

TOYOTA CAMRY2018

Manual

- MODEL : TC2018-180413

- DATE : 2019.04.16

0. Serviceable model



TOYOTA Camry (2018)
Panasonic 8" Model
- Israel, Russia

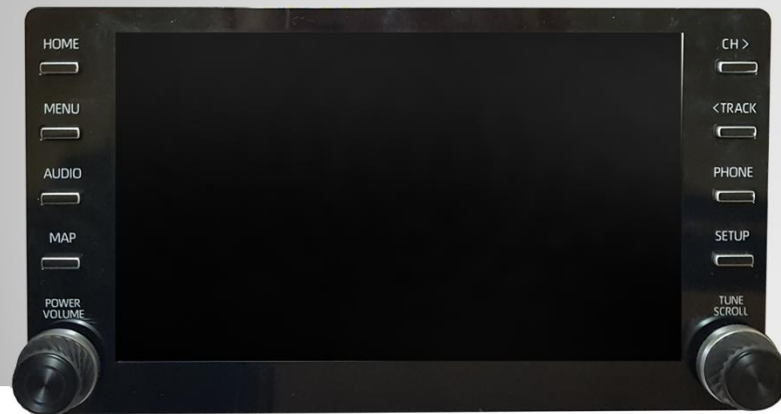


TOYOTA Camry (2018)
Pioneer 8" Model
- Republic of Korea, Taiwan, UAE, USA

0. Serviceable model



TOYOTA Camry (2018)
Fujitsuten 7" Model
- Israel, Australia



TOYOTA RAV4 (2019)
RAV4 7" Model
- Israel

0. Serviceable model



TOYOTA Mirai (2019)

Panasonic Model

- USA
- Screen inch. Unknown.
- Interface Install, Unknown.



TOYOTA avalon (2019)

- Republic of Korea
- Screen inch. Unknown.
- Interface Install, Unknown.

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1. Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Digital RGB Input (Navigation System source)
- 1 x Analog RGB Input (Navigation System source)
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 1 x CVBS(FRONT CAMERA) Input. (Front camera source)

2. Output Spec.

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

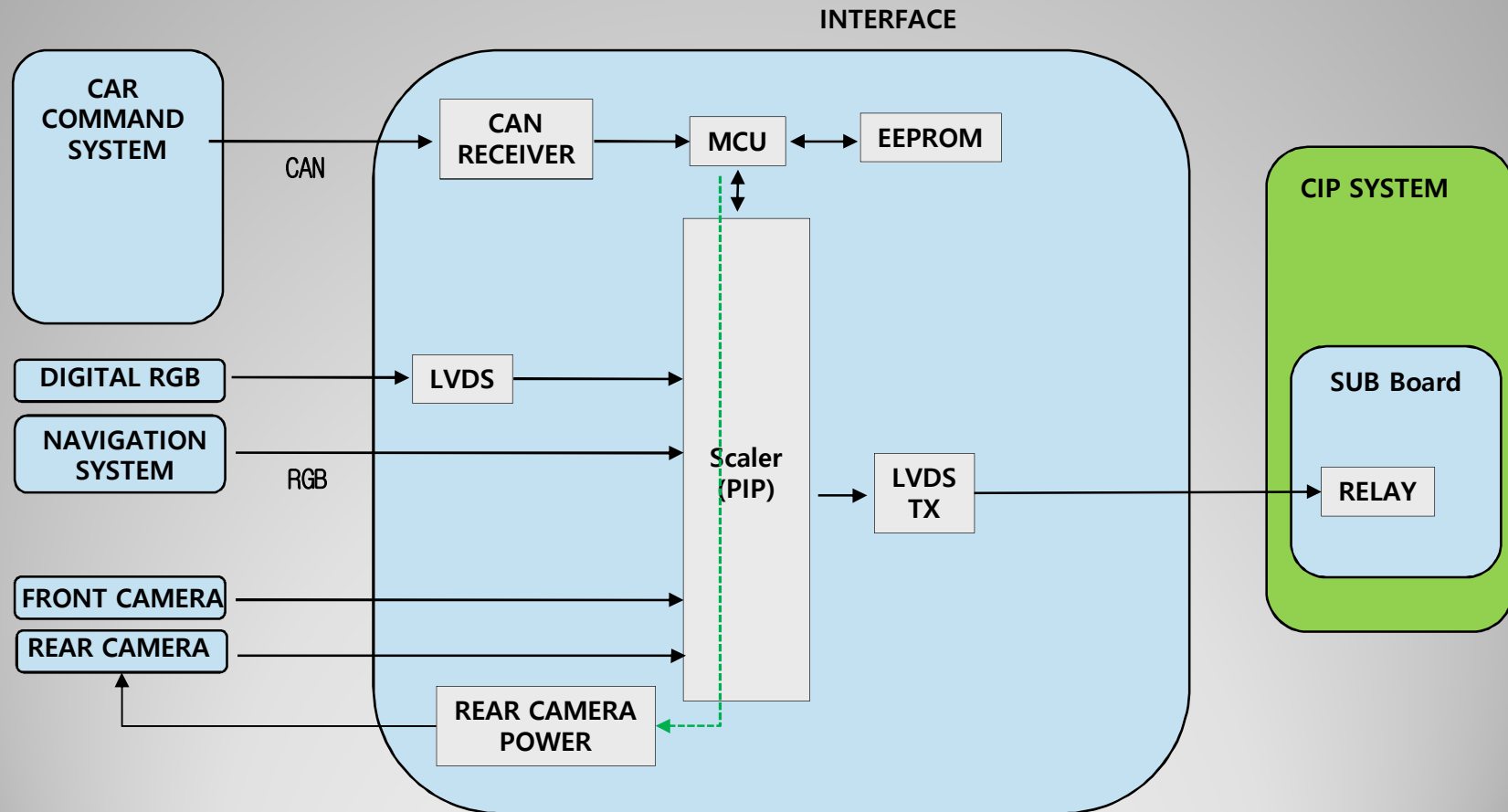
3. Power Spec.

