

BMW PIP Interface

Specification

Contents

3	Specification
4	Block Diagram
5	About Interface - Dimension - External Appearance
7	Connector Pin Assignment
8	Product Composition
9	DIP S/W Setting
10	Steer Wheel Control usage
11	I-Drive Control usage
15	Control usage
16	OSD Menu
20	Front Camera
21	Installation Guide
26	FAQ
27	Contact us

Specification

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 I2S 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)

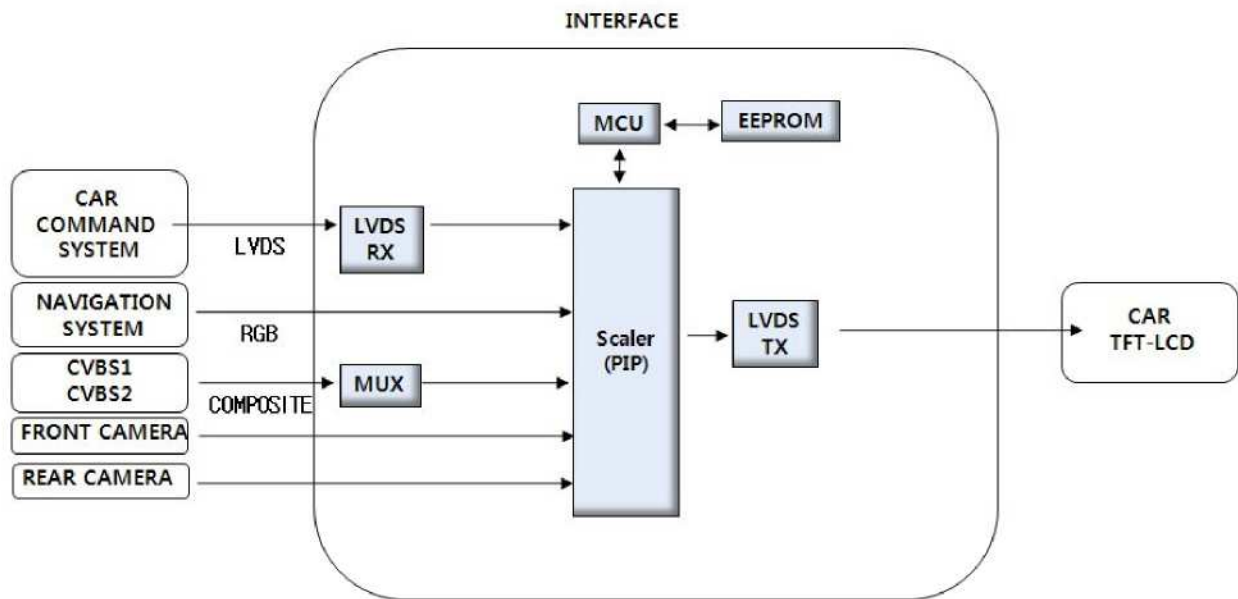
3.Power Spec.

