Last updated: 2016.03.17 (150922)
Model: LVTX-STD-V1.0, Product Code: LVSTD-0901-000

VL6-PCM30

Specification & Installation

Compatible with Porsche PCM 3.0 navigation

Sports cars and Cayenne

Contents

1.1 Main specification

1. Input Spec. (MULTI VIDEO INTERFACE)
   - 3 x A/V Input (External video source).
   - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
   - 1 x Analog RGB Input (Navigation System output)
   - 1 x LCD Input (Car system Input)
   - 1 x Cayenne Input

2. Output Spec.
   - 1 x Cayenne Output
   - 4 x Audio Select (12V power comes out from 4wires of cable by video, Navi mode)

3. Power Spec.
   - Input Power : 10VDC ~ 16VDC
   - Consumption Power: 12WATT, Max

4. Switch Input mode
   - Input Video MUTE Function: Possible to make each input mute by operating Dip S/W.
   - Possible to switch Input mode by a Keypad
   - Possible to switch Input mode by a toggle button

1.2 Features

-Improved quality

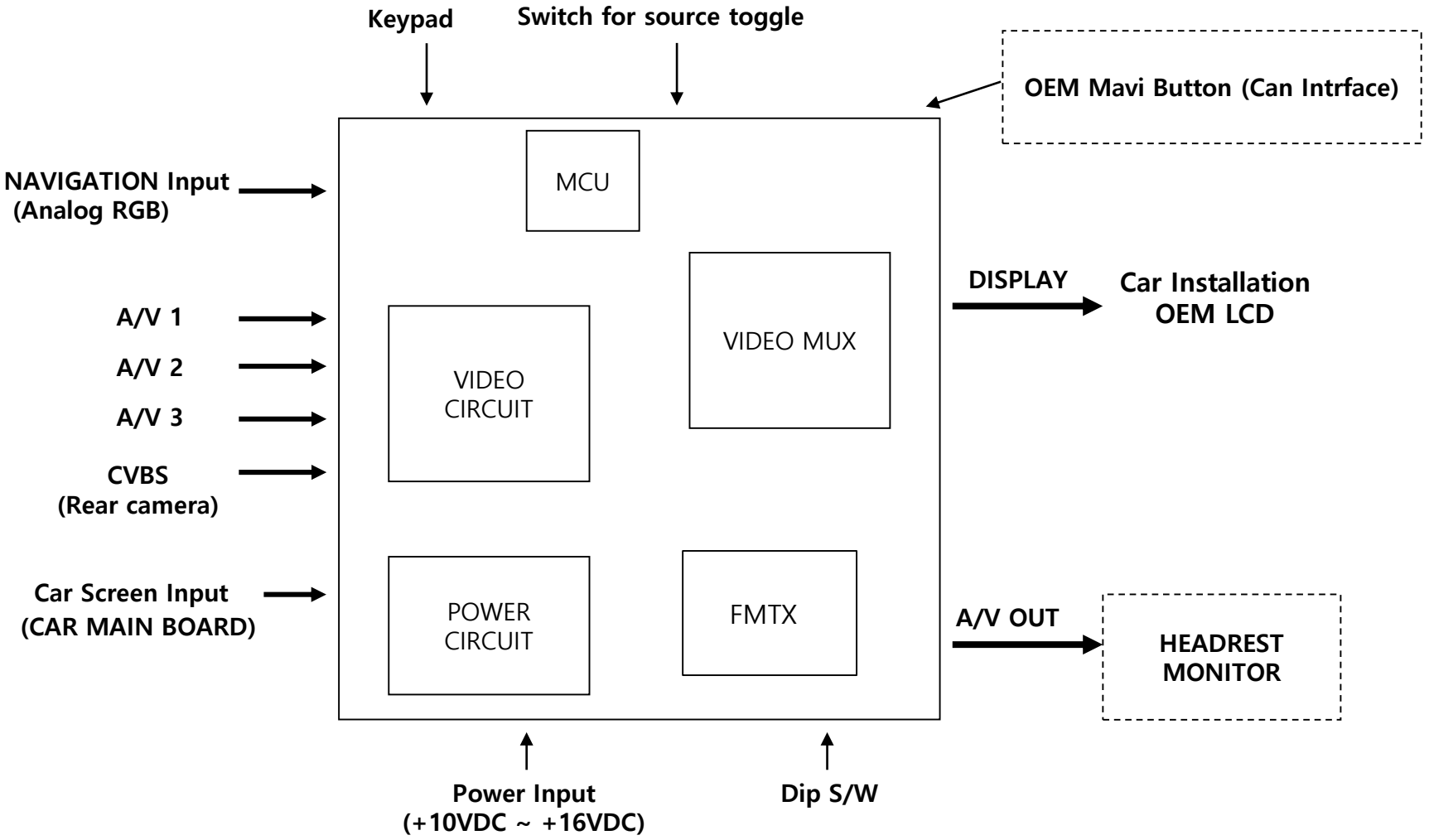
-Auto detection for NTSC, PAL signals

-AV source switching by original button

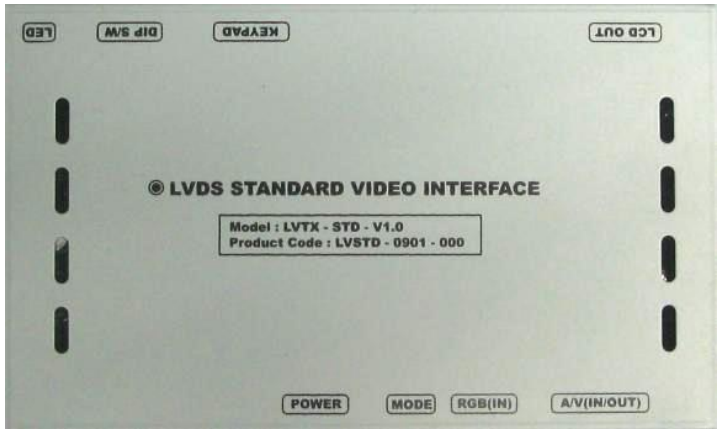
-FMTX Module Built in.

