

Audi 3G PAS C2 (Rear Camera Interface)



MODEL	AD-3G-PAS-150211
DATE	2017.11.15

Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Analog RGB Input (Navigation System output)
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
- 1 x LVDS Input. (Car Command System)

2. Output Spec.

- 1 x LCD Output (LCD Operation)

3. Power Spec.

- Input Power : 8VDC ~ 24VDC
- Consumption Power : 12Watt, Max

4. Switch Input mode

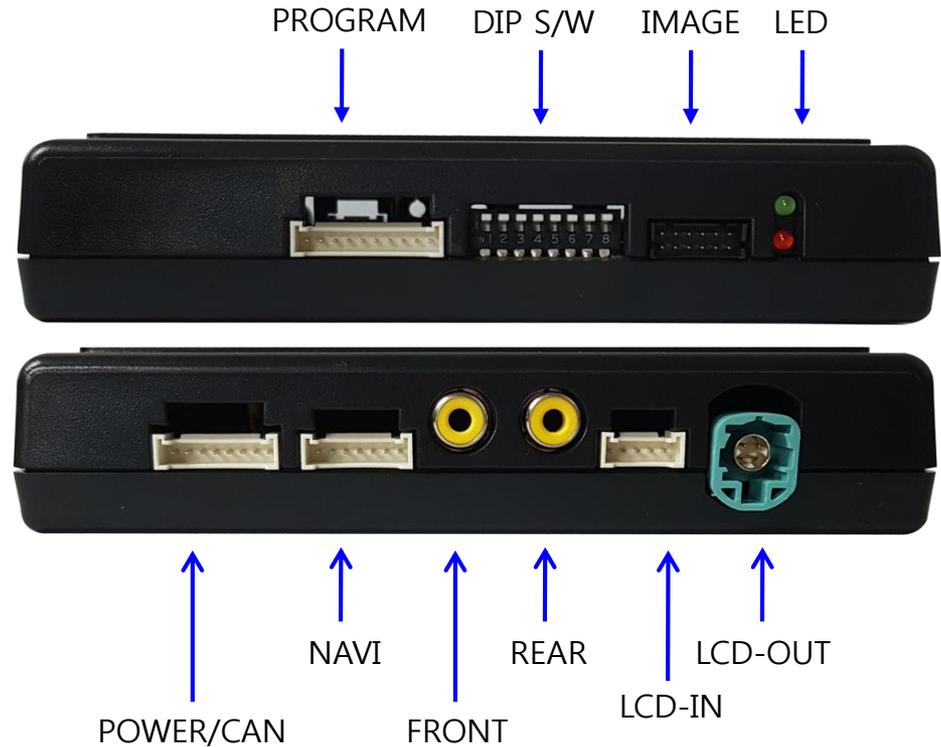
- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN

Dimension/External Appearance

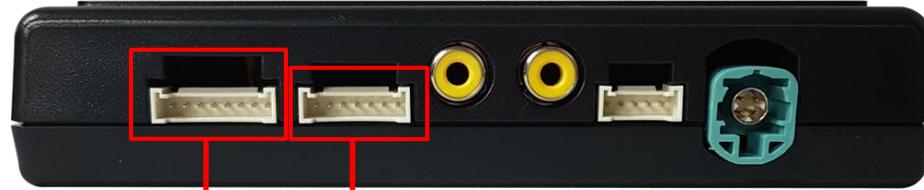
136.5mm * 87.5 mm * 22mm



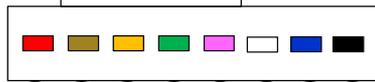
* This can change under manufacturer's circumstance



Connector Pin Assignment



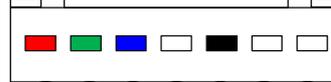
*POWER Connect



① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① ACC (Red)
- ② REAR_POWER (Brown)
- ③ CAN1-HIGH (Orange)
- ④ CAN1-LOW (Green)
- ⑤ CAN2-HIGH (Pink)
- ⑥ CAN2-LOW (White)
- ⑦ MMI(Blue)
- ⑧ GND (Black)

