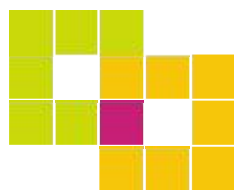


# Instruction Manual

Toyota Tundra 8" 2014Y~

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**GU ELECTRONIC**

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## Installation

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# Specification

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## 1. Main spec.

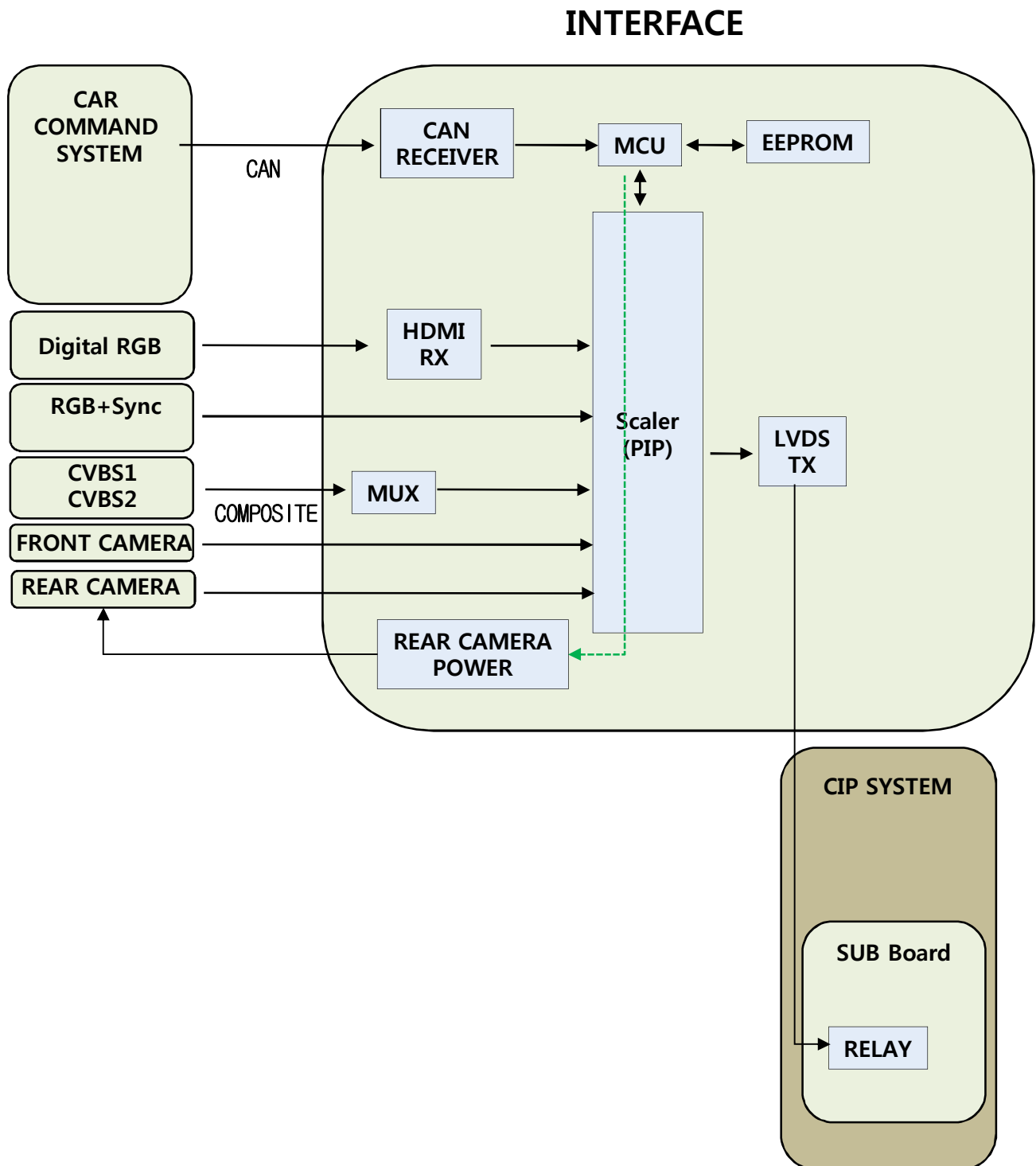
1. Input Spec. (MULTI VIDEO INTERFACE)
  - 1 x Analog RGB Input (Navigation System source)
  - 1 x Digital RGB Input (Navigation System source)
  - 2 x A/V Input (External video source)
  - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
  - 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
2. Output Spec.
  - 2 x CVBS Output (Video out for Installing Headrest Monitor)
  - 1 x Audio L/R Output.
  - 1 x Virtual Analog Touch (Navigation System source)
  - 1 x Uart Digital Touch (Navigation System source)
  - 1 x LCD Output (LCD Operation)
3. Power Spec.
  - Input Power : 8VDC ~ 24VDC
  - Consumption Power : 12Watt, Max
4. Switch Input mode
  - OEM button on steering wheel
  - The provided Mode switch

