2011~2017 BENTLEY Continental / GT INTERFACE

- MODEL : BT-2012-180605
- DATE : 2018.09.14

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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.
   - 1 x LCD 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 Steering wheel in the car via CAN

1. Main Spec.

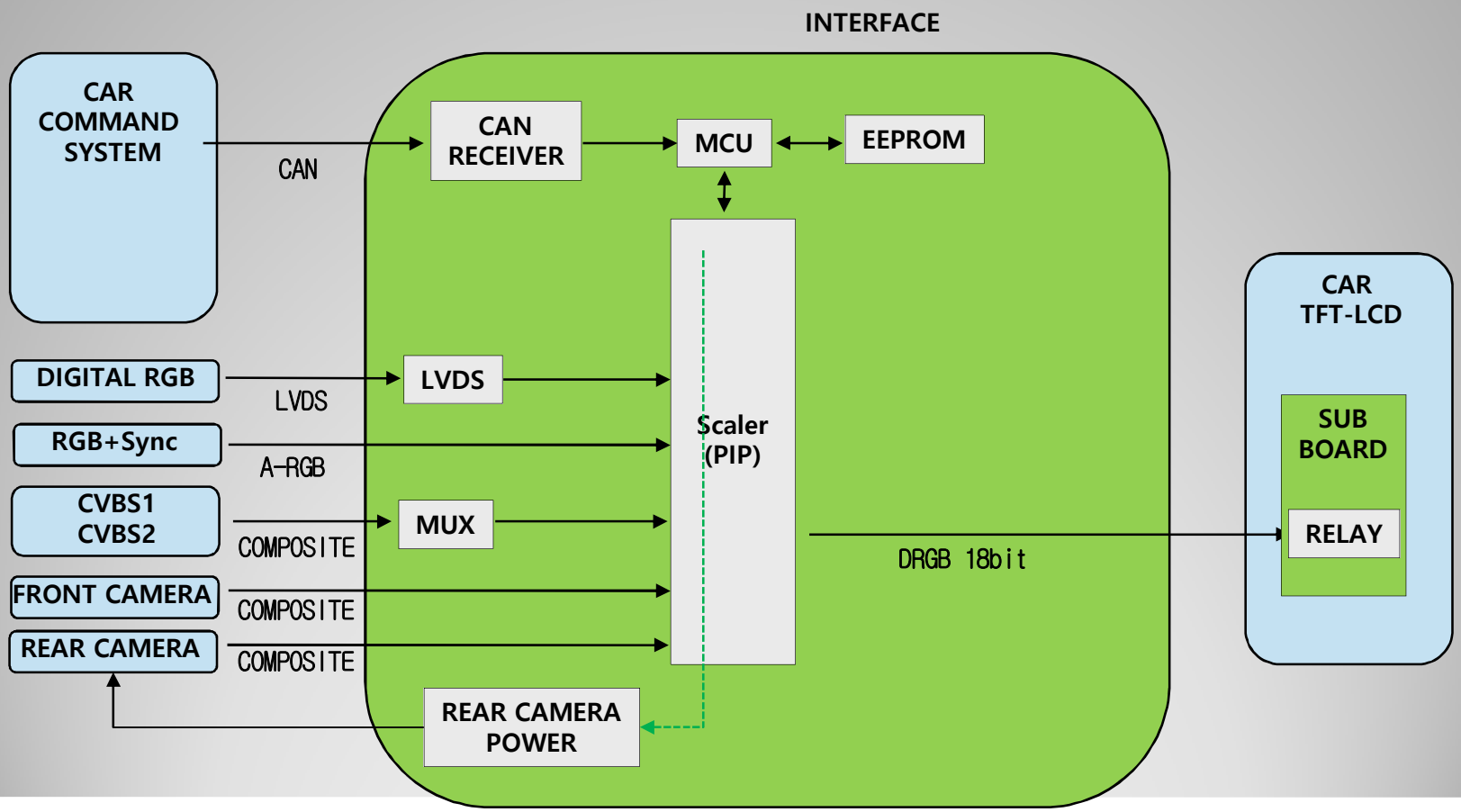
1. Input Spec. (MULTI VIDEO INTERFACE)
   - 2 x A/V Input (External video source).
   - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
   - 1 x CVBS(Front CAMERA) Input. (Front camera source)
   - 1 x Analog RGB Input (Navigation System source)
   - 1 x Digital RGB Input (Navigation System source)
   - 1 x LVDS Input. (Car Command System)

2. Output Spec.
   - 2 x CVBS Output (Video out for Installing Headrest Monitor)
   - 1 x Audio L/R Output.
   - 1 x Vertual 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
   - Possible to select CAR model while switching mode by DIP S/W

