BMW

MULTIMEDIA VIDEO INTERFACE With CAN

Model : PIP - BM09 - N3 - V2.0
Product Code : PIP - BM - 0902 - 000

DIP S/W   KEYPAD   LCD-IN   LCD-OUT

LED   MODE   POWER/CAN   RGB(IN)   A/V(IN/OUT)

V=12 DC, Nagative ground connection

1、accessories

（1） interface video

（2） AV output
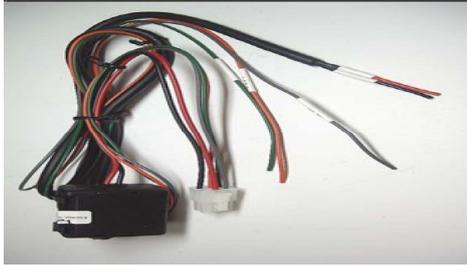
（3）cable

（4） RGB IN（GPS）cable

（5）LCD OUT data cable

（6） MODE cable
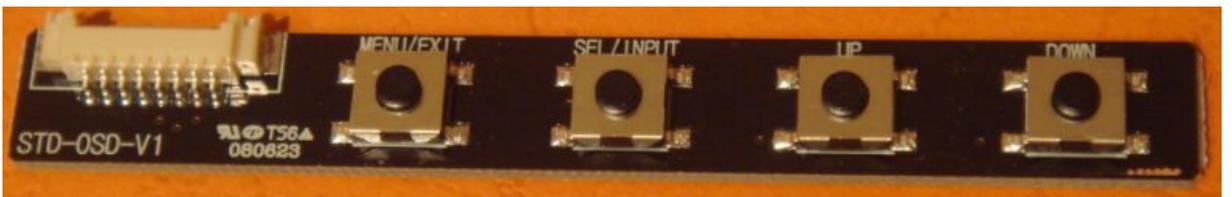
（7）picture setup and mode board

2、Pictures of connection

3、 Introduction of each slot：

（1） each slot

Switch button   Power/CAN slot   GPS（RGB）input   Video Out/input

LCD-OUT（data output）   LCD-IN（data input）   Slot of pallet   Function Setup

（2） power cable and RGB slot

① ACC -------------Red
② GND -------------Black
③ CAN(H) -Green and grey
④ CAN(L) Green
⑤ F-CAM-DET No use now
⑥ SAFE ----Purple
⑦ REAR-C --Grey

① R DATA RED
② G DATA GREEN
③ B DATA BLUE
④ SYNC WHITE
⑤ GND BLACK
⑥ NAVI-IR
⑦ DVD-IR
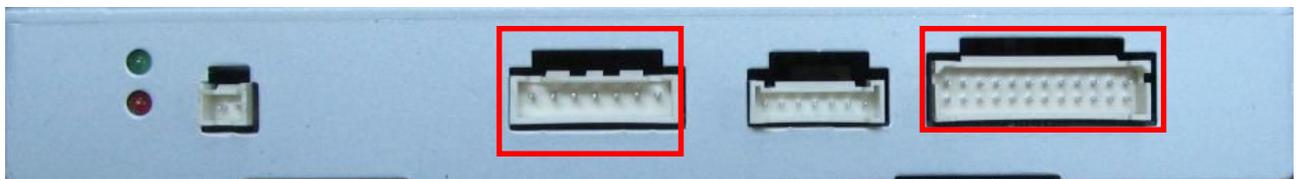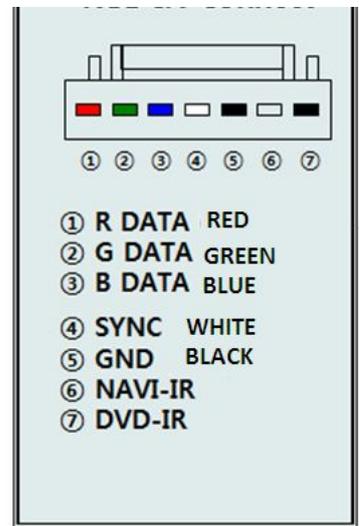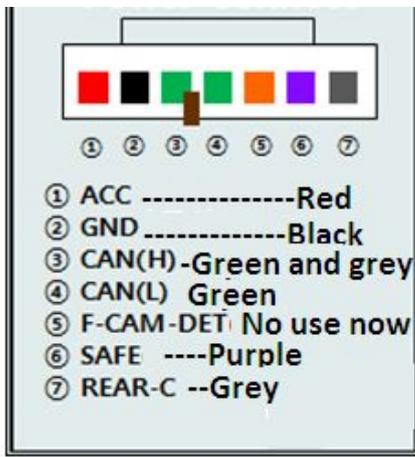
Power cable:

This power cable is for safe power, has filter, better for picture quality.

ACC 12V-24V
GND
CAN-H
CAN-L
Frond camera-no
safe click cable,do
not suit

Parking guiding test
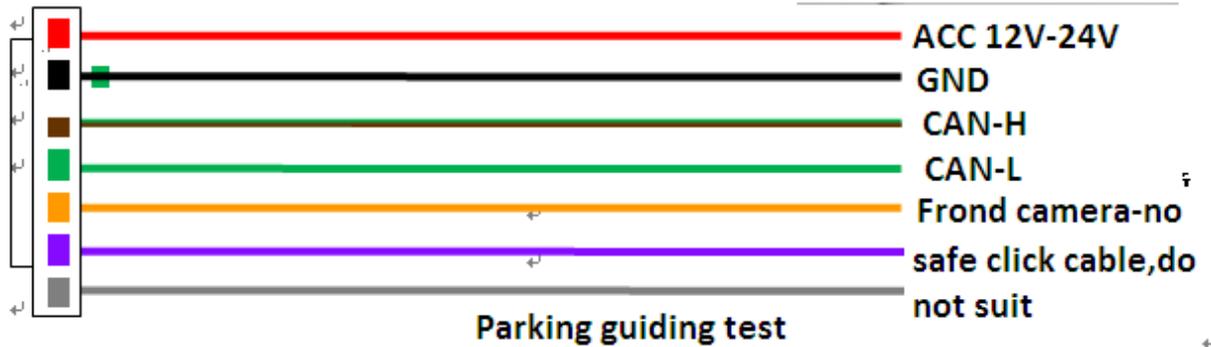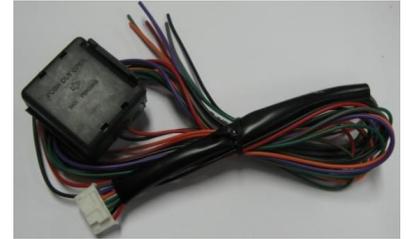
Define to all the cable upwards

（1）red ACC power cable connect to ACC:8V-16V,better input is 12V

（2）black connect the earth

（3）orange cable is the front camera(do not support now,.) when you use it,do not need to connect now

（4）purple cable is the safe cable, do not use.

（5）grey cable is the parking control: set the control signal for camera, ensure when parking the screen can auto skip to parking shot, this car model is CAN control parking, so this cable do not need to connect.

RGB define：
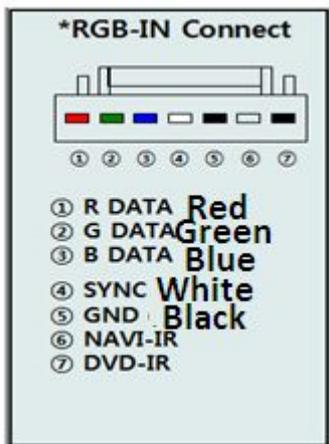
RGB-in is GPS input signal: When connect, please note that all the pin concept has the opposite define with the RGB cable, must connect according to the order of the interface video

generally：the 6th cable is used to control IR cable of GPS/TV.
The 7th cable is used to control the IR of DVD

CAN cable introduction

CAN cable has two, connected to control signal CAN HIGH and CAN LOW，please find the CAN LOW and CAN HIGH as the introduction and make sure that your way is right。

How to find CAN HIGH /CAN LOW?

