

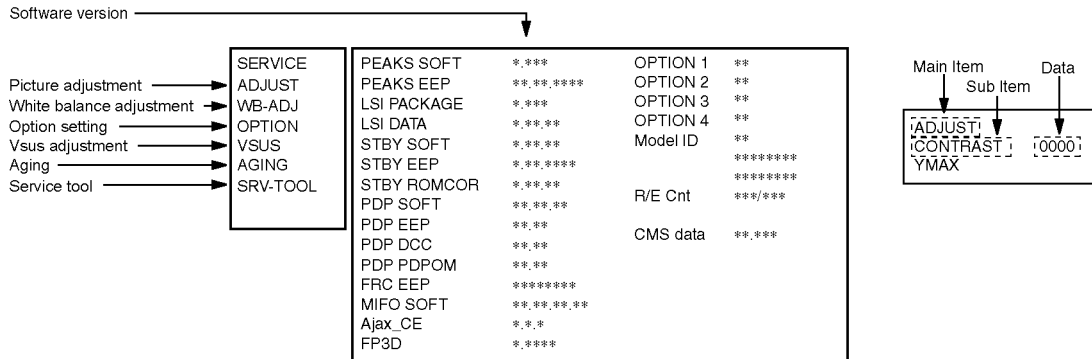
6 Service Mode

6.1. How to enter into Service Mode

While pressing [VOLUME (-)] button of the main unit, press [0] button of the remote control three times within 2 seconds.

Note:

Service Mode can not be entered when 3D signal input.
Input 2D signal to enter Service Mode.



6.1.1. 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
- [RED] button...All Sub items Selection in forward direction
- [GREEN] button...All Sub items Selection in reverse direction
- [VOL] button...Value of sub items change in forward direction (+), in reverse direction (-)

6.1.2. 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 | 23A | |
| | COLOR | 2B | |
| | TINT | 00 | |
| | SUB-BRT | 80C | |
| | H-POS | 0 | |
| | H-AMP | 0 | |
| | V-POS | 0 | |
| | V-AMP | 0 | |
| WB-ADJ | R-CUT | 80 | |
| | G-CUT | 80 | |
| | B-CUT | 80 | |
| | R-DRV | F1 | |
| | G-DRV | FC | |
| | B-DRV | D0 | |
| | ALL-CUT | 80 | |
| | ALL-DRV | FC | |
| OPTION | Panel-Type | 42FHD | Factory Preset |
| | Boot | ROM | |
| | STBY-SET | 00 | |
| | EMERGENCY | ON | |
| | Y/C Delay | 0 | |
| | OPT 1 | 00011100 | |
| | OPT 2 | 11101110 | |
| | OPT 3 | 00000001 | |
| | OPT 4 | 00000000 | |
| | EDID-CLK | HIGH | |
| | MIRROR | 00 (See next) | |
| VSUS | | | |
| AGING | ALL WHITE | | Built-in test patterns can be displayed. |
| | ALL BLUE WITH WHITE OUTSIDE FRAME | | |
| | ALL GREEN | | |
| | ALL RED | | |
| | LOW STEP WHITE | | |
| | LOW STEP BLUE | | |
| | LOW STEP GREEN | | |
| | LOW STEP RED | | |
| | WHITE DIAGONAL STRIPE | | |
| | RED DIAGONAL STRIPE | | |
| | GREEN DIAGONAL STRIPE | | |
| | BLUE DIAGONAL STRIPE | | |
| | A-ZONE & B-ZONE | | |
| | 1% WINDOW | | |
| | COLOR BAR | | |
| | 9 POINTS BRIGHT MEASURE | | |
| | 2 DOT OUTSIDE FRAME | | |
| | ALL BLUE | | |
| | DOUBLE FIXED 1% WINDOW | | |
| | VERTICAL LINE SCROLL | | |
| ON/OFF OR WHITE | | | |
| R/G/B/W ROTATION | | | |
| HALF FIXED ALL WHITE | | | |
| ALL WHITE WITH COUNT DISPLAY | | | |
| SRV-TOOL | | | see next |

| | |
|-------------|-------------|
| Destination | UK |
| Check sum | 95a3 |
| EDID | d3 b6a69686 |

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.

6.2. Option - Mirror

Picture can be reversed left and right or up and down.

00 : Default (Normal picture is displayed)

01 : Picture is reversed left and right.

02 : Picture is reversed up and down.

