

Installation Manual

Multimedia Interface for Land Rover Velar 2018 –



Specification

Car Compatibility :

**10.2" Touch pro duo monitor 2018~
EVOQUE DUO/VELAR DUO
Range Rover Sport**

**10.2" Touch pro single monitor 2021~
Discovery Sport**

Interface Input / Output specification :

Input:

LVDS In (Car System) *1
LVDS *1
A/V *2
CVBS(Front Camera) *1
CVBS(Rear Camera) *1
HDMI *2 [Optional]

Output:

LVDS Out (Car System) *1
Audio Out *1
Video Out *2

Power Spec:

Input Power:

8VDC ~ 18VDC

Consumption:

5WATT

Switch input mode:

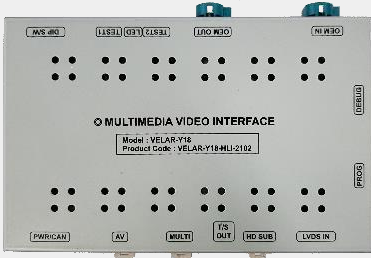
1. External video sources skip function: Able to control input videos on and off via Dip switches
2. Able to switch videos via the remote and button switch
3. Able to detect the rear view camera by CAN or rear lamp cable

*** Support Multi-Touch**

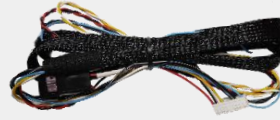
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Components



MAIN BOARD
QCPASS1536



POWER CABLE
HPOWER0273



LCD CABLE
HLCDCA0027



AV CABLE
HAVCAB0056



MULTI CABLE
HARETC0240



REAR CABLE
HARETC0002



UART CABLE
HTOUCH0015



IR CABLE
HIRCAB0002



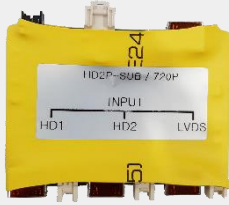
BUTTON CABLE
HARETC0001



REMOTE CTRL.
REMOTE0001

Components with Options

HDMI 720P 2Ports SUB Option



OPTION

HD2P-SUB

QCPASS1547



OPTION

HD2P-SUB CABLE

HARETC0365



OPTION

HDMI CABLE

HARETC0367



OPTION

UART CABLE*2

HTOUCH0015

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
1	LVDS Mode	OFF : LVDS Mode ON : Skip LVDS Mode
2	HDMI Mode	OFF : HDMI Mode ON : Skip HDMI Mode
3	AV1 Mode	OFF : AV1 Mode ON : Skip AV1 Mode
4	AV2 Mode	OFF : AV2 Mode ON : Skip AV2 Mode
5	Front Camera Mode	OFF : Ext. Front Camera Mode ON : OEM Front Camera Mode
6	Monitor Type	OFF : Duo Monitor ON : Single Monitor
7	Rear Camera Mode	OFF : OEM Rear Camera Mode ON : Ext. Rear Camera Mode
8	CAN Speed	OFF : High (500K) ON : Low (125K)
9	Handle Button Speed (LIN Wire)	OFF : High (20K) ON : Low (10K)
10	NO USE(OFF)	

*** HD2 enable is set by OSD menu.** Default setting is NONE (HD2 Mode Skip).

If select other menu on HD2, it will display automatically.

Car Model Settings

DIP6	DIP8	DIP9	OSD CAR MODEL	Car Model
OFF	OFF	OFF	RR SPORT	EVOQUE DUO 10.2"
				VELAR DUO 10.2"
				RANGE ROVER SPORT DUO 10.2"
ON	OFF	ON	DC SPORT	DISCOVERY SPORT Single 10.2"