- 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

Block Diagram



About Interface

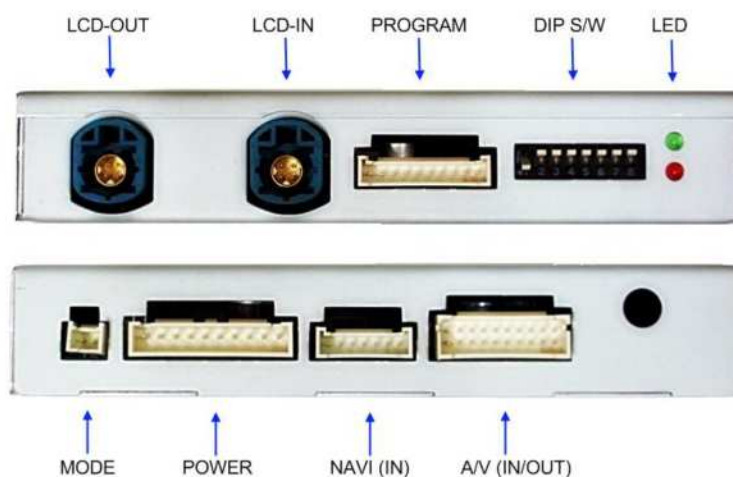
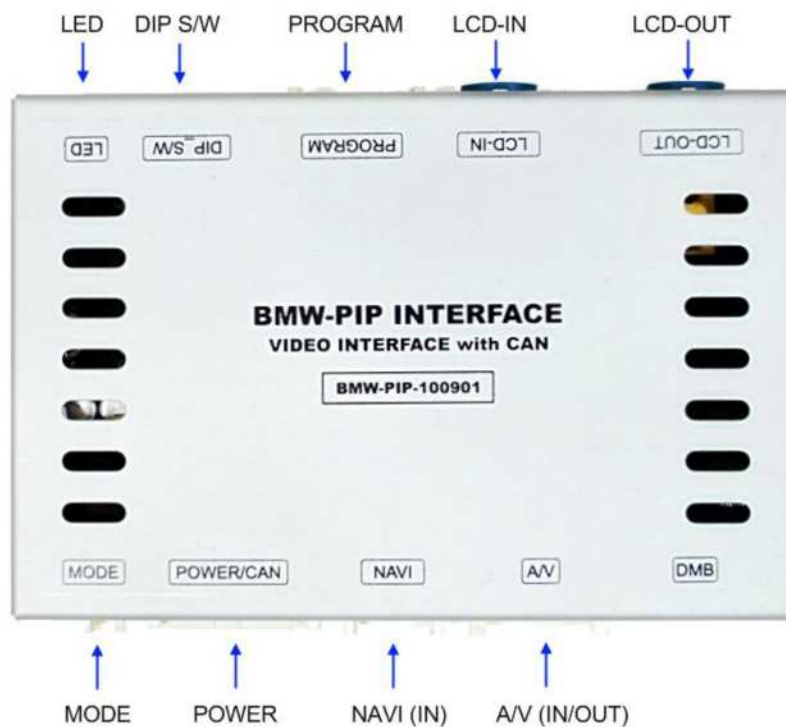
- Dimension
125mm*84mm*23mm



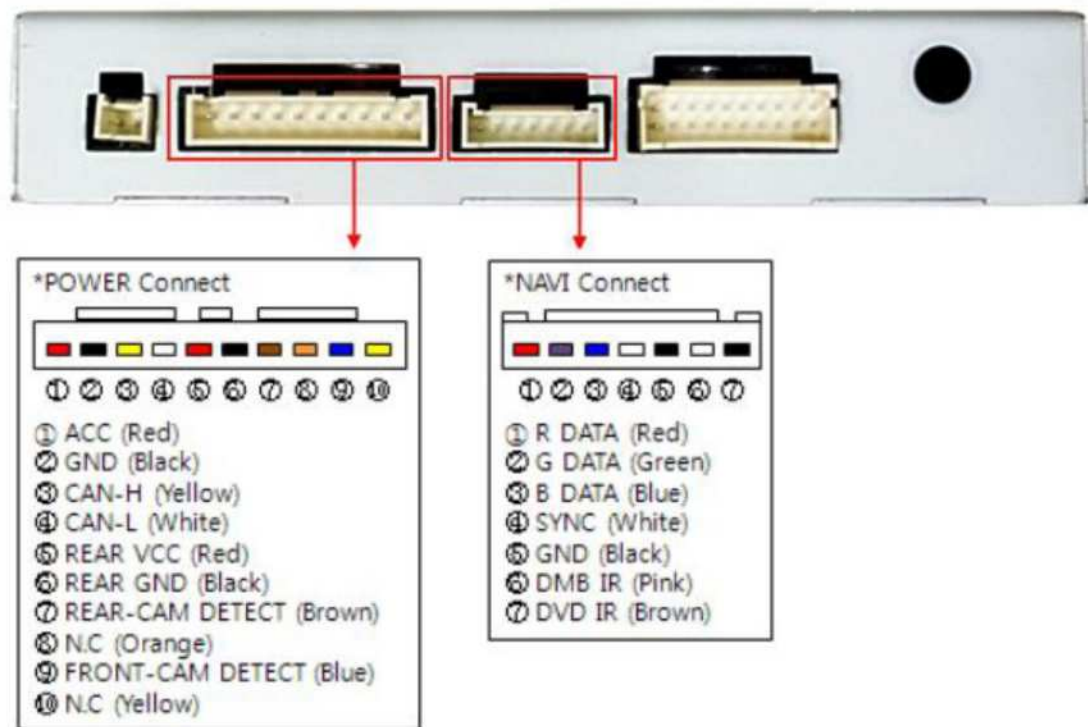
* This can change under manufacturer's circumstance