*NAVI Connect



① ② ③ ④ ⑤ ⑥ ⑦

- ① R DATA (Red)
- ② G DATA (Green)
- ③ B DATA (Blue)
- ④ SYNC (White)
- ⑤ GND (Black)
- ⑥ NC
- ⑦ +5V

Product Composition



Interface 1 EA



OSD Board 1 EA



Power Cable 1 EA



RGB Cable(5PIN) 1 EA



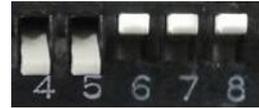
LVDS Cable(O type) 1 EA

DIP S/W Setting

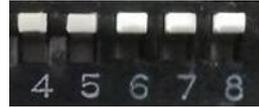
* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	VIDEO mode	ON : Not used OFF : used
3	MMI	ON : Old MMI OFF : New MMI
4	CAR type SEL	Right Picture
5		
6		
7		
8		

* DIP S/W Example



A1 6.5"
LOW



A1 7"
HIGH



A4 7-1"
LOW



A4 7-2"
LOW



A4 7-3"
LOW



A6 6.5"
HIGH



A6 8"
HIGH



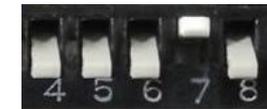
A8 8"
HIGH



Q3 6.5"
LOW



Q3 7"
LOW



Q5 6.5"
LOW



Q5 7"
LOW



Q7 7"
HIGH



Q7 6.5"
LOW



Q3 7"
HIGH

DIP S/W Setting

* Audi A1 – 7" use Steering Button



- For use Navigation, DIP S/W 1 must 'OFF'



MENU	Option / Hand Wheel Btn	REAR
Config	FrontCam-Det	ExtWire
Option	RearCam-RcvOpt	<input type="checkbox"/> On
Image	Hand Wheel Btn	On Off
Screen	Reset	Execute Cancel
Parking		

- Use Steering button
Hand Wheel Btn → Set "On"

DIP S/W Setting

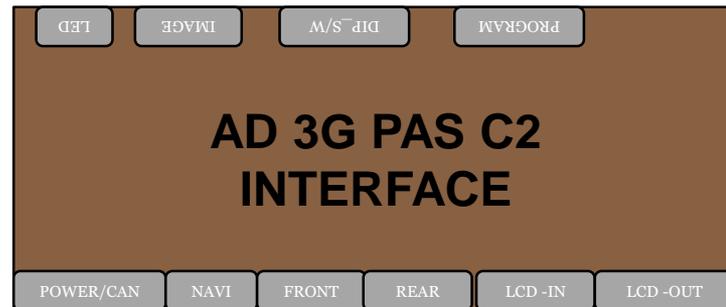
* Audi A6/A7 (4G system)



- For use Navigation, DIP S/W 1 must 'OFF' and cable no.5 (MMI) must connect



NAVI mode change

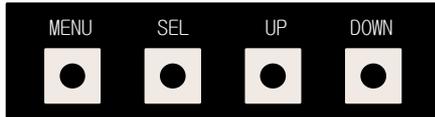


***For use MMI button, cable no.5 (MMI) must connect**

* Volkswagen, AUDI-A3 NOT SUPPORT Navigation

OSD(On Screen Display) Control

OSD Control Board



MENU	Push -> OSD menu On/Off
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

Mode State

MENU	Config	NAVI
Config	NAVI-RGB	KD900(WVGA)
Option	NAVI-AV	Default
Image	DVD	ELT-980XU Slim
Screen	DVB-T(IMB)	ELT-DVBT20
Parking	BlackBox	Default

