

Video Interface for 2014 JEEP CIP

-GRAND CHEROKEE 2014~

-DODGE RAM 2014~



Spec

1. Input Spec. (MULTI VIDEO INTERFACE)

- 2 x A/V Input (External video source).
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 1 x CVBS(Front CAMERA) Input. (Front camera source)
- 1 x Analog RGB Input (Navigation System output)
- 1 x LVDS Input. (Car Command System)

2. Output Spec.

- 2 x CVBS Output (Video out for Installing Headrest Monitor)
- 1 x Audio L/R Output.
- 1 x LCD Output (LCD Operation)

3. Power Spec.

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

4. Switch Input mode

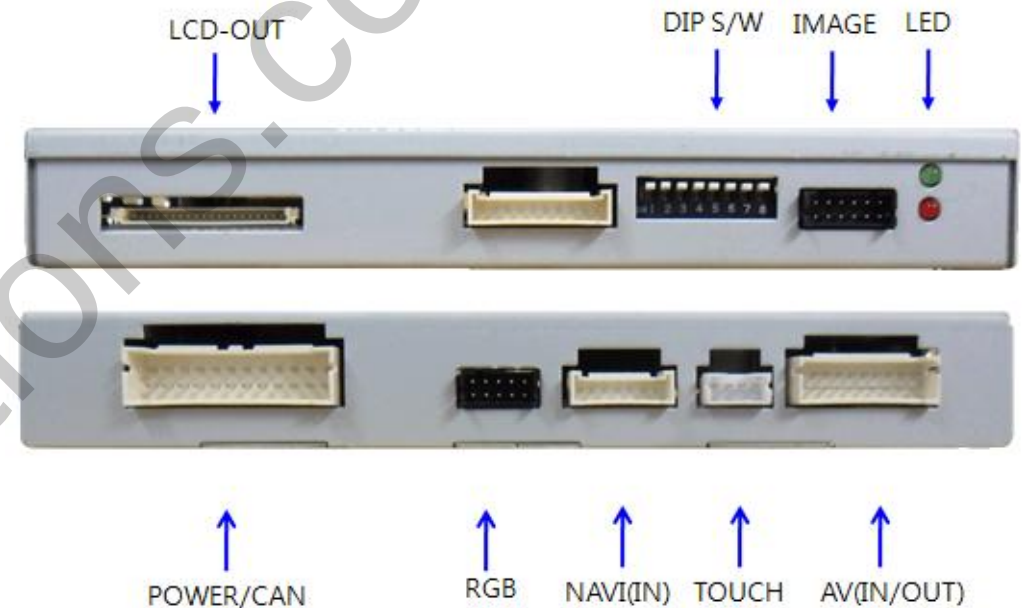
- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN

About Interface

- Dimension

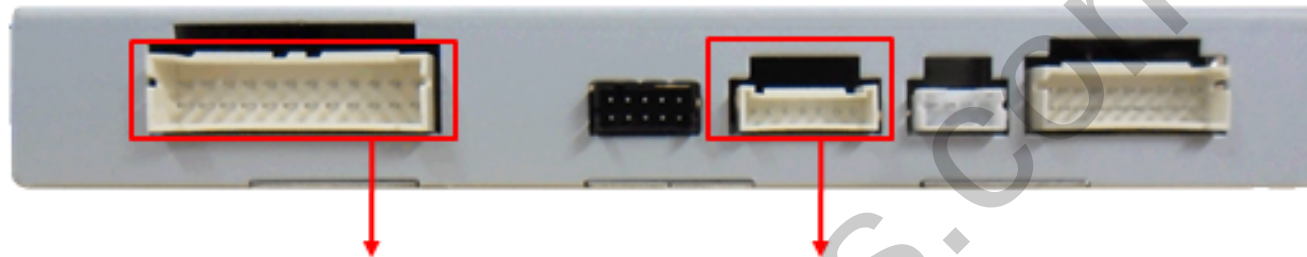


- External Appearance

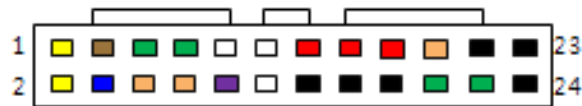


* This can change under manufacturer's circumstance

Connector Pin Assignment

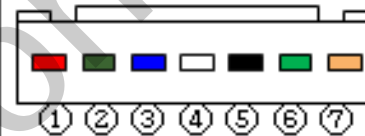


*POWER Connect



- | | |
|--------------------------------|--------------------------------|
| 1. Battery (Yellow) | 13. Front-Camera Detect (Blue) |
| 2. Battery (Yellow) | 14. REAR-POWER (Red) |
| 3. GND (Black) | 15. FRONT-POWER (Red) |
| 4. ACC-Power (Red) | 16. AUX_DETECT (Gray) |
| 5. CAN-L IN (Green) | 17. AUDIO_GND (White) |
| 6. CAN-H IN (Orange) | 18. AUDIO_GND (White) |
| 7. CAN-L OUT (Green) | 19. AUDIO_L (Black) |
| 8. CAN-H OUT (Brown) | 20. HU_AUDIO_L (Black) |
| 9. CAN-L (Blue) | 21. AUDIO_R (Red) |
| 10. CAN-H (Purple) | 22. HU_AUDIO_R (Red) |
| 11. MODE (Green) | 23. GND (Black) |
| 12. Rear-Camera Detect (Brown) | 24. GND (Black) |

*NAVI Connect

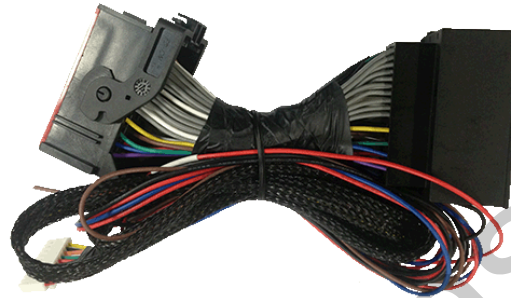


- | |
|-------------------|
| ① R DATA (Red) |
| ② G DATA (Green) |
| ③ B DATA (Blue) |
| ④ SYNC (White) |
| ⑤ GND (Black) |
| ⑥ DMB IR (Green) |
| ⑦ DVD IR (Orange) |