-Possible to control displayed external NAVI, AV image

1.3 System diagram



1.4 Components

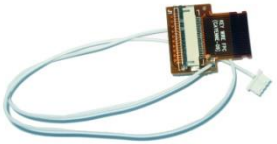


FPC cable
(FPCABL0002)

Sub board
(QCPASS0041)

Extension cables
(HTOUCH0001)
(HTOUCH0003)

TOUCH cable
(HTOUCH0002)



Button cable
(FPCABL0003)

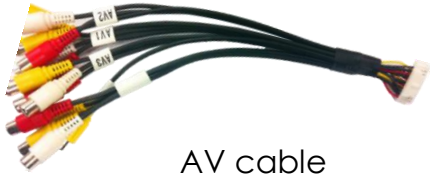
FFC cable
(FFCABL0006)

POWER cable (10P)
(HPOWER0005)

Mode cable
(HARETC0001)

RGB cable
(HNAVIC0002)

LVDS cable
(HLVDSC0006)



AV cable
(HAVCAB0002)

IR cable (8P)
(HIRCAB0003)

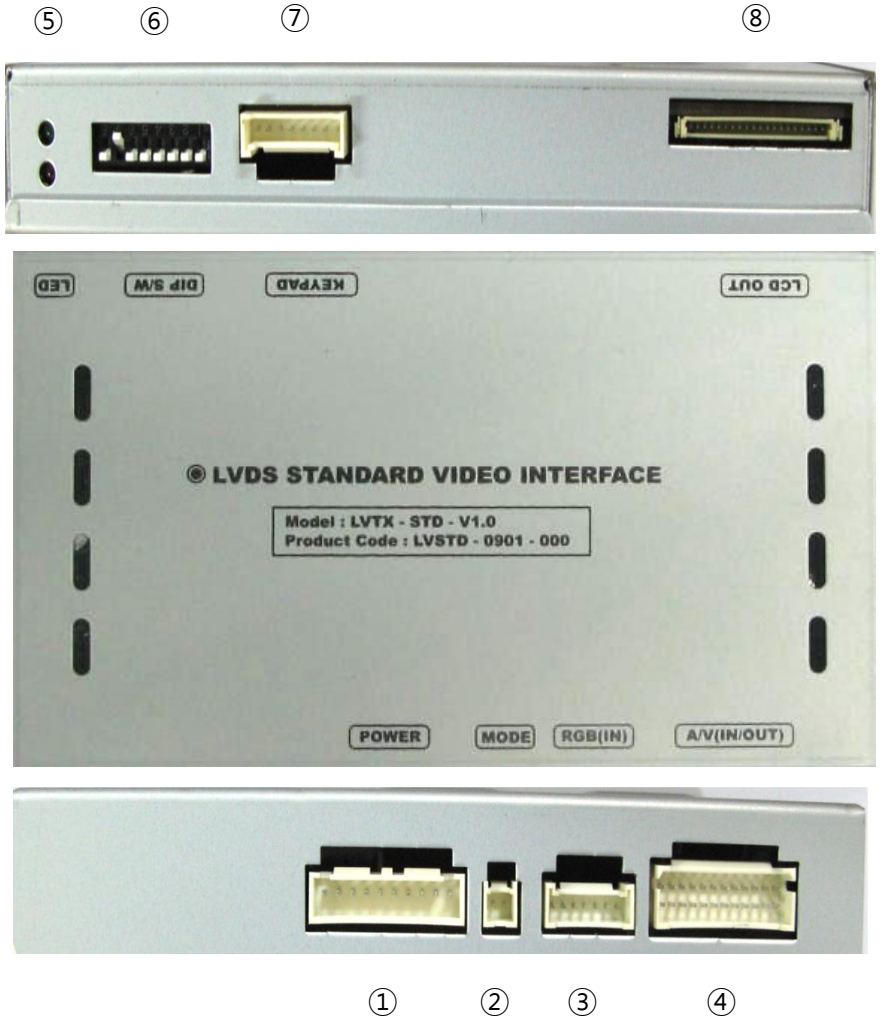
Remote control
(REMOTE0001)

OR

Ground cable
(HGROUN0001)

Keypad
(SMTASY0063)

1.5 Exterior



Dimension

Horizontal length 155mm
Vertical length 93mm
Height 20mm

① POWER

② MODE

③ RGB IN

④ AV IN/OUT

⑤ LED

⑥ DIP S/W

⑦ KEYPAD/IR

⑧ LCD OUT

2.1 DIP switch

Dip	Function	DIP S/W selection
1	RGB INPUT MUTE	ON : Skipping RGB Mode OFF : RGB input activated
2	A/V 1 MUTE	ON : Skipping A/V 1 OFF : A/V1 input activated
3	A/V 2 MUTE	ON : Skipping A/V 2 OFF : A/V2 input activated
4	A/V 3 MUTE	ON : Skipping A/V 3 OFF : A/V3 input activated
5		no function
6		no function
7	Rear Camera Mode	ON : External Rear Camera OFF: OEM Rear Camera
8	Skip Original Navigation/Main	ON : Switching Sequence is →Main-NAVI-AV1-AV2-AV3-Main… OFF : Switching Sequence is →NAVI-AV1-AV2-AV3-NAVI…

