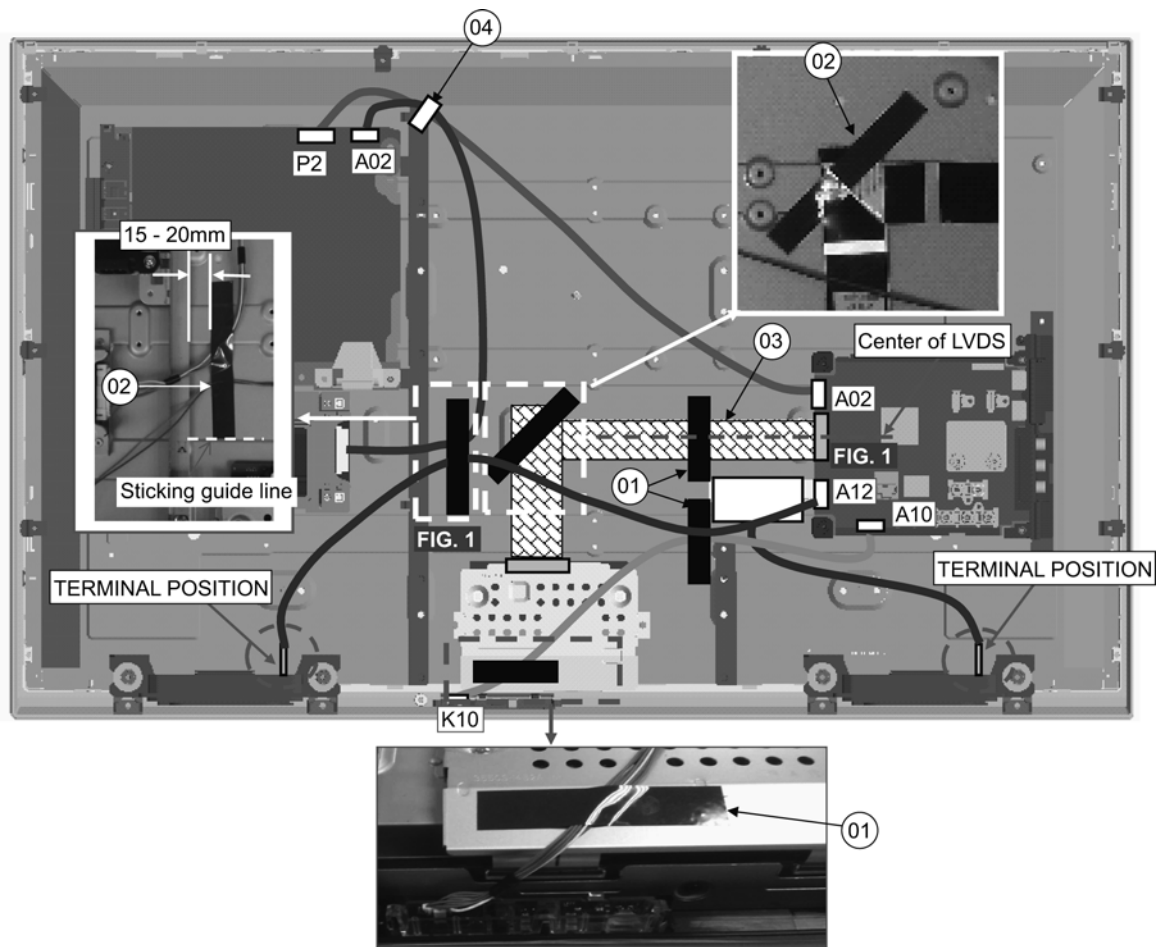


FIG. 1

Reference flexibles prepare intimately connected cables

Open

Insert the hooks on both sides of the flexible cable

NOTE: Ensure that the cable is properly inserted.

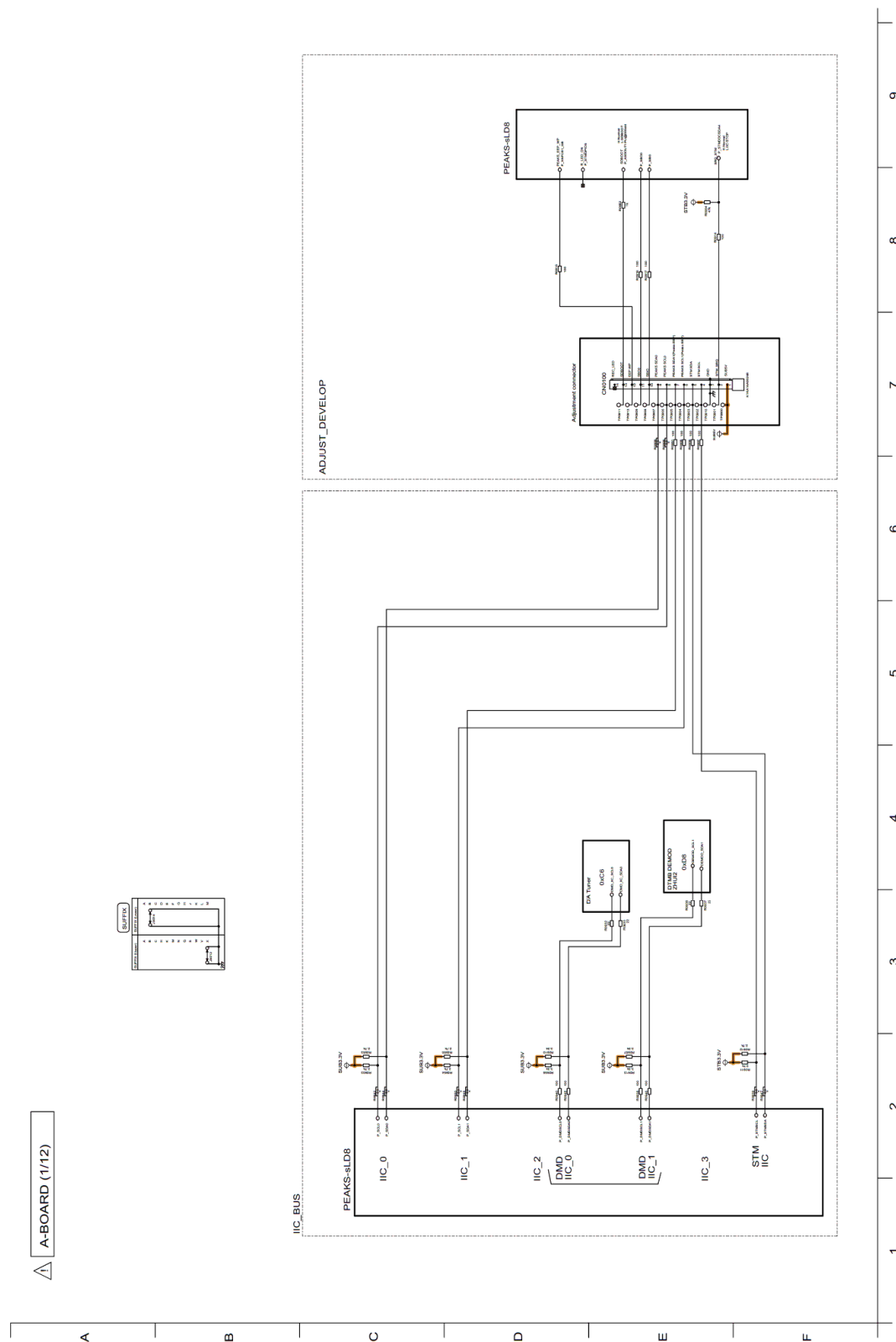
Close the press for the connector plug at both ends using 2 hands.

NOTE: If you want to disconnect the flexible, open the gate of the connector and gently pull at the same time to remove.

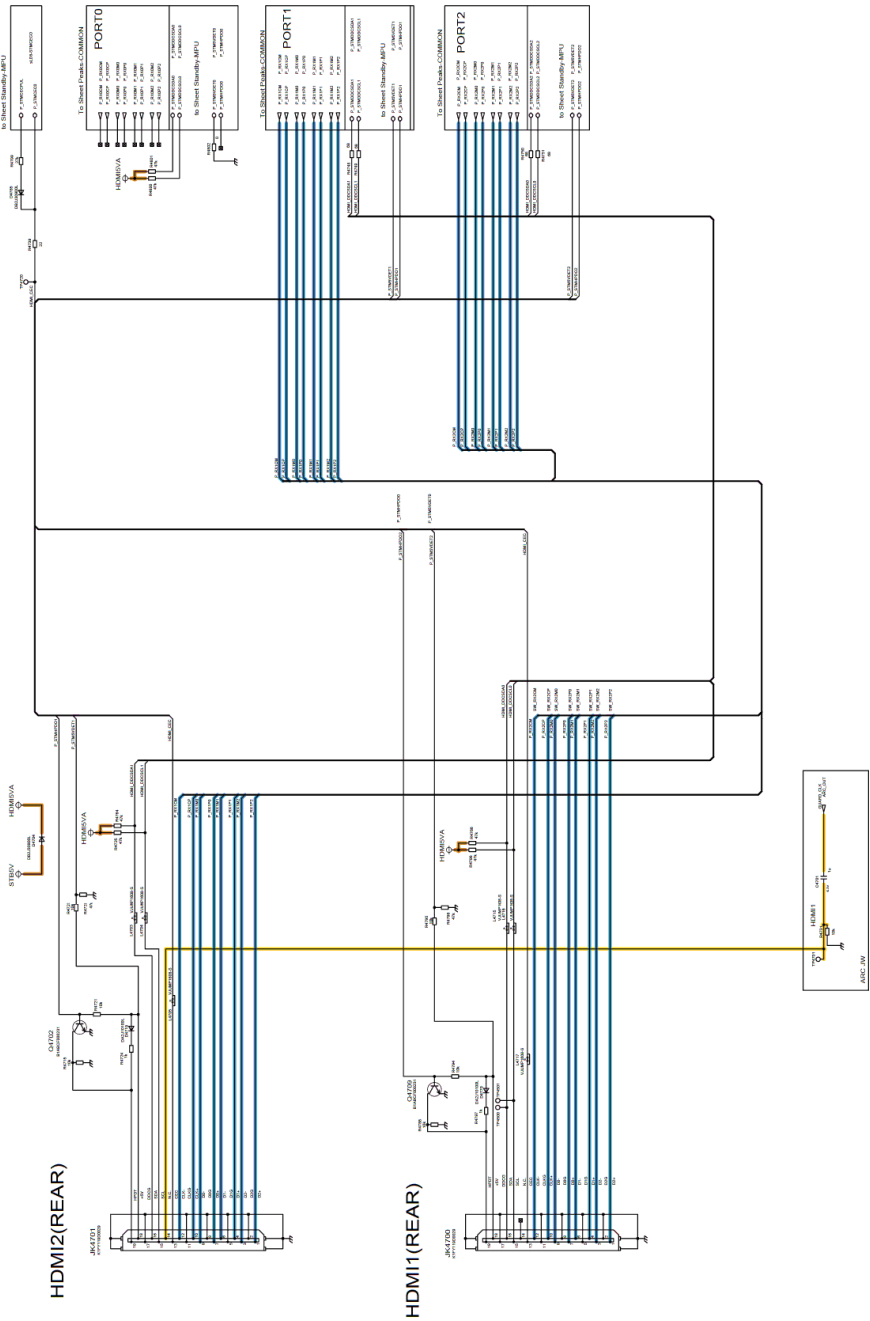
No	Part No	Description	Qty	UOM	Remarks
01	T4FP1505J	PET TAPE (GREY W=15mm)	0.21	MT	0.07 × 3
02	T4FP1505J	PET TAPE (GREY W=15mm)	0.2	MT	0.10 × 2
03	TSCKF0250001	LVDS CABLE	1	PC	
04	TMME268	CLAMPER	1	PC	

11 Schematic Diagram

Model No. : TH-L32B6R A-Board (1/12)



A-BOARD (2/12)