Product Composition



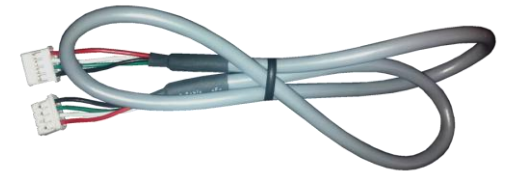
Interface Board 1 EA



Power Cable 1 EA



RGB Cable 1 EA



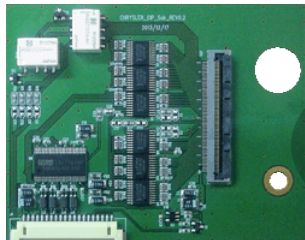
Touch Cable 1 EA



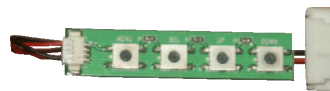
AV Cable 1 EA



LVDS Cable(800mm) 1 EA



SUB-BOARD 1 EA



OSD Keypad 1 EA



FPC Cable 1 EA

DIP S/W Setting

※ ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI INPUT MUTE	ON : Skipping NAVI Mode OFF : NAVI Display
2	AV1 MUTE	ON : Skipping AV1 OFF : AV1 Display
3	AV2 MUTE	ON : Skipping AV2 OFF : AV2 Display
4	RGB INPUT MUTE	ON : Skipping RGB OFF : RGB Display
5	PARKING SENSOR	ON : Not Used OFF : Used
6	N.C	
7	N.C	
8	CAR TYPE	ON : RIGHT PHOTO OFF

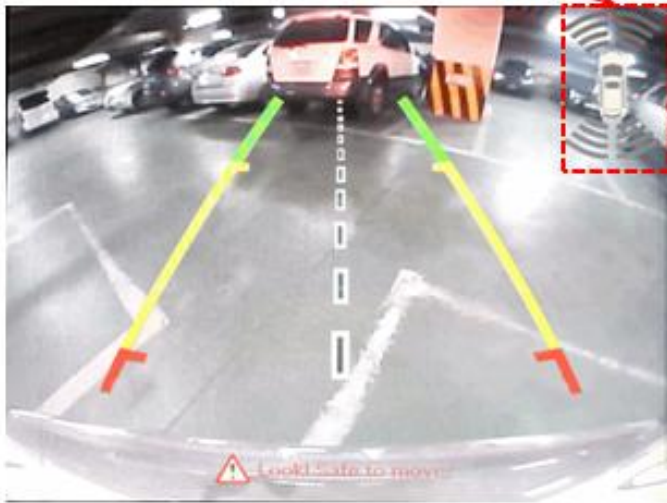


GRAND CHEROKEE



DODGE RAM

DIP S/W SETTING



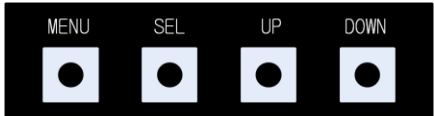
MODE CHANGE



mode change : 0.7ms press

OSD 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

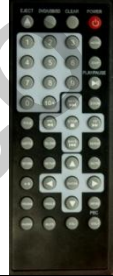
Mode State		
MENU	Config	
Config	NAVI-RGB	KD900(WVGA)
Option	NAVI-AV	Default
Image	DVD	ELT-980XU Slim
Screen	DVB-T(IMB)	ELT-DVBT20
Parking	BlackBox	Default

First Menu

Second Menu

Third Menu

OSD MENU

First Menu	Second Menu	Third Menu	Action	ELT-980XU Slim	AMPIRE DVX-101
Config	NAVI-RGB	GI4000	Selection Korea 480*234		
		GI8000	Selection Korea 800*480		
		GI8000 3G	Selection Korea 800*480		
		PANASONIC	Selection Taiwan 480*234		
		PT-GPS800A	Selection China 480*234		
		KD900(WVGA)	Selection China 800*480		
		KD900(WQVGA)	Selection China 480*234		
		PURENAV18	Selection Taiwan 480*234		
		SINGAPORE	Selection Singapore 480*234		
	NAVI-AV				
	DVD	ELT-980XU Slim	Selection Europe		
		LCKT	Selection China		
		SANYO	Selection China		
		NECBOX DVA-3206	Selection China		
		AMPIRE DVX-101	Selection Singapore		
		PIONEER	Selection Japan		

OSD MENU

First Menu	Second Menu	Third Menu	Action		DVBT55HD	Pioneer
Config	DVB-T(DMB)	ELT-DVBT20	Selection Europe			
		NET-770	Selection Korea			
		MEDIALIFE	Selection Korea			
		PANASONIC	Selection Japan			
		PIONEER	Selection Japan			
		GEX-DTV	Selection Japan		DVB-T2010HD	
		PORTUGAL	Selection Europe			
		DVB-T20010HD	Selection Europe			
		DVBT55-HD	Selection Europe			
	CMMB-ZW	Selection China				
Reset	EXCUTE	Config Menu all Reset				
LCKT	PIONEER	ELT-DVBT20	Portugal	CMMB-ZW	GEX-DTV	GEX-DTV
						

OSD Menu

MENU	Option		NAVI
Config	RearCam-Type	ExtDevice	
Option	RearCam-Power	Off	
Image	FrontCam-Type	ExtDevice	
Screen	FrontCam-Power	Off	
Parking	Safe Mode	Off	

First Menu	Second Menu	Third Menu	Action
Option	RearCam – Type	OEM	Original Rear 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 Front 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 Menu

► 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(DTV),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

OSD Menu

► OSD Setting – Parking Mode

MENU	Parking / Display	REAR
Config	Display	On Off
Option	Horizontal	25
Image	Vertical	50
Screen	Space	50
Parking	Transparency	40

- Display : Parking line display On/Off
- Horizontal : Parking line move Left/Right
- Vertical : Parking line move Up/Down
- Space : Parking line space
- Transparency: Parking line transparency