About Interface

- External Appearance



Connector Pin Assignment



Product Composition



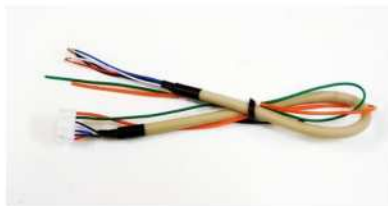
Interface Board 1 EA



Power Cable 1 EA



Mode S/W 1 EA
(★ Option)



RGB/Nav Cable 1 EA



A/V Cable 1 EA



LMS Cable 1 EA

DIP S/W Setting

※ ON: DOWN, OFF: UP

Pin	FUNCTION	DIP S/W Selection
1	RGBINPUTMUTE	ON : Skipping RGBMde OFF : RGBDisplay
2	CVBS1 MUTE	ON : Skipping CVBS1 OFF : CVBS1 Display
3	CVBS2 MUTE	ON : Skipping CVBS2 OFF : CVBS2 Display
4	CARTYPE	ON : 2013 + (Russia) OFF : 2009~2012 Year
5	CARTYPE	ON : 8.8 Size(E90) OFF : 10.25 Size(F10)
6	CARTYPE	ON : 10.25 Size(F01) OFF : 10.25 Size(F10)
7	REARMODE	ON : OEMRear Camera OFF : External Rear Camera
8	CARTYPE	ON : 6.5 and 7 Size OFF : 10.25 Size(F10)