Behind BMW screen control board, you can strop off one cable of the connection, and find a green-brown cable, it is CAN HIGH，another green cable is CAN LOW.
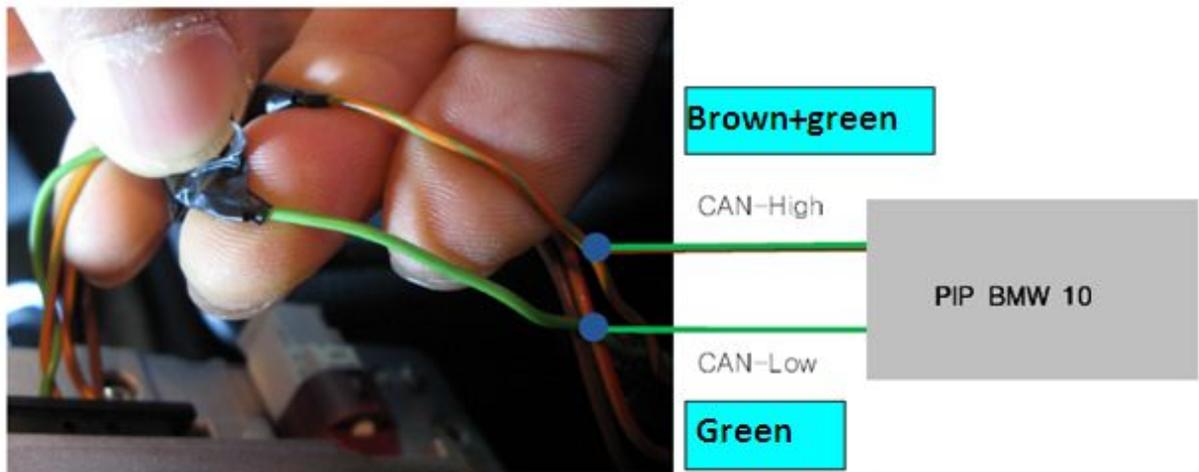
Please do not connect this place wrong.

DIP usage：

Button No.	function
#1	Turn on/off the GPS signal street, upwards is turn on.
#2	Turn on/off the AV1 signal street, upwards is turn on.
#3	Turn on/off the AV2 signal street, upwards is turn on.
#4	Turn on/off the AV3 signal street, upwards is turn on.
#5	Screen size option：upwards means 8.8 inch or 10.2 inch Downwards is 7 inch
#6	No define now
#7	Parking signal option: upwards: original camera or close, **downwards is added camera**.
#8	No define now

Pallet introduction
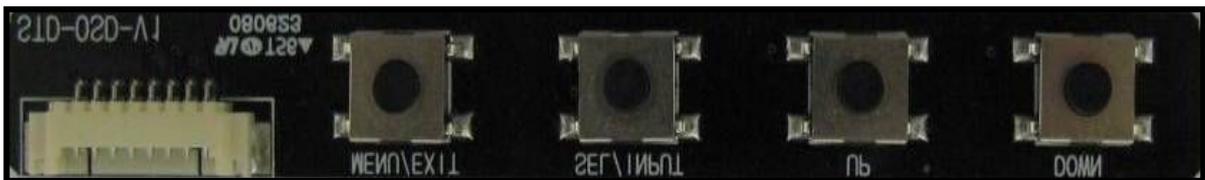
MENU : set OSD、 after setting up, press this means quit

SEL : choose or switch

UP : left/up

DOWN : right/down

*FACTORY MODE (Interface setting) : press as UP→DOWN→UP →MENU can be as Factory Mode.

Original button operation

- I-Drive   (E90, F01, F18)

Menu:press for 2 seconds-switch
Less then 2 seconds--switch to original screen
▽ :pull behind more than 2 seconds--can
switch beteween parking&Radar

–   (E90)

: **Press for 2 seconds:realize PIP**

Press 2 seconds ---for switch

Menu button---press for 2 seconds, can have function of switch.
Less than 2 seconds, switch to original screen

▽   button more than 2 seconds—realize parking

and parking sensor switch

4、OSD function instroduction：

What is OSD？ ON SCREEN DISPLAY .