First Menu Second Menu Third Menu

OSD(On Screen Display) Control

First Menu	Second Menu	Third Menu	Action
Option	RearCam-Type	OEM	Original Camera
		ExtDevice	Use aftermarket Rear camera
	RearCam-Power	ON	Rear camera get +12V consistently
		AUTO	Rear camera get +12V when reverse gear on
		OFF	Shut out the power supply.
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Use aftermarket Front camera
	FrontCam-Power	ON	Front camera get +12V consistently
		AUTO	Front camera get +12V when reverse gear on
		OFF	Shut out the power supply.
	RearCam-RcvOpt	ON	Show Frontcam 25sec after rear mode.
		OFF	Default
	Reset	Excute	Option Menu all Reset

OSD(On Screen Display) Control

NAVI-RGB menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Color-RED		Adjust the value of RED
	Color-GREEN		Adjust the value of GREEN
	Color-BLUE		Adjust the value of BLUE
	Reset	Excute	Option Menu all Reset

DVD,DVB-T(DMB),NAVI-AV,REAR,FRONT menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Saturation		Adjust the value of Saturation
	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Excute	Option Menu all Reset



<< Brightness >>



<< Saturation >>



<< Contrast >>

OSD(On Screen Display) Control

OSD Setting- Screen Mode

- Horizontal
- Vertical
- Scaler X Up
- Scaler X Down
- Scaler Y Up
- Scaler Y Down

MENU	Screen	NAVI
Config	Horizontal	50
Option	Vertical	50
Image	Scale X Up	50
Screen	Scale X Down	50
Parking	Scale Y Up	50

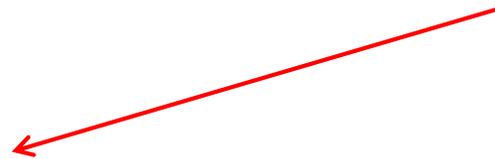
OSD(On Screen Display) Control

OSD Setting - Parking Mode On/Off

MENU	Parking	REAR
Config	Line Display	Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100



MENU	Parking / Line Display	REAR
Config	Line Display	Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100



MENU	Parking / Line Display	REAR
Config	Line Display	On Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100



MENU	Parking / Line Display	REAR
Config	Line Display	On Off
Option	Warnings Lang	English
Image	Horizontal	50
Screen	Vertical	57
Parking	Transparency	100

Parking Line ON

Parking line OFF



On Reverse mode enter this OSD menu

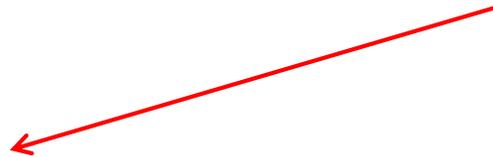
OSD(On Screen Display) Control

OSD Setting - Parking Sensor Display On/Off

MENU	Parking	REAR
Config	OPS Display	On
Option	Line Display	On
Image	Warnings Lang	Россия
Screen	Horizontal	50
Parking	Vertical	50



MENU	Parking / OPS Display	REAR
Config	OPS Display	On
Option	Line Display	On
Image	Warnings Lang	한국어
Screen	Horizontal	50
Parking	Vertical	50



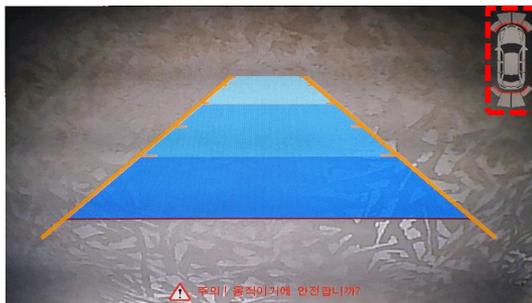
MENU	Parking / OPS Display	REAR
Config	OPS Display	On Off
Option	Line Display	On
Image	Warnings Lang	한국어
Screen	Horizontal	50
Parking	Vertical	50



MENU	Parking / OPS Display	REAR
Config	OPS Display	On Off
Option	Line Display	On
Image	Warnings Lang	한국어
Screen	Horizontal	50
Parking	Vertical	50

