

# ROIK-LX

- MODEL : ROIK-LX
- DATE : 2018.05.10

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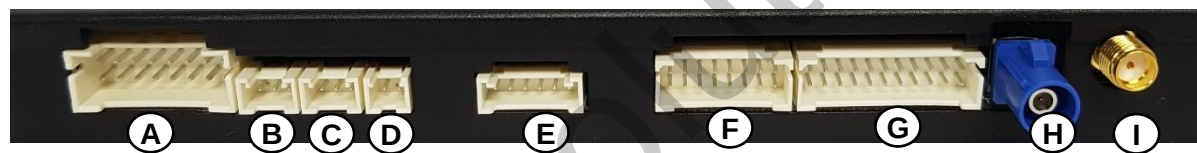
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# Specification

- Android
  1. OS : Android 5.1.1(Lollipop)
  2. CPU : NXP5430Q - Cortex-A53 Octa Core @1.6Ghz Mali-400 MP4 GPU
  3. Memory : 2GB DDR3 @800Mhz
  4. SD Card : 16GB (SDHC Class10, Max 32GB support, FAT32)
  5. USB : USB2.0 High Speed Port x 2
  6. Telecommunication : 802.11 b/g/n Wi-Fi, Bluetooth 4.0
  7. GPS : Ublox7
  8. Speaker : 2W
  9. Temperature : Storage -20 C ~ +80 C/ Operating -15 C ~ +70 C
- Interface
  1. Input Spec.
    - 1 x A/V Input ( external video source )
    - 1 x HDMI Input ( up to 720P )
  2. Output Spec.
    - 1 x Audio L/R Output
    - 1 x LVDS Output ( LCD Operation )
  3. Power Spec.
    - Input Power : 12V DC ~ 24V DC
    - Consumption Power : 12 Watt Max
  4. I/O
    - Output :
      1. 12V Output ( 3A Max )
      2. DVB-T IR ( Remote Control )
    - Input :
      1. OMNI Key ( Reserved. )

## 2

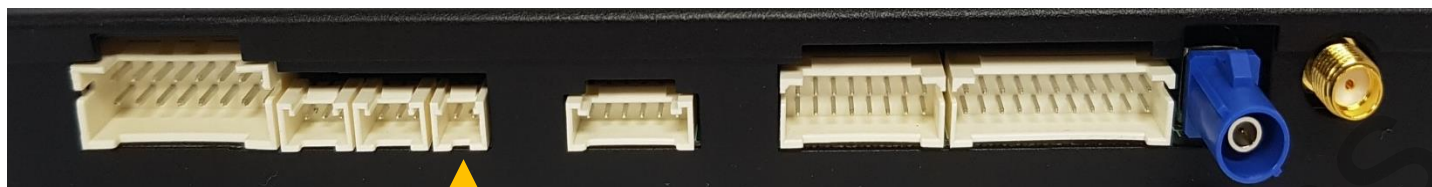
## External Appearance



|          |                                    |          |                          |
|----------|------------------------------------|----------|--------------------------|
| <b>A</b> | <b>Power/Can Calbe</b>             | <b>I</b> | <b>Wifi / BT Antenna</b> |
| <b>B</b> | <b>DEBUG - main</b>                | <b>J</b> | <b>DEBUG - tw88</b>      |
| <b>C</b> | <b>DEBUG - sub</b>                 | <b>K</b> | <b>SD Card Slot</b>      |
| <b>D</b> | <b>K-PAD</b>                       | <b>L</b> | <b>HDMI Input</b>        |
| <b>E</b> | <b>GVIF In/Out</b>                 | <b>M</b> | <b>5V Power</b>          |
| <b>F</b> | <b>AV IN (AV Cable)</b>            | <b>N</b> | <b>Dip Switch</b>        |
| <b>G</b> | <b>AV IN/OUT (Universal Cable)</b> | <b>O</b> | <b>USB 2.0 x 2</b>       |
| <b>H</b> | <b>GPS Antenna</b>                 |          |                          |

# 3

## Connector Pin Assignment



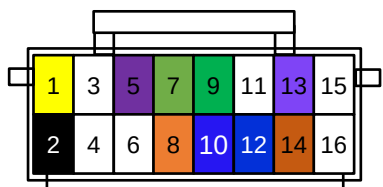
※ POWER CABLE

※ AV CABLE

※ UNIVERSAL CABLE

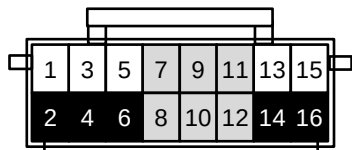


※ POWER CABLE



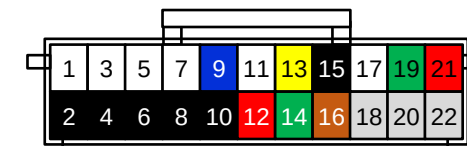
|    |              |    |              |
|----|--------------|----|--------------|
| 1  | BATTERY      | 2  | GND          |
| 3  | N.C.         | 4  | N.C.         |
| 5  | 12V_OUT      | 6  | N.C.         |
| 7  | N.C.         | 8  | REAR_12V     |
| 9  | TOUCH_SW     | 10 | OMNI_KEY     |
| 11 | ECU_CAN_H    | 12 | ECU_CAN_L    |
| 13 | TOYOTA_BUS_L | 14 | TOYOTA_BUS_H |
| 15 | MON_CAN_L    | 16 | MON_CAN_H    |

※ AV CABLE



|    |           |    |      |
|----|-----------|----|------|
| 1  | DVBT_IN_V | 2  | GND  |
| 3  | DVBT_IN_R | 4  | GND  |
| 5  | DVBT_IN_L | 6  | GND  |
| 7  | N.C.      | 8  | N.C. |
| 9  | N.C.      | 10 | N.C. |
| 11 | N.C.      | 12 | N.C. |
| 13 | FRONT_IN  | 14 | GND  |
| 15 | REAR_IN   | 16 | GND  |