## 2. Features

- Possible to register IR code of DVD/DTV
- Easy installation by Jack by jack
- Possible to control DVD, DTV by OEM touch screen

# Specification

## 2. Diagram



# Specification

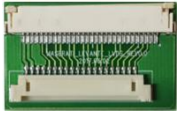
## 3. Components



LVDS FFC 30pin Cable 1EA



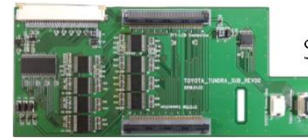
LVDS FFC 60pin Cable 1EA



Extension board 1EA



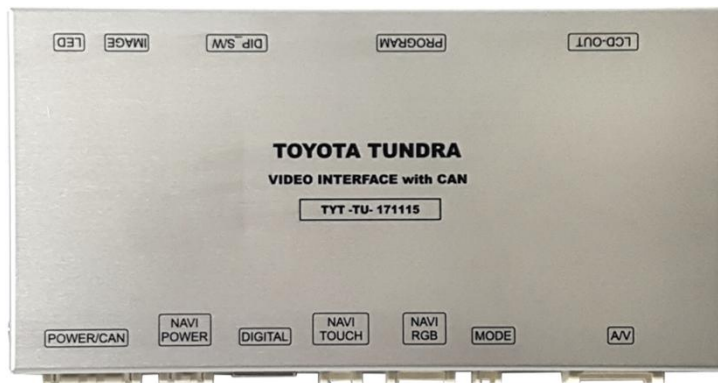
OSD Board 1EA  
(Code: CB-OSD10-CMX)



SUB Board 1EA



LVDS Cable (800mm) 1EA  
(Code: CB-LVDS-CMX-15)



Power Cable 1EA  
(Code: CB--PWR-01)



Touch Cable(KD-900) 1EA  
(Code: CB-LRVx51-TOUCH-CMX)



Mode S/W 1 EA



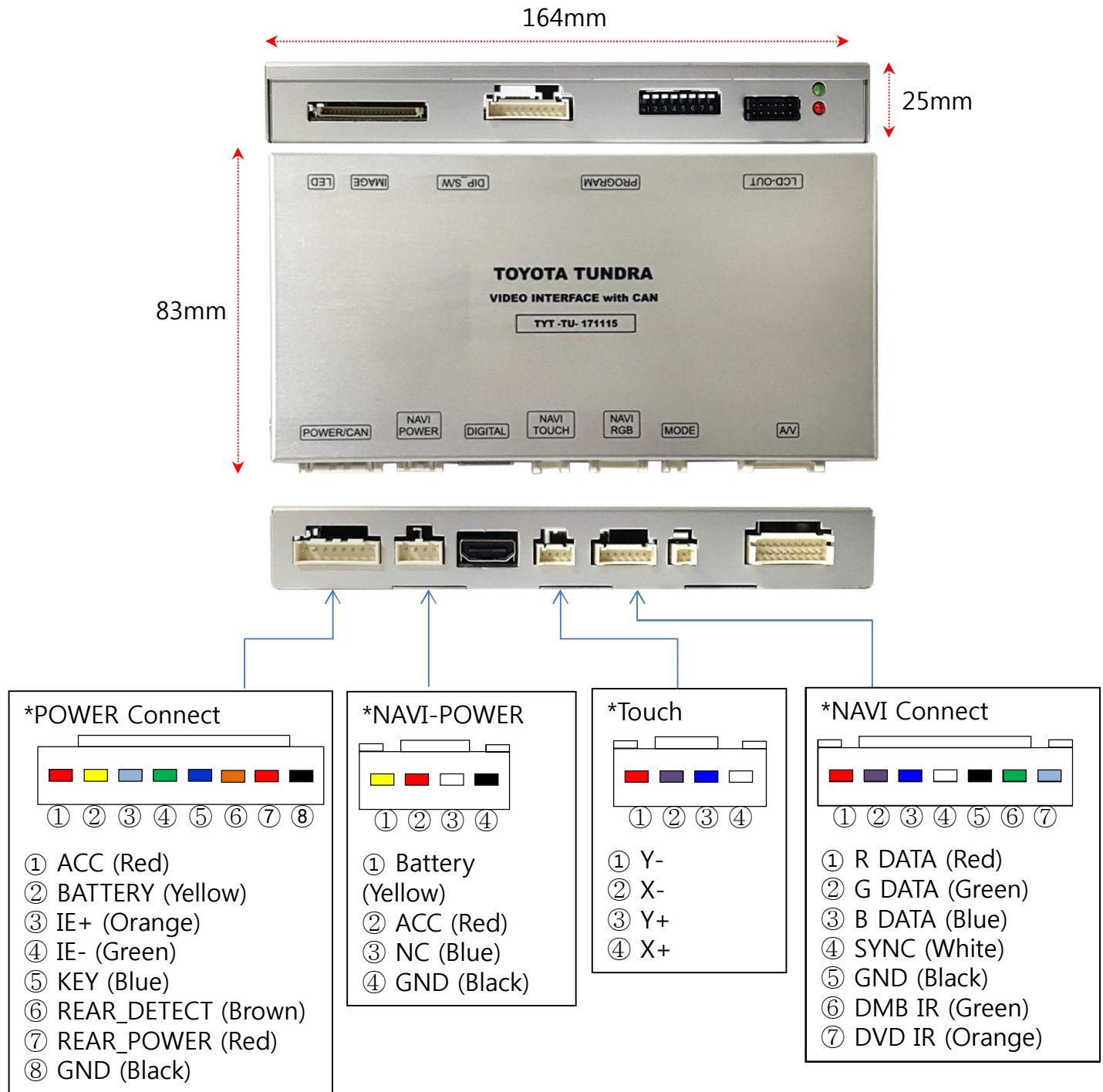
RGB NAVI Cable(7pin) 1EA  
(Code: CB-RGB7-CMX)



