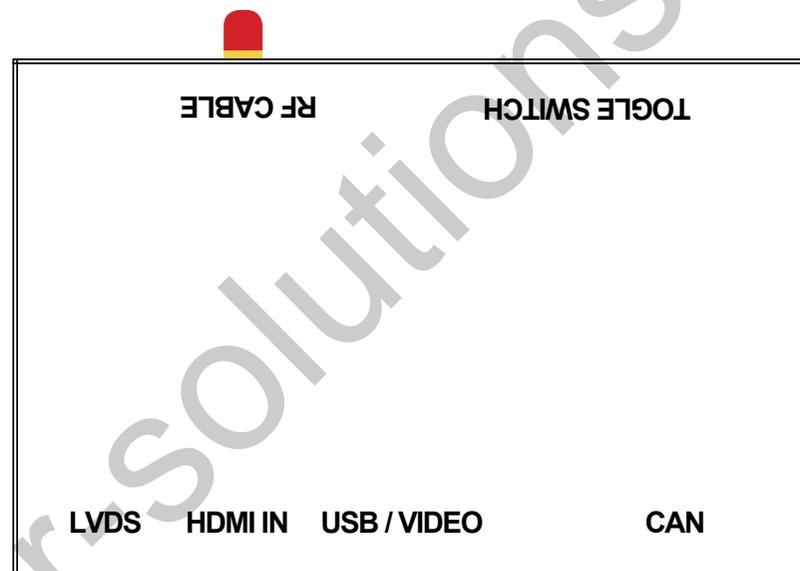


# Instruction Manual

 Android Auto
  Apple Car Play



SDK Version	25.0.0.5.6.0.0.0
MCU Version	v2.0.1.9z.gp.l
Manual Version	Rev. 1.2
Language	English

Release Date: 2019 – 11 - 20

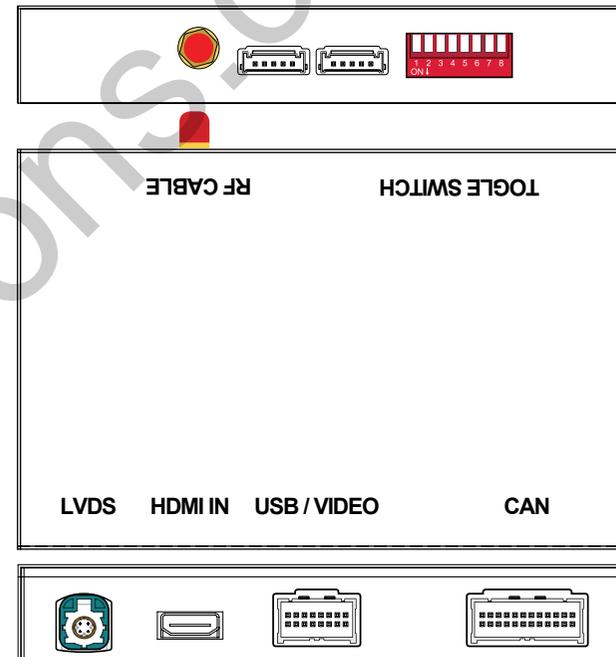
# Main Specifications

For Siri function perfect performance, we use the Car original Mic, if you Audi car is no Mic, there will can not use the siri (Andriod Auto is "OK Google") function

The CarPlay and Android Auto sound source is pass by the Aux in sound path, but when you use the Android Auto for a call ,Please connect the Car BT first.

For safety consideration, before Install the Carplay active adapter, please make sure the Power can cable pin is same the original car cable, if not ,do not install.

<b>Input Voltage</b>	12~16V DC
<b>Rated Current</b>	2A
<b>Rated Power</b>	24W
<b>Material</b>	Housing aluminum
<b>Connection</b>	Wireless , USB
<b>Control</b>	Original car knob control, voice control
<b>Working Temperature</b>	-20 ~ 80 degree



# Components



Screen Cable



AV,USB Cable



ANTENNA

**Important !!**  
**Option Parts** (It must be checked Main harness, GVIF type)



Power Cable



High Type Harness



New Type Harness



OLD Type Harness



LVDS Cable



OLD Type GVIF



NEW Type GVIF

**Important !!**  
**Option Parts** (It must be checked Main harness, GVIF type)

Package  
**OLD Type**



OEM Radio Unit Harness #1



Screen Cable



**OLD Type** GVIF

Car Model	Years	Screen Size	Main Harness Type	GVIF type
CT (A10)	2015 ~	7 inch	OLD Type	OLD GVIF Type
IS (XE30)	2013	7 inch	OLD Type	OLD GVIF Type

Package  
**New Type**



OEM Radio Unit Harness #1



Screen Cable



**NEW Type** GVIF

Car Model	Years	Screen Size	Main Harness Type	GVIF type
ES (XZ10) LS (XF50)	2018 ~	8 inch, <b>12 inch</b>	New Type	<b>New GVIF Type</b>
NX (AZ10) UX (ZA10)	2018 ~	8 inch, <b>10 inch</b>	New Type	<b>New GVIF Type</b>

