

Manual Date : 2017.08.31

# Installation Manual

Video Interface for Renegade

Model : QPI\_LVTX\_RENE



# •Specification

Compatibility : 2017 JEEP RENEGADE

Components : Interface\* 1pcs, Subboard\* 1pcs

## Interface Input/Output specification

Input : Analog RGB\*1, A/V\*1, CVBS(Rear Camera)\*1

CVBS(Front Camera)\*1

Output : To LCD\*1

## Power Spec

Input Power : 8VDC ~ 18VDC

Consumption : 5WATT

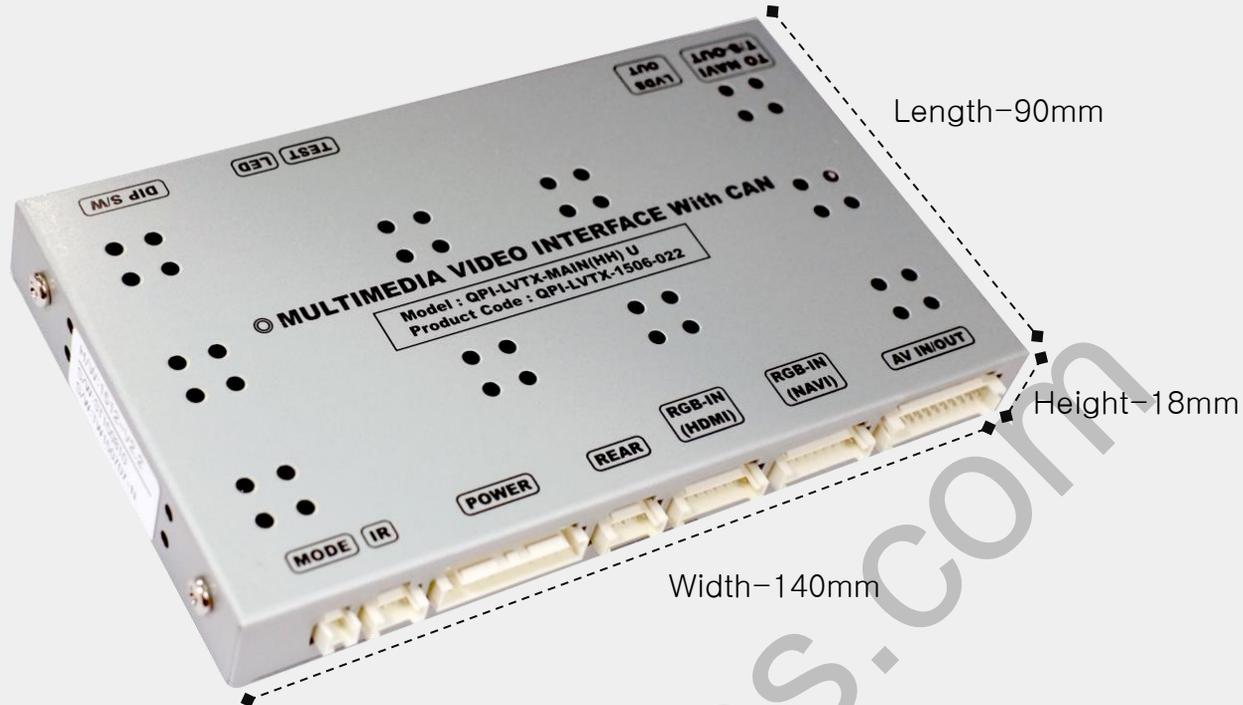
## Switch input mode

- External video sources skip function : able to control input videos on and off via DIP switches.
- Able to switch videos via the remote, button switch, and original buttons.
- Able to detect the rear view camera (back up camera) via CAN.

# •Features

- Control external videos sources (DVD, DTV) via Multi Media Touch
- Adjust external videos screen position
- Check the improved Screen Display (User Friendly Interface)
- Switch modes via original OEM button
- Supply power to rear view camera (Back up camera)
- Offer Dynamic Pas(Parking assistance system), moving parking line based on the steering wheel movement.