A/V Cable 1EA  
(Code: CB-AV20-CMX)

# Specification

## 4. Exterior



# Settings

## 1. Dip Switch

\* ON : DOWN , OFF : UP

NO.	Function	Selection
1	NAVI	ON : Skipping NAVI OFF : Display
2	AV1 (DVB-T)	ON : Skipping AV1 (DVB-T) OFF : Display
3	AV2 (DVD)	ON : Skipping AV2 (DVD) OFF : Display
4	N.C	
5	N.C	
6	Car Model	OFF
7		OFF
8		OFF

\* Example



Tundra 8" 2014~

# Settings

## 2. Original button (Switching Mode)



Sound button : Long Press → Switching mode

MENU	SteeringWheelBtn	NAVI
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	<input type="text" value="0s"/>
Screen	SteeringWheelBtn	On Off
Parking	UI DVB-T(DMB)	On

SteeringwheelBtn : ON



DIP-SW 1 : OFF position

※ The screen is switched in order as the pictures below





# Settings

## 3. Touch screen – Touch calibration

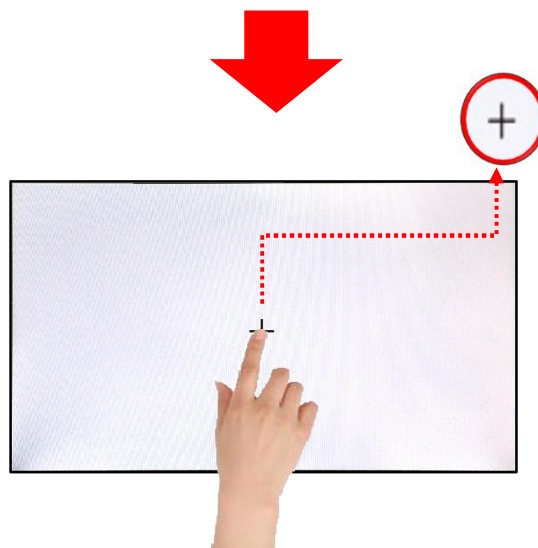


OR

MENU	Calibration		NAVI
OSD	Factory Reset	Execute	Cancel
IR-Ctrl	Calibration	Execute	Cancel
Utility	Version	TCTH00KRX-180401	

Touch OEM screen in any mode more than 11 sec. For calibration  
(This function can be activated only one time after switching mode)

Setup for Touch calibration  
(OSD Menu – Utility – Calibration – Execute or Cancel)



