Installation Manual

Android Interface for Volvo 2017~
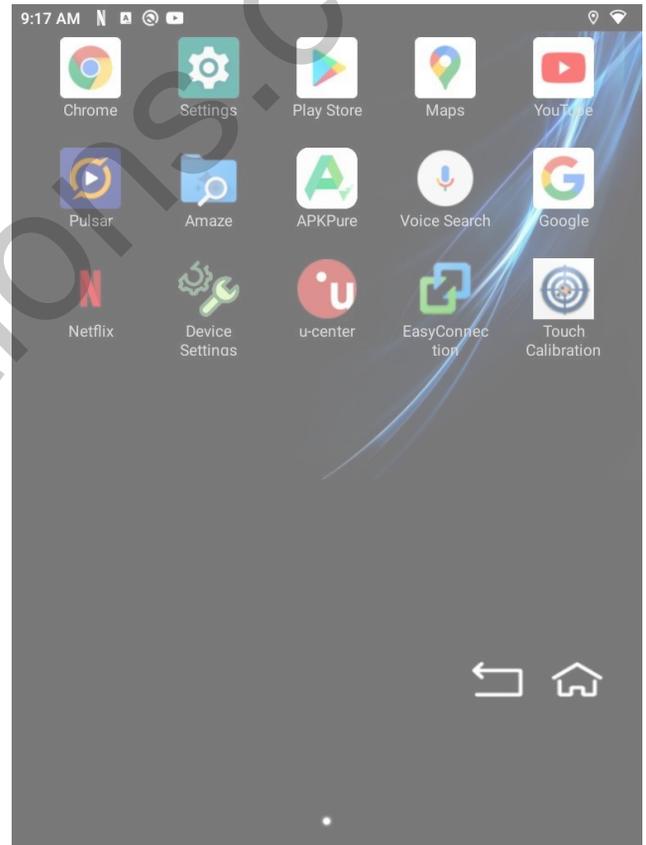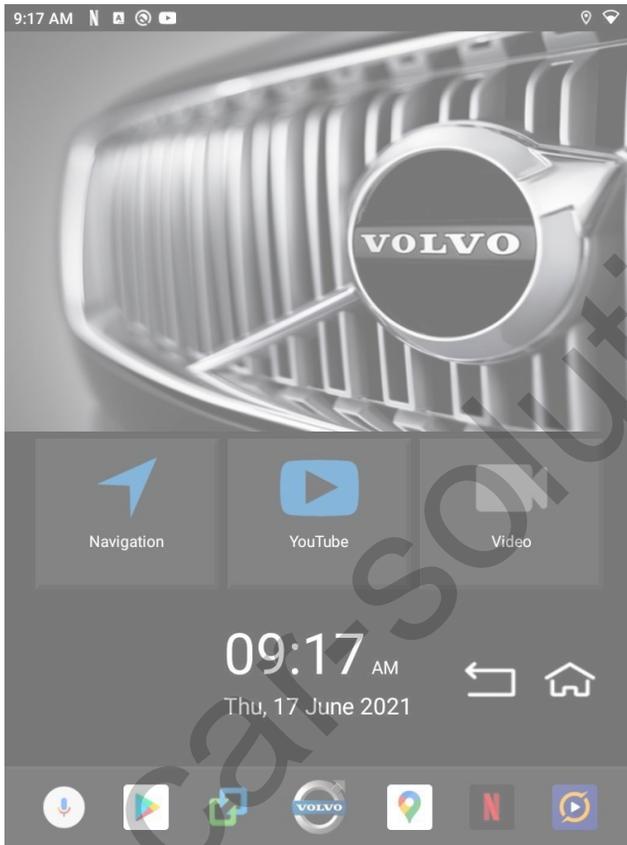
Specification

Car Compatibility : **Volvo XC90, S90 2017~**

CATEGORY		SPECIFICATION
OS Version		*10.0*
CPU		*ARM Cortex-A72 + Cortex-A53@2.0GHz (HEXA CORE)* *ARM Mali-T860 (QUAD CORE) - **for GPU***
Memory	**RAM**	**4GB LPDDR4**
	Internal Storage	**32 GB eMMC**
	External Storage	*microSD slot (MAX 128GB)*
Network	**WI-FI**	*802.11 a/b/g/n/ac (2.4 GHz / 5 GHz)* *Internally on board with Antenna*
	Bluetooth	*4.0 (Internally on board with Antenna)*
	GPS	*GPS + GLONASS*
Video	**Out**	*HDMI x 1*
	In	*HDMI x 1, FCAM x 1, RCAM x 1*
Audio	**Out**	*AUX + SPK + BT + FM TX*
	In	*MIC*
USB Port		*HOST x 2* *(Internal 2.0 Port x 1 + 3.0 Port x 1)*
Touch Input		*UART*
Resolution		*768 x 1024*
Language		*Multi-Language*
Power		*Input : DC 9V ~ 18V* *Consumption : 10 Watt*
Operation Temperature		*-10℃ ~ 70℃*
Storage Temperature		*-20℃ ~ 80℃*