- 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

2. Block Diagram



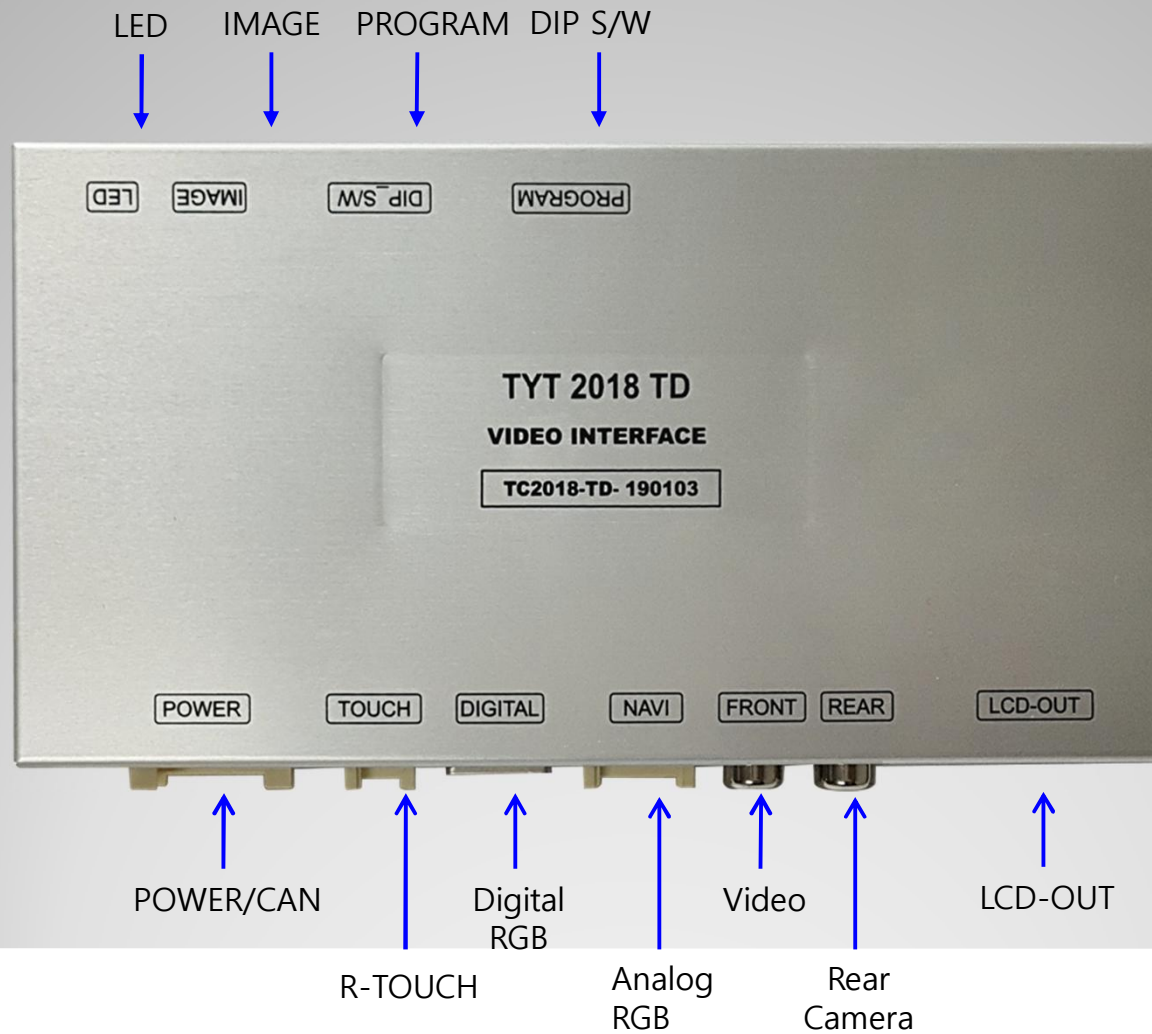
3. Dimension

159mm * 83mm * 22mm

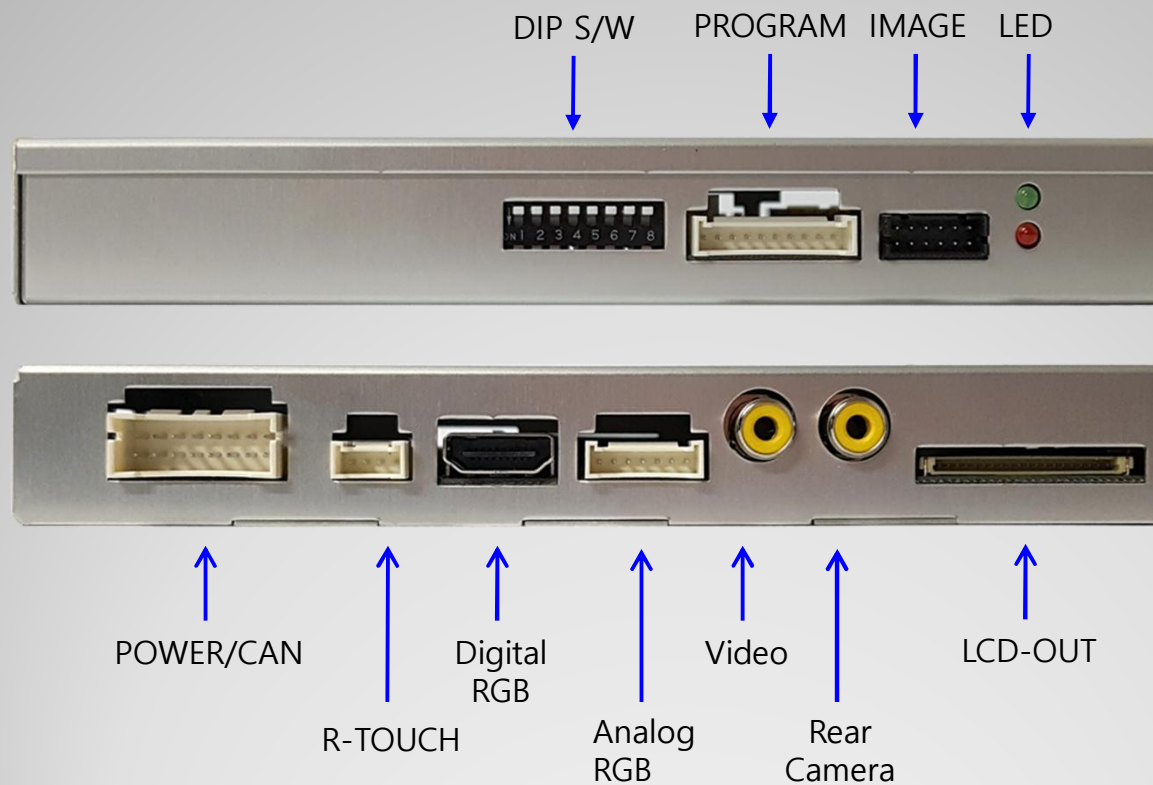


* This can change under manufacturer's circumstance

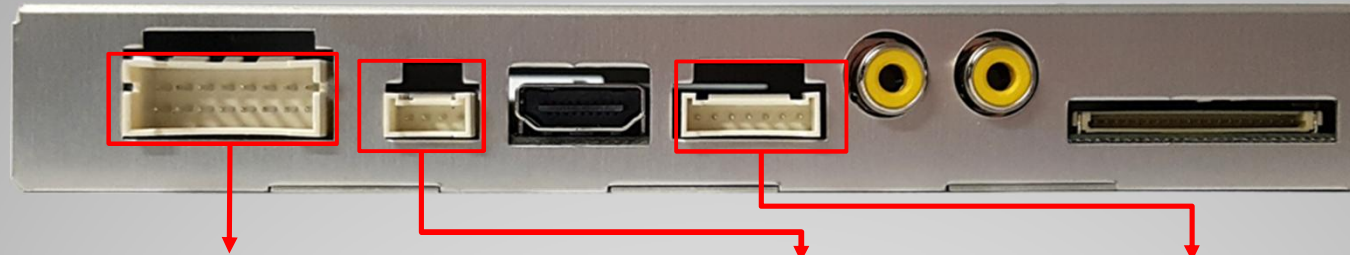
4. External Appearance



4. External Appearance



5. Connector Pin Assignment

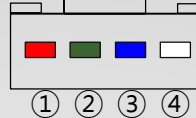


*POWER Connect



- | | |
|---------------------|---------------------|
| 1. ACC (Red) | 9. KEY (Pink) |
| 2. N.C | 10. N.C |
| 3. Rear-DET (Brown) | 11. ACC (Red) |
| 4. Front-DET (Blue) | 12. Rear-VCC (Red) |
| 5. N.C | 13. Front-VCC (Red) |
| 6. N.C | 14. Mode (Green) |
| 7. CAN-L (Green) | 15. GND (Black) |
| 8. CAN-H (Orange) | 16. GND (Black) |

*Touch Connect



- ① Y-
- ② X-
- ③ Y+
- ④ X+

*NAVI Connect



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

6. Product Composition

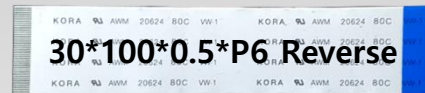
* TOYOTA Camry (2018) Panasonic 8" - General Sales



Interface 1 EA



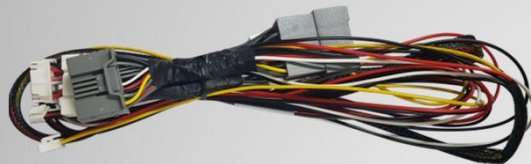
LVDS FFC Cable 2 EA



LVDS Cable (800mm) 1 EA



SUB Board (REV00) 1 EA



Power Cable 1 EA



RGB NAVI Cable 1 EA



Touch Converter Cable(KD-900) 1 EA



OSD Board 1 EA

6. Product Composition

* TOYOTA Camry (2018) Pioneer 8" - General Sales



Interface 1 EA



LVDS FFC Cable 2 EA



Power Cable 1 EA



LVDS Cable (800mm) 1 EA



SUB Board (Rev02) 1 EA



RGB NAVI Cable 1 EA



Touch Converter Cable(KD-900) 1 EA



OSD Board 1 EA

6. Product Composition

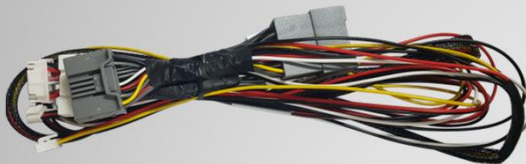
* TOYOTA Camry (2018) Fujitsuten 7" - General Sales



Interface 1 EA



LVDS FFC Cable 3 EA



Power Cable 1 EA



LVDS Cable (800mm) 1 EA



RGB NAVI Cable 1 EA



Touch Converter Cable(KD-900) 1 EA



bolt 2 EA



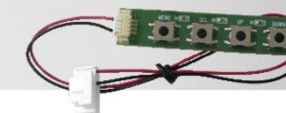
washer 2 EA



LVDS Extension Board 1 EA



SUB Board (REV02) 1 EA



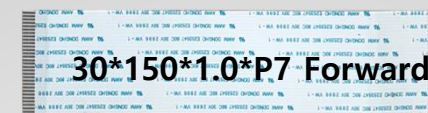
OSD Board 1 EA

6. Product Composition

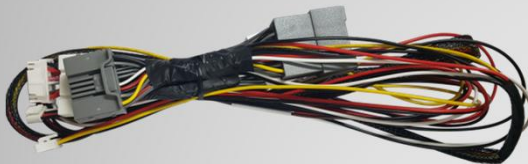
* TOYOTA Camry (2018) RAV4-7" - General Sales