2. Block Diagram

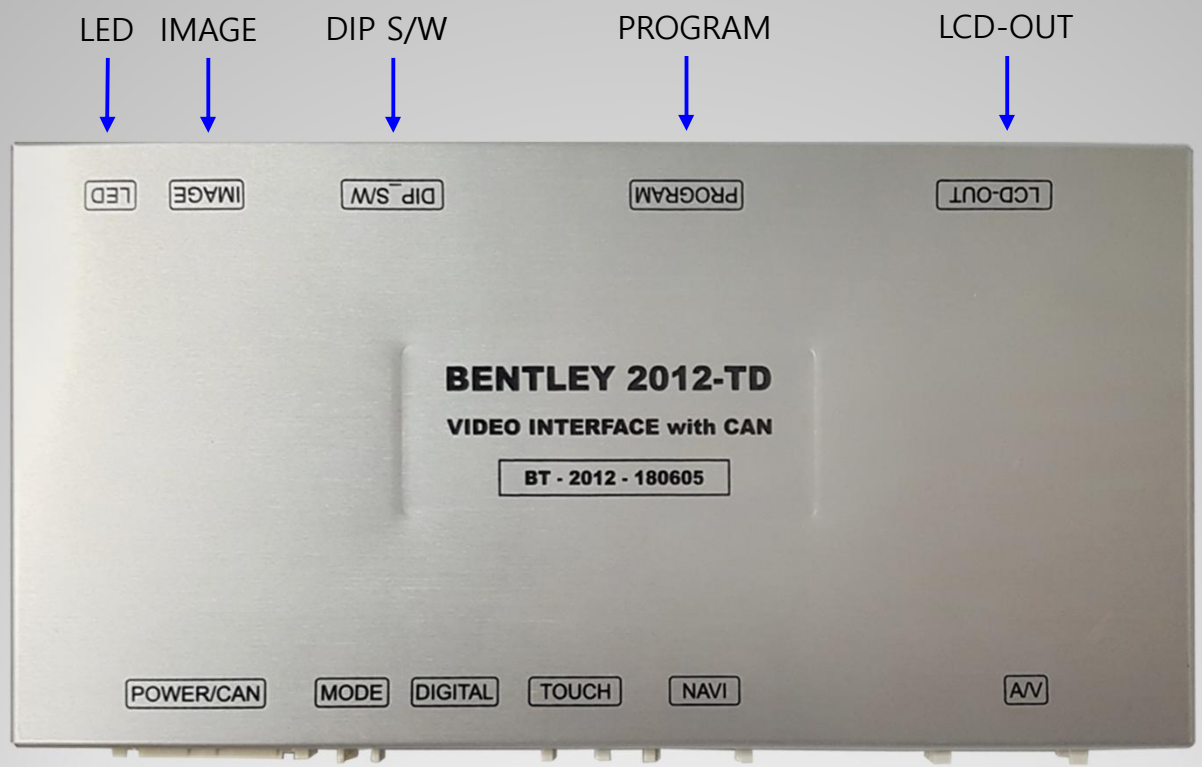


3. Dimension

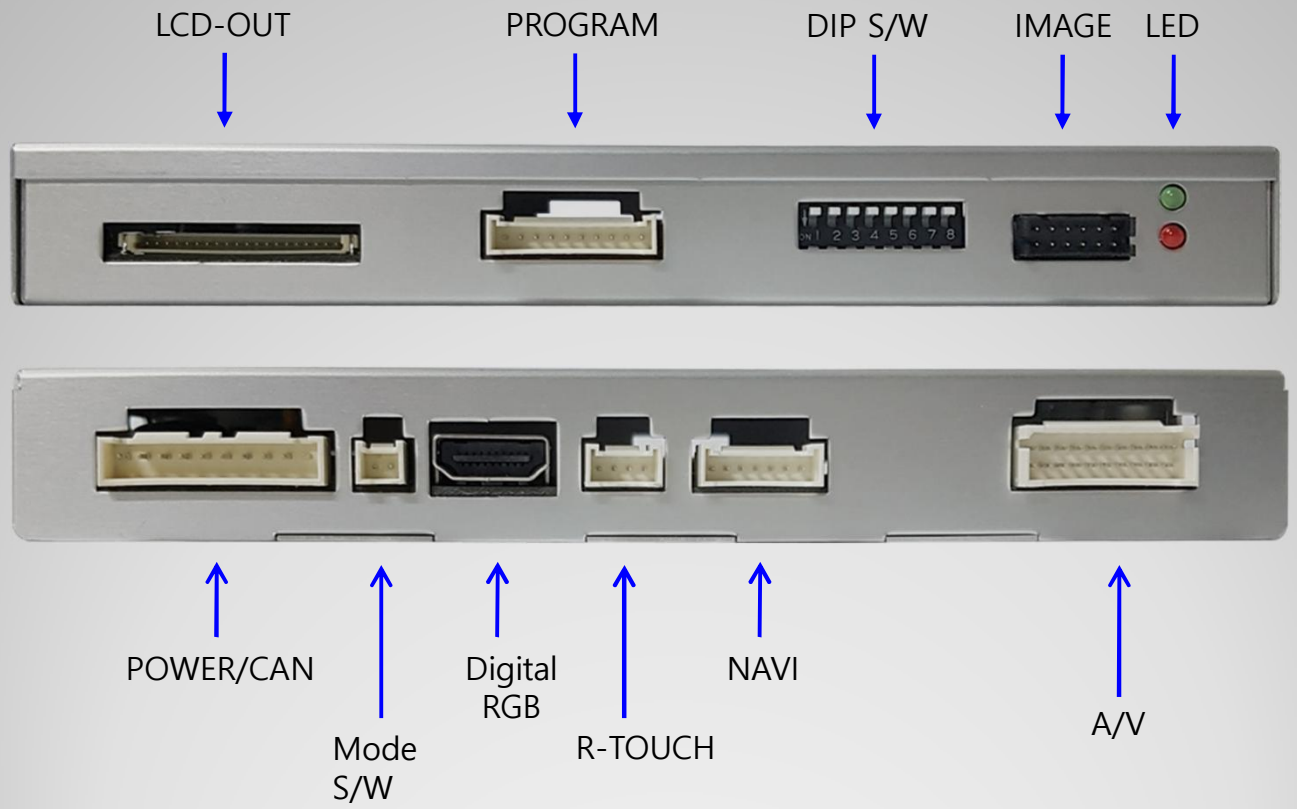
164mm * 83mm * 21mm

* This can change under manufacturer's circumstance

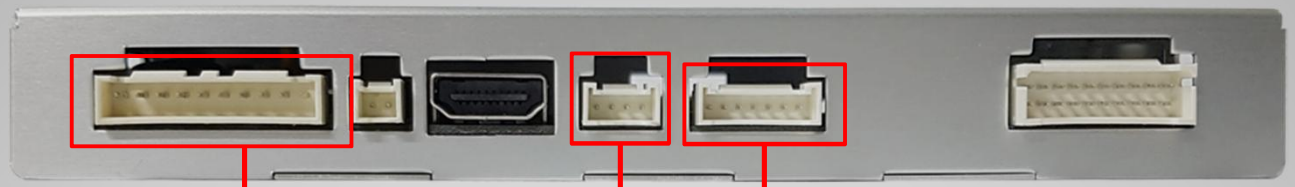
4. External Appearance



4. External Appearance



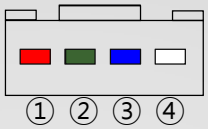
5. Connector Pin Assignment



*POWER Connect

① ACC (Red)
② GND (Black)
③ CAN-H (Yellow)
④ CAN-L (White)
⑤ REAR-POWER (Red)
⑥ N.C
⑦ REAR-CAM DETECT (Brown)
⑧ N.C
⑨ FRONT-CAM DETECT (Blue)
⑩ FRONT-POWER (Red)

*Touch Connect



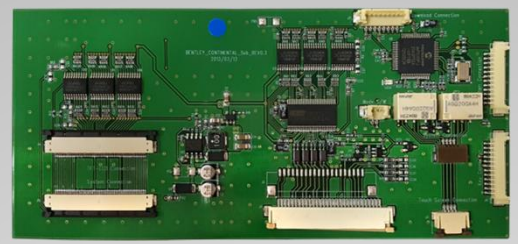
① Y-
② X-
③ Y+
④ X+

*NAVI Connect

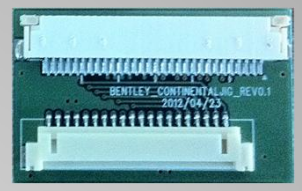
① R DATA (Red)
② G DATA (Green)
③ B DATA (Blue)
④ SYNC (White)
⑤ GND (Black)
⑥ DVB-T-IR (Green)
⑦ DVD-IR (Orange)

6. Product Composition

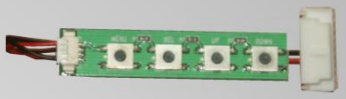
Interface 1 EA



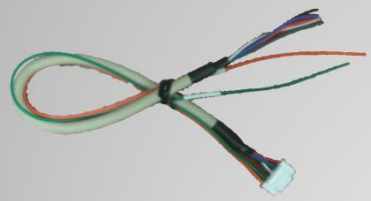
SUB Board 1 EA



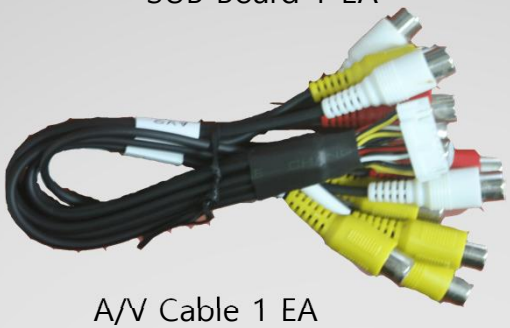
JIG Board 1 EA



OSD Board 1 EA

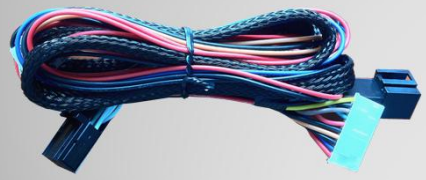


RGB Navi Cable 1 EA



A/V Cable 1 EA

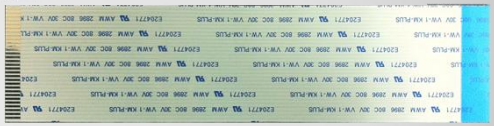
Touch FPC Cable(100mm) 2 EA



Power Cable 1 EA

LVDS Cable(800mm) 1 EA

(100mm)