※DIP S/W Use – example settings

- Use Input Mode: A/V1, A/V2
- Use Original Navigation
- Use Factory rear-view camera

▷ DIP S/W : 1,4 -→ ON (INPUT MODE SKIP)
▷ DIP S/W : 2 -→ OFF (enable A/V1)
▷ DIP S/W : 3 -→ OFF (enable A/V2)
▷ DIP S/W : 5,6,7 -→ OFF
▷ DIP S/W : 8 -→ ON

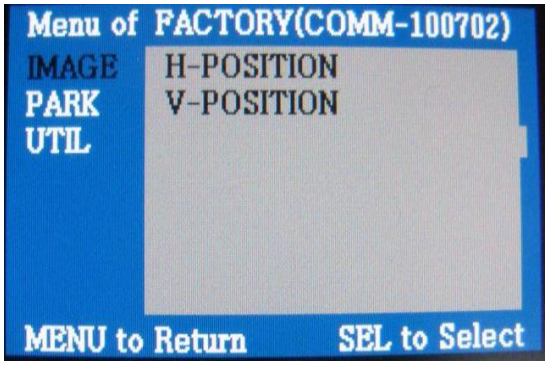
※ Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch setting whenever changing DIP switch. Otherwise, DIP switch setting will not be applied.

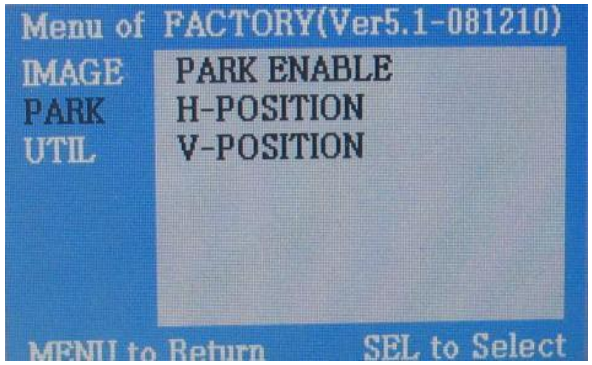
2.2 Factory mode

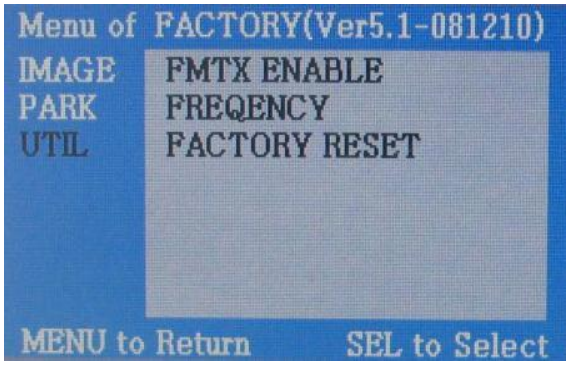
· **Factory Mode**

① Press 'UP(▲)' button of supplied key pad for 2 sec.

② Press ▲ → ▼ → ▲ →MENU buttons in order.







IMAGE

- H_POSITION : Horizontal movement of the OSD window
-V_POSITION : Vertical movement of the OSD window

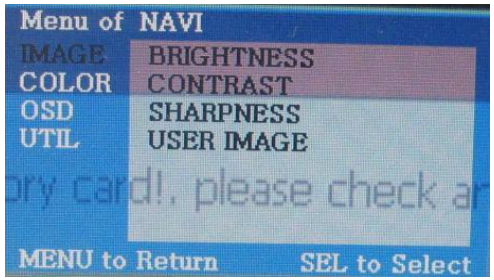
PARK

- PARK ENABLE : Setup of rear view parking guide line
- H_POSITION : Horizontal movement of the OSD window
-V_POSITION : Vertical movement of the OSD window

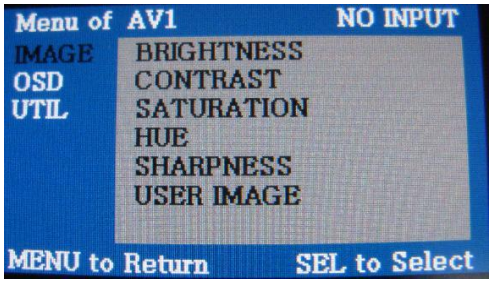
UTIL

- FMTX ENABLE : FMTX setting
- FREQENCY : Adjust frequency
- FACTORY RESET : To reset all the values

2.3 OSD (on screen display)



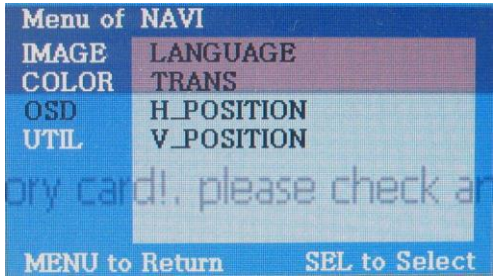
Analog RGB Mode



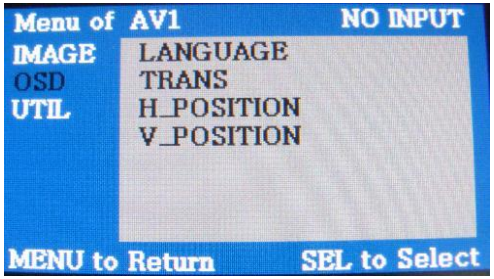
Video Mode

IMAGE
- BRIGHTNESS
- CONTRAST
- SATURATION
- HUE
- SHARPNESS

USER IMAGE : To choose a option among 4 prepared color shade.