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Components

MAIN BOARD

QCPASS1559

POWER CABLE

HPOWER0266

LCD CABLE

HLCDCA0017

MULTI1 CABLE

HARETC0360

MULTI2 CABLE

HARETC0359

GPS CABLE

GPSANT0013

LCD EXTENSION

QCPASS0638

MIC CABLE

MICPHO0003

SPK CABLE

SPEAKER007

IR CABLE

HIRCAB0002

BUTTON CABLE

HARETC0001

REMOTE CTRL.

REMOTE0001

DIP Switch Settings
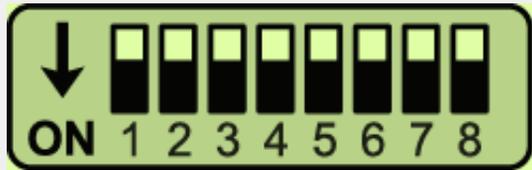
* ON: DOWN / OFF: UP

Please make sure to disconnect the power cable of interface and reconnect to apply dip switch setting whenever changing DIP switch.

PIN	FUNCTION	Dip S/W SELECT
1		No Use (OFF)
2		No Use (OFF)
3		No Use (OFF)
4	GPS Power	OFF : Using Provided GPS ON : Using OEM GPS
5		No Use (OFF)
6	Front Camera	OFF : Ext. Front Camera Mode ON : OEM Front Camera Mode
7	Rear Camera	OFF : OEM Rear Camera Mode ON : Ext. Rear Camera Mode
8		No Use (OFF)

Remote Control

Key	*FUNCTION*
POWER & PIP	*N/C*
MENU	*Activating OSD menu*
OK	*Making a selection, changing image display*
▲	*Moving upward*
▼	*Moving downward*
◄	*Moving leftward* *(If you press this button 2 seconds long, you can access the factory mode)*
►	*Moving rightward* *(If you press this button 2 seconds long, you can reset all the data about user environment)*

Factory Settings

IMAGE	BRIGHTNESS
PARK	CONTRAST
FUNC	SATURATION
UTIL	HUE
INFO	SHARPNESS

IMAGE

Setting for image display

IMAGE	PAS TYPE : PAS ON
PARK	PAS SETUP
FUNC	REAR TYPE : CAN
UTIL	AUTO FCAM : OFF
INFO	
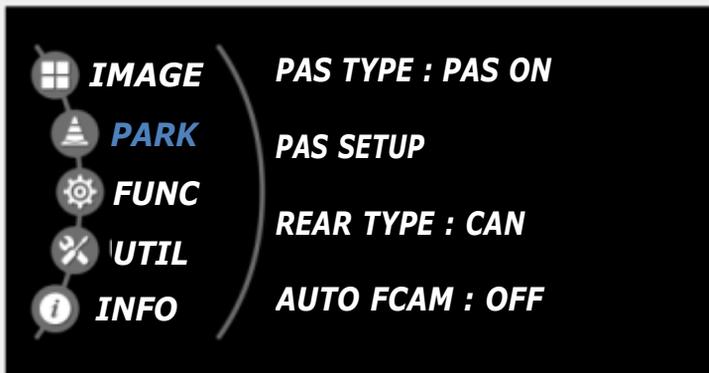
PARK

PAS TYPE:

Select parking line type.

NOT USED: Do not use parking line

PAS ON: No Use

PAS OFF: Use fixed parking line

PAS SETUP:

Move the position of parking line.

REAR TYPE:

Choose rear camera recognition.