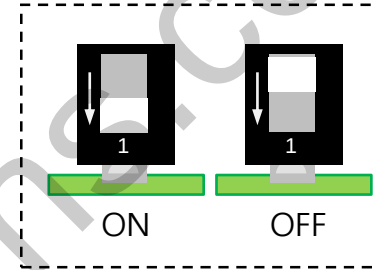
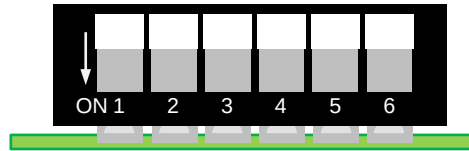
※ UNIVERSAL CABLE



|    |             |    |            |
|----|-------------|----|------------|
| 1  | SPK_P       | 2  | SPK_N      |
| 3  | AUX_OUT_R   | 4  | AUX_GND    |
| 5  | AUX_OUT_L   | 6  | AUX_GND    |
| 7  | MIC_P       | 8  | MIC_N      |
| 9  | I2C_CAP_SCL | 10 | CAP_GND    |
| 11 | I2C_CAP_SDA | 12 | CAP3.3V    |
| 13 | CAP_TU_INT  | 14 | CAP_TU_RST |
| 15 | TOUCH_X-    | 16 | DVB_T_IR   |
| 17 | TOUCH_Y-    | 18 | N.C.       |
| 19 | TOUCH_X+    | 20 | N.C.       |
| 21 | TOUCH_Y+    | 22 | N.C.       |

## 4

## DIP S/W Information



| No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | Car Model    |
|-------|-------|-------|-------|-------|-------|--------------|
| OFF   | OFF   | OFF   | OFF   | OFF   | OFF   | Lexus RX     |
| OFF   | OFF   | OFF   | OFF   | OFF   | ON    | Lexus LX     |
| OFF   | OFF   | OFF   | OFF   | ON    | OFF   | Lexus RX200T |
| OFF   | OFF   | OFF   | OFF   | ON    | ON    | TOYOTA LC200 |
| OFF   | OFF   | OFF   | ON    | OFF   | OFF   | Lexus LX570  |
| OFF   | OFF   | OFF   | ON    | OFF   | ON    | Lexus ES350  |

\* RX200T = RX model small monitor

\* LC200 = TOYOTA LAND CRUISER 200

\* TOUCH IN/OUT BOARD IS OPTIONAL PART

# 5

## Components



ROIK-LX BOARD



Power/ CAN Cable



Universal Cable



AV Cable



GVIF In/Out Cable



Speaker



SD Card



GPS Antenna  
(5M)



Key Pad



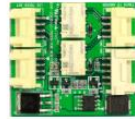
Wifi/BT Antenna



MIC

# 6

## Touch Components **Option (LC200 Touch In/Out)**



LX-TOUCH



TOUCH-to-ANDROID



TOUCH-SUB



TOUCH-OUT (4pin)



TOUCH-IN (4pin)



FFC Cable (4pin)



# 7

## Touch Components **Option (LX570 Touch In/Out)**



LX-TOUCH



TOUCH-to-ANDROID



TOUCH-SUB



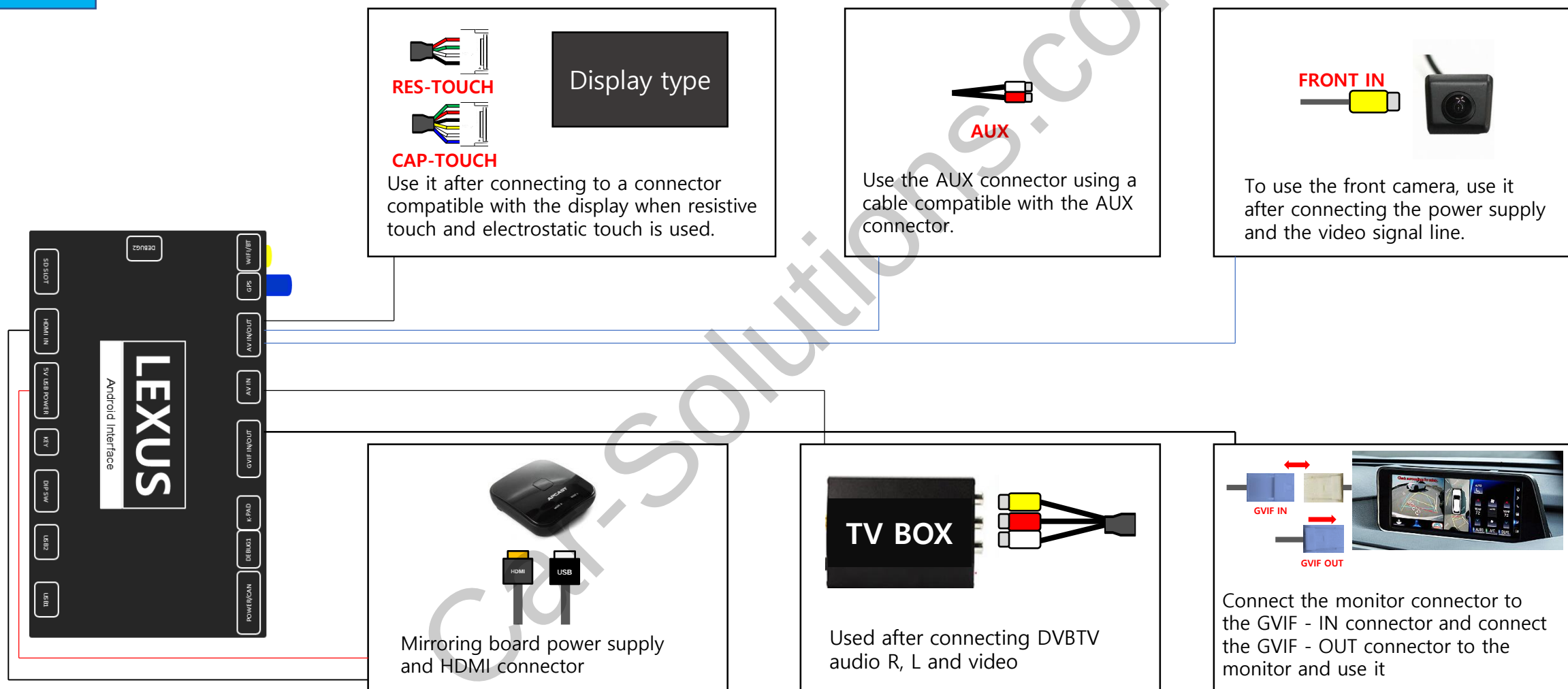
TOUCH-OUT (8pin)