E90 (8.8"): 3, X5, X6 Series



F01 (10.2"): 7 Series



F10 (10.25"): 5 Series



F10 (6.5" , 7"): 5 Series



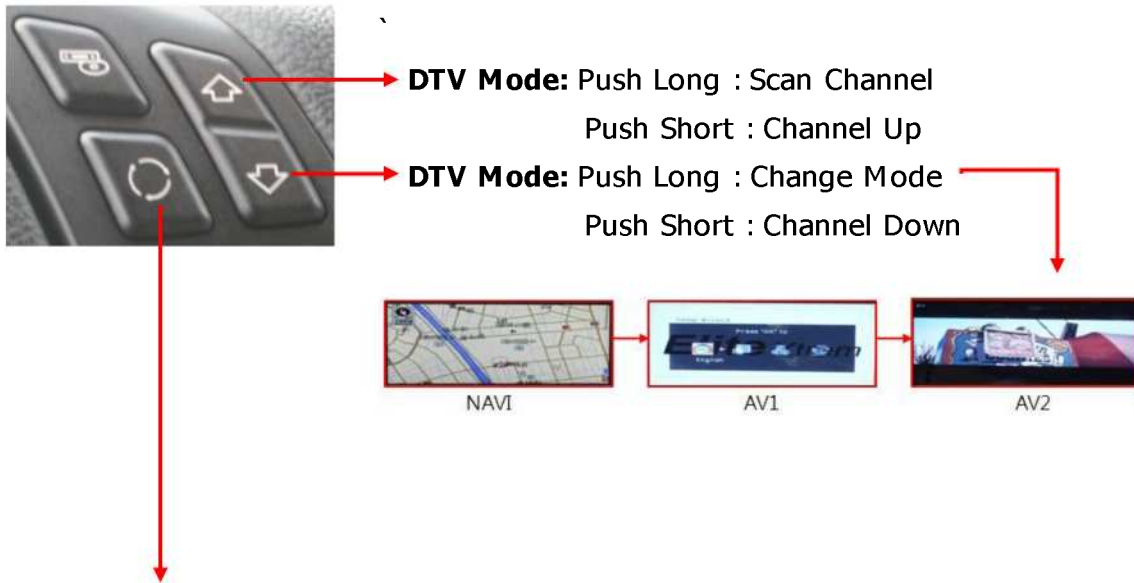
F10 (china 6.5" 7"): 5 Series



Mini Series

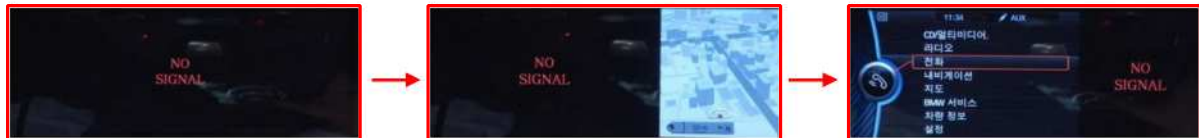
Steer Wheel Control usage

EX) BMW E90



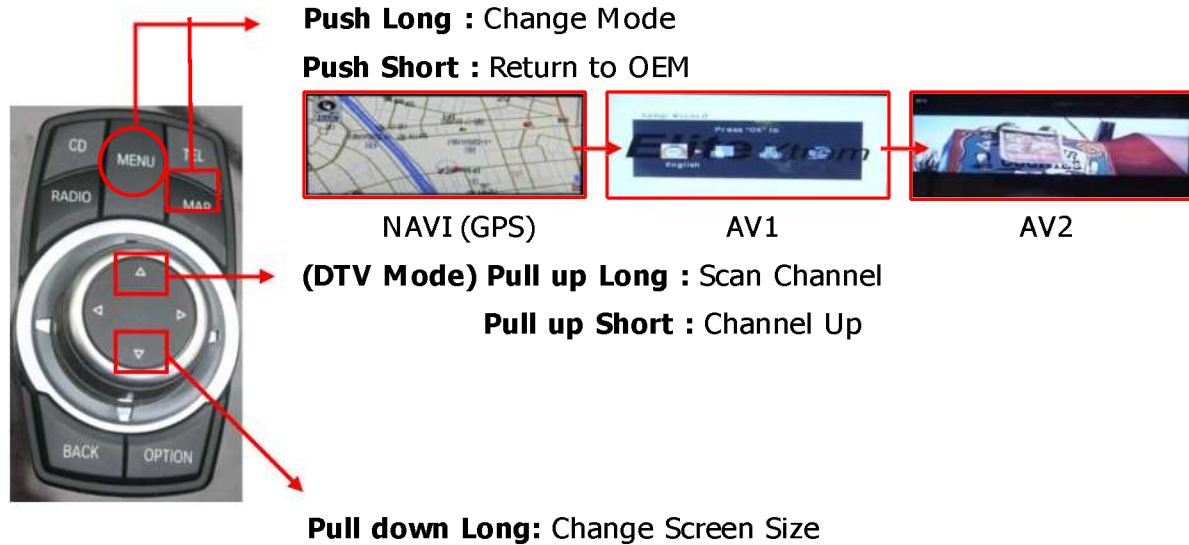
Push Long: Change Screen Size

AV Mode :

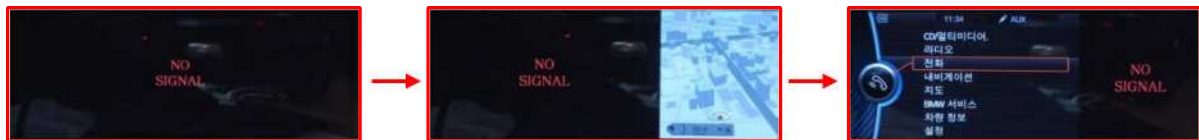


I-Drive Control usage

E90, F01, F10



AV Mode :