18

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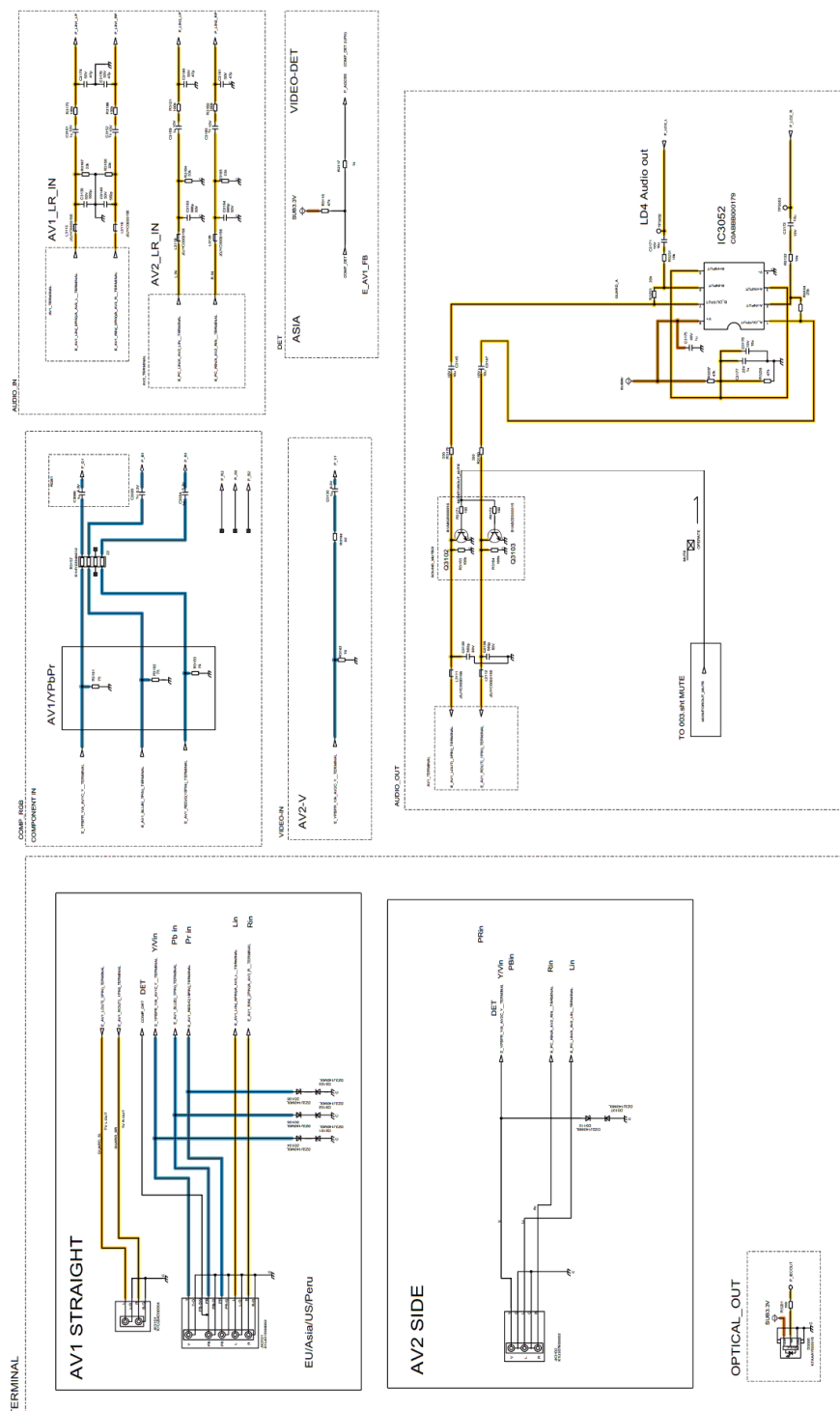
14

13

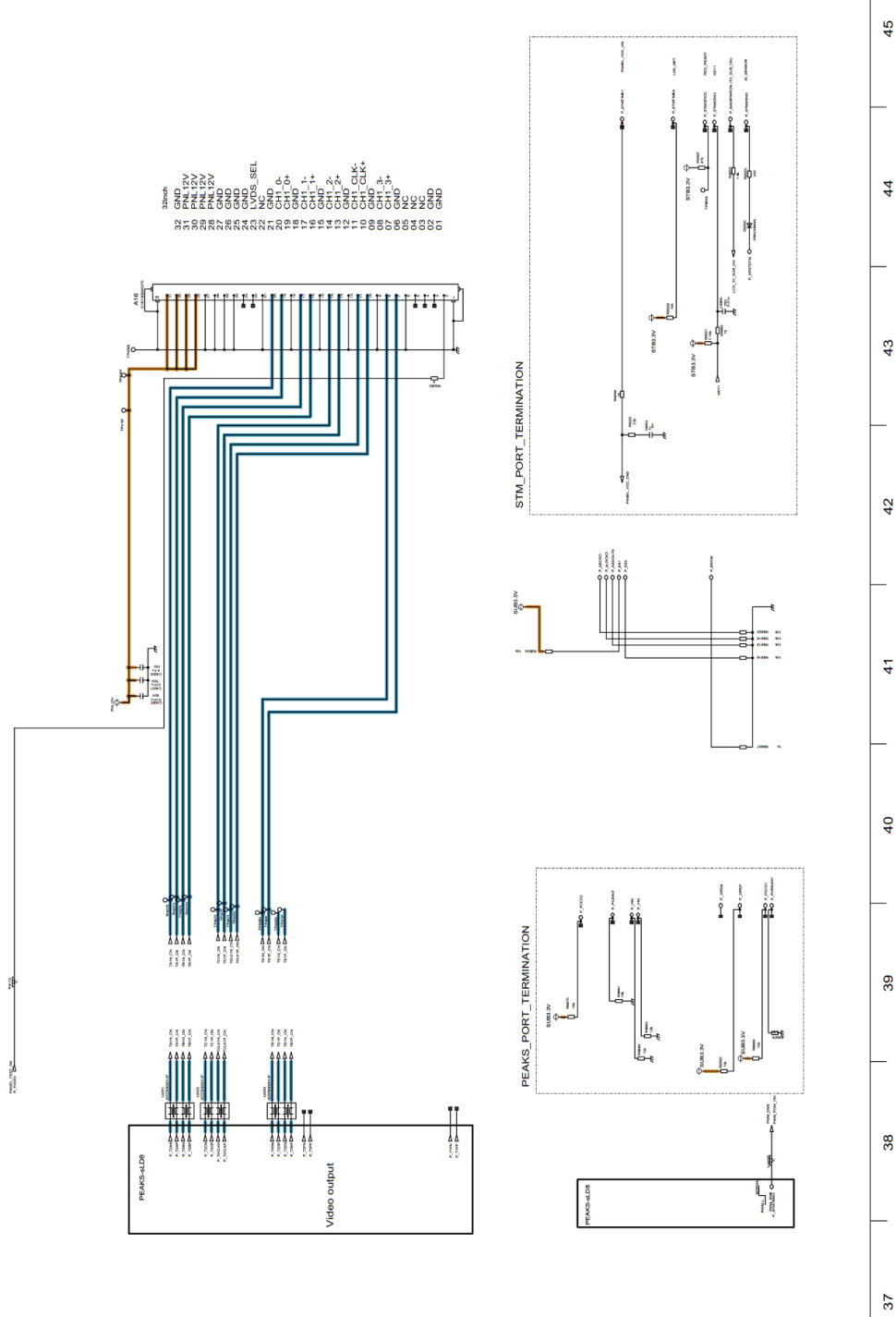
12

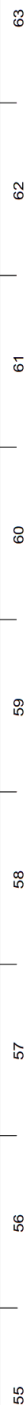
11

10

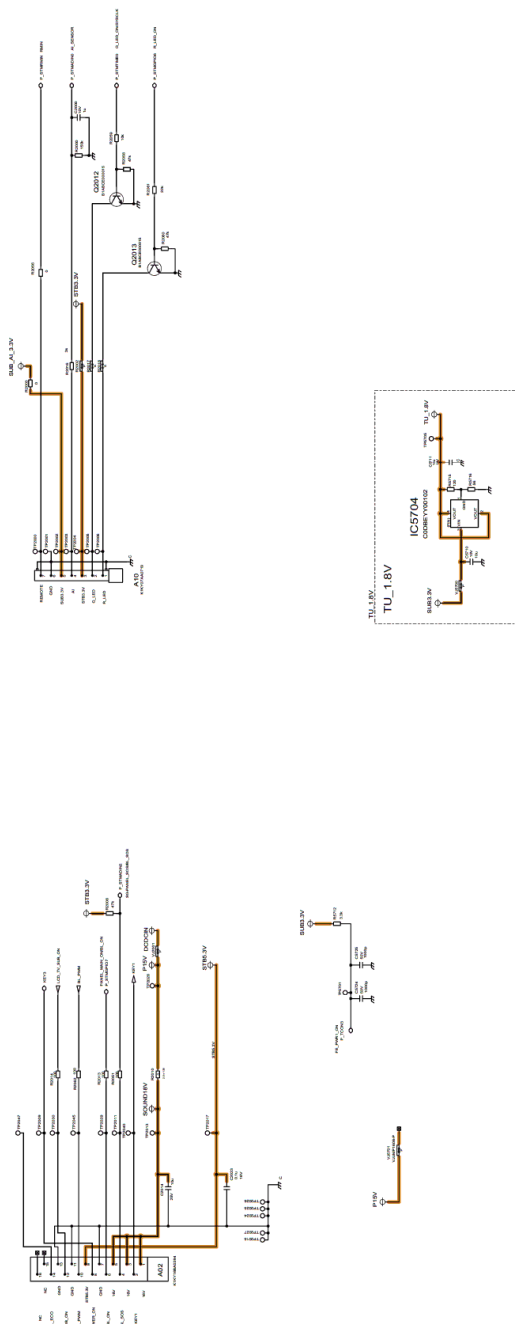
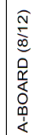


A-BOARD (5/12)





Model No. : TH-L32B6R A-Board (8/12)



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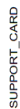
68

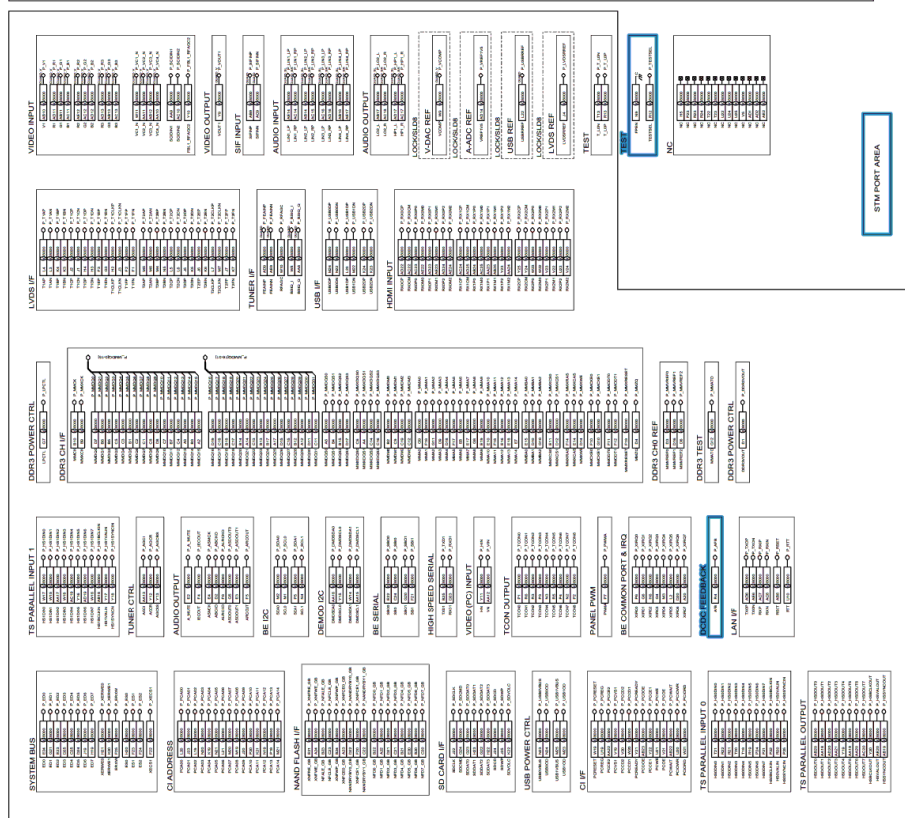
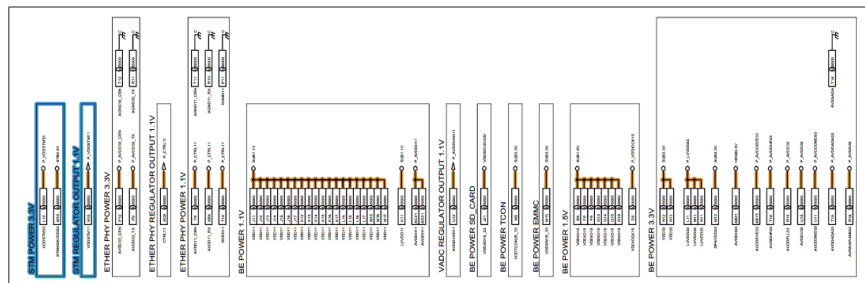
69

