

Installation manual

(LVTX-1CH-Ford Explorer)

Warning / Caution



Warning

- When installing the main unit, do not remove or alter existing vehicle fasteners, including nuts, bolts, screw, clips, and fittings. Never detach, move or alter existing vehicle wiring, including electrical grounds and straps. Alteration of existing vehicle components may make vehicle unsafe to operate. Should be no any electronic devices or magnetic pole around installation place.
- Air bags are vital part of a safety system. Never install main unit in a way which will alter air bag wiring or interfere with air bag deployment. Air bags must function properly in the event of an accident.
- Before installing, check the location of pipe, tank, electrical cables and others.
- Read and follow the instruction manual.
- Wiring location must not interfere driving, get in or out from car.
- Use electrical tape to insulate the ends of all wires, even if they are not used. Proper insulation prevents arcs, shocks and fires.
- When installation is complete, test all vehicle electrical systems to ensure they operate correctly, including lights, horn, brake lights, and emergency flashers.
- According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.



Caution

- All steps of installation should be done by well-trained specialist.
- During installation ignition key should be taken off and after all installation finish connect power cable with interface for the last step.
- Do not install the main unit in places where it ma be exposed to dew condensation (around the air conditioning hose, etc), or in locations where it may come in contact with water, high levels of moisture, dust or oily smoke
- Install wiring in a manner in which cables will not come in contact with metal parts. The wiring may be damaged by contact with metal parts, resulting in fire and shocks. Avoid all contact with hot surfaces when wiring the main unit. High temperatures may damage wiring, causing shorts, arcing and fires.
- Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.

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1. Specification

1.1 Main Specifications

1. Car Compatibility
Ford Explorer 2014~
2. Components
Multimedia Interface * 1EA
Sub-board * 1EA
3. MULTIMEDIA INTERFACE INPUT
 - 3 * A/V input (video external input)
 - 1 * CVBS(Rear Camera) input
 - 1 * Analog RGB input (Navigation system)
 - 1 * LCD input (Car system input)
4. MULTIMEDIA INTERFACE OUTPUT
 - 1 * LCD OUTPUT(LCD)
 - 1 * Audio OUTPUT
 - 2 * CVBS OUTPUT
5. POWER
Input Power : 8VDC ~ 16VDC
Consumed Power : 4WATT (Max)
6. Switch input modes
 - External display skip function
 - : Through DIP switch, can control each video input
 - Through remote control and Toggle, can change input modes
 - Enable to switch modes with OEM buttons