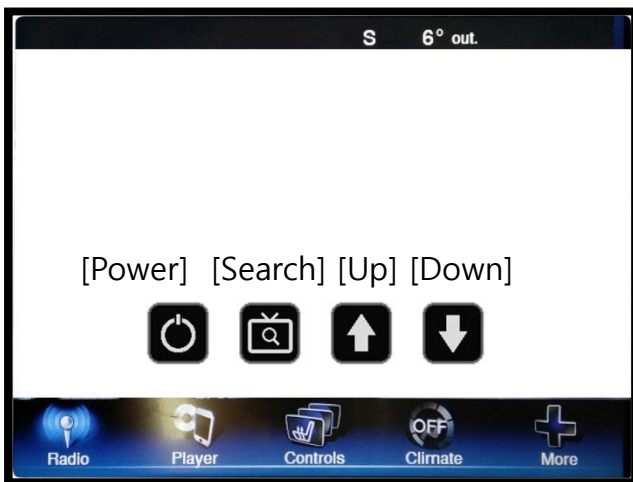
Touch the "+" correctly

# Settings

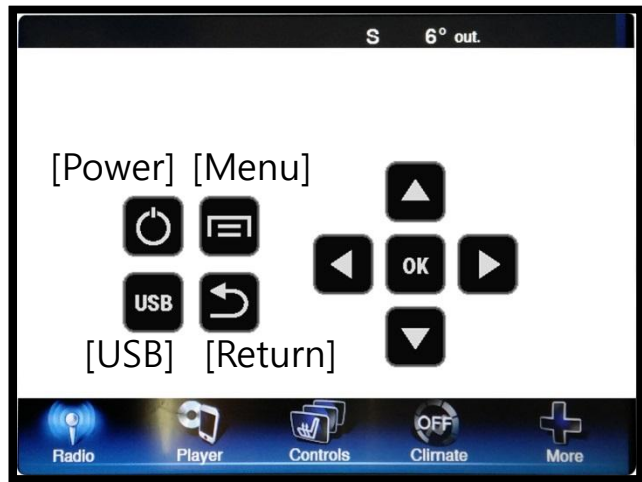
## 3. Touch screen – DVD, DTV control

※ Calibration : Touch any point of screen more than 11sec to start a touch calibration

- **DTV** – Please contact a supplier in advance for using this function

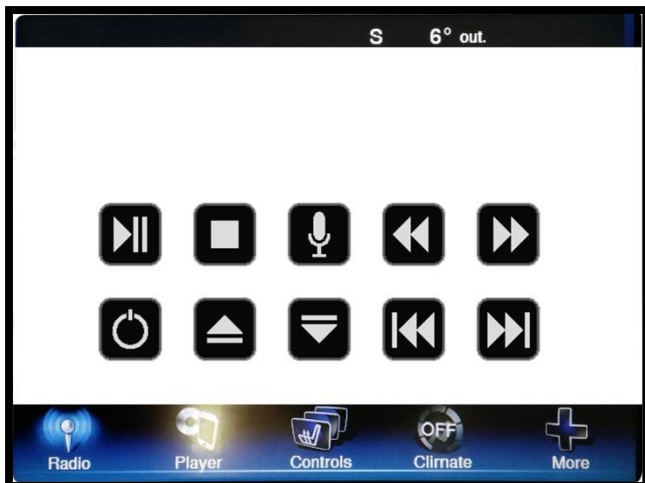


[Button type-1]



[Button type-2]

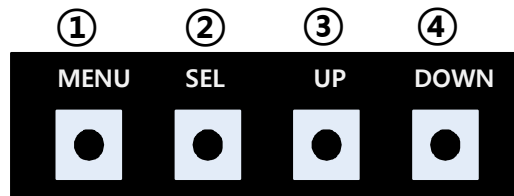
- **DVD**



※ To use this function, It is necessary to offer the remote IR code to manufacturer or setting OSD IR – Ctrl (P. 20)

# Settings

## 4. OSD Key board



- ① MENU :Activating OSD Menu
- ② SEL :Selection
- ③ Up :Moving upward (Increasing value)
- ④ Down :Moving downward (Decreasing value)

## 5. OSD Menu

※Press "MENU" button on Key board

MENU	Config		NAVI
Config	NAVI-RGB	GI5000-WVGA	
Option	DVB-T(DMB)	ELT_DVBT20	
Image	DVD	ELT_980XU Slim	
Screen	HDMI	CASTIT	
Parking	RearCam	AVM	

Config - NAVI-RGB : Setup for the type of RGB  
Config - DVB-T(DMB) : Setup for the type of DVB-T(DMB)  
Config - DVD : Setup for the type of DVD  
Config - HDMI : Setup for the type of HDMI  
Config – RearCam(AVM) : Setup for the type of Around View  
Reset : Reset all value

# Settings

## 5. OSD Menu

※Press "MENU" button on Key board

MENU	Option		NAVI
Config	Rear Cam - Type	OEM	
Option	Rear Cam - Power	Auto	
Image	Rear Cam - Det	WIRE	
Screen	AV Mode	On	Off
Parking	Front Cam - Type	ExtDevice	

### Option

- RearCam-Type : Setup for rear camera  
ExtDevice - External rear camera  
OEM - Original camera
- RearCam-Power : Setup for Rear VCC wire in power cable  
ON - +12V out always (current consumption : 200mA)  
AUTO - +12V out in rear mode only (200mA)  
OFF - Power OFF
- RearCam-Det : Setup for Rear detection  
CAN - By CAN  
WIRE - By rear cam detect wire  
OFF - Rear detection OFF
- AV Mode : Change "Rear" input as Video input  
ON - Video input (Rearcam TYPE in OSD menu should be "OEM")  
OFF - Rear input
- FrontCam-Type : Setup for front camera  
ExtDevice - External rear camera  
OEM - Original camera