(130mm)

Mode S/W 1 EA

Mode Cable 1 EA

(150mm)

LVDS FPC Cable 3 EA

7. DIP S/W Setting

*** ON : DOWN , OFF : UP**

PIN	FUNCTION	DIP S/W Selection
1	NAVI INPUT MUTE	ON : Skipping NAVI Mode OFF : NAVI Display
2	AV1 MUTE	ON : Skipping AV1 OFF : AV1 Display
3	AV2 MUTE	ON : Skipping AV2 OFF : AV2 Display
4	N.C	
5	N.C	
6	CAR type SEL	Right Picture
7		
8		

*** DIP S/W Example**

BENTLEY 2011~2017

8. Mode Change

OEM BUTTON CONTROL

Return OEM dispaly

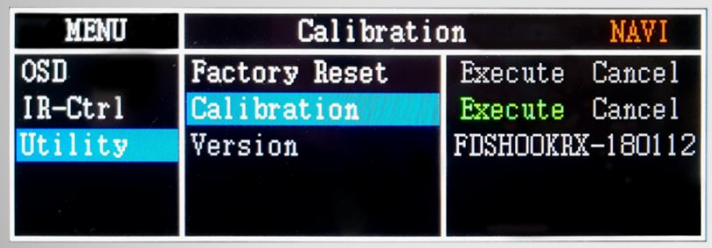
mode change (Long press 1 second)

9. Touch Control

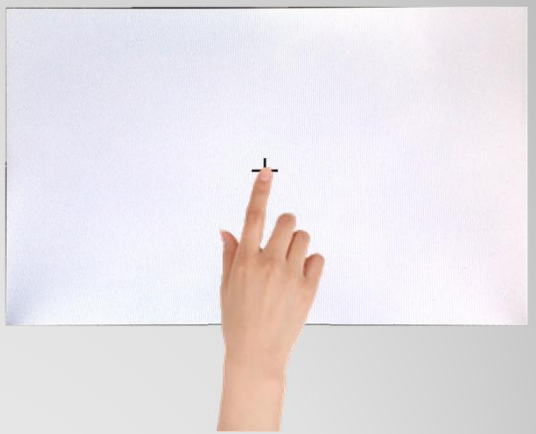
Touch control - Calibration

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



OSD menu -> Utility -> Calibration



+ Touch according to the shape coordinates.

9. Touch Control

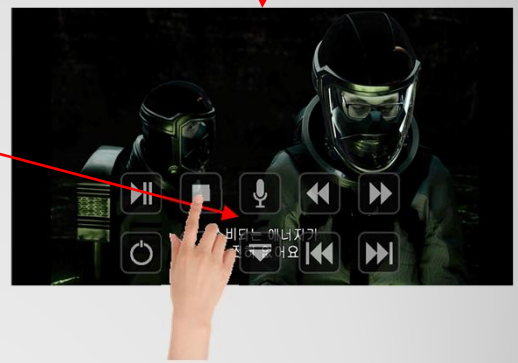
DVB-T/DVD Control

DVB-T

DVD

Press Touch(Anywhere)

Press Icon

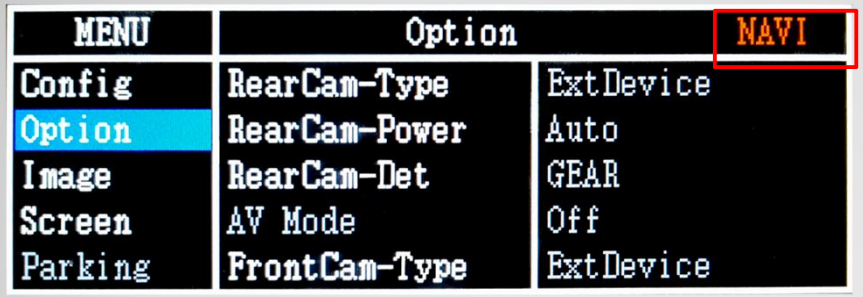


10. OSD(On Screen Display) Control

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



First Menu Second Menu Third Menu

10. OSD(On Screen Display) Control

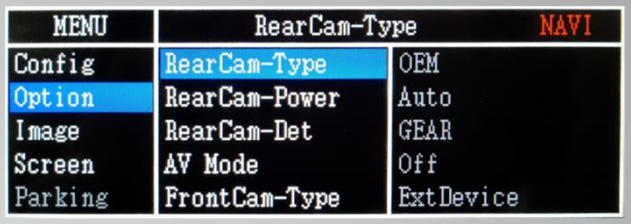
OSD - Config Menu

First Menu	Second Menu	Third Menu	Description
Config	NAVI-RGB	DIGTAL-INAVI :	Setting the Connected NAVI Model
	DVB-T(DMB)	ELT_DVBT20 :	Setting the Connected DVB-T Model
	DVD	ELT_980XU Slim :	Setting the Connected DVD Model
	Reset	Execute	Reset to default value of Config menu

10. OSD(On Screen Display) Control

OSD - Option Menu

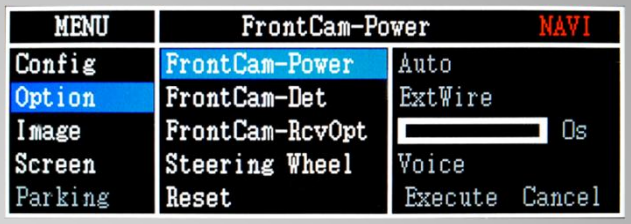
First Menu	Second Menu	Third Menu	Description
Option	RearCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	RearCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	RearCam-Det	GEAR	Detected by CAN
		WIRE	Detected by Rear-Det Wire
	FrontCam-Type	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
	FrontCam-Det	CAN	Detected by CAN
		WIRE	Detected by Front-Det Wire



10. OSD(On Screen Display) Control

OSD - Option Menu

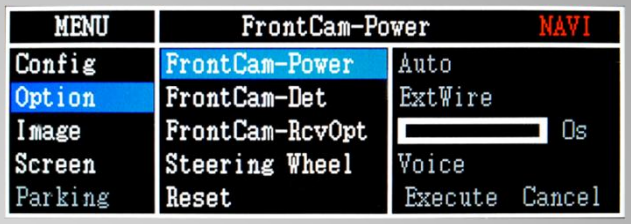
First Menu	Second Menu	Third Menu	Description
Option	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature
	AV OUT	AV1	In the OEM, NAVI, AV1, FRONT, and REAR modes, the output of AV OUT is set to AV1.
		AV2	In the OEM, NAVI, AV2, FRONT, and REAR modes, the output of AV OUT is set to AV2.
		USER	In the OEM, NAVI, FRONT, and REAR modes, output the output of AV OUT to the final screen.
	UI DVB-T (DMB)	ON	DVB-T device control UI output function
		OFF	Disable feature



10. OSD(On Screen Display) Control

OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
Option	UI DVD	ON	DVD device control UI output function
		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