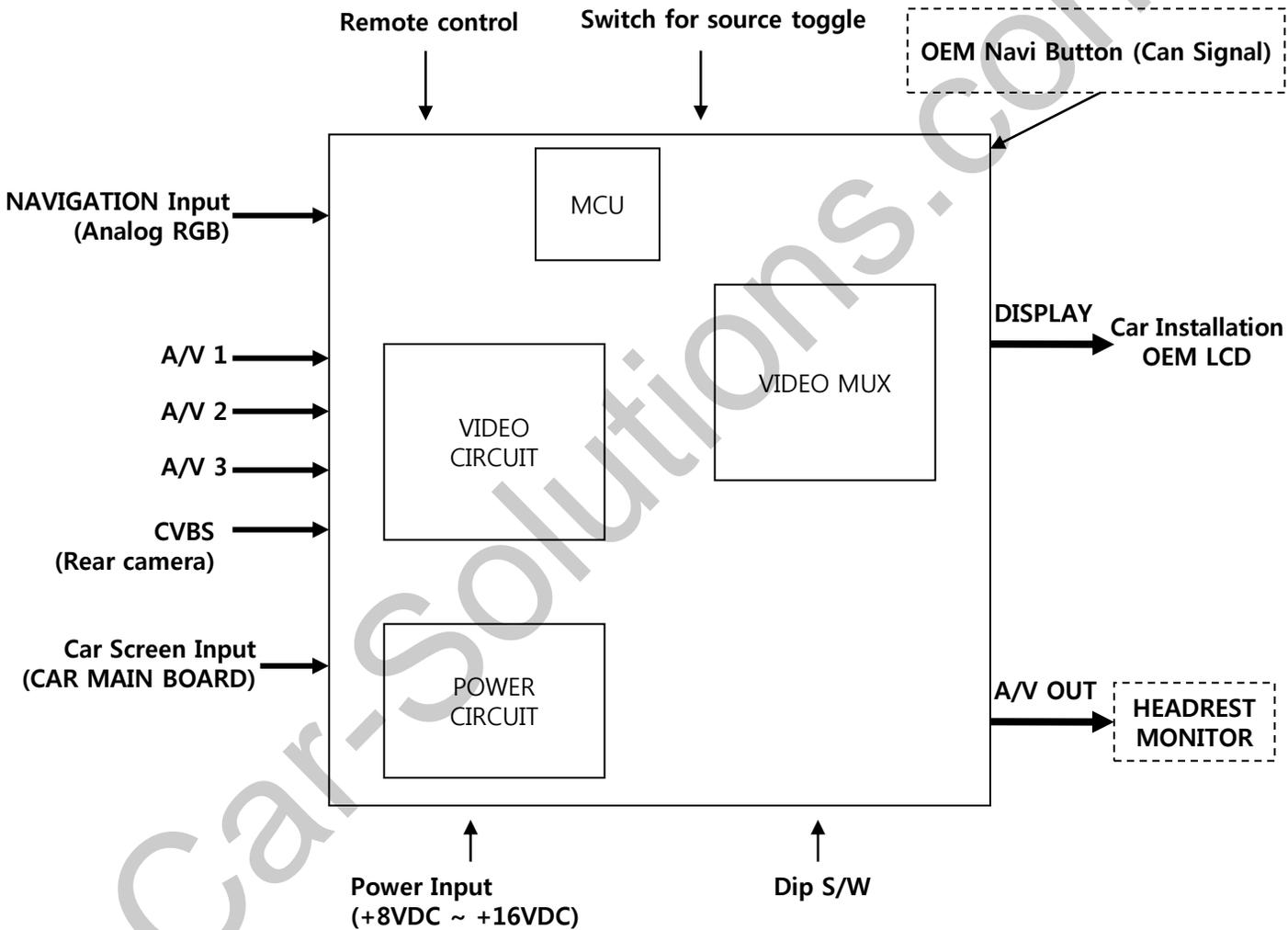
1. Specification

1.2 Features

- Easy Installation with a Plug & Play(Supply with LVDS cable)
- Able to adjust DVD, NAVI display on screen
- Add "SAFE" feature (Blocking Video output in driving)
- Screen display for Convenience oriented users