00



01



02



Hint : If the defective symptom (e.g. Vertical bar or Horizontal bar) is moved by selection of this mirror, the possible cause is in A-board or D-board.

6.3. Service tool mode

6.3.1. How to access

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

| | | | |
|-----------------------------------|-------------------------------|---------------|---|
| | SRV-TOOL | | |
| | | | |
| | | | |
| Display of TD2Microcode version → | TD2Microcode:00610004 | | |
| Display of Flash ROM maker code → | Flash ROM : AD-F1 | | |
| Display of SOS History → | PTCT : 00 . 00 . 00 . 00 . 00 | Time 00000:40 | On/Off 0000022 ← POWER ON TIME/COUNT Press [MUTE] button (3 sec) |
| | | | |

6.3.2. 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 will be cleared by [Self-check indication and forced to factory shipment setting].

6.3.3. POWER ON Time, On/Off

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

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

On/Off : Number of On/Off switching by decimal

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

6.3.4. Exit

1. Disconnect the AC cord from wall outlet or switch off the power with [Power] button on the main unit.

6.4. 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] : AV (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 | 100 |
| Button Lock | Off |
| Remote Lock | Off |
| Private Information | Keep |

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

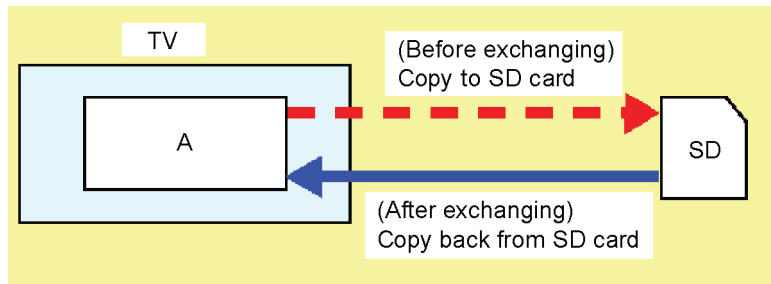
| item | Function |
|---------------------|--|
| Hotel Mode | Select hotel mode ON/OFF |
| Initial INPUT | Select input signal modes. Set the input, when each time power is switched on. Selection : Off/Analog/freesat/DVB/AV1/AV2/AV2S/AV3/ COMPONENT/PC/HDMI1/HDMI2/HDMI3/HDMI4 • Off: give priority to a last memory. However, Euro model is compulsorily set to TV. • AVnS/AVnC: only Euro model selectable • PC: selectable with VGA option |
| Initial POS | Select programme number. Selection : Off/0 to 99 • Off: give priority to a last memory |
| Initial VOL level | Adjust the volume when each time power is switched on. Selection/Range : Off/0 to 100 • Off: give priority to a last memory |
| Maximum VOL level | Adjust maximum volume. Range : 0 to 100 |
| Button lock | Select local key conditions. Selection : Off/SETUP/MENU/ALL • Off: altogether valid • SETUP: only F-key is invalid (Tuning guide (menu) can not be selected.) • MENU: only F-key is invalid (only Volume/Mute can be selected.) • ALL: altogether invalid. |
| Remote lock | Select remote control key conditions. Selection : Off/SETUP/MENU • Off: altogether valid • SETUP: only Setup menu is invalid • MENU: Picture/Sound/Setup menu are invalid |
| Private Information | Select private information for VIERA Cast is Keep or Reset if Hotel mode is set to [On] when TV power on. Selection : Keep/Reset • Keep: private information for VIERA Cast is keep • Reset: private information for VIERA Cast is reset |

6.5. Data Copy by SD Card

6.5.1. Purpose

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

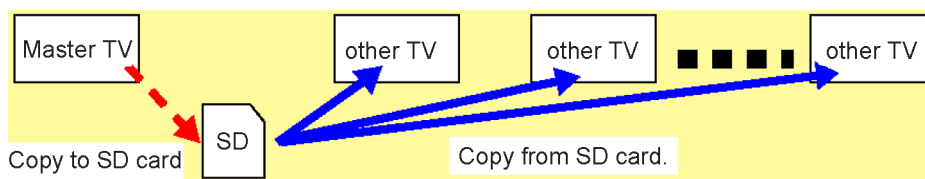
When exchanging A-board, the data in original A-board can be copied to SD card and then copy to new A-board.



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 SD card and then copy to other TVs.



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

6.5.2. Preparation

Make pwd file as startup file for (a) or (b) in a empty SD card.

1. Insert a empty SD card to your PC.
2. Right-click a blank area in a SD card 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 SD card.