70

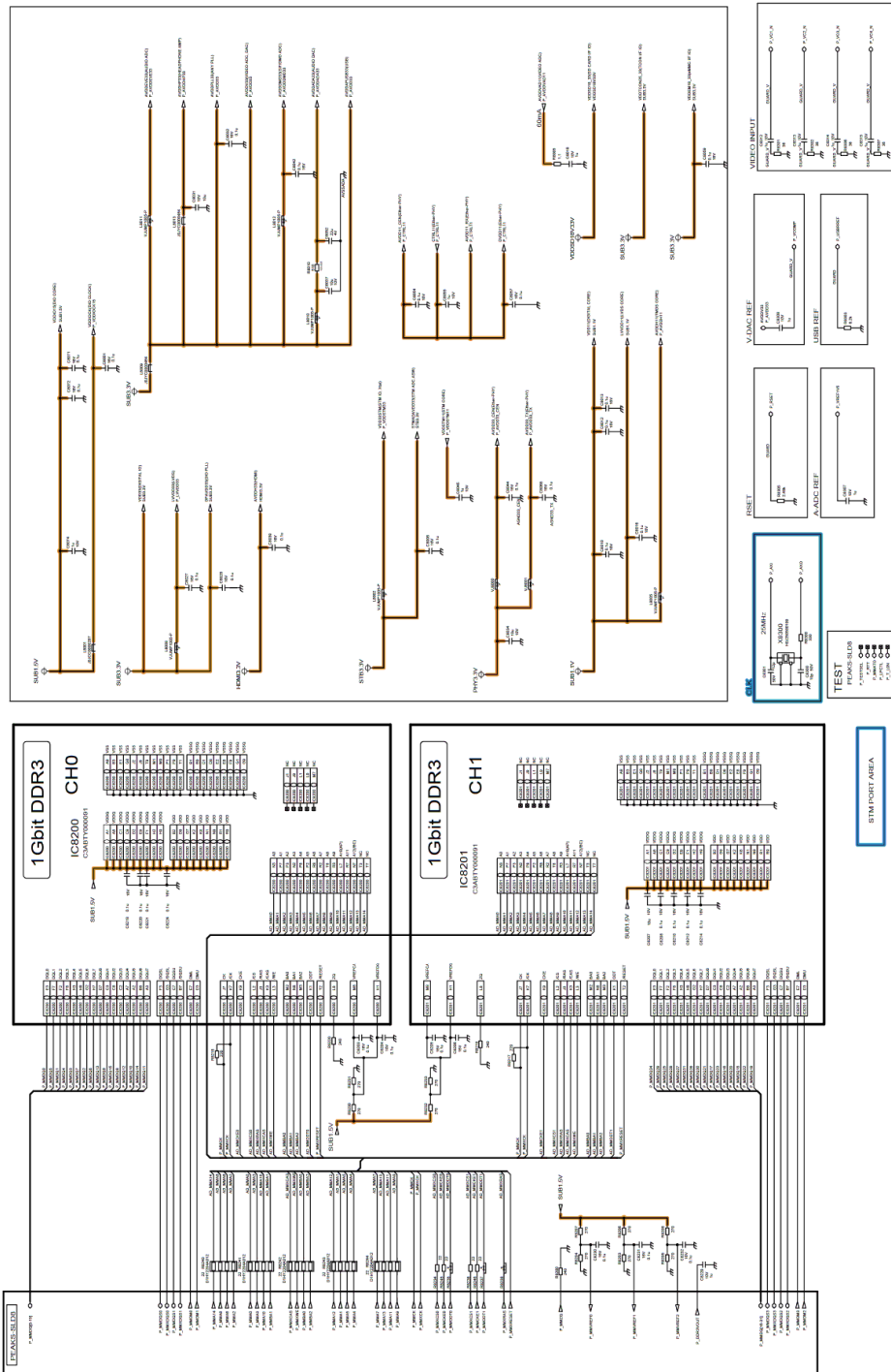
71

72

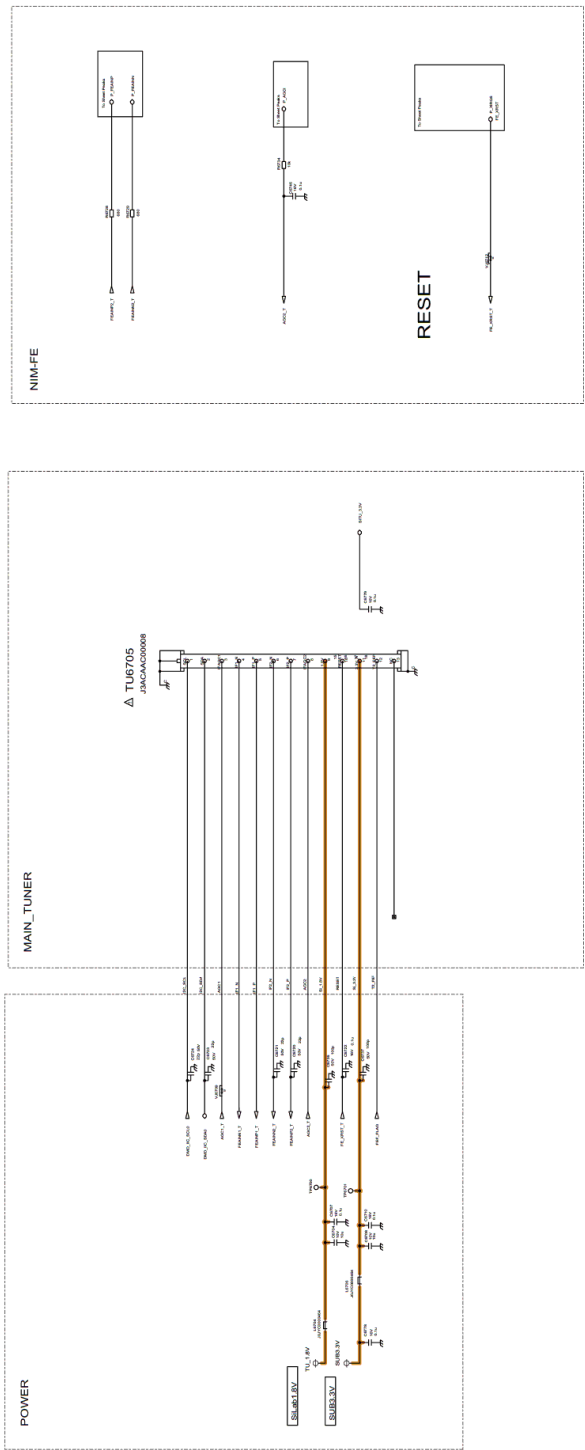


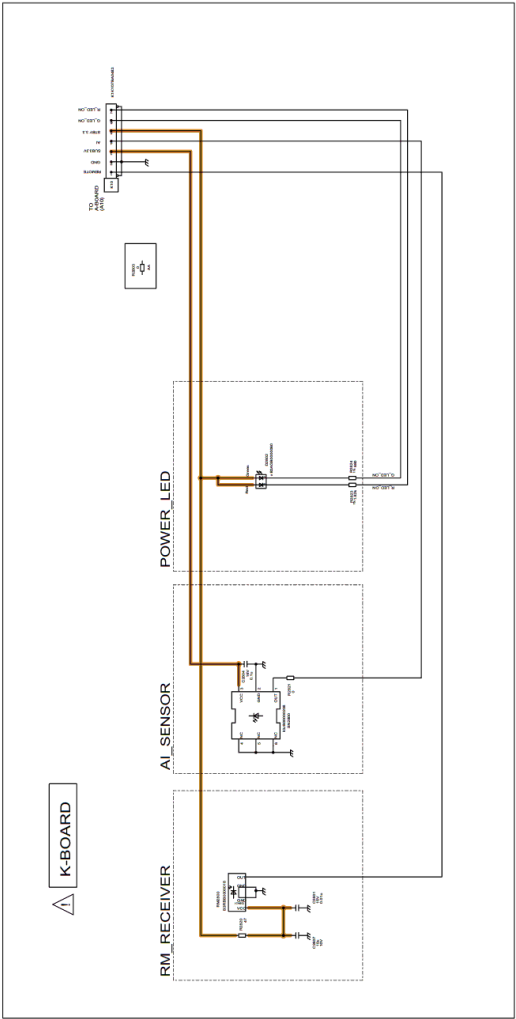


A-BOARD (11/12)



△ A-BOARD (12/12)





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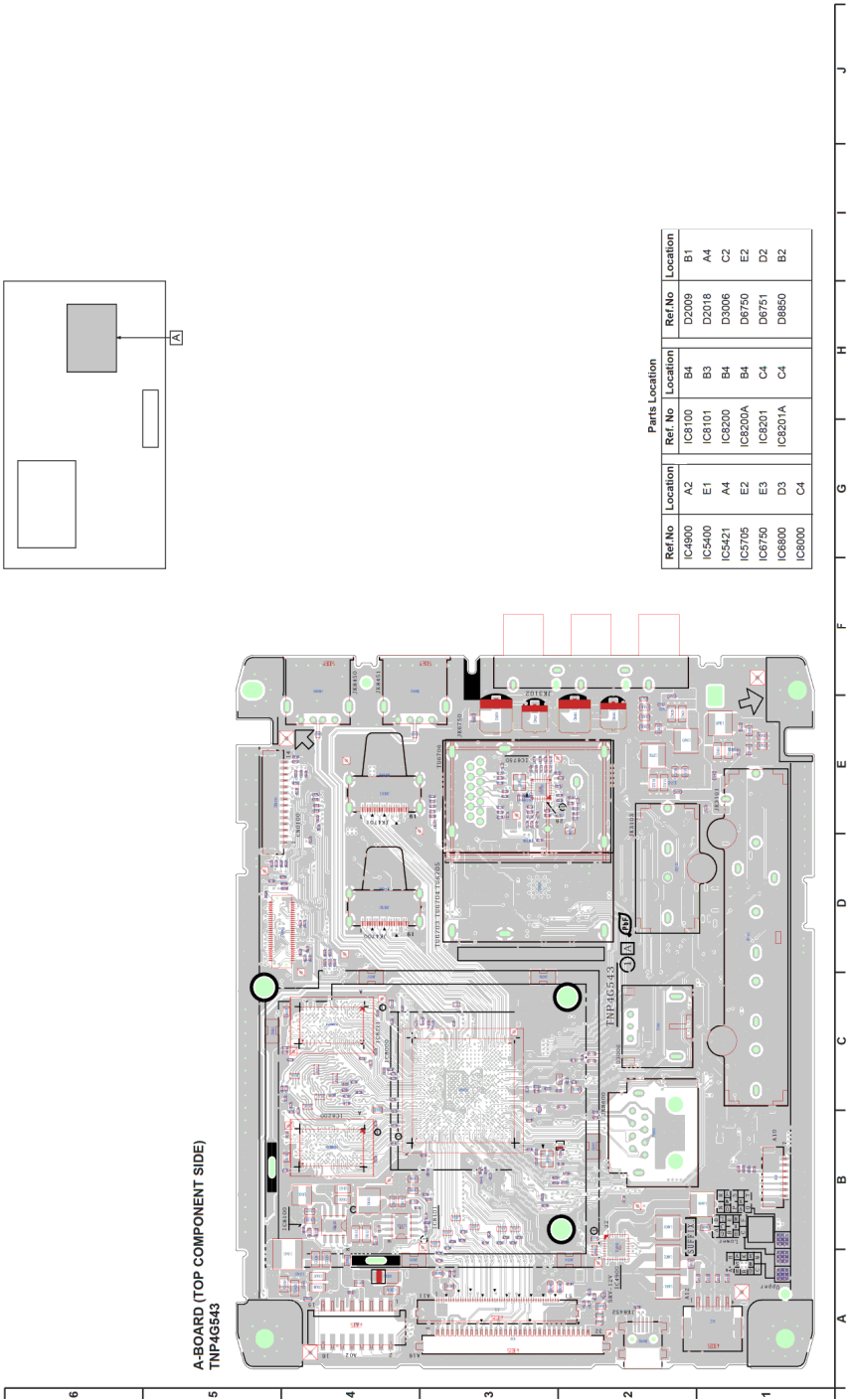
8