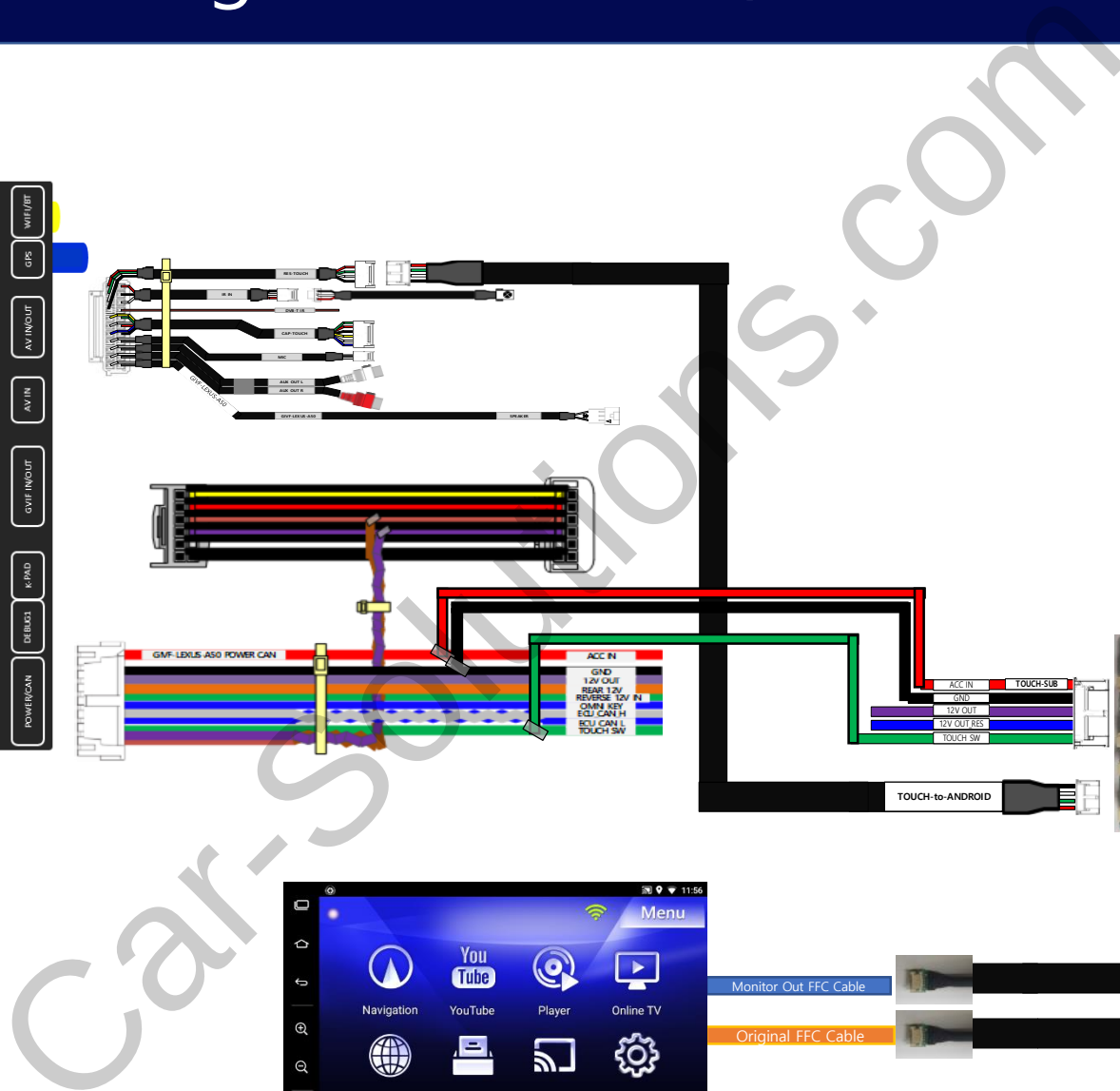


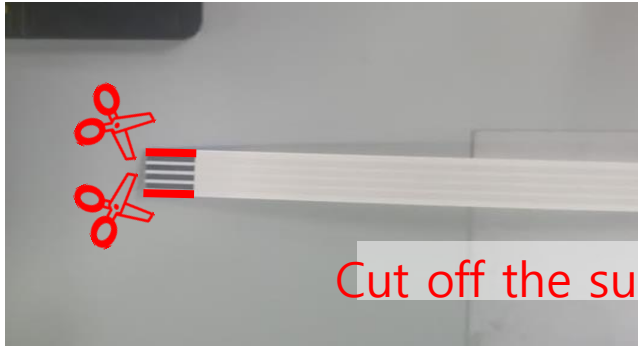
TOUCH-IN (8pin)



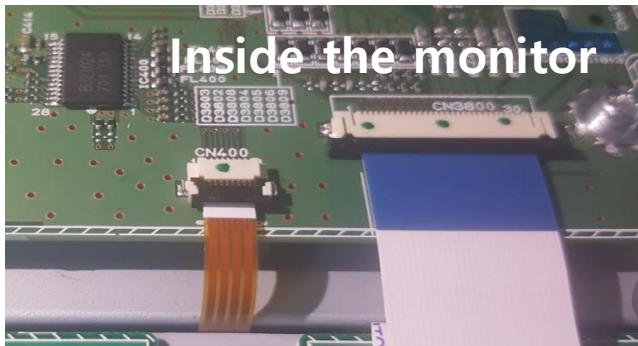
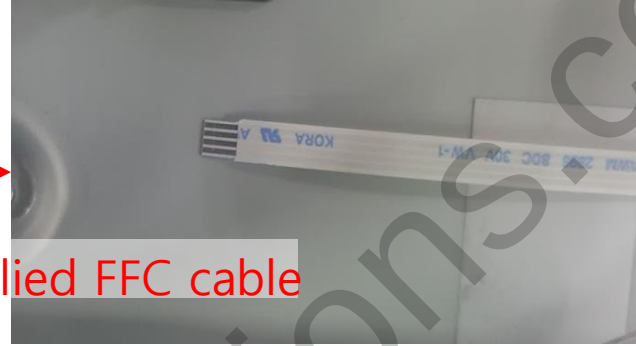
FFC Cable (8pin)