OPS ON

OPS OFF



If car don' t have a parking sensor, NO OPS Image

OSD(On Screen Display) Control

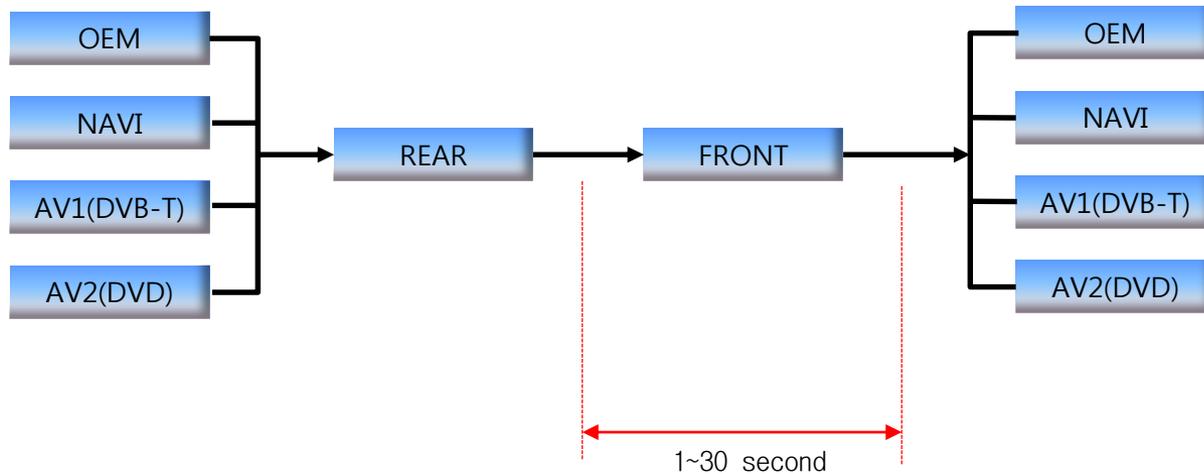
OSD Setting - Front Camera Auto Mode

- Option -> RearCam-RcvOpt -> 0 second = RearCam-RcvOpt menu OFF

1~30 second = RearCam-RcvOpt menu ON & time control

MENU	Option / RearCam-RcvOpt	REAR
Config	FrontCam-Det	ExtWire
Option	RearCam-RcvOpt	<input type="text"/> 0s
Image	AV Out	USER
Screen	Reset	Execute Cancel
Parking		

MENU	Option / RearCam-RcvOpt	REAR
Config	FrontCam-Det	ExtWire
Option	RearCam-RcvOpt	<input type="text"/> 30s
Image	AV Out	USER
Screen	Reset	Execute Cancel
Parking		



OSD(On Screen Display) Control

OSD Setting - Utility Mode

MENU	Utility / Factory Reset	REAR
OSD	Factory Reset	Execute Cancel
Utility	Version	BEPP06SGX-130950