Interface 1 EA



LVDS FFC Cable 3 EA



Power Cable 1 EA



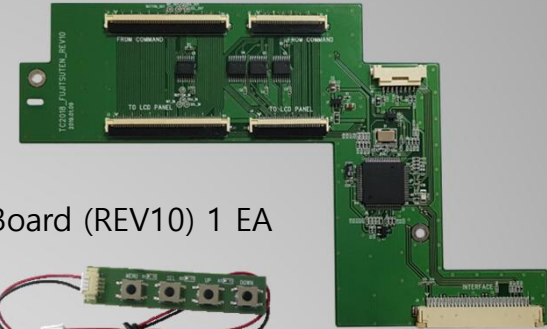
LVDS Cable (800mm) 1 EA



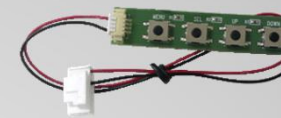
RGB NAVI Cable 1 EA



Touch Converter Cable(KD-900) 1 EA



SUB Board (REV10) 1 EA



OSD Board 1 EA



LVDS Extension Board 1 EA



bolt 2 EA



washer 2 EA

6. Product Composition

* TOYOTA Camry (2018) Panasonic 8" - CarPlay



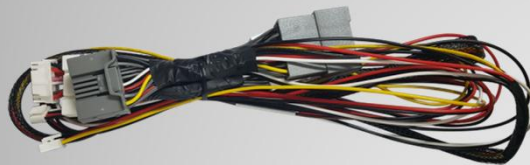
Interface 1 EA



LVDS FFC Cable 2 EA



Microphone 1 EA



Power Cable 1 EA



LVDS Cable (800mm) 1 EA



CarPlay 1 EA



TOYOTA_CAMRY2018-SUB(REV00) 1 EA



CarPlay_Roik_Power_Cable 1 EA



AUX Cable 1 EA

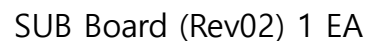
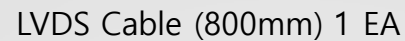
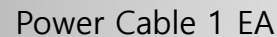
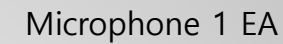


OSD Board 1 EA



HDMI Cable 1 EA

*** TOYOTA Camry (2018) Pioneer 8" - CarPlay**



6. Product Composition

* TOYOTA Camry (2018) Fujitsuten 7" – CarPlay



Interface 1 EA



LVDS FFC Cable 3 EA



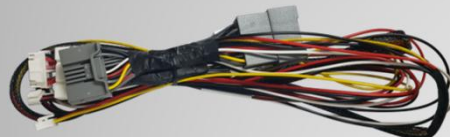
Microphone 1 EA



Volt 2 EA



CarPlay 1 EA



Power Cable 1 EA



LVDS Cable (800mm) 1 EA



LVDS-5-PAIR(Rev00) 1 EA



Plastic support 2 EA



TC2018_FUJITSUTEN(Rev02) 1 EA



CarPlay_Roik_Power_Cable 1 EA



AUX Cable 1 EA



OSD Board 1 EA



HDMI Cable 1 EA

6. Product Composition

* TOYOTA Camry (2018) RAV4- 7" – CarPlay



Interface 1 EA



LVDS FFC Cable 3 EA



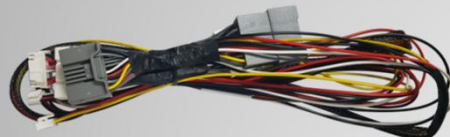
Microphone 1 EA



Volt 2 EA



CarPlay 1 EA



Power Cable 1 EA



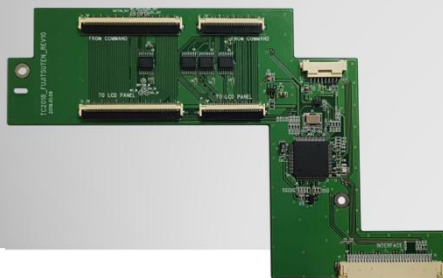
LVDS Cable (800mm) 1 EA



LVDS-5-PAIR(Rev00) 1 EA



Plastic support 2 EA



TC2018_FUJITSUTEN(Rev10) 1 EA



CarPlay_Roik_Power_Cable 1 EA



AUX Cable 1 EA



OSD Board 1 EA



HDMI Cable 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	DVB-T(AV1)	ON : Not Used OFF : Used
3	DVD(AV2)	ON : Not Used OFF : Used
4	N.C	
5	Streeing Button	ON : PRIUS OFF : CAMRY
6	CAR type SEL	Right Picture
7		
8		

* DIP S/W Example



CAMRY(2018) Panasonic 8"



CAMRY(2018) Pioneer 8"



CAMRY(2018) Fujitsuten 7"
RAV4(2019) Fujitsuten 7"

8. Mode Change



MENU	Button	NAVI
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	<input type="text"/> 0s
Screen	SteeringWheel Btn	Off
Parking	Button	HOME MAP ALL OFF

- To use the Steering button You must select the "HOME" or "MAP" button in the menu.
- To use both the "HOME" and "MAP" buttons, select all.
- Select "OFF" when not in use.



mode change

- Long press to switch to interface screen
- Short press to switch to OEM screen

※The screen is switched in order as the pictures below

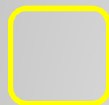


8. Mode Change



MENU	ScrChg-Btn	NAVI	
Config	ScrChg-Btn	On	Off
Option	NAVI COM	HMS	
Image	Reset	Execute	Cancel
Screen			
Parking			

* To use transient transitions "ON" must be selected in the above menu (SrcChg-Btn). Select "OFF" when not in use



Switch to OEM screen



Display OEM screen for 2 seconds and return



Display OEM screen for 4 seconds and return

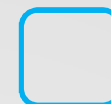
8. Mode Change

Steering Button Control



MENU	Button	NAVI
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	<input type="checkbox"/> Os
Screen	SteeringWheel Btn	On Off
Parking	Button	Off

* To use the Steering button You should select "ON" in the above menu. Select "OFF" when not in use



mode change

- Long press to switch to interface screen
- Short press to switch to OEM screen

※The screen is switched in order as the pictures below



9. Touch Control

Touch control - Calibration

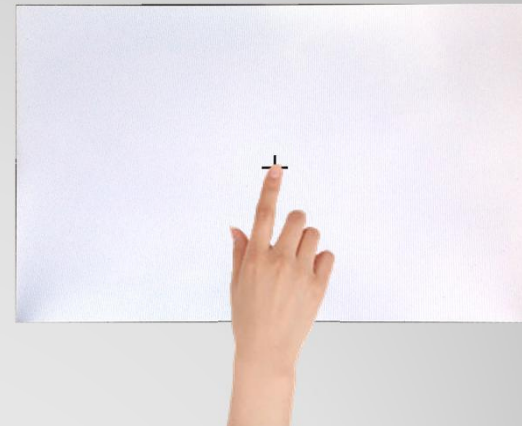
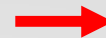


Press and hold for more than 11 seconds on NAVI, DVB-T, DVD screen.
(Note that it only works the first time after switching screens)

OR

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

OSD menu -> Utility -> Calibration



+ Touch according to the shape coordinates.

9. Touch Control

DVB-T/DVD Control

DVB-T

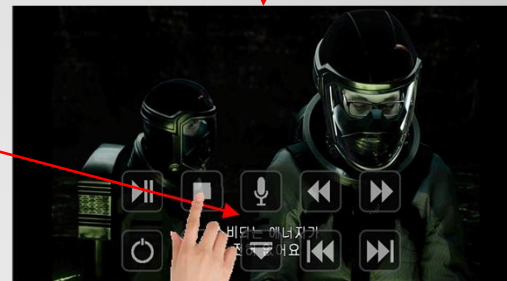


Press Touch(Anywhere)



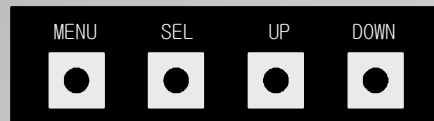
Press Icon

DVD



10. OSD(On Screen Display) 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	
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

10. OSD(On Screen Display) Control

OSD Option

First Menu	Second Menu	Third Menu	Description
Option	RearCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	RearCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	RearCam-Det	CAN	Detected by CAN
		WIRE	Detected by Rear-Det Wire
	AV Mode	On	Video(REAR) Input (If RearCam-Type is OEM)
		Off	Disable feature
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	FrontCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off

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

10. OSD(On Screen Display) Control

OSD Option

First Menu	Second Menu	Third Menu	Description
Option	FrontCam-Det	CAN	Detected by CAN
		WIRE	Detected by Front-Det Wire
	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature
	SteeringWheelBtn	ON	Using the SteeringWheel buttons
		OFF	Disable feature
	Button	HOME	Using the "Home" button
		MAP	Using the "MAP" button
		ALL	Using the "MAP" button and "HOME" button
		OFF	Disable feature
	UI DVB-T (DMB)	ON	DVB-T device control UI output function
		OFF	Disable feature
	UI DVD	ON	DVD device control UI output function
		OFF	Disable feature

MENU	FrontCam-Power	NAVI
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	<input type="checkbox"/> On
Screen	SteeringWheelBtn	Left
Parking	UI DVB-T(DMB)	On