9

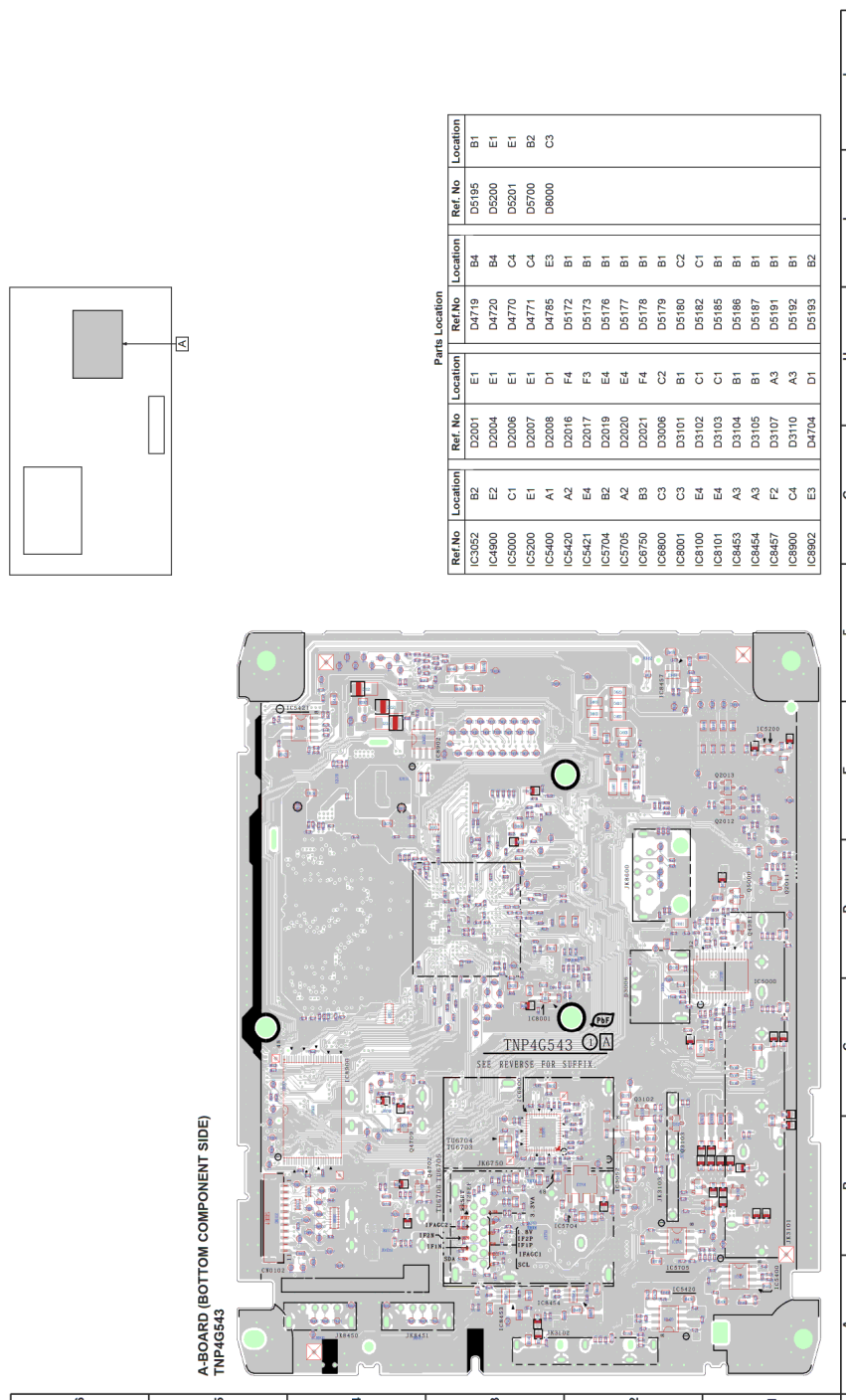
Model No. : TH-L32B6R P-Board

12 Printed Circuit Board

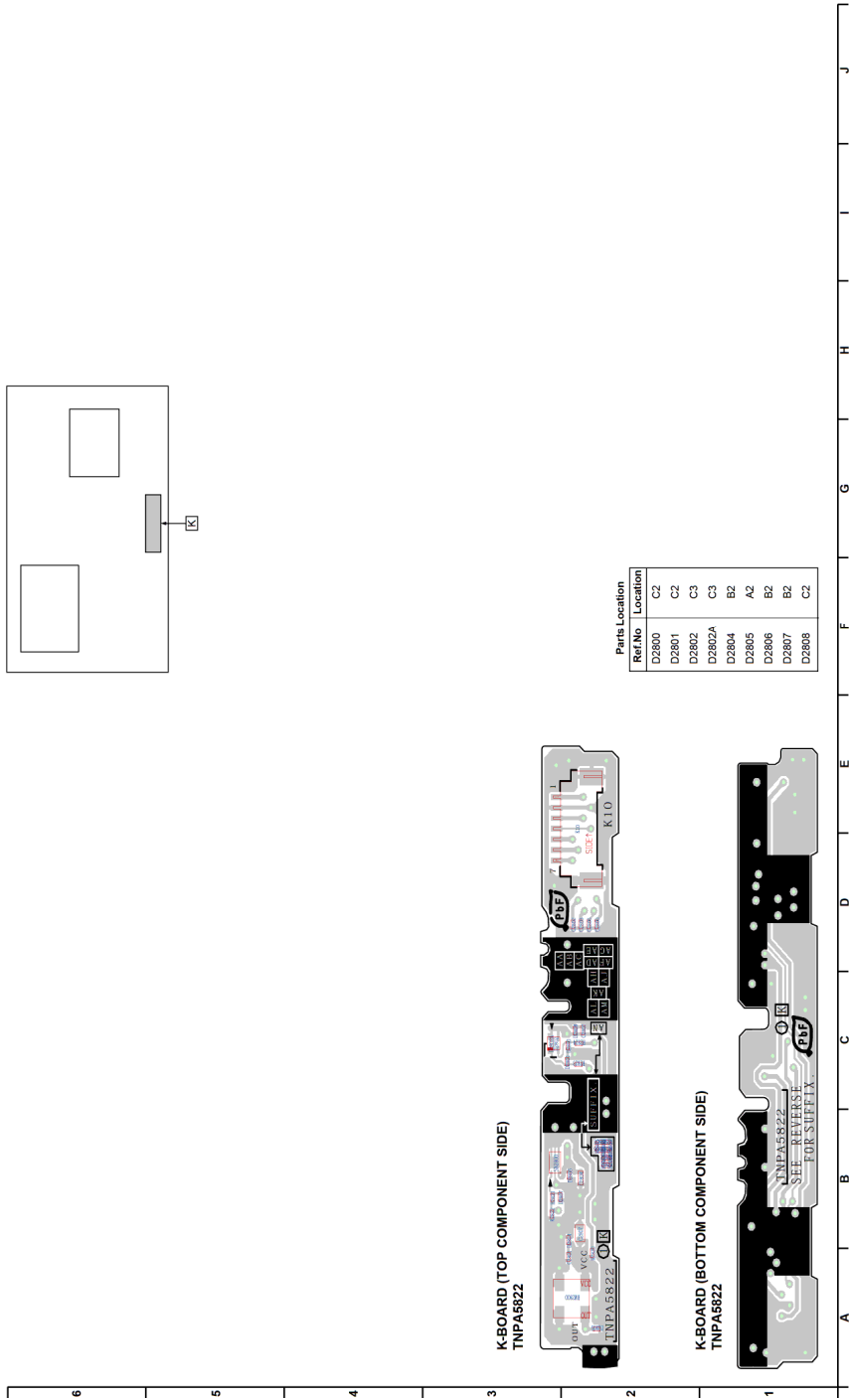
Model No. : TH-L32B6R A-Board (Top Component Side)



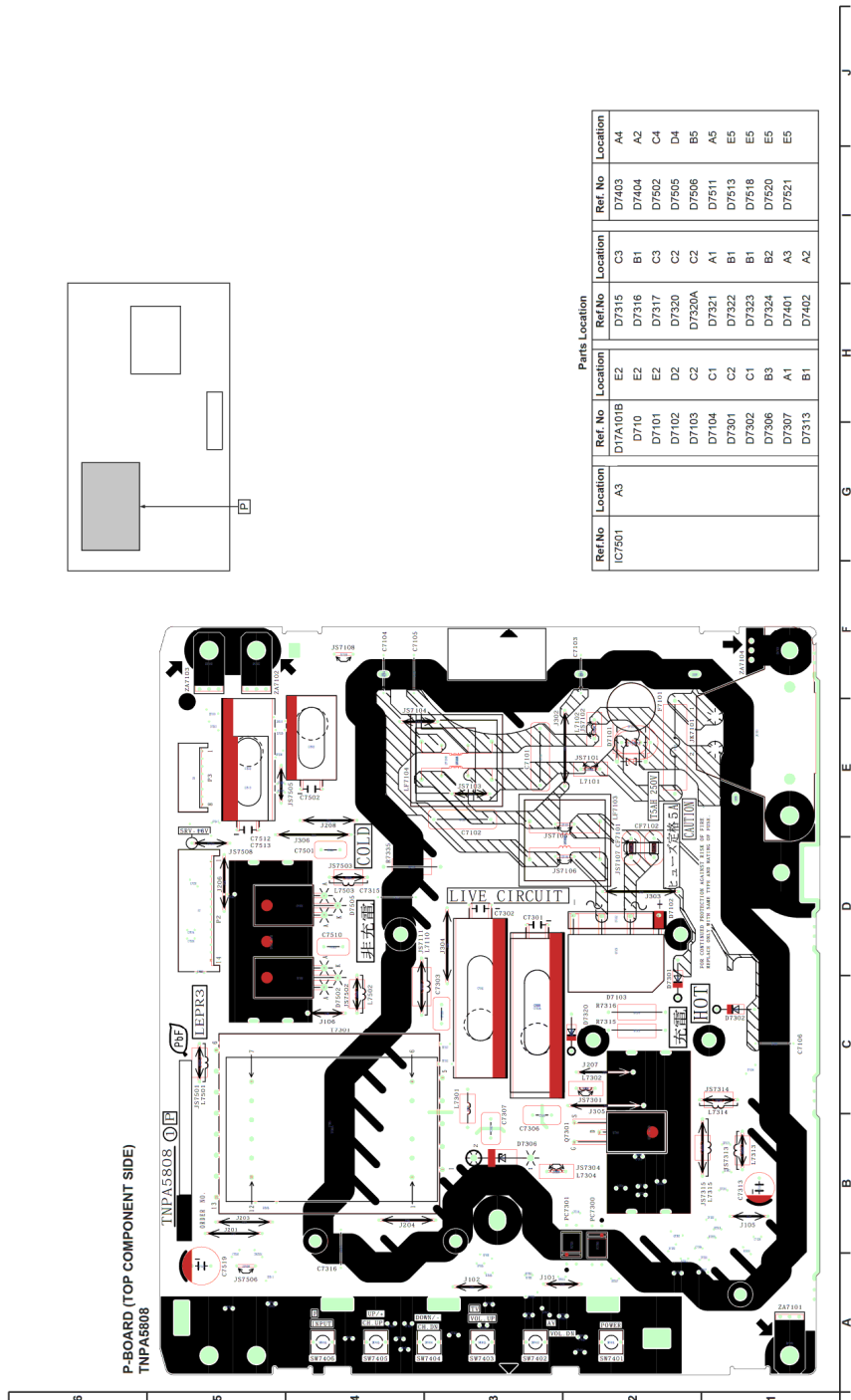
Model No. : TH-L32B6R A-Board (Bottom Component Side)