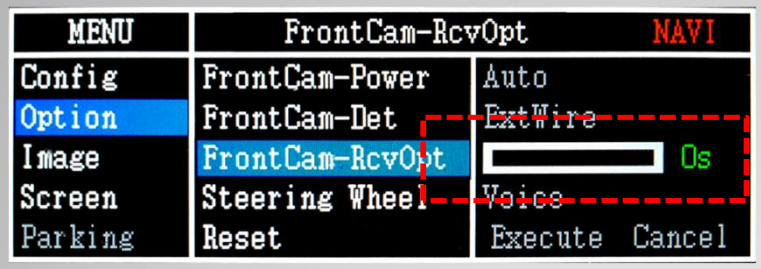


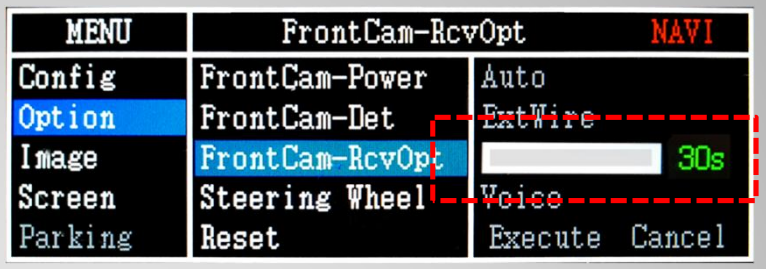
10. OSD(On Screen Display) Control

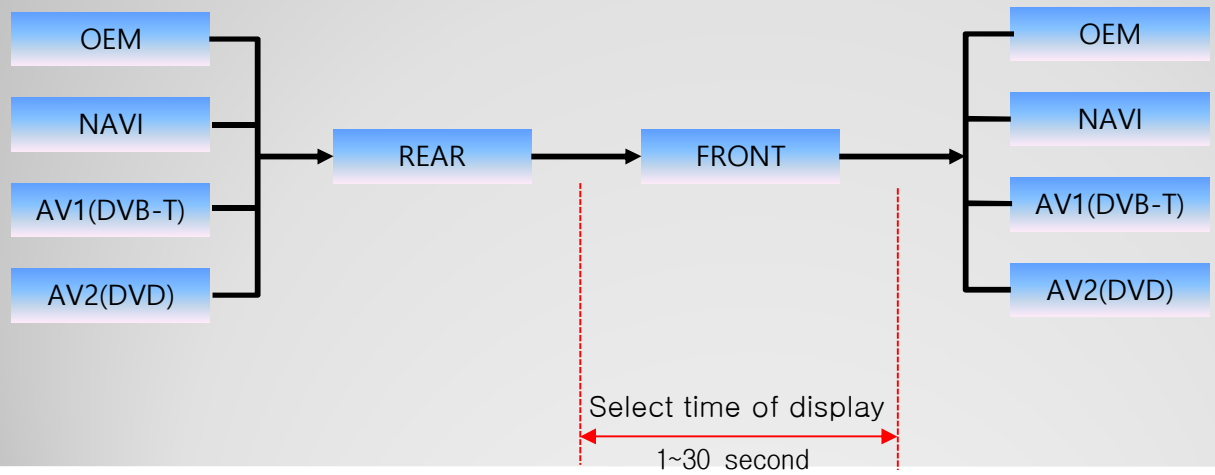
OSD Option -> FrontCam-RcvOpt

Front Camera Auto Mode

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







10. OSD(On Screen Display) Control

OSD Image

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	Execute	Image Menu all Reset

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	Execute	Image Menu all Reset

<< Brightness >>

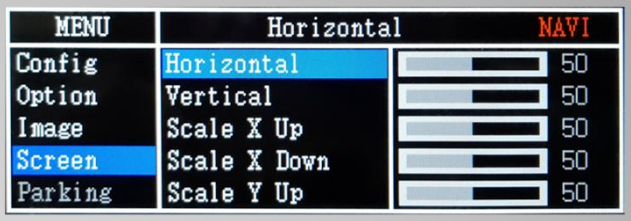
<< Saturation >>

<< Contrast >>

10. OSD(On Screen Display) Control

OSD – Screen Menu

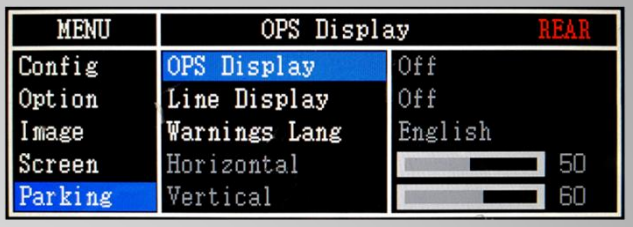
First Menu	Second Menu	Third Menu	Description
Screen	Horizontal		Output screen horizontal movement
	Vertical		Output screen vertical movement
	Scale X Up		Reduce / increase output screen width
	Scale X Down		
	Scale Y Up		Reduce / Increase Output Screen Height
	Scale Y Down		
	Reset		Screen menu all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



10. OSD(On Screen Display) Control

OSD – Parking Menu

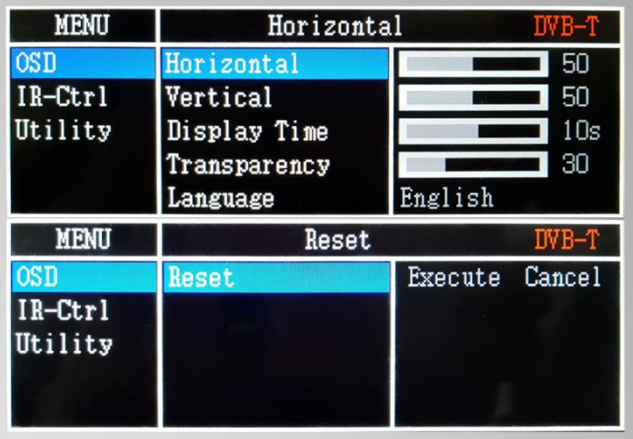
First Menu	Second Menu	Third Menu	Description
Parking	Warnings Lang		Set warning text language
	Reset		Parking menu all reset



10. OSD(On Screen Display) Control

OSD – OSD Menu

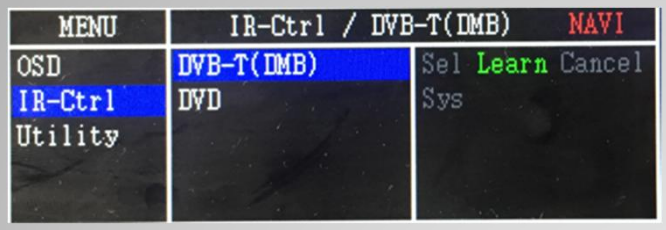
First Menu	Second Menu	Third Menu	Description
OSD	Horizontal	*value*	OSD Menu Horizontal Shift
	Vertical	*value*	OSD menu vertical Shift
	Display Time	*value*	OSD Menu Display Time (in seconds)
	Transparency	*value*	OSD menu transparency
	Language		OSD menu display language
	Reset	Execute	Initialize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



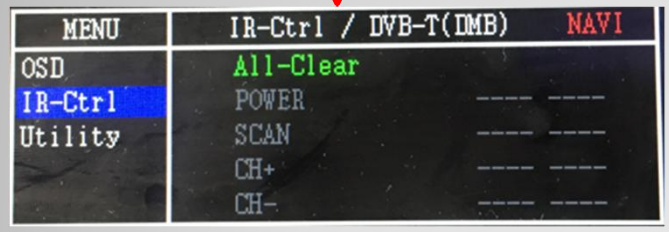
10. OSD(On Screen Display) Control

* IR learning function

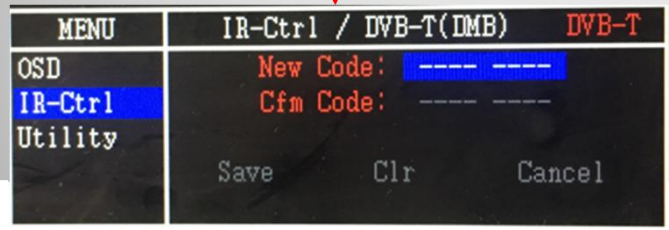
* In order to work with the IR learning function, a separate IR cable is required.