10. OSD(On Screen Display) Control

OSD Option

First Menu	Second Menu	Third Menu	Description
Option	ScrChg-Btn	ON	<p>■ When selecting SEEK, TRACK, TUNE-SCROLL button Switch back to OEM screen for 2 seconds and return</p> <p>■ When PWR-VOL button is selected Switch back to OEM screen for 4 seconds and return</p>
		OFF	Disable feature
	NAVI COM	HMS FINE :	Set up manufacturer of woodworking device for UART Touch use
		OFF	Disable feature
	Reset	Execute	Option Menu all Reset

MENU	UI DVD	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
Config	Reset	Execute Cancel
Option		
Image		
Screen		
Parking		

10. OSD(On Screen Display) Control

OSD Option -> FrontCam-RcvOpt

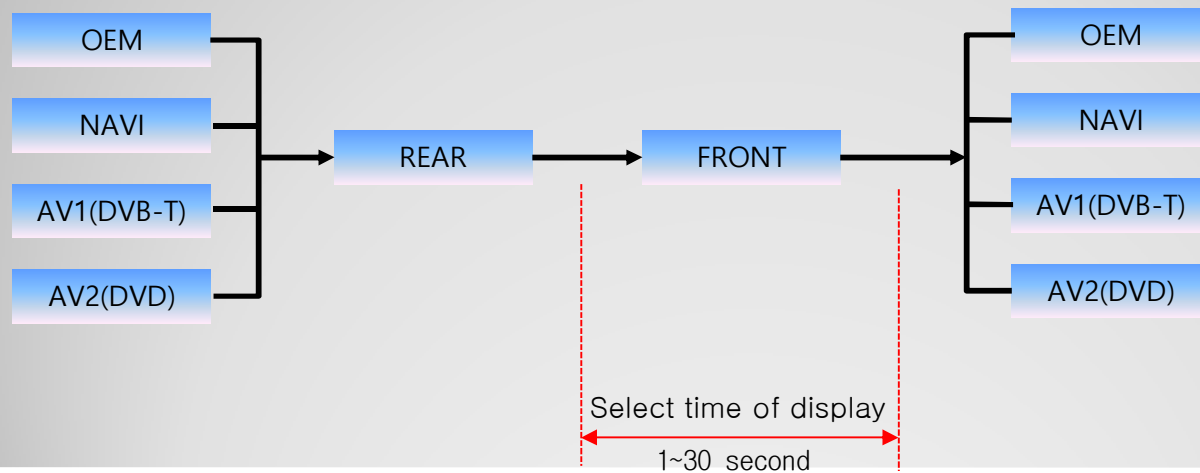
Front Camera Auto Mode

0 second = FrontCam-RcvOpt menu OFF

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

MENU	FrontCam-RcvOpt	NAVI
Config	FrontCam-RcvOpt	0s
Option	SteeringWheelBtn	On
Image	UI DVB-T(DMB)	On
Screen	UI DVD	On
Parking	ScrChg-Climate	On

MENU	FrontCam-RcvOpt	NAVI
Config	FrontCam-RcvOpt	30s
Option	SteeringWheelBtn	On
Image	UI DVB-T(DMB)	On
Screen	UI DVD	On
Parking	ScrChg-Climate	On



10. 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



<< Brightness >>



<< Contrast >>

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



<< Saturation >>

10. OSD(On Screen Display) Control

OSD – Screen Menu



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

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

10. OSD(On Screen Display) Control

OSD – Parking Menu

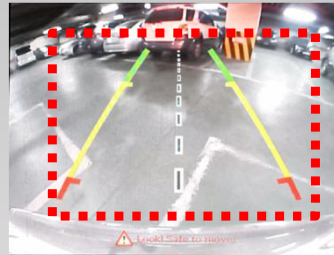
First Menu	Second Menu	Third Menu	Description
Parking	Line Display	ON	Show parking line
		OFF	Do not show parking lines
	Warnings Lang		Set warning text language
	Horizontal		Moving a parking line horizontally
	Vertical		Moving a parking line vertically
	Transparency		Parking line transparency
	Reset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

MENU	OPS Display		REAR
Config	OPS Display	Off	
Option	Line Display	Off	
Image	Warnings Lang	English	
Screen	Horizontal		50
Parking	Vertical		60

10. OSD(On Screen Display) Control

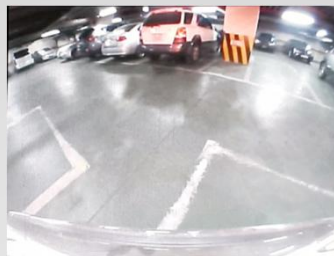
OSD Parking – Guide line On / Off

MENU	Parking / Line Display REAR	
Config	OPS Display	On
Option	Line Display	On Off
Image	Warnings Lang	Россия
Screen	Horizontal	<div><div></div></div> 50
Parking	Vertical	<div><div></div></div> 50



Parking Line ON Screen

MENU	Parking / Line Display REAR	
Config	OPS Display	On
Option	Line Display	On Off
Image	Warnings Lang	Россия
Screen	Horizontal	<div><div></div></div> 50
Parking	Vertical	<div><div></div></div> 50



Parking Line OFF Screen

10. OSD(On Screen Display) Control

OSD Parking – Change warning language

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

English

Check entire surroundings!

中文

请注意车辆周围环境!

한국어

차량 주변을 전부 확인

台灣

請注意車輛周圍環境!

Россия

Следите за всем окружением автомобиля!

日本

周辺の安全を確認

10. OSD(On Screen Display) Control

OSD Parking – Adjust position of parking guide line

MENU	Parking	REAR
Config	OPS Display	Off
Option	Line Display	On
Image	Warnings Lang	English
Screen	Horizontal	<div><div></div></div> 50
Parking	Vertical	<div><div></div></div> 50

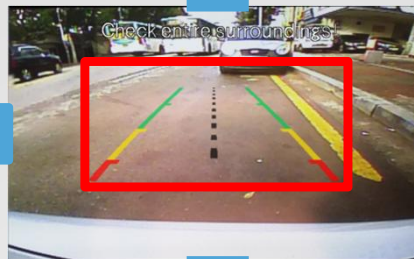
Possible to adjust the position of parking guide line by Keypad in Horizontal / Vertical menu

※ Pressing this Horizontal / Vertical menu, The OSD screen automatically disappears. Please adjust from the parking line Screen.



Press "UP" button

Press "MENU" button



Press "SEL" button

Press "DOWN" button

10. OSD(On Screen Display) Control

OSD – OSD Menu

First Menu	Second Menu	Third Menu	Description
OSD	Horizontal	<i>value</i>	OSD Menu Horizontal Shift
	Vertical	<i>value</i>	OSD menu vertical Shift
	Display Time	<i>value</i>	OSD Menu Display Time (in seconds)
	Transparency	<i>value</i>	OSD menu transparency
	Language		OSD menu display language
	Reset	Execute	Initialize OSD settings

MENU	Horizontal	DVB-T
OSD	Horizontal	50
IR-Ctrl	Vertical	50
Utility	Display Time	10s
	Transparency	30
	Language	English

MENU	Reset	DVB-T
OSD	Reset	Execute Cancel
IR-Ctrl		
Utility		

10. OSD(On Screen Display) Control

* IR learning function



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

MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	DVB-T(DMB)	Sel Learn Cancel
IR-Ctrl	DVD	Sys
Utility		

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



MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	All-Clear	
IR-Ctrl	POWER	----
Utility	SCAN	----
	CH+	----
	CH-	----

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



MENU	IR-Ctrl / DVB-T(DMB)	DVB-T
OSD	New Code: ----	
IR-Ctrl	Cfm Code: ----	
Utility		
	Save	Clr Cancel

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.

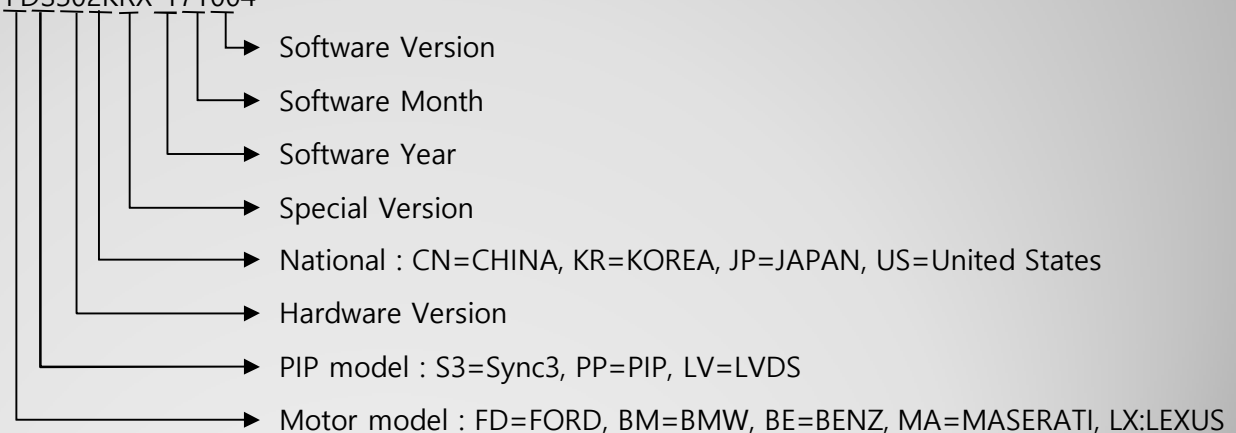
10. OSD(On Screen Display) Control

OSD Utility

First Menu	Second Menu	Third Menu	Description
Utility	Factory Reset	Execute	Initialize all settings
	Calibration	Execute	Run Calibration mode
	Version		FDS302KRX-171004 (Check for future upgrades)