- Factory Reset : Execute - Reset All (Setting Default)
- Version : FW Version

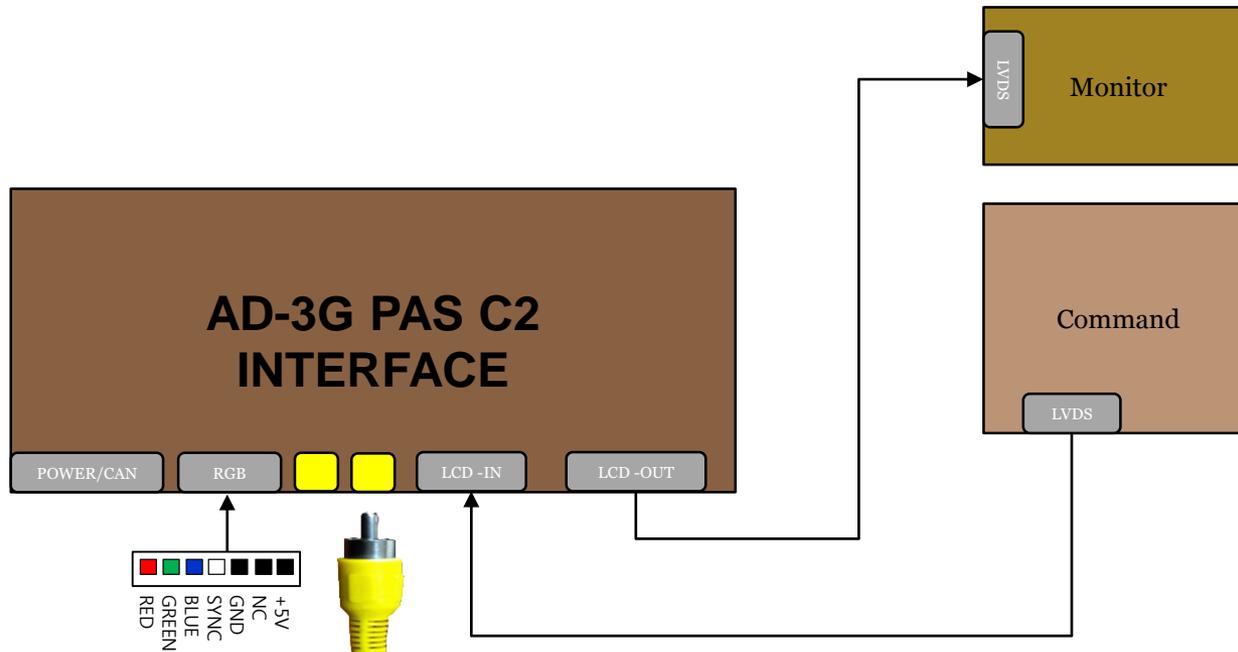
Finish update FW, check the FW version

Last Source : BEPP06SGX-130950



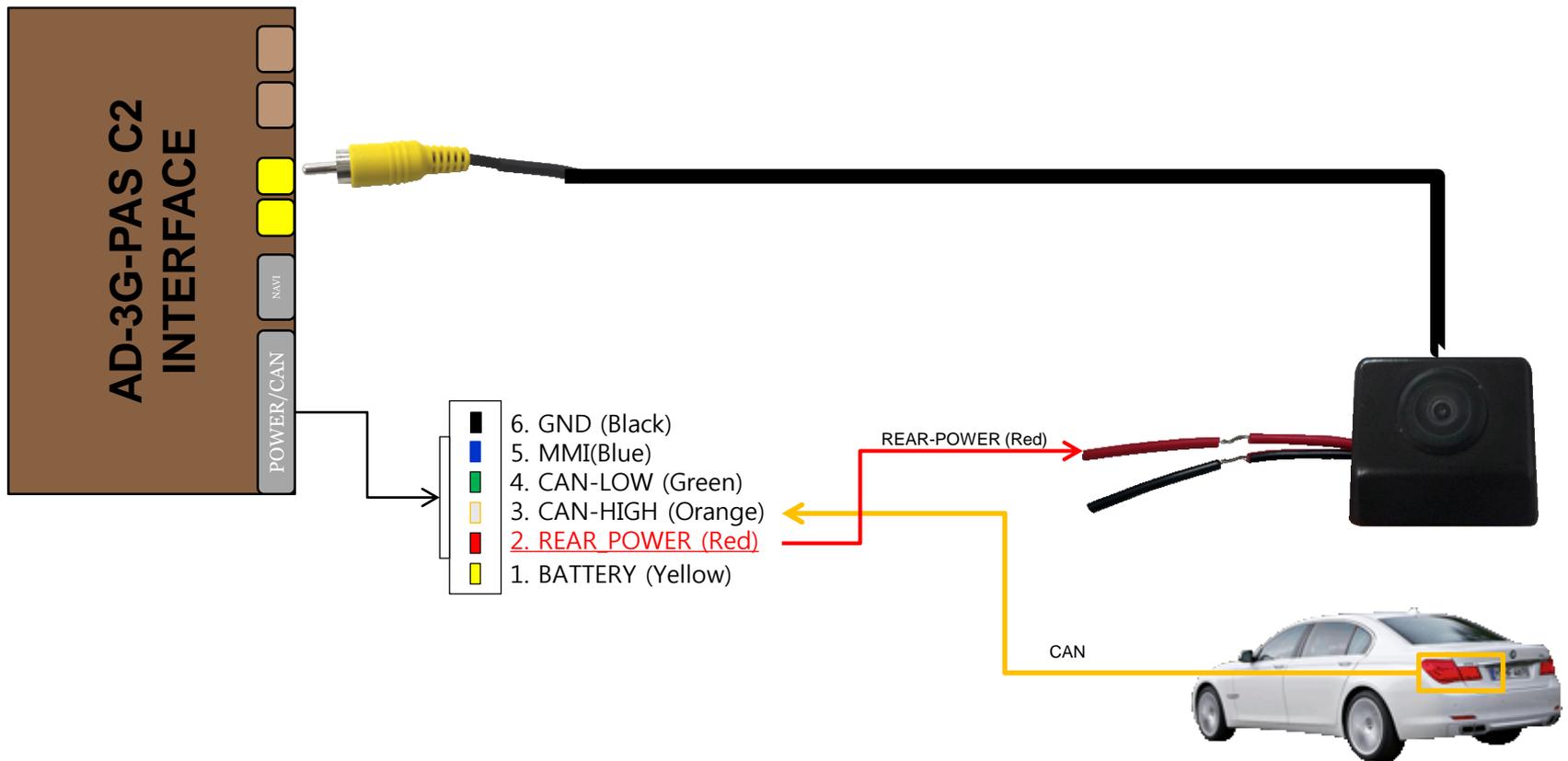