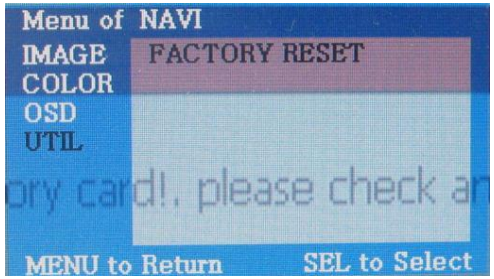


Analog RGB Mode

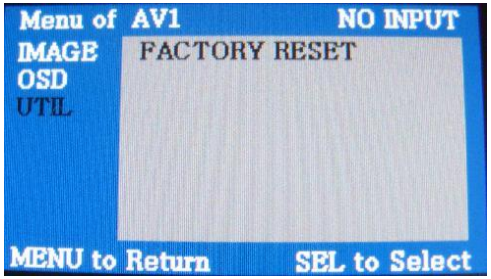


Video Mode

OSD
- LANGUAGE : Choosing OSD language while using Touch OSD (English, Chinese only)
- TRANS
: Transparency control of the OSD background
- H_POSITION
: Horizontal movement of the OSD window
- V_POSITION
: Vertical movement of the OSD window



Analog RGB Mode

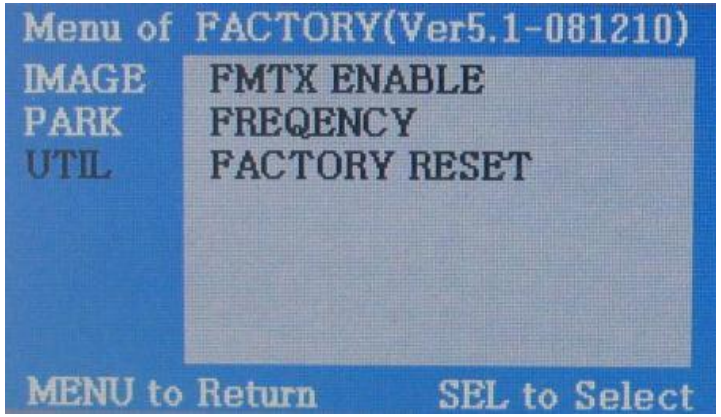


Video Mode

UTIL
- FACTORY RESET : To reset all the values
(To reset of Navigation, AV individually)

2.4 FMTX Setting

Factory Default : FMTX USE – ON, FREQENCY – 88.2MHz



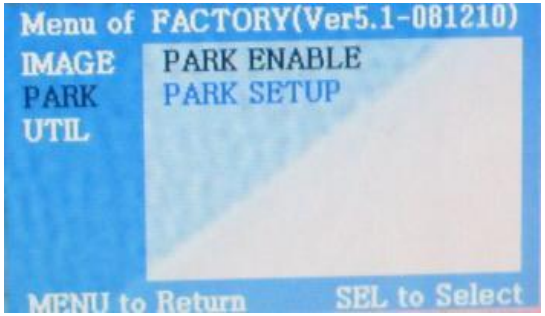
-Activate the Factory Mode operated with pressing ▲ → ▼ → ▲ → MENU buttons on the keypad in sequence.

-Set "FM-TX USE" to "ON" as shown left. (Default -ON) Control the frequency by "▲", "▼" buttons on the Remote control. At the bottom, you can see present frequency and control it from 87.5MHZ to 108MHZ. (1MHZ per each time to press)

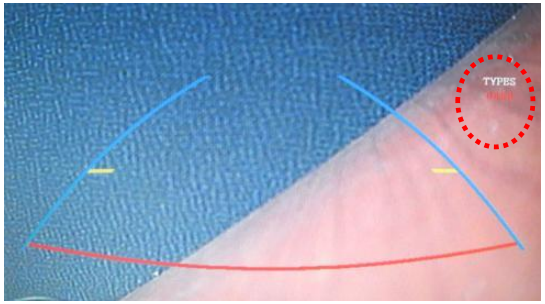
※ If you do not want this function, kindly set "FM-TX USE" to "OFF". (Use ▲, ▼ buttons on the Remote control)

2.5 Parking guide line

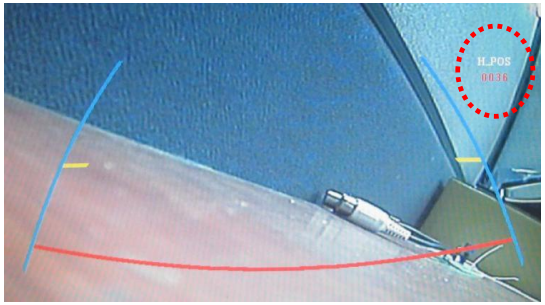
Factory Default -Types:0, H_Pos:50, V_Pos:120



① Register the value needed on the "PARK SETUP" with pressing "OK" button on the Remote control in the PARK section as shown left. Then, you can control distance between 2 parallel lines.