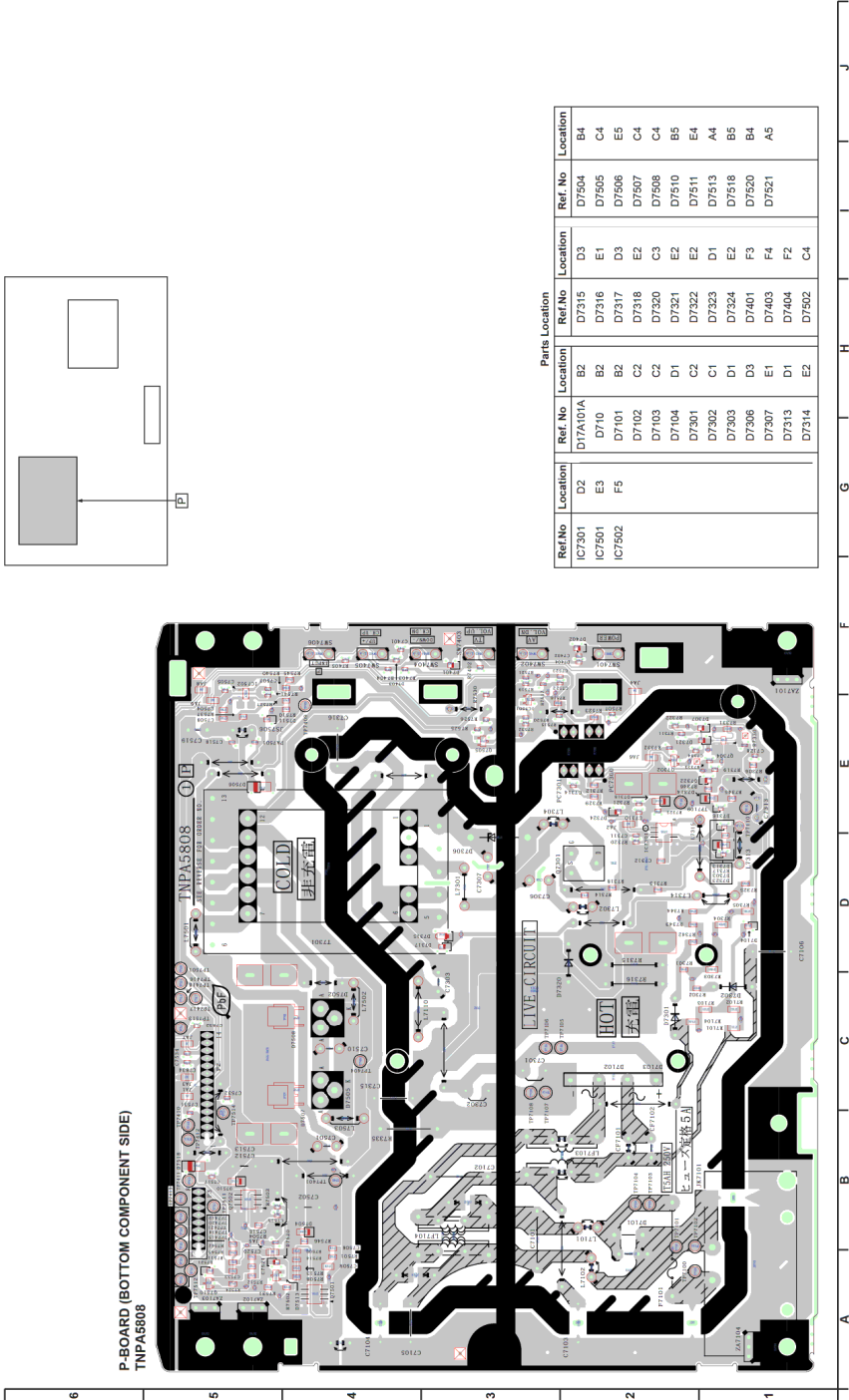
Model No. : TH-L32B6R K-Board



Model No. : TH-L32B6R P-Board

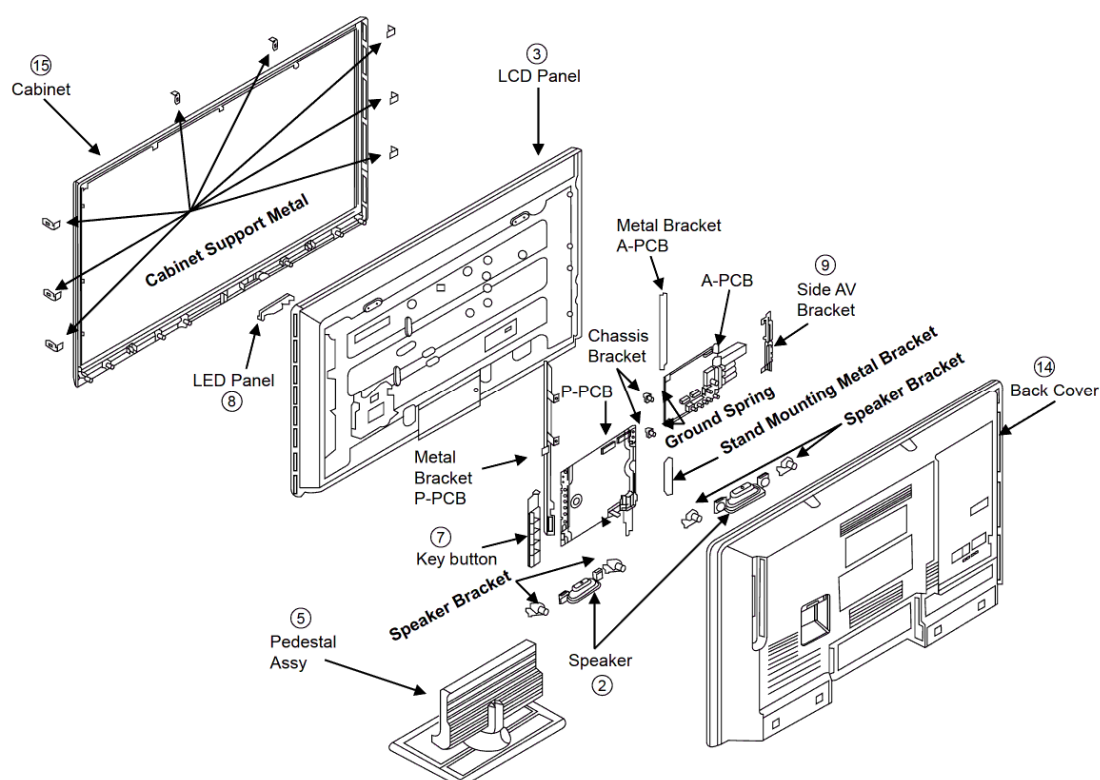


Model No. : TH-L32B6R P-Board (Top Component Side)



13 Exploded View and Replacement Parts List

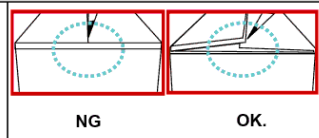
Model No. : TH-L32B6R Parts Location



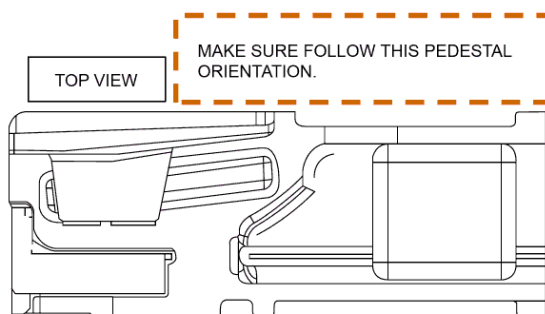
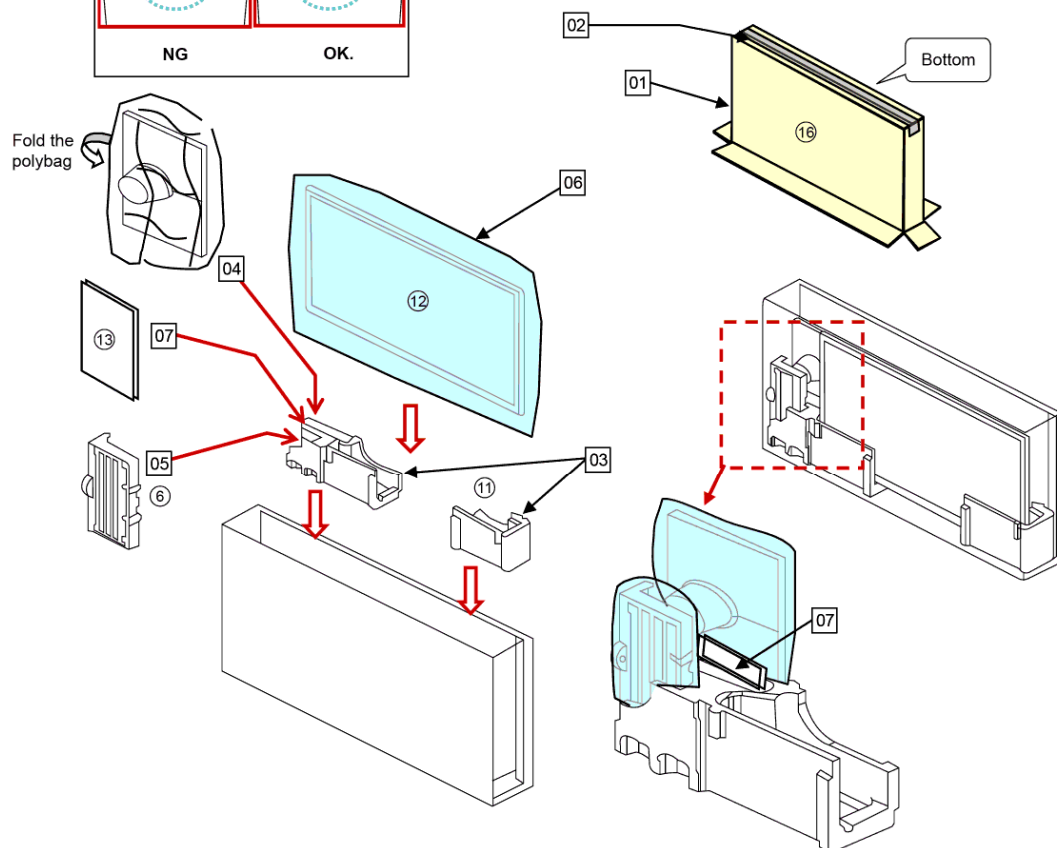
Model No. : TH-L32B6R Packing Exploded View 1

- 1) Fold packing case at bottom side and tapping with tape.
- 2) Insert bottom cushion at packing case.
- 3) Cover set with set cover and inside to packing case.
- 4) Insert Fan bag assy, Base cover and Stand mould at bottom cushion.

[Caution]
Need to make sure packing case top & bottom isn't overlap and bending.



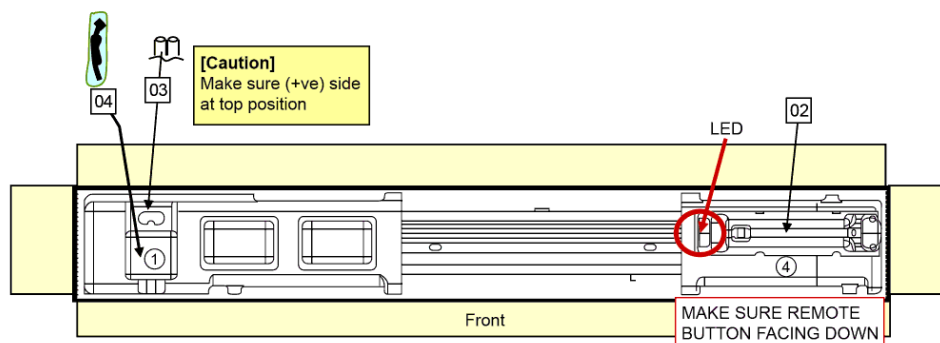
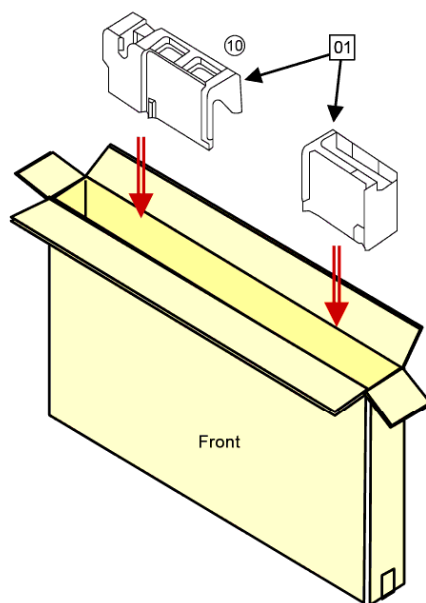
No	Description	Qty	UOM	Remarks
01	PACKING CASE	1	PC	
02	PP TAPE	2.3	MT	
03	BOTTOM CUSHION	1	PC	
04	BASE COVER	1	PC	
05	STAND MOULD	1	PC	
06	SET COVER	1	PC	
07	FAN BAG ASSY	1	PC	



Model No. : TH-L32B6R Packing Exploded View 2

- 1) Insert top cushion.
- 2) Insert Remote transmitter, AC Cord and battery at top cushion.

No	Part No	Description	Qty	UOM	Remarks
01	TPD4GA04411	TOP CUSHION	1	PC	
02	N2QAYB000817	REMOTE TRANSMITTER	1	PC	
03	R6UWC/2SKD	BATTERY	1	PC	
04	K2CJ2YY00087	AC CORD	1	PC	



Model No. : TH-L32B6R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
CAPACITORS						
		C1958	F1G1E103A059	C 0.01UF 25V		
		C2000	F1G1A105A047	C 1UF 10V		
		C2014	F1K1E106A134	C 10UF, 25V		
		C2023	F1G1C104A077	C 0.1UF 16V		
		C2801	F1G1C1030008	C 0.01UF 16V		
		C2804	F1H1C104A178	C 0.1UF 16V		
		C2807	F1J1A106A043	C 10UF, 10V		
		C3084	F1H0J105A051	C 1UF, 6.3V		
		C3085	F1H0J105A051	C 1UF, 6.3V		
		C3086	F1H0J105A051	C 1UF, 6.3V		
		C3130	F1H0J105A051	C 1UF, 6.3V		
		C3135	F1G1H471A834	C 470PF, 50V		
		C3136	F1G1H471A834	C 470PF, 50V		
		C3139	F1G1H471A834	C 470PF, 50V		
		C3140	F1G1H471A834	C 470PF, 50V		
		C3145	F1J1A106A087	C 10UF, 10V		
		C3147	F1J1A106A087	C 10UF, 10V		
		C3151	F1H1A105A099	C 1UF, 10V		
		C3152	F1H1A105A099	C 1UF, 10V		
		C3153	F1G1H471A834	C 470PF, 50V		
		C3154	F1G1H471A834	C 470PF, 50V		
		C3159	F1H1A105A099	C 1UF, 10V		
		C3160	F1H1A105A099	C 1UF, 10V		
		C3171	F1J1A106A087	C 10UF, 10V		
		C3172	F1J1A106A087	C 10UF, 10V		
		C3175	F1J1E105A287	C 1UF, 25V		
		C3176	F1J1A106A087	C 10UF, 10V		
		C3177	F1J1E105A287	C 1UF, 25V		
		C3178	F1G1H470A834	C 47PF, 50V		
		C3179	F1G1H470A834	C 47PF, 50V		
		C3180	F1G1H470A834	C 47PF, 50V		
		C3181	F1G1H470A834	C 47PF, 50V		
		C4000	F1H1H103B047	C 0.01UF, 50V		
		C4001	F1H1H103B047	C 0.01UF, 50V		
		C4002	F1J1C475A217	C 4.7UF, 16V		
		C4701	F1H0J105A051	C 1UF, 6.3V		
		C4900	F1K1V106A010	C 10UF, 25V		
		C4901	F1K1V106A010	C 10UF, 25V		
		C4902	F1J1E105A287	C 1UF, 25V		
		C4903	F1K1V106A010	C 10UF, 25V		
		C4904	F1J1E105A287	C 1UF, 25V		
		C4905	F1H1C105A167	C 1UF, 10V		
		C4906	F1K1V106A010	C 10UF, 25V		
		C4907	F1J1E105A287	C 1UF, 25V		
		C4908	F1K1V106A010	C 10UF, 25V		
		C4909	F1J1E105A287	C 1UF, 25V		
		C4919	F1J1E224A272	C 0.22UF, 25V		
		C4920	F1J1E224A272	C 0.22UF, 25V		
		C4921	F1H1E104A029	C 0.1UF , 25V		
		C4922	F1H1E104A029	C 0.1UF , 25V		
		C4923	F1H1E104A029	C 0.1UF , 25V		
		C4924	F1H1E104A029	C 0.1UF , 25V		
		C5000	F1G1A105A047	C 1UF 10V		
		C5002	F1G1A105A047	C 1UF 10V		
		C5004	F1G1A105A047	C 1UF 10V		
		C5006	F1J1E105A287	C 1UF, 25V		
		C5012	F1G1A105A047	C 1UF 10V		
		C5020	F1G1C104A077	C 0.1UF 16V		
		C5021	F1G1A105A047	C 1UF 10V		
		C5022	F1G1C104A077	C 0.1UF 16V		
		C5026	F1H1C105A145	C 1 uF 16 V		

