

Installation Manual

Multimedia Interface for Chevrolet Trailblazer /
Opel Insignia 2020

QHLI-CAMARO



Specification

Compatibility:

Opel Insignia 7" 2020

Chevrolet Trailblazer 8" 2020

Chevrolet Colorado 8" 2022

- **Support Multi-Touch Function**
- **Mode change with OEM button**
- **Support moving PAS Line on rear camera mode**

Interface Input / Output specification :

Input:

LVDS x1

A/V x2

CVBS(Front Camera) x1

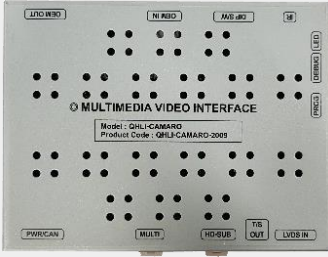
CVBS(Rear Camera) x1

HDMI x1 [Optional]

Output:

AUDIO OUT x1

Components



MAIN BOARD
QCPASS1474



POWER CABLE
HPOWER0250



LCD CABLE
HLCDCA0056



AV CABLE
HAVCAB0066



REMOTE CTRL.
REMOTE0001



IR CABLE
HIRCAB0002



BUTTON CABLE
HARETC0001



UART CABLE
HTOUCH0015

Components with Options

LCD Cable IN/OUT for Colorado Old Model [Optional]



6P male to 12P
male LCD Cable
HLVDSC0073



6P female to 12P
male LCD Cable
HLVDSC0074

Components with Options

HDMI 480P 1Port Sub Board [Optional]



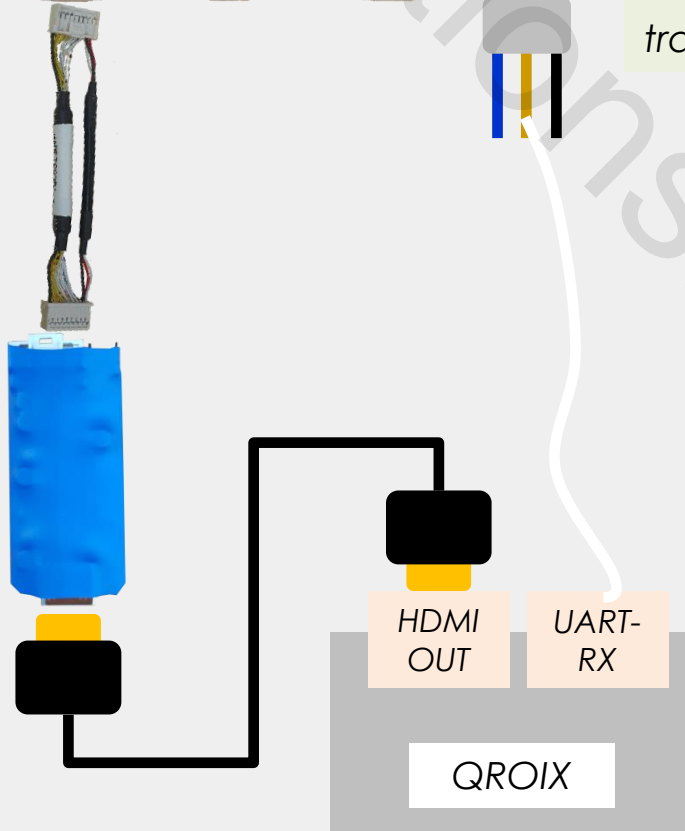
HDMI-SUB
QCPASS1435



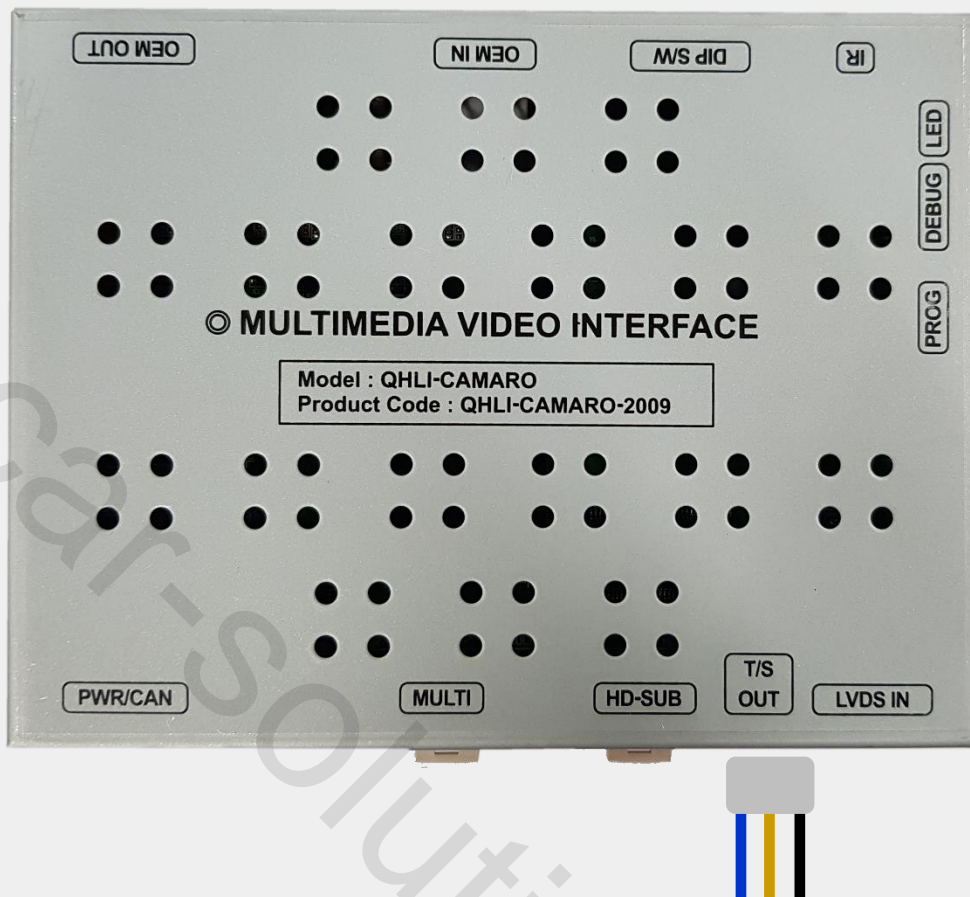
HDMI-SUB Cable
HARETC0327



T/S OUT Pin #2 (middle) is used for touch data transmission (UART-TX)