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.

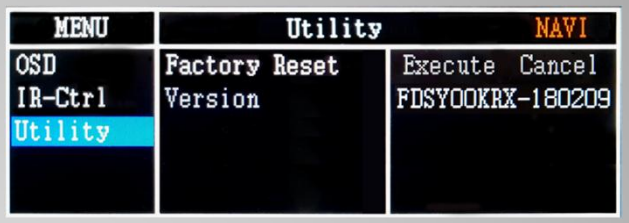


4. Press the remote control button to be used in each ICON once in New Code, press once again in Cfm Code to confirm it is the same and save it.

10. OSD(On Screen Display) Control

OSD – Utility Menu

First Menu	Second Menu	Third Menu	Description
Utility	Factory Reset	Execute	Initialize all settings
	Calibration	Execute	Run Calibration mode
	Version		FDSYOOKRX-180209 (Check for future upgrades)

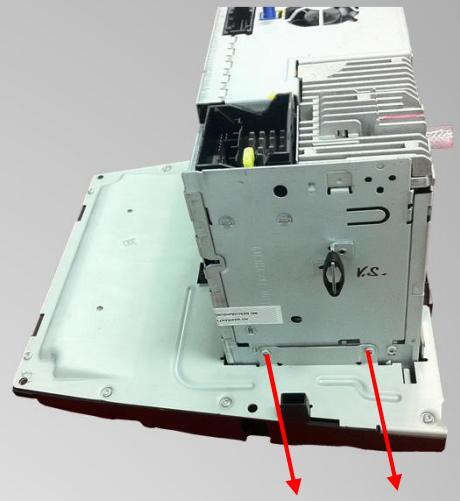


Last Source : FDSYOOKRX-180209

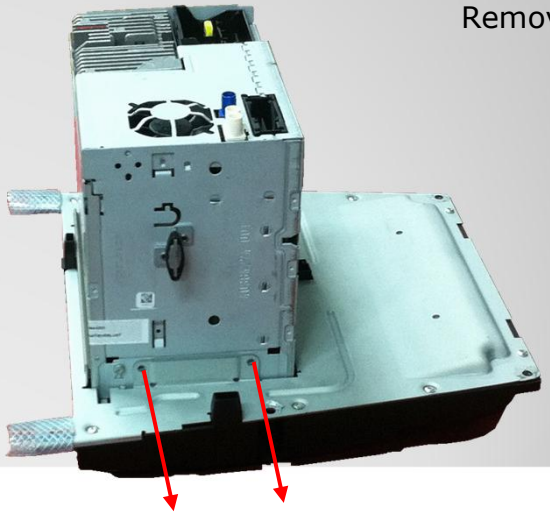
- Software Version
- Software Month
- Software Year
- Special Version
- National : CN=CHINA, KR=KOREA, JP=JAPAN, US=United States
- Hardware Version
- PIP model : S3=Sync3, PP=PIP, LV=LVDS
- Motor model : FD=FORD, BM=BMW, BE=BENZ, MA=MASERATI, LX:LEXUS

