Service Manual 42 inch Class 1080p LED HD TV

Model No. TC-42AS650L

F		

LA51 Chassis

A 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 \triangle 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 Fasten connectors but plug them straight in or unplug them straight out.

1.2. Touch-Current Check

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a measuring network for touch currents 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 Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reserve the AC plug in the AC outlet and repeat each of the above measure.
- 6. The potential at any point (TOUCH CURRENT) shall not exceed 0.5 MIU.
- 7. In case a measurement is out 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.



Input resistance: $\geq 1M\Omega$ Input capacitance: $\leq 200pF$ Frequency range: 15 Hz to 1 MHz and d.c. respectively

 $MIU = U_2 \times 2 (r.m.s. value)$

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

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.
- 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).
- 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)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.



3 Service Navigation

3.1. PCB Layout



Main Device
TUN, DVB-T2 De-Mod, ISDB De-Mod, LD6, LNB.
Power Supply, LED Driver
Control Panel
Remote, LED, Luminance Sensor

4 Specifications

TV

Dimensions (W × H × D)

962 mm × 608 mm × 202 mm (With Pedestal) 962 mm × 562 mm × 54 mm (TV only)

Mass

11.0 kg Net (With Pedestal) 10.0 kg Net (TV only)

Power source

AC 110-220 V, 50 / 60 Hz

Rated power consumption

97 W

Standby power consumption

0.2 W

Visible screen size (diagonal)

106 cm

Display resolution

1 920 (W) × 1 080 (H)

Panel System

Panel (with LED backlight)

Speaker output

20 W (10 W + 10 W)

Connection terminals

AV IN (COMPONENT / VIDEO) VIDEO RCA PIN Type × 1 1.0 V[p-p] (75) AUDIO L - R RCA PIN Type × 2 0.5 V[rms]

Υ

1.0 V[p-p] (including synchronisation) PB/CB, PR/CR ±0.35 V[p-p]

HDMI 1 / 2 / 3 input TYPE A Connectors HDMI1 / 3: 3D, Content Type, Deep Colour HDMI2: 3D, Content Type, Audio Return Channel, Deep Colour This TV supports "HDAVI Control 5" function.

Card slot

SD Card slot × 1

ETHERNET

10BASE-T / 100BASE-TX

USB 1 / 2

DC 5 V, Max. 500 mA [Hi-Speed USB (USB 2.0)]

DIGITAL AUDIO OUT

PCM / Dolby Digital / DTS, Fibre optic

Receiving systems / Band name

```
Digital TV
```

6 MHz VHF / UHF free-to-air TV broadcast reception for Chile / Peru

PAL-M

PAL-N

NTSC

Reception of broadcast transmissions and Playback from VCR or DVD

Receiving channels (Analogue TV)

 VHF BAND
 2-13 (NTSC M USA)

 UHF BAND
 14-69 (NTSC M USA)

 CATV
 1-125 (USA

 CATV
 1-125 (USA

Aerial input

VHF / UHF

Operating conditions

Temperature 0 °C - 35 °C Humidity 20 % - 80 % RH (non-condensing)

Built-in wireless LAN

Standard compliance and Frequency range *1 IEEE802.11a/n 5.15 GHz - 5.35 GHz, 5.47 GHz - 5.85 GHz IEEE802.11b/g/n 2.400 GHz - 2.4835 GHz Security WPA2-PSK (TKIP/AES) WPA-PSK (TKIP/AES) WEP (64 bit/128 bit)

Bluetooth wireless technology *2

Standard ComplianceBluetooth 3.0Frequency Range2.402 GHz - 2.480 GHz

*1: The frequency and channel differ depending on the country.

*2: Not all the Bluetooth compatible devices are available with this TV. Up to 5 devices can be used simultaneously (except Touch Pad Controller).

3D Eyewear

Dimensions (W × H × D) 165 mm × 38 mm × 166 mm

Mass

Approx. 18 g

Usage temperature range 0 °C - 40 °C

Materials

Main body / Lens section Resin

Use Panasonic 3D Eyewear supporting passive 3D system technology.

Note

Touch Pad Controller uses Bluetooth wireless technology. Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

For the information of the open source software, refer to [eHELP] (Support > Licence).

5 Technical Descriptions

5.1. Specification of KEY for HDCP2.0, Widevine, Mac and DIMORA-ID

5.1.1. General information:

- 1. eMMC Memory (IC8903) for spare parts has the seed of KEY for each.
- 2. The final KEY data will be generated by Main IC (IC8000) when SELF CHECK was done and are stored in both Main IC (IC8000) and eMMC (IC8903).

5.1.2. Replacement of ICs:

When Main IC is replaced, eMMC Memory (IC8903) should be also replaced with new one the same time.