# •Product exterior



MODE(Button cable) | IR(IR cable) | POWER(Power cable) | REAR(Rear cable) |  
 RGB-IN-HDMI(Mirroring connection) | RGB-IN-NAVI(RGB navigation) |  
 AV IN/OUT(AV cable) | TO NAVI T/S OUT(NAVI touch cable) | LVDS-OUT(Subboard)  
 TEST(No use) | LED | DIP S/W(Dip switch setting)

# •Components



Sub board \* 1ea  
(QCPASS01134)



Power \* 1ea  
(HPOWER0180)



TOUCH \* 1ea  
(HTOUCH0004)



NAVI \* 1ea  
(HRGBCA0013)



AV \* 1ea  
(HAVCAB0002)



LVDS \* 1ea  
(HLVDSC0047)



FFC 8P\* 1ea  
(FFCBAL0079)



FFC 40P\* 1ea  
(FFCBAL0078)



R-CAM \* 1ea  
(HARETC0002)



BUTTON \* 1ea  
(HARETC0001)



IR \* 1ea  
(HIRCAB0002)



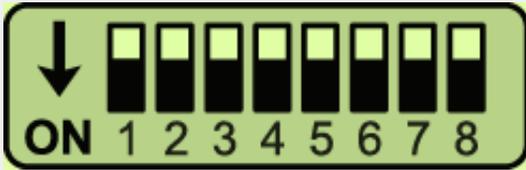
리모콘 \* 1ea  
(REMOTE0001)

FFC 34P\* 1ea  
(FFCBAL0091)

support@car-solutions.com

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# DIP SWITCH



※ ON : DOWN / OFF : UP

PIN	Function	Dip S/W
1	RGB mode	OFF : Display RGB(Navi) Mode ON : Skip RGB(Navi) Mode
2	AV1 mode	OFF : Display AV1 Mode ON : Skip AV1 Mode
3	AV2 mode	OFF : Display A/V2 Mode ON : Skip A/V2 Mode
4	Front camera	OFF : Display A/V3 Mode ON : Skip A/V2 Mode
5		No use(Off)
6		
7	Rear Camera	ON : Aftermarket rear camera OFF : OEM rear camera
8	Car setting	ON : RENEGADE

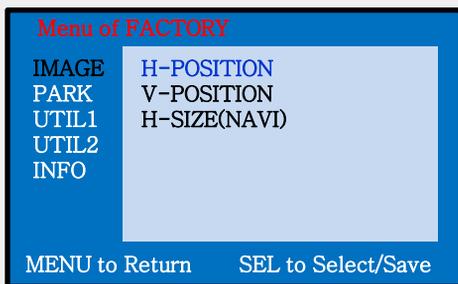
※ Please make sure to disconnect and reconnect the power cable after changing the dip switch setting. Otherwise, new dip switch setting will not be applied.

# Remote control



Key	FUNCTION
POWER & PIP	NO USE
MENU	Activate Factory menu
OK	Selection, changing image display
▲	Up
▼	Down
◀	Left( Access the factory mode if the button is pressed for 2 seconds)
▶	Right (Activate factory mode if the button is pressed for 2 seconds)

# • Factory Setting

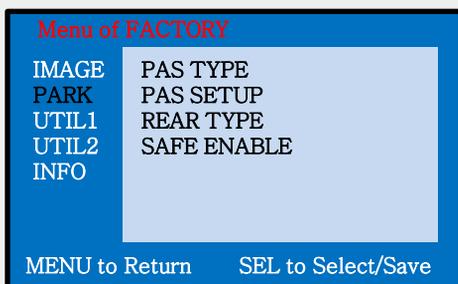


## Adjust the position and size of image

**H-POSITION** : Move the image horizontally

**V-POSITION** : Move the image vertically.

**H-SIZE(NAVI)** : Adjust the size of navigation image horizontally

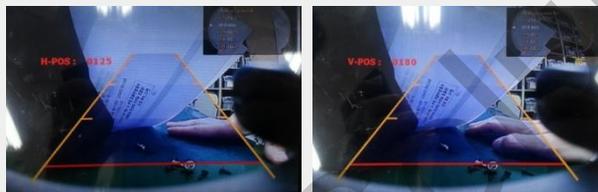


## Setting for rear camera

**PAS TYPE** : Parking guideline setting

- NOT USED : No use parking guideline
- PAS ON : Selecting Dynamic parking guide line
- PAS OFF : Selecting fixed parking guide line

**RAS SETUP** : adjusting the position of the parking guideline



<H-POSITION>

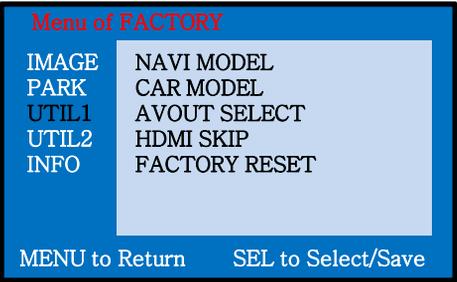
<V-POSITION>

**REAR TYPE** : 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** : Able/unable to display the image of external modes while driving(Default: Off)

