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## Function Statement



CarPlay



AndroidAuto



Front/Rear



Mirroring

AHD

AHD HD video protocol



USB video



DSP Power amplifier chip



Super-Fast Charging

### iPhone –CarPlay

The iPhone's built-in car-machine interaction system works with the central control knob button to operate the voice control phone, information, navigation, music and Siri voice interaction for more information; supports wireless and wired connections to CarPlay

### CarLife

The car and machine care system developed by Swedesolution, supports the connection of iPhone and Android devices, voice control of telephone, information, navigation, and music; built-in voice control system, supports wireless and wired connections

### Google - AndroidAuto

The original ecological Android car-machine interaction system developed by Google, voice control phone, information, navigation, music built-in voice control system;

### Front/Rear/360

The intelligent module can decode video, and can be equipped with front view, rear view (support display intelligent dynamic trajectory and radar), right view and 360 panoramic view

### Mirroring

Supports wired and wireless screen projection for iPhone and Android phones

### AHD HD video protocol

Added AHD HD rear view/360 video output interface

### USB video

Automatic media playback function, can directly insert U disk to play audio and video media

### DSP Power amplifier chip

Add DSP power amplifier chip to improve sound quality

### Super-Fast Charging

The system has built-in intelligent and efficient charging processing unit to realize fast charging function, overload protection and monitor the charging environment of mobile phones

## Main Parameters & Specifications

Operating voltage: 9-16V, 14.4V (rated)	Storage temperature: -30~+85°C
Operating temperature: -30~+75°C	Ambient humidity: ≤98% (at45°C) , 65±5% (rated)
Power consumption current: 1A (rated) , 3A (Max)	Shutdown current: Current: 300mA (Clock is on)
Quiescent current: less than 3mA	
Charging current: ≤1.5A USB >3A, 1.5A ≤1.5A, when the USB charging current >3A, the host machine should activate the circuit protect function to control the current within 1.5A and avoid products burning	

## Warranty Terms

### Dear user:

Thank you for using our products. In order to make sure customers receive product is good, all our products have been strictly tested in our factory before delivery. And all our products enjoy 1 year warranty.

### But following conditions are not covered by warranty:

- 1.After the free warranty period, the appearance is scratched, dirty and deformed
- 2.The warranty card and purchase certificate are inconsistent with product model or have altered marks
- 3.The bar code of the product is unclear or there is no bar product code
- 4.Failure to use maintain, repair or refit according to the requirements of the product manual causes damage
- 5.Damage due to irresistible factors (such as fire, flood, traffic matters, lightning, earthquakes, etc.).
- 6.Inexpert assembly or short circuit



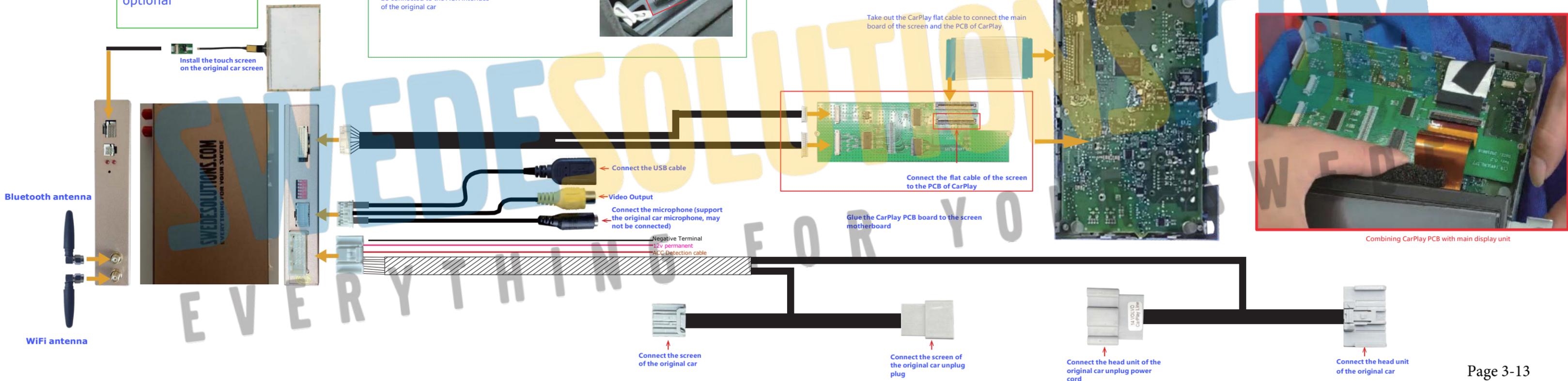
Before starting your project, first read the complete installation manual according your Volvo make and model.

