

Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Menu

How to enter SERVICE

While pressing (-/v) button on the TV unit, press **0** on the remote control for 3 times within 2 seconds.

Note:

To exit from Service mode, press the exit button on remote control.

SERVICE

| | | | | |
|----------|-------------|------------|-----------------|----------|
| SERVICE | Peaks SOFT | 2.006 | OPTION 1 | 3c |
| ADJUST | Peaks EEP | 01.03.0014 | OPTION 2 | ef |
| WB-ADJ | LSI PACKAGE | 0.027 | OPTION 3 | 01 |
| OPTION | LSI DATA | 1.00.00 | OPTION 4 | 00 |
| SRV-TOOL | STBY SOFT | 1.03.00 | MODEL ID | 07 |
| | STBY EEP | 1.08.36 | | 03197100 |
| | STBY ROMCOR | 1.01.00 | | 00000004 |
| | ZWEI SOFT | 05000102 | R/E Cnt | 000/000 |
| | Ajax_CE | 0.8.6 | INV Cnt | 0000 |
| | | | CMS data L0.403 | |

Key Command

- Press the **3/4** button to change the adjustment values or function.
- Press the **1/2** button to step up/down through the functions and adjustments
- Press the numerical button **VOLUME (+/-)** to change option item.
- Press the **OK** button after each adjustment has been made to store the required values.



Service Tool Mode

How to access

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

| SRV-TOOL | |
|-----------------------|------------------------------|
| | |
| | |
| TD2Microcode:005a0910 | |
| Flash ROOM: AD – F1 | |
| PTCT:00.00.00.00.00 | Time 00051:30 On/Off 0000042 |

Display of TD2Microcode version →

Display of Flash ROM maker code →

Display of SOS History →

POWER ON TIME/COUNT
Press [MUTE] button (3sec) ←

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].

Power ON Time, On/Off

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

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.

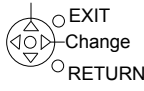
Exit

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

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 | Off |
| Button Lock | Off |
| Remote Lock | Off |
| Select  | |

3. To exit the "Hotel mode" menu press the EXIT button on remote control.
4. Explain the Hotel mode setup menu.

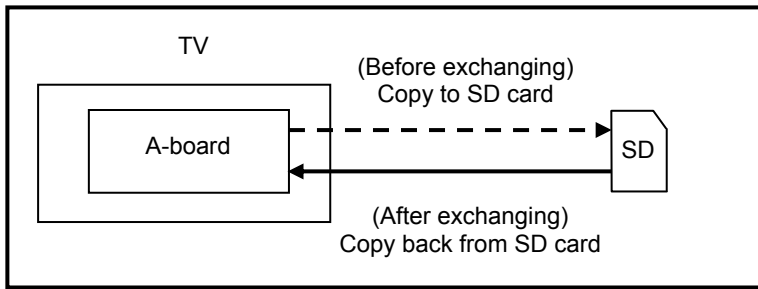
| ITEM | Function |
|-------------------|---|
| Hotel Mode | Select hotel mode ON/OFF |
| Initial INPUT | Select input signal modes. Set the input, when each time power is switched on. Selection: Off Analog /DVB-C/DVB-T/T2 DVB-S AV1/AV2/AV2S/AV3/ Component/PC/HDMI1/HDMI2/HDMI3/HDMI4 *Off: give priority to the 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 the 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 the 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 |

Data Copy by SD Card

Purpose

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

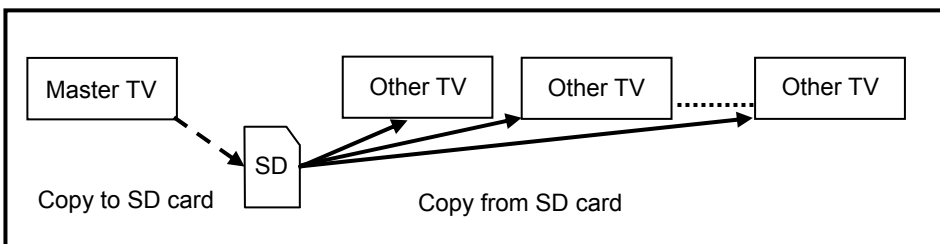
When exchanging A-board, the data in original A-board can be copied to SD card and then copy to new A-board.



Following data can be copied.
User setting data
(inc. 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 the copy to other TVs.



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

Preparation

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

1. Insert an 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 (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 be in SD card.