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)

LAMP: Detecting the rear view camera via "Grey Rear" wire. (Installer must connect "Rear-C" cable of the power cable to the rear lamp of the car)

AUTO FCAM:

Front Camera Display Setting

Factory Settings

FUNCTION

CAR MODEL: XC90/XC60

- Select XC90 for gear CAN from OBD/Driver's seat
- Select XC60 for gear CAN from passenger's door frame

HD1 MODEL: HDMI device settings SE-TV/I-VIEW/NONE (HDMI SKIP)

RESET ALL : NO

UTIL

RESET ALL:

Factory mode reset (YES/NO)

INFORMATION

SW : 210421

HW : V1.0

INFO

System version information

Installation Diagram
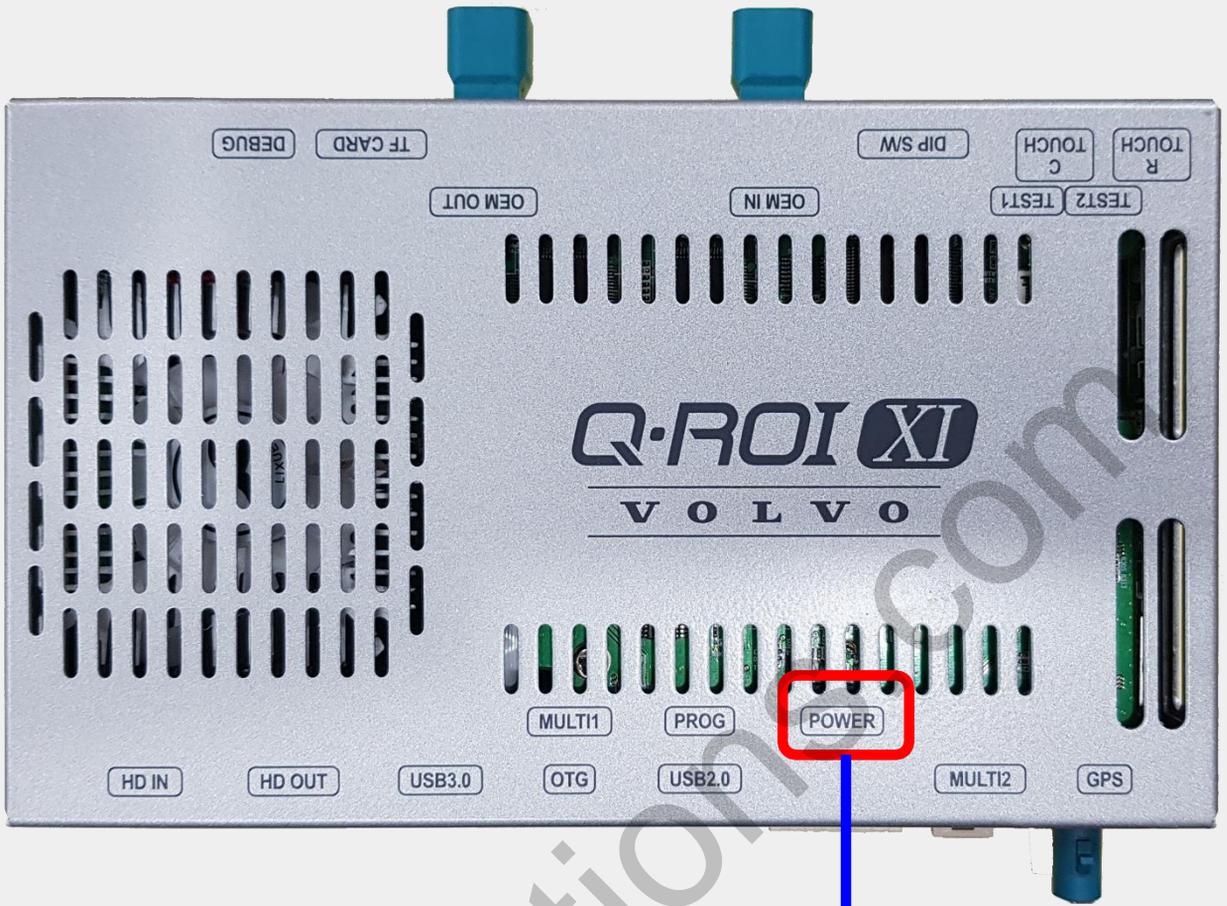
P1	COLOR	SIGNAL
1	RED	ACC
2	BLACK	GND
3	WHITE	CAN-H
4	YELLOW	CAN-L
5	N.C	N.C
6	N.C	N.C
7	RED	*ADC*

* Please refer to the next page for the multi cable and power cable drawings.