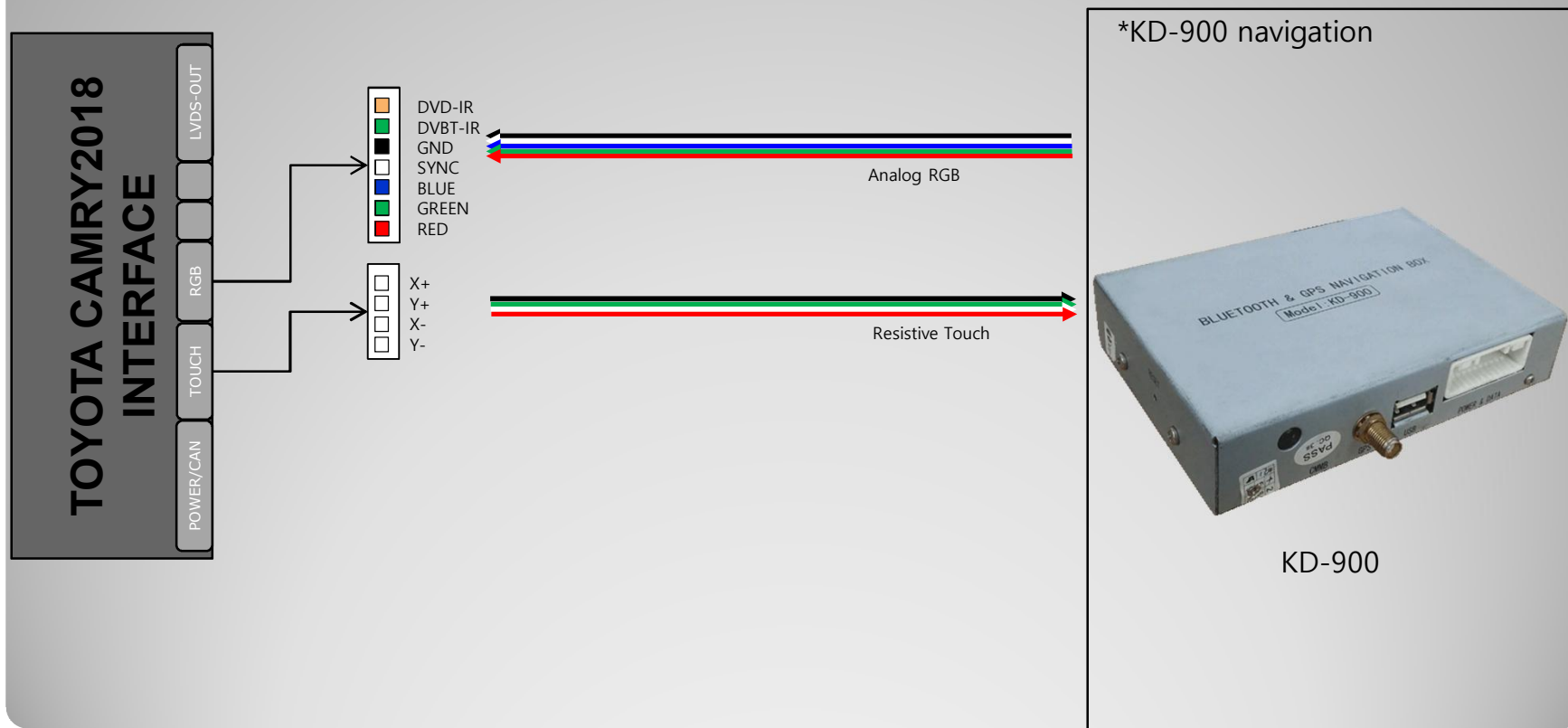
MENU	Utility	NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	FDS302KRX-171004