Remote Control



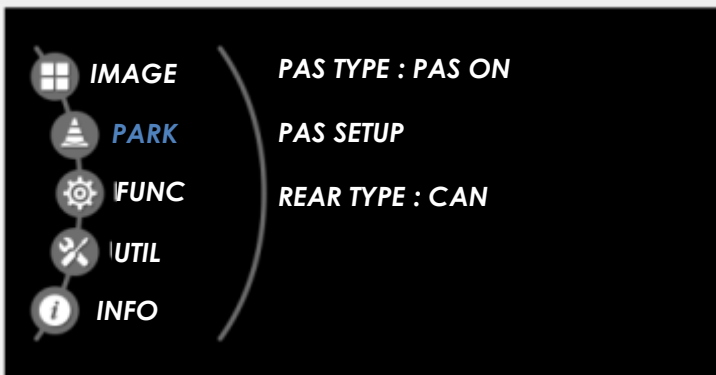
Key	FUNCTION
POWER & PIP	N/C
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◀	Moving leftward (If you press this button 2 seconds long, you can access the factory mode)
▶	Moving rightward (If you press this button 2 seconds long, you can reset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

Factory Settings



IMAGE

Setting for image display



PARK

PAS TYPE: Select parking line type.

NOT USED: Do not use parking line

PAS ON: No Use

PAS OFF: Use fixed parking line

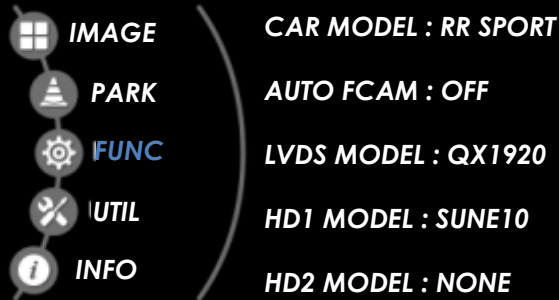
PAS SETUP: You can move the position of parking line.

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)

Factory Settings



FUNCTION

CAR MODEL:

RR SPORT/DC SPORT -> confirmed,
please refer to page#6

TYPE1/JAGU_XE/EVOQUE/TYPE2

AUTO FCAM:

Front Camera Display Setting

LVDS MODEL:

Car-play, Navigation Model Setting

HD1/HD2 MODEL:

DTV, Navigation Model Setting



UTIL

FACTORY RESET:

Factory mode reset (YES/NO)

AUDIO OUT:

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

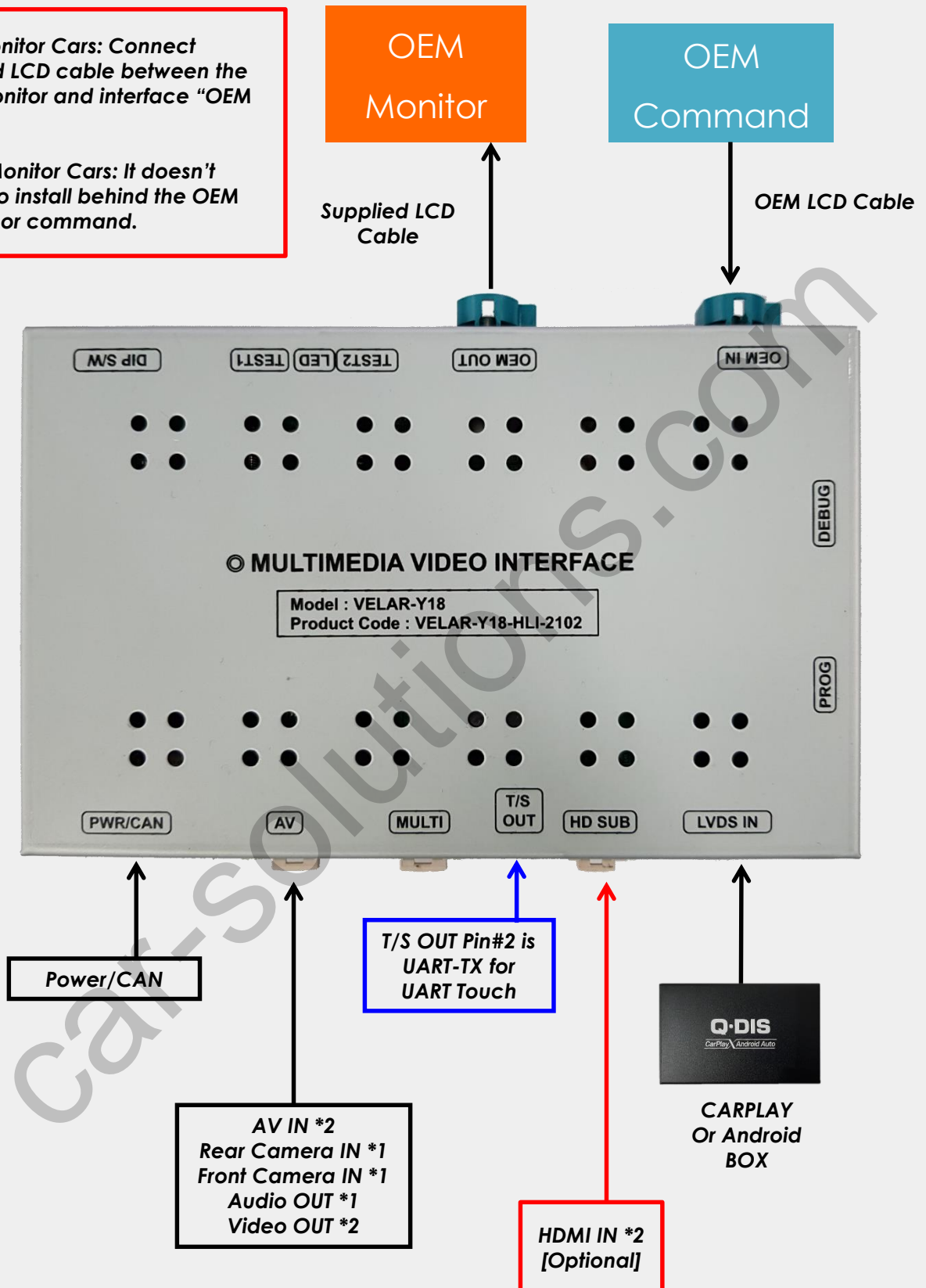


INFO

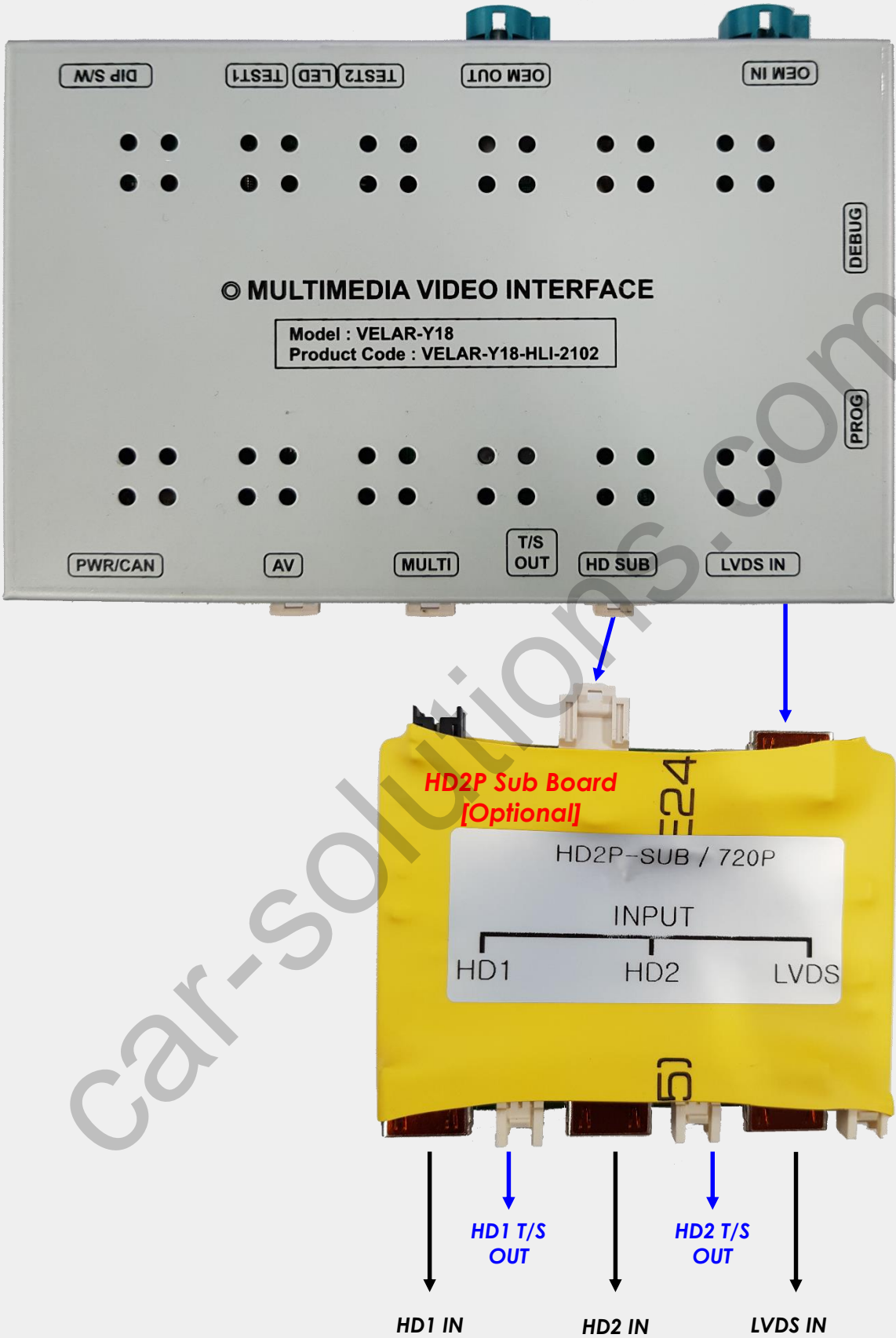
System version information

Installation Diagram

- **DUO Monitor Cars:** Connect supplied LCD cable between the OEM monitor and interface "OEM OUT".