OSD Menu

► OSD Setting – Screen Mode

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

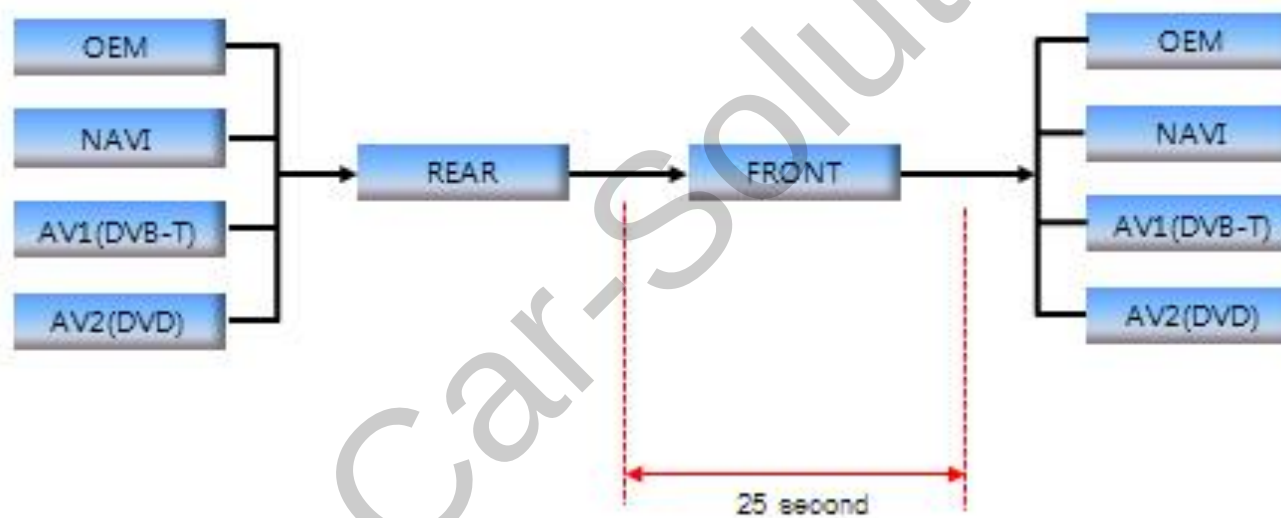
- Horizontal
- Vertical
- Scaler X Up
- Scaler X Down
- Scaler Y Up
- Scaler Y Down

OSD Menu

► OSD Setting – Front Camera Auto Mode

- Option --> RearCam-RcvOpt -> On setting

MENU	Option / RearCam-RcvOpt		REAR
Config	FrontCam-Det	ExtWire	
Option	Safe Mode	Off	
Image	RearCam-RcvOpt	On	
Screen	AV Out	AV1	
Parking	Reset	Execute Cancel	



OSD Menu

► OSD Setting – Utility Mode

- Utility --> Factory Reset

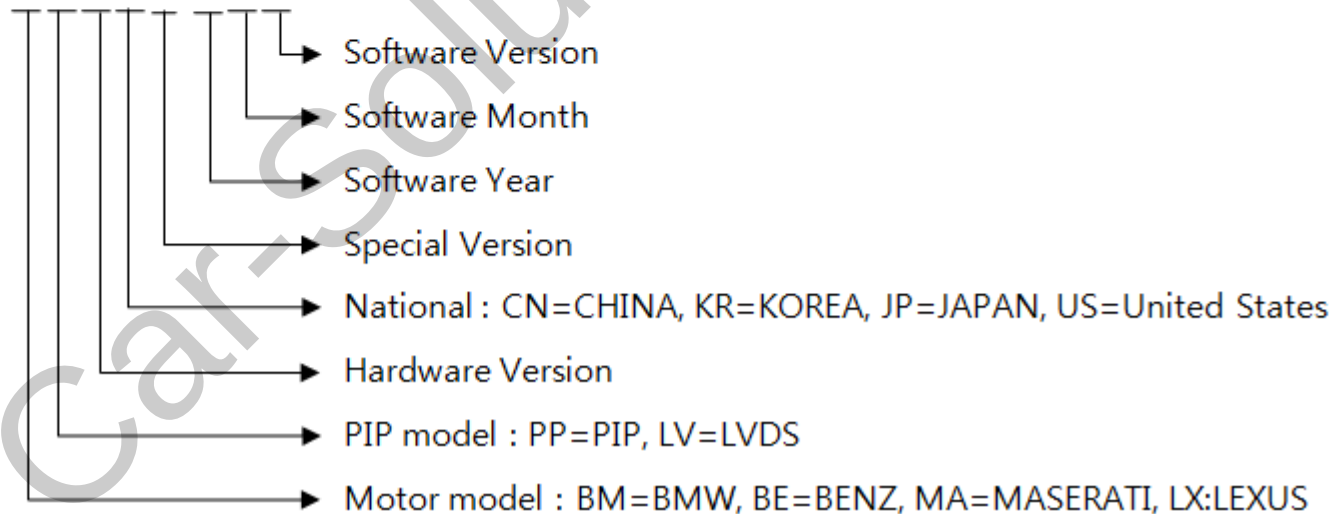
MENU	Utility / Factory Reset	REAR
OSD	Factory Reset	Execute Cancel
Utility	Version	BEPP06SGX-130950

- Reset All : All setting to default

- Info : firmware version

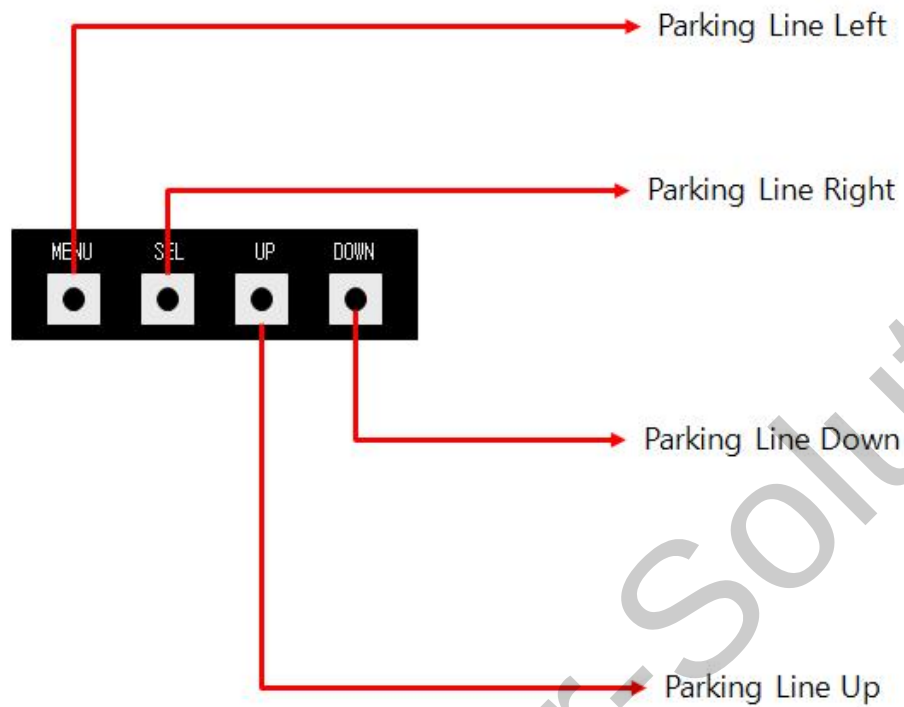
If you update firmware, please check firmware version.

