Cadillac Manual - Escalade 2016~ - CTS 2014~

- MODEL : ML-PAS-190402

- DATE : 2020.04.06

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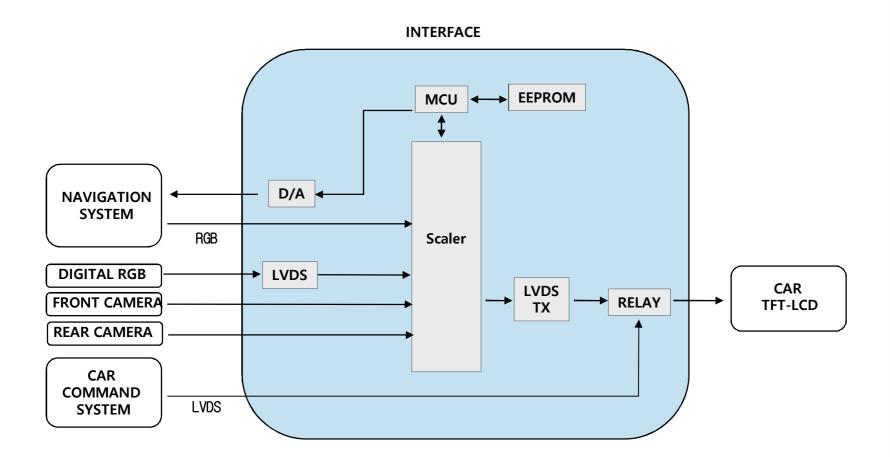
1. Main Spec.

- 1. Input Spec. (MULTI VIDEO INTERFACE)
 - 1 x Digital RGB Input (Navigation System output)
 - 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)

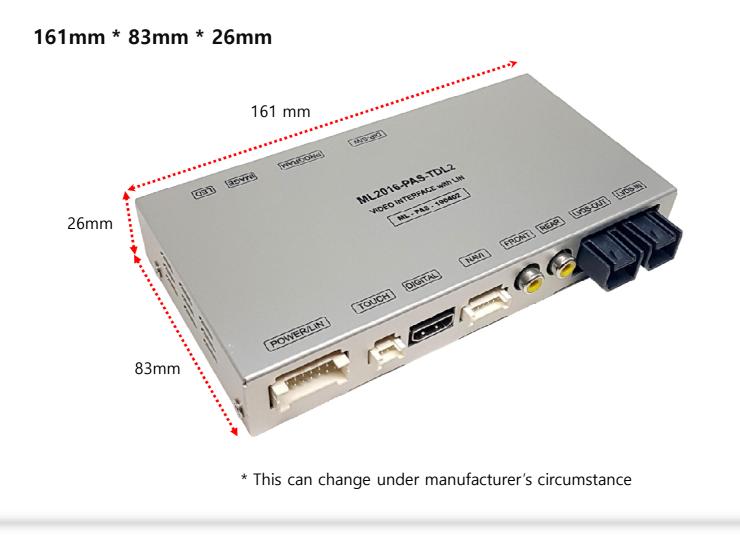
2. Output Spec.

- 1 x LVDS Output (LCD Operation)
- 1 x Vertual Analog Touch (Navigation System source)
- 1 x Uart Digital Touch (Navigation System source)
- 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