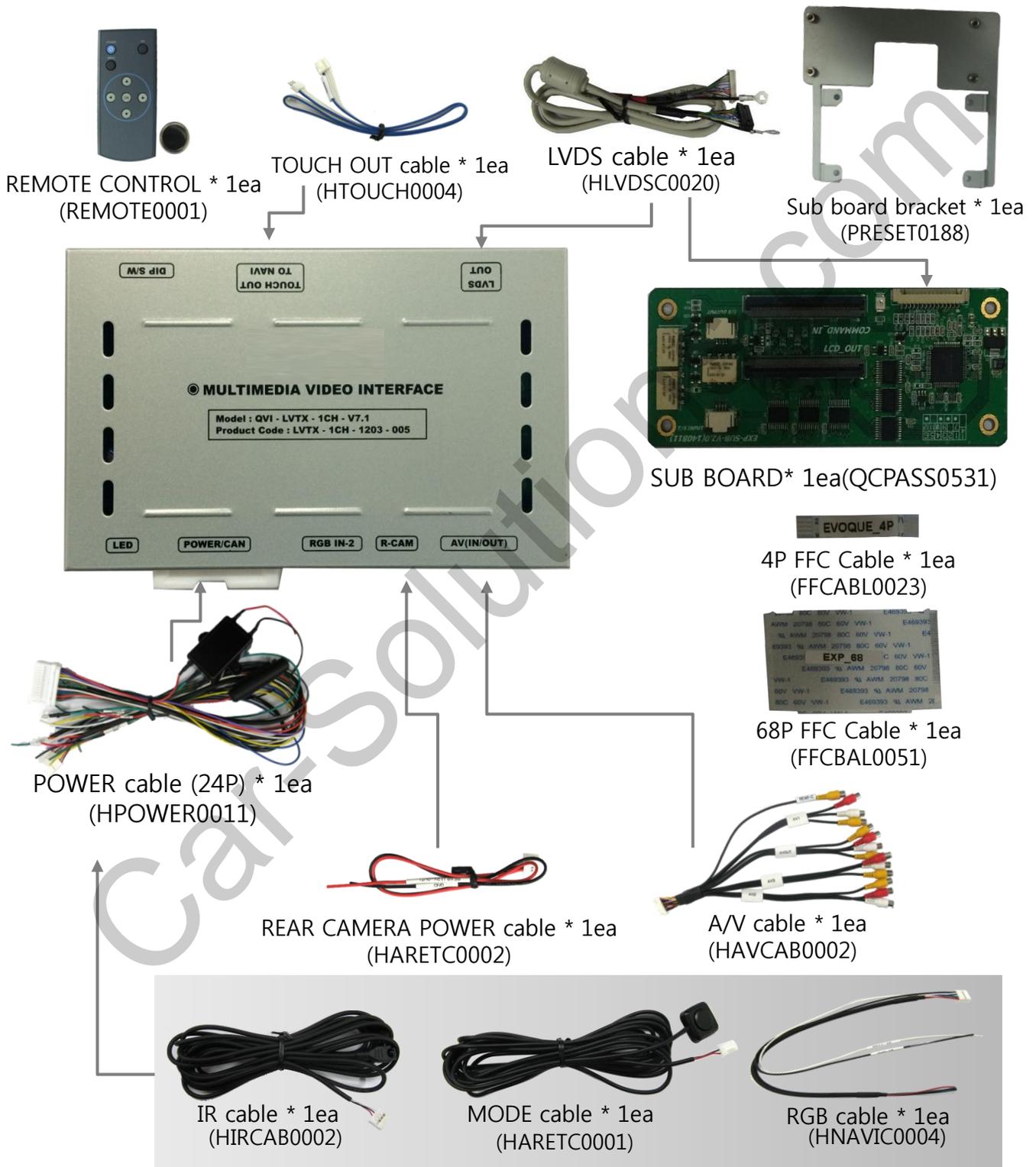
1. Specification

1.3 System Diagram



1. Specification

1.4 Component



1. Specification

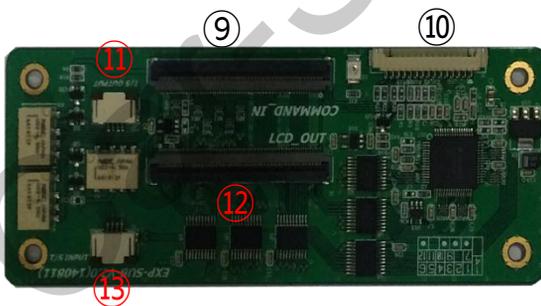
1.5 Exterior



Dimension

Width 125mm
Length 105mm
Height 21mm

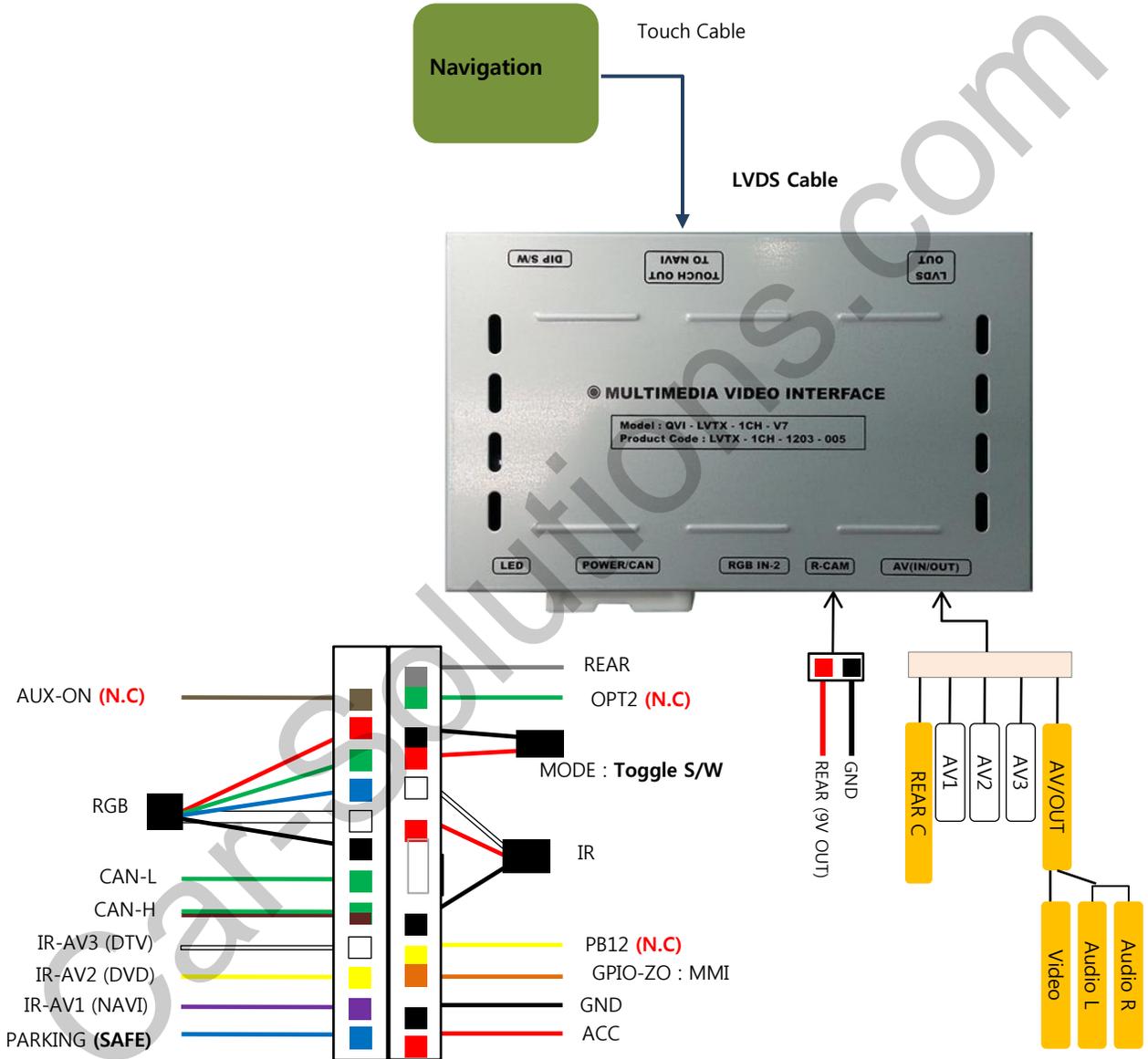
- ① LED
- ② POWER
- ③ RGB IN-2
- ④ R-CAM
- ⑤ AV(IN/OUT)
- ⑥ DIP Switch
- ⑦ TOUCH OUT TO NAVI
- ⑧ LVDS OUT
- ⑨ COMMAND_IN
- ⑩ LVDS IN
- ⑪ T/S OUTPUT
- ⑫ LCD_OUT
- ⑬ T/S INPUT