1、use menu adjust: remote control operation
 1）IMAGE adjust：
   GPS output shot：   AV out-put shot：
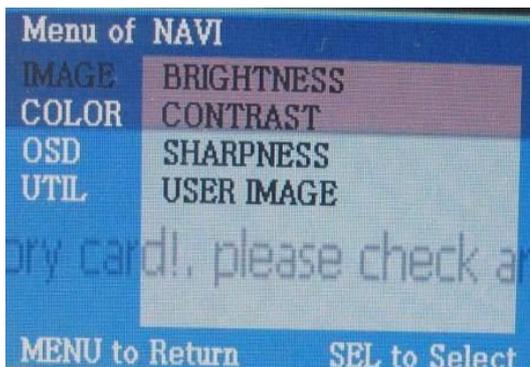
Menu of NAVI		Menu of AV1	NTSC
IMAGE	BRIGHTNESS	IMAGE	BRIGHTNESS
COLOR	CONTRAST	OSD	CONTRAST
OSD	SHARPNESS	UTIL	SATURATION
UTIL	USER IMAGE		HUE
ory card!, please check ar			SHARPNESS
			USER IMAGE
MENU to Return SEL to Select		MENU to Return SEL to Select	
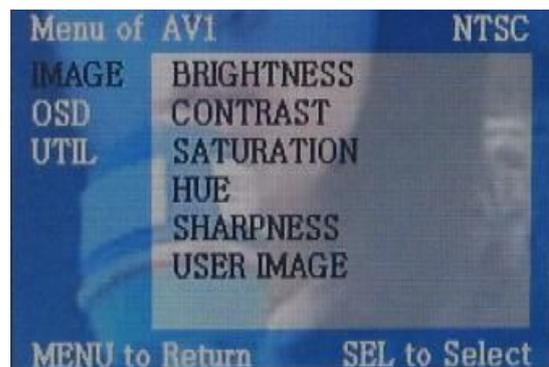
BRIGHTNESS：brightness adjust   CONTRAST：contrast adjust

SHARPNESS： sharpness adjust   USER IMAGE：back to initial setup

SATURATION：saturation adjust（color）   HUE：Hue adjust

2）OSD adjust option ：

GPS   :   AV out-put：
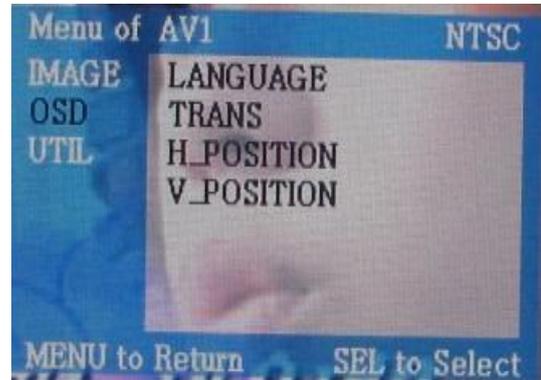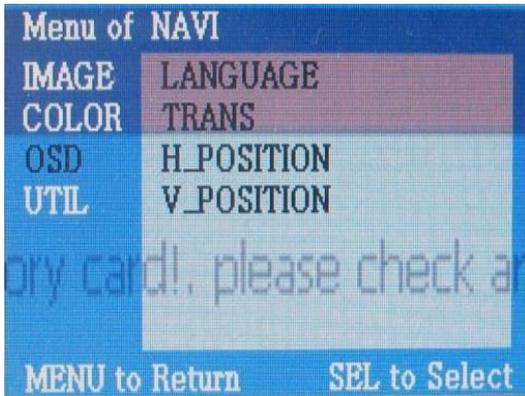
LANGUAGE：OSD(English Chinese)   TRANS： OSD trans adjust

H-POSITION：   V-POSITION：

By optional of UTIL can recover to factory default.