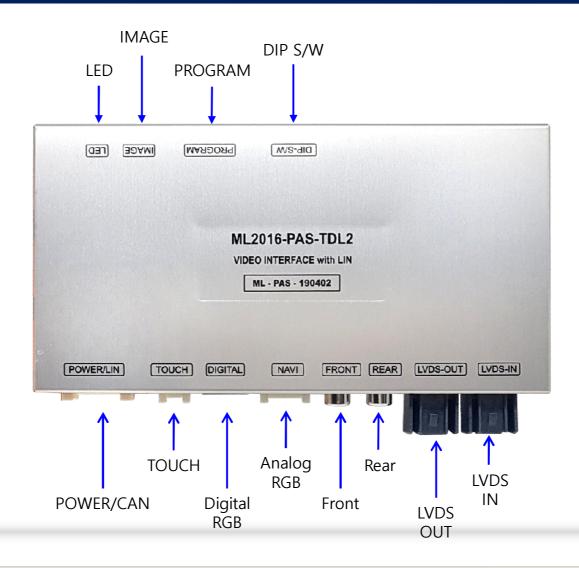
2. Block Diagram



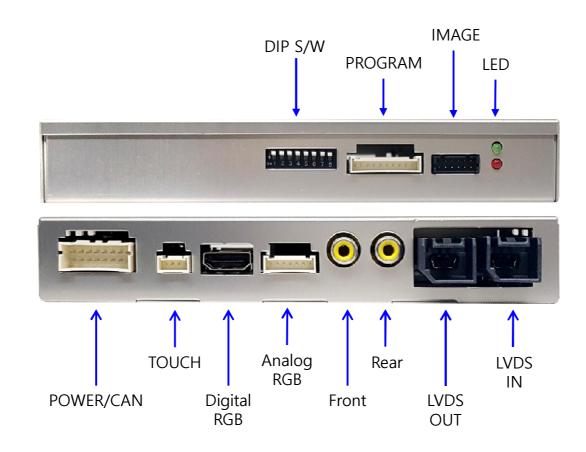
3. Dimension



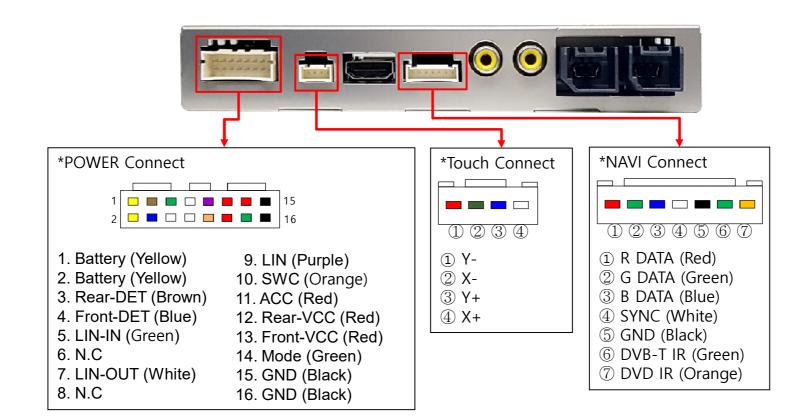
4. External Appearance



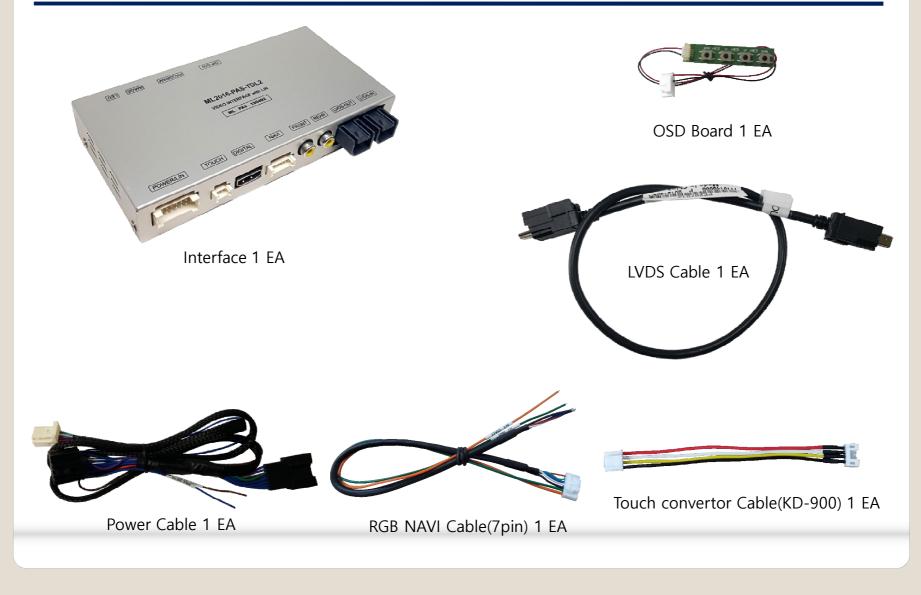
4. External Appearance



5. Connector Pin Assignment



6. Product Composition



6. Product Composition Option

* CarPlay Set Sales(option)



Interface 1 EA



Power Cable (500mm) 1 EA



AUX Cable 1 EA



ACC Board 1 EA





Microphone 1 EA

7. DIP S/W Setting

* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	AV1 (DVB-T)	ON : Skipping Video OFF : Display
3	AV2 (DVD)	ON : Skipping Video OFF : Display
4	N.C	
5	N.C	
6		
7	CAR type SEL	Right Picture
8		

* DIP S/W Example



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8. Mode Change