- SUB BOARD -

2. Installation

2.1 Diagram



2. Installation

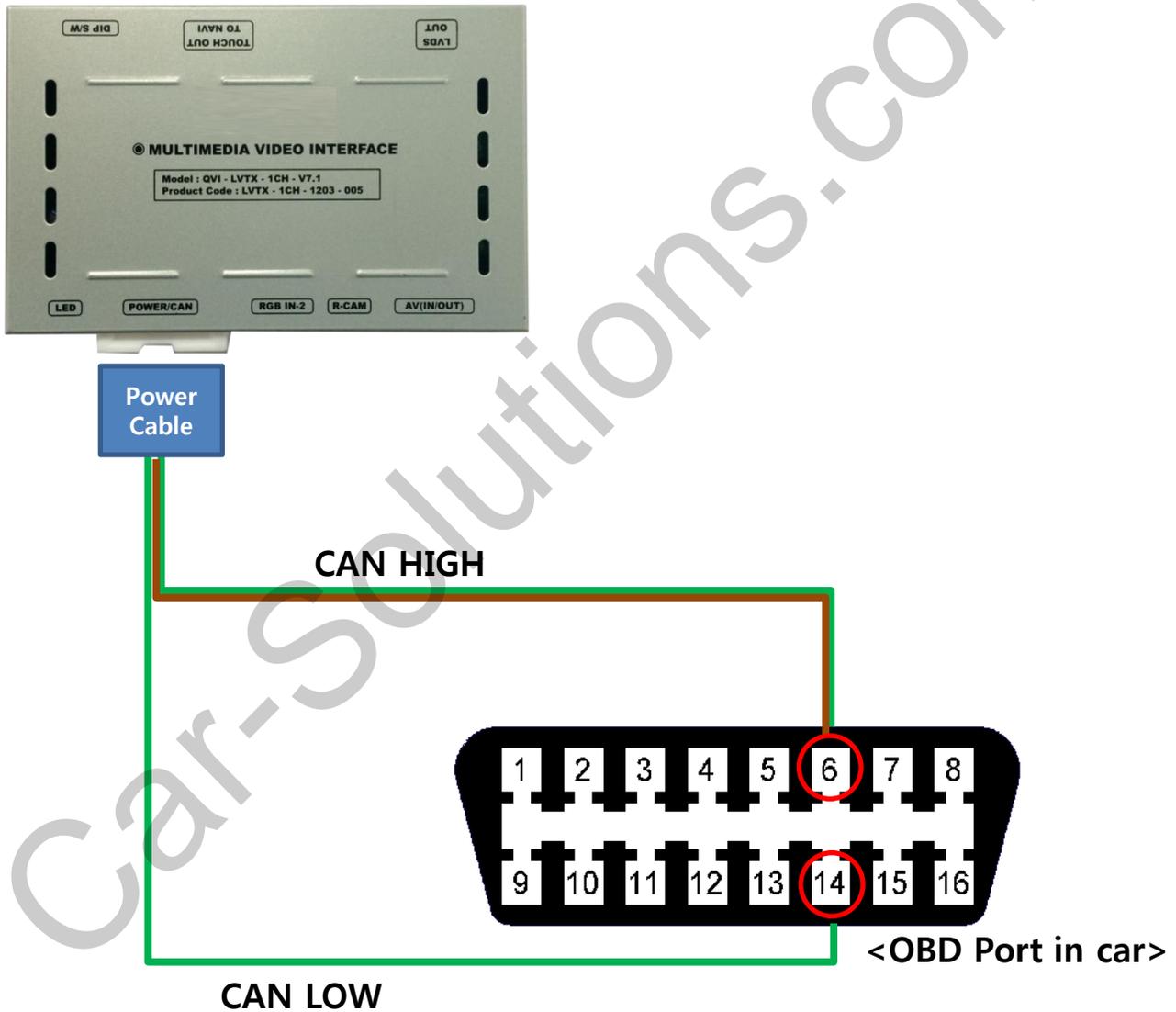
2.2 Cautions before Installation

- 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

2. Installation

2.3 Installation / CAN Wires

- ※ You will be able to find OBD port underneath a steering wheel.
 - Please connect CAN HIGH in power cable to the port number #6 in OBD
 - CAN LOW in power cable to the port number #14 in OBD



2. Installation

2.3 Installation



1) Please dismantle a monitor and disconnect LCD and cables.