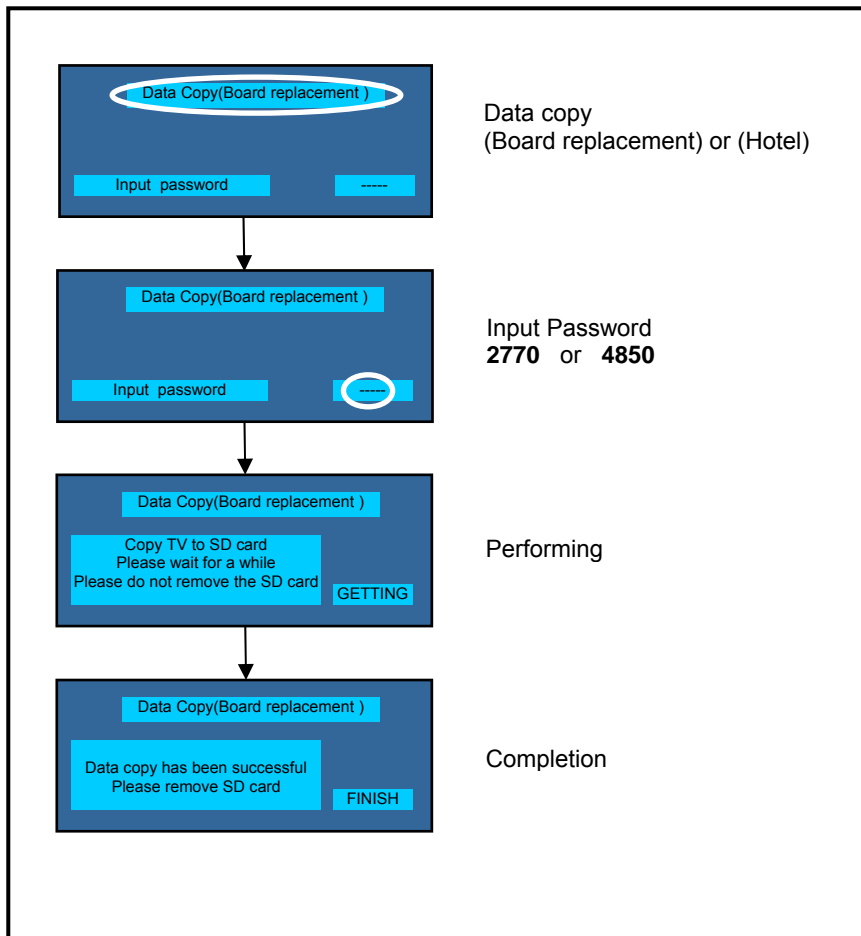
Data Copy from TV set to SD Card

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

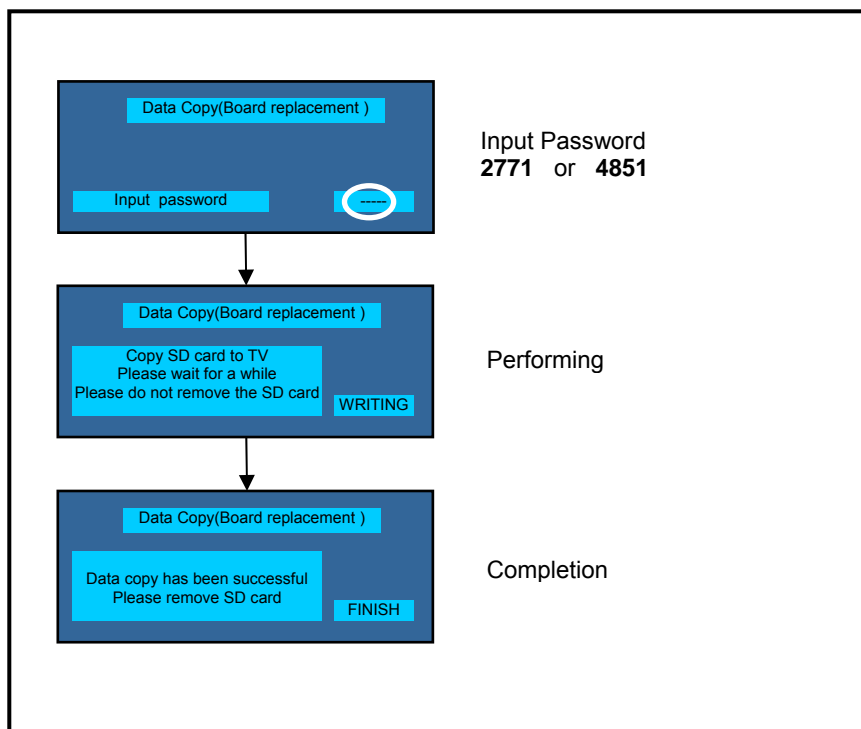


Data Copy from SD Card to TV set

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: 4851Data will be copied from SD card to TV set.
4. After the completion of copying from 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 for board replacement does not work.
2. This function can be effective among the same model numbers.