**Important !!**  
**Option Parts (It must be checked Main harness, GVIF type)**

**Package**  
**High Type**



OEM Radio Unit Harness #1



Screen Cable



OLD Type GVIF

Car Model	Years	Screen Size	Main Harness Type	GVIF type
ES (XV60)	2013 ~ 2017	8 inch	High Type	OLD GVIF Type
IS (XE30)	2014 ~ 2016	7 inch	High Type	OLD GVIF Type
RX (AL20)	2016 ~	8 inch , 12 inch	High Type	OLD GVIF Type
GS (L10)	2012 ~	8 inch, 12 inch	High Type	OLD GVIF Type
CT200 (A10)	2011 ~	7 inch	High Type	OLD GVIF Type
LS (XF40)	2012 ~ 2017	12 inch	High Type	OLD GVIF Type
LX570 (J200)	2016 ~	12 inch	High Type	OLD GVIF Type
NX (AZ10)	2015 ~ 2017	7 inch	High Type	OLD GVIF Type

**Package**  
**High Type**  
**New GVIF Type**



OEM Radio Unit Harness #1



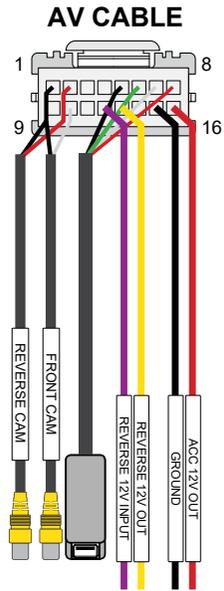
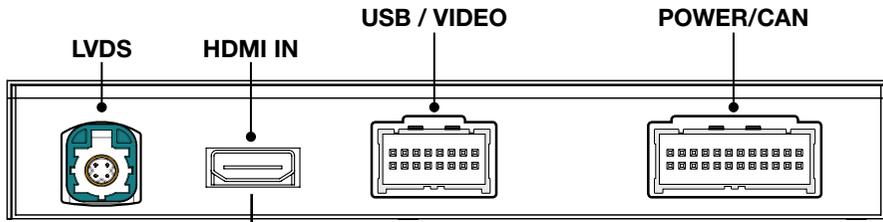
Screen Cable



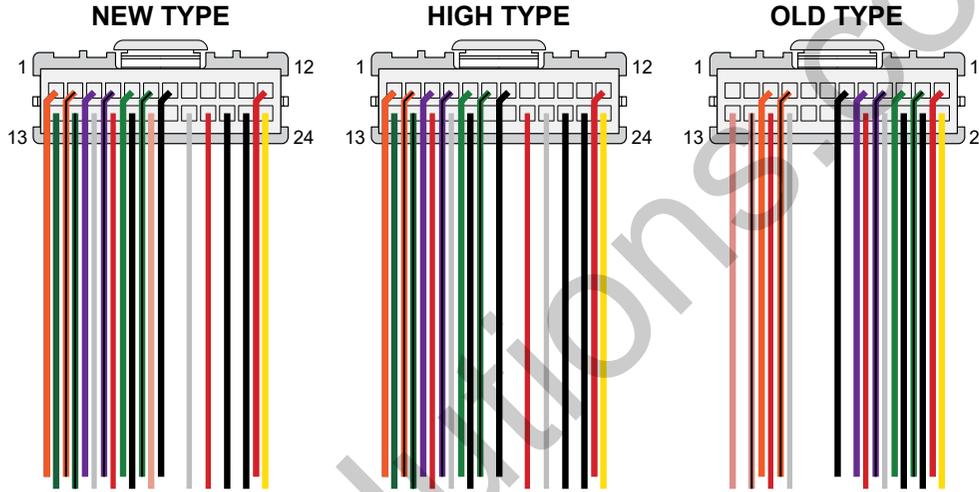
NEW Type GVIF

Car Model	Years	Screen Size	Main Harness Type	GVIF type
IS (XE30)	2017 ~	10 inch	High Type	New GVIF Type

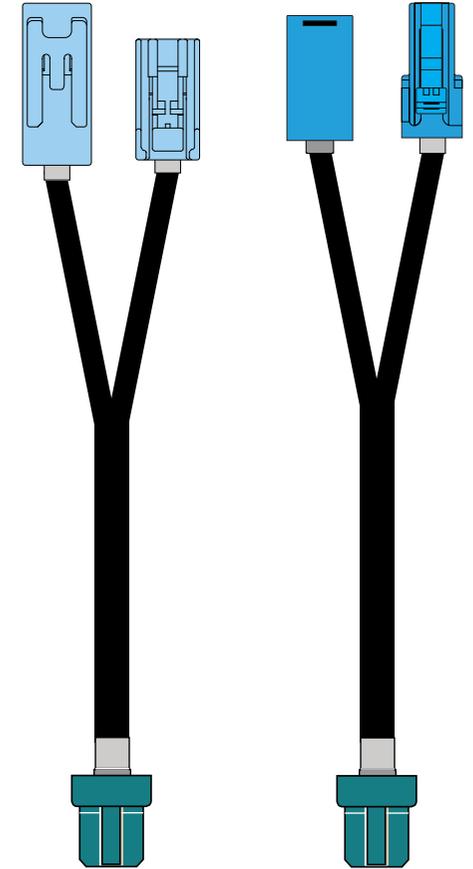
# Body Connector specifications



Supports Only 720P



OLD GVIF TYPE      NEW GVIF TYPE



AV CABLE			
1	CVBS_GROUND	9	
2	REVERSE_CAM_VIDEO_INPUT	10	FRONT_CAM_VIDEO_INPUT
3		11	
4	GROUND_SHIELD	12	REVERSE_12V_INPUT
5	USB_GND	13	REAR_12V_POWER_OUT
6	DATA +	14	
7	DATA -	15	GROUND
8	5V POWER	16	12V(ACC)_OUT