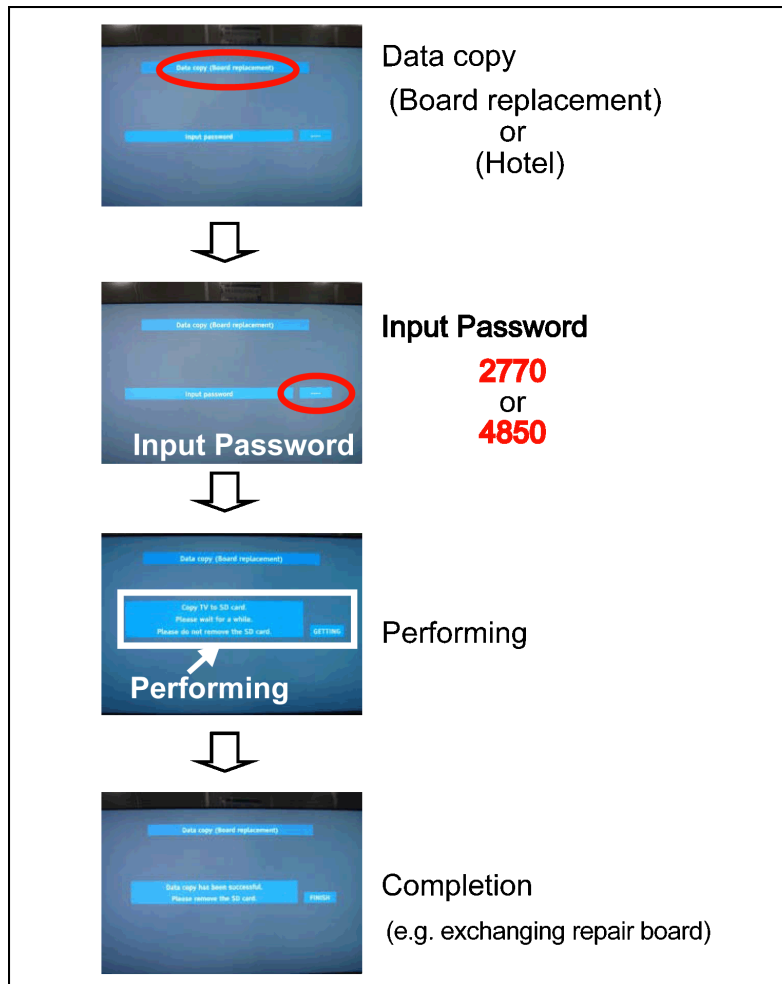
6.5.3. Data copy from TV set to SD Card

1. Turn on the TV set.
2. Insert SD card with a startup file (pwd file) to SD slot.
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 : 4850Data will be copied from TV set to SD card.
It takes around 2 to 6 minutes maximum for copying.
4. After the completion of copying to SD card, remove SD card from TV set.
5. Turn off the TV set.

Note:

Following new folder will be created in SD card for data from TV set.