* 화면 전환 방법



MENU	ChgMode Opt		NAVI	
Config	FrontCam-Det	FrontCam-Det ExtWire		
Option	FrontCam-RcvOpt		Os	
Image	AV Out	USER		
Screen	B/T Call	On		
Parking	ChgMode Opt	Double	Long	

- You can select between two methods when changing the screen by pressing HOME button.
 - Double : Press Home button twice quickly.
 - Long : Press and hold Home button.

9. Touch Control

Touch control - Calibration



Press and hold for more than 11 seconds on NAVI, DVB-T, DVD screen. (Note that it only works the first time after switching screens)

OR

MENU	Calibrat	ion NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	FDSHOOKRX-180112

2.....

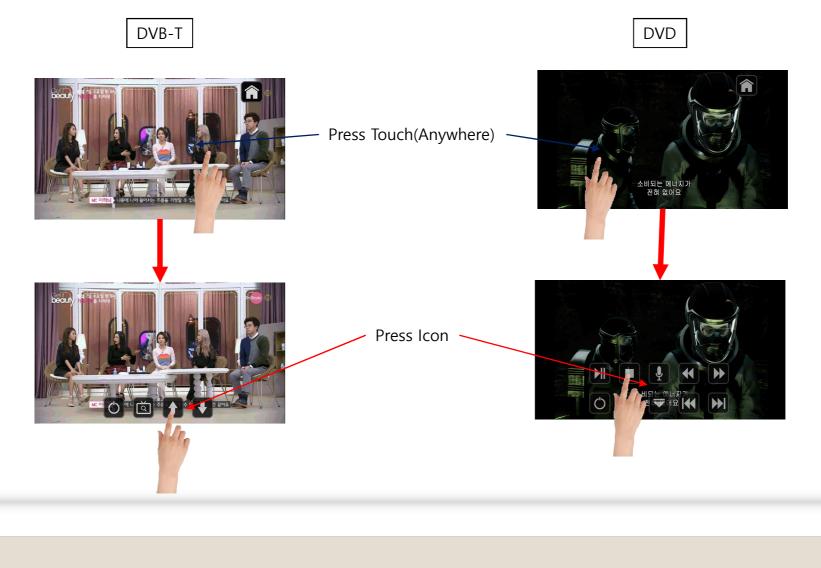
OSD menu -> Utility -> Calibration



+ Touch according to the shape coordinates.