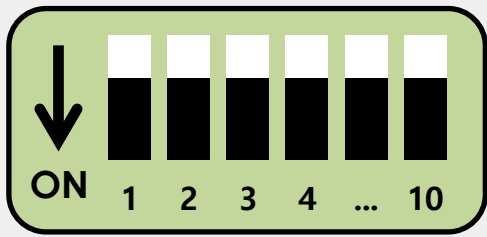


Cable Connection



1. **PWR/CAN:** Connect provided power/CAN cable
2. **MULTI:** Connect Multi cable
3. **HD SUB:** for HD 1P Option Board connection
4. **T/S OUT:** Connect UART 3P cable, Pin #2 (middle) used for touch data transmission [[UART-TX](#)]
5. **LVDS IN:** LVDS Input (QROIX)
6. **OEM IN:** Connect one end of the supplied LCD cable and the other end to the OEM head unit
7. **OEM OUT:** Connect OEM LCD cable coming from the OEM monitor
8. **DIP S/W:** DIP SWITCH setting

DIP Switch Settings

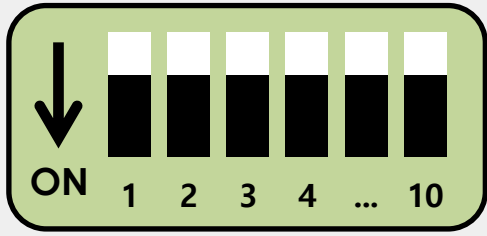


*** ON: DOWN / OFF: UP**

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

PIN	Dip S/W SELECT
1	OFF : LVDS Mode ON : LVDS Mode Skip
2	OFF : HDMI Mode ON : HDMI Mode Skip
3	OFF : AV1 Mode ON : AV1 Mode Skip
4	OFF : Connect ACC and ACC only mode ON : Connect B+ and CAN sleep mode
5	OFF : Ext. Front Camera Mode ON : OEM Front Camera Mode
6	OFF : OEM Monitor 1280 x 768 ON : OEM Monitor 800 x 480
7	OFF : OEM Rear Camera Mode ON : Ext. Rear Camera Mode
8	OFF : OEM Screen Relay Switch -> (Not Support Monitor Home button for mode change) ON : OEM Screen PIP Switch -> (Support Monitor Home button for mode change)
9	Car model setting, plz check next page.
10	

DIP Switch Settings



*** ON: DOWN / OFF: UP**

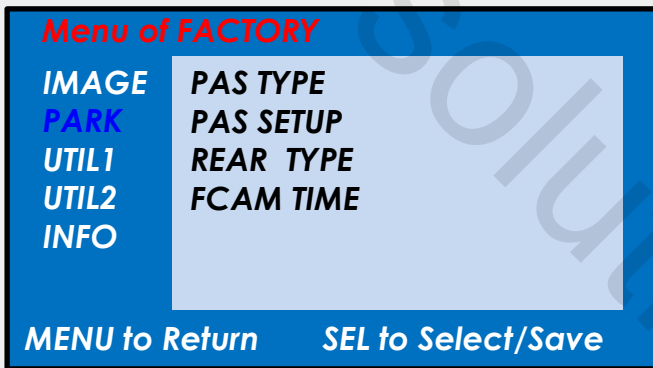
Please make sure to disconnect the power cable of interface and reconnect to apply dip switch setting whenever changing DIP switch.

Car Model	DIP4	DIP6	DIP8	DIP9	DIP10	CAN
Trailblazer	OFF	OFF	ON	OFF	OFF	single wire can
Equinox	OFF	OFF	ON	OFF	OFF	normal can
Silverado	OFF	OFF	ON	OFF	OFF	normal can
Insignia	OFF	OFF	ON	ON	OFF	single wire can
Tahoe	OFF	OFF	ON	ON	OFF	normal can
Colorado 800x480 old (LVDS USB connector)	OFF	ON	OFF	OFF	ON	single wire can

Factory Settings



1. ◀ Long Press: Access to the Factory Menu
2. OK Short Press: Selection or Mode Change
3. ▶ Long Press: Factory Reset
4. ▲ Short Press: Moving Upward
5. ▼ Short Press: Moving Downward
6. MENU Short Press: Back
7. PIP Short Press: No Use



PARKING

PAS TYPE: Select parking line type.

- NOT USED: Do not use parking line
- PAS ON: Use Flexible Parking Lines
- PAS OFF: Use fixed parking line

PAS SETUP: You can move the position of parking line

REAR TYPE: Choose rear camera recognition (CAN / LAMP)

FCAM TIME: Front Camera Display Setting

Factory Settings

Menu of FACTORY

IMAGE	CAR MODEL
PARK	LVDS MODEL
UTIL1	HDMI MODEL
UTIL2	AVOUT SELECT
INFO	FACTORY RESET

MENU to Return SEL to Select/Save

UTIL1

CAR MODEL : Selection for gear CAN and touch use (Trailblazer TBZ/INSIGNIA / TAHOE / SILVERADO / EQUINOX / CAMARO)

LVDS MODEL : Android, Car-play, Navigation Model Setting

- SUNE10, SE NAV2, SE CP : 800x480
- GNOM : 800x480

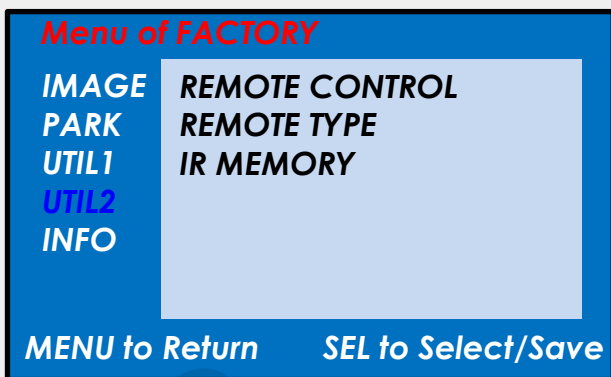
HDMI MODEL : DTV, Android Model Setting

- SUNE10 : 800x480
- SE TV: 800x480
- SE 360 : 800x480
- KAZON : 800x480
- KAZON+TURN : 800x480 + Left/Right Turn Signal