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

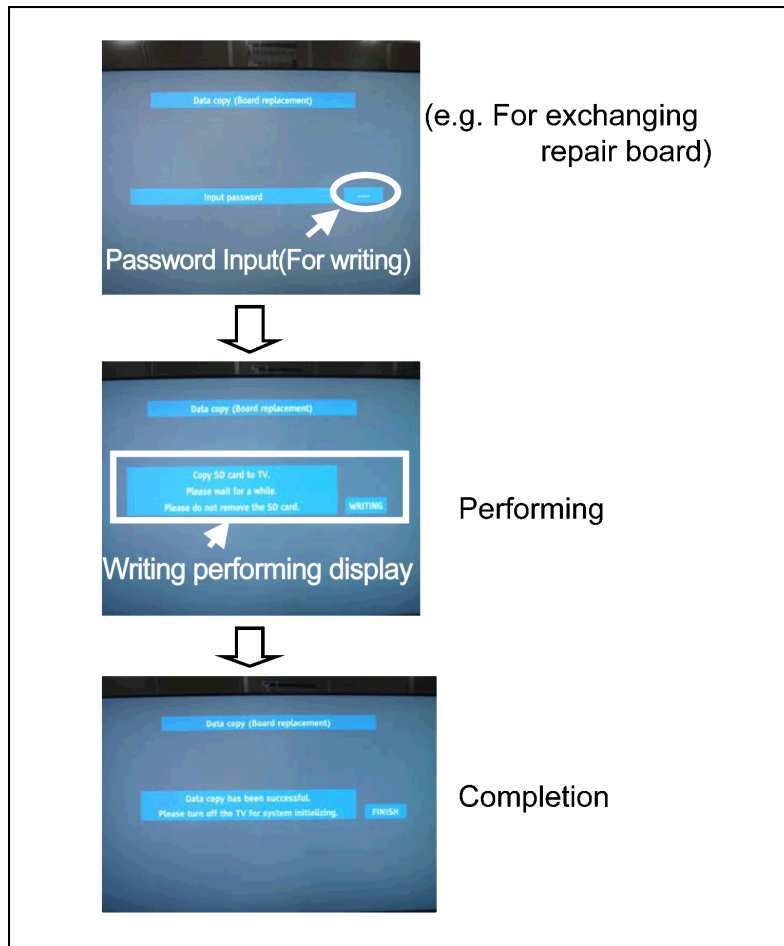


6.5.4. Data copy from SD Card to TV set

1. Turn on the TV set.
2. Insert SD card with Data to SD slot.
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 SD card to TV set.
4. After the completion of copying to SD card, remove SD card 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:

Caution:

New key will be generated and previous TV programmes recorded in USB HDD will not be viewed. (See Chap.5)

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. Screen display

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----|------|----|------|----|------|----|------|----|------|----|-------|----|------|----|------|----|-----|----|------|----|-----|----|-----|----|--------|----|----|----|------|----|---|------------|---------|-----------|------------|-------------|---------|-------------|-------|-----------|---------|----------|-----------|--------------|---------|---------|---------|---------|-------|---------|-------|-----------|-------|---------|-----------|-----------|-----------|------|---------|--|-----|------|----------|----|--|-------|--|-------|------|----------|
| 42FHD SET | Panasonic 2010 PDP SELF CHECK COMPLETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%; border-collapse: collapse;"> <tr><td>TUN</td><td>OK</td></tr> <tr><td>STBY</td><td>OK</td></tr> <tr><td>MEM1</td><td>OK</td></tr> <tr><td>MEM2</td><td>OK</td></tr> <tr><td>ADAM</td><td>OK</td></tr> <tr><td>AVSW</td><td>OK</td></tr> <tr><td>PANEL</td><td>OK</td></tr> <tr><td>OFDM</td><td>OK</td></tr> <tr><td>TEMP</td><td>OK</td></tr> <tr><td>FRC</td><td>OK</td></tr> <tr><td>MIHO</td><td>OK</td></tr> <tr><td>VIF</td><td>OK</td></tr> <tr><td>LAN</td><td>OK</td></tr> <tr><td>2nd FE</td><td>OK</td></tr> <tr><td>ID</td><td>OK</td></tr> <tr><td>FP3D</td><td>OK</td></tr> </table> | TUN | OK | STBY | OK | MEM1 | OK | MEM2 | OK | ADAM | OK | AVSW | OK | PANEL | OK | OFDM | OK | TEMP | OK | FRC | OK | MIHO | OK | VIF | OK | LAN | OK | 2nd FE | OK | ID | OK | FP3D | OK | <table style="width: 100%; border-collapse: collapse;"> <tr><td>PEAKS-SOFT</td><td style="text-align: right;">*.*.*.*</td></tr> <tr><td>PEAKS-EEP</td><td style="text-align: right;">**.*.*.*.*</td></tr> <tr><td>LSI-PACKAGE</td><td style="text-align: right;">*.*.*.*</td></tr> <tr><td>LSI-RELEASE</td><td style="text-align: right;">*.*.*</td></tr> <tr><td>STBY-SOFT</td><td style="text-align: right;">*.*.*.*</td></tr> <tr><td>STBY-EEP</td><td style="text-align: right;">*.*.*.*.*</td></tr> <tr><td>STBY-ROMCORR</td><td style="text-align: right;">*.*.*.*</td></tr> <tr><td>PDP-MCU</td><td style="text-align: right;">*.*.*.*</td></tr> <tr><td>PDP-EEP</td><td style="text-align: right;">*.*.*</td></tr> <tr><td>PDP-DCC</td><td style="text-align: right;">*.*.*</td></tr> <tr><td>PDP-PDPOM</td><td style="text-align: right;">*.*.*</td></tr> <tr><td>FRC-EEP</td><td style="text-align: right;">*.*.*.*.*</td></tr> <tr><td>MIHO-SOFT</td><td style="text-align: right;">*.*.*.*.*</td></tr> <tr><td>FP3D</td><td style="text-align: right;">*.*.*.*</td></tr> </table> | PEAKS-SOFT | *.*.*.* | PEAKS-EEP | **.*.*.*.* | LSI-PACKAGE | *.*.*.* | LSI-RELEASE | *.*.* | STBY-SOFT | *.*.*.* | STBY-EEP | *.*.*.*.* | STBY-ROMCORR | *.*.*.* | PDP-MCU | *.*.*.* | PDP-EEP | *.*.* | PDP-DCC | *.*.* | PDP-PDPOM | *.*.* | FRC-EEP | *.*.*.*.* | MIHO-SOFT | *.*.*.*.* | FP3D | *.*.*.* | <table style="width: 100%; border-collapse: collapse;"> <tr><td>SUM</td><td style="text-align: right;">****</td></tr> <tr><td>Model ID</td><td style="text-align: right;">**</td></tr> <tr><td></td><td style="text-align: right;">*****</td></tr> <tr><td></td><td style="text-align: right;">*****</td></tr> <tr><td>EDID</td><td style="text-align: right;">** *****</td></tr> </table> | SUM | **** | Model ID | ** | | ***** | | ***** | EDID | ** ***** |
| TUN | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STBY | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEM1 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEM2 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADAM | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AVSW | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PANEL | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OFDM | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEMP | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FRC | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIHO | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VIF | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LAN | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2nd FE | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ID | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FP3D | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LSI-PACKAGE | *.*.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSI-RELEASE | *.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| STBY-ROMCORR | *.*.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PDP-MCU | *.*.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PDP-EEP | *.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PDP-DCC | *.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PDP-PDPOM | *.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FRC-EEP | *.*.*.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIHO-SOFT | *.*.*.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FP3D | *.*.*.* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUM | **** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model ID | ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| EDID | ** ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