11. Install Manual

1. Monitor dismantle



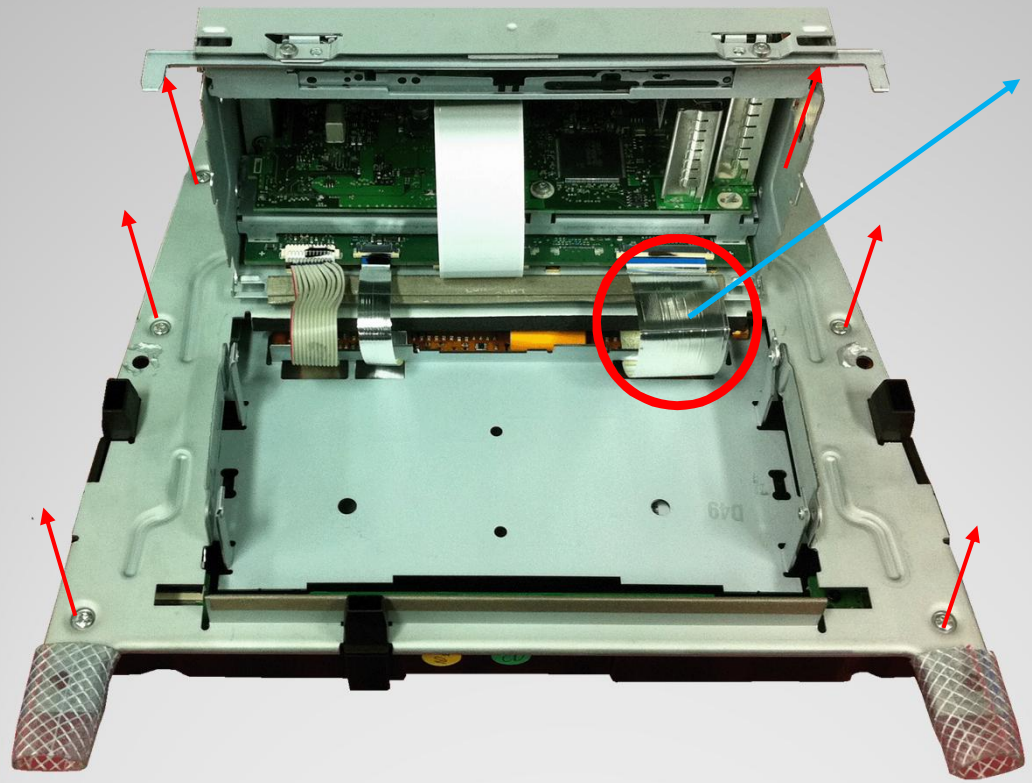
Remove bolts



Remove bolts

11. Install Manual

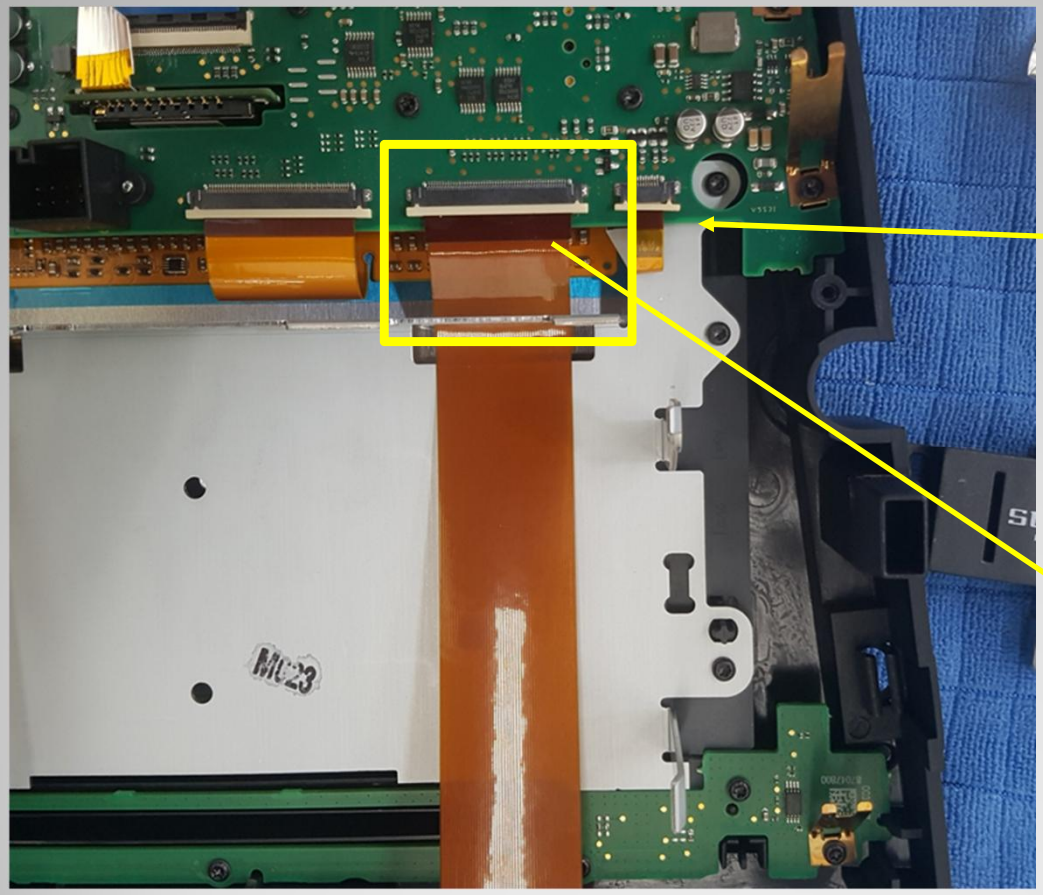
2. Monitor dismantle

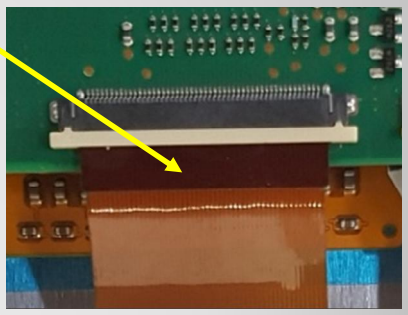


Silver Color FPC Cable
Remove it completely.
Not used.

11. Install Manual

3. LVDS FPC cable connection

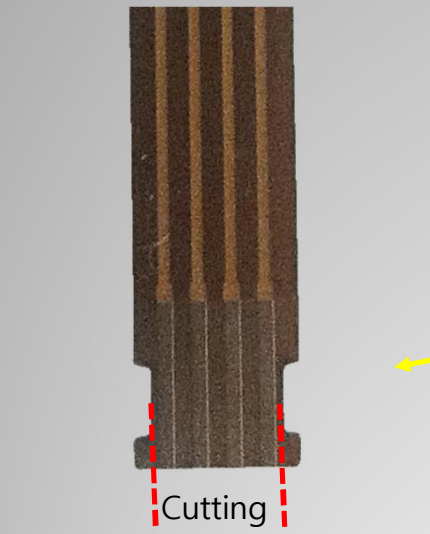


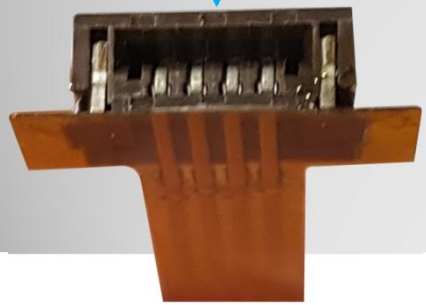


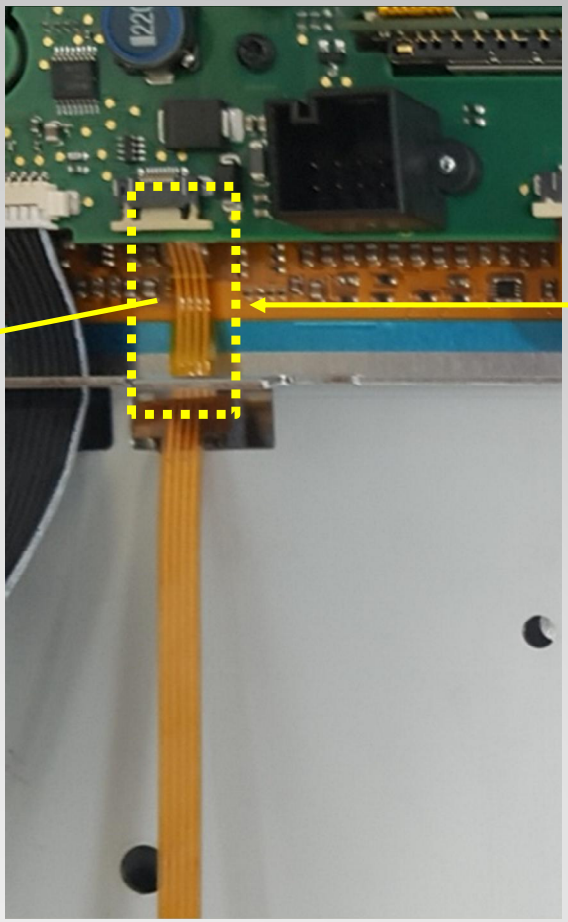
Work to make black visible.