AVOUT SELECT : Select audio channel transmitted through AUX
(Default / AV1 / AV2)

FACTORY RESET : Factory mode reset (YES / NO)

Factory Settings



UTIL2

REMOTE CONTROL: Able to control UI remote by touch (OFF / ON)

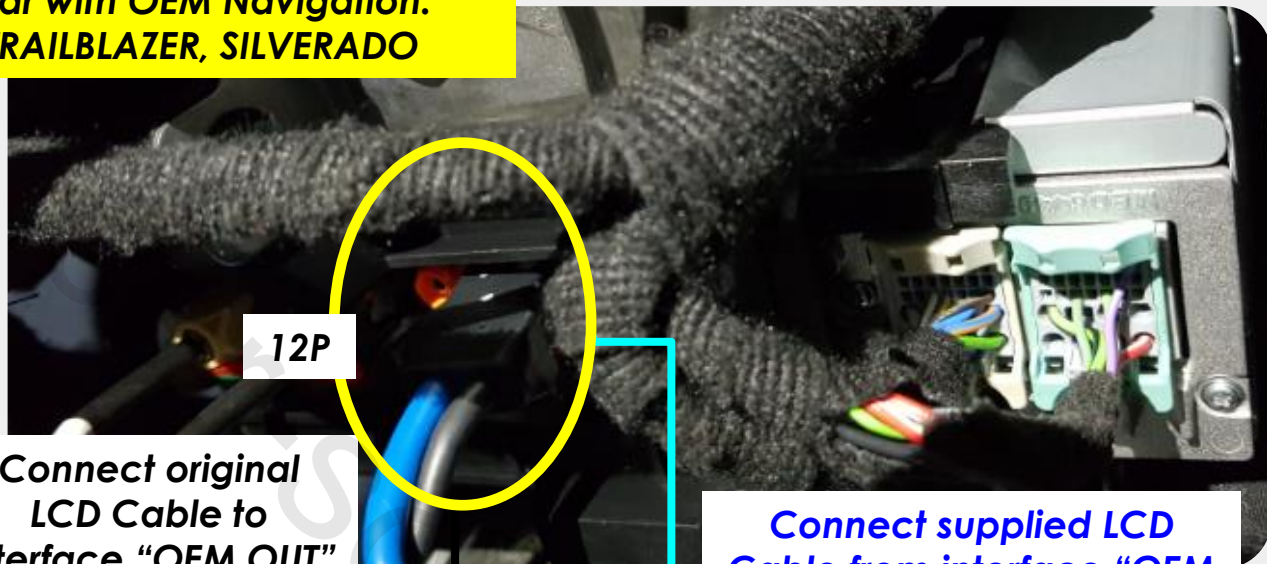
REMOTE TYPE: Able to use remote control on DVD, DTV by selecting "User" after IR memory registered

IR MEMORY: Register IR memory of remote control for DTV, DVD (AV1 / AV2)

LCD Cable Connection

* Head unit is under the glove box.

Car with OEM Navigation: TRAILBLAZER, SILVERADO



Connect original
LCD Cable to
interface "OEM OUT"

Connect supplied LCD
Cable from interface "OEM
IN" to the head unit

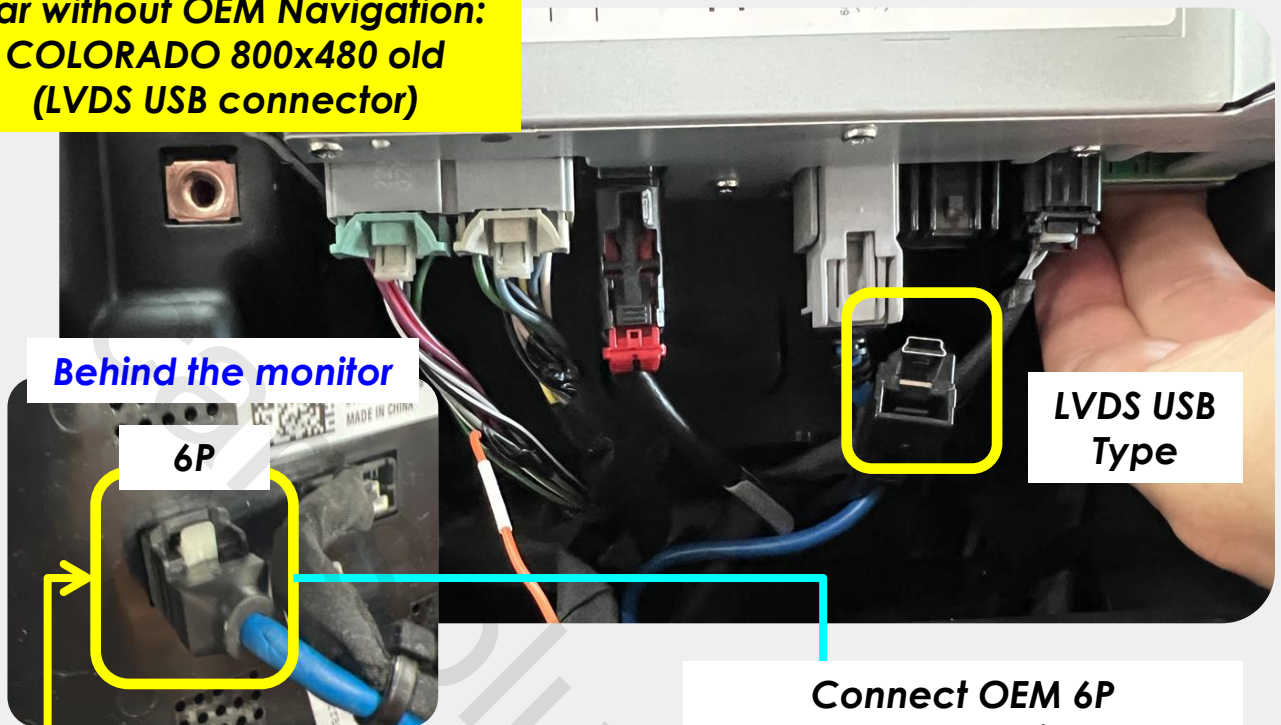


- For the car with original navigation: TRAILBLAZER, SILVERADO
 - ➔ use provided 12P male to male LCD cable and make LCD IN and OUT behind the head unit.
- For the car without original navigation: COLORADO (which has LVDS USB type)
 - ➔ use 6P to 12P optional LCD cable and make LCD IN and OUT behind the monitor.