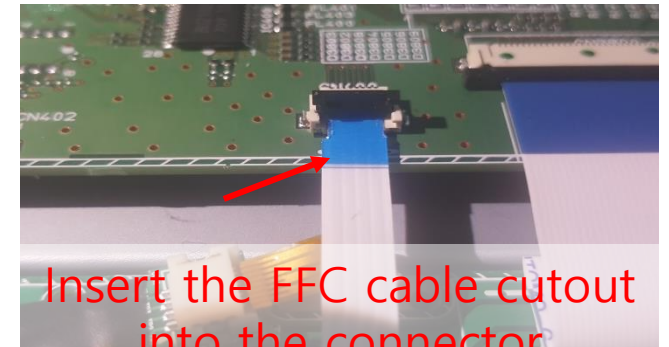




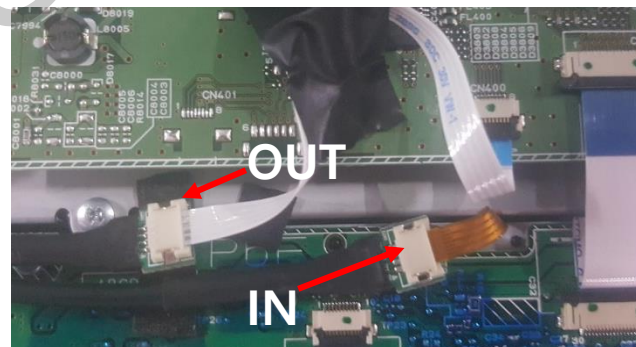
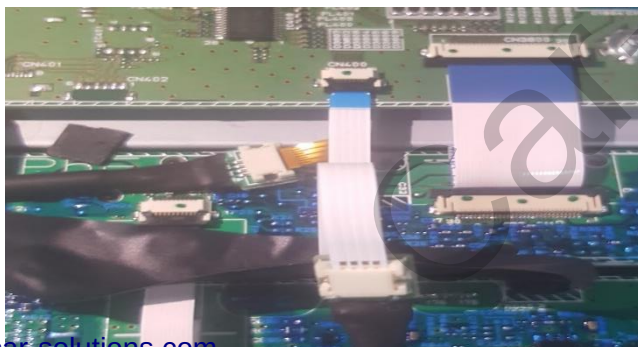
Cut off the supplied FFC cable



Inside the monitor



Insert the FFC cable cutout into the connector

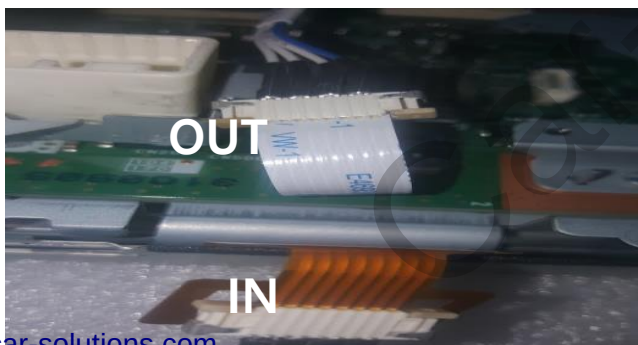
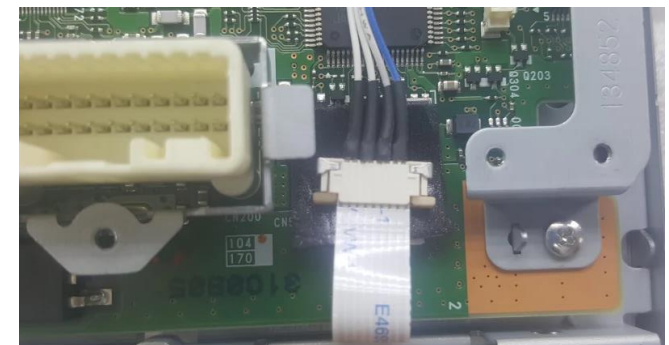
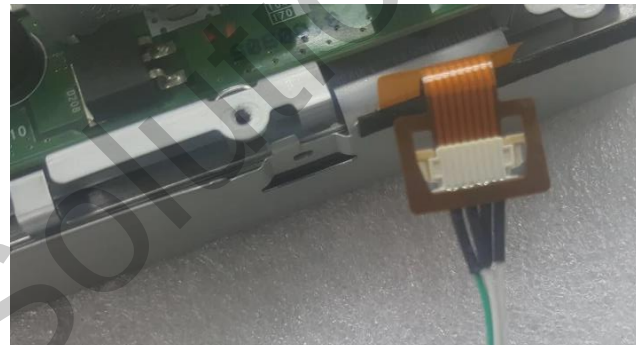
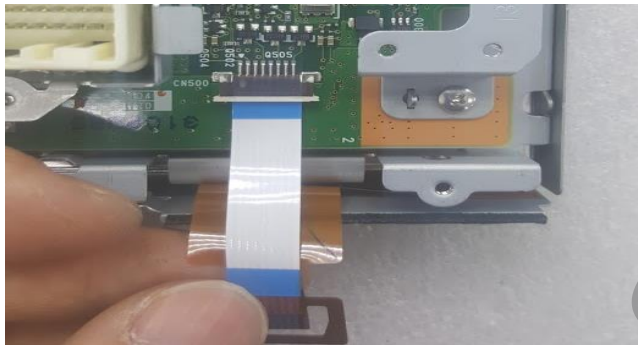
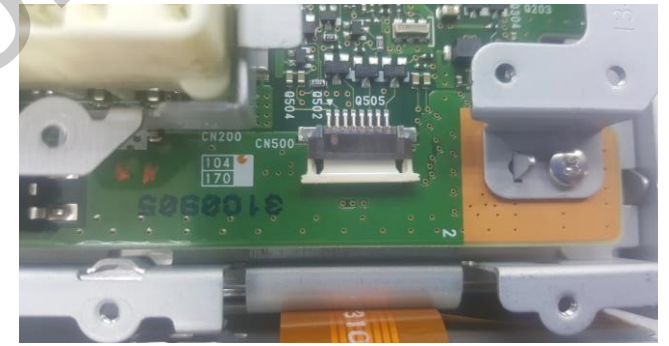
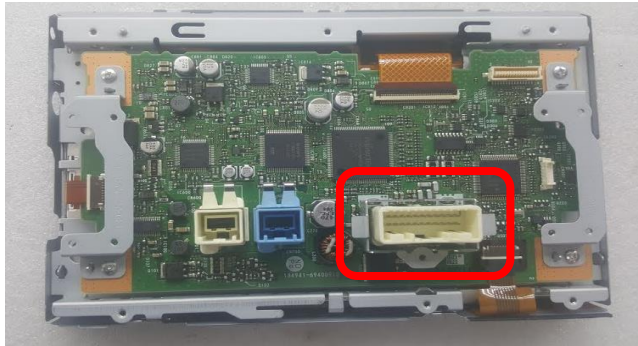