9. Touch Control

DVB-T/DVD Control



OSD Control Board



MENU	When there is no OSD screen, pressing OSD ON When OSD screen is displayed, press OSD EXITT
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

Mode State

MENU	Option	NAVI
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	ExtDevice
First Menu	Second Menu	Third Menu

OSD Option

First Menu	Second Menu	Third Menu	Description
	NAVI COM	HMS FINE :	Set up manufacturer of woodworking device for UART Touch use
		OFF	Disable feature
		OEM	Original Camera
	RearCam-Type	ExtDevice	Equipped with external camera
	RearCam-Power	ON	+ 12V continuous supply
Ontion		AUTO	+ 12V supply only in Rear camera mode
Option		OFF	+ 12V off
	RearCam-Det	PDC	Detected by CAN - It is operated by parking sensor
		GEAR	Detected by CAN - It works on reverse signal.
		WIRE	Detected by Rear-Det Wire
		OEM	Original Camera
	FrontCam-Type	ExtDevice	Equipped with external camera

MENU	RearCam-T	ype NAVI
Config	RearCam-Type	OEM
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	ExtDevice

OSD Option

First Menu	Second Menu	Third Menu	Description
		ON	+ 12V continuous supply
	FrontCam-Power	AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off
	FrontCam-Det	CAN	Detected by CAN
	FrontCam-Det	WIRE	Detected by Front-Det Wire
Option	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature
	B/T Call	ON	Switch to OEM screen when you call
		OFF	Disable feature
		Double	Press "HOME" button twice to switch screens
	ChgMode Opt	Long	Press and hold the "HOME" button to switch screens

MENU	FrontCam-Po	wer	NAVI
Config	FrontCam-Power	Auto	
Option	FrontCam-Det	ExtWire	
Image	FrontCam-RcvOpt		Os
Screen	SteeringWheelBtn	Left	
Parking	UI DVB-T(DMB)	On	

OSD Option

First Menu	Second Menu	Third Menu	Description
	Key_Off	ON	Switch to OEM screen when key off
Option		OFF	Disable feature
	Reset		Option Menu all Reset

MENU	UI DYD		NAVI
Config	UI DVD	On	
Option	ScrChg-Call	Off	
Image	ScrChg-Climate	Off	
Screen	ScrChg-Audio-Vol	Off	
Parking	NAVI COM	Off	
MENU	Reset		NAVI
MENU Config	Reset	Execute	NAVI Cancel
		Execute	
Config		Execute	
Config Option		Execute	

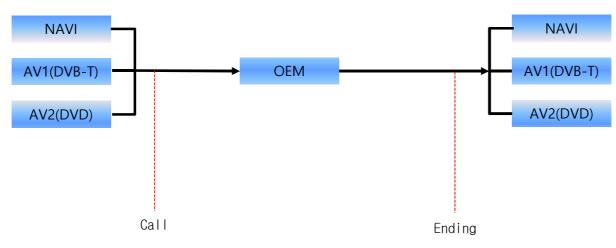
* Bluetooth Screen switching method

MENU	B/T Call		NAVI
Config	FrontCam-Det	ExtWire	A
Option	FrontCam-RcvOpt		Os
Image	AV Out	USER	
Screen	B/T Call	On	Off
Parking	ChgMode Opt	Double	



MENU	B/T Call		NAVI
Config	FrontCam-Det	ExtWire	-
Option	FrontCam-RcvOpt		Os
Image	AV Out	USER	0.0
Screen	B/T Call	On	Off
Parking	ChgMode Opt	Double	R





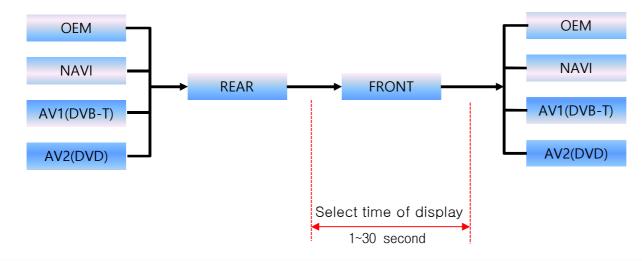
OSD Option -> FrontCam-RcvOpt

Front Camera Auto Mode

0 second = FrontCam-RcvOpt menu OFF

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

MENU	FrontCam-Rev	7Opt NAVI	MENU	FrontCam-Rev	vOpt
Config	FrontCam-RcvOrt	Os	Config	FrontCam-RcvOpt	
Option	SteeringWheelBtn	On	Option	SteeringWheelBtn	On
Image	UI DVB-T(DMB)	On	Image	UI DVB-T(DMB)	On
Screen	UI DVD	On	Screen	UI DVD	On
Parking	ScrChg-Climate	On	Parking	ScrChg-Climate	On