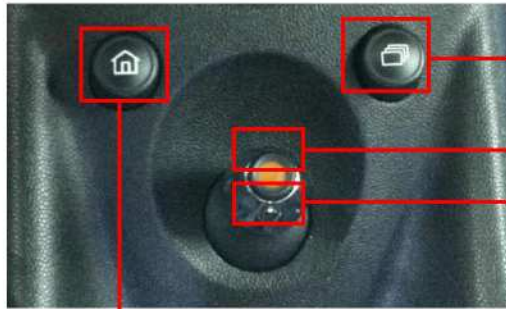


- **Map Button** : "OEM DTV " installed car case:

"Menu" button cannot work, So, Use "Map" Button to change mode.

I-Drive Control usage

EX) MINI I-DRIVECONTROL



Push Short : Screen PIP (For GI-5000)

Push Long : Go to OSD Menu

DTV Mode: Push Short : Channel Up

Push Short : Channel Down

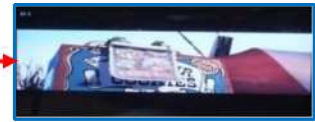
Push Long : Change the Mode,
Push Short: Back to OEM screen.



NAVI



DTV (CMMB)



DVD

I-Drive Control usage

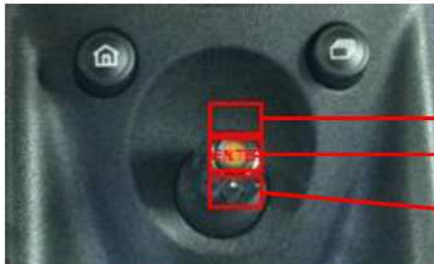
Control DVDUI (E90, F01, F10)



Icon image Move to right

Push Long : DVD UI ON, Push Short : Enter the Icon

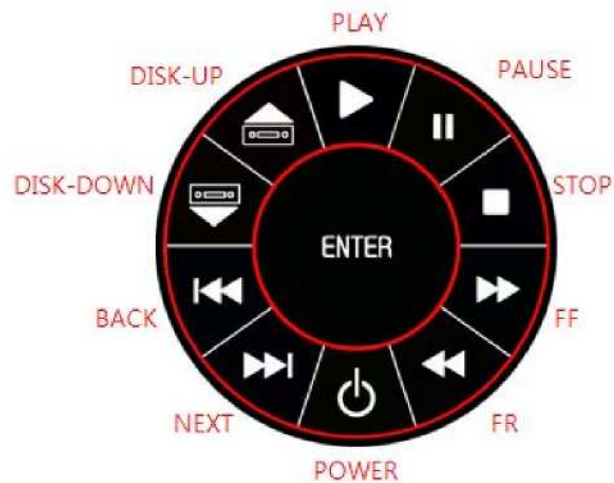
Icon image Move to right



Icon image Move to right

Push Long : DVD UI ON, Push Short : Enter the Icon

Icon image Move to right



I-Drive Control usage

Control DVDUI (E90, F01, F10)