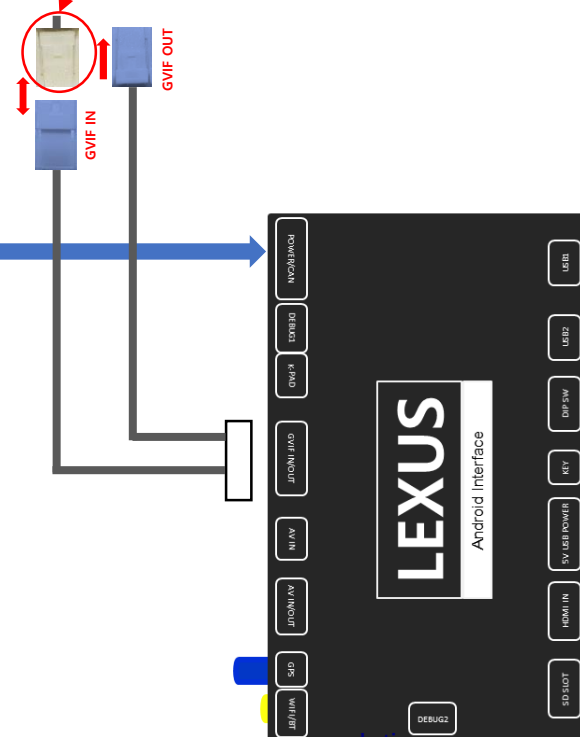
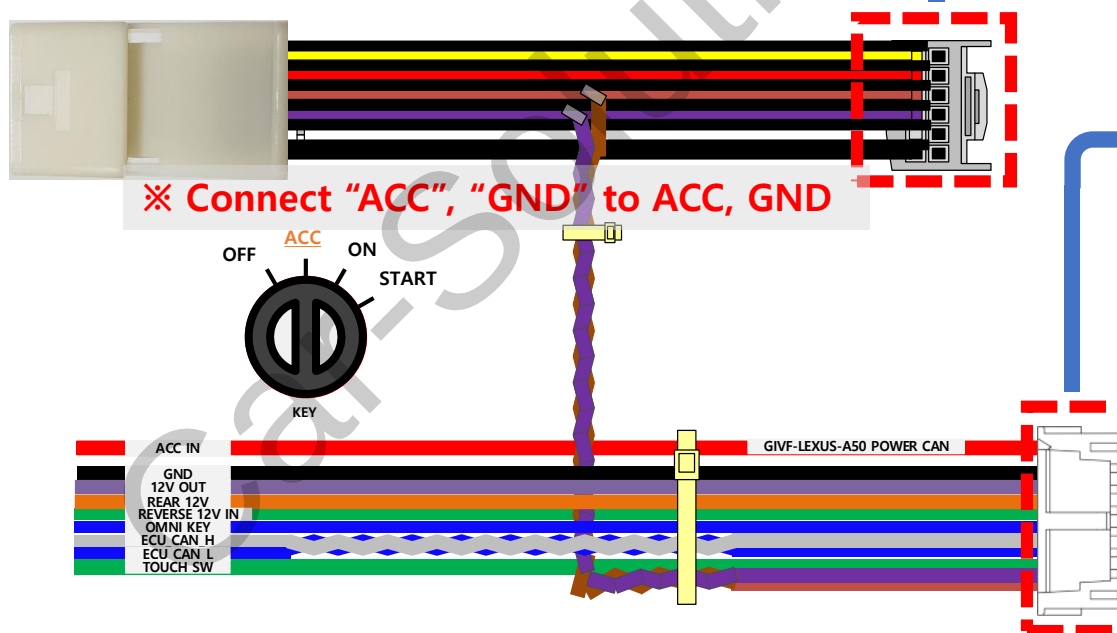
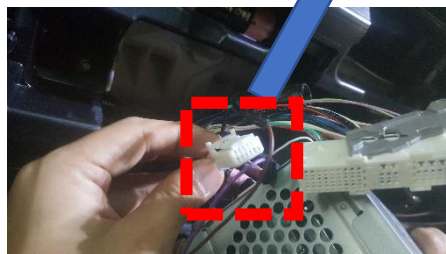
OUT