LCD Cable Connection_ Colorado Old Model

* Head unit is under the glove box.

**Car without OEM Navigation:
COLORADO 800x480 old
(LVDS USB connector)**



Connect provided 6P male to the monitor and 12P male to "OEM OUT"

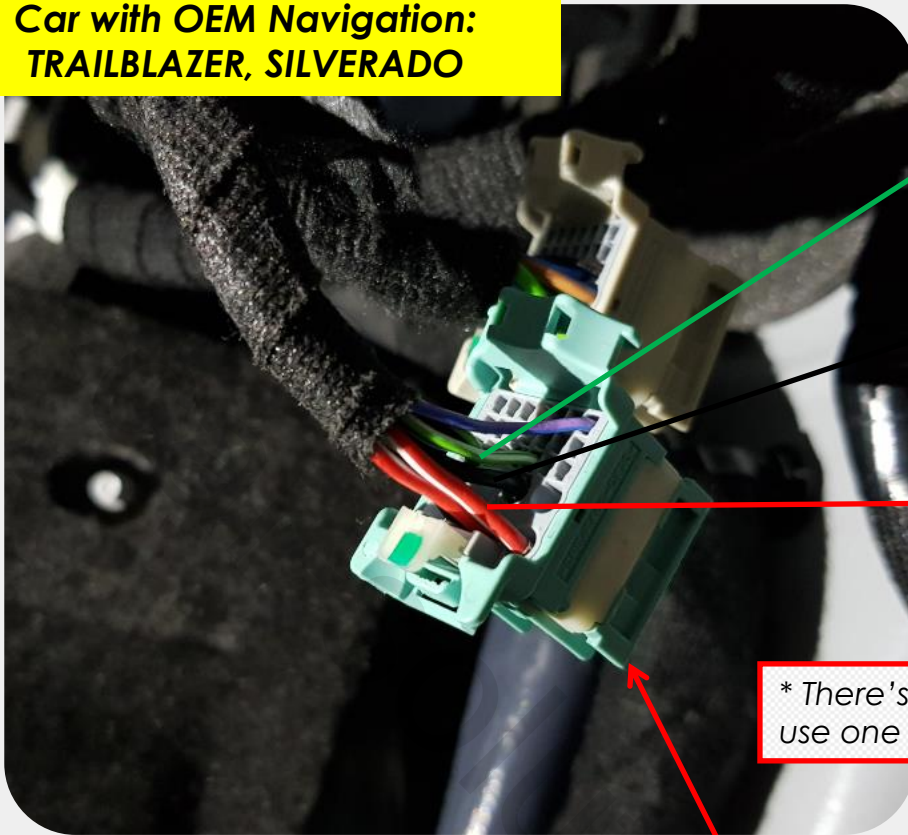
Connect OEM 6P connector(behind the monitor) to provided 6P female connector and 12P male connector to "OEM IN"



- For the car with original navigation: TRAILBLAZER, SILVERADO
➔ use provided 12P male to male LCD cable and make LCD IN and OUT behind the head unit.
- For the car without original navigation: COLORADO (which has LVDS USB type)
➔ use 6P to 12P optional LCD cable and make LCD IN and OUT behind the monitor.

Power / CAN Connection_ Behind the head unit

**Car with OEM Navigation:
TRAILBLAZER, SILVERADO**



**Green: Single Wire
CAN** connect to
Interface Power
Pin #7 (MMI)

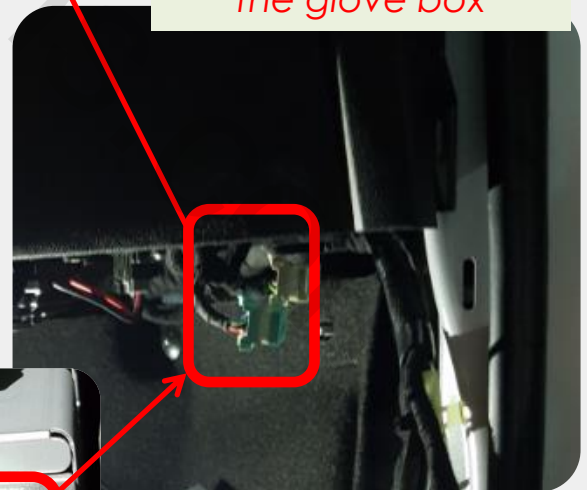
Black -> GND
connect to
Interface Power
Pin #2 (GND)

Red -> 12V B+
connect to
Interface Power
Pin #1 (ACC)

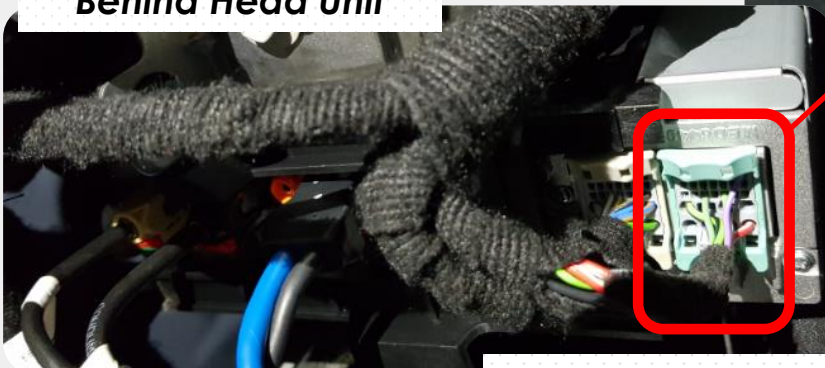
* There's 2 red wire, both are B+,
use one of them to connect power.