Last Source : FDS302KRX-171004



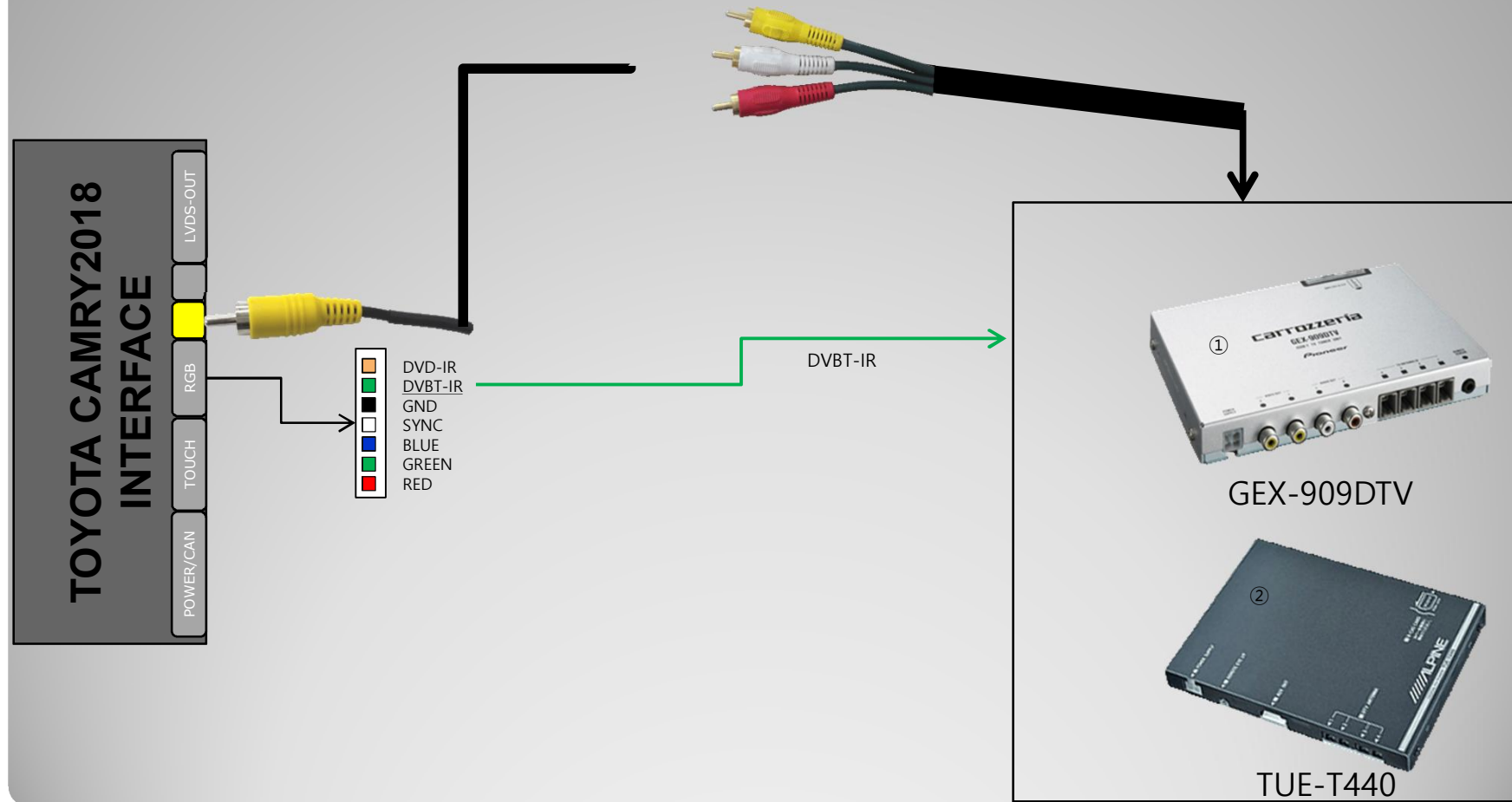
11. Install Manual

1. Installation Navigation Connection



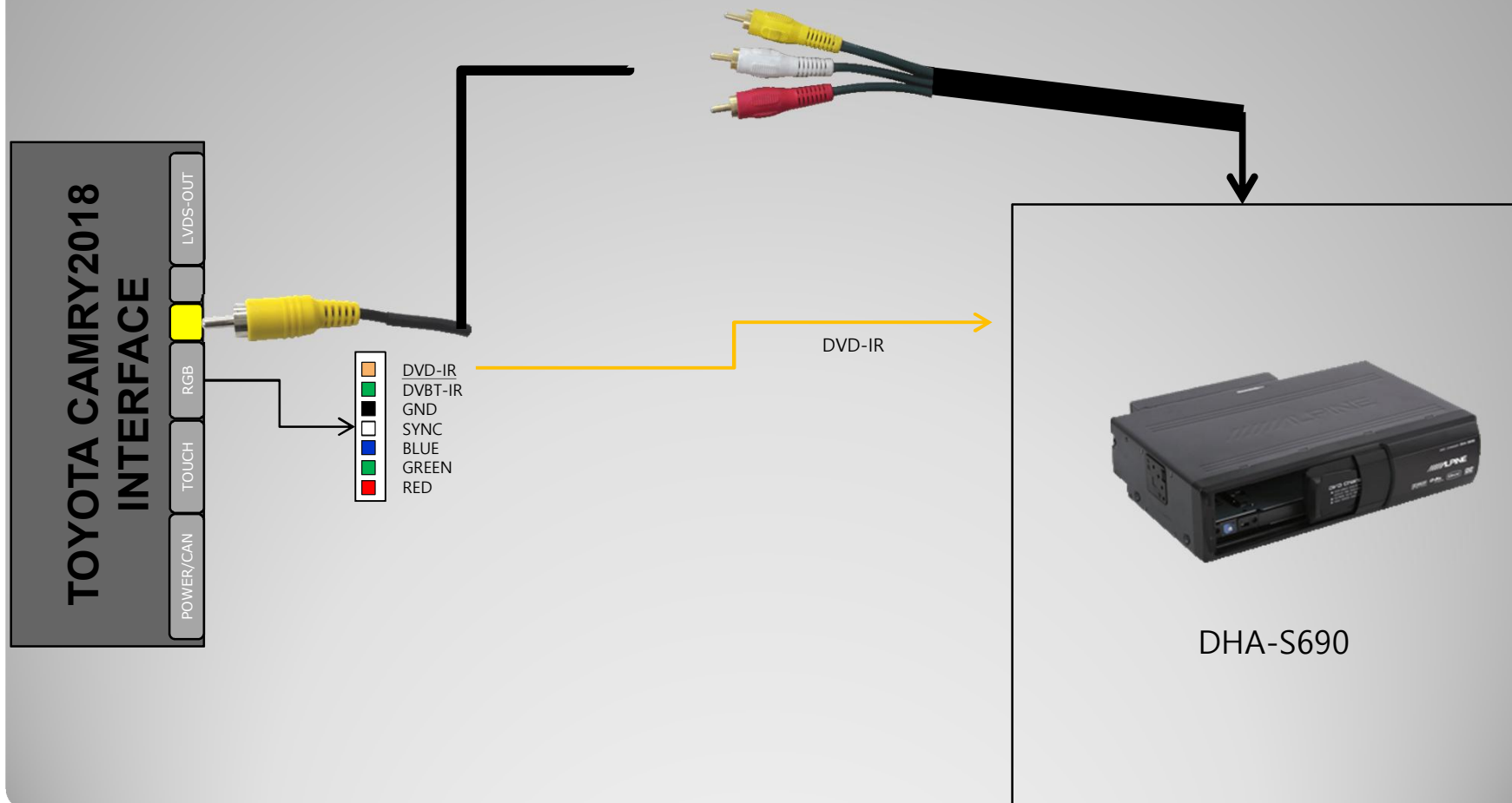
11. Install Manual

2. Installation DVB-T Remote Control Connection



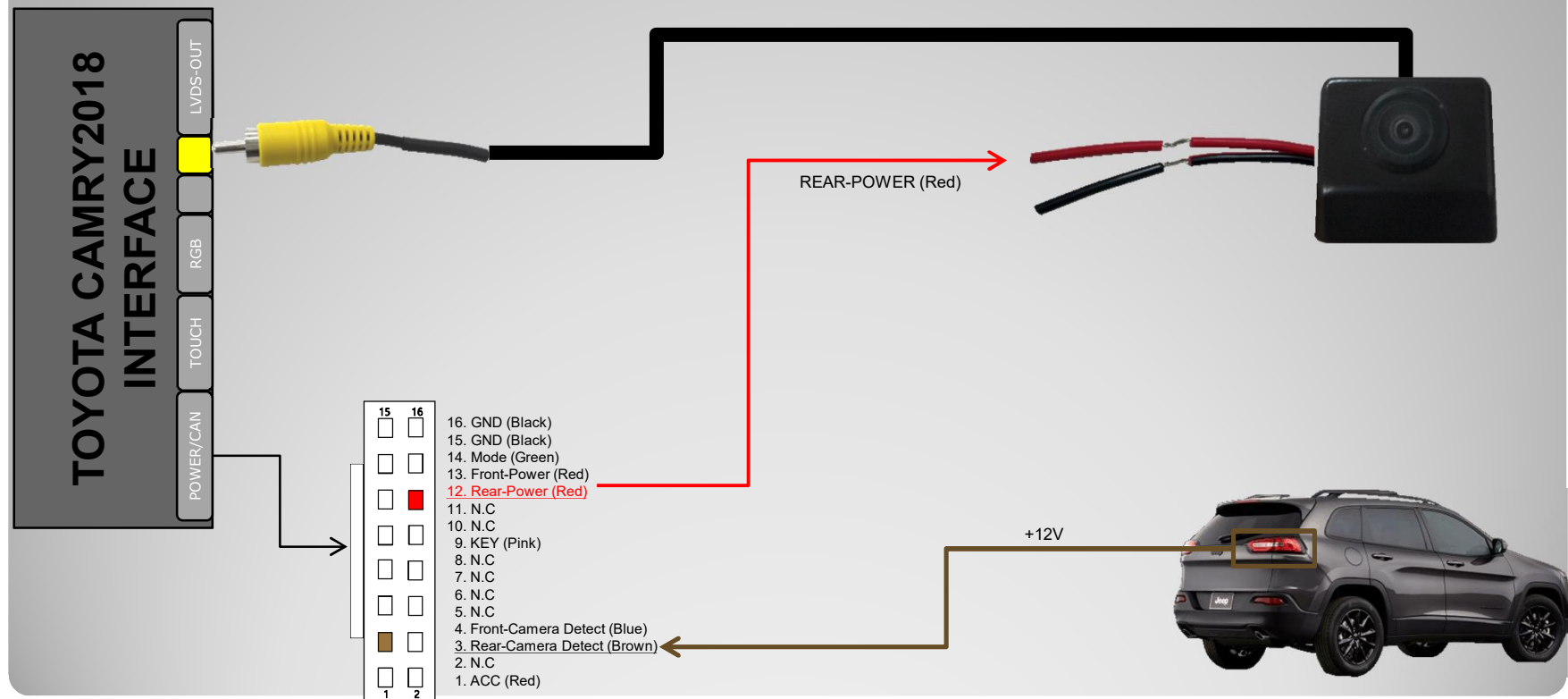
11. Install Manual

3. Installation DVD Remote Control Connection



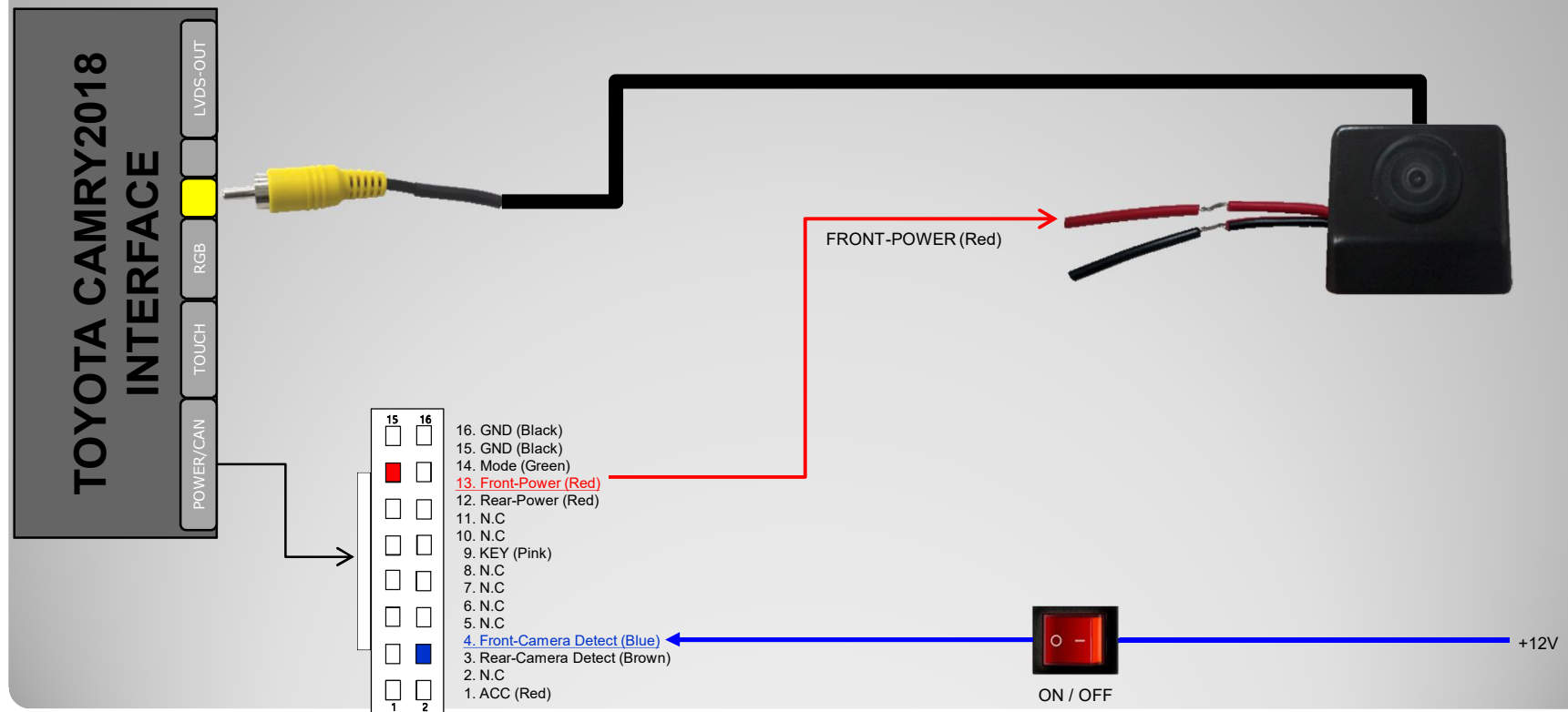
11. Install Manual

4. Installation External Reverse(Rear) Camera Connection : OSD Screen selection WIRE



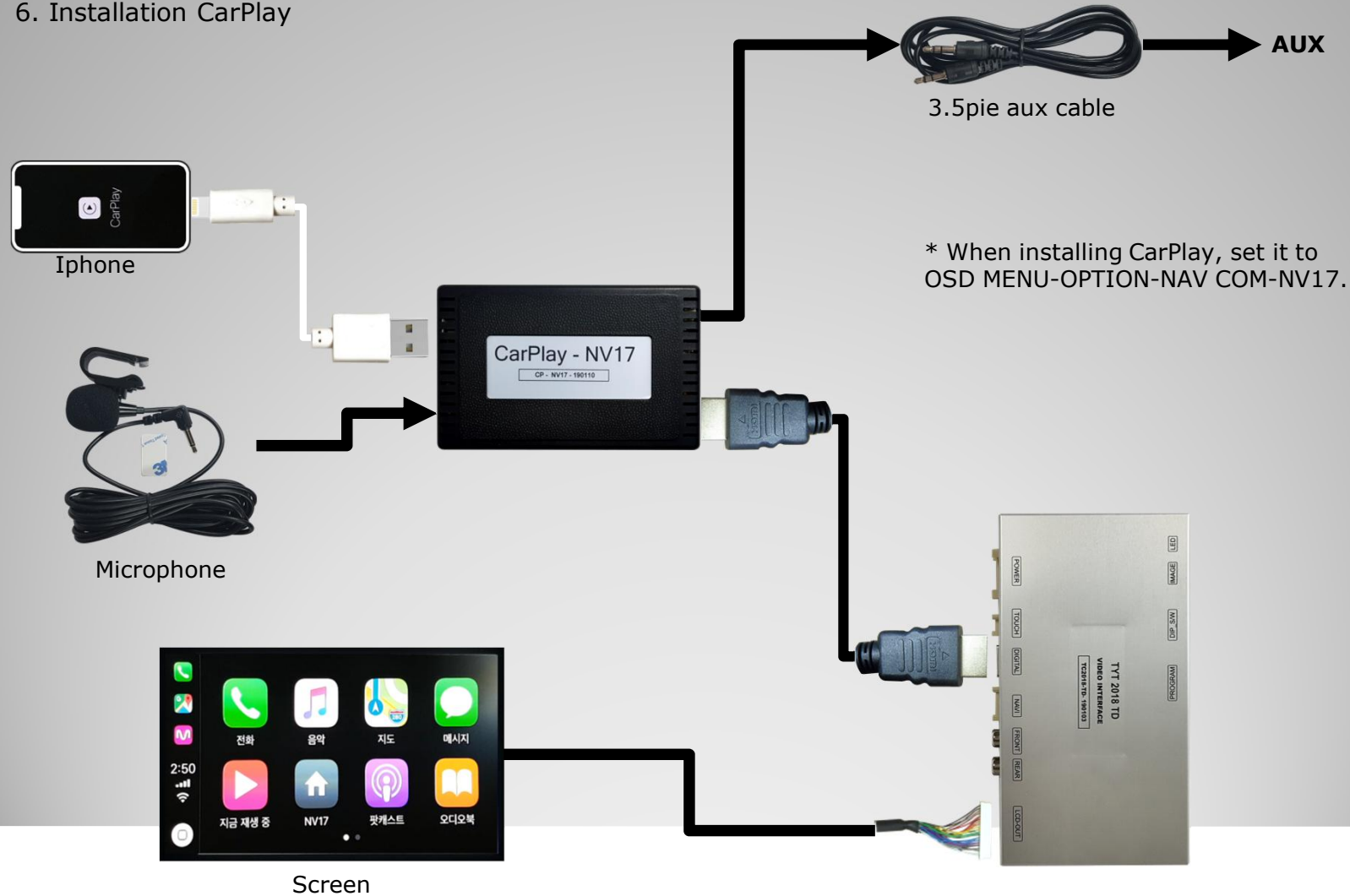
11. Install Manual

5. Installation External Front Camera Connection : OSD Screen selection WIRE



11. Install Manual