POWER / CAN			
1	CAN3_LOW	13	AD1
2	CAN3_HIGH	14	AD2
3	CAN2_LOW	15	MIC_IN_P
4	CAN2_HIGH	16	MIC_IN_N
5	CAN1_LOW	17	AUDIO_GND
6	CAN1_HIGH	18	AUX_DETECT
7	GROUND	19	MIC_IN_P_CAR
8	IEBUS_OUT +	20	AUDIO_OUT_L
9	IEBUS_OUT -	21	AUDIO_OUT_R
10	IEBUS_IN +	22	AUDIO_GND
11	IEBUS_IN -	23	GROUND
12	ACC	24	B+

# Car Compatibility Chart

Car Models	Production Year	Specific Models
IS (XE30)	2013 ~ 2016	7 inch
IS (XE30)	2017 ~	10 inch
CT (A10)	2015 ~	7 inch
CT200 (A10)	2011 ~	7 inch
NX (AZ10)	2015 ~ 2018	7 inch, 10inch
UX (ZA10)	2018 ~	7inch, 10 inch
RX (AL20)	2017 ~	8inch, 12 inch
ES (XV60)	2013 ~ 2017	8 inch
ES (XZ10)	2018 ~	8 inch, 12 inch
GS (L10)	2012 ~	8 inch, 12 inch
LS (XF40)	2012 ~ 2017	12 inch
LS (XF50)	2018 ~	12 inch
LX570 (J200)	2016 ~	12 inch



Lexus IS(XE30)



Lexus CT(A10)



Lexus ES(XV60)



Lexus GS(L10)



Lexus RX(AL20)



Lexus ES(XZ10)



Lexus UX(ZA10)



Lexus NX(AZ10)

## ※ Not Supports (It can not be installed)

Some of the 12-inch models. If the car has local navigator model (PIP)



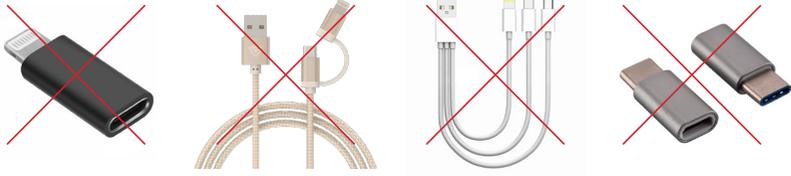
Korea Local Map



Japan Local Map

# Full Installation Diagram

## <NEW TYPE>



We recommend using for each phone manufacturer genuine cable Please. Never using "Adapter Type and Multi cable"

Apple Car Play  
Apple i-phone

Android Auto  
Google Android



### AV Cable



REVERSE CAM



FRONT CAM



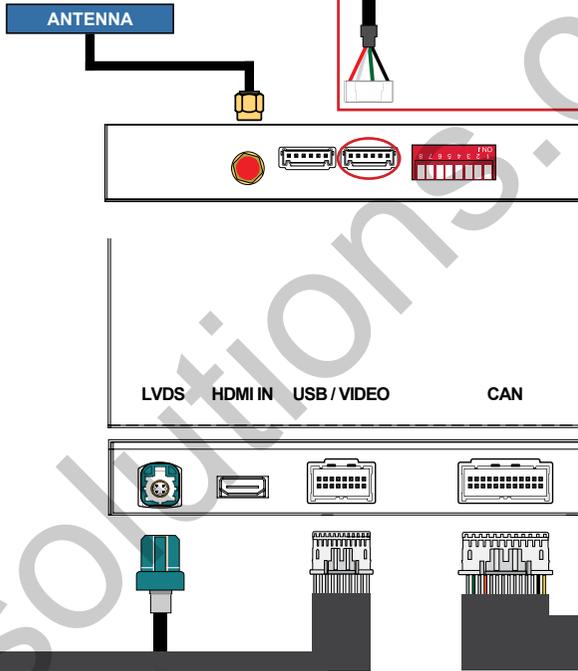
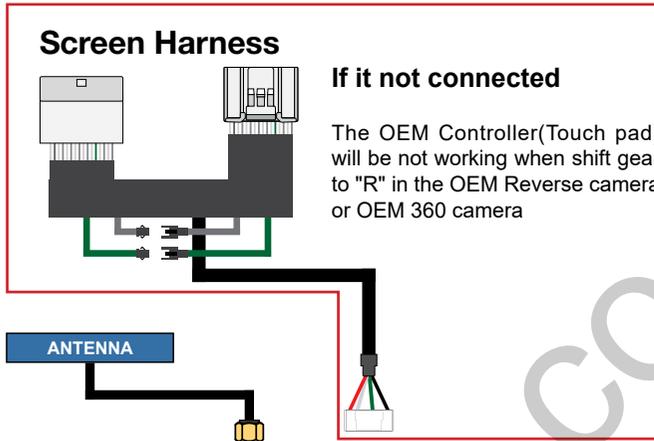
REVERSE CAM