Last Source : BEPP06SGX-130950



OSD Menu

► OSD Control Board



* Parking Line can control to Left/Right/Up/Down



Parking Line Left



Parking Line Right



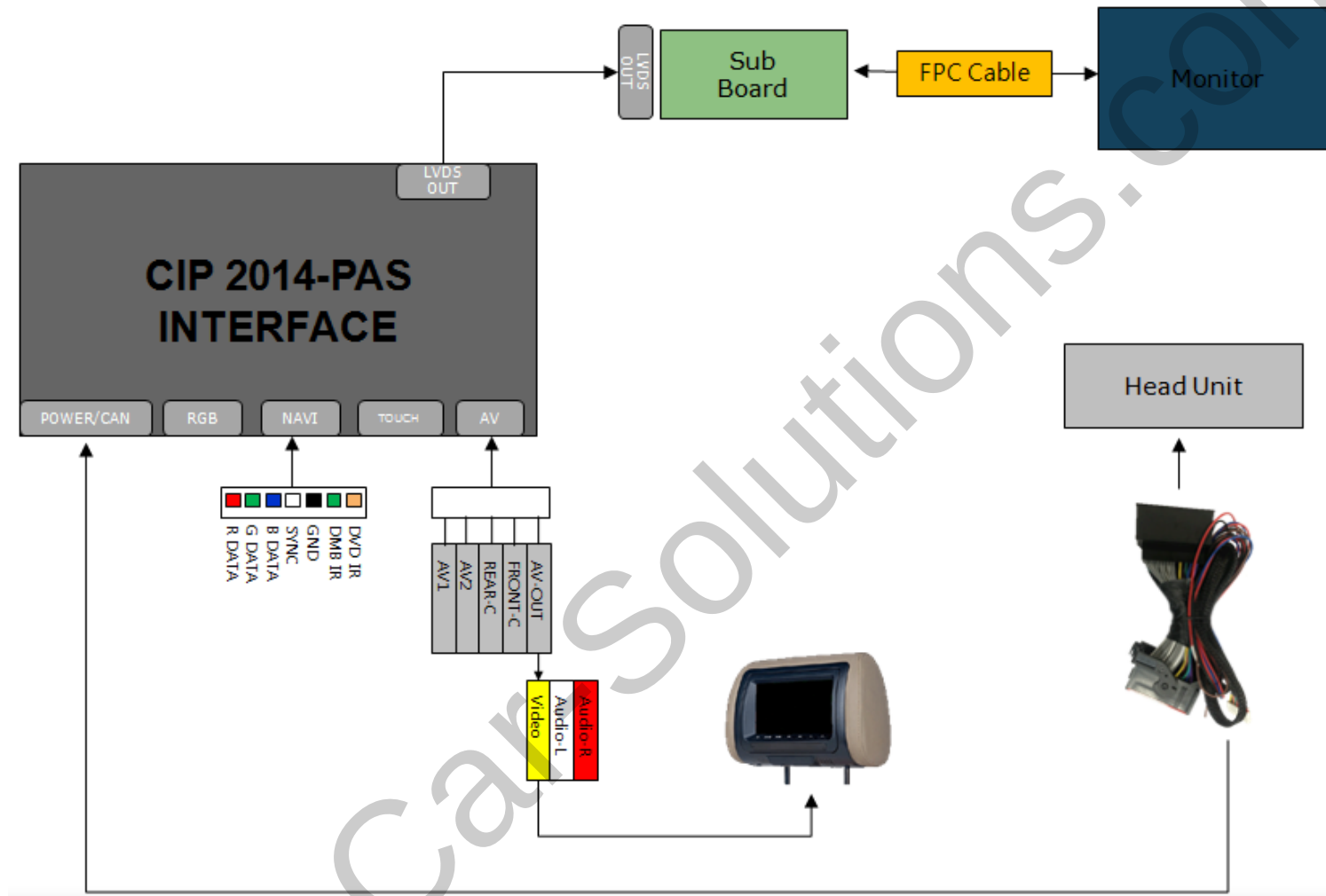
Parking Line Down



Parking Line Up

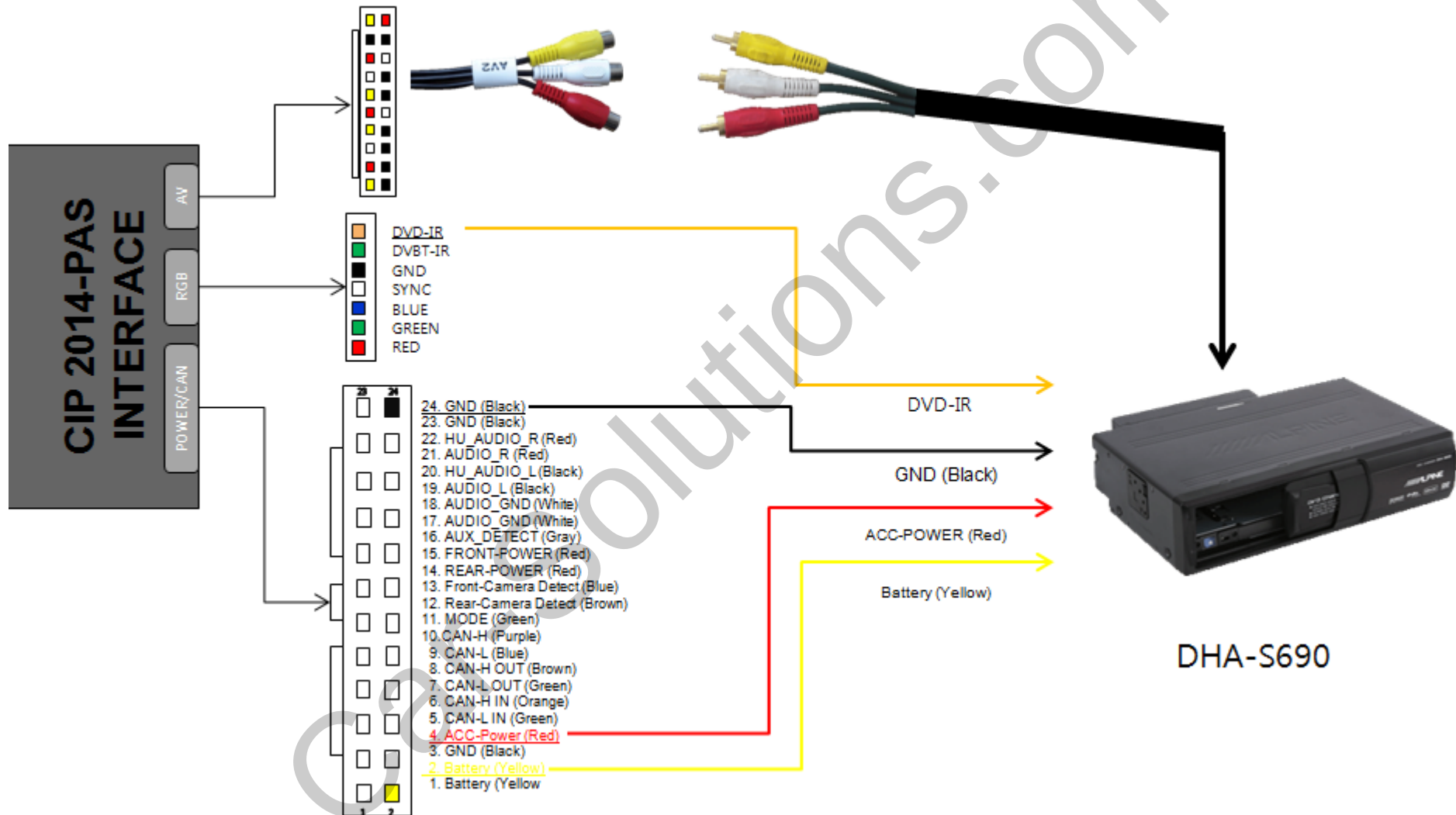
Install Page

► Installation Diagram



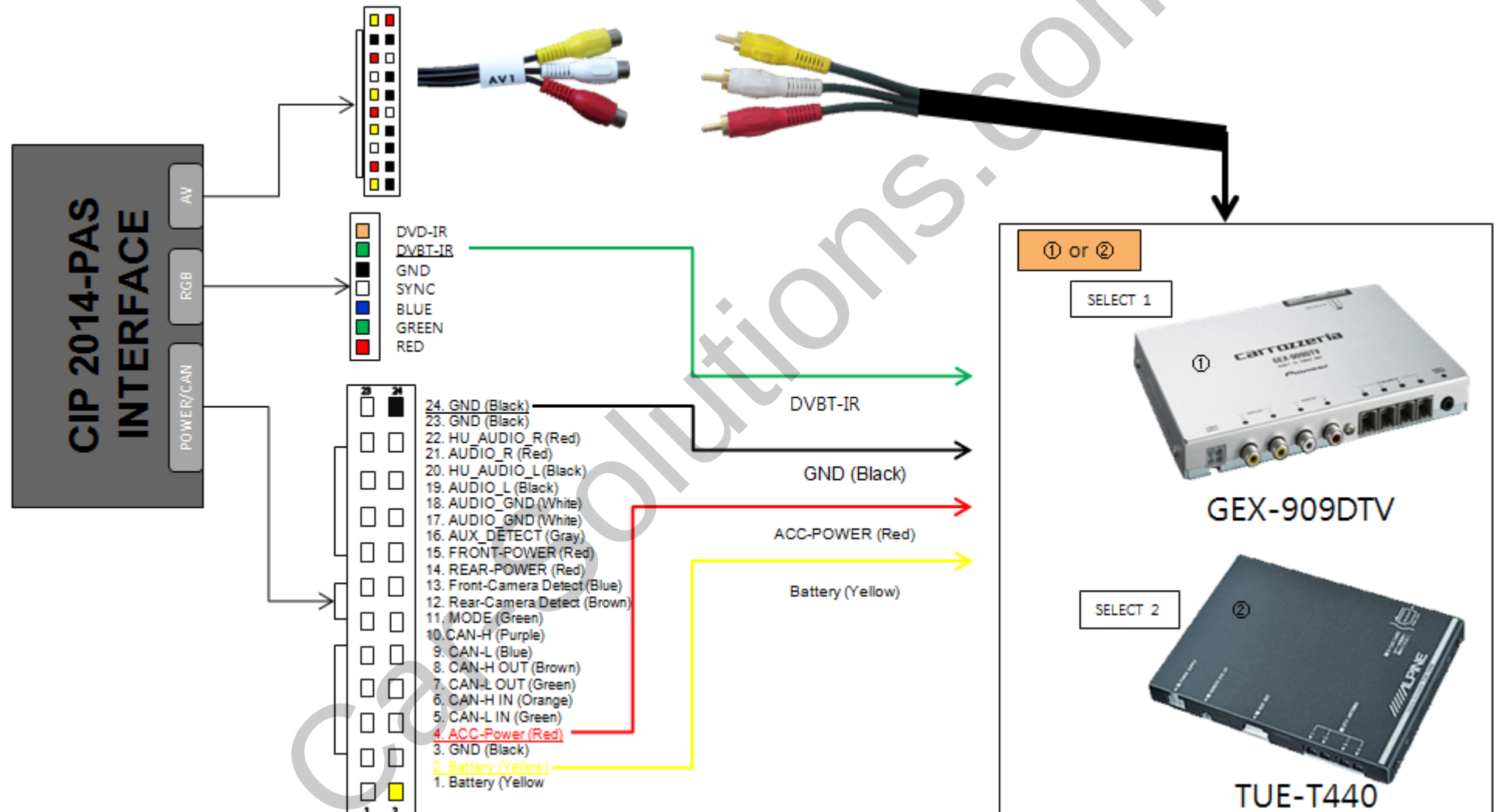
Install Page