6. Installation CarPlay



11. Install Manual

* TOYOTA Camry (2018) Panasonic 8"

6. LVDS FPC cable connection



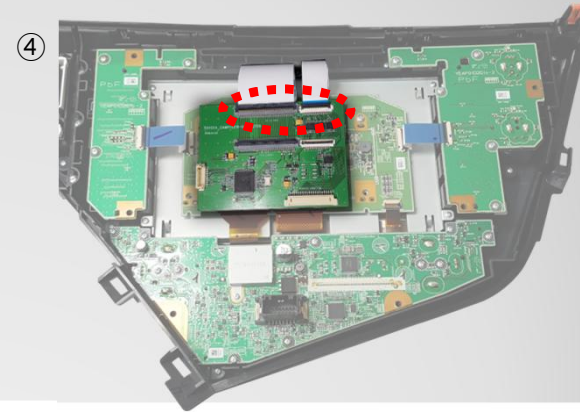
Remove the bolts



Genuine FPC cable removal



Connecting the Supplied FFC Cable

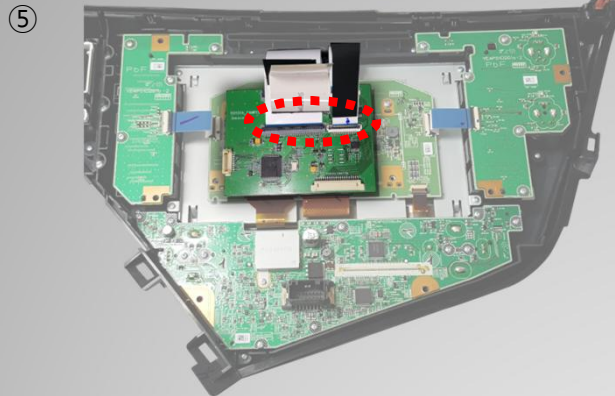


Connecting the supplied FFC cable to the supplied SUB board.

11. Install Manual

* TOYOTA Camry (2018) Panasonic 8"

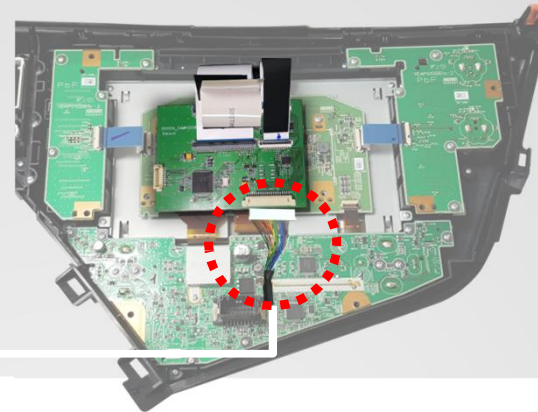
7. LVDS FPC cable connection



On the supplied SUB board Genuine FPC cable connection.



With the marked hole Insert one end of the LVDS cable.



Provided on the supplied SUB board LVDS cable connection.