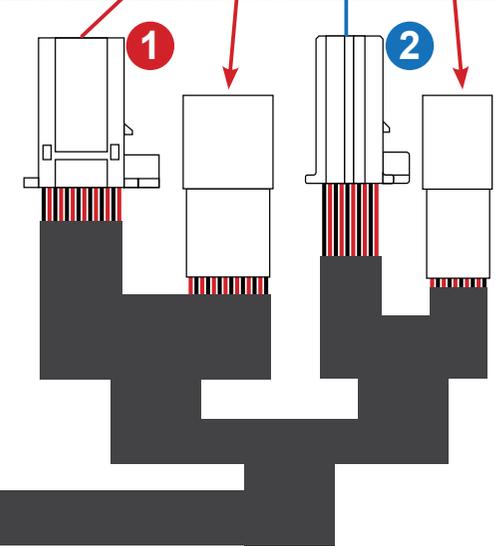
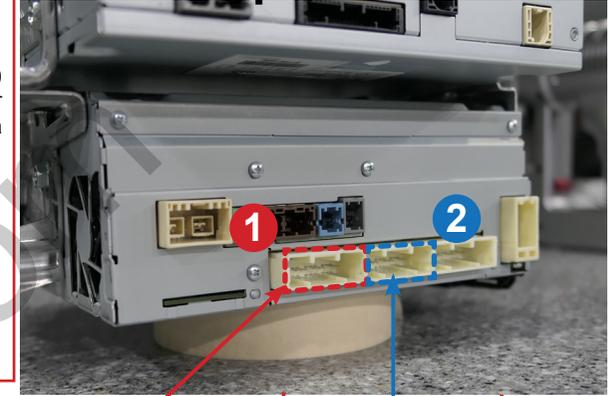
FRONT CAM

- GROUND Ground
- REVERSE 12V IN Reverse Detect 12V IN
- 12V ACC OUT 12V Power **ACC OUT**
- 12V OUT REVERSE CAM 12V Power **OUT**  
For Reverse Cam Power

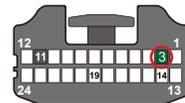
support@car-solutions.com



## NEW Type Head Unit

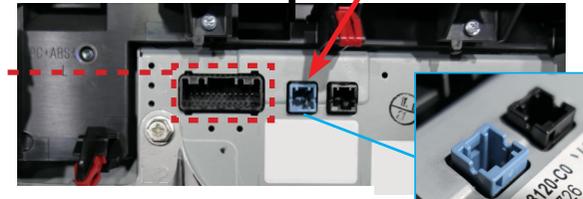
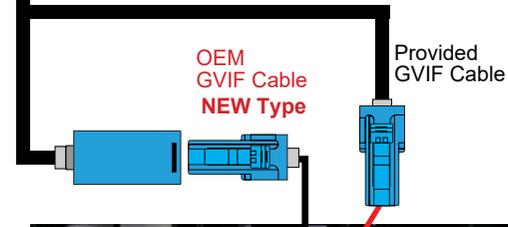


### Screen Harness



- Pin # 11 = GRAY  
Please. Disconnect When The carplay screen will be blinked
- Pin # 3 = GREEN

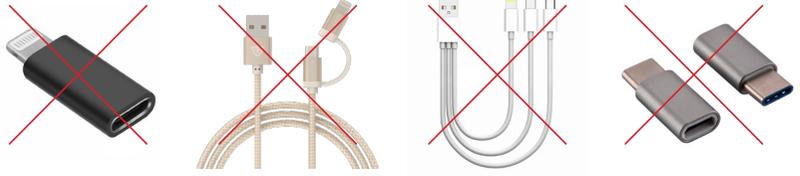
- Pin # 14 = New ES300H(XZ10)**  
Please Disconnect. When installation Around view cam OR External Reverse cam.  
If it not disconnect. The interface can not change screen to
- Pin # 19 = Only Lexus UX <ZA10>**  
Please. Disconnect When The carplay screen will be blinked



car-solutions.com

# Full Installation Diagram

## <HIGH TYPE>



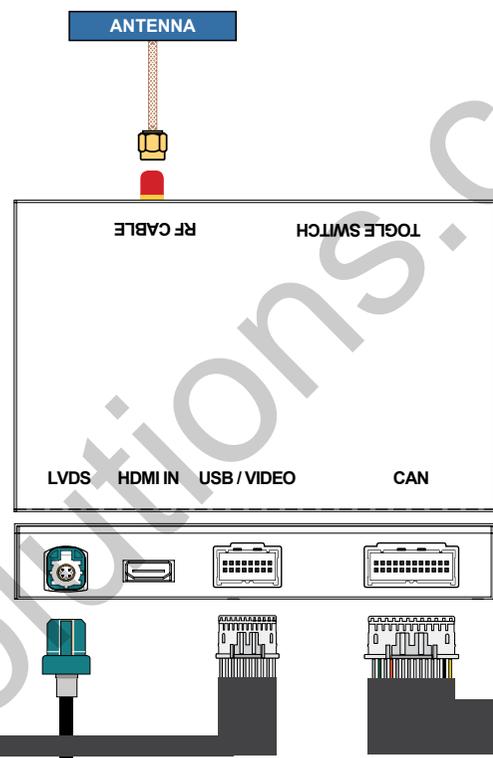
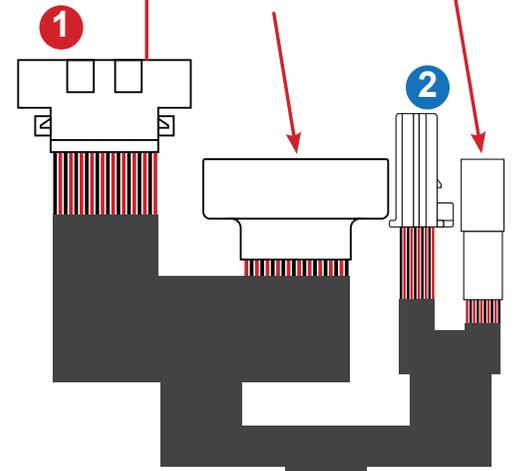
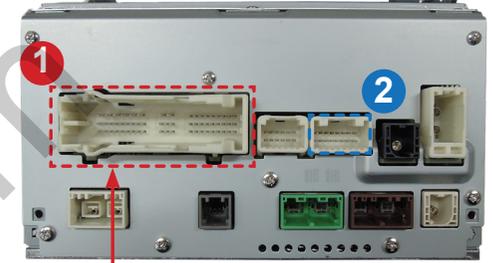
We recommend using for each phone manufacturer genuine cable Please. Never using "Adapter Type and Multi cable"