Model No. : TH-L32B6R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C5150	F1G1E103A059	C 0.01UF 25V		
		C5151	F1G1E103A059	C 0.01UF 25V		
		C5171	F1G1C1030008	C 0.01UF 16V		
		C5202	F1G1H1020008	C 1000PF 50V		
		C5203	F1G1H1020008	C 1000PF 50V		
		C5204	F1G1C1030008	C 0.01UF 16V		
		C5400	F1K1V106A010	C 10UF, 25V		
		C5401	F1K1V106A010	C 10UF, 25V		
		C5402	F1G1C104A077	C 0.1UF 16V		
		C5403	F1J0J2260004	C 22 UF 6.3 V		
		C5404	F1J0J2260004	C 22 UF 6.3 V		
		C5407	F1G1E333A059	C 0.033UF, 25V		
		C5408	F1G1H222A830	C 2200PF, 50V		
		C5411	F1G1H1020008	C 1000PF 50V		
		C5420	F1K1V106A010	C 10UF, 25V		
		C5421	F1K1V106A010	C 10UF, 25V		
		C5422	F1G1C104A077	C 0.1UF 16V		
		C5423	F1J0J2260004	C 22 UF 6.3 V		
		C5424	F1J0J2260004	C 22 UF 6.3 V		
		C5427	F1G1E333A059	C 0.033UF, 25V		
		C5428	F1G1H222A830	C 2200PF, 50V		
		C5431	F1G1H1020008	C 1000PF 50V		
		C5433	F1G1H1020008	C 1000PF 50V		
		C5434	F1K1V106A010	C 10UF, 25V		
		C5435	F1K1V106A010	C 10UF, 25V		
		C5436	F1K1V106A010	C 10UF, 25V		
		C5437	F1K1V106A010	C 10UF, 25V		
		C5438	F1K1V106A010	C 10UF, 25V		
		C5439	F1K1V106A010	C 10UF, 25V		
		C5441	F1G1C183A146	C 0.018UF, 16V		
		C5443	F1G1H472A830	C 4700PF, 50V		
		C5444	F1G1C104A077	C 0.1UF 16V		
		C5710	F1J1A106A087	C 10UF, 10V		
		C5711	F1J1A106A087	C 10UF, 10V		
		C5724	F1G1H1020008	C 1000PF 50V		
		C5725	F1G1H1020008	C 1000PF 50V		
		C6704	F1J1A106A087	C 10UF, 10V		
		C6707	F1G1C104A077	C 0.1UF 16V		
		C6708	F1J1A106A087	C 10UF, 10V		
		C6710	F1G1C104A077	C 0.1UF 16V		
		C6720	F1G1H220A834	C 22PF, 50V		
		C6721	F1G1H220A834	C 22PF, 50V		
		C6722	F1G1C104A077	C 0.1UF 16V		
		C6723	F1G1H220A834	C 22PF, 50V		
		C6724	F1G1H220A834	C 22PF, 50V		
		C6736	F1G1H101A834	C 100PF 50V		
		C6737	F1G1H101A834	C 100PF 50V		
		C6746	F1G1C104A077	C 0.1UF 16V		
		C6778	F1G1C104A077	C 0.1UF 16V		
		C6779	F1G1C104A077	C 0.1UF 16V		
	⚠	C7101	F0CAF1040016	C 0.1UF , 240V		
	⚠	C7102	F0CAF1040016	C 0.1UF , 240V		
	⚠	C7103	F1AAF471A019	C 470PF, 240V		
	⚠	C7104	F1AAF471A019	C 470PF, 240V		
		C7128	F1H1H103B047	C 0.01UF, 50V		
		C7301A	F2A2W6800013	C 68UF 450V		
		C7306	F1B3D101A099	C 220PF 2kV		
		C7307	F1B3D101A099	C 100PF 2kV		
		C7310	F1H1H103B047	C 0.01UF, 50V		
		C7311	F1H1H102B052	C 1000PF 50V		
		C7312	F1J1H105A945	C 1UF 50V		
		C7313	F2A1V470B763	C 47UF 35V		

Model No. : TH-L32B6R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C7314	F1H1H102B052	C 1000PF 50V		
		C7315	F1AAF102A020	C 1000PF 240V		
		C7401	F1H1H104B047	C 0.1UF, 50V		
		C7402	F1H1H104B047	C 0.1UF, 50V		
		C7501	F1A3A471A060	C 470PF 1KV		
		C7502	EEUFR1V102PY	C 1000UF 35V		
		C7503	F1H1H104B047	C 0.1UF, 50V		
		C7505	F1H1E105A144	C 1 uF 25 V		
		C7506	F1JZZ1060001	C 10UF, 20V		
		C7508	F1K1E106A134	C 10UF, 25V		
		C7509	F1J1E225A178	C 2.2UF 25V		
		C7510	F1A3A102A060	C 1000PF 1KV		
		C7513	EEUFR1E102PY	C 1000UF 35V		
		C7520	F1J1E105A287	C 1UF, 25V		
		C7521	F1J1E105A287	C 1UF, 25V		
		C7523	F1H1H104B047	C 0.1UF, 50V		
		C7531	F1H1H104B047	C 0.1UF, 50V		
		C7532	F1H1H104B047	C 0.1UF, 50V		
		C8001	F1G1C104A077	C 0.1UF 16V		
		C8006	F1G1C104A077	C 0.1UF 16V		
		C8010	F1G1C104A077	C 0.1UF 16V		
		C8012	F1G1C104A077	C 0.1UF 16V		
		C8013	F1G1C104A077	C 0.1UF 16V		
		C8016	F1G1C104A077	C 0.1UF 16V		
		C8018	F1G1A105A047	C 1UF 10V		
		C8027	F1G1C104A077	C 0.1UF 16V		
		C8028	F1G1C104A077	C 0.1UF 16V		
		C8031	F1J1A106A087	C 10UF, 10V		
		C8032	F1G1C104A077	C 0.1UF 16V		
		C8034	F1J1A106A087	C 10UF, 10V		
		C8037	F1J1A106A087	C 10UF, 10V		
		C8039	F1G1C104A077	C 0.1UF 16V		
		C8042	F1G1C104A077	C 0.1UF 16V		
		C8044	F1G1C104A077	C 0.1UF 16V		
		C8045	F1G1A105A047	C 1UF 10V		
		C8052	F1J0G2260001	C 22 UF 4 V		
		C8054	F1G1C104A077	C 0.1UF 16V		
		C8055	F1G1A105A047	C 1UF 10V		
		C8057	F1G1C104A077	C 0.1UF 16V		
		C8059	F1G1C104A077	C 0.1UF 16V		
		C8068	F1G1C104A077	C 0.1UF 16V		
		C8071	F1G1C104A077	C 0.1UF 16V		
		C8072	F1G1C104A077	C 0.1UF 16V		
		C8074	F1G1A105A047	C 1UF 10V		
		C8076	F1H1A105A099	C 1UF, 10V		
		C8100	F1K1V106A010	C 10UF, 25V		
		C8102	F1G1C104A077	C 0.1UF 16V		
		C8103	F1G1C473A048	C 0.047UF, 16V		
		C8105	F1G1E332A144	C 3300PF, 25V		
		C8107	F1J0G2260001	C 22 UF 4 V		
		C8108	F1J0G2260001	C 22 UF 4 V		
		C8109	F1G1E472A144	C 4700pF 25V		
		C8110	F1H1C105A145	C 1 uF 16 V		
		C8111	F1G1C104A077	C 0.1UF 16V		
		C8112	F1K1V106A010	C 10UF, 25V		
		C8114	F1J0G2260001	C 22 UF 4 V		
		C8119	F1G1H471A830	C 470PF, 50V		
		C8203	F1G1C104A077	C 0.1UF 16V		
		C8204	F1G1C104A077	C 0.1UF 16V		
		C8205	F1G1C104A077	C 0.1UF 16V		
		C8206	F1G1C104A077	C 0.1UF 16V		
		C8207	F1J1A106A087	C 10UF, 10V		