Power Cable Drawing

P1

51I03-0700 : MOLEX

| 7 | 6 | 5 | 4 | 3 | 2 | 1 |

HPOWER0200

3A

A
D
C

CAN-L
CAN-H
GND
ACC

Multi1 Cable Drawing

P1

MOLEX : 501646-1400

P/N LABEL

F-CAM

R-CAM

REMOTE

TOGGLE

P2

P3

Multi2 Cable Drawing

P1

MOLEX : 5OI646-I600

수축튜브 씌우기

HARIT0039

R-OUT

L-OUT

SPK

V-OUT

UART-TB

STEREO JACK 2.5
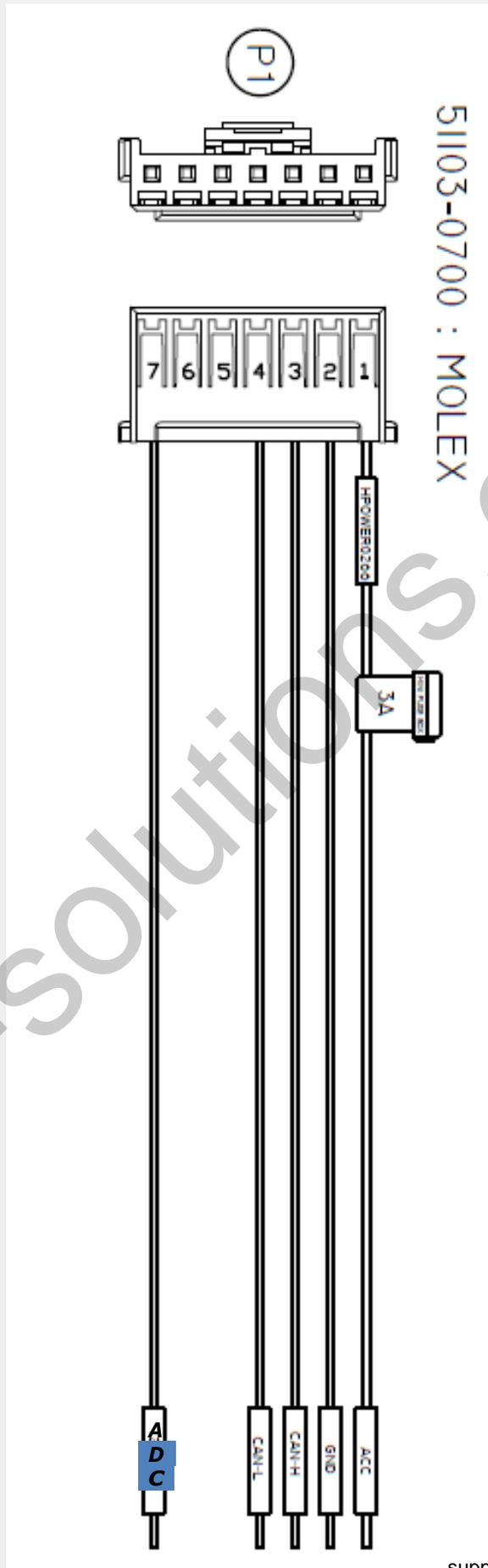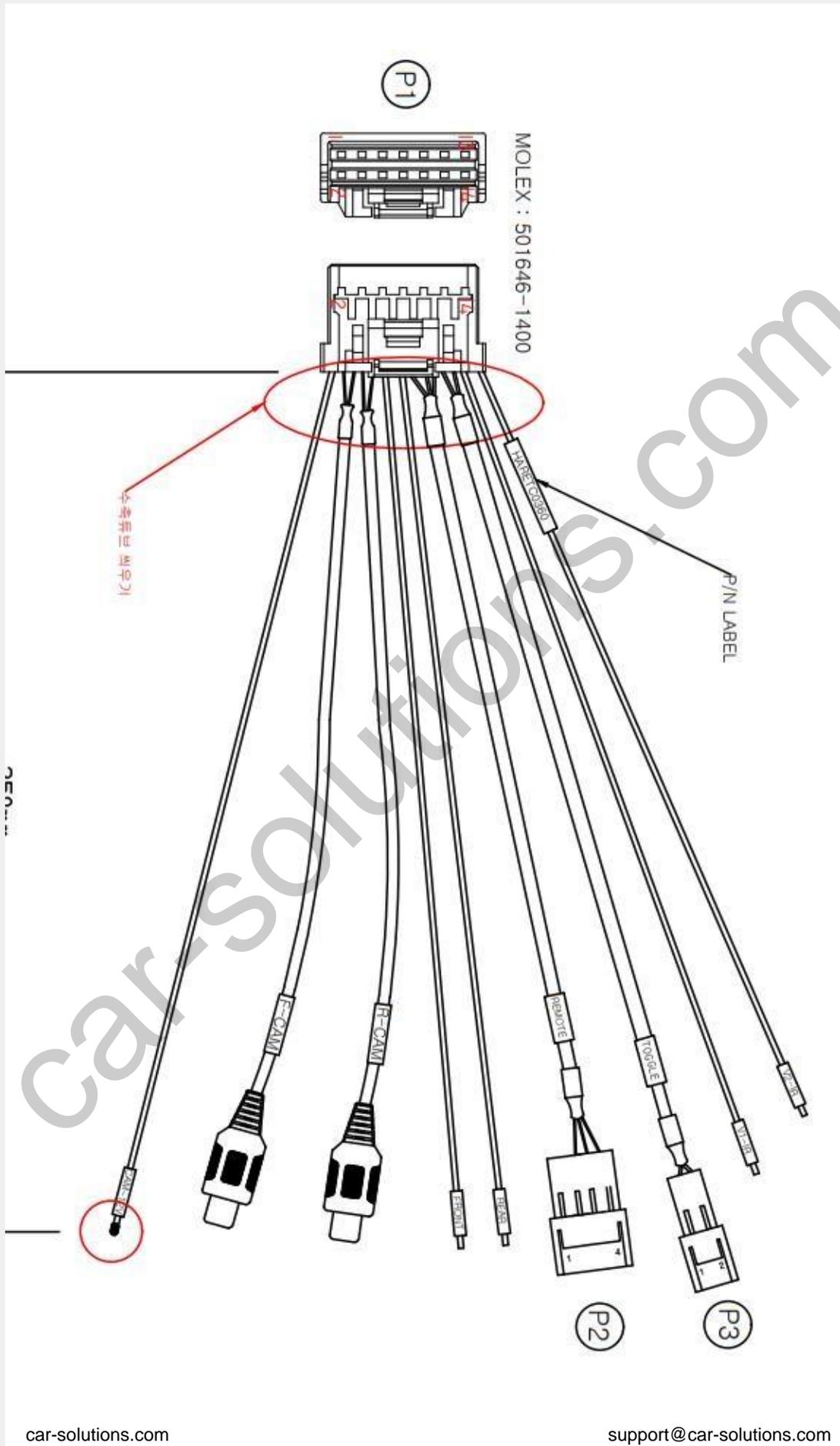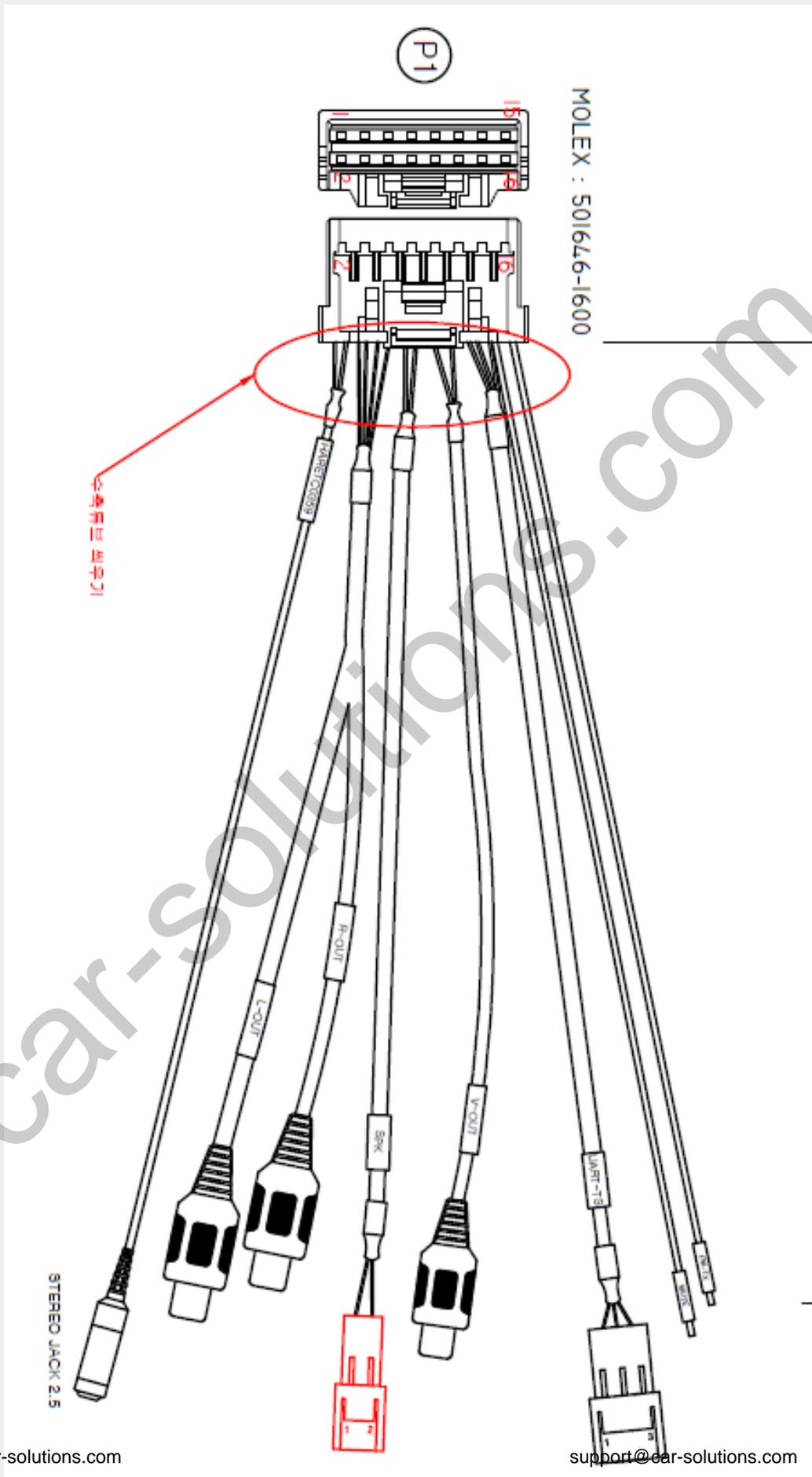
Gear CAN Connection_ OBD