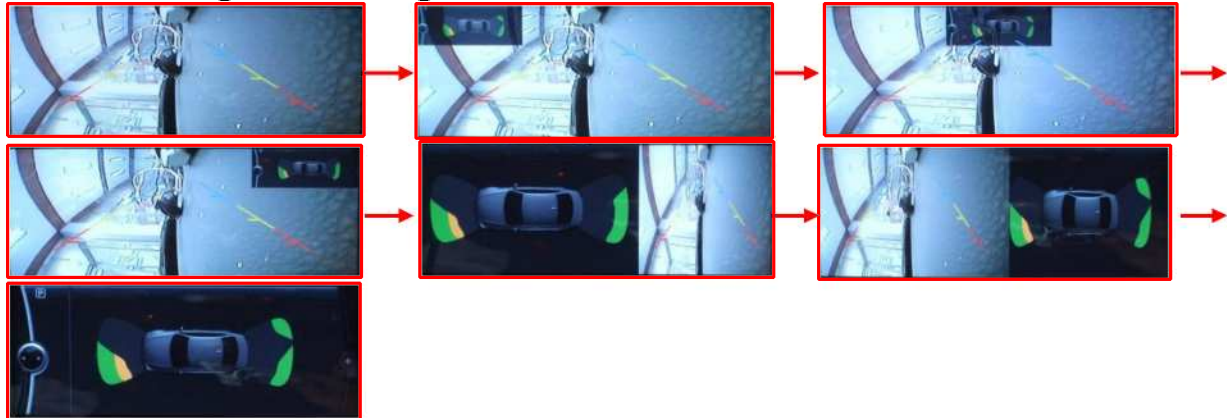


Control usage

Rear Image Control
(E90, F01, F10)



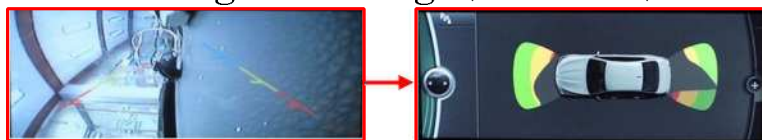
7 Screen image size Change (E90, F01)



3 Screen image size Change (F10)



2 Screen image size Change (7 Inch size)



Control usage – MINI

MINI Rear Camera 4 size.



OSD Menu



- ▶ RGB Mode: Contrast, Brightness
- ▶ AV1, AV2, Rear Mode:
 - Contrast, Brightness, Saturation, Hue, Sharpness
 - Setting each AV1, AV2, Rear Mode separately

▶ RGB Mode

MENU	Image	NAVI
Image	Contrast	42
OSD	Brightness	50
Parking	Saturation	50
Config	Hue	50
Utility	Sharpness	25

▶ AV1 Mode

MENU	Config	AV-2
Image	DMB(DTV)	EliteXtrem. ELT-DVBT20
OSD	DVD	EliteXtrem. ELT-9800U S1
Parking	NAVI	LCKT.
Config	SafeMode	Off
Utility	Reset	Execute Cancel

▶ AV2 Mode

MENU	Config	AV-1
Image	DMB(DTV)	EliteXtrem. ELT-DVBT20
OSD	DVD	EliteXtrem. ELT-9800U S1
Parking	NAVI	LCKT.
Config	SafeMode	Off
Utility	Reset	Execute Cancel

▶ Rear Mode

MENU	Parking	REAR
Image	Display	On
OSD	Horizontal	50
Parking	Vertical	50
Config	TP	40
Utility	AutoPower	Off

OSD Menu

► OSD Setting - Config Mode

MENU	Config	NAVI
Image	DMB(DTV)	EliteXtrem. ELT-DVBT20
OSD	DVD	EliteXtrem. ELT-980XUSLIM
Parking	NAVI	LCKT.
Config	SafeMode	Off
Utility	Reset	Execute Cancel

- DIV: Model Select
 - ① EliteXtrem ELT-DVBT20: OK
 - ② NETWORK NET-770: OK
 - ③ MEDIALIFE: Not Yet
 - ④ PANASONIC: OK
 - ⑤ PIONEER: OK
- DVD: Model Select
 - ① EliteXtrem ELT-980XUSLIM: OK
 - ② LCKT: OK
 - ③ SANYO: Not Yet
- NAVI (GPS) : Model Select
 - ① PANASONIC: OK

		E90	F01	F10	7" Inch
NAVI	PANASONIC	O	O	O	O
DIV	ELT-DVBT20	O	O	O	O
	NET-770	O	O	O	O
	MEDIALIFE				
	PANASONIC	O	O	O	O
	PIONEER	O	O	O	O
DM	ELT-980XL	O	O	O	O
	LCKT	O	O	O	O
	SANYO				

OSD Menu

► OSD Setting - Parking Mode

MENU	Parking	REAR
Image	Display On	Off
OSD	Horizontal 50	
Parking	Vertical 50	
Config	TP 40	
Utility	AutoPower Off	

- Display : Parking line display On/ Off
 - Horizontal : Parking line move Left/ Right
 - Vertical : Parking line move Up/ Down
 - TP : Parking line clarity
 - AutoPower : Parking line ACC control
- On:** Rear camera get a power supply when reverse gear on.
But, Depend on camera Spec. sometimes noise image happen.
- Off:** Rear camera get a power supply continuous.