Apple Car Play  
Apple i-phone

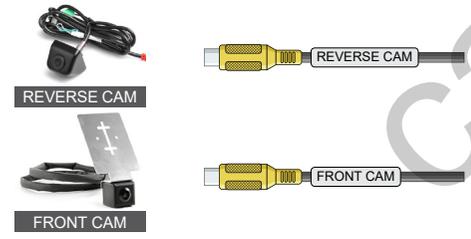
Android Auto  
Gogle Android



### High Type Head Unit



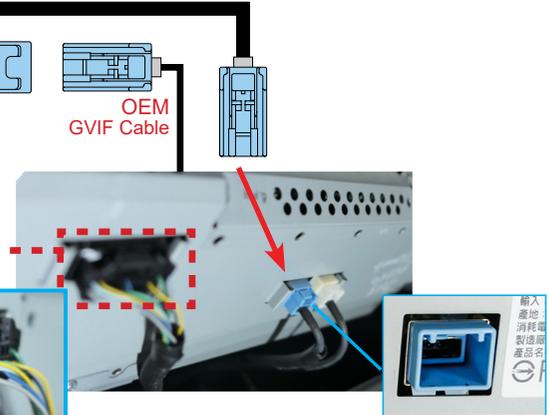
### AV Cable



- GROUND Ground
- REVERSE 12V IN Reverse Detect 12V IN
- 12V ACC OUT 12V Power **ACC OUT**
- 12V OUT REVERSE CAM 12V Power **OUT** For Reverse Cam Power

### Screen Harness

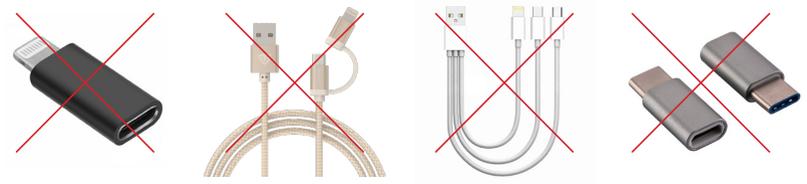
- 
- Pin # 11 = GRAY  
Please. Disconnect When The carplay screen will be blinked
  - Pin # 3 = GREEN  
Please. Disconnect When The carplay screen will be blinked
  - Pin # 14 = New ES300H(XZ10)  
Please Disconnect. When installation Around view cam OR External Reverse cam.  
If it not disconnect. The interface can not change screen to
  - Pin # 19 = Only Lexus UX <ZA10>  
Please. Disconnect When The carplay screen will be blinked



Old Type GVIF High Type GVIF  
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# Full Installation Diagram

## <OLD Type>



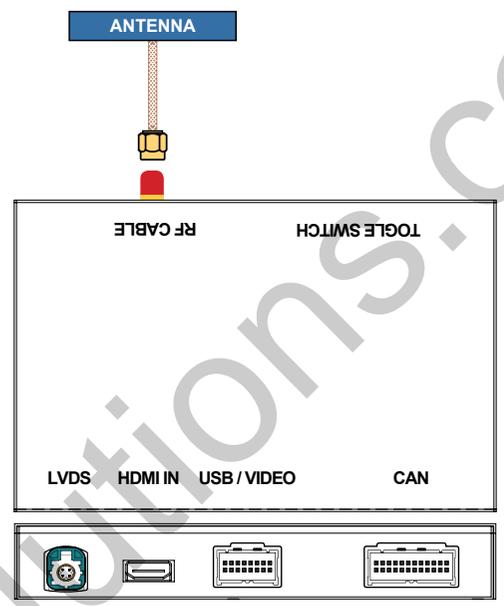
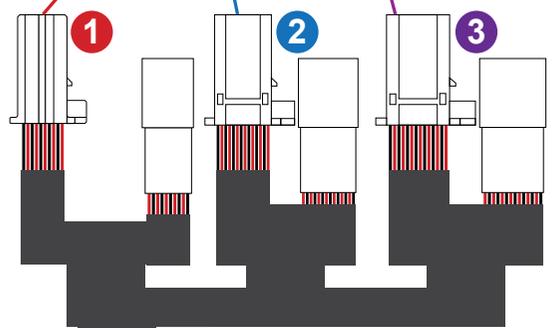
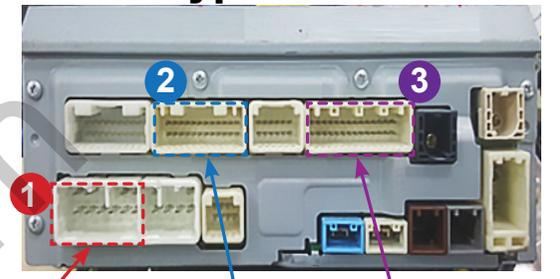
We recommend using for each phone manufacturer genuine cable  
Please. Never using "Adapter Type and Multi cable"