2) A photo after disconnecting cables



3) Unscrew bolts shown in dotted line

2. Installation

2.3 Installation

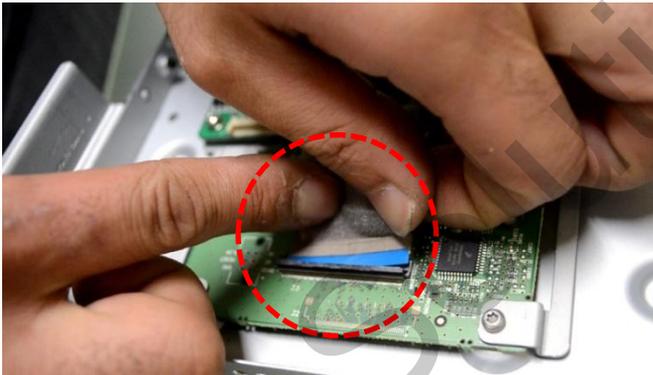


4) Put supplied bracket and sub-board as left photo.

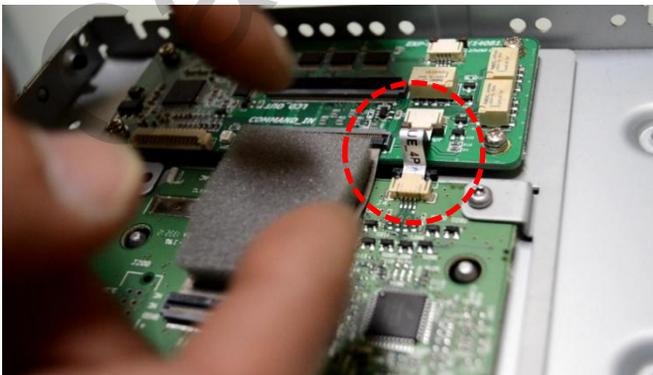


68P FFC → COMMAND_IN

4P FFC → T/S OUTPUT



5) Please connect the opposite side of 68pin FFC to OEM board.



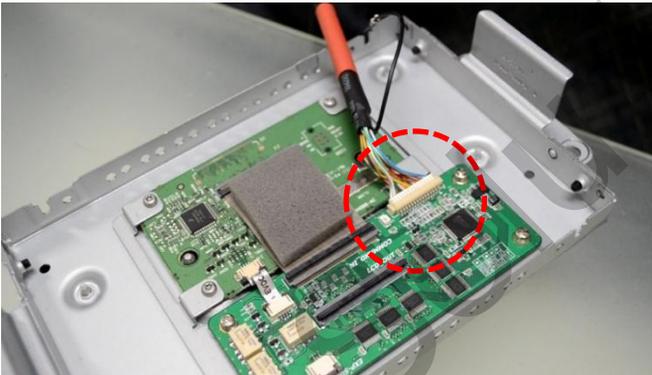
6) Please connect the opposite side of 4Ppin FFC.

2. Installation

2.3 Installation



7) Please refer to the left photo.



8) Please connect supplied LVDS cable to the sub-board shown in dotted line. Please connect ground cable as photo.



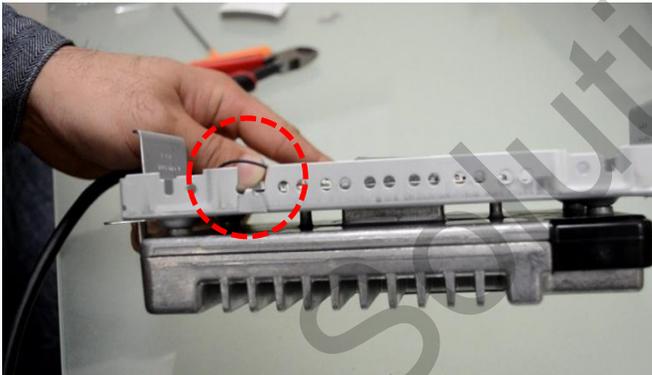
9) Please cut red marked part to place LVDS cable.

2. Installation

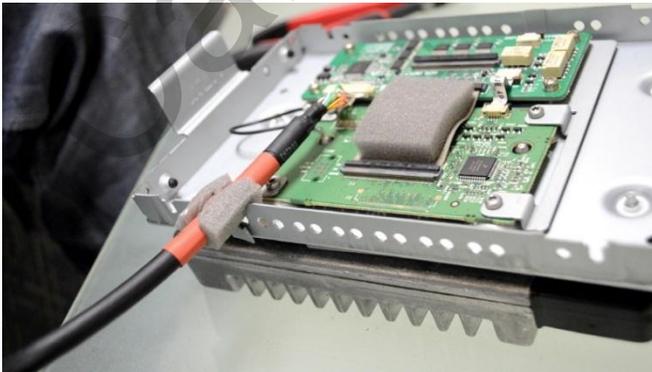
2.3 Installation



10) Please cut metal with a tool.



11) This is after cutting metal.



12) Please cover LVDS with protection material and place it.

2. Installation

2.3 Installation



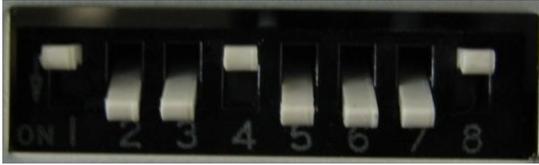
13) Please connect OEM cable to supplied sub-board.