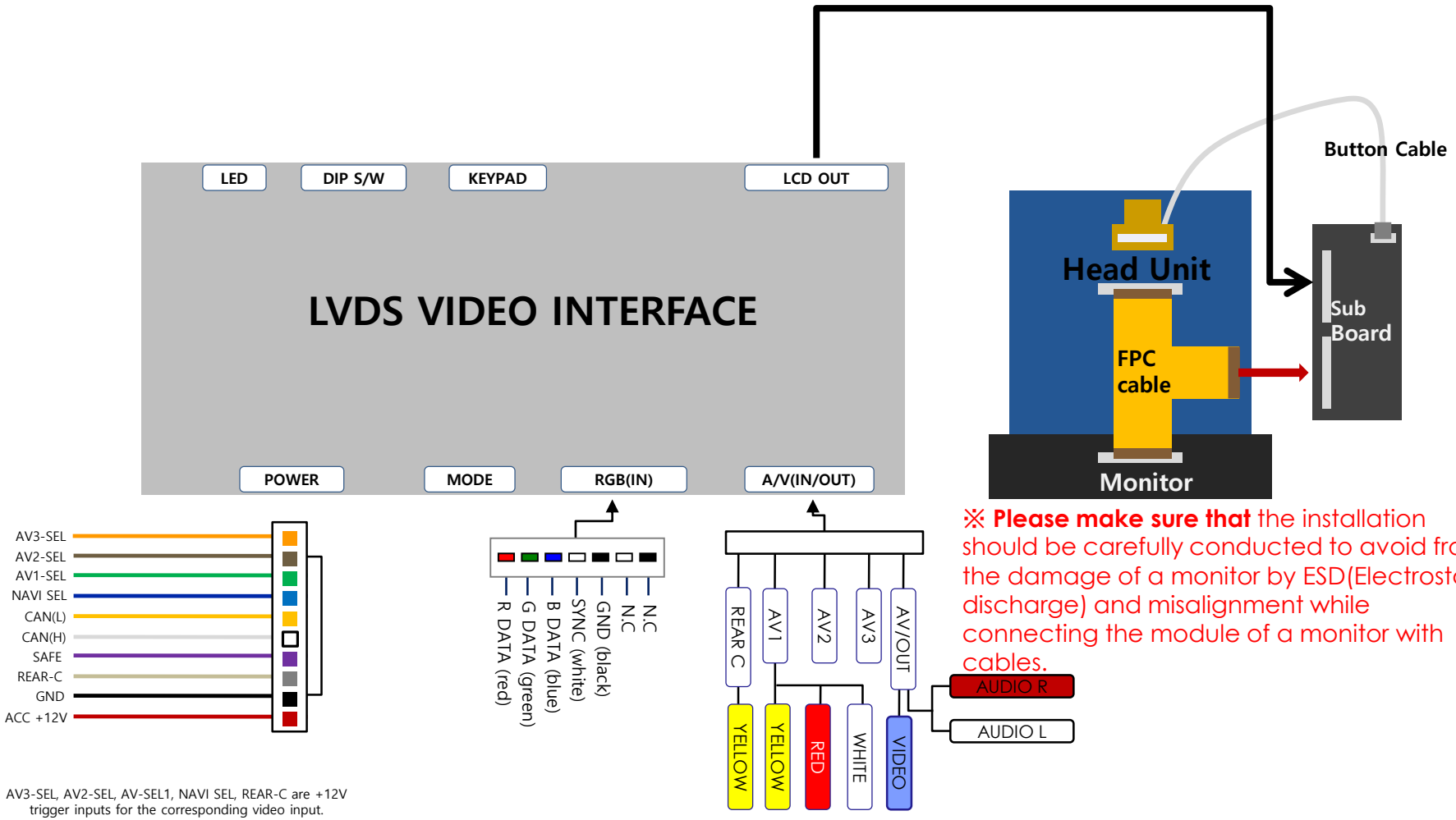
② There are 4 steps of parallel lines distance, the distance is controlled by ▲, ▼ buttons in the Remote control. After controlling, must press "OK" button to save this status.
(You can see present status at the right in the screen)



③ After Step. ② , press ▲, ▼ buttons on the Remote control to control left, right position with pressing 'OK' button, and then you can control up, down position. (Able to control 0~255)

※ If you do not this function, kindly set 'PARK ENABLE" to 'OFF'.

3.1 Installation diagram



※ **Please make sure that** the installation should be carefully conducted to avoid from the damage of a monitor by ESD(Electrostatic discharge) and misalignment while connecting the module of a monitor with cables.

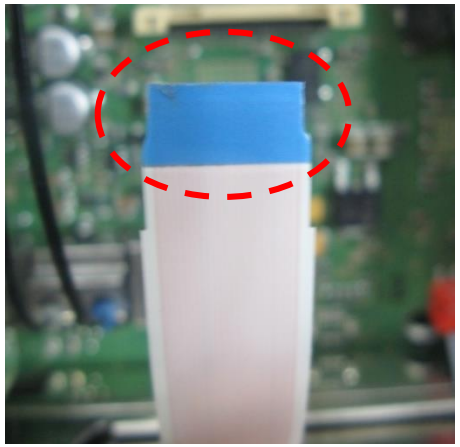
AV3-SEL, AV2-SEL, AV-SEL1, NAVI SEL, REAR-C are +12V trigger inputs for the corresponding video input.

