VINLAND

CUSTOM-FIT CAR STEREO FOR Ford Mustang 2015-2023



Titan Series

INSTALLATION MANUAL

Important Notice!

Please read this installation guide carefully before disassembling your vehicle or making any wire connections. Installing this product requires technical expertise, experience and specialized tools.

If you are unsure about performing the installation steps outlined in this manual, we strongly recommend having the product professionally installed by an authorized VINLAND dealer.

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Retain Factory Features with Vinland TITAN

Upgrade without compromise—Vinland TITAN series, when paired with the CAN Bus Decoder, preserves select OEM features so you can enjoy modern technology while keeping the conveniences you love.

Explore the table below for a complete overview of retainable functions.

Note: Listed features are for reference only. Actual retained functions may vary by vehicle model year, trim, and regional specifications.

Features	Status
Door Reminder	Retained
Backlight Control	Retained
Auto Switch to Backup Camera	Retained
Parking Sensor	Retained
Steering Wheel Control	Retained
A/C Display & Control	Retained

Chapter 1 — Tools Needed & Packing List

Tools needed for installation: Plastic pry tools, 7mm & 10mm Socket Set, Screwdriver, Electrical tape, Scissors, Wrench, Screw Tray, Cable Ties.

Warning:

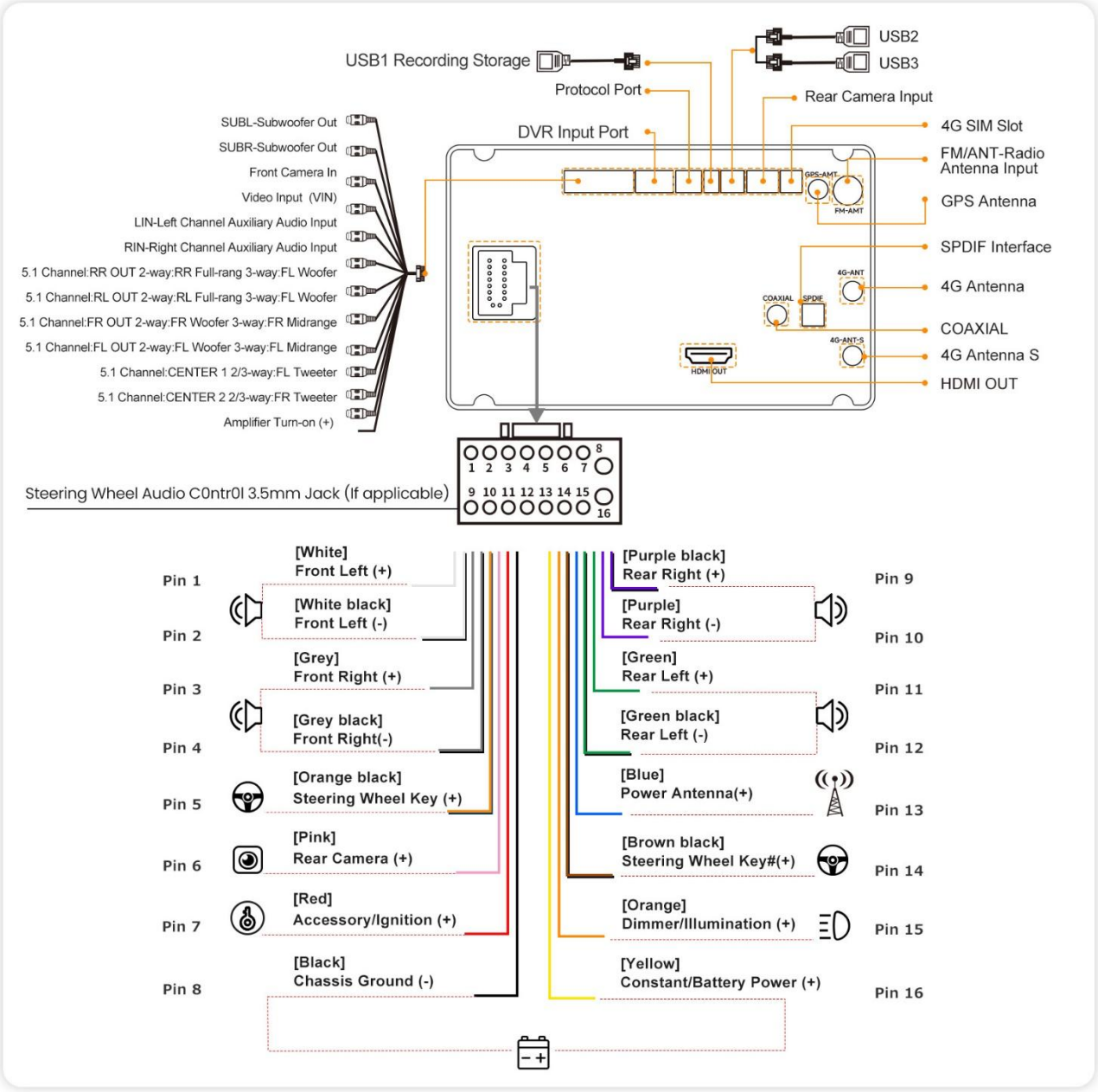
- We regularly release system updates that may introduce new features or changes not covered in this manual. Always refer to the latest release notes for comprehensive details.
- Download the latest Installation Manual from our website or contact customer support for assistance.
- We strive for comprehensive documentation. If you have questions or encounter issues with your car stereo that are not covered in this manual, please contact customer support.