14) Please assemble the monitor.
※ Please connect the opposite side of LVDS to the sub-board.

3. Setting

3.1 DIP Switch



※ ON : DOWN / OFF : UP

※ Example DIP S/W usage

- Input mode : A/V2, RGB(Navigation)
- External NAVI
- Rear Camera : Connect to CVBS4

- ▷ DIP S/W : 1 → OFF
- ▷ DIP S/W : 2,3 → ON(Input Skip)
- ▷ DIP S/W : 4 → OFF (A/V3 USEABLE)
- ▷ DIP S/W : 5 → OFF
- ▷ DIP S/W : 6 → OFF
- ▷ DIP S/W : 7 → ON (Rear Camera USEABLE)
- ▷ DIP S/W : 8 → OFF (Default)

PIN	기능	Dip S/W 선택
1	RGB Input Skip	ON : Skip RGB OFF : Display RGB
2	A/V 1 MUTE	ON : Skip A/V 1 OFF : Display A/V1
3	A/V 2 MUTE	ON : Skip A/V 2 OFF : Display A/V2
4	A/V 3 MUTE	ON : Skip A/V 3 OFF : Display A/V3
5	No use	
	Mode switch with OEM buttons	ON : Steering wheel Left "OK" OFF: Steering wheel "Voice"
7	Rear Mode	ON : External Rear Camera OFF : OEM Rear Camera
8	ON : OEM Navigation OFF : External Navigation (Default)	

※ 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.

3. Setting

3.2 Remote Control



* FACTORY MODE (Interface setting)
: Long-Press Left arrow button(◀) for 5sec
Or Press ▲ → ▼ → ▲ → MENU in order.

<i>Key</i>	<i>Function</i>
POWER & PIP	No use
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Upward
▼	Downward
◀	Leftward(Press 5sec to get in factory mode)
▶	Rightward(press 2 sec to reset all the data about user environment)

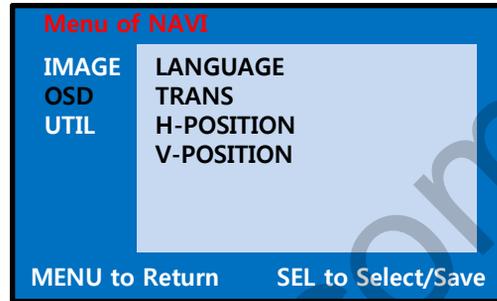
3. Setting

3.3 OSD (On Screen Display) / Analog RGB Mode



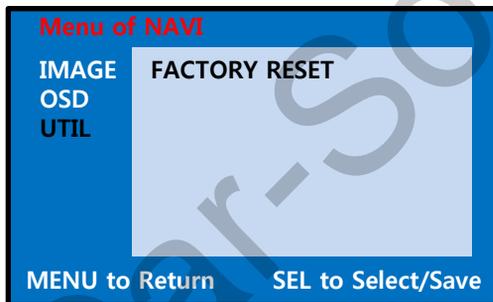
□ IMAGE

- * BRIGHTNESS
- * CONTRAST
- * SHARPNESS



□ OSD

- * LANGUAGE : Set OSD language (Only support English and Chinese)
- * TRANS : Adjust OSD transparency
- * H-POSITION : Move OSD horizontally
- * V-POSITION : Move OSD vertically

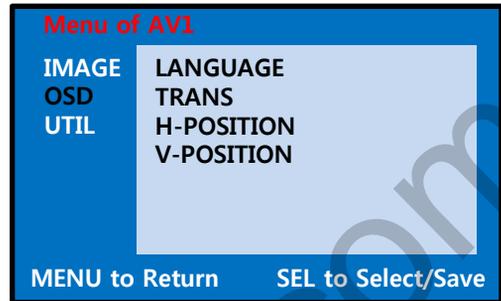


□ UTIL

- * FACTORY RESET
: Reset any changes in NAVI or DVD (Enable to reset color or OSD and unable to reset video position)

3. Setting

3.3 OSD (On Screen Display) / Video Mode

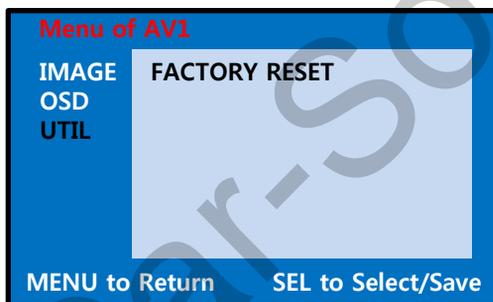


IMAGE

- * BRIGHTNESS
- * CONTRAST
- * SATURATION
- * HUE
- * SHARPNESS

OSD

- * LANGUAGE : Set OSD language (only support English and Chinese)
- * TRANS : Adjust OSD transparency
- * H-POSITION : Move OSD horizontally
- * V-POSITION : Move OSD vertically



UTIL

- * FACTORY RESET
: Reset any changes in NAVI or DVD (Enable to reset color or OSD and unable to reset video position)

3. Setting

3.4 Factory Mode

FACTORY mode – Press ◀ button 2 seconds long on the remote control.