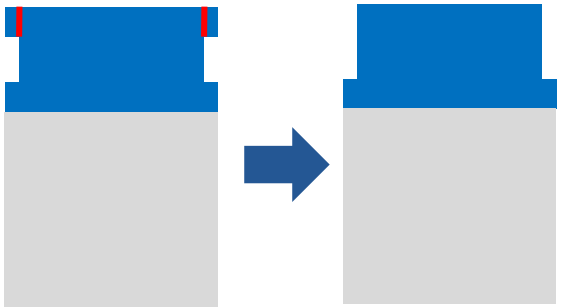
3.2 Cautions on Installation

- Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.
- Power cable should be separated when connecting interface.
- Should be no any electronic devices or magnetic pole around installation place.
- All steps of installation should be done by well-trained specialist.
- Dismantling without manufacturer's permission can not be guaranteed, (No permission to break attached label on the board.)
- Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.
- According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.
- It may not work on a camera with 12V

3.3 Installation

1. Cut the original FFC cable

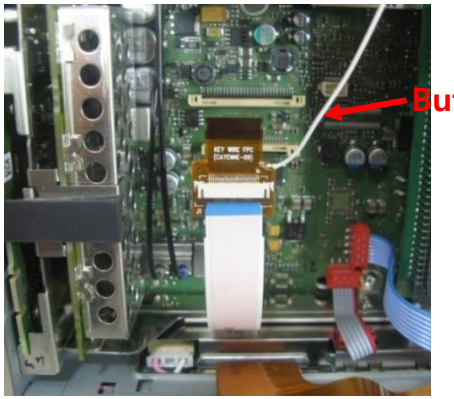


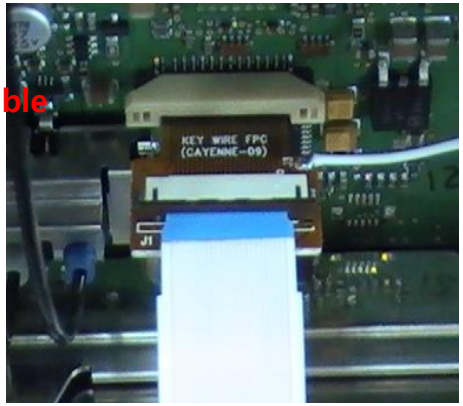


Before After

Trim edges of the original FFC cable which is connected between head unit board and monitor as shown left. (This is to connect the offered Button cable, be sure not to damage PIN on the cable.)

2. Connect the button cable to FFC cable

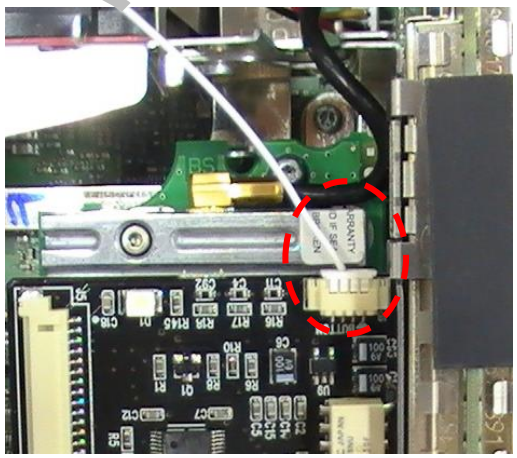




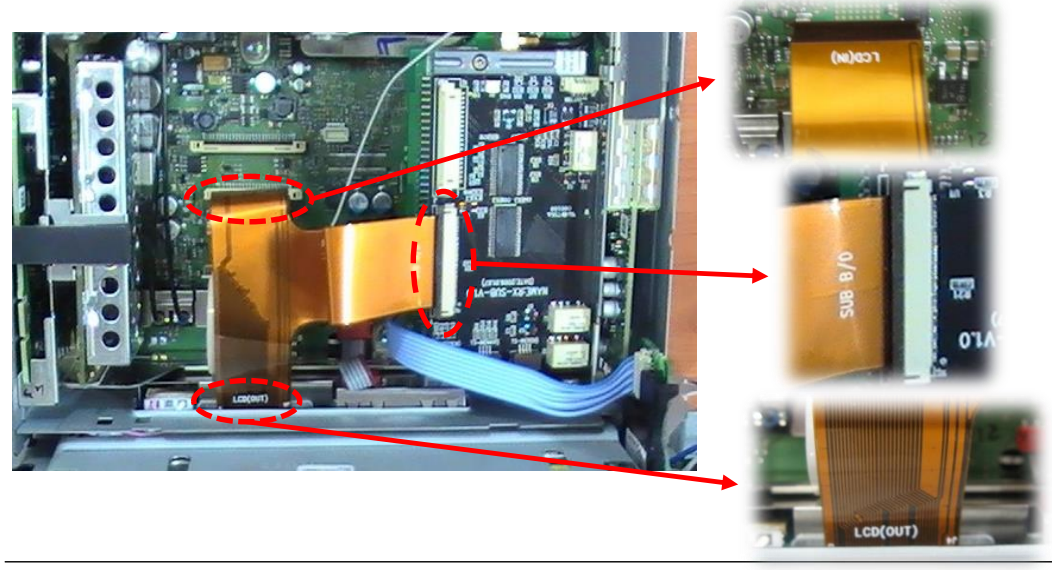
Connect the cut FFC cable in previous step to offered Button cable and connect this button cable to Head unit as shown left.