When eMMC Memory is replaced, Main IC is not necessary to be replaced the same time.

After the replacement of IC, SELF CHECK should be done to generate the final KEY data.

How to SELF CHECK: While pressing [VOLUME (-)] button on the main unit, press [MENU] button on the remote control for more than 3 seconds.

TV will be forced to the factory shipment setting after this SELF CHECK.

6 Service Mode

6.1. How to enter into Service Mode

6.1.1. Purpose/

After exchange parts, check and adjust the contents of adjustment mode.

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



6.1.2. Key command

[1] button...Main items Selection in forward direction

[2] button...Main items Selection in reverse direction

[3] button...Sub items Selection in forward direction

[4] button...Sub items Selection in reverse direction

[VOL] button...Value of sub items change in forward direction (+), in reverse direction (-)

6.1.3. How to exit

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

6.1.4. 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	Remark
ADJUST	CONTRAST	000	
	COLOR	34	
	TINT	00	
	SUB-BRT	800	
	BACKLGT	FFF	
	B-Y-G	40	
	R-Y-A	00	
	V COM	000	
WB-ADJ	R-GAIN	D6	
	G-GAIN	C7	
	B-GAIN	FF	
	R-CENT	89	
V	G-CENT	80	
	B-CENT	AB	
OPTION	Boot	ROM	Factory Preset.
	STBY-SET	00	
	EMERGENCY	ON	
	CLK MODE	01	
	CLOCK	FFF	
	EDID-CLK	HIGH	
SRV-TOOL		00	See next.

6.2. SRV-TOOL

6.2.1. How to access

- 1. Select [SRV-TOOL] in Service Mode.
- 2. Press [OK] button on the remote control.

				_
	SRV-TOOL			
Display of Flash ROM maker code —►	Flash ROM : 98 - DC			POWER ON
Display of SOS History	PTCT: 00 . 00 . 00 . 00	Time 000040:40	Count 0000049	 Press [MUTE

Press [MUTE] button (3 sec)

TIME/COUNT

6.2.2. 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].

6.2.3. POWER ON TIME/COUNT

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

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.

6.2.4. Exit

Disconnect the AC cord from wall outlet or press the [POWER] button on the main unit for 3 seconds to turn off and then turn on automatically.

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

Then, the Hotel mode setup menu is displayed.

Hotel Mode			
Mode	Off		
Input	—		
Channel	—		
Volume			
Vol. Max	100		
OSD Ctrl	Off		
FP Ctrl	Off		
Pow Ctrl	Off		
Select Change			
ORET	URN		

- 3. To exit the Hotel mode setup menu Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.
- 4. Explain the Hotel mode setup menu

Item	Function	
Mode	Select hotel mode On/Off	
Input	Select input signal modes.	
	Set the input, when each time power is	
	switched on.	
	Selection:	
	-,RF,HDMI1,HDMI2,AV	
	 Off: give priority to a last memory. 	
Channel	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.	
Volume	Adjust the volume when each time power is	
	switched on.	
	Range:	
	0 to 100	
Vol. Max	Adjust maximum volume.	
	Range:	
	0 to 100	
OSD Ctrl	Restrict the OSD.	
	Selection:	
	Off/Pattern1	
	Off: No restriction	
	Pattern1: restriction	
FP Ctrl	Select front key conditions.	
	Selection:	
	Off/Pattern1/All	
	Off: altogether valid.	
	Pattern1: only input key is valid.	
	All: altogether invalid.	
Pow Ctrl	Select POWER-On/Off condition when AC	
	power cord is disconnected and then con-	
	nected.	
	UTT: The same condition when AC power	
	cora is aisconnected.	
1	On: Forced power ON condition.	

6.4. Data Copy by USB Memory

Note:

SD card can not be used for Data Copy.

6.4.1. Purpose

(a) Board replacement (Copy the data when exchanging A-board):

When exchanging A-board, the data in original A-board can be copied to USB Memory and then copy to new A-board.



Following data can be copied. User setting data (incl. Hotel mode setting data) Channel scan data Adjustment and factory preset data

(b) Hotel (Copy the data when installing a number of units in hotel or any facility):

When installing a number of units in hotel or any facility, the data in master TV can be copied to USB Memory and then copy to other TVs.



Following data can be copied. User setting data (incl. Hotel mode setting data) Channel scan data

6.4.2. Preparation

Make pwd file as startup file for (a) or (b) in a empty USB Memory.

- 1. Insert a empty USB Memory to your PC.
- 2. Right-click a blank area in a USB Memory window, point to New, and then click text document. A new file is created by default (New Text Document.txt).
- 3. Right-click the new text document that you just created and select rename, and then change the name and extension of the file to the following file name for (a) or (b) and press ENTER.