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

NAVI-RGB menu

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

First Menu	Second Menu	Third Menu	Action	
lmage	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 >>



<< Contrast >>



<< Saturation >>

OSD – Screen Menu

First Menu	Second Menu Third Description		Description
	Horizontal		Output screen horizontal movement
	Vertical		Output screen vertical movement
	Scale X Up		Reduce / increase output
Screen	Scale X Down		screen width
	Scale Y Up		Reduce / Increase Output
	Scale Y Down		Screen Height
	Reset		Screen menu all reset

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

OSD – Parking Menu

First Menu	Second Menu	Third Menu	Description	
	OPS Display	ON	Show OPS	
	OF'S Display	OFF	Do not show OPS	
	Warnings Lang		Set warning text language	
Parking	Horizontal		Moving a parking line horizontally	
	Vertical		Moving a parking line vertically	
	Transparency		Parking line transparency	
	Reset		Parking menu all reset	

OSD Parking – OPS Display On / Off

MENU	OPS Disp	REAR	
Config	OPS Display	On	Off
Option	Warnings Lang	English	
Image	Horizontal		50
Screen	Vertical	ISBN 151011	50
Parking	Reset	Execute	Cancel

MENU	OPS Display REA				
Config	OPS Display	On	Off		
Option	Warnings Lang	English			
Image	Horizontal		50		
Screen	Vertical	LEADERSNEED, COMPANY	50		
Parking	Reset	Execute	Cancel		



OPS-PDC ON Screen



OPS-PDC OFF Screen

* Even if you do not have a sensor, you can not see the parking sensor in the above figure even if you control the OSD board.

OSD Parking – Guide line On / Off



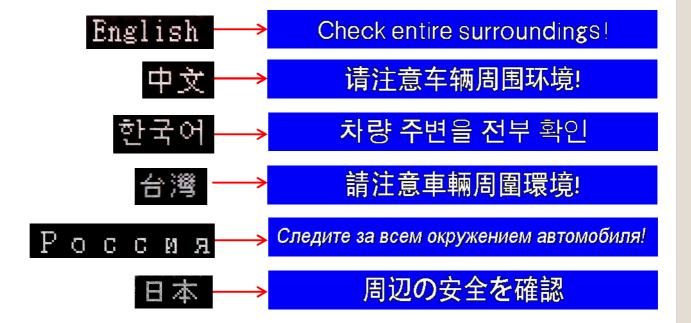
Parking Line ON Screen



Parking Line OFF Screen

OSD Parking – Change warning language

MENU	Parking / Warnings Lang				
Config	OPS Display	English			
Option	Line Display	中文			
Image	Warnings Lang	한국어			
Screen	Horizontal	台灣			
Parking	Vertical	Россия			



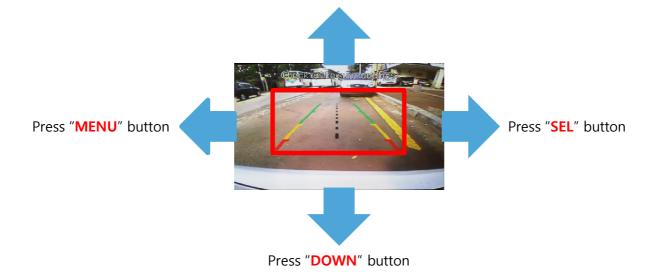
OSD Parking – Adjust position of parking guide line

MENU	Parkin	g REA	R
Config	OPS Display	Off	
Option	Line Display	On	
Image	Warnings Lang	English	
Screen	Horizontal	5	0
Parking	Vertical	5	0

Possible to adjust the position of parking guide line by Keypad in Horizontal / Vertical menu * Pressing this Horizontal / Vertical menu, The OSD screen automatically disappears. Please adjust from the parking line Screen.