- **Single Monitor Cars:** It doesn't matter to install behind the OEM monitor or command.



Installation Diagram_ HD2P Sub Board



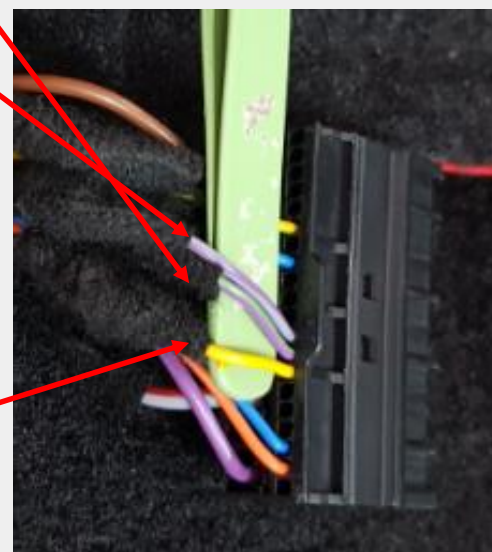
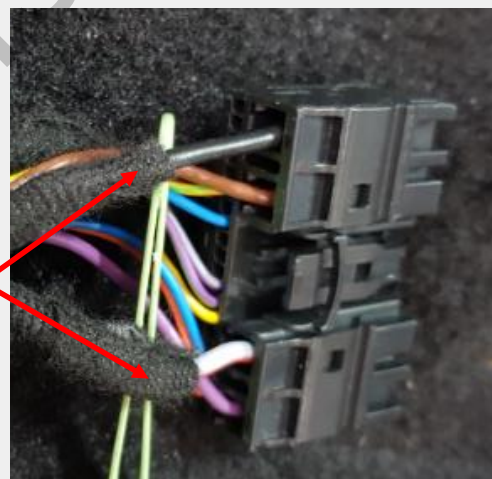
Power/CAN Wire Connection

* Please find the head unit under the driver's seat.