Vertical

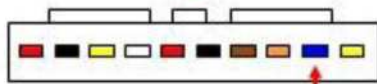
Horizontal

► OSD Setting - Utility Mode

MENU	Utility	NAVI
Image	Reset All	Execute Cancel
OSD	Info	System Version = 01.01
Parking		
Config		
Utility		

- Reset All : Initialization
- Info : Software version.

Front Camera



+12V, Work on.

Cannot work on "Rear camera" mode
Work on "CEM, NAVI, AV1, AV2" mode

"Front" appears for 3 sec
When in change mode.



Installation Guide

※ Take out Monitor, Don't need take out Command



Take out Monitor and air ventilation
(Unscrew upward from monitor)



Full out LVDS cable and Monitor cable



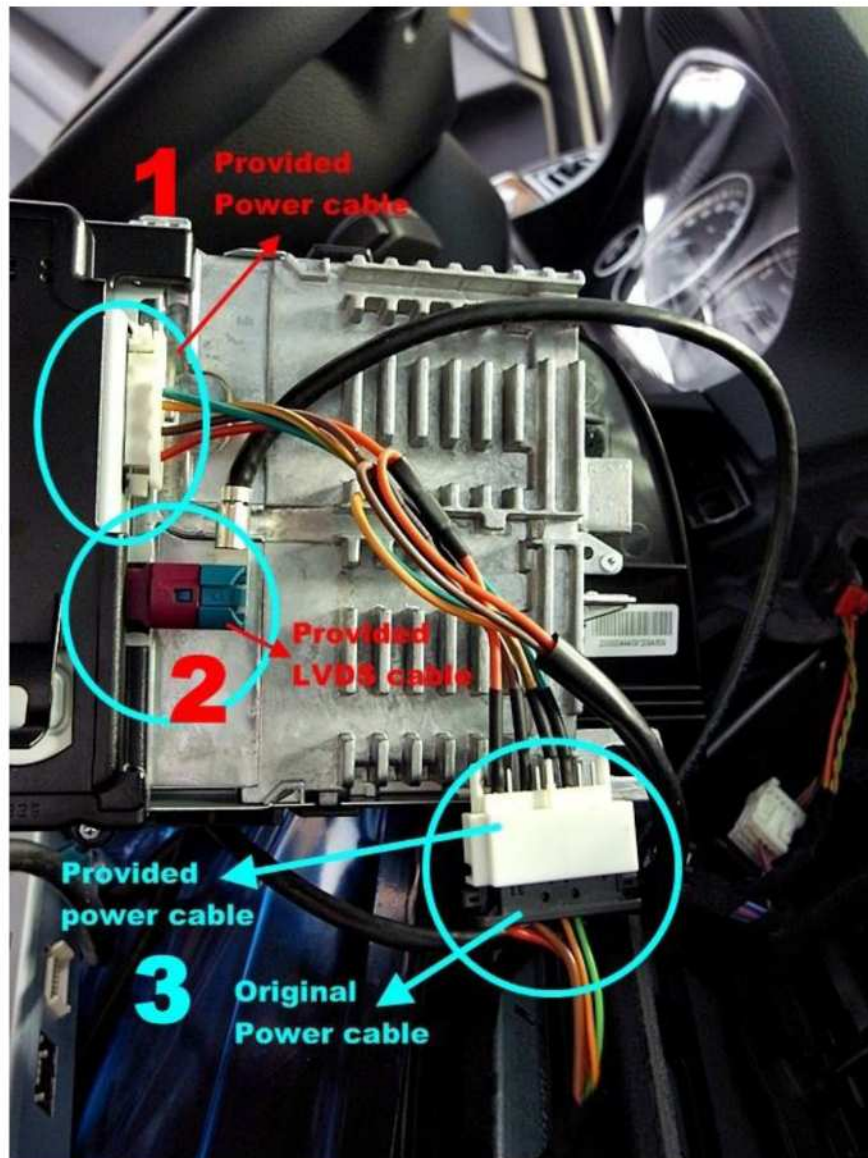
Connect original monitor connector and
our monitor connector each other