3.3 Installation

3. Connect the button cable to Sub-Board & Remove the original FPC cable



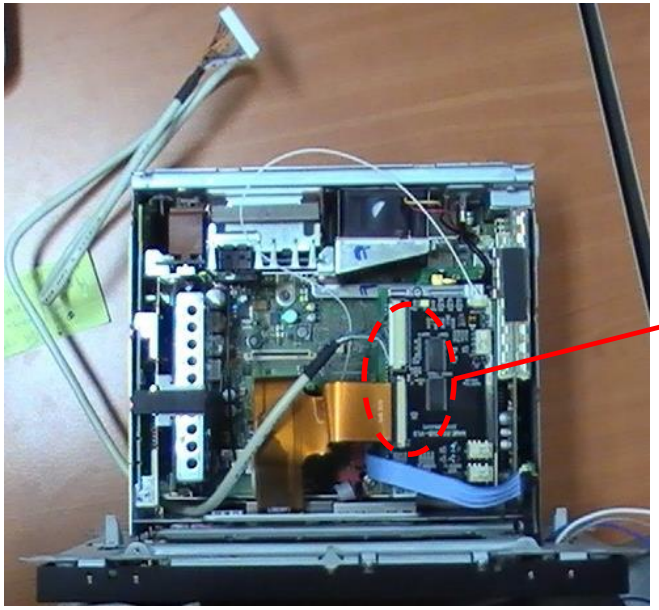
Connect the wire from the Button cable to the sub-board as shown left.

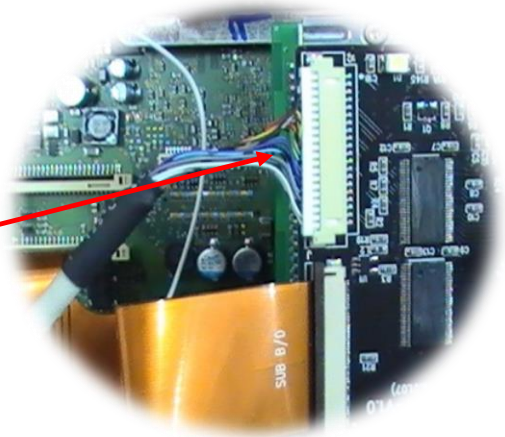


Remove the original FPC cable, connect the offered T-shaped FPC cable to Head unit and the offered Sub-board as shown left.
Be sure not to touch the opposite side. (It is possible to damage on Head unit when you touch the opposite side!)

3.3 Installation

4. Connect Cayenne Board to Sub-Board





Put LCD cable into Head unit, connect sub-board and interface board.

4. Troubleshooting

Q. I can not switch A/V sources.
A. Check IR or Ground cable connection. Check LED lamps in the interface, if it is not on, check power cable.

Q. All I got on the screen is black.
A. Check second LED lamp of the interface is on, if not, check A/V sources connected are working well.
(Second lamp indicates AV sources connected works well.) Check interface connection has been done well.

Q. Displayed image color is not proper. (too dim or not suitable color)
A. Try to select "INITIAL" in OSD menu, if it does not work, inform the manufacturer.)

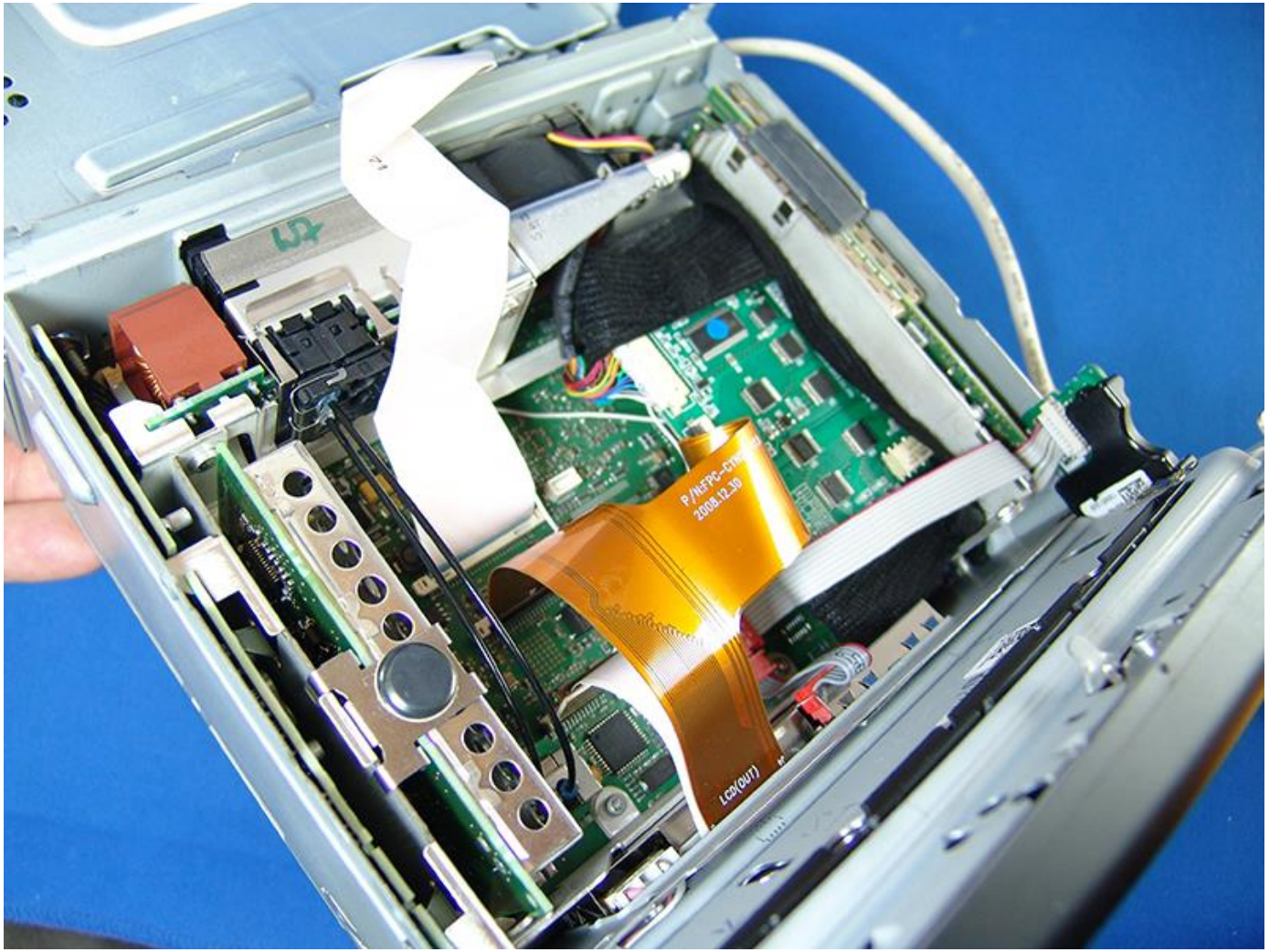
Q. Rear camera image does NOT appear.
A. Set DIP switch #7 in "ON"