Explicit, if applicable, the touchscreen installation steps!

**Disconnect Battery before working on electronic components and beware of static electricity discharge on display components!!**

**Note:**  
Touch screen is optional

**Note:**  
The AUX plug of CarPlay needs to be connected to the AUX interface of the original car



Combining CarPlay PCB with main display unit

## Button description-Volvo 2011-2015



## Installation instructions 1 - Volvo 2011-2014

### Tools

1. Remove Panel
2. 1 T20 screwdriver
3. 1 T10 screwdriver(some car models need it to dis-assembly the glovebox)
4. Tape and towel-protect the trim and panel, collect harness

**⚠ Remark : Disconnect Battery before working on electronic components !!**



1. Note that there are two screws on the back of the center control panel that need to be unscrewed



2. Remove the air-conditional panels and trim via plastic panel remover. (Note to disconnect the connector behind the panel)



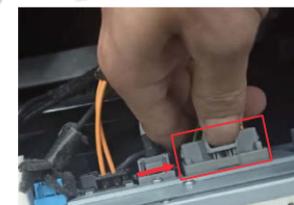
3. Unscrew the screws on the center control panel



4. Take out the control panel. (Note to disconnect the connector behind the panel)



5. Unscrew the 2 screws on the head unit



6. Take out the head unit and unplug the main line behind the head unit



7. Remove the trim panel of the screen



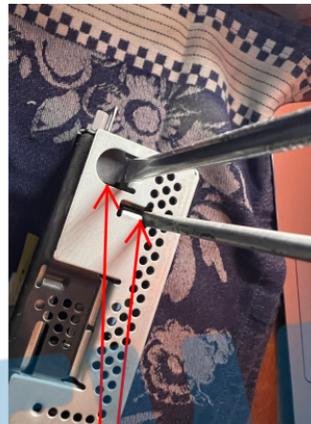
8. Unscrew the screws on the screen



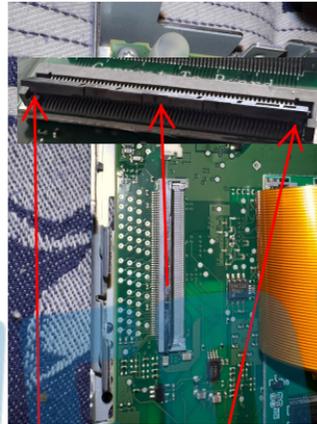
9. Take out the screen, unplug all the plugs on the back of the screen



10. Display unit end clipholder



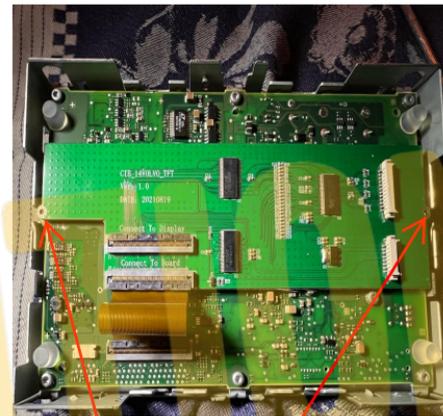
11. With two small screwdrivers one under the display unit on the other one for the clipholder.



12. Disconnecting the flat cable: The black clip should be carefully moved up. Guided on both sides of the clip, not in the middle it breaks!



13. Be carefully with the connectors; Use appropriate tools for disassembling the screen flat cable from the motherboard. For the little connector use the end of the MILLOR cable for disassembling. Gently!