# Settings

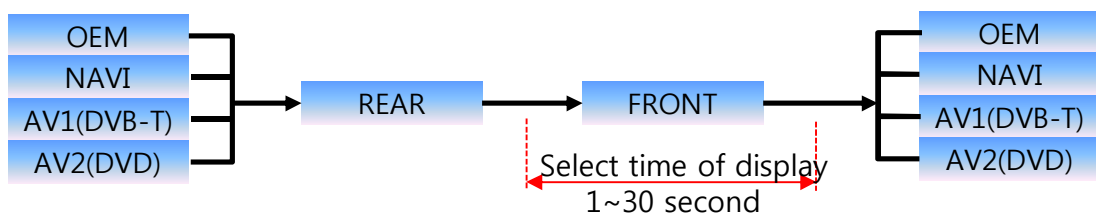
## 5. OSD Menu

※Press "MENU" button on Key board

MENU	Option	NAVI
Config	Front Cam-Power	Auto
Option	Front Cam-Det	ExtWire
Image	Front Cam-RcvOpt	<input type="text"/> 0s
Screen	SteeringWheelBtn	Off
Parking	UI DVB-T(DMB)	On

### Option

- FrontCam-Power : Setup for Front VCC wire in power cable  
ON - +12V out always (current consumption : 200mA)  
AUTO - +12V out in rear mode only (200mA)  
OFF - Power OFF
- FrontCam-Det : Setup for front detection  
GEAR - By CAN  
Extwire – by rear cam detect wire
- FrontCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



- Button : Setting for OEM Home button (Switching Mode) - ON or OFF

# Settings

## 5. OSD Menu

※Press "MENU" button on Key board

MENU	Option		NAVI
Config	UI DVB-T(DMB)	On	
Option	UI DVD	On	
Image	ScrChg-Btn	On	
Screen	NAVI COM	Off	
Parking	Reset	Execute	
		Cancel	

### Option

- UI DVB-T(DMB) : Setting for DVB-T(DMB) UI ICON - ON or OFF
- UI DVD : Setting for DVD UI ICON - ON or OFF
- ScrChg-Btn : Setup for switching from external screen to OEM mode screen  
    ※ The OEM screen will appear only for 2 or 4sec.  
    ON – ON  
    OFF - OFF
- NAVI COM : Connect touch through UART  
    ※ Necessary to get Uart protocol from NAVI Manufacturer
- Reset : Reset all value

# Settings

## 5. OSD Menu

※Press "MENU" button on Key board

### - NAVI(RGB) Image / Screen

MENU	IMAGE	NAVI
Config	Brightness	<input type="range"/> 50
Option	Contrast	<input type="range"/> 50
Image	Color- RED	<input type="range"/> 50
Screen	Color- GREEN	<input type="range"/> 50
Parking	Color- BLUE	<input type="range"/> 25

MENU	Screen	NAVI
Config	Horizontal	<input type="range"/> 50
Option	Vertical	<input type="range"/> 50
Image	Scale X Up	<input type="range"/> 50
Screen	Scale X Down	<input type="range"/> 50
Parking	Scale X Up	<input type="range"/> 50

### - DVD, DVBT, NAVI-AV, REAR, FRONT Image

MENU	IMAGE	Rear
Config	Brightness	<input type="range"/> 50
Option	Contrast	<input type="range"/> 50
Image	Saturation	<input type="range"/> 50
Screen	Hue	<input type="range"/> 50
Parking	Sharpness	<input type="range"/> 25

# Settings

## 5. OSD Menu

※Press "MENU" button on Key board

### - Parking guide line ON/OFF

MENU	Parking <span style="color: red;">Rear</span>	
Config	Line Display	On
Option	Warning Lang	English
Image	Horizontal	<input type="range"/> 50
Screen	Vertical	<input type="range"/> 50
Parking	Reset	Execute Cancel

Selecting a use of packing guide line  
(OSD Menu – Parking – Line display – ON or OFF)



Parking line "ON"

### - Warning Language for rear screen

MENU	Parking <span style="color: red;">Rear</span>	
Config	Line Display	On
Option	Warning Lang	English
Image	Horizontal	<input type="range"/> 50
Screen	Vertical	<input type="range"/> 50
Parking	Reset	Execute Cancel

Check entire surroundings!
请注意车辆周围环境!
차량 주변을 전부 확인
請注意車輛周圍環境!
Следите за всем окружением автомобиля!
周辺の安全を確認

Selecting a type of language (OSD Menu – Parking – Warning Lang)

### - Adjust the position of Parking guide line

MENU	Parking <span style="color: red;">Rear</span>	
Config	Line Display	On
Option	Warning Lang	English
Image	Horizontal	<input type="range"/> 50
Screen	Vertical	<input type="range"/> 50
Parking	Reset	Execute Cancel

Possible to adjust the position of line  
by Keypad in Horizontal / Vertical menu  
※ After pressing the "Horizontal" / "Vertical" in OSD menu  
The OSD screen automatically disappears.  
In this state, Please adjust the position by Keypad

MENU	SEL	UP	DOWN
<input type="button" value="Left"/>	<input type="button" value="Right"/>	<input type="button" value="UP"/>	<input type="button" value="Down"/>



# Settings

## 5. OSD Menu

※Press "MENU" button on Key board

### - OSD

MENU	Horizontal	
OSD	Horizontal	<input type="range"/> 50
IR-Ctrl	Vertical	<input type="range"/> 50
Utility	Display	<input type="range"/> 10s
	Transparency	<input type="range"/> 30
	Language	English