► Installation DVD Remote Control Connection



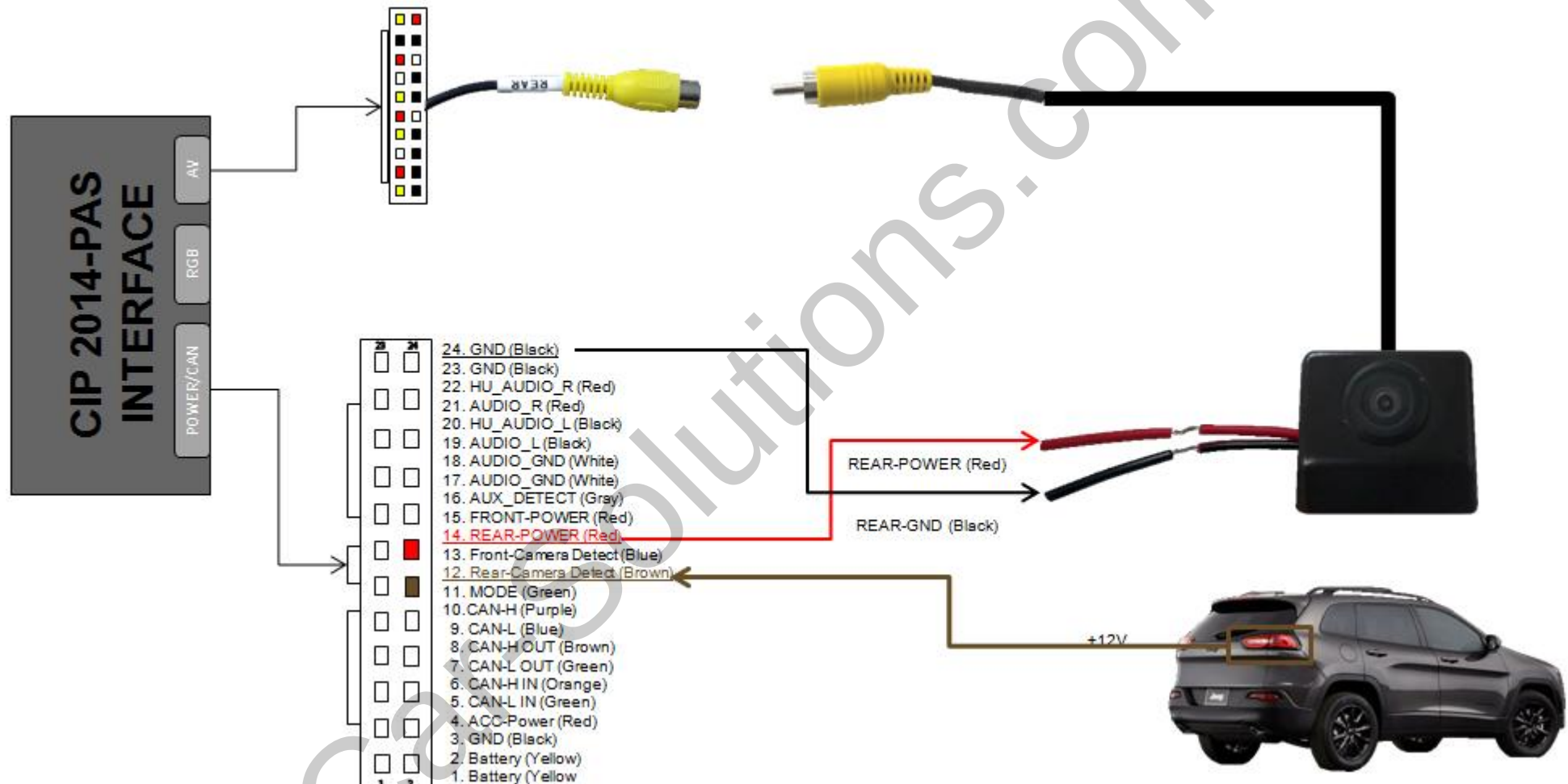
Install Page

► Installation DVB-T Remote Control Connection



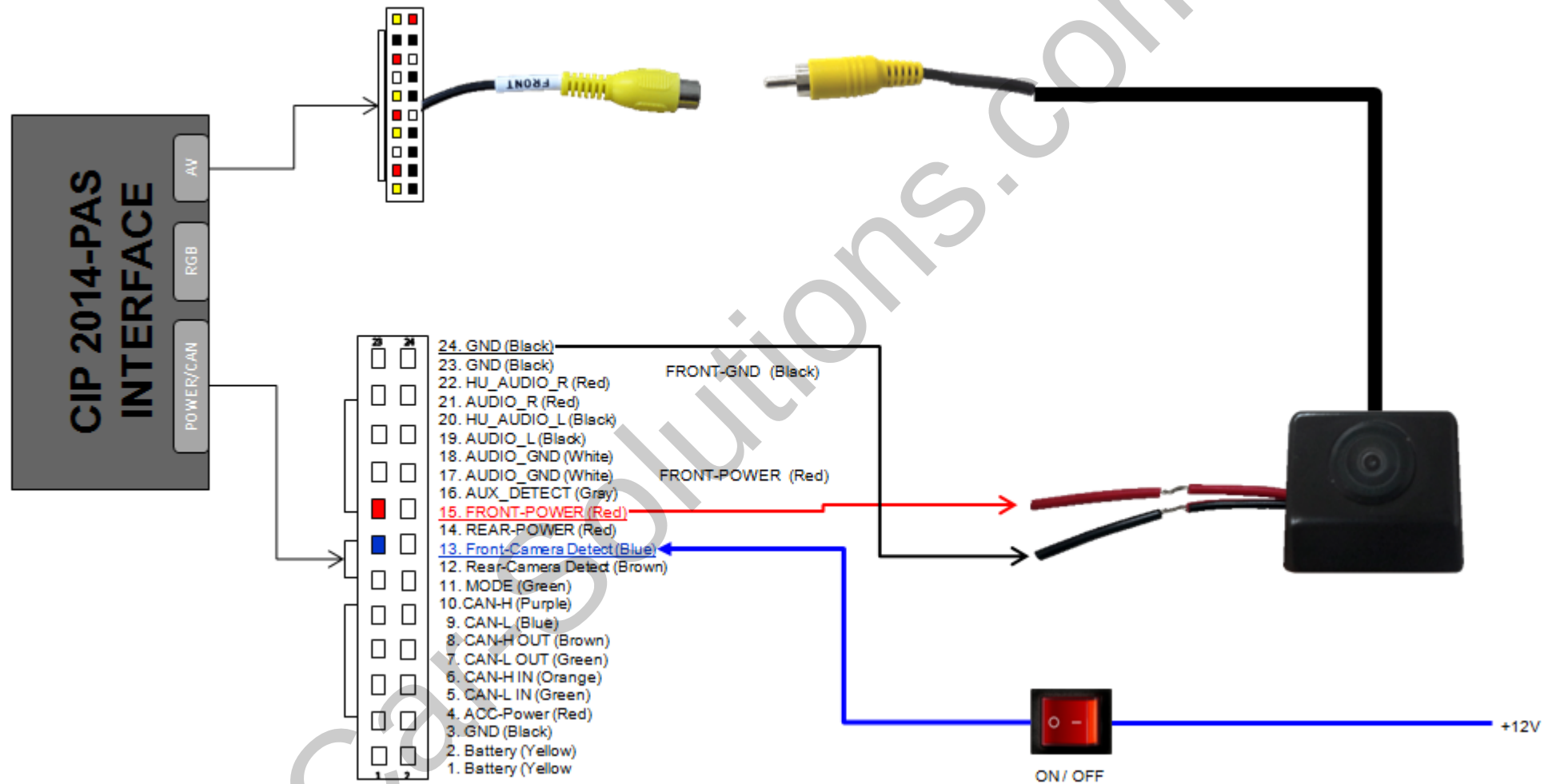
Install Page

► Installation External Reverse(Rear) Camera Connection



Install Page

► Installation External Front Camera Connection



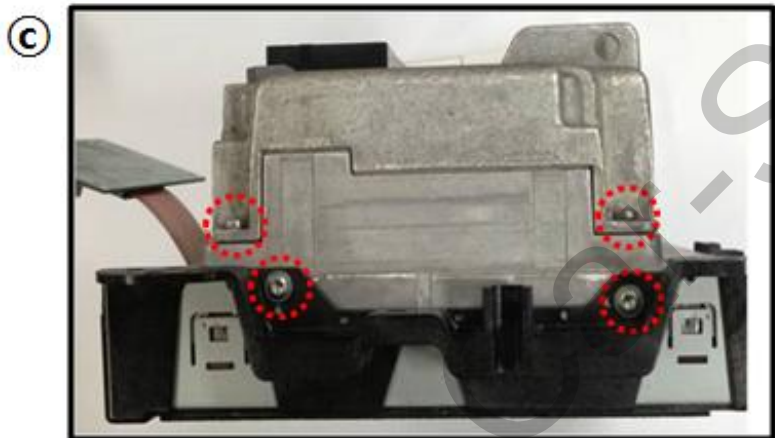
Install Page



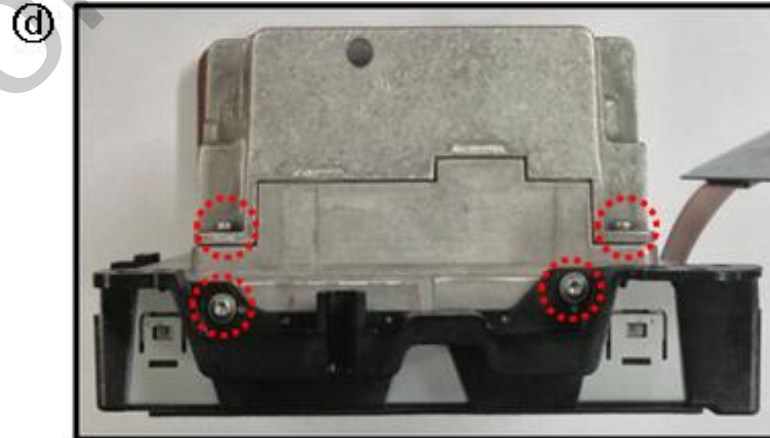