2、Introduction of factory setup

Press UP→DOWN→UP →MENU button to enter Factory Mode.
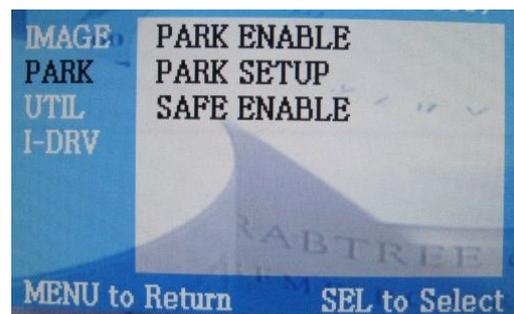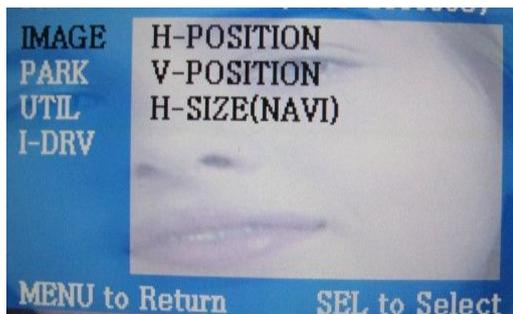
Introduction：

IMAGE move

(1) H-POSITION   left/right

（2）V-POSITION   up/down

PARK can set the parking have place or not. Considering the introduction below:
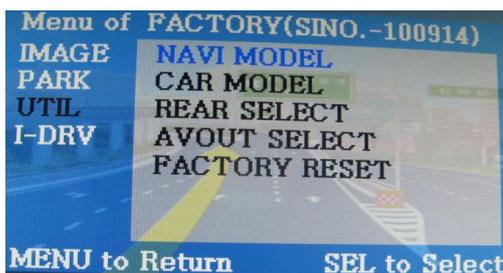
NAVI MODEL: GPS brand choose DEFAULT -480*234

KD-900（WVGA）-800*480

CAR MODEL: New 3 .X1.X5.X6 screen with 8.8 inch choose E90

New 5 series，5 series choose F18

New 5 series with lateral camera choose "F18-S"

New 7 series choose F01

REAR SELECT: choose CAN   then it is CAN cable control parking，choose "LAMP" then it is parking light control，New model

BMW model please choose"CAN"and make sure that the CAN cable is correctly connected.

FACTORY RESET:

I-DRV option setup：I-DRV TYPE choose NEW   I-DRV

I-DRV CONTROL choose ON（if need to use original I-DRV operation GPS、DVD、TV etc external added device）

I-DRV REMOTE and I-DRV AUX do not need to setup

1）**Setup the parking line: must under factory mode.**

First enter factory mode, like the picture below, enter park option and park enable, choose "ON"
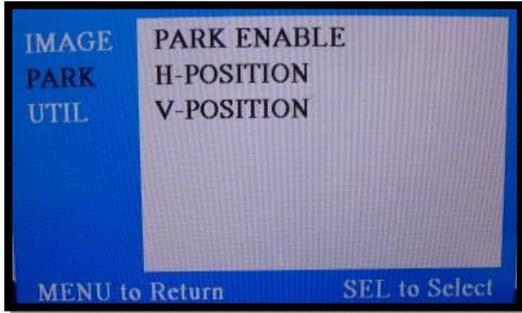
Can use parking like pictures left
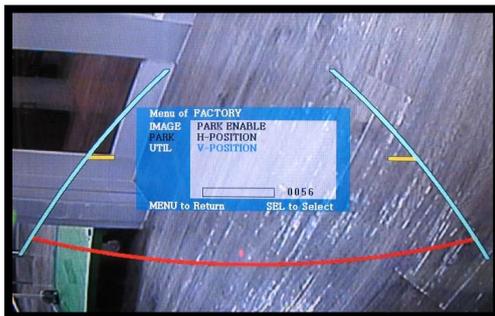
Choose below "PARK":
Use H-POSITION and V-POSITION order to adjust the direction, and choose the best one you like.