# • Factory Setting



## Select Navigation&Car model

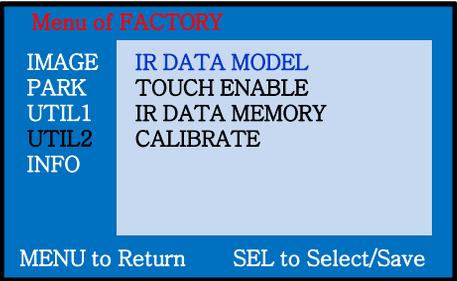
**NAVI MODEL** : Select RGB Navigation model

**CAR MODEL** : No use

**AVOUT SELECT** : Select background mode sound via Car Aux(AV1, AV2, Default)

**HDMI SKIP** : Able to skip HDMI mode

**FACTORY RESET** : FACTORY mode reset.



## Setting for other options

**IR DATA MODEL** : Resister IR Memory of DVD, DTV (Default, User)

**TOUCH ENABLE** : Activate/Deactivate UI remote touch

**IR DATA MEMORY** : Enter Remote values of DTV, DVD

**CALIBRATE** : Activate Touch calibration

✘ Refer to IR manual for IR settings



Able to check the version of product

# •OEM button

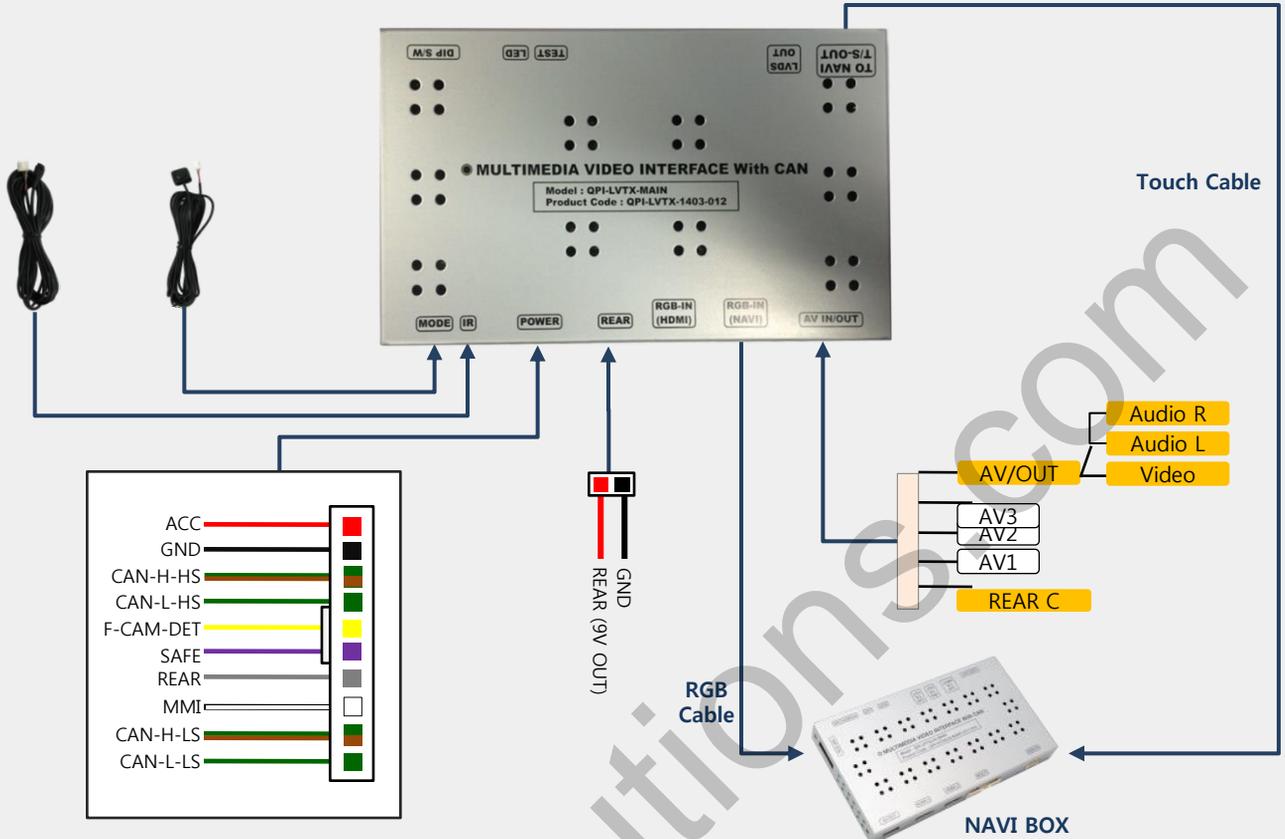
- ※ Long Press – Mode switch (RGB→AV1→AV2→F-CAM)
- Short Press – Return to OEM mode



- ※ Long press – Activate the front camera  
(Front camera image will disappear 10 seconds later)