- OSD – Horizontal
- OSD – Vertical
- OSD – Display : Setting time for displaying OSD menu
- OSD – Transparency
- OSD – Language : Setting language of ODS menu

### - IR – Ctrl (p.20)

### - Utility

MENU	Horizontal	
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	TCTH00KRX - 180401

- Utility – INTERFACE SOFTWARE

# Settings

## 5. OSD Menu– Register IR code

※Press "MENU" button on Key board

### - IR Ctrl

①

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

① Select IR Ctrl → DVB/DVD → Learn to register IR code

②

MENU	DVB-T(DMB) DVD	
OSD	ALL - Clear	
IR-Ctrl	POWER	___
Utility	SCAN	___
	CH+	___
	CH-	___


② All Clear : Remove all value of Remote control registered before  
Select one of the buttons registering to move on to next step

③

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

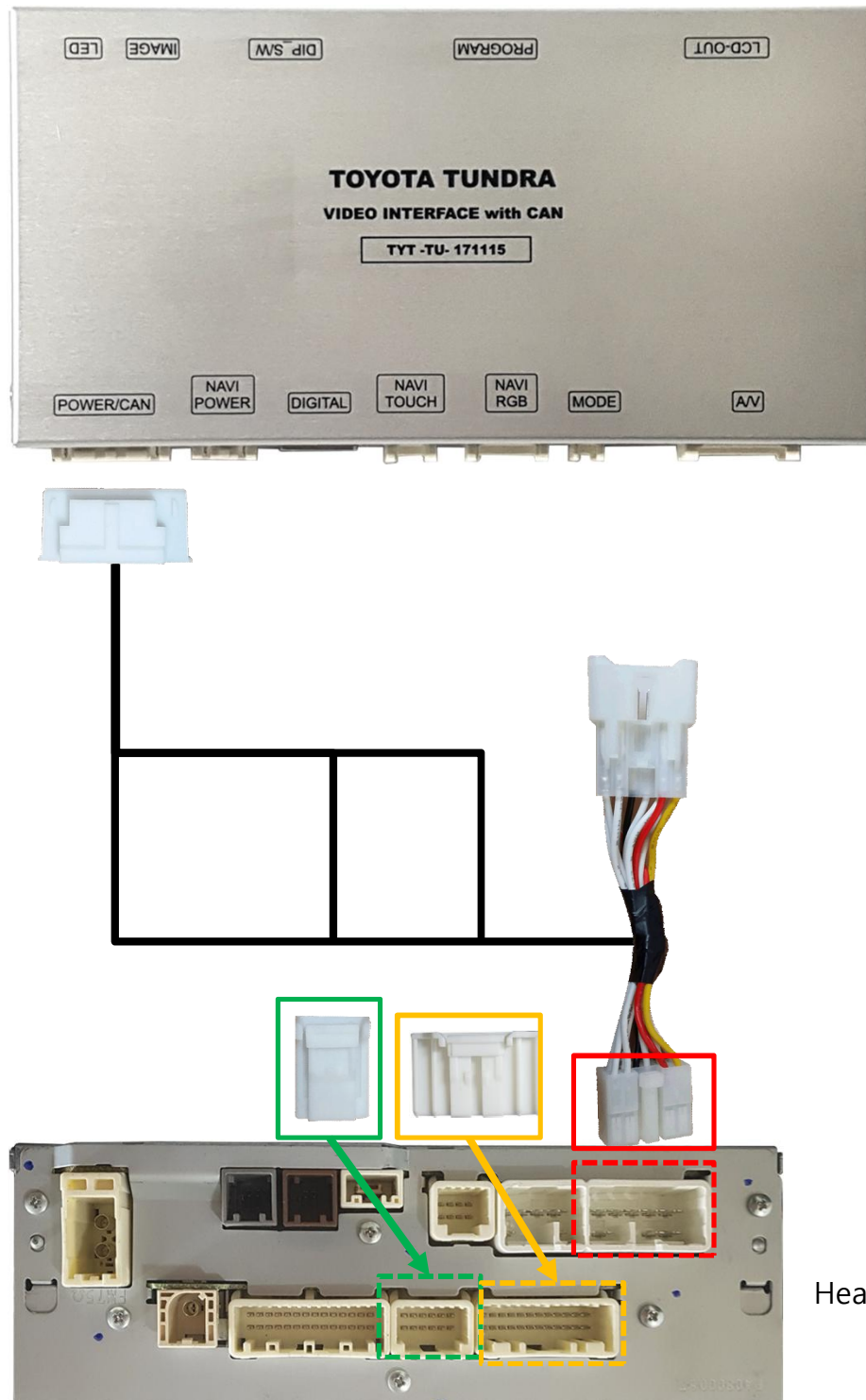
③ Press a button on the remote control of DVD/DTV then the IR code will be appeared on "New code" menu. Press the same button one more time to confirm the IR code. (Cfm code = confirm code)