14. The motherboard for the touchscreen fits perfectly on the main display motherboard.



15. Assembling flat cable. Push the Millor cable gently to the far end and push the black clip downwards until it clicks.



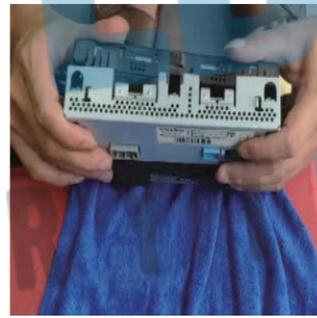
16. Final assembly overview of Motherboard and additional touch screen motherboard connected with the flat cable. For security reasons put isolation tape over the millor strip.  
Do not overbend the millor strip because it is fragile.



17. Finally attach the wiring harness that connects the central mobile phones communication unit.



18. Be carefully with the display Millor Strip it's fragile, when restoring the display.



19. Restore the screen Millor Strip it's fragile, when restoring the display.



20. Be careful not to damage the wiring. On one side (cable harness) the display unit will not Click it's oké. Don't overstrain. The dashboard will also hold the display in place.

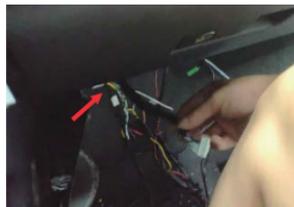


21. Final overview of assembled Display unit

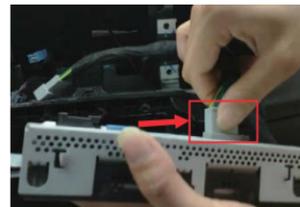


**Beware of static electricity discharge on display components!!**

## Installation instructions 3 - Volvo 2011-2014



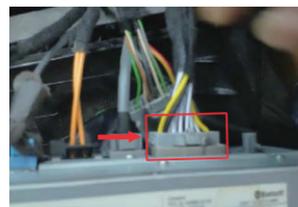
16. Lead the CarPlay main line and LVDS line from the inside of the screen to the passenger floor



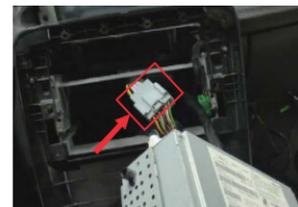
17. Connect the screen adapter cable on the CarPlay main line to the screen



18. And connect the other end to the original car's screen plug



19. Connect the main line of CarPlay to the original car head unit



20. And connect the other end to the main line of the original car

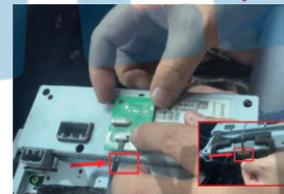


25. Reconnect the original plug of the screen to the screen and restore the screen

**The non-touch screen version of CarPlay does not require the following installation !!**



21. Take out the CarPlay touch screen, tear off the protective film and stick it on the original car screen



22. Take out the PCB board of the touch screen and connect the cable of the touch screen to the PCB board (the chip of the touch screen can be glued here)



23. Connect the touch screen cable of CarPlay to the PCB board



24. Connect the touch screen cable to the box



26. Connect CarPlay's Bluetooth antenna, WiFi antenna and usb cable to the box; Connect the CarPlay LVDS cable and the white plug of the main cable to the box



27. Note that the AUX plug of CarPlay needs to be connected to the AUX interface of the original car



28. After the installation is complete, you can restore the original car layout



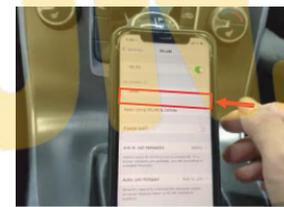
29. Enter the media interface of the original car system through the MEDIA button, select AUX



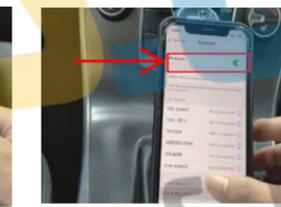
30. Long press the EXIT button on the steering wheel to switch the CarPlay system