Take out Front Cover



Pull out 7mm bolts



Pull out Bolts



Pull out Bolts

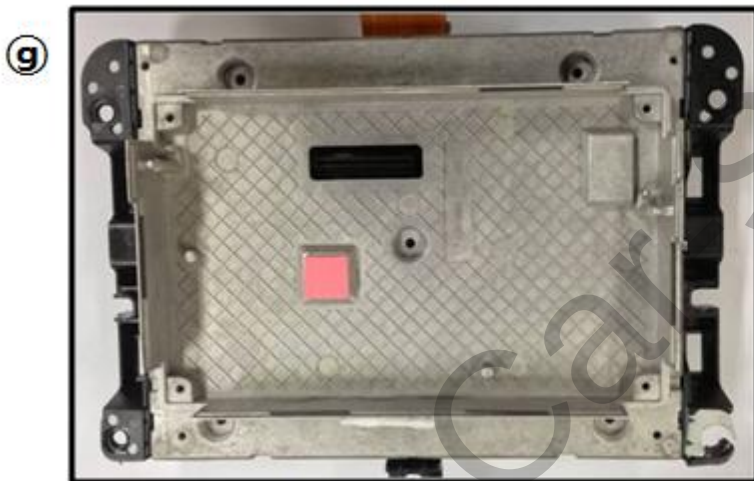
Install Page



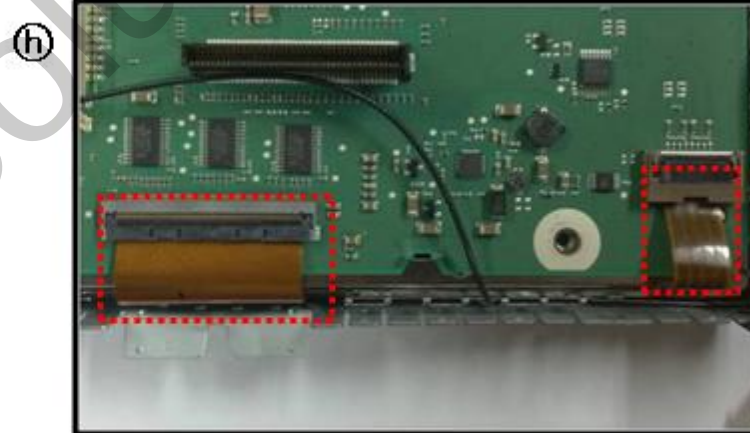
Pull out Back Cover



Pull out OEM BOARD

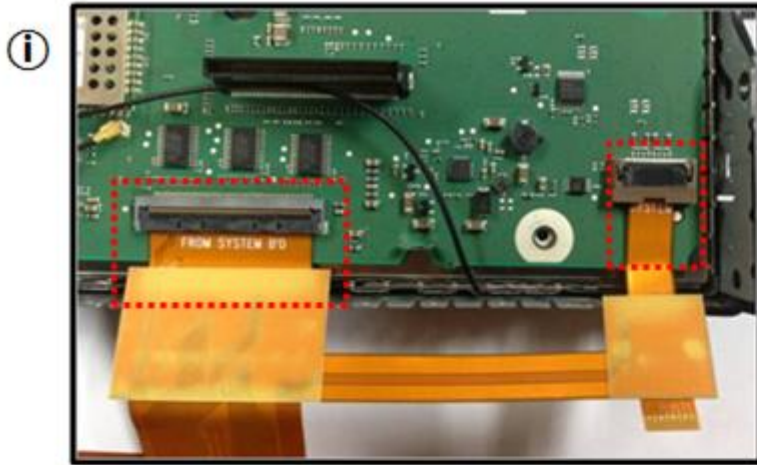


Pull out Back Cover

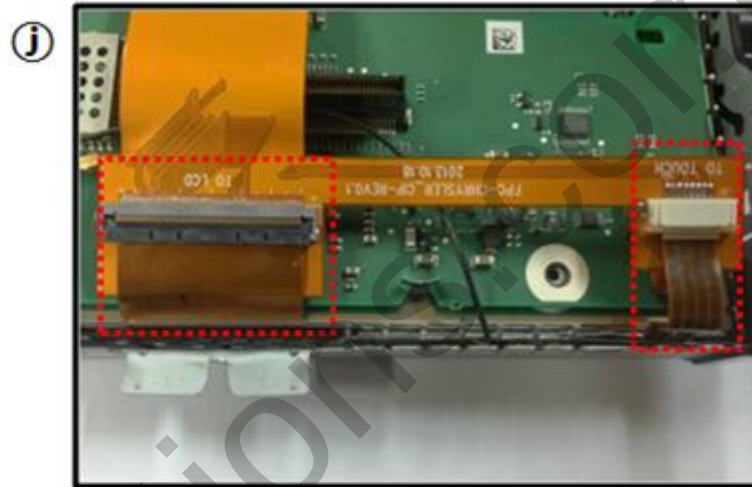


Pull out OEM FPC CABLE

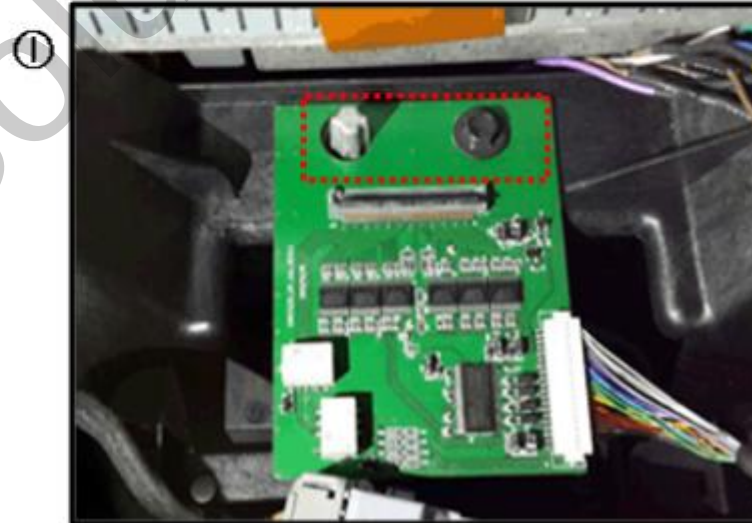