Apple Car Play  
Apple i-Phone

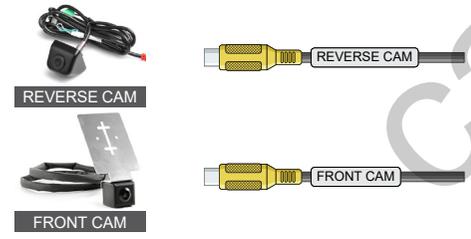
Android Auto  
Gogle Android



### OLD Type Head Unit

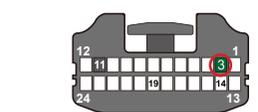


### AV Cable

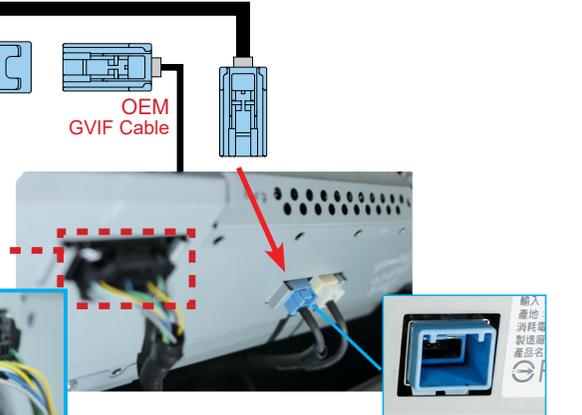


- GROUND
- REVERSE 12V IN
- 12V ACC OUT
- 12V OUT REVERSE CAM

### Screen Harness



- Pin # 11 = GRAY  
Please. Disconnect When The carplay screen will be blinked
- Pin # 3 = GREEN
- Pin # 14 = New ES300H(XZ10)  
Please Disconnect. When installation Around view cam OR External Reverse cam.  
If it not disconnect. The interface can not change screen to
- Pin # 19 = Only Lexus UX <ZA10>  
Please. Disconnect When The carplay screen will be blinked



Old Type GVIF High Type GVIF  
car-solutions.com

# DIP Switch Settings



PIN	ON (▼)	OFF(▲)
1	Controller Type	
2	Controller Type	
3	Selection of car mode	
4		
5	Controller Type	
6	<b>Not Used Default (OFF)</b>	
7	NO. bias circuit with original microphone	YES. bias circuit with original microphone
8	External Microphone	Original(OEM) Microphone

No.3	No.4	Screen Size
OFF(▲)	OFF(▲)	7 inch, 8 inch
ON (▼)	OFF(▲)	12.3 inch
OFF(▲)	ON (▼)	10.3inch ,12.3inch <Include clock icon>
ON (▼)	ON (▼)	7 inch OLD Version "IS(XE30)"

Knob Type			Mouse Controller			Touch PAD Type		
No.1	No.2	No.5	No.1	No.2	No.5	No.1	No.2	No.5
ON (▼)	OFF(▲)	ON (▼)	ON (▼)	ON (▼)	ON (▼)	ON (▼)	ON (▼)	OFF(▲)

## Select Car Model

No.3	No.4	Car Model	Screen Size	Year	
OFF(▲)	OFF(▲)	UX (ZA10)	7 inch 8 inch	2018 ~	
		LS (XF50)			
		ES (XZ10)			
		NX (AZ10)	7 inch, 8 inch		2015 ~ 2017
		IS (XE30)	10 inch		2017 ~
OFF(▲)	OFF(▲)	ES (XV60)	7 inch	2013 ~ 2017	
		ON (▼)	ON (▼)	CT200 (A10)	7 inch
OFF(▲)	ON (▼)	IS (XE30)	7 inch	2013 ~ 2016	
		UX (ZA10)	10 inch 12 inch	2018 ~	
		LS (XF50)			
		ES (XZ10)			
NX (AZ10)					
ON (▼)	OFF(▲)	RX (AL20)	12 inch	2016 ~	
		GS (L10)	12 inch	2016 ~	

# Activation by original buttons



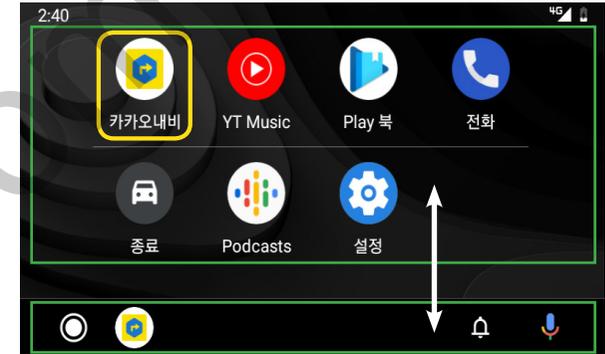
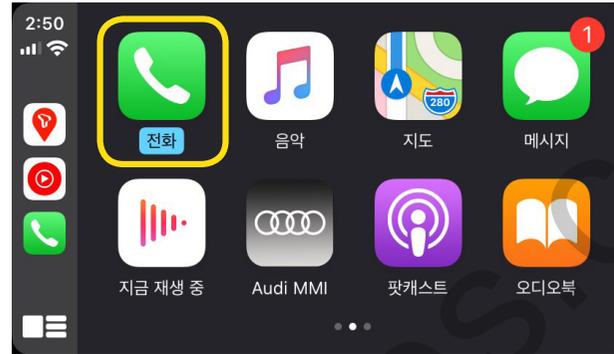
2015 Lexus ES (XV60)