① Car Stereo (T14FO3-9)
② Power Harness
③ Radio Antenna
④ Rear Camera Input
⑤ External Microphone
⑥ 6-pin USB2 Cable
⑦ 4G SIM Slot Cable
⑧ GPS Antenna
⑨ RCA Harness
⑩ 4G Antenna
⑪ 4G Right-Angle Antenna
⑫ SIM Card Eject Tool
⑬ User Manual
⑭ Warranty Card



Chapter 2 — Car Stereo Rear Connector Reference

The diagram below identifies the rear ports on the Vinland car stereo. Refer to this page when connecting accessories and harnesses during installation.



Chapter 3 — Installation

Dashboard trim and panel layouts may vary by model year. The disassembly steps in this guide are intended as a general reference only. Follow the actual vehicle configuration during removal. If you encounter difficulty during disassembly, seek assistance from a qualified automotive installer.

IMPORTANT: Before you begin, park the vehicle, turn off the ignition, remove the key, and disconnect power if required.
Do NOT connect or disconnect any wiring while the vehicle is powered on.

Part 1 Dashboard Disassembly



Step 1

Remove the small trim cover from the center console.



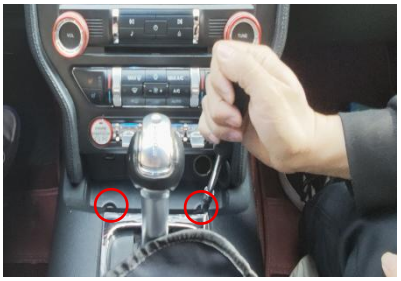
Step 2

Using the plastic trim removal tool, remove the trim bezel with air vents.



Step 3

Remove the rubber cover and black cover. (refer to the figure)



Step 4

Remove the two securing screws.



Step 5

Remove the two screws securing the lower part of the trim bezel.



Step 6

Remove the two screws securing the upper part of the trim bezel.



Step 7

Apply tape to the area below the side bracket of the factory radio bezel.



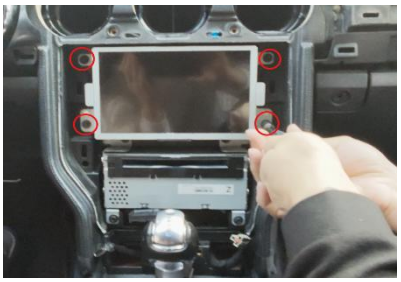
Step 8

Remove the silver trim ring around the gear shifter.



Step 9

Remove the center console control panel.



Step 10

Remove the four screws securing the factory radio.



Step 11

Remove the factory display module.



Step 12

Remove the four screws securing the factory head unit.



Step 13

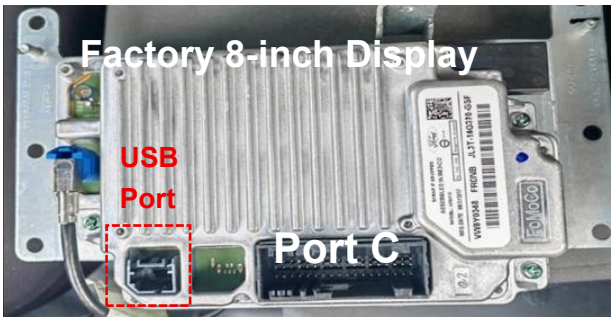
Remove the factory audio control module.