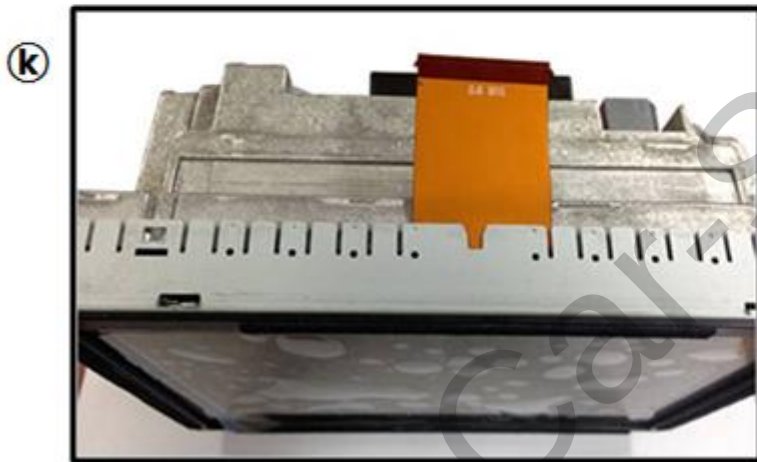
Install Page



Install our FPC CABLE

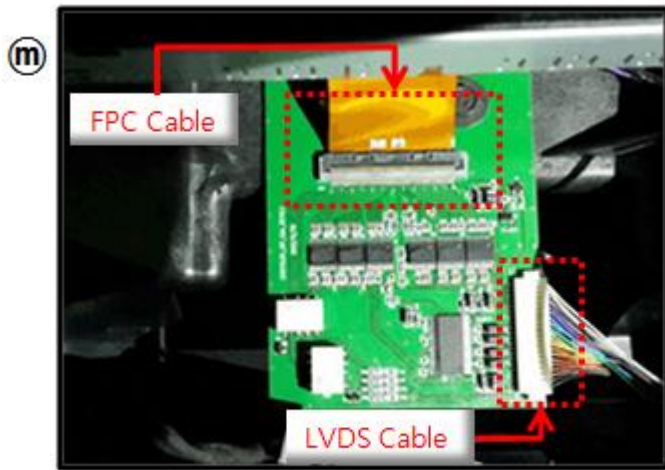


Install OEM FPC CABLE



Install SUB BOARD

Install Page



FPC Cable and LVDS Cable connect to Sub-Board

FAQ

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

- After acc turn on, 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 not turning on, there is no input device.
- **RED** LED and **GREEN** LED both are not turn on, check to power cable.

2. When monitor changed to Orange color.

- LVDS cable contact problem or cable problem.

3. CIP SYSTEM and CTP SYSTEM



CTP system : ex) CHRYSLER 300C 2011~
DODGE Journey 2011~
FIAT Freemont 2013~
Maserati Quattroporte 2014~
Maserati Ghibli 2014~



CIP system : ex) 2014 JEEP Grand Cherokee