Then connect our monitor power cable to
monitor



Connect to our LVDS cable to monitor

Installation Guide



1. Connect provided power cable to monitor:
2. Connect provided LVDC cable to monitor:
3. Connect Provided power cable and original power cable each other:

(All Installations are in the same way as like photo)

Installation Guide **F10**

※ Take out Monitor, Don't need take out Command



**2010 BMW 5-SERIES F10
(10.25 Inch Monitor)**



Take out air ventilation

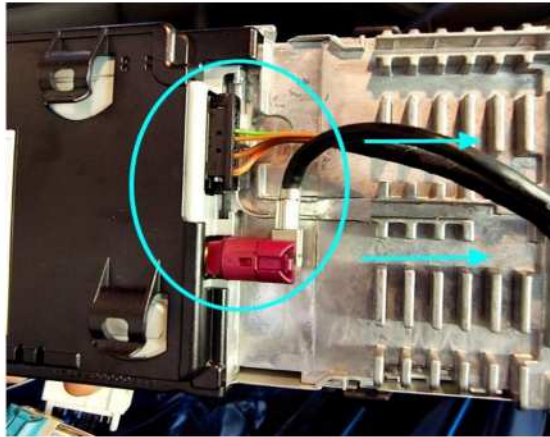


Remove the bolts (1)



(2)

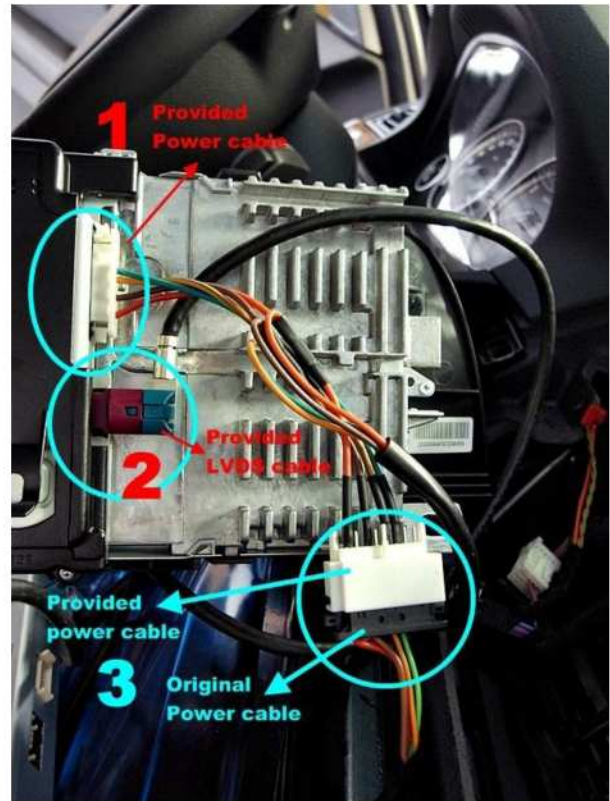
Installation Guide F10



Pull out Original power cable
and LVDS cable From monitor



Our LVDS cable connect to
Interface LCD-OUT



1. Connect provided power cable to monitor:
2. Connect provided LVDC cable to monitor:
3. Connect Provided power cable and original power cable each other.

Installation Guide **F10**



OEM LVDS cable connect to
Interface LCD-IN



Interface position