* **Single Wire CAN** must be
connected, otherwise screen
display will goes to black.

Head unit is under
the glove box



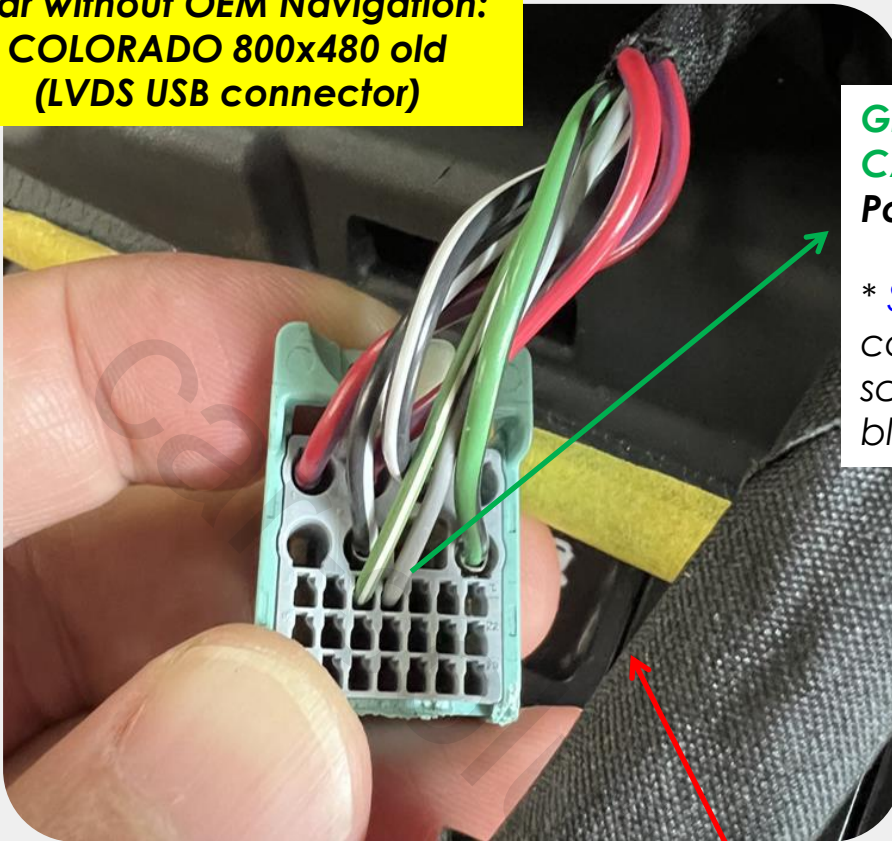
Behind Head Unit



OEM Power/CAN

Power / CAN Connection_ Colorado Old Model

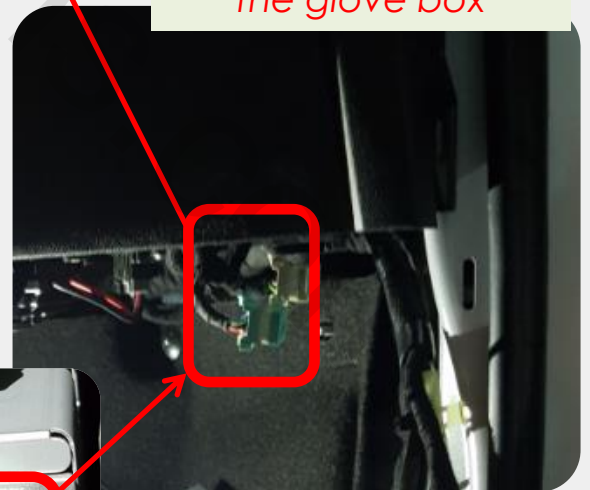
Car without OEM Navigation:
COLORADO 800x480 old
(LVDS USB connector)



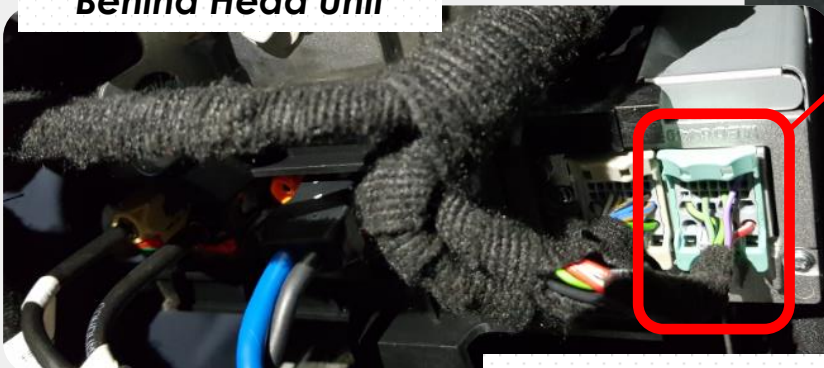
Green/Gray: Single Wire CAN connect to Interface Power Pin #7 (MMI)

* **Single Wire CAN** must be connected, otherwise screen display will go to black.

Head unit is under the glove box



Behind Head Unit

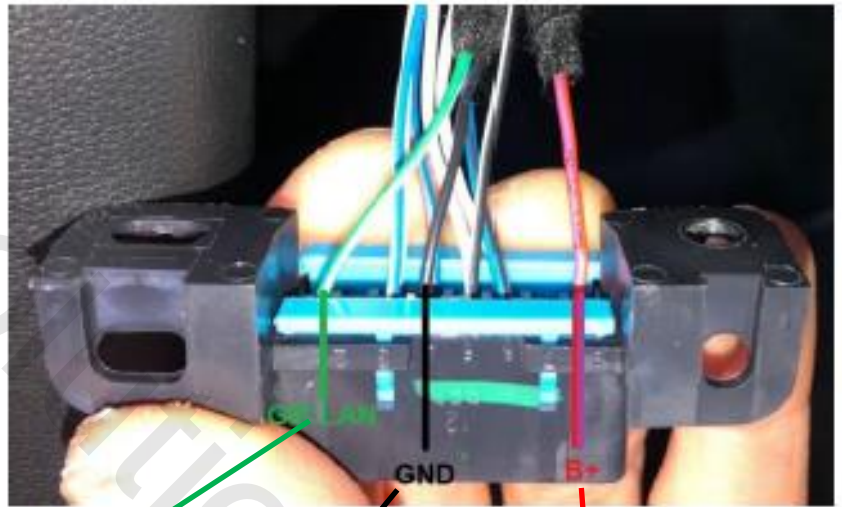


OEM Power/CAN

Power / CAN Connection_ OBD

You can also find single wire CAN in the OBD plug,
And OBD plug is under the steering wheel

CAR	Signal
Red/purple	B+
Black	Ground
Green/white (OBD Pin 1)	GM-LAN



Green: Single Wire CAN connect to Interface Power Pin #7 (MMI)

Black -> GND connect to Interface Power Pin #2 (GND)

Red -> 12V B+ connect to Interface Power Pin #1 (ACC)

OEM Button Use

* Please long press below button for mode change (function every 3secs).