11. Install Manual

4. Touch FPC cable connection

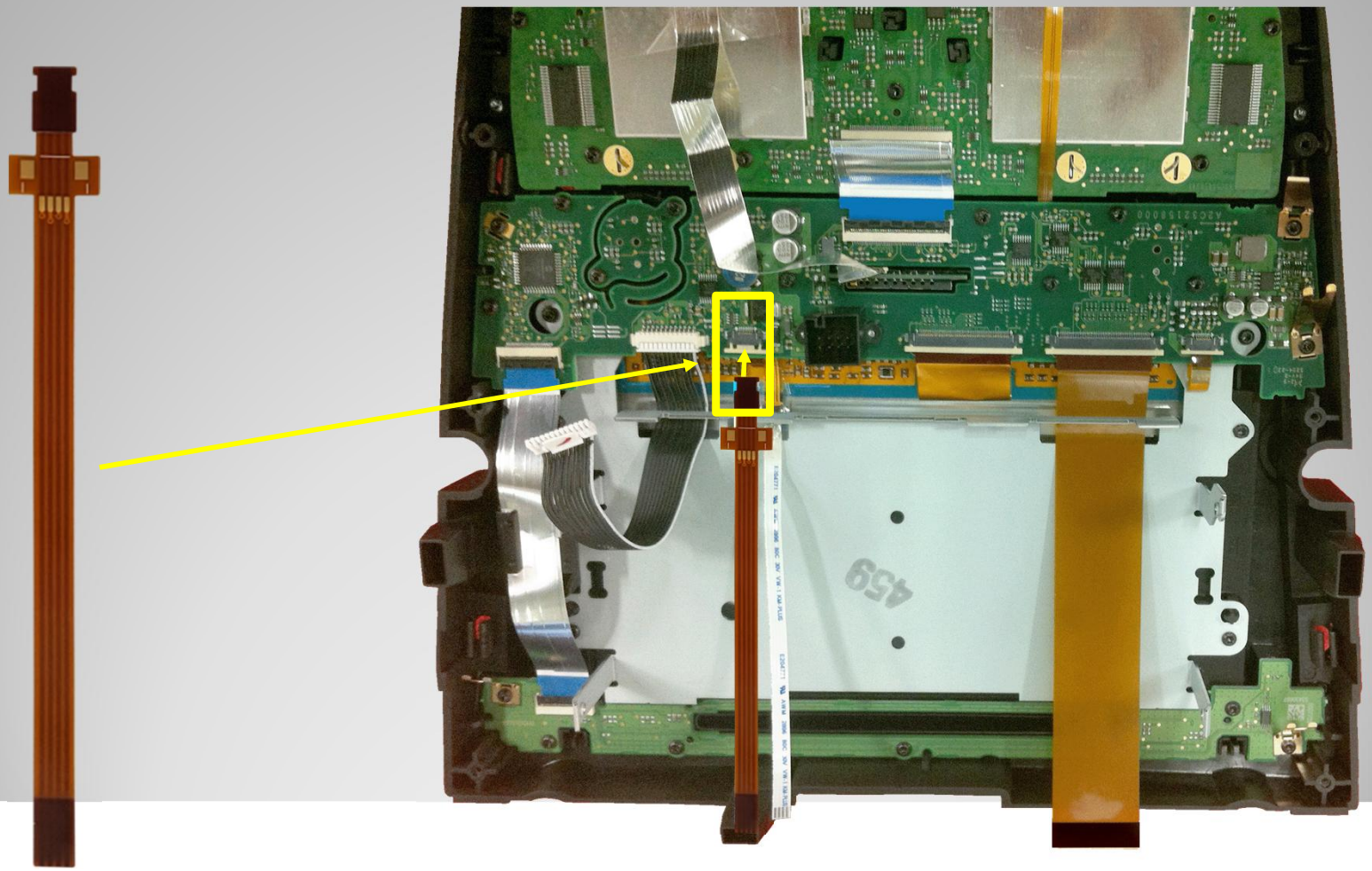






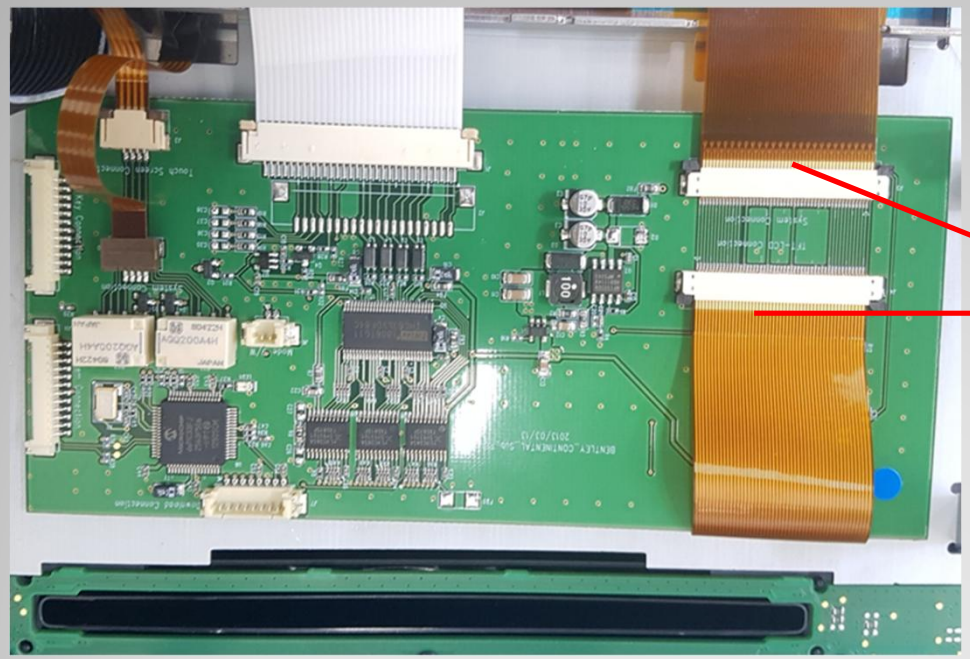
11. Install Manual

5. Touch FPC cable connection



11. Install Manual

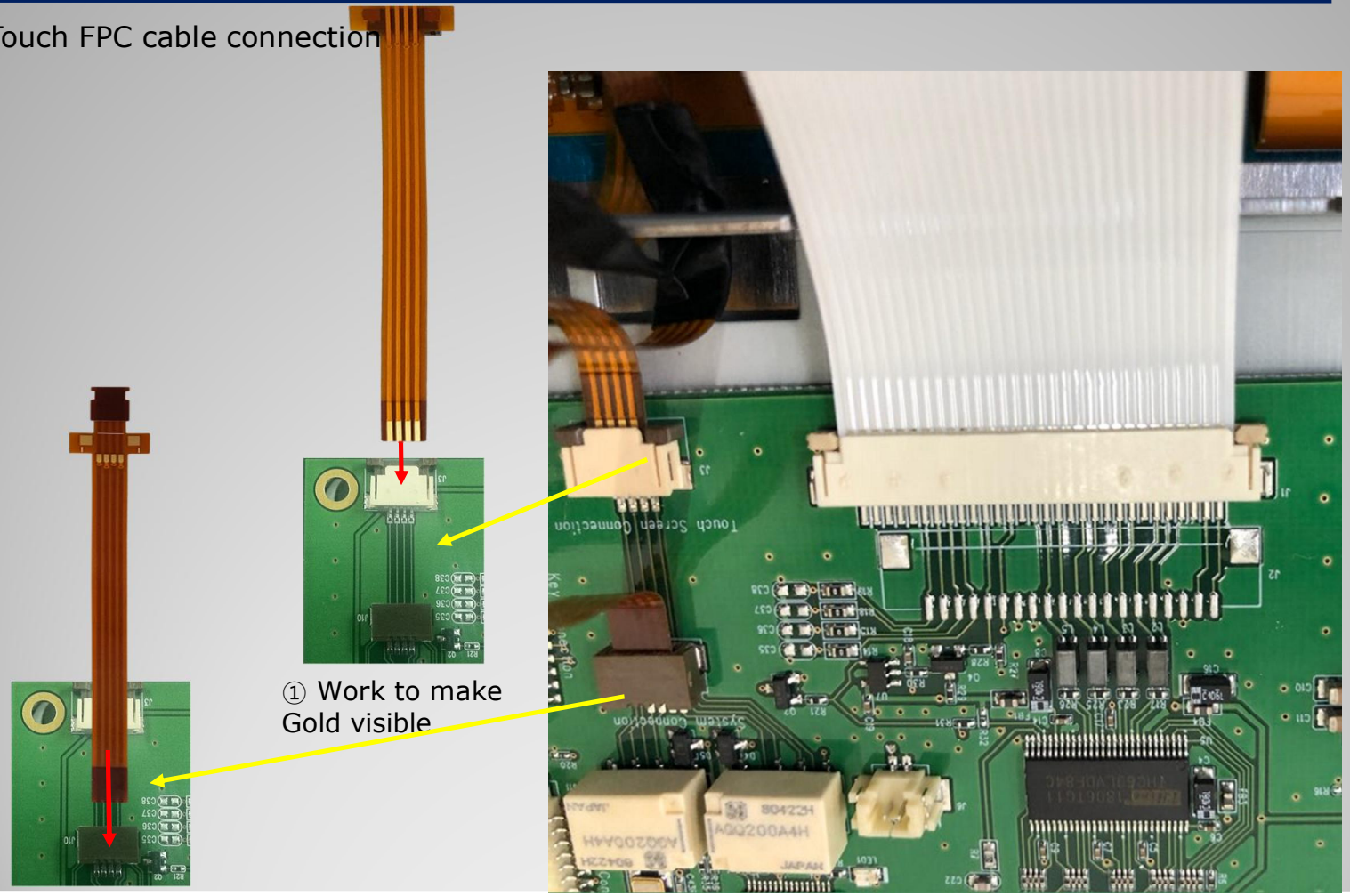
6. LVDS FPC cable connection



Work to make Gold visible

11. Install Manual

7. Touch FPC cable connection

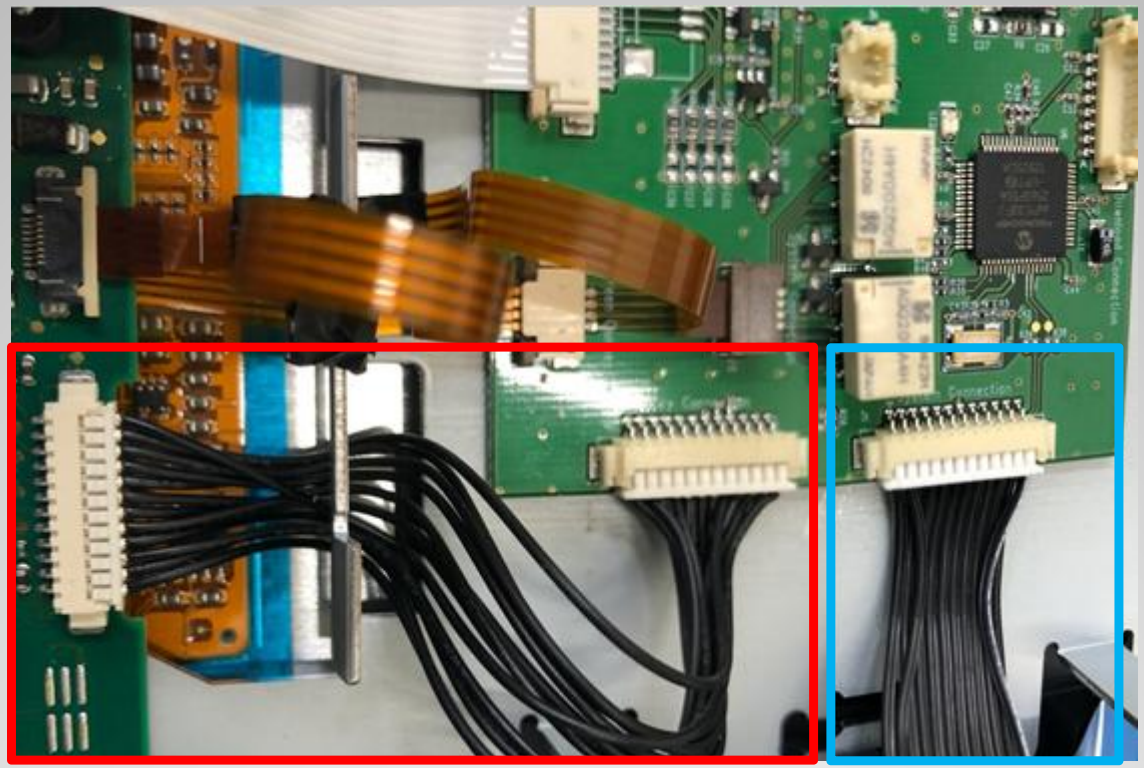


① Work to make Gold visible