File name:

- (a) For Board replacement : boardreplace.pwd
- (b) For Hotel : hotel.pwd

Note:

Please make only one file to prevent the operation error.

No any other file should not be in USB Memory.

6.4.3. Data copy from TV set to USB Memory

- 1. Turn on the TV set.
- 2. Insert USB Memory with a startup file (pwd file) to USB terminal.
- On-screen Display will be appeared according to the startup file automatically.
- 3. Input a following password for (a) or (b) by using remote control.
 - (a) For Board replacement : 2770
 - (b) For Hotel : 4850
 - Data will be copied from TV set to USB Memory.
 - It takes around 2 to 6 minutes maximum for copying.
- 4. After the completion of copying to USB Memory, remove USB Memory from TV set.
- 5. Turn off the TV set.

Note:

Following new folder will be created in USB Memory for data from TV set.

- (a) For Board replacement : user_setup
- (b) For Hotel : hotel



6.4.4. Data copy from USB Memory to TV set

- 1. Turn on the TV set.
- 2. Insert USB Memory with Data to USB terminal.
- On-screen Display will be appeared according to the Data folder automatically.
- 3. Input a following password for (a) or (b) by using remote control.
- (a) For Board replacement : 2771
 - (b) For Hotel : 4851
- Data will be copied from USB Memory to TV set.
- 4. After the completion of copying to USB Memory, remove USB Memory from TV set.(a) For Board replacement : Data will be deleted after copying (Limited one copy).
 - (b) For Hotel : Data will not be deleted and can be used for other TVs.
- 5. Turn off the TV set.

Note:

- 1. Depending on the failure of boards, function of Data copy for board replacement does not work.
- 2. This function can be effective among the same model numbers.



7 Troubleshooting Guide

Use the self-check function to test the unit.

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

7.1. Check of the IIC bus lines

7.1.1. How to access

7.1.1.1. 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.

7.1.1.2. 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.

7.1.2. Exit

Disconnect the AC cord from wall outlet or press the [POWER] button on the main unit for 3 seconds to turn off and then turn on automatically.

7.1.3. Screen display

42FHD	SELF CHECK COMPLE	ТЕ
H14TUN OK H90STBY OK H92MEM1 OK H91MEM2 OK H17LAN OK H00FE OK H97ID2 OK H45BT OK H42WiFi OK	PEAKS-SOFT * *** PEAKS-EEP ** ** **** LSI-PACKAGE * *** LSI-RELEASE * ** STBY-SOFT * *** ** STBY-EEP * ***	MODEL ID ** ******** *******

7.1.4. Check Point

Confirm the following parts if NG was displayed.

DISPLAY	Check Ref. No.	Description	Check Point
H14TUN	TU6706	TUNER	A-Board
H90STBY	IC8000	PEAKS LD6	A-Board
H92MEM1	IC8901	STM_EEPROM	A-Board
H91MEM2		EMMC	A-Board
H17LAN	IC8000, JK8600	LAN	A-Board
H00FE		ID	A-Board
H97ID2		ID2	A-Board
H42WiFi	IC8000, IC8601	WiFi	A-Board/ WiFi Dongle

7.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

Blinking Times	Contents	Check point
1	BL_SOS	LCD Panel / P-Board
3	POWER ON	P Board / A-Board
7	SUB_3.3V/1.2V	A-Board
9	SOUND_SOS	A-Board / Speaker
12	BACK END SOS	A-Board
13	EMERGENCY SOS	A-Board

7.3. LCD Panel test mode

Purpose:

To find the possible failure point where in LCD Panel or Printed Circuit Board when the abnormal picture is displayed. **How to Enter:**

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

How to Exit:

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

How to confirm:

If the abnormal picture is displayed, go into LCD Panel test mode to display the several test patterns.

And then, judge by the following method.

Still abnormal picture is displayed: The cause must be in LCD Panel.

Normal picture is displayed: The cause must be in A board.

Remarks:

The test pattern is created by the circuit in LCD Panel.

In LCD Panel test mode, this test pattern is displayed unaffected by signal processing for RF or input signal.

If the normal picture is displayed, LCD Panel must be okay and the cause of failure must be in A board.

8 Disassembly and Assembly Instructions

8.1. Disassembly Flow Chart for the Unit

This is a disassembly chart.

When assembling, perform this chart conversely.



8.2. Disassembly Procedure for the Unit

8.2.1. Pedestal

- 1. Lay down the unit so that the rear cover faces upward.
- 2. Remove the 4 screws (M4x12).
- 3. Remove the pedestal.