IN



# Monitor FFC Setting – LX570

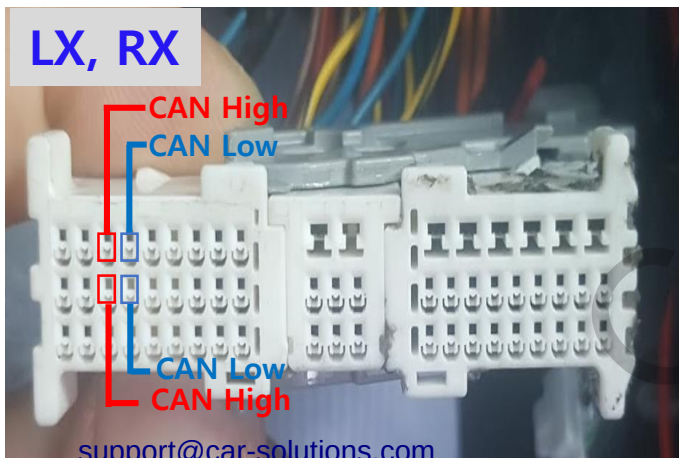




# Connect CAN/Power connector



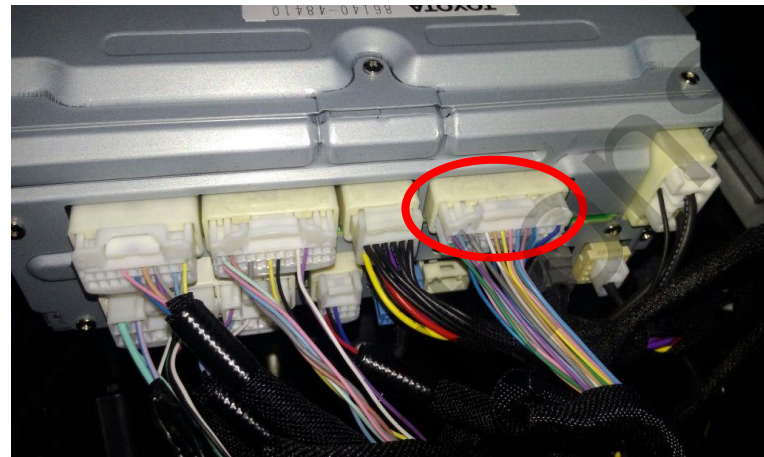
- Remove original connector.
- Connect supplied connector to audio and original connector.



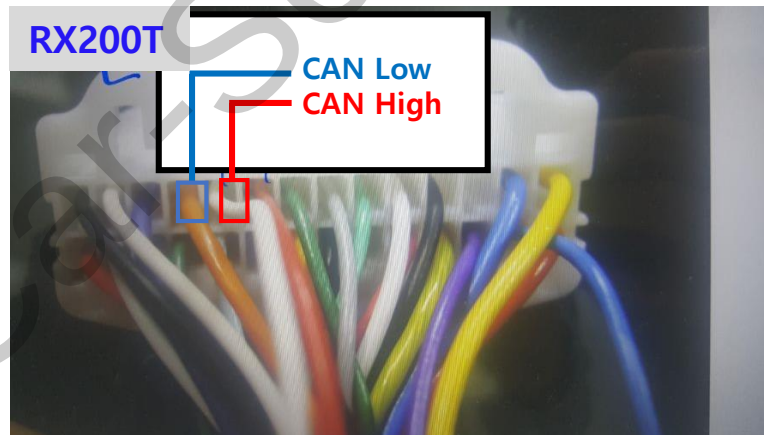
- Connect 'CAN High/Low" to the original connector from supplied connector

Depending on the type of vehicle, the position of "can" may be different.





- Remove original connector.
- Connect supplied connector to audio and original connector.



- Connect 'CAN High/Low" to the original connector from supplied connector



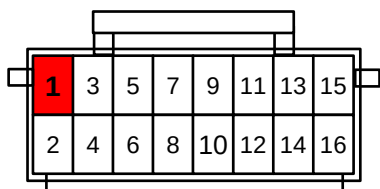
# Connect CAN/Power connector – LX570



- Connect supplied connector to empty connector on HeadUnit
- Connect 'CAN High/Low' to the original connector from supplied connector



- Connect supplied connector to connector on HeadUnit
- Connect 'CAN High/Low' to the original connector from supplied connector



✗ Please connect power of interface to ACC.

✗ If connect to BAT. There is case of that Rear camera would be not working.



- Remove white connector on behind of monitor.
- Cut plastic of white connector and supplied connector
- Connect white connector to supplied connector and supplied connector to behind of monitor.

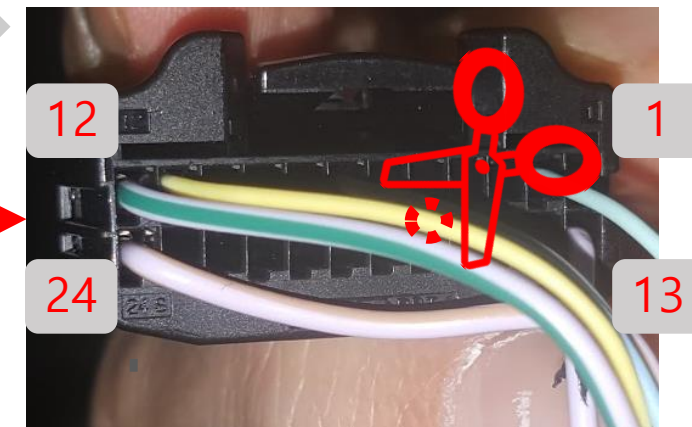
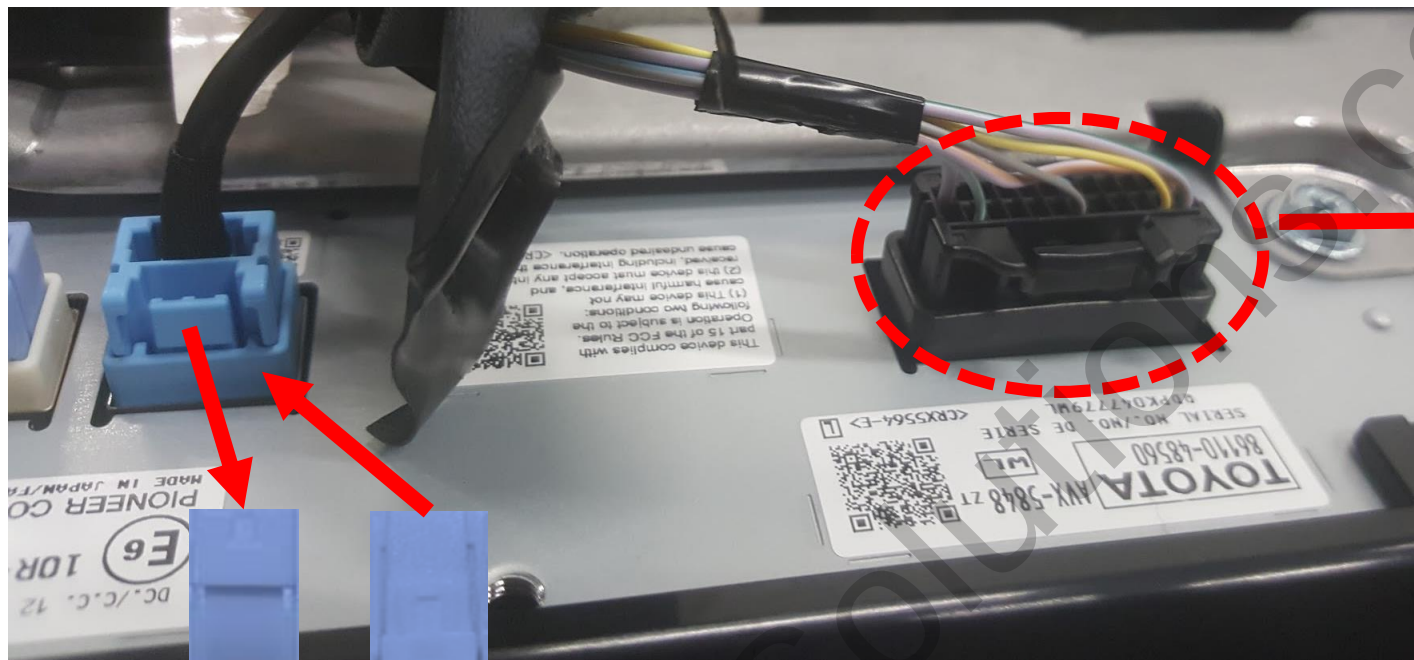
| Car Model    | Gvif In/Out connector Color behind Monitor |
|--------------|--------------------------------------------|
| Lexus RX     | White                                      |
| Lexus LX     | White                                      |
| Lexus RX200T | Blue                                       |
| Toyota LC200 | White                                      |
| Lexus LX570  | Blue                                       |
| Lexus ES350  | Blue                                       |