31. CarPlay; You can check Bluetooth name and other information on the Bluetooth interface of the CarPlay system



32. Turn on WiFi on the phone and



33. Turn on Bluetooth, search and connect CarPlay Bluetooth



34. Pay attention to the information in the pop-up window of the mobile phone, click on pairing



35. Click to use CarPlay and enjoy wireless CarPlay

## Voice Setting



1. The AUX plug of CarPlay needs to be connected to the AUX interface of the original car



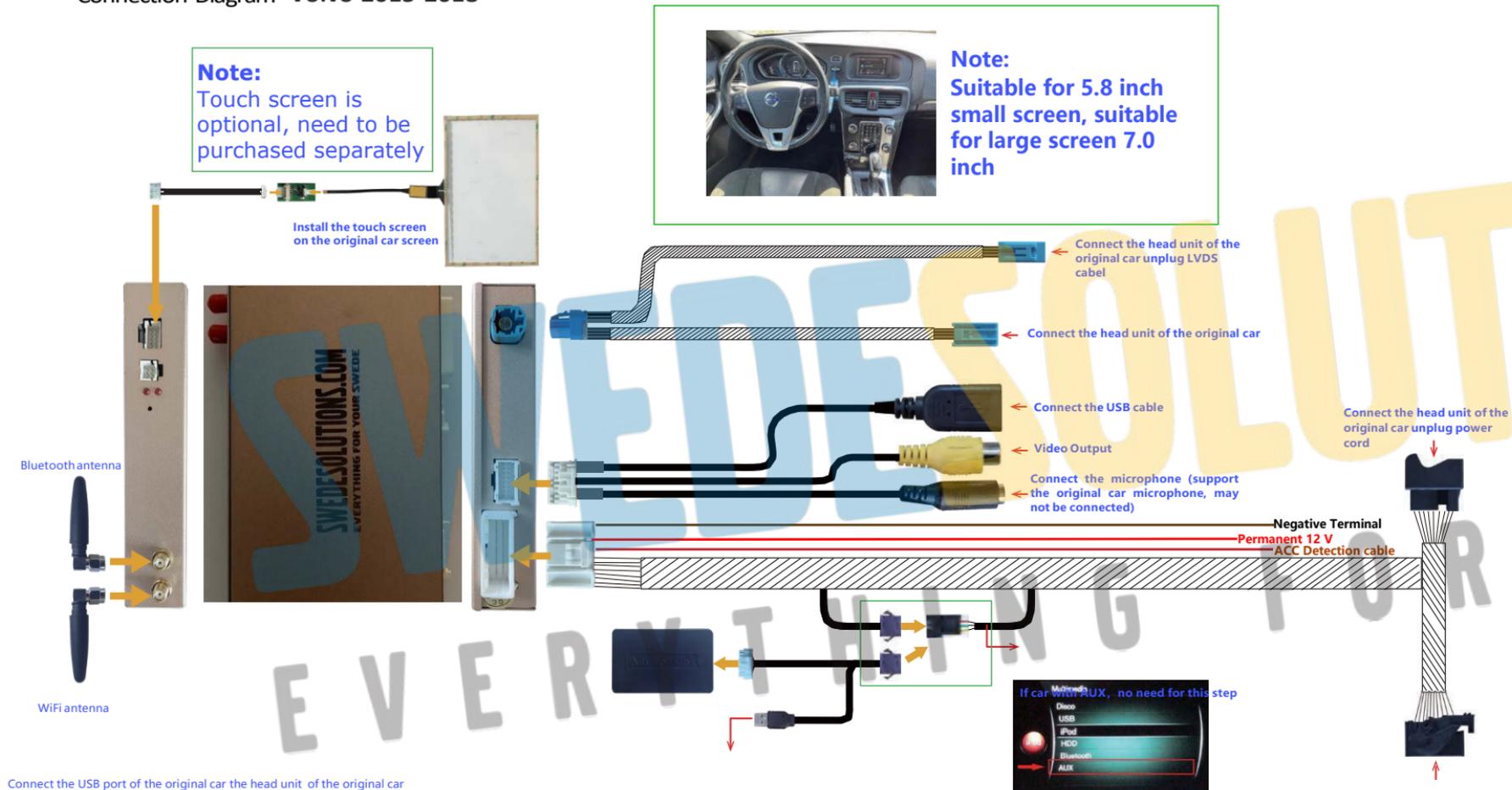
2. Enter the media interface of the original car system through the MEDIA button,