Q. Unwanted A/V mode is displayed. (A/V source switching order : OEM->RGB->AV1->AV2->AV3)
A. Check DIP Switch Setting.

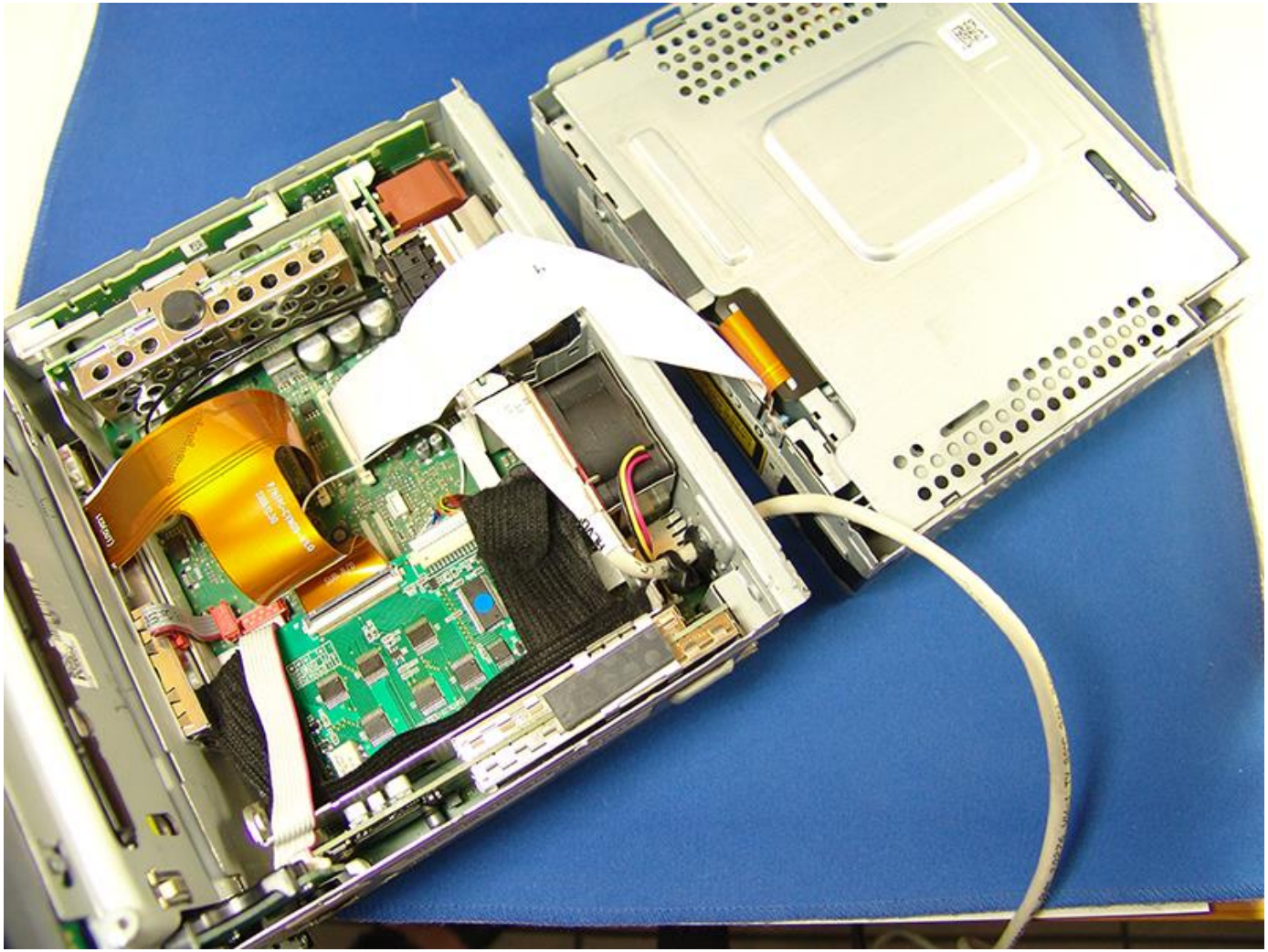
Q. OEM image is not displayed.
A. Check interface's LCD In/Out cable connection. If the status keeps on, inform the manufacturer.

Q. Screen only displays white like left picture.
A. Check LCD out cable is connected well, if this status keeps, inform the manufacturer.

5. Photo series



5. Photo series



5. Photo series