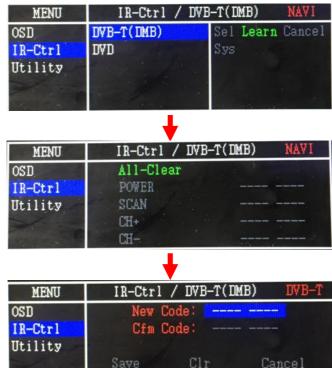
OSD – OSD Menu

First	Third		MENU	Horizonta	1	DVB-T	
Menu	Second Menu	Menu	Description	OSD	Horizontal		50
- Tienta				IR-Ctrl	Vertical		50
	Horizontal	value	OSD Menu Horizontal Shift	Utility	Display Time		10s
		, and e			Transparency	Realist.	30
	Vertical	value	OSD menu vertical Shift		Language	English	
	Vertical	value		MENU	Reset		DVB-T
		,	OSD Menu Display Time (in	OSD	Reset	Execute	Cancel
0.05	Display Time	value	seconds)	IR-Ctrl			
OSD				Utility			
	Transparency	value	OSD menu transparency				
	Language		OSD menu display language				
	Reset	Execute	Initialize OSD settings				

* IR learning function



* In order to work with the IR learning function, a separate IR cable is required.

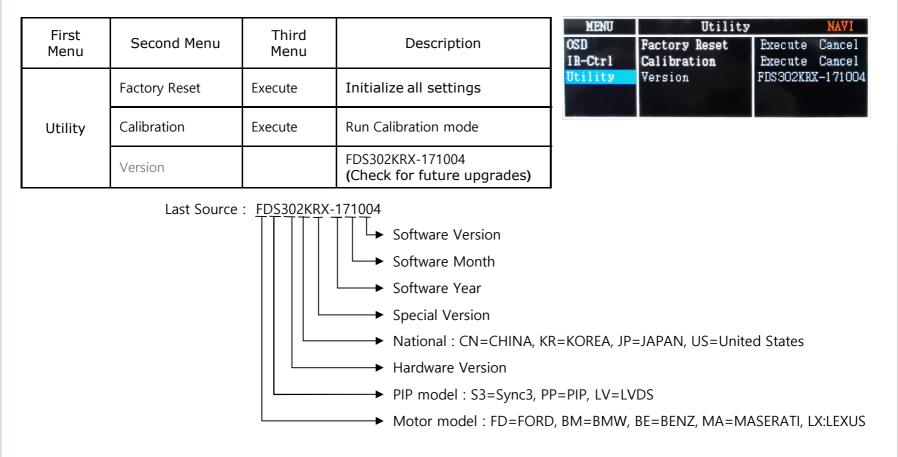


- 1. In DVB-T / DVD menu, select User in Sys (OSD list) or User (learned contents).
- 2. Select Learn from the OSD menu.