3. Long press the EXIT button on the steering wheel to switch the CarPlay system



4. Enjoy wireless CarPlay after connecting your phone.



Button Function Volvo 2015-2018



# Installation instructions - Volvo 2015-2018

Deze moet nog ergens staan Connect the touch screen cable of Connect the touch screen cable of

## Tools

1. 1 Remove Panel
2. 1 T20 screwdriver
3. 1 T10 screwdriver(some car models need it to dis-assembly the glovebox)
4. Tape and towel-protect the trim and panel, collect harness

**⚠ Remark : Disconnect Battery before working on electronic components !!**



1. Remove the air-conditional panels and trim via plastic panel remover. (Note to disconnect the connector behind the panel)



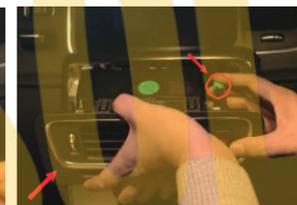
2. Unscrew the 2 screws at the corner



3. Remove the whole console control panel



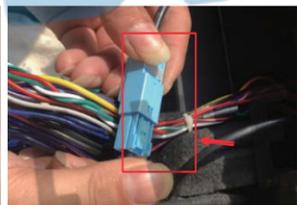
4. There are 2 screws on multimedia head unit, unscrew them and take out the box



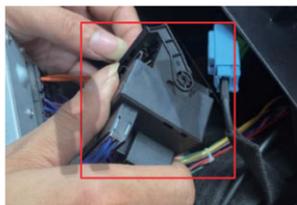
5. Remove the 48pin connector cable, Note: If there is FIBER cable on original 48pin connector, please remember to remove it.



6. Remove the LVDS cable (normally blue one)



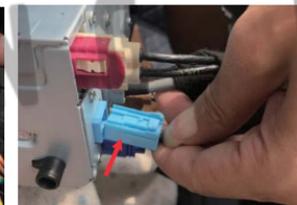
7. Insert the iSmart box 48pin connector into multimedia head unit. Insert the original FIBER cable into iSmart 48pins connector.



8. Connect its another side with original car 48pin connector



9. Connect iSmart LVDS cable with original car LVDS cable



10. Insert another side into multimedia head unit



11. Put all harness through the ACC area to passenger glove box area. Recommend you put iSmart box here



12. Connect the power cable, LVDS cable, and USB cable with iSmart box



13. Insert the audio USB-AUX cable into car USB port. (if original car have AUX, omit this step)



14. The installation is finished, put back all panels. Enter the media interface of the original car system.



15. Choose iPod. (If original car have AUX, choose AUX; )

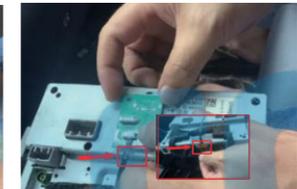


16. Long press EXIT button on the wheel to switch to carplay interface

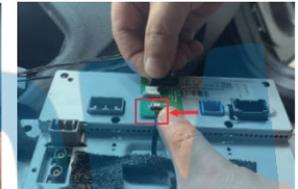
The non-touch screen version of CarPlay does not require the following installation



21. Take out the CarPlay touchscreen, tear off the protective film and stick it on the original car screen



22. Take out the PCB board of the touch screen and connect the cable of the touch screen to the PCB board (the chip of the touch screen can be glued here)



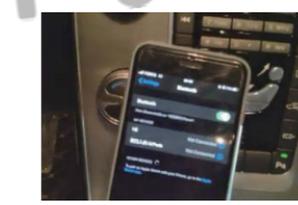
23. CarPlay to the PCB board



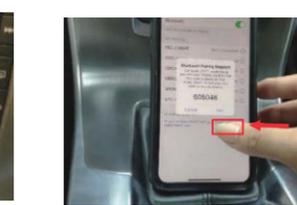
24. CarPlay to the box



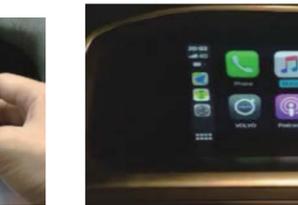
17. You can check CarPlay's Bluetooth name and other information on the Bluetooth interface of the CarPlay system