□ IMAGE

H-POSITION : Move display horizontally
V-POSITION : Move display vertically



□ PARK

- * PARK ENABLE : Activate Parking Guide line
- * PARK SETUP : Adjusting the position of the parking guide line
- * REAR SELECT : Choose rear camera recognition
 - LAMP : Detecting the rear view camera via rear lamp (Installer must connect "Rear-C" cable of the power cable to the rear lamp of the car.)
 - CAN : Detecting the rear view camera by CAN signal (Installer must connect "CAN" cable of the power cable to the "CAN" cable of the car.)
- * SAFE ENABLE : If your car is connected with CAN cable and it is in "ON" state, you can NOT watch DVD or A/V except original image or navigation while driving. At that time the screen get back to the main (default : OFF)

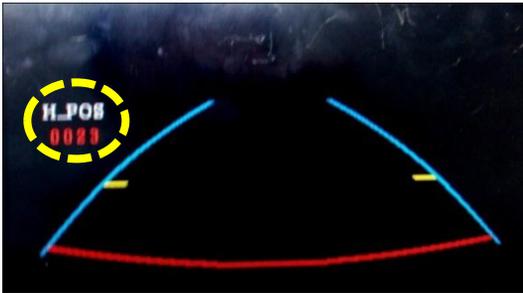
3. Setting

3.4 FACTORY MODE- IMAGE, PARK

FACTORY mode – Press ◀ button 2 seconds long on the remote control.

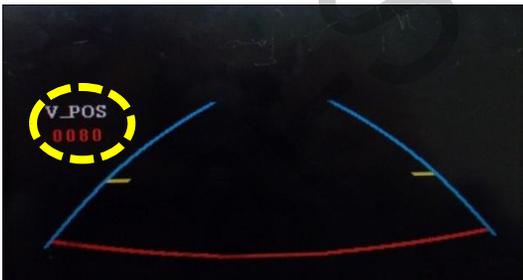
Go to Factory menu → PAS SETUP and press OK to set up the position of H-POS and V-POS in order

□ H-POS



You can adjust H-Position with right and left arrow buttons

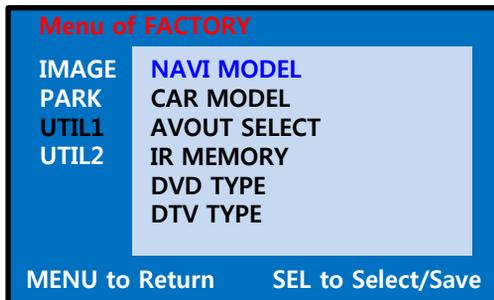
□ V-POS



You can adjust V-Position with up and down arrow buttons

3. Setting

3.4 FACTORY MODE-UTIL1



UTIL1 – NAVI MODEL

Select Navi model

DEFAULT,
KD900(WVGA)
MD7000(WVGA),
MYVI(WVGA)
PAPAGO(WVGA)
GN3000(WVGA)
ICUBE(WVGA)
MYVI(WVGA)
I-ONE(WVGA)

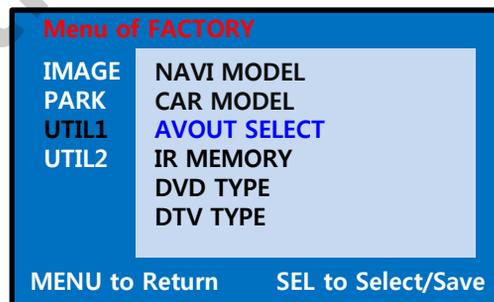
*** First, Set up the resolution of monitor and go to FACTORY/ IMAGE to set up the size and position of navigation.**



UTIL1 – CAR MODEL

Selecting car model

- Explorer
- Edge, F350



UTIL1 – AVOUT SELECT

Selecting background sound after switching navigation or original mode

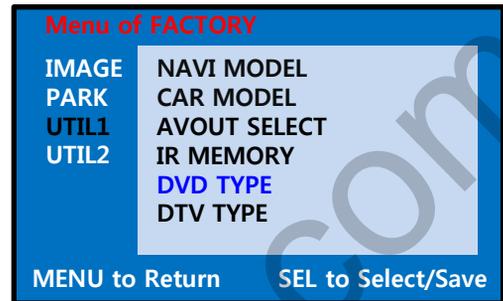
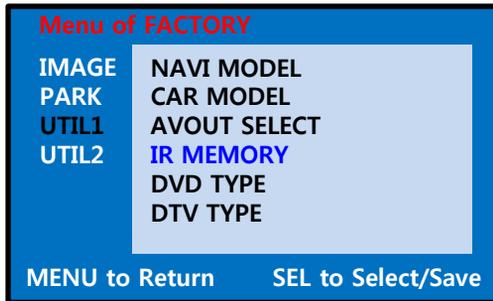
DEFAULT : Selecting AV sound which was played just before changing navigation or original mode from the AV mode

AV 1~3 : Sound of the selected AV source 1~3
support@car-solutions.com

3. Setting

3.4 FACTORY MODE-UTIL1

FACTORY mode – Press ◀ button 2 seconds long on the remote control.