2019 New Lexus ES (XZ10)



2015 CT200 (A10)



Button	Function	Operation	Remarks
1 Manu	Changing Modes	Press the button 2 seconds	Order : OEM → Car Play
		Press the button short time	Return to the OEM mode in any modes.
3 Mouse Touch pad Dial	Move the pointer	Move the Mouse	Apple Car Play Function
		Turn the dial	Google Android Auto
3 Mouse Touch pad Dial	"Siri"	Press the button 3 seconds	Apple Car Play Function
2 Back	Go back	Press the button short time	Apple Car Play Function
	Restart	Press the button 10 seconds	Google Android Auto
			You can use this function when you get in trouble

# Android User Interface (Main Page)

## Airplay (Apple i-phone mirroring) <WIFI>



It is connected by wifi signal

- Turn on the wifi on the i-phone
- Select Carplayxxxxxx (The wifi name might be deffrent) and connect
- Select "Air play" in the "i-Phone Control Center"
- The smart phone screen will be copy on the car screen

## WireAuto (Android Auto) <Cable>



## Apple Carplay Wireless,Cable



## WirelessDev Setting (Bluetooth)

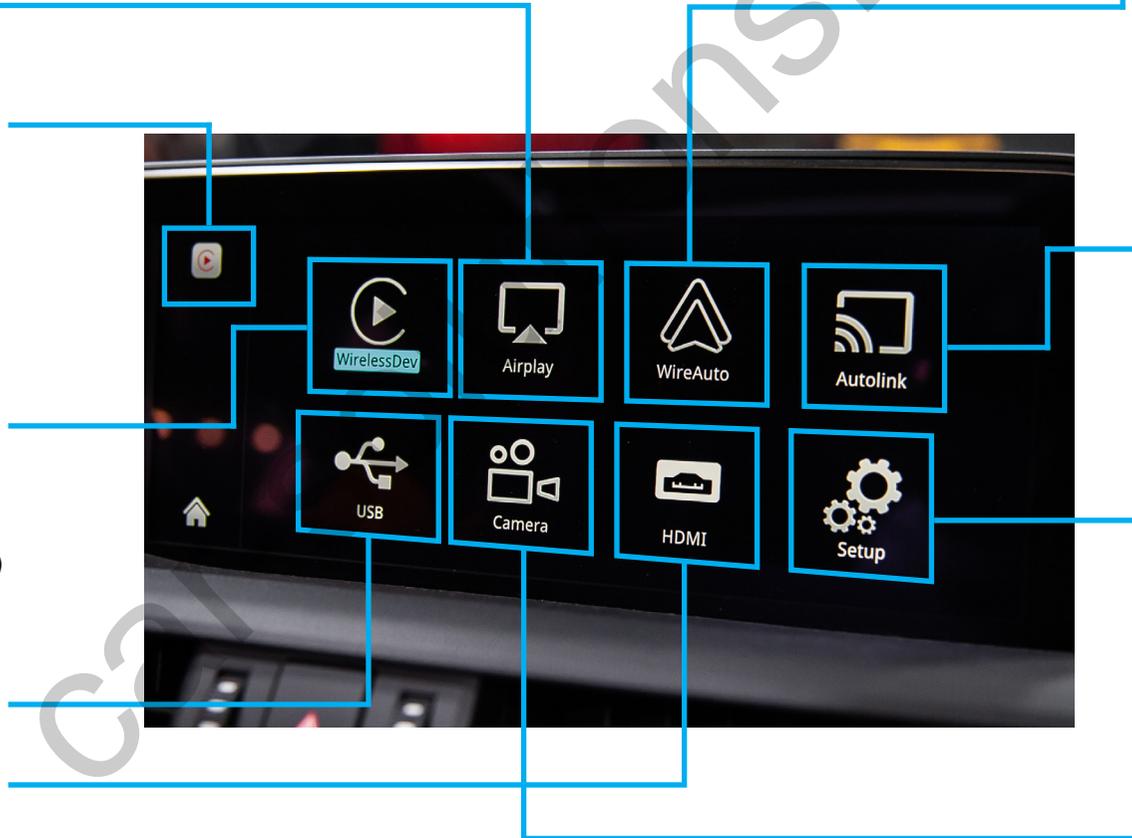


## Wireless Carplay Settings (Bluetooth)

※ Only (Apple i-Phone)