18. Open the phone Bluetooth, and keep WIFI on; search and connect CarPlay Bluetooth



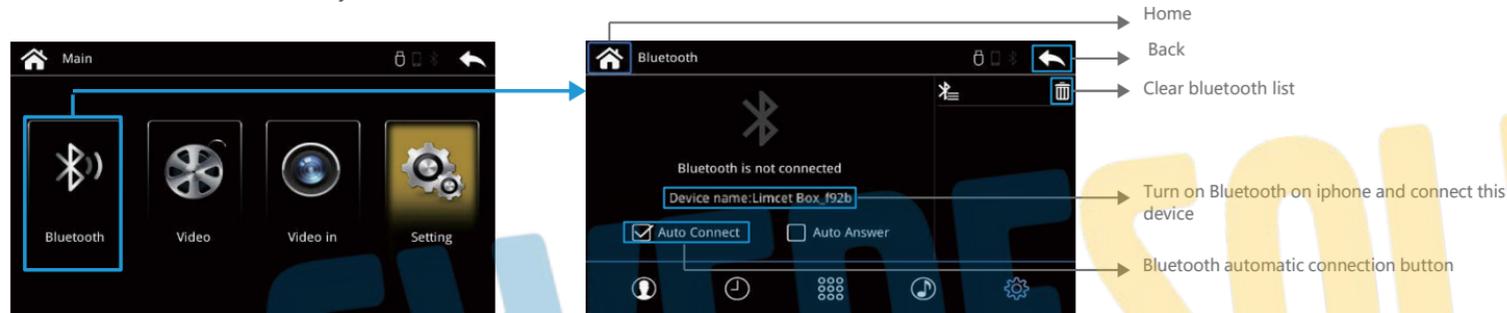
19. Pay attention to the information in the pop-up window of the mobile phone, click on pairing



20. CarPlay Phone will ask you whether to use carplay, please choose allow. Carplay connection successes

## Wireless iPhone CarPlay Connection Method

Click the **[Bluetooth]** icon in the system main interface to enter the Bluetooth connection interface



CarPlay supports wireless and wired connection  
Wired connection - Plug & Play

## Wireless CarPlay Connection Method

### 1. iPhone

Turn on the phone WLAN

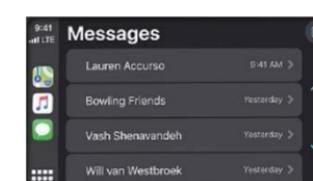
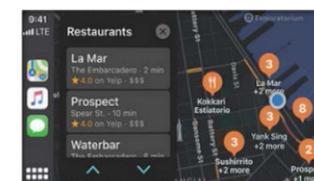
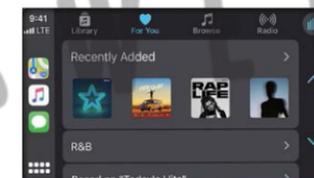
2. Search for bluetooth devices

3. Allow pairing device

4. CarPlay onboard is allowed



5. CarPlay connection is successful, you can use wireless CarPlay



Map & Navigation

Messages

## iPhone Mirroring /iPhone Wireless Mirroring

Click the **【Mirroring】** icon in the system main interface to enter the Mirroring connection interface

**Note: If the phone is connected to CarPlay, you need to turn on the phone and turn off the WiFi**



CarPlay WiFi:  
Turn on the phone WLAN and connect the current device WLAN;  
and enter WLAN password:  
**88888888**

## Wireless Android auto Connect Method

Click the **【Bluetooth】** icon in the system main interface to enter the Bluetooth connection interface