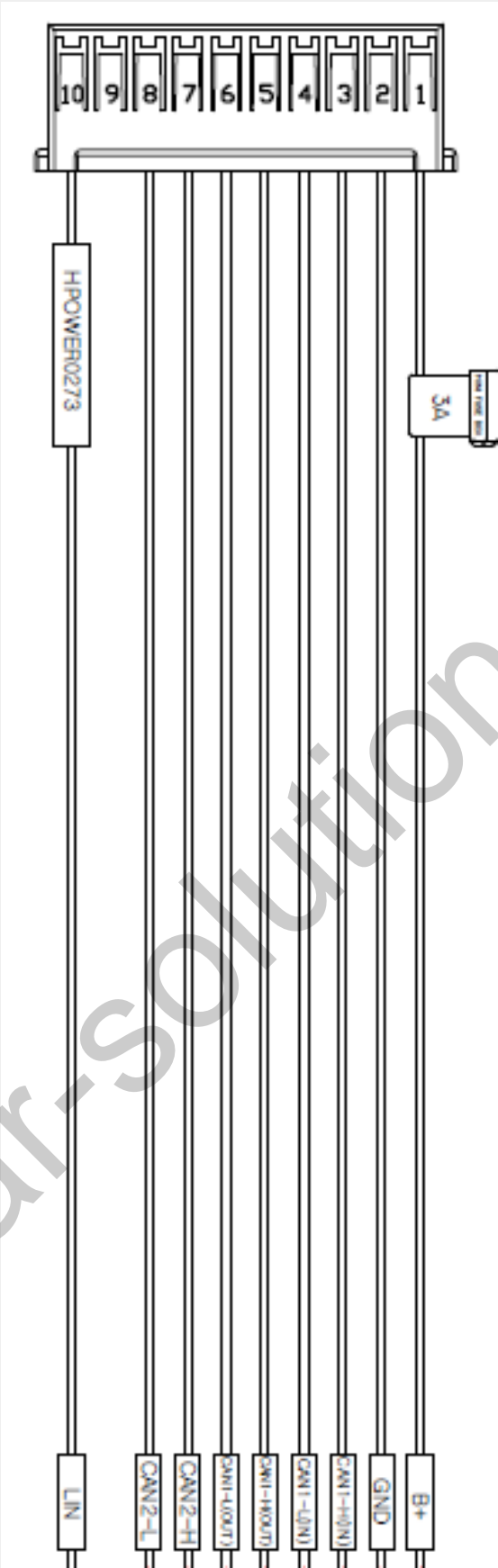


Power/CAN Pin Map

#	Description	Color	OEM Wire
1	B+	Yellow	#3 White/Red
2	GND	Black	#1 Black
3	CAN1-H	White	#17 Purple/Green
4	CAN1-L	Yellow	#16 Purple/Gray
5		N/C	
6		N/C	
7	CAN2-H	Brown	
8	CAN2-L	Violet	
9		N/C	
10	LIN for handle button	Blue	#18 Yellow