* Home button long press for mode change only available when Dip #8 ON.

* Home/Back button short press to OEM mode.



* Panel_Home button doesn't support with Opel Insignia

OEM Button Use_ Opel Insignia

* Please long press below button for mode change (function every 3secs).



- Dip #8 set OFF
- Mode change with handle_voice button
- Panel_Home button doesn't support with Opel Insignia

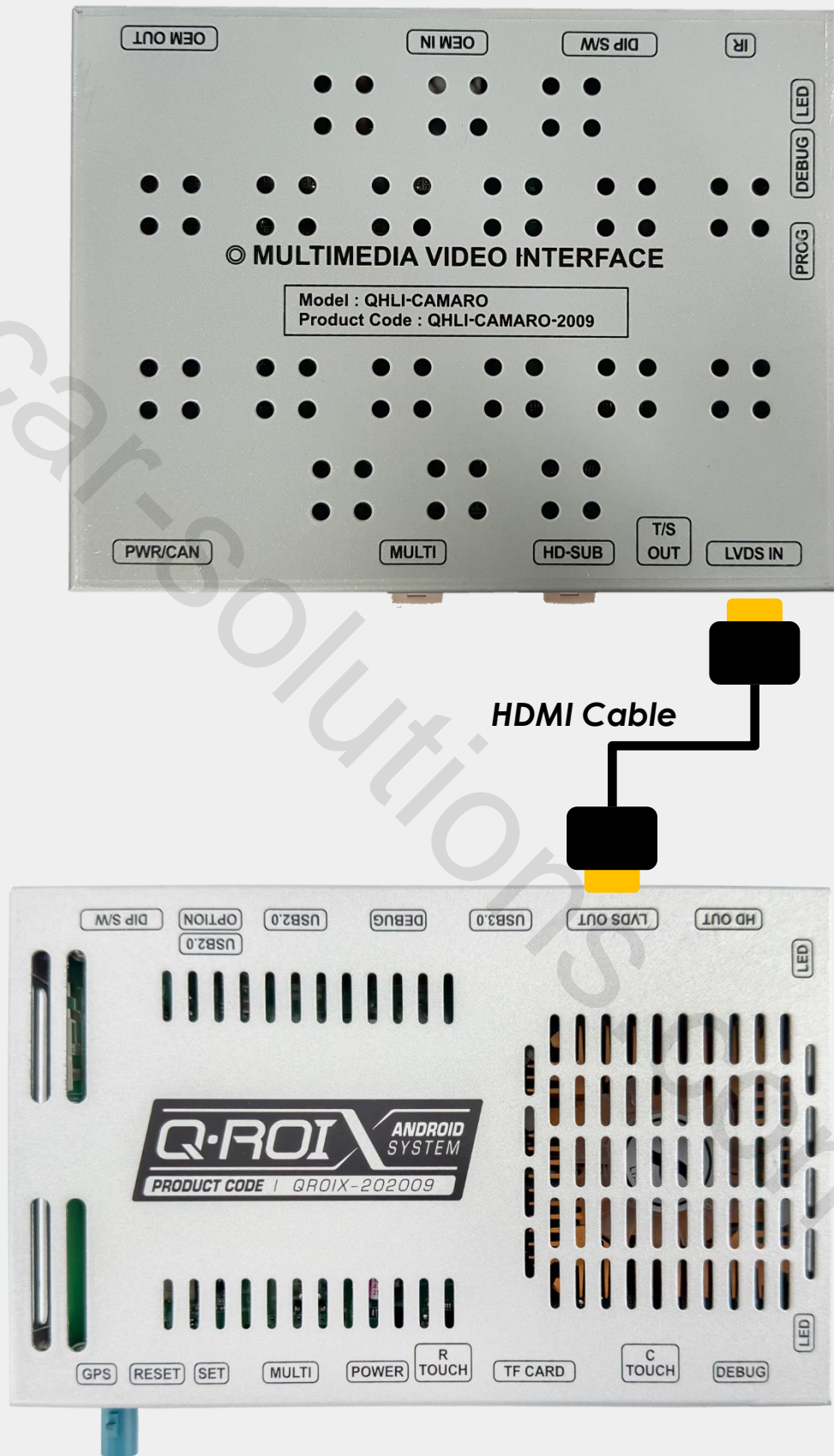
OEM Button Use_ Colorado

* Please long press below button for mode change (function every 3secs).