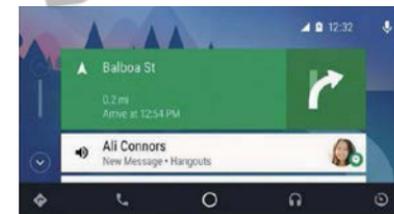
### Android Auto APP

Before connecting to use Android Auto, you need to download and install **Android Auto App** on your phone in advance



1. Turn on the phone WiFi and keep it on, then enter the phone Bluetooth interface, click and connect device Bluetooth

2. Confirm the use of the Bluetooth connection

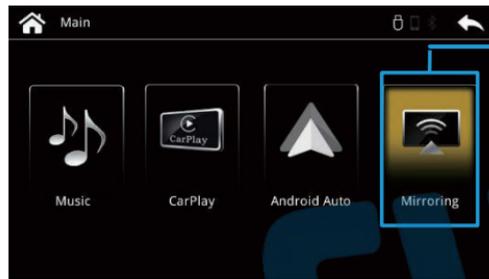


3. After the Bluetooth connection is successful, it will automatically connect to Android Auto. And the wired connection is plug and play, without the above operations

## Android Wireless Mirroring

### Mirroring

Click the 【Mirroring】 icon in the system main interface to enter the Mirroring connection interface



1. Turn on the phone bluetooth, connect the device bluetooth and confirm use of connection

2. Enter the phone settings function and find "Personal Hotspot"; Set the name and password of "Personal Hotspot" to be consistent with the name and password prompted on the "Mirroring" interface.

3. Select "5.0 GHz Band" for the hotspot AP band; (If there is no such option, check the "Show advanced options" first) Then save the setting and turn on the "Personal Hotspot" switch



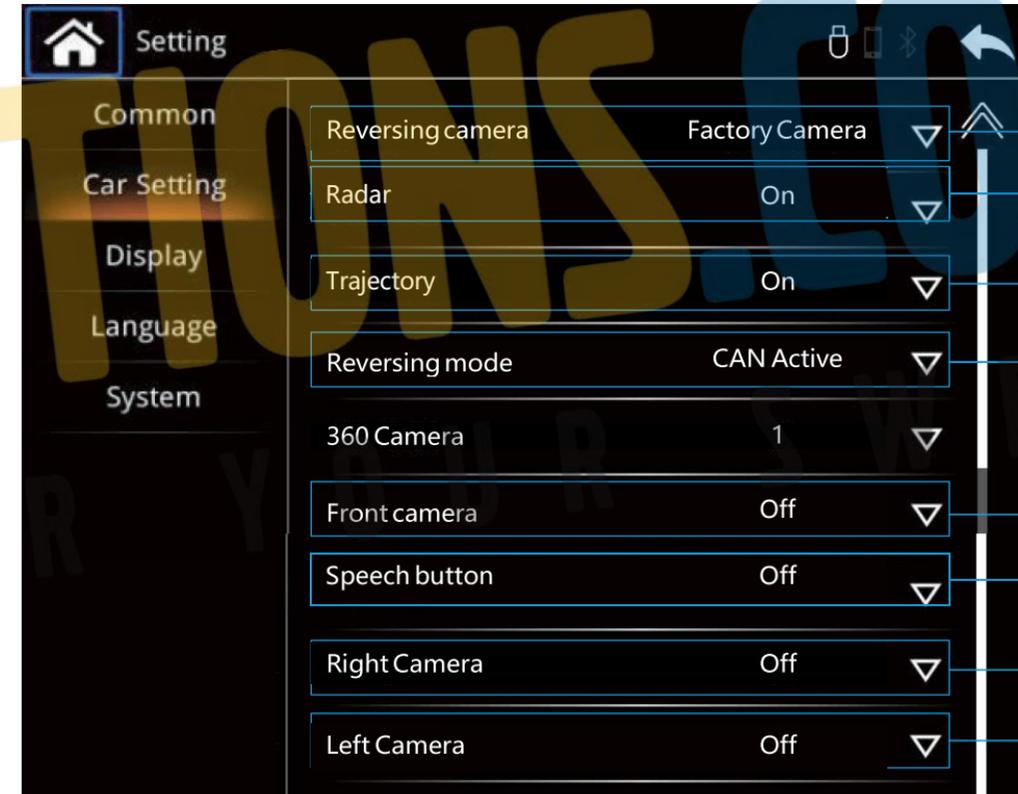
4. Return to the main interface of the phone and open "MLink" to use wireless mirroring. And wired connection plug and play, without the above operations