Model No. : TH-L32B6R Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C8208	F1G1C104A077	C 0.1UF 16V		
		C8210	F1G1C104A077	C 0.1UF 16V		
		C8212	F1G1C104A077	C 0.1UF 16V		
		C8214	F1G1C104A077	C 0.1UF 16V		
		C8218	F1G1C104A077	C 0.1UF 16V		
		C8220	F1G1C104A077	C 0.1UF 16V		
		C8221	F1G1C104A077	C 0.1UF 16V		
		C8224	F1G1C104A077	C 0.1UF 16V		
		C8229	F1G1A105A047	C 1UF 10V		
		C8230	F1G1C104A077	C 0.1UF 16V		
		C8231	F1G1C104A077	C 0.1UF 16V		
		C8232	F1G1C104A077	C 0.1UF 16V		
		C8300	F1G1H100A834	C 10PF 50V		
		C8301	F1G1H120A834	C 12PF, 50V		
		C8307	F1G1A105A047	C 1UF 10V		
		C8308	F1G1A105A047	C 1UF 10V		
		C8312	F1G1A105A047	C 1UF 10V		
		C8313	F1G1A105A047	C 1UF 10V		
		C8314	F1G1A105A047	C 1UF 10V		
		C8315	F1G1A105A047	C 1UF 10V		
		C8461	F1J1A106A087	C 10UF, 10V		
		C8463	F1G1C104A077	C 0.1UF 16V		
		C8467	F1J1A106A087	C 10UF, 10V		
		C8470	F1G1C104A077	C 0.1UF 16V		
		C8700	F1H1A105A099	C 1UF, 10V		
		C8850	F1G1E103A059	C 0.01UF 25V		
		C8900	F1G1C104A077	C 0.1UF 16V		
		C8901	F1G1C104A077	C 0.1UF 16V		
		C8903	F1G1A105A047	C 1UF 10V		
DIODES						
		D3006	K7AAAY000016	DIODE		
		D3101	DZ2J140M0L	DIODE		
		D3102	DZ2J140M0L	DIODE		
		D3103	DZ2J140M0L	DIODE		
		D3104	DZ2J140M0L	DIODE		
		D3105	DZ2J140M0L	DIODE		
		D3106	DZ2J140M0L	DIODE		
		D3107	DZ2J140M0L	DIODE		
		D3110	DZ2J140M0L	DIODE		
		D4704	DB2J30900L	DIODE		
		D4719	DA2J10100L	DIODE		
		D4770	DA2J10100L	DIODE		
		D4785	DB2J30900L	DIODE		
		D5172	DZ2J220M0L	DIODE		
		D5173	DA2J10100L	DIODE		
		D5178	DZ2J068M0L	DIODE		
		D5179	B0ADCK000001	DIODE		
		D5180	DZ2J033M0L	DIODE		
		D5187	DZ2J047M0L	DIODE		
		D5191	B0ADCK000001	DIODE		
		D5192	B0ADCK000001	DIODE		
		D5193	B0ADCK000001	DIODE		
		D5194	DA2J10100L	DIODE		
		D5195	DZ2J027M0L	DIODE		
		D7101	D4EAY621A134	DIODE		
		D7102	B0EBNT000030	DIODE		
		D7104	DA2J10100L	DIODE		
		D7301	B0HAGQ000001	DIODE		
		D7303	B0BC01500025	DIODE		
		D7306	B0BB140A0011	DIODE		
		D7307	DZ2J068M0L	DIODE		
		D7313	B0JCDE000006	DIODE		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		D7316	B0JCDE000006	DIODE		
		D7317	DA2JF2300L	DIODE		
		D7320	B0JAME000126	DIODE		
		D7323	B0JCDE000006	DIODE		
		D7403	EZJZ1V800AA	VARISTOR		
		D7404	EZJZ1V800AA	VARISTOR		
		D7502	B0FBCM000016	DIODE		
		D7507	B0JDSL000013	DIODE		
		D7508	B0JDSL000013	DIODE		
		D7520	DA2J10100L	DIODE		
		D8000	DA2J10100L	DIODE		
		D8850	DB2J30900L	DIODE		
INTEGRATED CIRCUITS						
		IC3052	C0ABBB000179	IC		
		IC4900	C1AB00003984	IC		
		IC5000	AN34043AAVF	IC		
		IC5400	C0DBAYY01299	IC		
		IC5420	C0DBAYY01299	IC		
		IC5421	C0DBAYY01300	IC		
		IC5704	C0DBEYY00102	IC		
		IC7301	C0DBBY000065	IC		
		IC7501	C0DBZYY00545	IC		
		IC7502	C0DBEYY00146	IC		
		IC8000	MN2WS0270PB	IC		
		IC8001	C0DBGYY00887	IC		
		IC8100	C0DBAYY01644	IC		
		IC8101	C0DBAYY01645	IC		
		IC8200	C3ABTY000091	IC		
		IC8201	C3ABTY000091	IC		
		IC8454	C0DBZYY00541	IC		
		IC8900	TVR4G264-AA	ROM IC (C3FBTY000035)		
COILS						
		L3111	J0JYC0000156	INDUCTOR		
		L3112	J0JYC0000156	INDUCTOR		
		L3113	J0JYC0000156	INDUCTOR		
		L3116	J0JYC0000156	INDUCTOR		
		L3119	J0JYC0000156	INDUCTOR		
		L3120	J0JYC0000156	INDUCTOR		
		L4051	J0ZZB0000147	COIL		
		L4052	J0ZZB0000147	COIL		
		L4053	J0ZZB0000147	COIL		
		L4901	G1C220MA0533	INDUCTOR		
		L4902	G1C220MA0533	INDUCTOR		
		L4903	G1C220MA0533	INDUCTOR		
		L4904	G1C220MA0533	INDUCTOR		
		L5400	G1C4R7ZA0311	INDUCTOR		
		L5420	G1C6R8MA0533	INDUCTOR		
		L5421	G1C220MA0445	INDUCTOR		
		L6704	J0JYC0000464	BEAD CORE		
		L6706	J0JYC0000464	BEAD CORE		
		L7101	J0JKB0000034	EMI FILTER		
		L7102	J0JKB0000034	EMI FILTER		
		L7110	J0JKA0000024	EMI FILTER		
		L7301	J0JKA0000038	BEAD CORE		
		L7304	J0JKB0000034	EMI FILTER		
		L7313	J0JKA0000038	BEAD CORE		
		L7314	J0JKA0000038	BEAD CORE		
		L7501	J0JKA0000038	BEAD CORE		
		L8001	J0JCC0000287	COIL		
		L8009	J0JYC0000464	BEAD CORE		
		L8013	J0JYC0000464	BEAD CORE		
		L8014	J0JCC0000287	COIL		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L8100	G1C3R3MA0464	INDUCTOR		
		L8101	G1C2R2ZA0311	INDUCTOR		
TRANSISTORS						
		Q2012	B1ABCE000015	TRANSISTOR		
		Q2013	B1ABCE000015	TRANSISTOR		
		Q3102	B1ABCE000015	TRANSISTOR		
		Q3103	B1ABCE000015	TRANSISTOR		
		Q4702	B1ABCF000231	TRANSISTOR		
		Q4709	B1ABCF000231	TRANSISTOR		
		Q4981	B1ABCE000015	TRANSISTOR		
		Q7301	B1CERR000067	TRANSISTOR		
		Q7302	B1ABBE000003	TRANSISTOR		
		Q7501	B1CHRE000015	TRANSISTOR		
		Q7502	B1CHRE000015	TRANSISTOR		
		Q7505	B1ABBE000003	TRANSISTOR		
		Q7510	B1ABBE000003	TRANSISTOR		
RESISTORS						
		R0903	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0904	D0GA473JA039	M 47KOHM J. 1/10W		
		R0905	D0GA101JA039	M 100OHM,J.1/10W		
		R0906	D0GA101JA039	M 100OHM,J.1/10W		
		R0907	D0GA101JA039	M 100OHM,J.1/10W		
		R0910	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0911	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0912	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0913	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0914	D0GA101JA039	M 100OHM,J.1/10W		
		R0915	D0GA101JA039	M 100OHM,J.1/10W		
		R0916	D0GA101JA039	M 100OHM,J.1/10W		
		R0917	D0GA101JA039	M 100OHM,J.1/10W		
		R0932	D0GA220JA023	M22 OHM, J.1/16 W		
		R0933	D0GA220JA023	M22 OHM, J.1/16 W		
		R0936	D0GA220JA023	M22 OHM, J.1/16 W		
		R0937	D0GA220JA023	M22 OHM, J.1/16 W		
		R0938	D0GA101JA039	M 100OHM,J.1/10W		
		R0940	D0GA101JA039	M 100OHM,J.1/10W		
		R0946	D0GA101JA039	M 100OHM,J.1/10W		
		R0948	D0GA101JA039	M 100OHM,J.1/10W		
		R0951	D0GA101JA039	M 100OHM,J.1/10W		
		R0952	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R0953	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0954	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0955	D0GA272JA023	M 2.7KOHM, J.1/16W		
		R0956	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R0957	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R1951	D0GA680JA023	M 68 OHM, J,1/16W		
		R1953	D0GA103JA039	M 10KOHM,F,1/16W		
		R2000	D0GA154JA023	M 150KOHM J 1/16W		
		R2003	D0GAR00J0005	M 0 OHM, 1/16W		
		R2008	D0GA473JA039	M 47KOHM J. 1/10W		
		R2010	D0GDR00J0004	M 0 OHM, 1/8W		
		R2013	D0GA101JA039	M 100OHM,J.1/10W		
		R2014	D0GA101JA039	M 100OHM,J.1/10W		
		R2016	D0GA302JA023	M 3K OHM J ,1/16W		
		R2051	D0GA101JA039	M 100OHM,J.1/10W		
		R2056	D0GAR00J0005	M 0 OHM, 1/16W		
		R2058	D0GA473JA039	M 47KOHM J. 1/10W		
		R2059	D0GA103JA039	M 10KOHM,F,1/16W		
		R2060	D0GA473JA039	M 47KOHM J. 1/10W		
		R2061	D0GA223JA023	M 22K OHM J 1/16W		
		R2062	D0GA101JA039	M 100OHM,J.1/10W		
		R2803	D0GAR00J0005	M 0 OHM, 1/16W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R2820	D0GA470JA023	M 47 OHM, J,1/16W		
		R2821	D0GAR00J0005	M 0 OHM, 1/16W		
		R2823	D1BA1821A023	M 1.82KOHM, 1/16W		
		R2824	D1BA6800A023	M 680OHM, 1/16W		
		R3117	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R3118	D0GA473JA039	M 47KOHM J. 1/10W		
		R3121	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3132	D0GB103JA065	M 10K OHM J 1/10W		
		R3142	D1BD75R00003	M 75OHM J 1/10W		
		R3157	D1HY2204A012	NETWORK RESISTER		
		R3163	D0GA104JA039	M 100KOHM,J.1/10W		
		R3164	D0GA104JA039	M 100KOHM,J.1/10W		
		R3167	D0GA333JA023	M 33KOHM,J,1/16W		
		R3168	D0GA333JA023	M 33KOHM,J,1/16W		
		R3171	D0GA101JA039	M 100OHM,J.1/10W		
		R3172	D0GA101JA039	M 100OHM,J.1/10W		
		R3173	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3179	D0GA331JA023	M 330 OHM, J,1/16W		
		R3180	D0GA331JA023	M 330 OHM, J,1/16W		
		R3181	D1BD75R00003	M 75OHM J 1/10W		
		R3182	D1BD75R00003	M 75OHM J 1/10W		
		R3183	D1BD75R00003	M 75OHM J 1/10W		
		R3184	D0GA333JA023	M 33KOHM,J,1/16W		
		R3185	D0GA333JA023	M 33KOHM,J,1/16W		
		R3188	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3189	D0GB104ZA041	M 100KOHM,J.1/10W		
		R3194	D0GA220JA023	M22 OHM, J.1/16 W		
		R3201	D0GA101JA039	M 100OHM,J.1/10W		
		R3231	D0GB103JA065	M 10K OHM J 1/10W		
		R3233	D0GB203ZA038	M 20KOHM 1/10W		
		R3234	D0GB203ZA038	M 20KOHM 1/10W		
		R3237	D0GB473JA065	M 47KOHM J. 1/10W		
		R3238	D0GB473JA065	M 47KOHM J. 1/10W		
		R4085	D0GDR00J0004	M 0 OHM, 1/8W		
		R4715	D0GA103JA039	M 10KOHM,F,1/16W		
		R4721	D0GA103JA039	M 10KOHM,F,1/16W		
		R4722	D0GA103JA039	M 10KOHM,F,1/16W		
		R4723	D0GA473JA039	M 47KOHM J. 1/10W		
		R4724	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R4725	D0GA473JA039	M 47KOHM J. 1/10W		
		R4731	D0GA103JA039	M 10KOHM,F,1/16W		
		R4739	D0GA220JA023	M22 OHM, J.1/16 W		
		R4748	D0GA680JA023	M 68 OHM, J,1/16W		
		R4749	D0GA680JA023	M 68 OHM, J,1/16W		
		R4750	D0GA680JA023	M 68 OHM, J,1/16W		
		R4751	D0GA680JA023	M 68 OHM, J,1/16W		
		R4752	D1BA1600A023	M 160 OHM,F.1/16 W		
		R4753	D1BA82R0A023	M 82OHM , 1/16W		
		R4764	D0GA473JA039	M 47KOHM J. 1/10W		
		R4766	D0GA473JA039	M 47KOHM J. 1/10W		
		R4788	D0GA103JA039	M 10KOHM,F,1/16W		
		R4794	D0GA103JA039	M 10KOHM,F,1/16W		
		R4795	D0GA103JA039	M 10KOHM,F,1/16W		
		R4796	D0GA473JA039	M 47KOHM J. 1/10W		
		R4797	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R4798	D0GA473JA039	M 47KOHM J. 1/10W		
		R4799	D0GA273JA023	M 27K OHM J ,1/16W		
		R4800	D0GA473JA039	M 47KOHM J. 1/10W		
		R4801	D0GA473JA039	M 47KOHM J. 1/10W		
		R4802	D0GBR00J0004	M 0 OHM J 1/10W		
		R4900	D0GFR00J0005	M 0 OHM,J,1/3W		
		R4901	D1HY6804A012	NETWORK RESISTER		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4906	D0GA103JA039	M 10KOHM,F,1/16W		
		R4907	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R4908	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R4917	D0GAR00J0005	M 0 OHM, 1/16W		
		R4918	D0GAR00J0005	M 0 OHM, 1/16W		
		R4919	D0GAR00J0005	M 0 OHM, 1/16W		
		R4955	D0GA103JA039	M 10KOHM,F,1/16W		
		R4956	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R4958	D0GA103JA039	M 10KOHM,F,1/16W		
		R4980	D0GB332JA065	M 3.3KOHM,J,1/10W		
		R4981	D0GA103JA039	M 10KOHM,F,1/16W		
		R4982	D0GA473JA039	M 47KOHM J. 1/10W		
		R4984	D0GDR00J0004	M 0 OHM, 1/8W		
		R4985	D0GDR00J0004	M 0 OHM, 1/8W		
		R4986	D0GDR00J0004	M 0 OHM, 1/8W		
		R4987	D0GDR00J0004	M 0 OHM, 1/8W		
		R5002	D0GA683JA023	M 68KOHM, J,1/16W		
		R5003	D0GA103JA039	M 10KOHM,F,1/16W		
		R5006	D0GA103JA039	M 10KOHM,F,1/16W		
		R5007	D0GA103JA039	M 10KOHM,F,1/16W		
		R5009	D1BA5602A023	M 56KOHM,F. 1/16 W		
		R5012	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5030	D0GA103JA039	M 10KOHM,F,1/16W		
		R5031	D0GAR00J0005	M 0 OHM, 1/16W		
		R5032	D0GAR00J0005	M 0 OHM, 1/16W		
		R5100	D0GA101JA039	M 100OHM,J.1/10W		
		R5101	D0GA473JA039	M 47KOHM J. 1/10W		
		R5102	D0GA473JA039	M 47KOHM J. 1/10W		
		R5104	D0GA103JA039	M 10KOHM,F,1/16W		
		R5152	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R5175	D0GA680JA023	M 68 OHM, J,1/16W		
		R5181	D0GA103JA039	M 10KOHM,F,1/16W		
		R5200	D0GBR00J0004	M 0 OHM J 1/10W		
		R5400	D0GAR00J0005	M 0 OHM, 1/16W		
		R5401	D1BA2202A023	M 22KOHM,F. 1/16 W		
		R5402	D0GB911ZA037	M 910 OHM,1/10W		
		R5403	D1BB2871A106	M 2.87 KOHM,F.1/10 W		
		R5404	D0GD100JA059	M 10 OHM,J,1/4W		
		R5420	D0GAR00J0005	M 0 OHM, 1/16W		
		R5421	D1BA3302A023	M 33KOHM,F. 1/16 W		
		R5422	D0GB911ZA037	M 910 OHM,1/10W		
		R5423	D1BB4871A106	M 4.87 KOHM,F.1/10 W		
		R5424	D0GD100JA059	M 10 OHM,J,1/4W		
		R5426	D0GA220JA023	M22 OHM, J.1/16 W		
		R5427	D0GD100JA059	M 10 OHM,J,1/4W		
		R5428	D0GD272JA052	M 2.7KOHM,J,1/8W		
		R5429	D1BA1402A023	M 14KOHM,F. 1/16 W		
		R5430	D1BA1001A023	M 1 KOHM,F.1/16 W		
		R5431	D0GA473JA039	M 47KOHM J. 1/10W		
		R5432	D1BA2702A023	M 27KOHM,F,1/16W		
		R5712	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R5715	D1BA1200A023	M 120 OHM,F.1/16 W		
		R5716	D1BA56R0A023	M 56 OHM,F.1/16 W		
		R6728	D0GA681JA023	M680 OHM, J,1/16W		
		R6729	D0GA681JA023	M680 OHM, J,1/16W		
		R6734	D1BA1002A023	M 10KOHM,F,1/16W		
		R7101	D0GF105JA048	M 1M OHM. 1/4W		
		R7102	D0GF105JA048	M 1M OHM. 1/4W		
		R7103	D0GF105JA048	M 1M OHM. 1/4W		
		R7104	D0GF105JA048	M 1M OHM. 1/4W		
		R7311	D0GB183JA065	M 18KOHM,J,1/10W		
		R7313	D0GD220JA052	M 22 OHM,J,1/8W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R7314	D0GD681JA059	M 680OHM, 1/16W		
		R7315	D0C1R33JA104	M 0.33OH ,J, 1W		
		R7317	D0GD680JA052	M 68 OHM,J,1/8W		
		R7318	D0GD471JA052	M 470 OHM,J,1/8W		
		R7319	D0GB393JA065	M 39K OHM J 1/10W		
		R7320	D0GB152JA065	M 1.5KOHM ,J, 1/16W		
		R7322	D0GB752JA065	M 7.5KOHM J 1/10W		
		R7325	D0GD4R7JA059	M 4.7 OHM,J,1/4W		
		R7329	D0GDR00J0004	M 0 OHM, 1/8W		
		R7335	D0B1106JA033	M 10MOHM J 1W		
		R7342	D0GD182JA052	M 1.8KOHM, J, 1/8W		
		R7343	D0GD182JA052	M 1.8KOHM, J, 1/8W		
		R7344	D0GD182JA052	M 1.8KOHM, J, 1/8W		
		R7346	D0GDR00J0004	M 0 OHM, 1/8W		
		R7402	D1BB1911A073	M 1.91KOHM, 1/16W		
		R7403	D1BB3091A073	M 3.09KOHM, 1/16W		
		R7404	D1BB6041A073	M 6.04KOHM, 1/16W		
		R7405	D1BB1692A073	M 16.9 OHM,.1/16 W		
		R7501	D0GD473JA052	M 47KOHM,J,1/8W		
		R7502	D0GD134JA052	M 130KOHM,J,1/8W		
		R7503	D0GB153JA065	M 15K OHM J 1/10W		
		R7504	D0GB153JA065	M 15K OHM J 1/10W		
		R7507	D0GB683JA065	M 68KOHM J 1/10W		
		R7508	D0GD752JA052	M 7.5KOHM J 1/10W		
		R7509	D0GD752JA052	M 7.5KOHM J 1/10W		
		R7511	D0GD103JA052	M 10KOHM,J,1/8W		
		R7512	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R7513	D0GD752JA052	M 7.5KOHM J 1/10W		
		R7514	D0GD752JA052	M 7.5KOHM J 1/10W		
		R7515	D0GB183JA065	M 18KOHM,J,1/10W		
		R7516	D0GD472JA052	M 4.7KOHM,J,1/8W		
		R7517	D0GB222JA065	M 2.2KOHM,J,1/10W		
		R7519	D0GB562ZA038	M 5.6KOHM, 1/6W		
		R7520	D0GB332ZA038	M 3.3KOHM , 1/16W		
		R7521	D0GB123ZA038	M 12KOHM, 1/10W		
		R7523	D0GD473JA052	M 47KOHM,J,1/8W		
		R7524	D0GD103JA052	M 10KOHM,J,1/8W		
		R7525	D0GB472JA065	M 4.7KOHM, J,1/10W		
		R7526	D0GB103JA065	M 10K OHM J 1/10W		
		R7527	D0GDR00J0004	M 0 OHM, 1/8W		
		R7531	D0GDR00J0004	M 0 OHM, 1/8W		
		R7532	D0GB821ZA037	M 82OHM , 1/16W		
		R7540	D0GD184JA052	M 180KOHM,J,1/8W		
		R7541	D0GB164JA065	M 160KOHM,J.1/16 W		
		R8005	D0GA1R1JA023	M 1.1OHM, J,1/16W		
		R8010	D0GA511JA023	M510 OHM, J,1/16W		
		R8011	D0GA104JA039	M 100KOHM,J.1/10W		
		R8101	D1BA4701A023	M 4.7KOHM,F 1/16 W		
		R8102	D1BB2002A195	M 20KOHM,A , 1/16W		
		R8103	D1BB1802A195	M 180KOHM,A,1/8W		
		R8200	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8203	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8204	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8205	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8206	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8207	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8208	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8217	D0GA221JA023	M220 OHM, J.1/16 W		
		R8218	D0GA221JA023	M220 OHM, J.1/16 W		
		R8219	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8220	D1BA2400A023	M 240 OHM,F.1/16 W		
		R8230	D1BA2700A023	M 270 OHM,F.1/16 W		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R8231	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8232	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8233	D1BA2700A023	M 270 OHM,F.1/16 W		
		R8234	D0GA220JA023	M22 OHM, J.1/16 W		
		R8236	D0GA220JA023	M22 OHM, J.1/16 W		
		R8240	D1HY2204A012	NETWORK RESISTER		
		R8241	D1HY2204A012	NETWORK RESISTER		
		R8242	D1HY2204A012	NETWORK RESISTER		
		R8243	D1HY2204A012	NETWORK RESISTER		
		R8244	D1HY2204A012	NETWORK RESISTER		
		R8245	D0GA220JA023	M22 OHM, J.1/16 W		
		R8246	D0GA220JA023	M22 OHM, J.1/16 W		
		R8300	D0GA331JA023	M 330 OHM, J,1/16W		
		R8301	D0GA360JA023	M 36 OHM, J,1/16W		
		R8302	D0GA360JA023	M 36 OHM, J,1/16W		
		R8303	D1BA6201A023	M 6.2 KOHM,F.1/16 W		
		R8305	D1BA2491A023	M 2.49KOHM,F,1/16W		
		R8306	D0GA360JA023	M 36 OHM, J,1/16W		
		R8307	D0GA360JA023	M 36 OHM, J,1/16W		
		R8450	D0GA103JA039	M 10KOHM,F,1/16W		
		R8451	D0GA103JA039	M 10KOHM,F,1/16W		
		R8455	D0GA103JA039	M 10KOHM,F,1/16W		
		R8458	D1BA3742A023	M 37.4 KOHM,F.1/16 W		
		R8469	D0GA103JA039	M 10KOHM,F,1/16W		
		R8666	D1HY1038A012	NETWORK RESISTER		
		R8800	D0GA103JA039	M 10KOHM,F,1/16W		
		R8803	D0GA103JA039	M 10KOHM,F,1/16W		
		R8807	D0GA102JA039	M 10KOHM,F,1/16W		
		R8816	D0GA103JA039	M 10KOHM,F,1/16W		
		R8818	D0GA103JA039	M 10KOHM,F,1/16W		
		R8819	D0GA103JA039	M 10KOHM,F,1/16W		
		R8820	D0GA103JA039	M 10KOHM,F,1/16W		
		R8830	D0GA103JA039	M 10KOHM,F,1/16W		
		R8850	D0GA331JA023	M 330 OHM, J,1/16W		
		R8851	D1BB7151A106	M 7.15 KOHM,F.1/10 W		
		R8852	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R8853	D0GA182JA023	M 1.8KOHM, J,0.063W		
		R8858	D0GA103JA039	M 10KOHM,F,1/16W		
		R8870	D0GA103JA039	M 10KOHM,F,1/16W		
		R8878	D0GA103JA039	M 10KOHM,F,1/16W		
		R8880	D0GA103JA039	M 10KOHM,F,1/16W		
		R8881	D0GA103JA039	M 10KOHM,F,1/16W		
		R8883	D0GA103JA039	M 10KOHM,F,1/16W		
		R8884	D0GA103JA039	M 10KOHM,F,1/16W		
		R8885	D0GA103JA039	M 10KOHM,F,1/16W		
		R8886	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R8909	D0GA222JA023	M 2.2KOHM, J,1/16W		
		R8910	D0GA103JA039	M 10KOHM,F,1/16W		
		R8911	EXB2HV121JV	M 120 OHM,F,1/16 W		
		R8924	D0GA102JA039	M 1KOHM ,J, 1/10W		
		R8926	D0GA332JA023	M 3.3KOHM, J,1/16W		
		R8967	D0GA473JA039	M 47KOHM J. 1/10W		
TRANSFORMERS						
		T7301A	G4DYA0000460	TRANSFORMER		
OTHERS						
		A02	K1KY16BA0394	CONNECTOR		
		A10	K1KY07AA0719	CONNECTOR		
		A12	K1KY04BA0387	CONNECTOR		
		A16	K1KY30BA0275	CONNECTOR		
		CF7102	D4CA94R0A001	TERMISTOR		
		CN0100	K1KA14A00248	CONNECTOR		
		D2802	B3AGB0000060	LED		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		F7101	K5E502YYA162	FUSE		
		JA1	D0GFR00J0005	CHIP RESISTOR		
		JA2	D0GFR00J0005	CHIP RESISTOR		
		JA3	D0GFR00J0005	CHIP RESISTOR		
		JA4	D0GFR00J0005	CHIP RESISTOR		
		JA5	D0GFR00J0005	CHIP RESISTOR		
		JA6	D0GFR00J0005	CHIP RESISTOR		
		JA7	D0GFR00J0005	CHIP RESISTOR		
		JA8	D0GFR00J0005	CHIP RESISTOR		
		JA9	D0GFR00J0005	CHIP RESISTOR		
		JK3101	K1U511D00002	AV TERMINAL		
		JK3102	K1U307E00002	AV TERMINAL		
		JK3103	K1U204D00004	AV TERMINAL		
		JK4700	K1FY119D0029	TERMINAL		
		JK4701	K1FY119D0029	TERMINAL		
		JK7101	K2AAYB000010	AC INLET		
		JK8451	K1FY104B0092	TERMINAL		
		JS012	D0GAR00J0005	CHIP RESISTOR		
		JS014	D0GAR00J0005	CHIP RESISTOR		
		K10	K1KY07BA0483	CONNECTOR		
		LF7103A	G0B243G00002	LINE FILTER		
		LF7104A	G0B243G00002	LINE FILTER		
		P2	K1KY14BA0386	CONNECTOR		
		P3	K1KY08BA0402	CONNECTOR		
		PC7300	B3PAA0000629	PHOTO COUPLER		
		PC7301	B3PAA0000629	PHOTO COUPLER		
		RM2800	B3RBB0000018	PHOTO DETECTOR		
		SN2800	B3JB00000208	IC		
		SW7401	EVQ11G05R	SWITCH		
		SW7402	EVQ11G05R	SWITCH		
		SW7403	EVQ11G05R	SWITCH		
		SW7404	EVQ11G05R	SWITCH		
		SW7405	EVQ11G05R	SWITCH		
		SW7406	EVQ11G05R	SWITCH		
		TU6705	J3ACAAC00008	TUNER		
		X8300	H0J250500109	CRYSTAL RESONATOR		
		ZA7102	K4AD01A00004	RUG TERMINAL		
		ZA7104	K4AD01A00004	RUG TERMINAL		