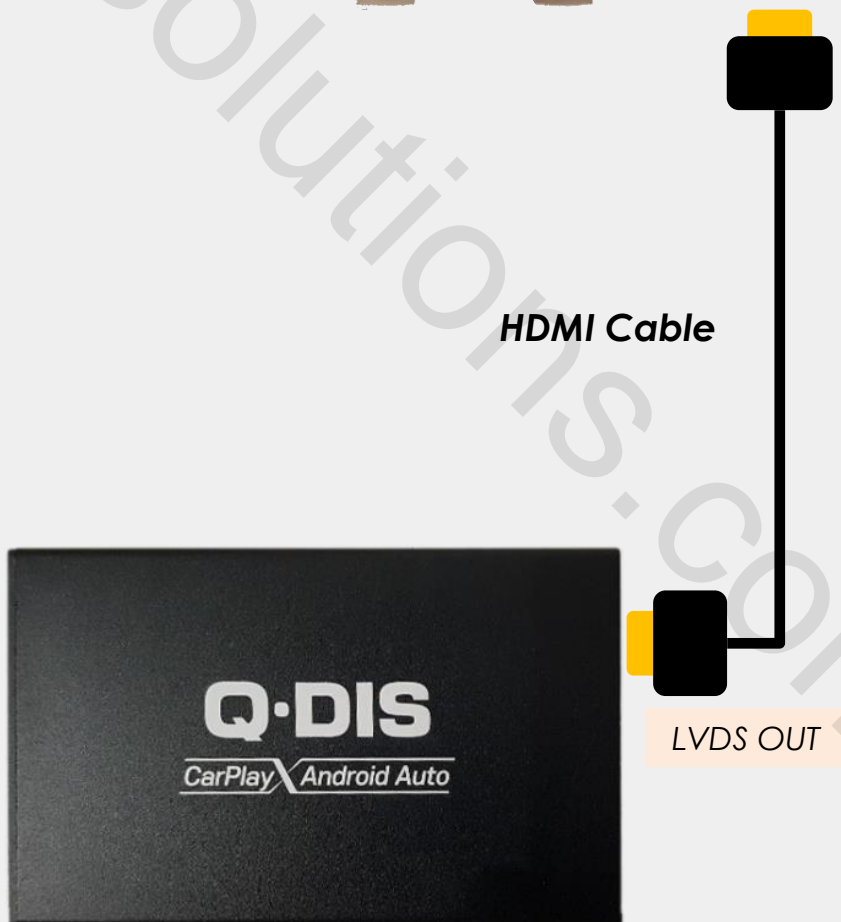
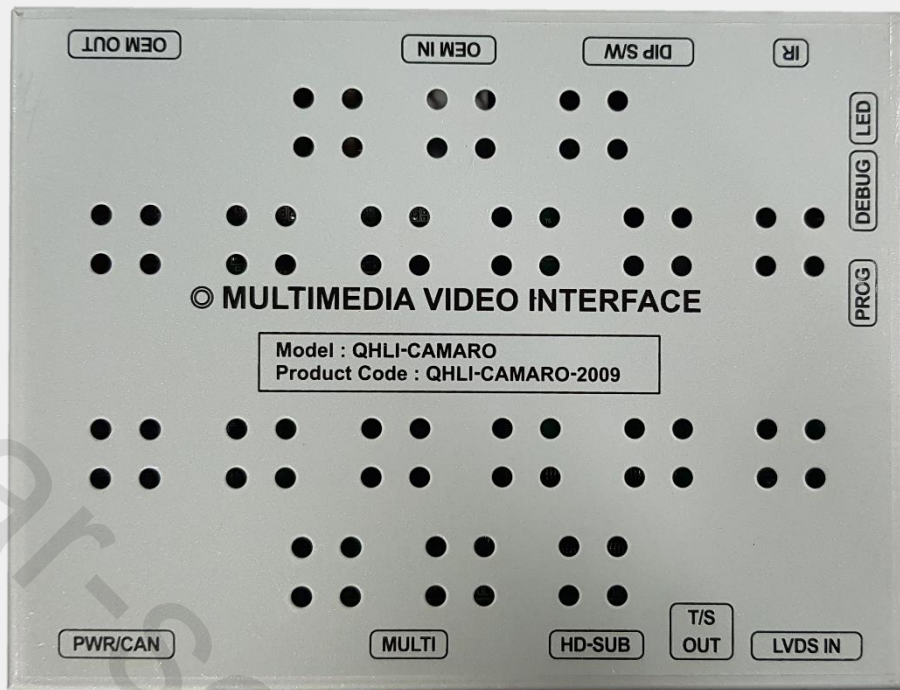
- Dip #8 set OFF
- Mode change with handle_right arrow button
- Panel_Home button doesn't support with Colorado

QROIX Connection by LVDS Input



- **Factory Settings -> FUNC -> LVDS MODEL : QROIX**
- **QROIX power and audio cable connect to the car.**

QDISPLAY Connection by LVDS Input



- **Factory Settings -> FUNC -> LVDS MODEL : SE-CP**
- **QDISPLAY power and audio cable connect to the car.**