## USB Player (Media,Music)

## HDMI IN PUT



## Android Mirroring <Cable>



## Setup <Please Check Next Page>

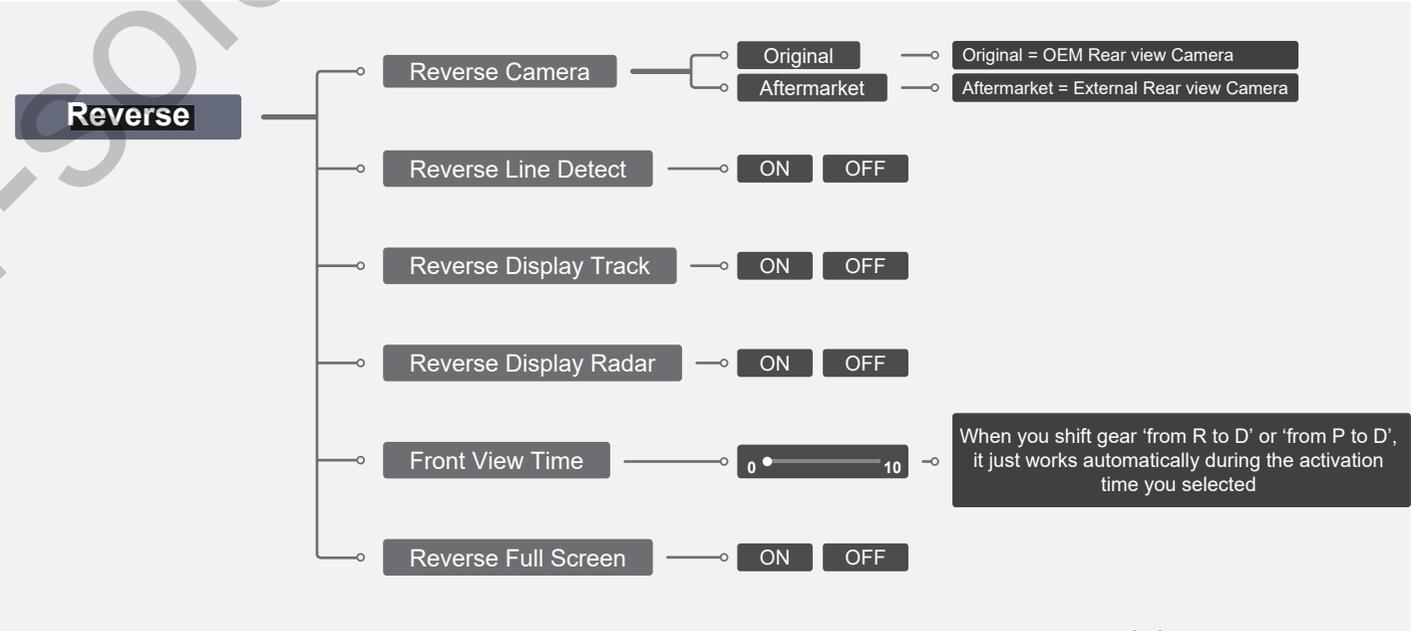
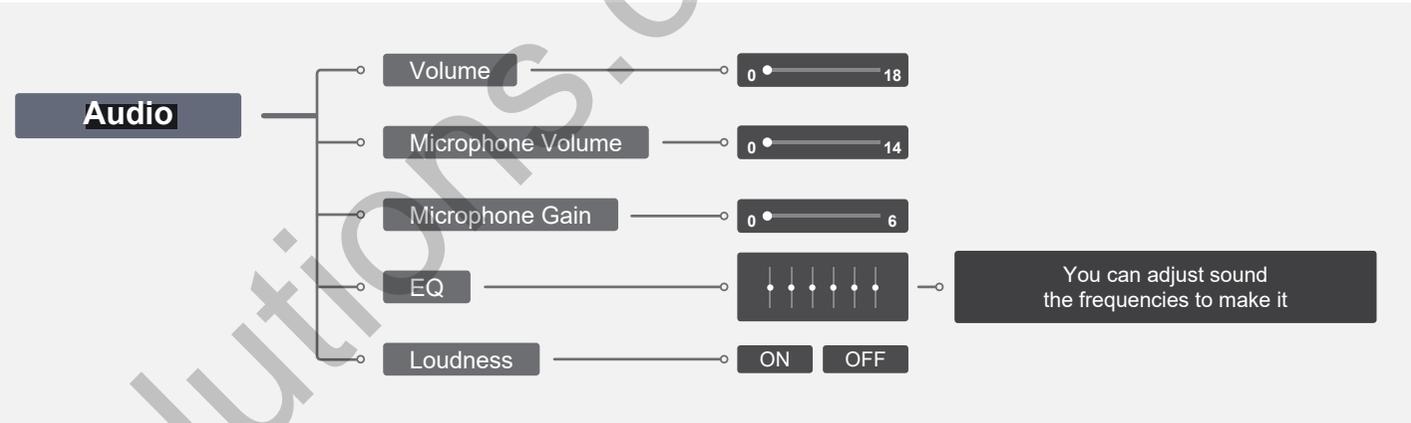


## Front Camera



When it installed front view camera  
The user can check front view camera image with it  
car-solutions.com

# Settings <System>



# Settings <System>



**Right Drive**  ON  OFF ON = Left Steering Wheel  
OFF = Right Steering Wheel

**Camera Mirror**  ON  OFF

**Switch L/R Key to D/U Key**  ON  OFF

**Wheel key swap**  No swap  Swap  Invalid

**Carplay Left Scrap**  0  10

**Carplay Left Scrap**  0  10

**Software Update**

- System Update**
  - Copy the update file "ISPBOOOT.BIN" to the root directory of USB storage.
  - Plug in the USB storage on the carplay box USB port
  - Select the "System update" or Press the BACK button 5sec "It will be restart and start update automatically"
  - Please. Never power off the box on updating**
- MCU Update**
  - Copy the update file "Upgrade.bin" to the root directory of USB storage.
  - Plug in the USB storage on the carplay box USB port
  - Select the "MCU update"
  - Please. Never power off the box on updating**
- Logo Image Update**

**Logo Image file format**

File Name : "no logo.bmp"      Size : 800 x 480

  - Copy the update file "no logo.bmp" to the root directory of USB storage.
  - Plug in the USB storage on the carplay box USB port
- Carplay icon Update**

**Carplay icon Image file format**

File Name : "no cp\_back.png"      Size : 250 x 250

  - Copy the update file "no cp\_back.png" to the root directory of USB storage.
  - Plug in the USB storage on the carplay box USB port

**Download Update File**

<http://indiwork.co.kr/manual-carplayandroid-auto/>

support@car-solutions.com car-solutions.com