Install Manual

1. Installation Diagram



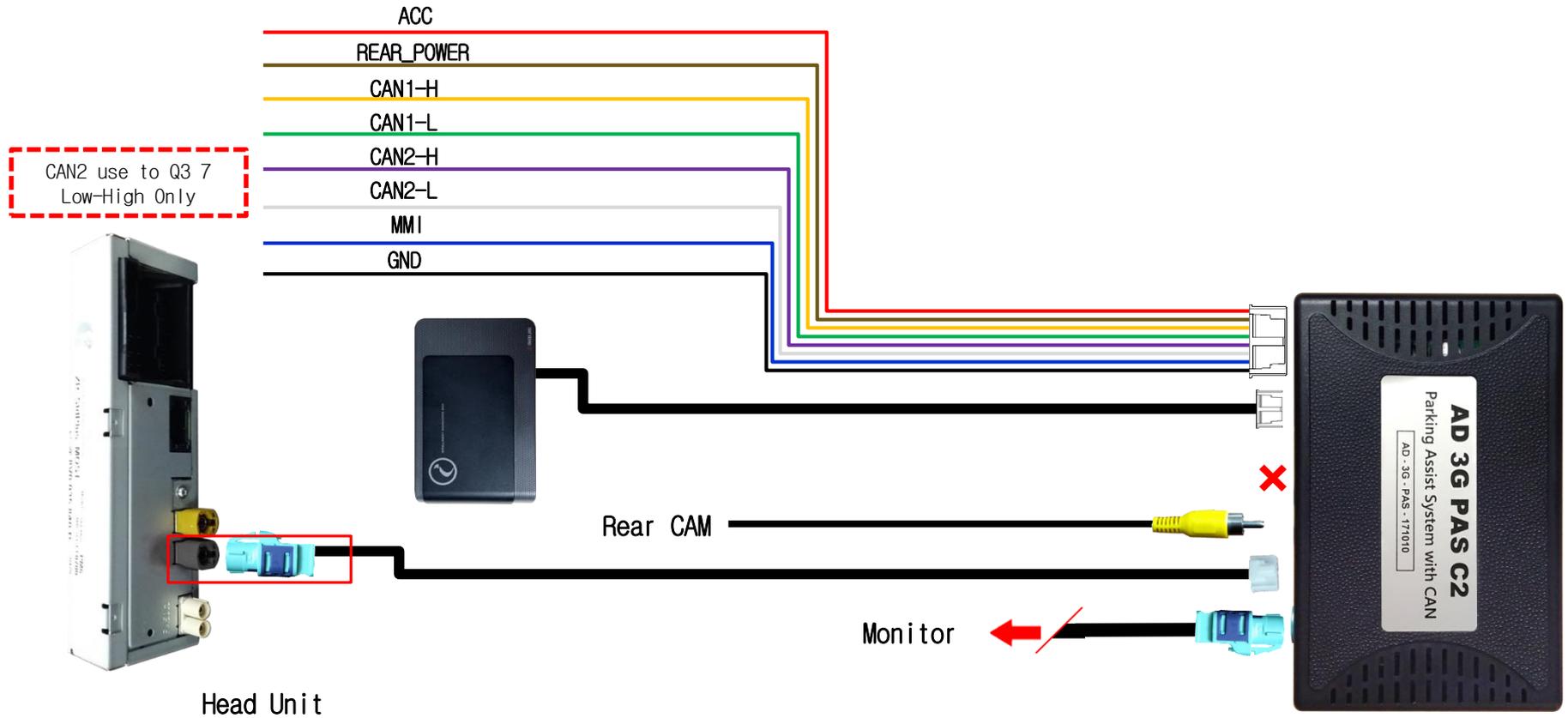
Install Manual

2. Installation External Reverse(Rear) Camera Connection : OSD Screen selection CAN



Install Manual

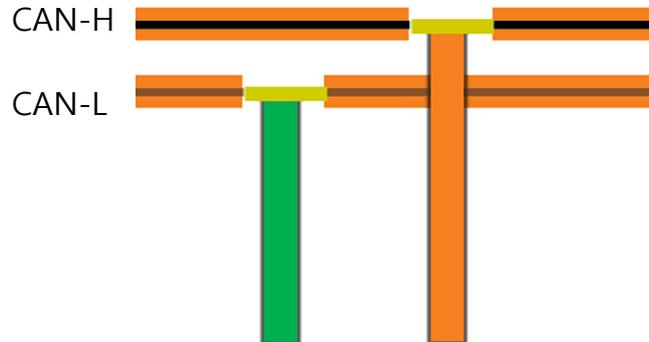
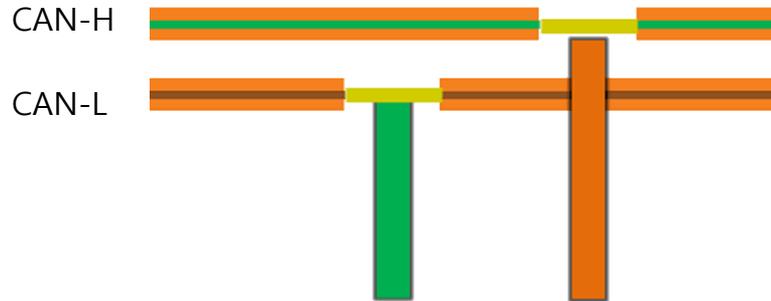
3. Installation LVDS connection



Install Manual (CAN-1)

4. Installation CAN-1 connection

* DIP S/W Example

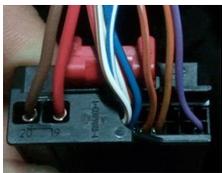


Install Manual (CAN-1)