5、Technologic

Original CAN cable

Host

Original LCD cable

Screen

CAN

PIP BMW 09 For 3sereis

DIP &/H   KEYPAD   LCD-IN   LCD-OUT

LED   MODE   POWER/CAN   RGB(in)   A/V(IN/OUT)

REAR-C
SAFE
F-CAM-DET
CAN-L
CAN-H
GND
ACC

REAR-C   AV1   AV2   AV3   AV(IN/OUT)

VIDEO

AUDIO R
AUDIO L

-28-
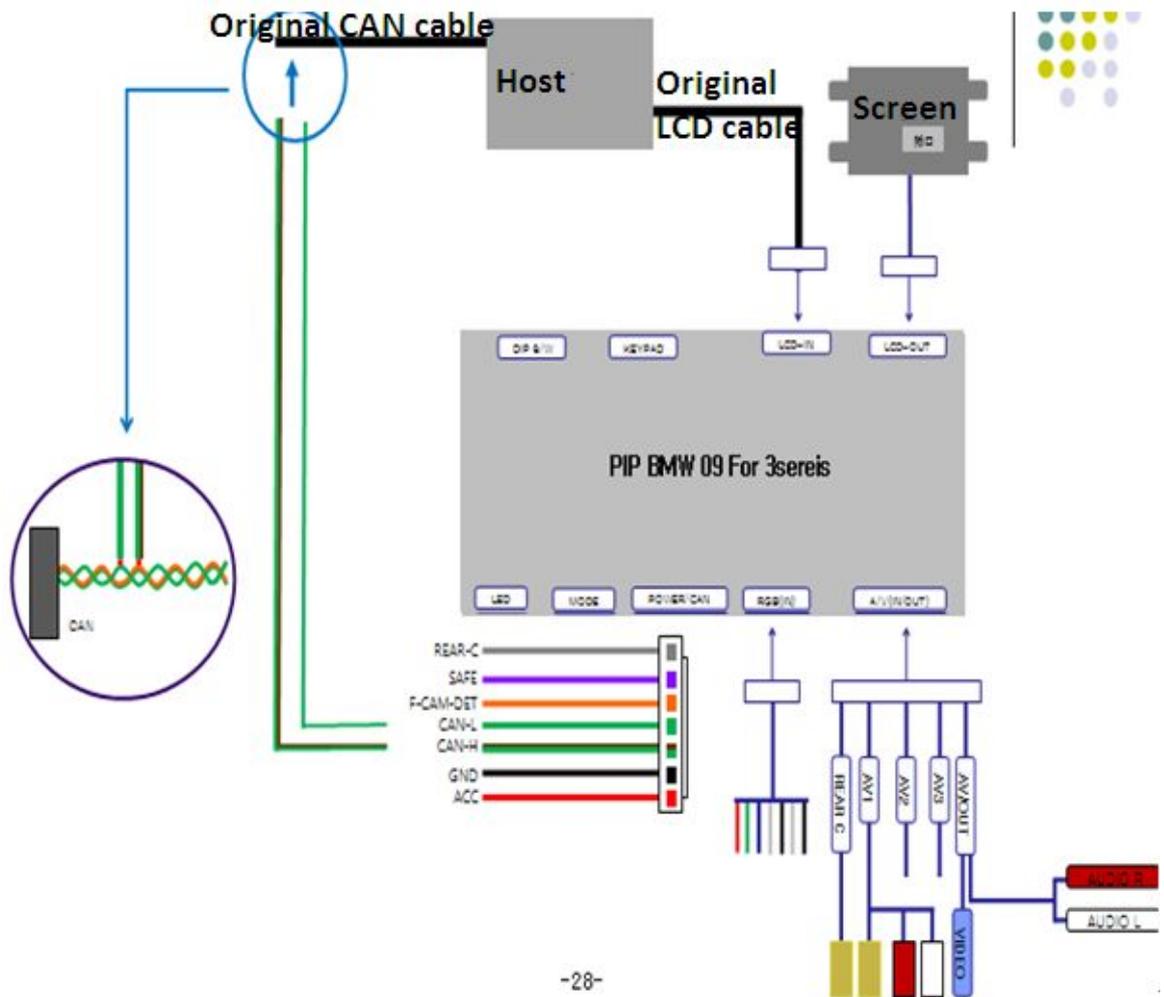
6、 Installation

（**F18 New 5series as example**）

1)   Use your hand pull the peach wood area of the screen.   2） get rid of the peach wood