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※ Different In/Out GVIF according to Car Model



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Cut wiring number 11.



### ✖ RX200T

- Remove blue connector on behind of monitor.
- Cut plastic of blue connector and supplied connector
- Connect blue connector to supplied connector and supplied connector to behind of monitor.



## LX, RX, ES300



| no | Button | Press             | Mode | Function             |
|----|--------|-------------------|------|----------------------|
| 1  | MENU   | Short Press       | Roik | To Oem Screen        |
| 2  | MAP    | Short Press       | Roik | To Oem Screen        |
|    |        | Long Press (2sec) | Oem  | To Roik Screen       |
| 3  | BACK   | Short Press       | Roik | Back key for Android |
| 4  | UP     | Short Press       | Roik | Seek up down         |
| 5  | DOWN   | Short Press       |      |                      |
| 6  | JOG    | Short Press       | Roik | Mouse                |

## LC200



| no | Button | Press             | Mode | Function       |
|----|--------|-------------------|------|----------------|
| 1  | HOME   | Short Press       | Roik | To Oem Screen  |
| 2  | NAV    | Short Press       | Roik | To Oem Screen  |
|    |        | Long Press (2sec) | Oem  | To Roik Screen |
| 3  | INFO   | Short Press       | Roik | To Oem Screen  |
| 4  | AUDIO  | Short Press       | Roik |                |
| 5  | PHONE  | Short Press       | Roik |                |
| 6  | SETUP  | Short Press       | Roik |                |

## RX200T



| no | Button | Press             | Mode | Function       |
|----|--------|-------------------|------|----------------|
| 1  | AUDIO  | Short Press       | Roik | To Oem Screen  |
| 2  | MENU   | Short Press       | Roik | To Oem Screen  |
| 3  | BACK   | Long Press (2sec) | Oem  | To Roik Screen |
| 4  | DIAL   | Short Press       | Roik | Mouse          |

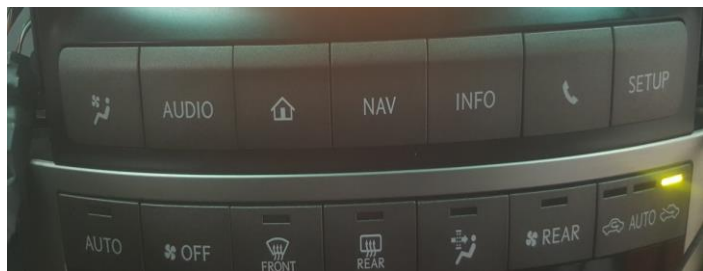
## RX200T :

Turn the wheel to the right quickly and the buzzer sounds.

Activate drag function, press again to cancel



## LX570

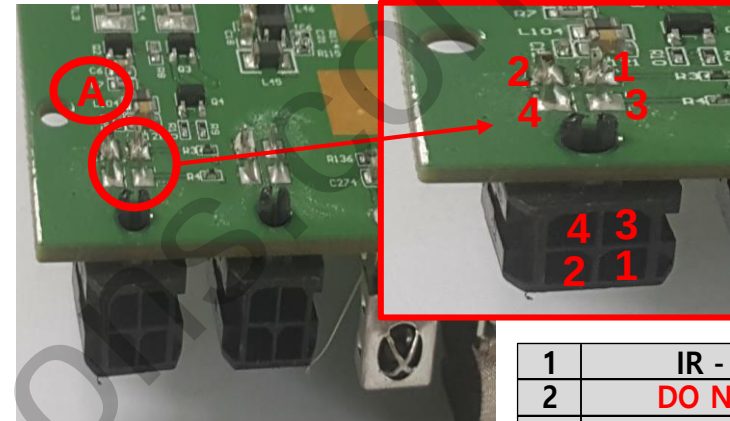


| no | Button  | Press             | Mode | Function       |
|----|---------|-------------------|------|----------------|
| 1  | CLIMATE | Short Press       | Roik | To Oem Screen  |
| 2  | AUDIO   | Short Press       | Roik | To Oem Screen  |
| 3  | HOME    | Short Press       | Roik | To Oem Screen  |
| 4  | NAV     | Short Press       | Roik | To Oem Screen  |
|    |         | Long Press (2sec) | Oem  | To Roik Screen |
|    |         | Long Press (2sec) | Hdmi | To Roik Screen |
| 5  | INFO    | Short Press       | Roik | To Oem Screen  |
| 6  | PHONE   | Short Press       | Roik | To Oem Screen  |
| 7  | SETUP   | Short Press       | Roik | To Oem Screen  |