### ※ Caution

- Delete :  
ALL Clear – Delete all value  
Clr – Delete one button's Value
- Play/Pause:  
To use  button, Please register the IR code in power / Pause menu separately

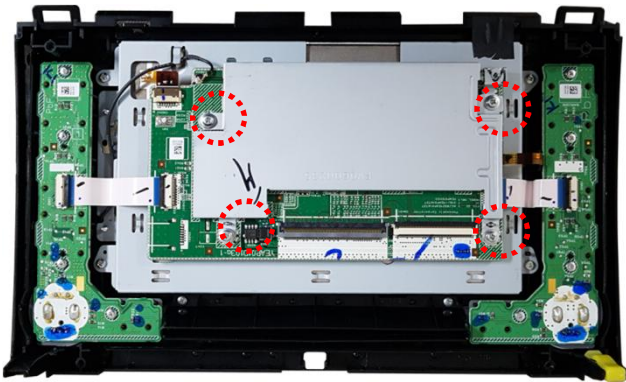
# Installation

## 1. LVDS cable connection

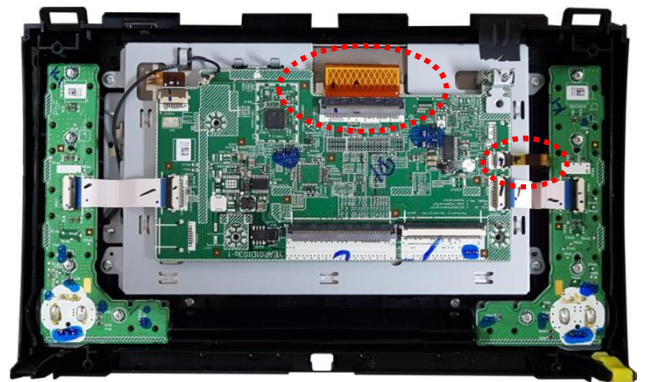


# Installation

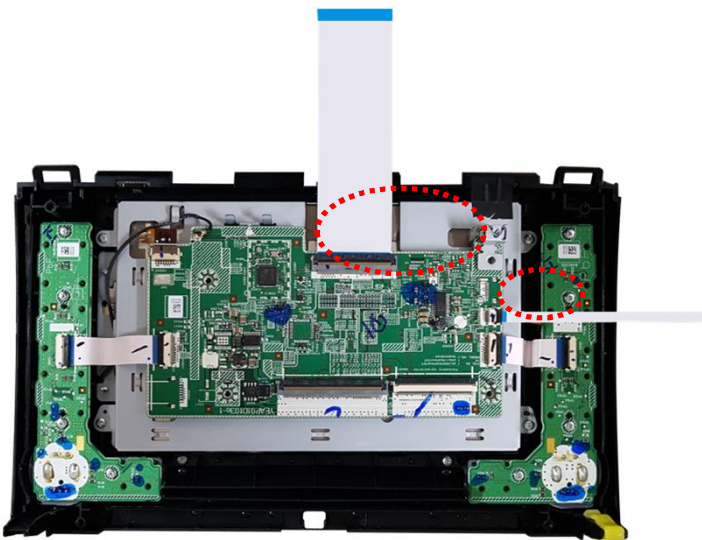
## 2. LVDS FPC cable connection



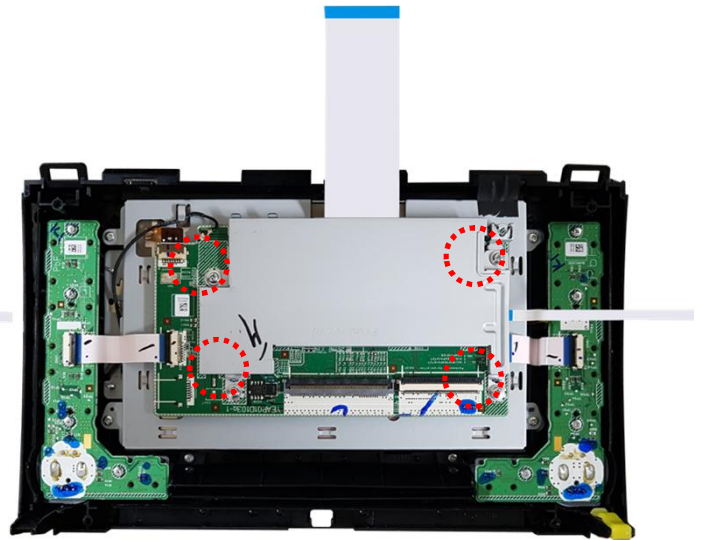
① Unscrew and remove the cover



② Disconnect the OEM FPC cable.