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
Exploded View						
		1	K2CQ2YY00109	AC CORD		
		2	L0EYAA000043	SPEAKER		
		3	L5EDDYY00472	LCD PANEL		
		4	N2QAYB000817	REMOTE TRANSMITTER		
		5	TBL5ZX06921	PEDESTAL ASSY		
		6	TBL5ZX06931	STAND MOULD ASSY		
			TBM4GD2131	MODEL NAME PLATE		
		7	TBX5ZA02201	KEY BUTTON		
		8	TKK5ZC50311	LED PANEL		
		9	TKP5ZA32203	SIDE AV BRACKET		
		10	TPD4GA04411	TOP CUSHION		
		11	TPD4GA04421	BOTTOM CUSHION		
		12	TPE4GH065	SET COVER		
		13	TQZ4GB702	FAN BAG ASSY		
			TSCKF0250001	LVDS FFC		
		14	TTU4GA0892	BACK COVER ASSY		
		15	TTY4GA0319	CABINET ASSY		
		16	TXFPC01WFUR	PACKING CASE ASSY		
			XTB4+18JFJK	PEDESTAL BRAC SCREW		
			XYN4+F25FJK	STAND BRAC SCREW		
Electrical Replacement Part List						
		RTL	TXN/K1WQUJ	K PRINT ASSY		
		RTL	TXN/P1QYUH	P PRINT		
		RTL	TZT/A10WFUR	A PRINT ASSY		