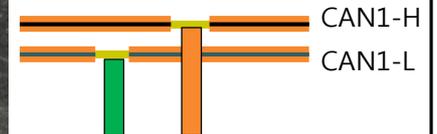
AUDI A4 / Q5 LOW-CAN



PIN-4 : CAN-H
PIN-5 : CAN-L



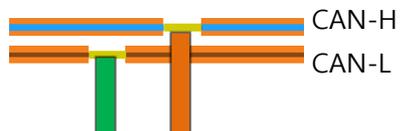
AUDI Q3 HIGH-CAN



AUDI A6/A7 HIGH-CAN

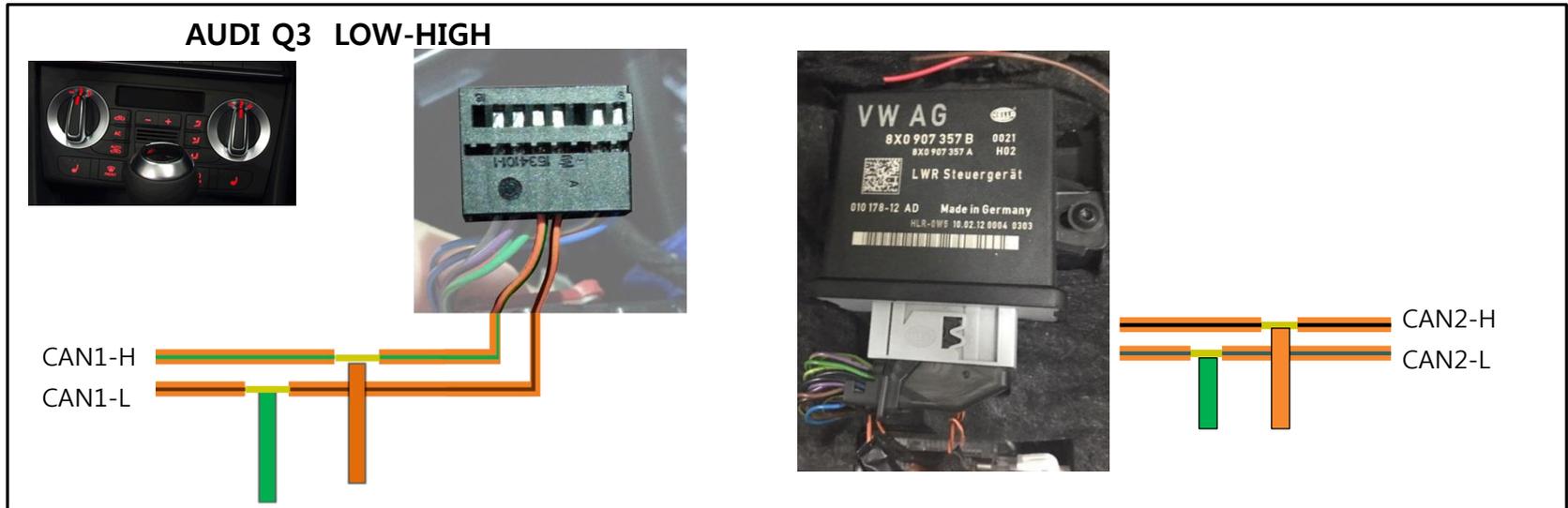


PIN-4 : CAN-H
PIN-5 : CAN-L



Install Manual (CAN-1/2)

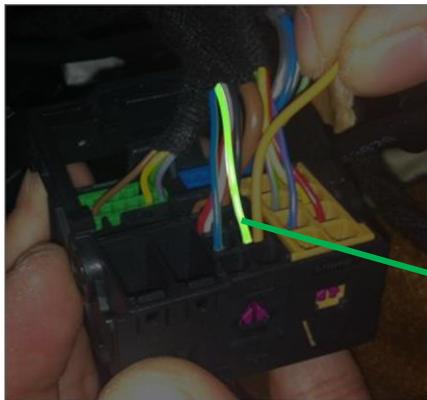
5. Installation CAN-1/2 connection



Install Manual (CAN-1/2)

6. Installation MMI connection

AUDI A4/A6 MMI connection



MMI connection

Q & A

1. If Interface has a problem, Please check LED.



- ACC on (12v), If Interface does not have a problem; GREEN LED is blinking every 1 sec..
- RED LED is turn on (not blinking), Interface has a problem.
- RED LED is turn off every 1 sec, there is no input.
- RED LED and GREEN LED both are not turn on, check the CAN or ACC connection.

2. Q : LCD screen black

A : LVDS Cable problem or, connection problem.

3. When DTV or DVD mode, cannot control with I-Drive

- Check IR cable, and DTV or DVD device' s ground cable and Interface ground cable join together with using extra cable.
- Check device in OSD menu