* Find OBD cable under the driver's seat
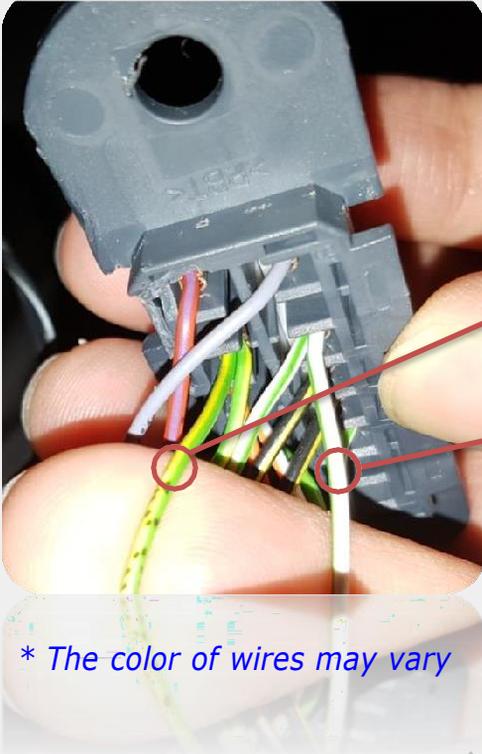
CAN Low: this cable is connected to
CAN1-L (#4 pin) of the supplied power cable

CAN High: this cable is connected to
CAN1-H (#3pin) of the supplied power cable

* The color of wires may vary

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Gear CAN Connection_ Under Driver's Seat

In case CAN wires are not located at OBD parts,

Plz find below wire Under the driver's seat (CAN data is same as OBD)

Car location	Wire color	Signal
Front / Left BMI module	Yellow/orange	12V reverse
Front / Left BMI module	Green/yellow	CAN-LOW
Front / Left BMI module	White/Green	CAN-HIGH
Front / right Fuse box	Blue/yellow	ACC Ignition feed (12V)
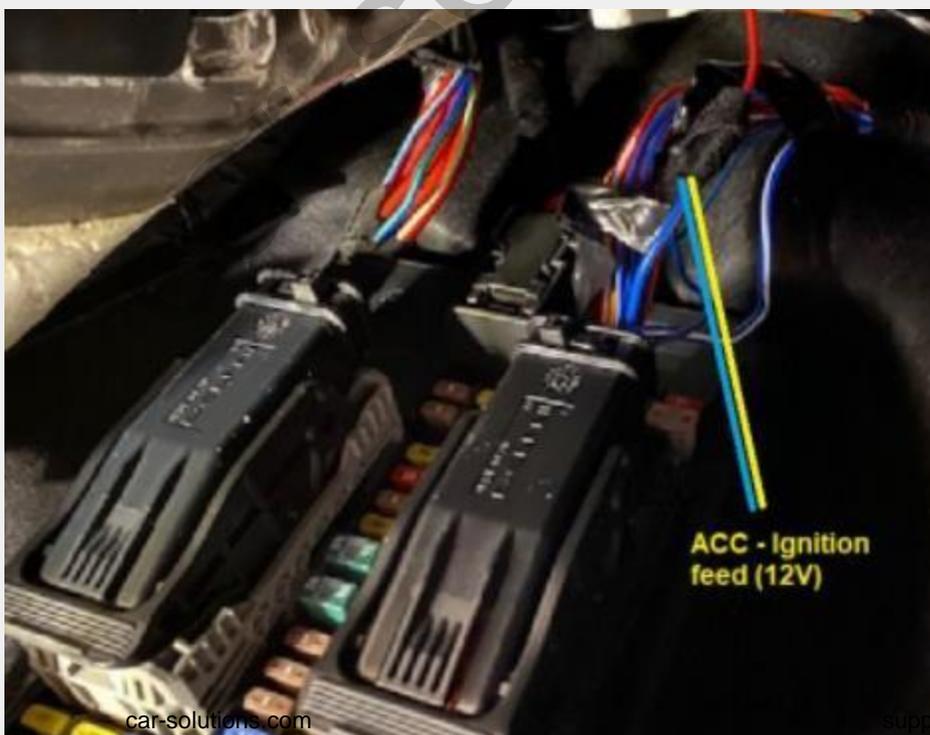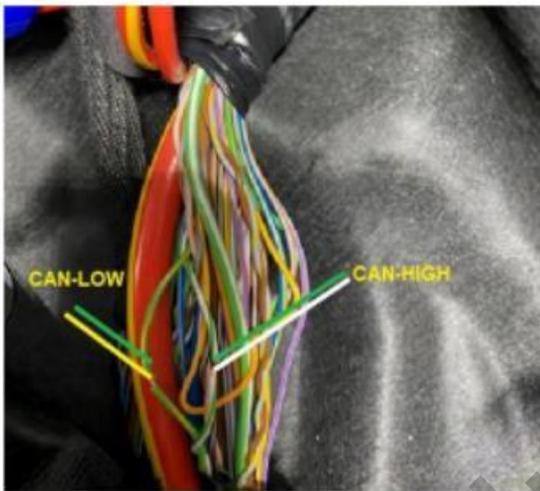
Gear CAN Connection_ Passenger's Door Frame