UTIL1 – IR MEMORY

In order to control remote control image on screen, You need to register remote control values of DVD, DTV

※ To use this function, select USER in DVD/DTV type

UTIL1 – DVD TYPE

Set up DVD model



UTIL1 – DTV TYPE

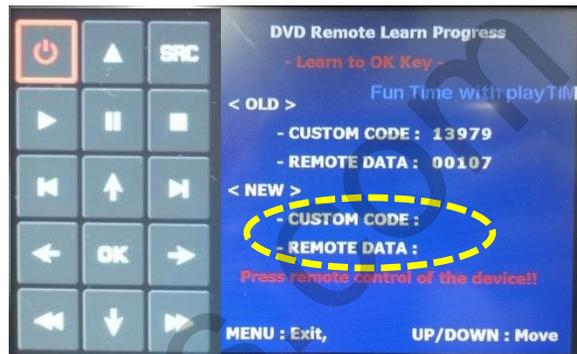
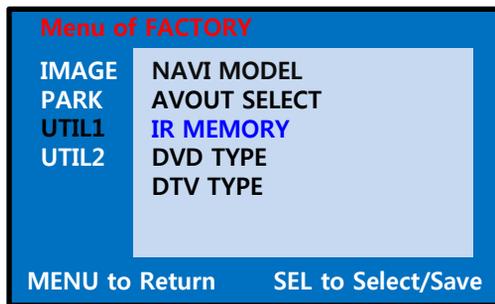
Set up DTV model

3. Setting

3.4 FACTORY MODE-UTIL1

FACTORY mode – Long Press ◀ button on the remote control.

□ UTIL1 – IR MEMORY



- ① First of all, press ◀ button on remote controller 2 seconds long or press UP→DOWN→UP→MENU button in order to access Factory mode. Choose IR MEMORY on UTIL2.

In IR MEMORY, you can choose AV source of DTV and DVD you want to use.

- ② Picture above shows DVD remote control button value input, select menu you want to save. (To register DVD remote control button value, select IR MEMORY – DTV and follow below instructions.

Example)

- a. After select OK button on OSD menu, press intended I-Drive button
- b. Indicated part above will flicker, and press POWER on DVD remote control. (continue to next page)

What is IR-MEMORY Mode?

IR-MEMORY is to allow touch screen to control other DVD or DTV (besides the existing,; for example : SANYO, NECVOX) by register remote control value.

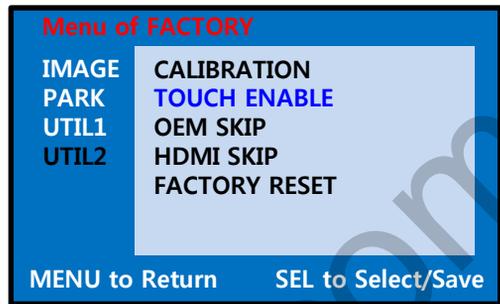
3. Setting

3.4 FACTORY MODE-UTIL2



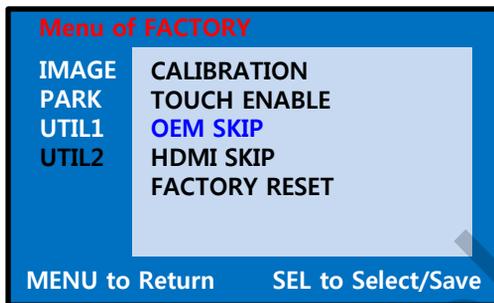
UTIL2 – CALIBRATION

Touch calibration



UTIL2 – TOUCH ENABLE

Whether to activate remote image after touching the screen.



UTIL2 – OEM SKIP

Selecting whether to skip OEM mode after ignition

ON(Not use) / OFF(use)



UTIL2 – HDMI SKIP

Selecting whether to use HDMI function or not

ON(Not use) / OFF(use)



UTIL2 – FACTORY RESET

FACTORY MODE RESET

4. Original button use



※ OK Button(Dip #6 – "ON")



※ VOICE Button(Dip #6 – "OFF")

5. Trouble Shooting

Q. I cannot change mode

- A. Check connection of Ground cable and IR Cable.
Check LED lamp is on, if not check connection of 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 dark or unsuitable color)

- A. Try to select "INITIAL" in OSD menu, if it does not work, inform to manufacturer.

Q. I cannot watch the rear camera on the screen

- A. Set the DIP switch #7 as state "ON".

Q. Set mode not appear

- A. Check DIP Switch.

Q. OEM image is not displayed.

- A. Check interface's LCD In/Out cable connection. If the status keeps on, inform to manufacturer.

Q. Screen only displays white color.

- A. Check LCD out cable is connected well, if this status keeps, inform to manufacturer.

Q. If External image is not shown and but OEM image works fine.

- A. Please swap the pin assignment of GVIF IN/OUT as follows, 123 <->456 and then swap purple cable with brown cable. after that please check if the image works fine.