Option Bytes Description

| OPTION1 | | |
|---------|--|---------------------|
| b0 | ATP Search Speed | Slow (1) / Fast (0) |
| b1 | TXT Ch Refresh | On (1) / Off (0) |
| b2 | ID-1 | On (1) / Off (0) |
| b3 | Macrovision Auto-Judge | On (1) / Off (0) |
| b4 | Surround enable low bit (*1) | On (1) / Off (0) |
| b5 | Surround enable low bit (*1) | On (1) / Off (0) |
| b6 | Pre Emphasis | On (1) / Off (0) |
| b7 | TINT_COMPONENT_HDMI | On (1) / Off (0) |
| OPTION2 | | |
| b0 | Adjust Igain enable | On (1) / Off (0) |
| b1 | A2 BC enable (5.5) | On (1) / Off (0) |
| b2 | A2 DK1 enable (6.26) | On (1) / Off (0) |
| b3 | A2 DK3 enable (5.742) | On (1) / Off (0) |
| b4 | NICAM scan | On (1) / Off (0) |
| b5 | NICAM BG enable (5.5) | On (1) / Off (0) |
| b6 | NICAM I enable (6.0) | On (1) / Off (0) |
| b7 | NICAM DK enable (6.5) | On (1) / Off (0) |
| OPTION3 | | |
| b0 | NICAM priority | On (1) / Off (0) |
| b1 | Starhub scan enable | On (1) / Off (0) |
| b2 | add H264 enable | On (1) / Off (0) |
| b3 | A2 DK2 enable | On (1) / Off (0) |
| b4 | Inhibition of countermeasure for SIF signal drop | On (1) / Off (0) |
| b5 | get onid from physical CH | On (1) / Off (0) |
| b6 | | |
| b7 | SASO mute | On (1) / Off (0) |
| OPTION4 | | |
| b0 | All country DVB-S enable | On (1) / Off (0) |
| b1 | All country DVB-C enable | On (1) / Off (0) |
| b2 | 3DYC color motion detected | On (1) / Off (0) |
| b3 | | On (1) / Off (0) |
| b4 | | On (1) / Off (0) |
| b5 | | On (1) / Off (0) |
| b6 | PIP | On (1) / Off (0) |
| b7 | RF remote control | On (0) / Off (1) |

Adjustment Method

Sub-Contrast/White Balance Adjustment

| Instrument Name | Connect to | Remarks | | | | | | | | |
|--|--|---|--------|-----------|--|--|--------|----------|--|--|
| 1. Remote controller 2. LCD WB meter (Minolta CA-210 or equivalent) 3. Communication jig 4. Computer for external control | | Correlation can be also taken by CS-1000A or equivalent | | | | | | | | |
| Procedure | | Remarks | | | | | | | | |
| <p>Subcontrast adjustment</p> <ol style="list-style-type: none"> 1. Receive PAL colour bar (100% white) RF signal. 2. Enter "Contrast" adj. In SERVICE mode. 3. Start adjusting by using Yellow Key. 4. If the adjustment finished normally, the letter of Contrast will change from red to black. <p>White Balance adjustment</p> <ol style="list-style-type: none"> 1. Procedure basically performs checking using the production software and make automatic adjustment using external computer. 2. It adjusts in the mode of: Colour balance Normal Viewing Mode Dynamic <table data-bbox="188 1077 643 1279"> <tr> <td></td> <td>Normal</td> </tr> <tr> <td>Highlight</td> <td>x: 0.2710 ± 0.010 y: 0.2750 ± 0.010</td> </tr> <tr> <td></td> <td>Normal</td> </tr> <tr> <td>Lowlight</td> <td>x: 0.2710 ± 0.010 y: 0.2750 ± 0.010</td> </tr> </table> | | | Normal | Highlight | x: 0.2710 ± 0.010 y: 0.2750 ± 0.010 | | Normal | Lowlight | x: 0.2710 ± 0.010 y: 0.2750 ± 0.010 | <p>Let the panel stand for more than 3 hours at more than 20 °C. Basically perform adjustment in the ambient environment of room temperature more than 20 °C. The aging time is more than 20 min at above room temperature.</p> <p>Applied signal</p> <p>100% full colour bar 0.7V p-p white peak 85% modulation</p> <p>100% WHITE</p> <p>50% GRAY</p> |
| | Normal | | | | | | | | | |
| Highlight | x: 0.2710 ± 0.010 y: 0.2750 ± 0.010 | | | | | | | | | |
| | Normal | | | | | | | | | |
| Lowlight | x: 0.2710 ± 0.010 y: 0.2750 ± 0.010 | | | | | | | | | |