All FFC cables Connect to see blue

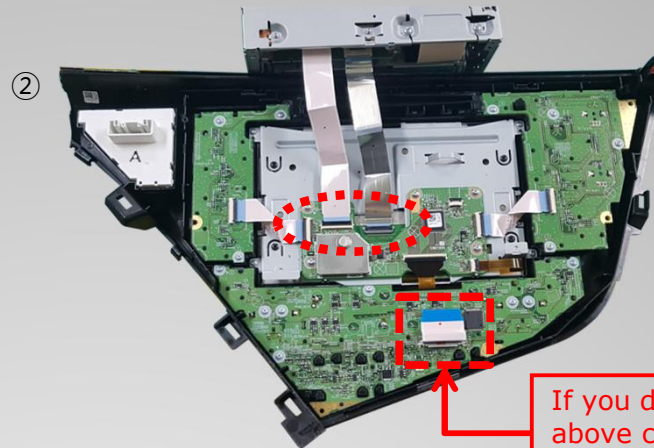
11. Install Manual

* TOYOTA Camry (2018) Pioneer 8"

6. LVDS FPC cable connection

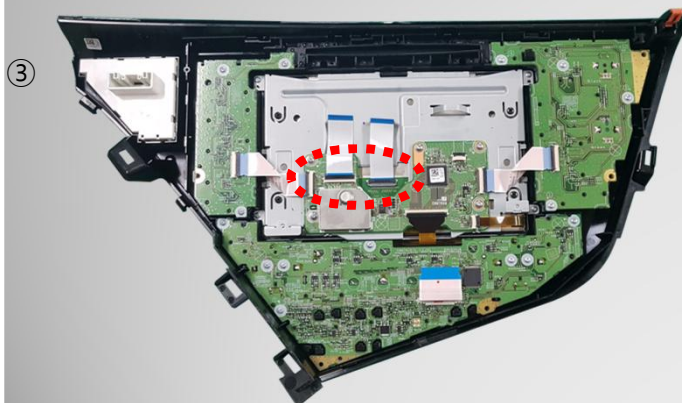


Remove the bolts

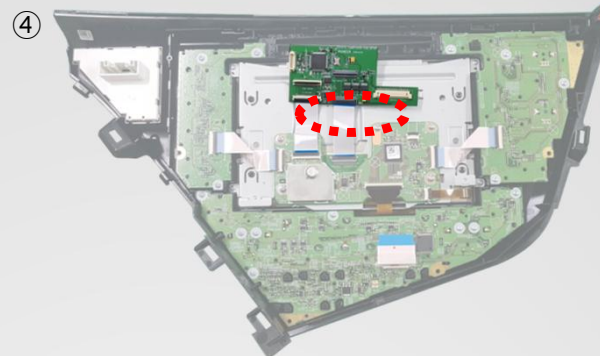


Genuine FPC cable removal

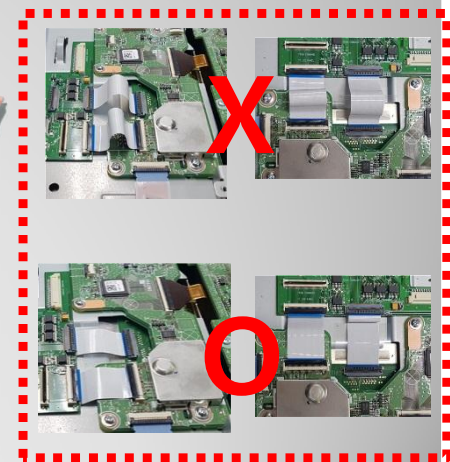
If you do not assemble the above cables Air conditioning does not work.



Connecting the Supplied FFC Cable



Connecting the supplied FFC cable to the supplied SUB board.

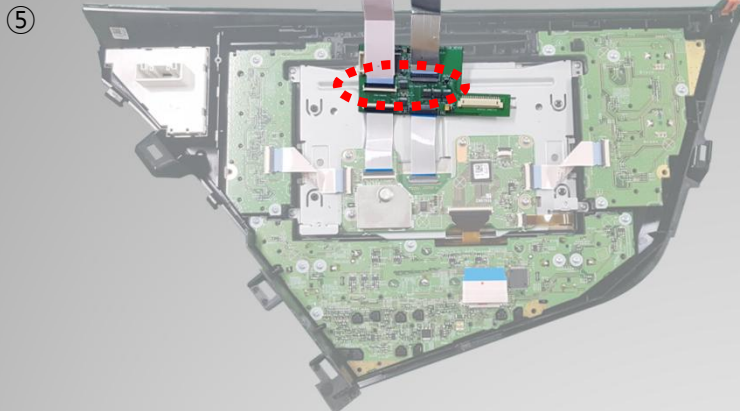


Fold the FFC cable and secure it with the sub board.

11. Install Manual

* TOYOTA Camry (2018) Pioneer 8"

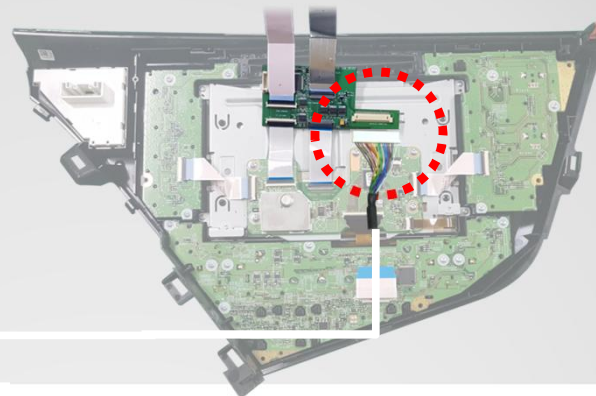
7. LVDS FPC cable connection



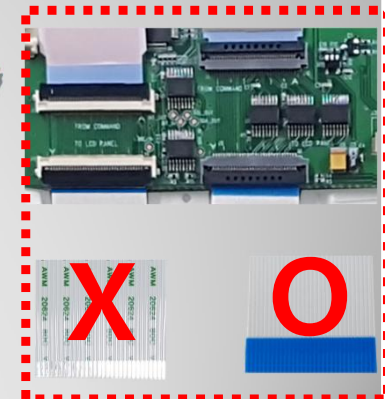
On the supplied SUB board Genuine FPC cable connection.



With the marked hole Insert one end of the LVDS cable.



Provided on the supplied SUB board LVDS cable connection.



All FFC cables Connect to see blue

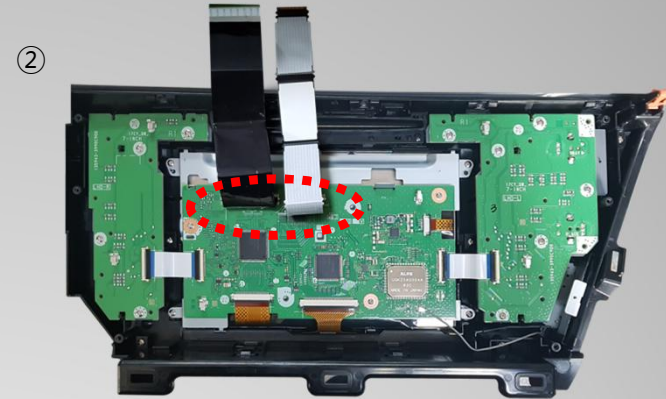
11. Install Manual

* TOYOTA Camry (2018) Fujitsuten 7"

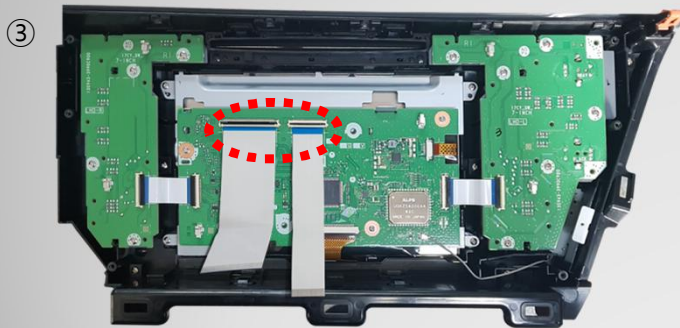
6. LVDS FPC cable connection



Remove the bolts



Genuine FPC cable removal



Connecting the Supplied FFC Cable



Connecting the supplied FFC cable to the supplied SUB board.

11. Install Manual

* TOYOTA Camry (2018) Fujitsuten 7"

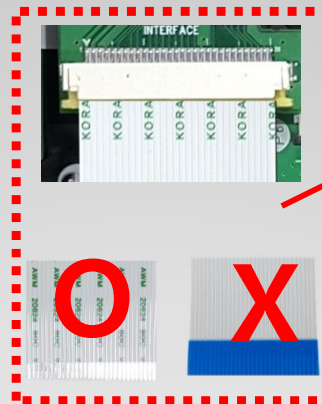
7. LVDS FPC cable connection

⑤

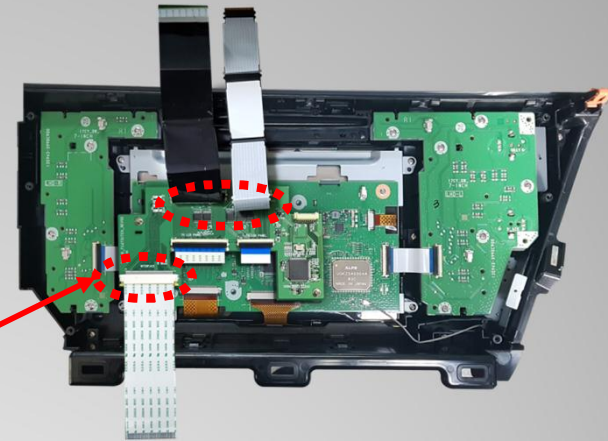


Using a washer between the board and the board.
Bolt with washer.

⑥



FFC cables Connect to see White color



Connect genuine cable to sub-board.
Connect the FFC cable provided on the sub-board.

⑦



Connect the LVDS extension board to the FFC cable.

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