7.1.3. Check Point

Confirm the following parts if NG was displayed.

| Display | Ref. No. | Description | P.C.B. |
|---------|----------|---------------------|----------|
| TUN | TU2901A | TUNER | A-Board |
| STBY | IC1100 | MPU | A-Board |
| MEM1 | IC1101 | EEPROM (MPU) | A-Board |
| MEM2 | IC8950 | EEPROM (PEAKS-LDA2) | A-Board |
| ADAM | IC8000 | A-chip (PEAKS-LDA2) | A-Board |
| AVSW | IC3001 | Audio/Video SW | A-Board |
| PANEL | IC9003 | PANEL MPU | D-Board |
| OFDM | IC8300 | Digital demodulator | A-Board |
| TEMP | IC1000 | Temp Sensor | A-Board |
| FRC | IC4200 | FRC-S | A-Board |
| MIHO | IC5800 | MIHO2-3D | A-Board |
| VIF | TU2901A | TUNER | A-Board |
| LAN | IC8703 | Ethernet IF | A-Board |
| 2nd FE | IC6700 | LNB Power Supply | XS-Board |
| ID | | | A-Board |
| FP3D | IC7001 | FPGA 2D-3D | A-Board |

7.1.4. Exit

Disconnect the AC cord from wall outlet or switch off the power with [Power] button on the main unit.

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 | Blinking timing | Contents | Check point |
|----------------|-----------------|--|--|
| 1 | | Unknown SOS | - |
| | | Panel information SOS PD4 Start SOS | - |
| 2 | | P+15V SOS | A-Board D-Board P-Board |
| 3 | | P+3.3V SOS | D-Board |
| 4 | | Power SOS | P-Board |
| 5 | | P+5V SOS | D-Board |
| 6 | | Driver SOS1 (SC Energy recovery circuit) (D-SC FPC DET) | SC-Board D-SC FPC |
| 7 | | Driver SOS2 (SM Connector DET) (SM Scan and Logic IC) | SM-Board * |
| 8 | | Driver SOS3 (SS FPC DET) (SS Energy recovery circuit) | SS-Board SS2-Board |
| 9 | | Discharge Control SOS | D-Board |
| 10 | | Sub 5V SOS Sub 3.3V SOS Sub 9V SOS F15V Tuner Power SOS MIHO 3.3V SOS LED 8V SOS FRC 3.3V | A-Board SC-Board SS-Board P-Board |
| 12 | | Sound SOS | A-Board Speaker |
| 13 | | Emergency SOS | A-Board |

*Use SC jig to isolate the board.