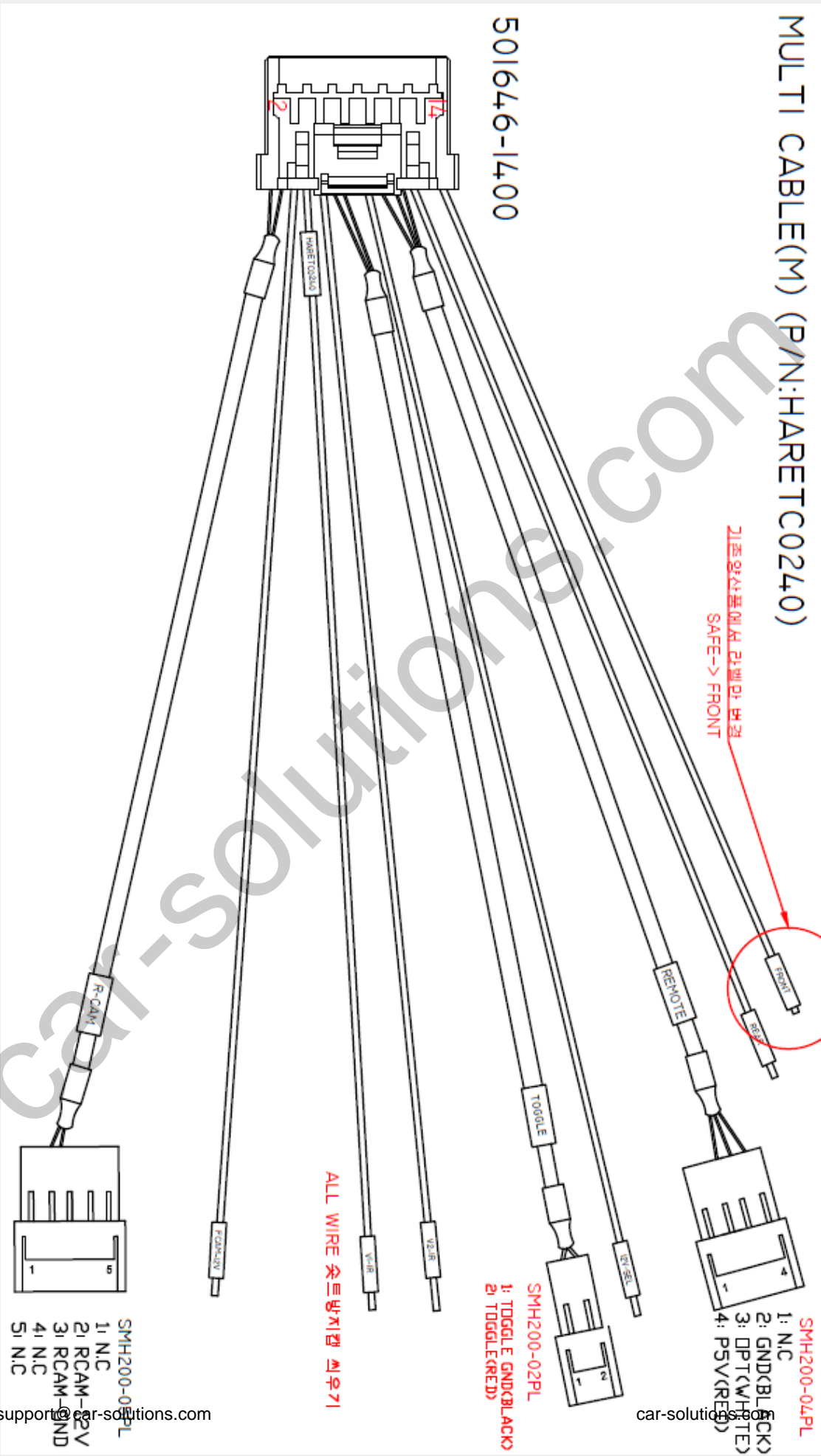


Power Cable Drawing



(P1)	INSERT	COLOR	SIGNAL
1	AVSS 0.36Q WIRE	YELLOW	B+
2	AVSS 0.36Q WIRE	BLACK	GND
3	AVSS 0.36Q WIRE	WHITE	CAN1-H(IN)
4	AVSS 0.36Q WIRE	YELLOW	CAN1-L(IN)
5	AVSS 0.36Q WIRE	BLACK/WHITE	CAN1-H(OUT)
6	AVSS 0.36Q WIRE	BLACK	CAN1-L(OUT)
7	AVSS 0.36Q WIRE	BROWN	CAN2-H
8	AVSS 0.36Q WIRE	VIOLET	CAN2-L
9	N.C		
10	AVSS 0.36Q WIRE	BLUE	LIN

Multi Cable Drawing



OEM Button Activation

** Press high lighted OEM button for 3 seconds long to mode switch*



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 can not 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 can not be guaranteed.

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)