In case CAN wires are not located at OBD or Under the Driver's seat,

Plz find below wire Under the passenger's door frame.
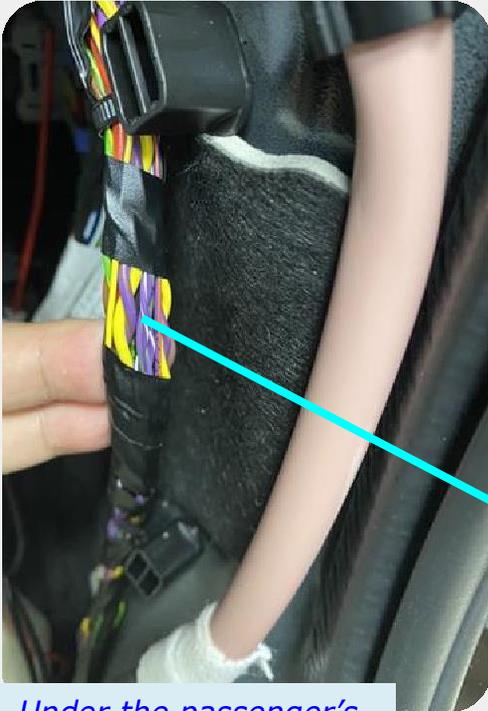
Under the passenger's
door frame
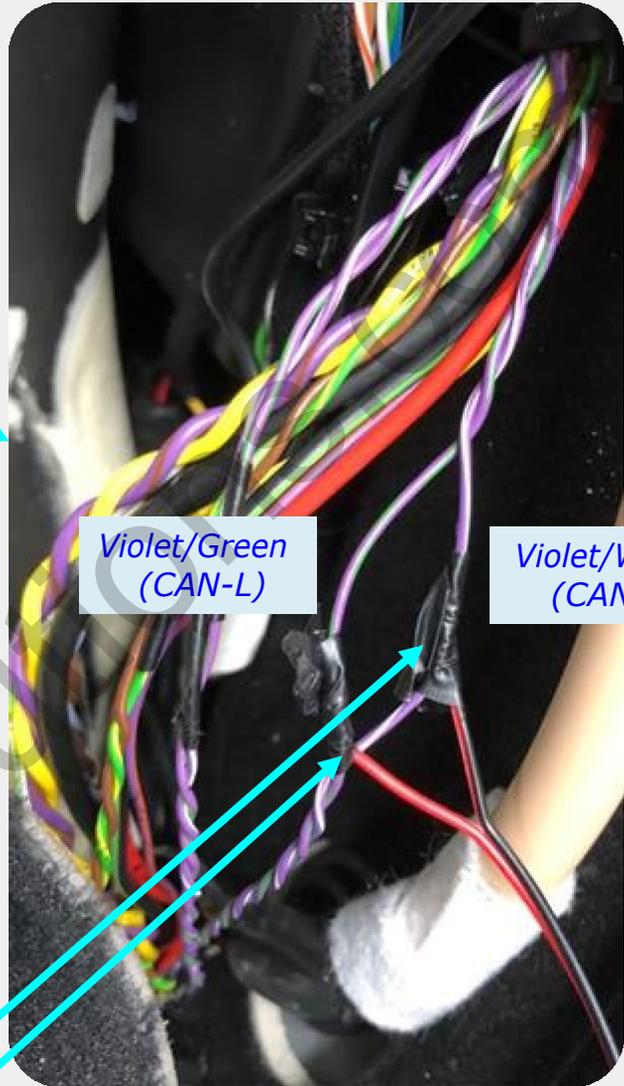
Violet/Green
(CAN-L)