Select the phone type as Android

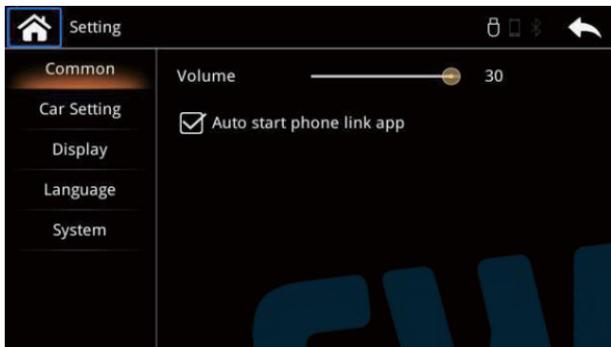


MLink APP;  
To use Android wireless mirroring, you need to download a "MLink" software first, and you can obtain the "Android wireless APK software" from the dealer

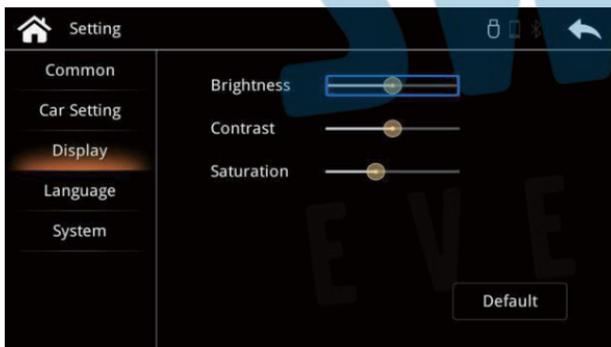
## System settings



## Automatic mobile phone connection switchLanguage selection



## Contrast adjustment

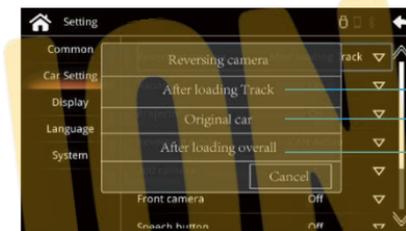


## View system version number



## Camerasettings

### CarPlay System - Setting - Car Setting - Reversing camera



- Please select this if you install a camera
- Please select this if the original car with a camera 360
- Please select this if you install 360 camera

### CarPlay: CarPlay System - Setting - Car Setting- Radar

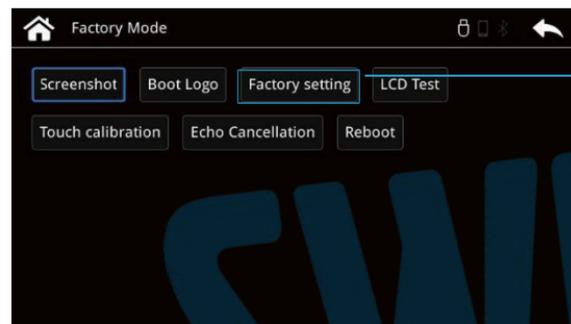


- The radar is not displayed on the interface of the camera select this option
- The radar is displayed on the interface of the camera select this option

### CarPlay: CarPlay System - Setting - Car Setting - Trajectory

- If the camera interface does not display dynamic track, select this option
- If the camera interface display dynamic track, select this option

CarPlay System - Setting - System - Factory mode (The password is 8818) - Factory setting



Android phone interconnection is off

CarLife  
CarLife interconnected  
GooglePlay  
GooglePlay interconnected



Apply - Sync, Reboot After the setting is complete, you need to click Apply-Sync, and then return to the interface below, click Reboot to restart the system, and wait for the system to restart, the selected settings will take effect

iPhone CarPlay  
iPhone CarPlay interconnected is off  
iPhone CarPlay iPhone CarPlay  
wired connection  
iPhone CarPlay  
iPhone CarPlay wireless connection