8.2.2. Back cover

- 1. Remove the 8 screws (THEC1509).
- 2. Remove the 16 screws (THTD037J).
- 3. Remove the Back cover.



8.2.3. P-Panel

- 1. Disconnect the connectors P2 and P5.
- 2. Remove the 7 screws (THEJ036J).
- 3. Remove the P-Panel.



4. Remove the Barrier 42 S-DLED.



8.2.4. A-Panel

- 1. Disconnect the connectors A02, A10, A12 and WiFi.
- 2. Disconnect the flexible cable A15 and A16.
- 3. Remove the 4 screws (THEJ036J).
- 4. Remove the Side AV bracket.
- 5. Remove the Bottom AV bracket.
- 6. Remove the A-Panel.



8.2.5. Heat sink bottom

- 1. Remove the 7 screws (THEC1509).
 - 2. Remove the Heat sink bottom.



8.2.6. Circuit Units

- 1. Remove the screw (THEJ036J).
- 2. Remove the Circuit units.



8.2.7. WiFi USB Cable

- 1. Remove the screw THEJ036J.
- 2. Remove the WiFi USB cable.



8.2.8. WiFi Metal

- 1. Remove the screw (THEJ036J).
- 2. Remove the WiFi Metal.



8.2.9. GK-Panel

- 1. Disconnect the connector GK4.
- 2. Remove the Control panel.



3. Remove the GK-Panel.



8.2.10. K-Panel

- 1. Remove the K panel preparation.
- 2. Disconnect the connector K10.



- 3. Remove the Led panel.
- 4. Remove the K-Panel.



8.2.11. Bluetooth Dongle

- 1. Remove connector.
- 2. Remove the Bluetooth dongle.



- 3. Remove the screw (THEJ036J).
- 4. Remove the bluetooth bracket.



8.2.12. Bottom Metal

- 1. Remove the 4 screws (THEJ036J).
- 2. Remove the Bottom Metal.



8.2.13. Vesa Metal

- 1. Remove the 4 screws (THEJ036J).
- 2. Remove the Vesa Metal.



8.2.14. LOUDSPEAKER SYSTEMS

- 1. Disconnect the connectors.
- 2. Remove the 2 speakers.



8.2.15. LCD MTG Bottom

1. Remove the LCD MTG Bottom.





8.2.16. SP Bracket

- 1. Remove the 4 screws (THEJ036J).
- 2. Remove the 2 SP Brackets.



8.2.17. Cabinet

1. Remove the 13 screws (THE5ZC009J).



2. Remove the Cabinet.



8.2.18. EMI processing







THERMAL CONDUCTIVE SHEET











9 Measurements and Adjustments

9.1. Voltage chart of A-Board

VOLTAGE	TEST POINT	SPECIFICATION
PNL12V	TP4000/TP4001	12V ± 1.2V
SUB5V	TP8704	5.17V ± 0.25V
SUB3.3V	TP8705	3.39V ± 0.15V
HDMI3.3V	TP8710	3.3V ± 0.17V
SUB_AI_3.3V	TP2206	3.3V ± 0.17V
EU_TU_1.8V	TP5704	1.84V ± 0.1V
SUB1.5V	TP8101	1.52V ± 0.08V
SUB1.1V	TP8100	1.21V ± 0.06V
USB-WiFi	TP8620	5.15V ± 0.20V
USB1	TP8615	5.0V ± 0.25V
USB2	TP8611	5.0V ± 0.25V

9.2. Voltage chart of P-Board

VOLTAGE	TEST POINT	SPECIFICATION
24V	TP7407	23.4V ± 1.2V
16\/	TD7/11	$15.71/\pm0.61/$
100	167411	15.7 V ± 0.0 V
5\/\$	TP7501	$521/ \pm 021/$
505	117501	J.ZV 1 0.ZV
PEC	TP7201/TP7202	390V/ + 15V/ *HOT
110	11 7201/11 7202	350V ± 15V 1101

10 Block Diagram

10.1. Main Block Diagram





10.3. Block (2/2) Diagram



11 Wiring Connection Diagram

11.1. Caution statement.

Caution:

Please confirm that all flexible cables are assembled correctly. Also make sure that they are locked in the connectors. Verify by giving the flexible cables a very slight pull.

11.2. Wiring (1)



WIRE(A12-SPL/SPR)

CABLES	A	В	0	D	
GK4-P5					
A02-P2					
A10-K10/BT			\bigcirc	\bigcirc	
A12-SPL		\bigcirc	lacksquare		
A12-SPR		\bigcirc			
WiFi		\bigcirc			



11.3. Wiring (2)





PET TAPE

110 mm (2 pieces)

WRONG ASSEMBLY





WRONG ASSEMBLY