3. Before using IR learning function, select All-Clear to delete existing stored data.

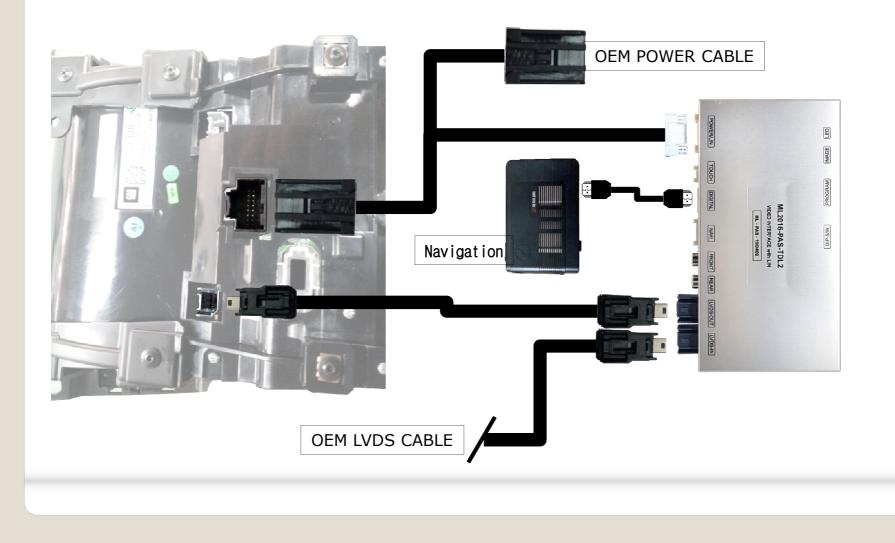
4. Press the remote control button to be used in each ICON once in New Code, press once again in Cfm Code to confirm it is the same and save it.

OSD Utility

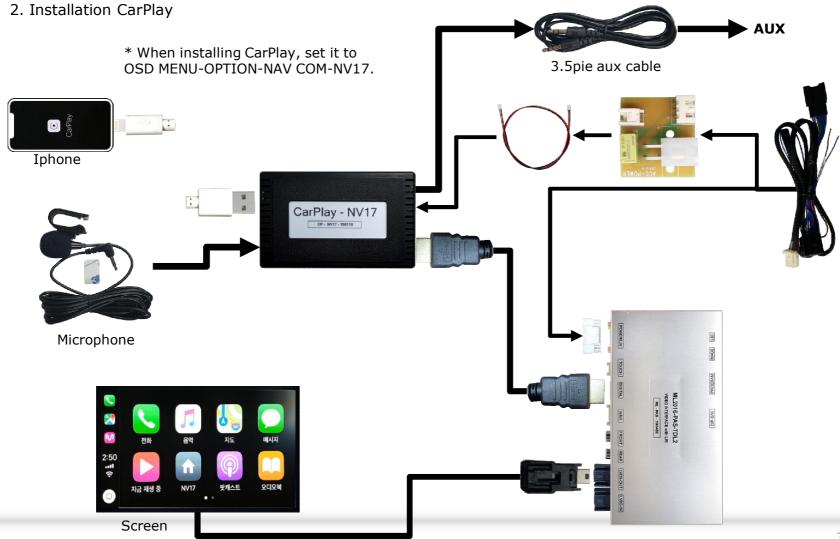


11. Install Manual

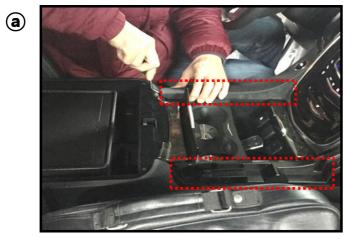
1. Installation LVDS connection



11. Install Manual



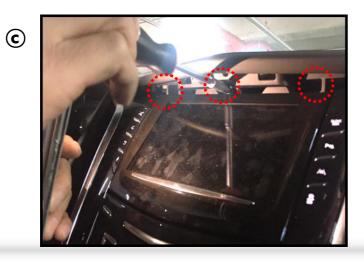
11. Install Manual



Back Cover 탈착

b





12. Q & A

- 1. Check the LED status first when interface failure..
- If there is no abnormality after the power is applied, the green LED flashes in units of 1 second.
- If the red LED flashes for 1 second, there is no.
- If the red LED is on continuously, the interface itself is bad.
- If nothing turns on, check that the power and CAN signals are properly connected
- 2. Q : When the screen turns black
 - A : LVDS cable itself is bad or bad contact.
- 3. If you find any symptoms with these symptoms, please contact your distributor