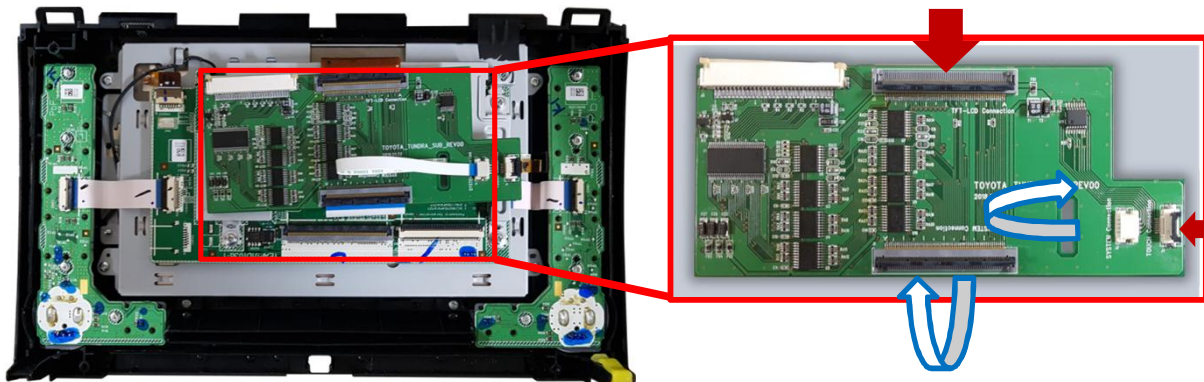
③ Connect the provided FFC cable (100, 170mm)



④ Assemble the removed cover and mount the screw

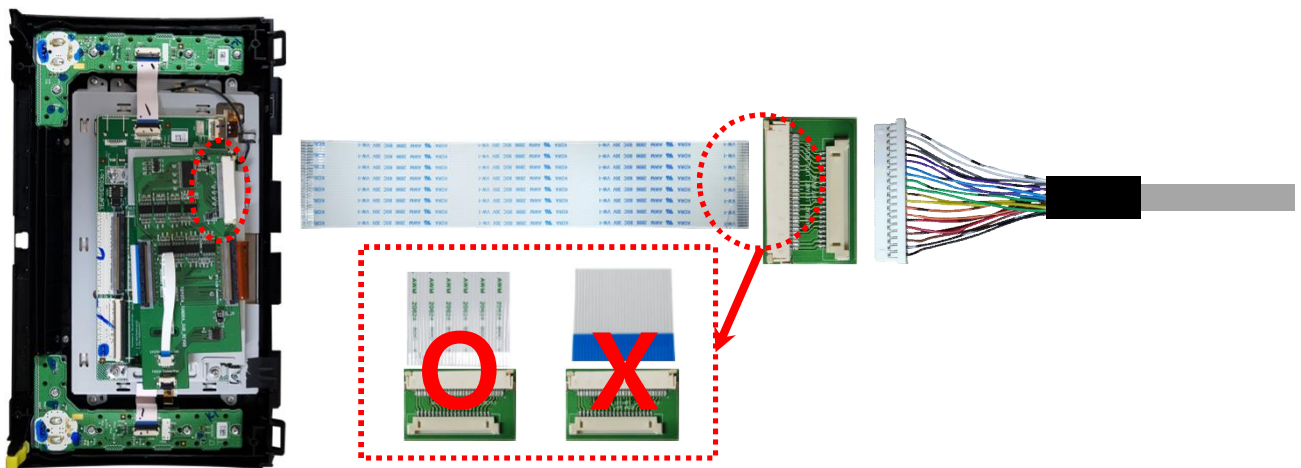
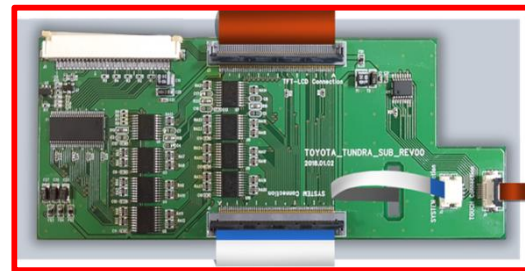
# Installation

## 2. LVDS FPC cable connection



⑤ OEM cable and supplied cable Connect to the supplied SUB Board.

- OEM cable connection
- The provided cable connection



⑥ Connect the provided FFC cable (165mm), then connect the LVDS extension board to the LVDS cable



# Caution

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## 2. FQA

- Not possible to switch mode
  - Check connection of OSD Key pad wire
  - Check CAN connection
- Display wrong size of picture
  - Check Dip s/w setting
- Display black screen in OEM mode
  - Check connection of LVDS/LCD cable
- Not possible to switch to rear screen
  - Check the packing setting  
(OSD Menu – option – RearCam-Det)

## 3. Caution

- The device must not be installed in where it interferes driving (close to brake pedal, steering wheel, airbag etc.)
- LVDS cable must be connected correctly according to the manual
- Insulate the end of wire by using electrical tape
- The installation should be done by expert
- GU electronic does not take any responsibility for any problem caused by wrong installation



**GU Electronic**

*For your better driving*