Violet/White
(CAN-H)

P1	COLOR	SIGNAL
1	RED	ACC
2	BLACK	GND
3	WHITE	CAN-H
4	YELLOW	CAN-L
5	N.C	N.C
6	N.C	N.C
7	RED	*ADC*

LCD Cable Connection

Find OEM blue cable on the back side of the monitor
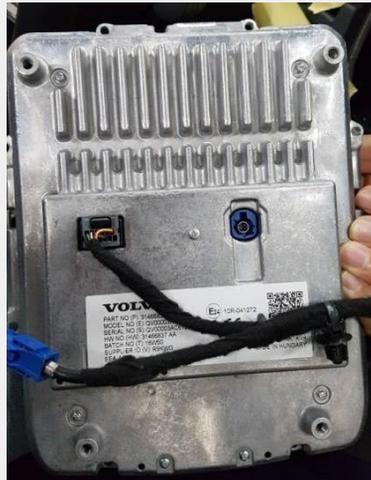
Remove the OEM blue cable
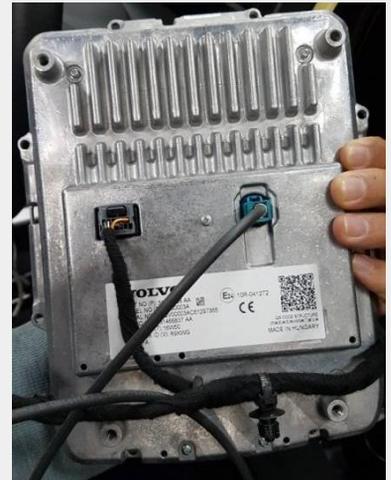
Connect the supplied LCD cable to the same place.

OEM cable

② **Monitor**

①

Q·ROI XI
V O L V O

1. Connect Blue OEM cable to LCD extension connector and the supplied LCD cable is connected between LCD extension connector and LVDS-IN of the interface
2. Also, the supplied LCD cable is connected between the monitor and LVDS-out of the interface

ADC Connection to Use OEM Button

* *Find the cable behind the monitor*

ADC(#11pin) : this cable is connected to
BUTTON1(#7pin) of the supplied power cable
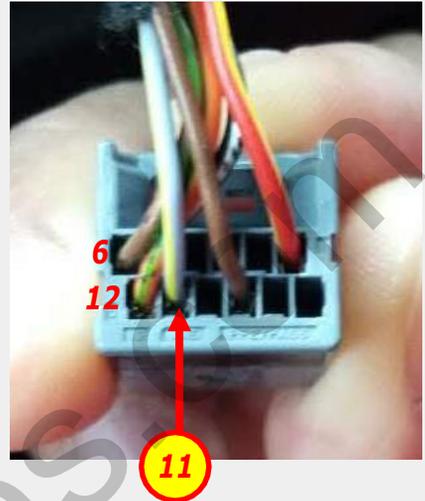
Activation with OEM Button

* Please press the Home button twice for the mode switch.

* Short press : Back to OEM

Split Screen on Rear Camera Mode

Please press highlighted button for 3 secs long or short press PIP button on the remote control to change screen display ratio.

Split screen display on Rear Camera Mode

OEM PDC
Or
Camera

Full screen display on Rear Camera Mode :

1) Rear Camera mode

2) OEM PDC or OEM Camera mode

1

2

OEM PDC
Or
Camera

Cautions Before Installation

1. *Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.*

2. *Power cable should be separated when connecting interface.*

3. *Should be no any electronic devices or magnetic pole around installation place.*

4. *All steps of installation should be done by well-trained specialist.*

5. *Dismantling without manufacturer's permission cannot be guaranteed, (No permission to break attached label on the board.)*

6. *Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.*

7. *According to our sales policy, any problems caused by user's mistake, careless cannot be guaranteed.*

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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)