② Work to make black visible

11. Install Manual

8. Mode cable connection



Connect the provided mode cable.

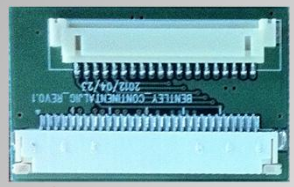
Connect the OEM cable.

11. Install Manual

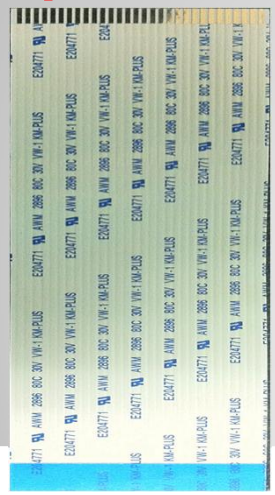
9. OEM cable connection

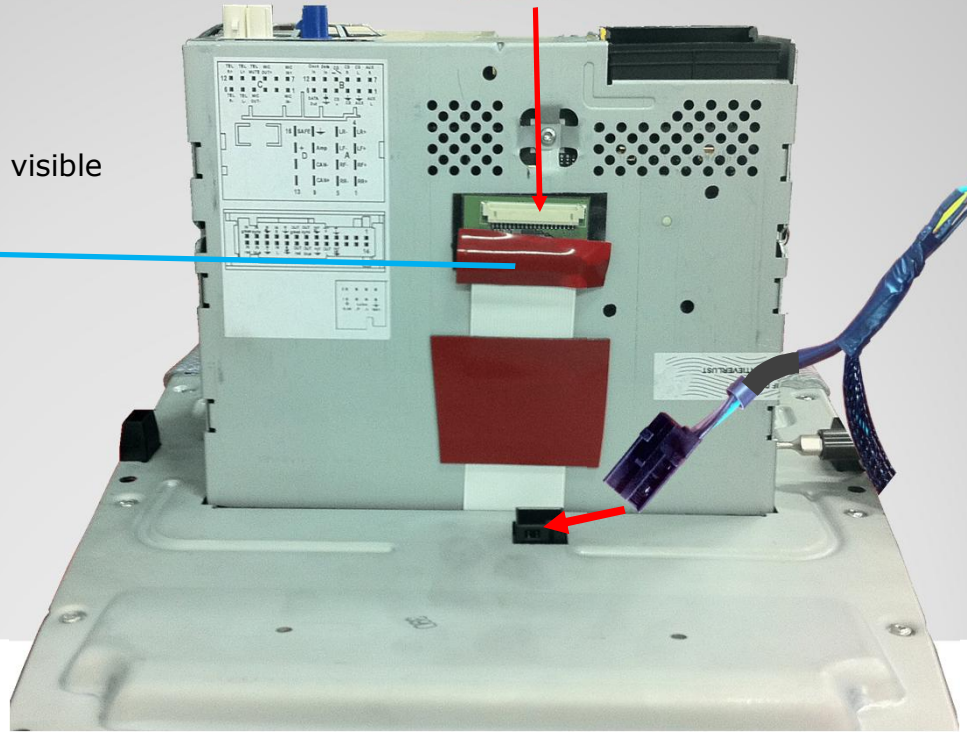
11. Install Manual

10. JIG Board connection



Work to make Silver visible





LVDS Cable(800mm)

OEM 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
.