Installation Demo

Chevrolet Trailblazer_ QROIX



Installation Demo

Opel Insignia_ QROIX



Installation Demo

Opel Insignia_ QROIX

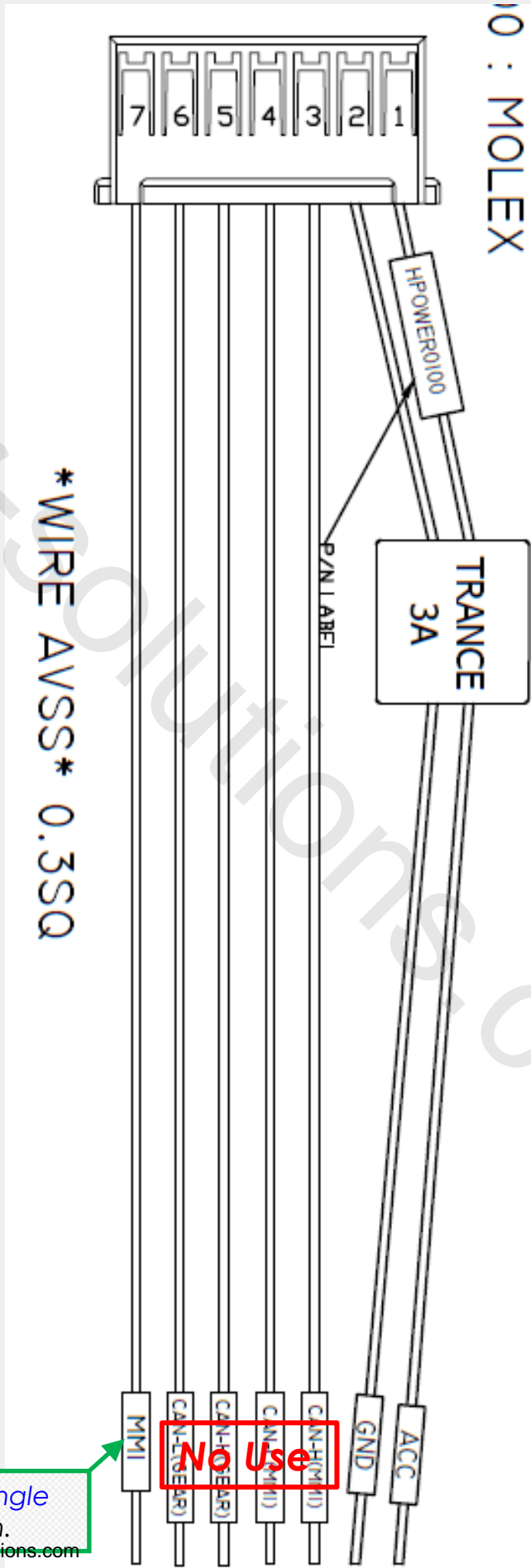


Installation Demo

Colorado_360 AVM



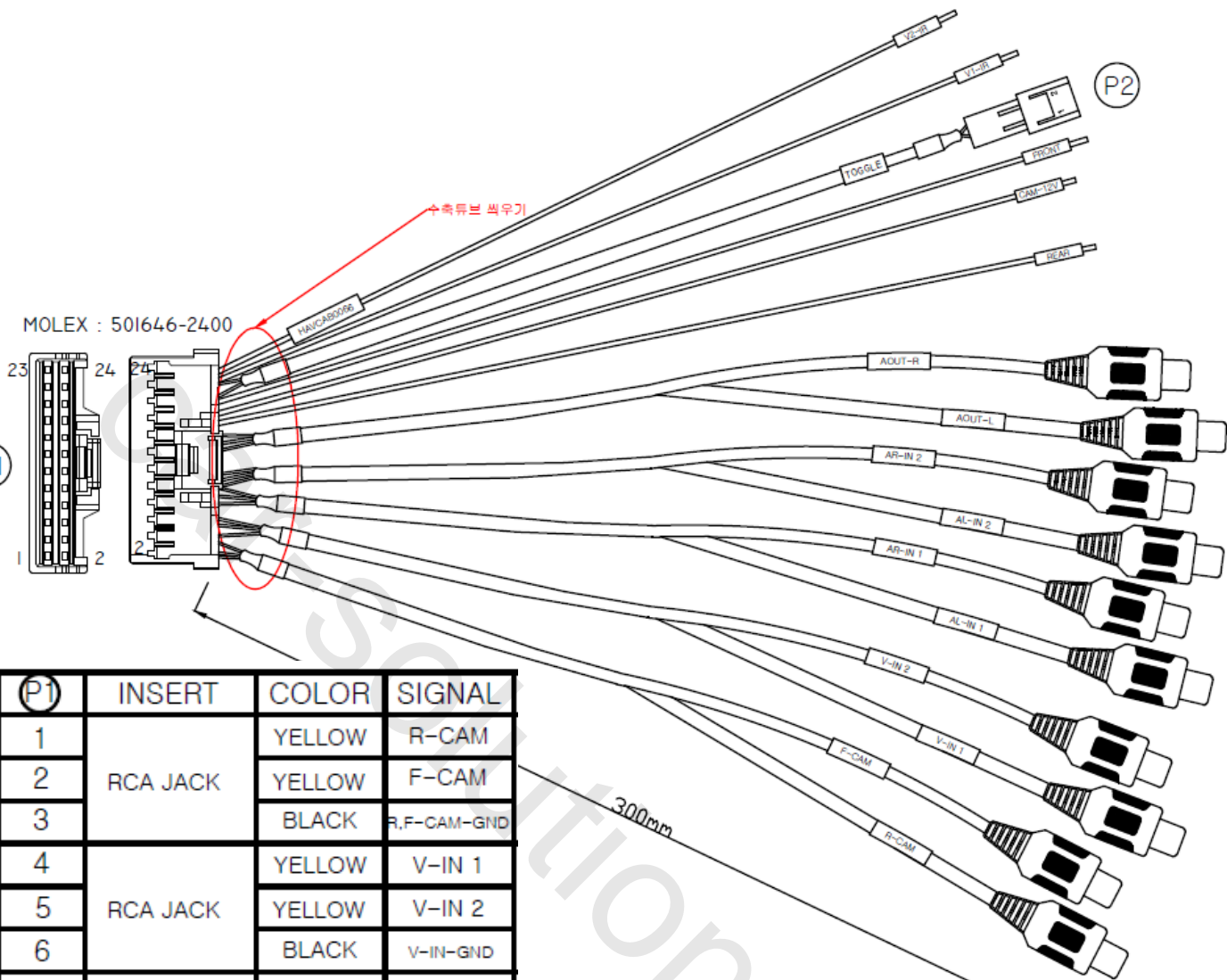
Power Cable Drawing



support@car-solutions.com

car-solutions.com

AV Cable Drawing



MOLEX : 501646-2400

수축튜브 씌우기

(P1)	INSERT	COLOR	SIGNAL
1	RCA JACK	YELLOW	R-CAM
2		YELLOW	F-CAM
3		BLACK	R,F-CAM-GND
4	RCA JACK	YELLOW	V-IN 1
5		YELLOW	V-IN 2
6		BLACK	V-IN-GND
7	RCA JACK	WHITE	AL-IN 1
8		RED	AR-IN 1
9		BLACK	AL,R-IN-GND
10	RCA JACK	WHITE	AL-IN 2
11		RED	AR-IN 2
12		BLACK	AL,R-IN2-GND
13	RCA JACK	WHITE	AOUT-L
14		RED	AOUT-R
15		BLACK	AOUT-GND
16	N.C		
17	AVSS 0.38Q WIRE	RED	CAM-12V
18	AVSS 0.38Q WIRE	GRAY	REAR
19	AVSS 0.38Q WIRE	BLUE	FRONT
20	SMH200-02PL	RED	TOGGLE
21		BLACK	TOGGLE-GND
22	AVSS 0.38Q WIRE	ORANGE	V1-IR
23	AVSS 0.38Q WIRE	WHITE	V2-IR
24	N.C		

(P2)	COLOR	SIGNAL
1	RED	TOGGLE
2	BLACK	TOGGLE-GND

Q·DIS

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GEUMCHEON-GU, SEOUL, KOREA.
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