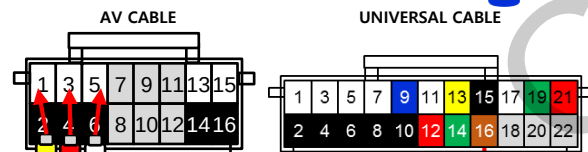
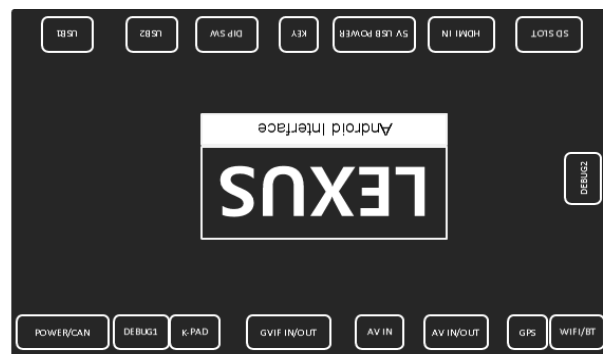
# DVB-T Connection Diagram for AV Input



Open the cover of DVB-T.  
Connect 'DVBT-IR' provided to 'A' on picture



|   |             |
|---|-------------|
| 1 | IR - DVB-T  |
| 2 | DO NOT USE. |
| 3 | DO NOT USE. |
| 4 | DO NOT USE. |



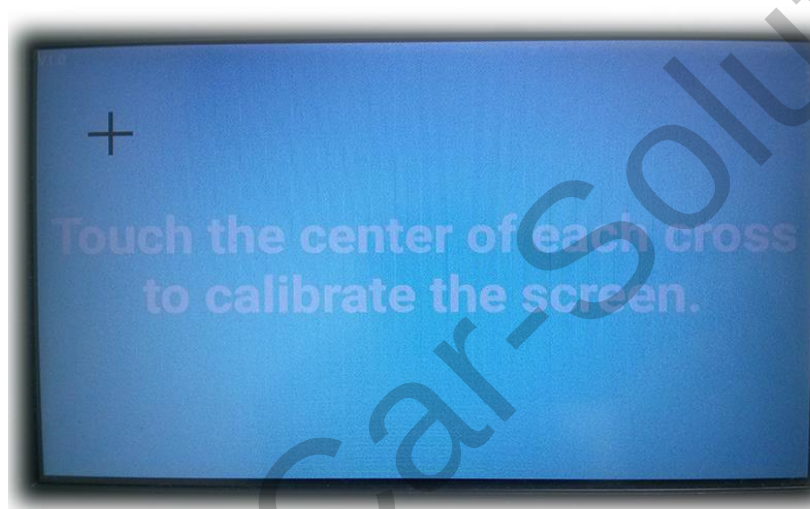


|   |            |   |                             |
|---|------------|---|-----------------------------|
| ① | Navigation | ⑥ | File Manager                |
| ② | YouTube    | ⑦ | HDMI Screen (for Interface) |
| ③ | Player     | ⑧ | Setting                     |
| ④ | Online TV  | ⑨ | Wifi setting                |
| ⑤ | Internet   | ⑩ | Apps list                   |

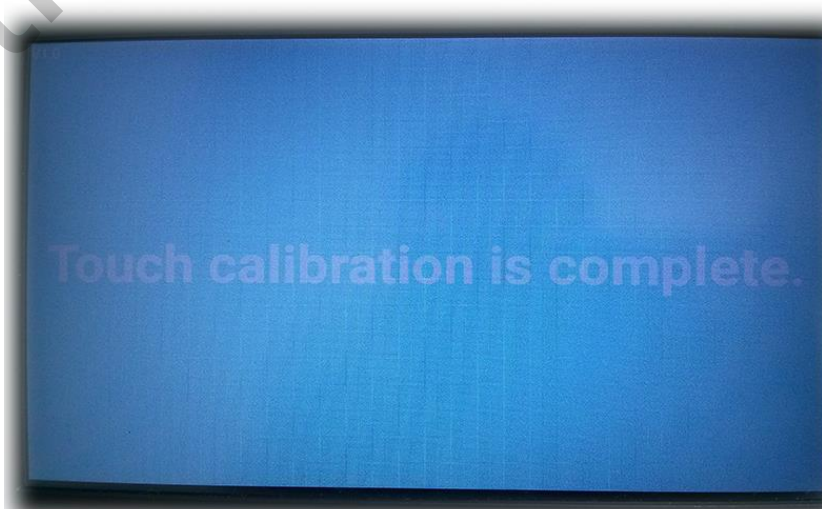
# Calibration – Resistive touch



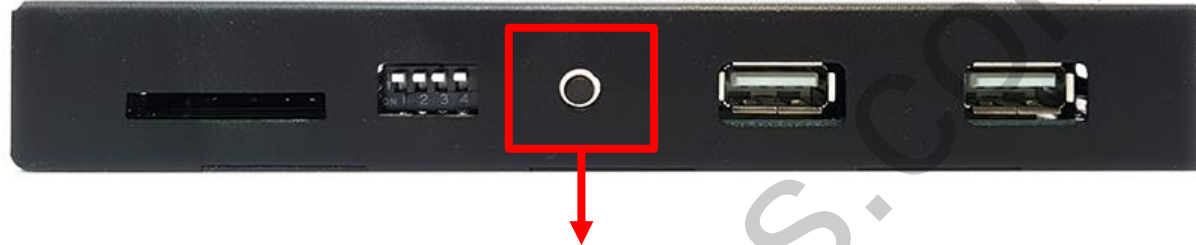
Push button 2~3 sec after booting



Calibration mode



After calibration, push screen few second



Copy 'system\_roik\_lexus' folder to SD Card root and insert to GPS.

Push hold this button and turn on (re-connect power cable), it will start upgrade

\*'/sdcard/system\_roik\_lexus' Folder have 'partmap.txt / boot.img / root.img' files