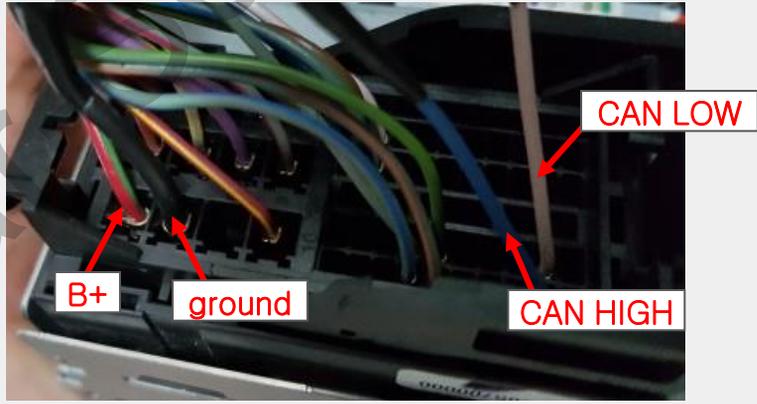
- ※ Return to OEM mode if other buttons are pressed

# • Installation Diagram



# • CAN / ACC Wire connection

※ Find OEM cables behind the command



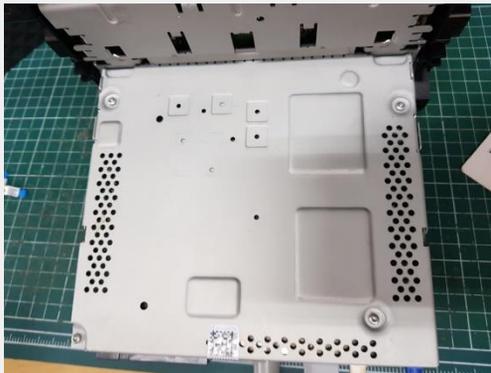
### ※ Connection

- Connect supplied CAN-H-HS wire(Green+Brown) to OEM CAN HIGH wire(Blue)
- Connect Supplied CAN-L-HS wire(Green) to OEM CAN LOW wire(White)
- Connect supplied ACC wire(Red) to OEM B+ wire(Red+Green)
- Connect supplied GND wire(Black) to OEM Ground wire(Black)

※ [support@car-solutions.com](mailto:support@car-solutions.com) [car-solutions.com](http://car-solutions.com)  
*※ Cable position might be different based on certain car models but the color of wires is same*

# Subboard installation

1



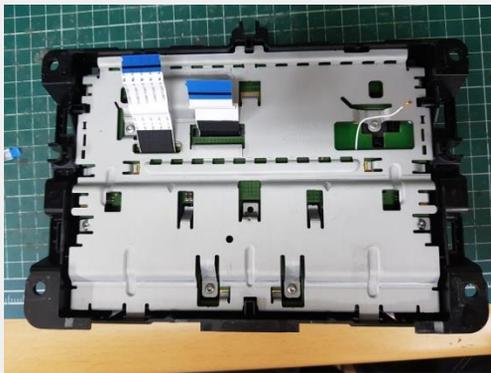
Remove the monitor

2



Disassemble the monitor and headunit

3



Place the monitor as show above

4



Disassemble the metal case

5



Remove the FFC cable from the marked place

6



Place the supplied subboard on the marked place and connect OEM cables

7



Connect the supplied touch FFC cable (90° curved shape)

8



The supplied FFC cable shall be connected between OEM board and subboard

# • Subboard installation

9



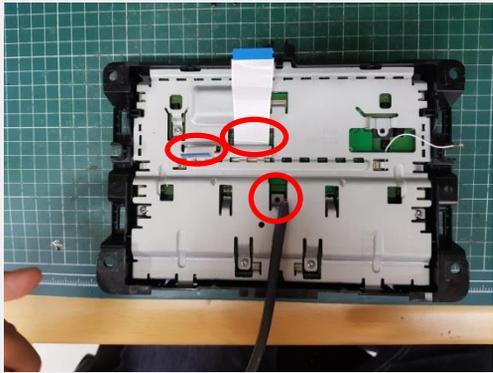
Connect the OEM FFC cable which was removed from 5 to marked place

10



Connect LVDS cable to the marked place

11



Take out all the cables through the hole and assemble the metal case again

# • 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. Press ► button on the remote control for 2 seconds and check how it goes, 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 no image is shown on screen after connecting CAN wire with Park gear.**

A. Go on the "FACTORY MODE", check "UTIL-Rear Select". If "LAMP", change the setting as "CAN" with the remote control. (※ when connecting Rear-C wire of LAMP power cable to Backup lights, Setting should be like this / CAN : if controlling rear camera with CAN wire)