3）get rid of the two screws behind the screen

4）get out the screen and the plug
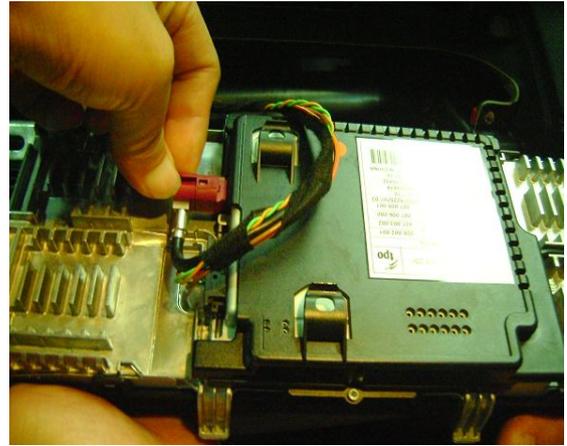
5）connect the CAN cable,,green with orange is CAN H, Green is CAN L

6）open the cover

7）Remove rail box back tuyere cover, pull out cigarette lighter plug connection ACC and ground   and AUX audio line

8）Tear down co-pilot next left a screw, take out rail box side plate in order to get the line
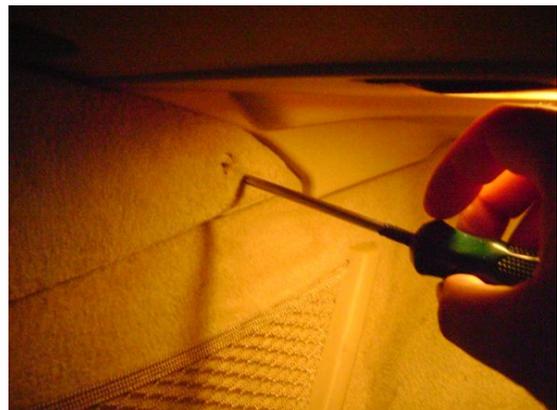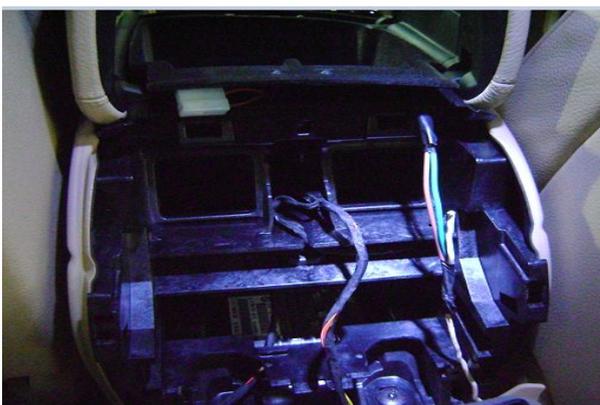
9）connect   ACC AUX ground by rail box on the

right side of threading to the front

10) Pull down 2 screws before the co-pilot below guard

11) Remove co-pilot former beneath the plate screen by threading the vice driver seat.

12) move the power cable to the behind of the
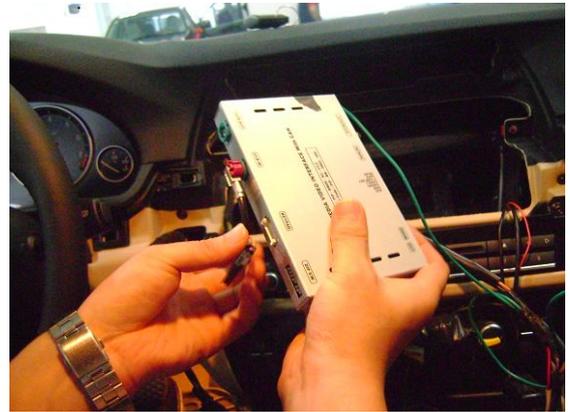
13)check all the slots, and fix the interface.