Factory Radio Rear Port Reference

The figures below show the rear port layouts of the factory radio. Refer to these figures to identify the factory connectors used in the wiring procedures that follow.

Port A and Port B are located on the factory radio module. Port C and Port D are located on the factory display.

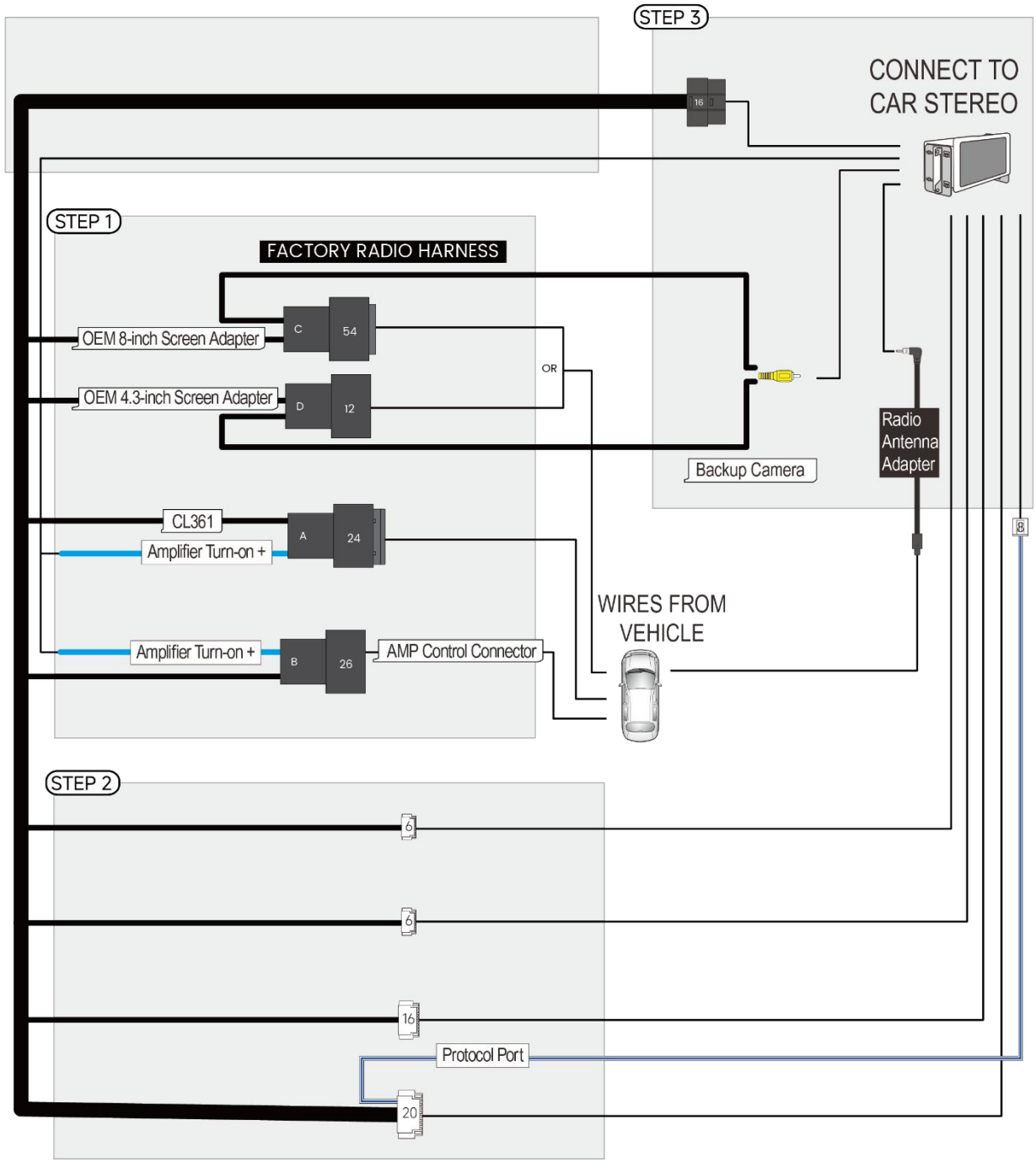






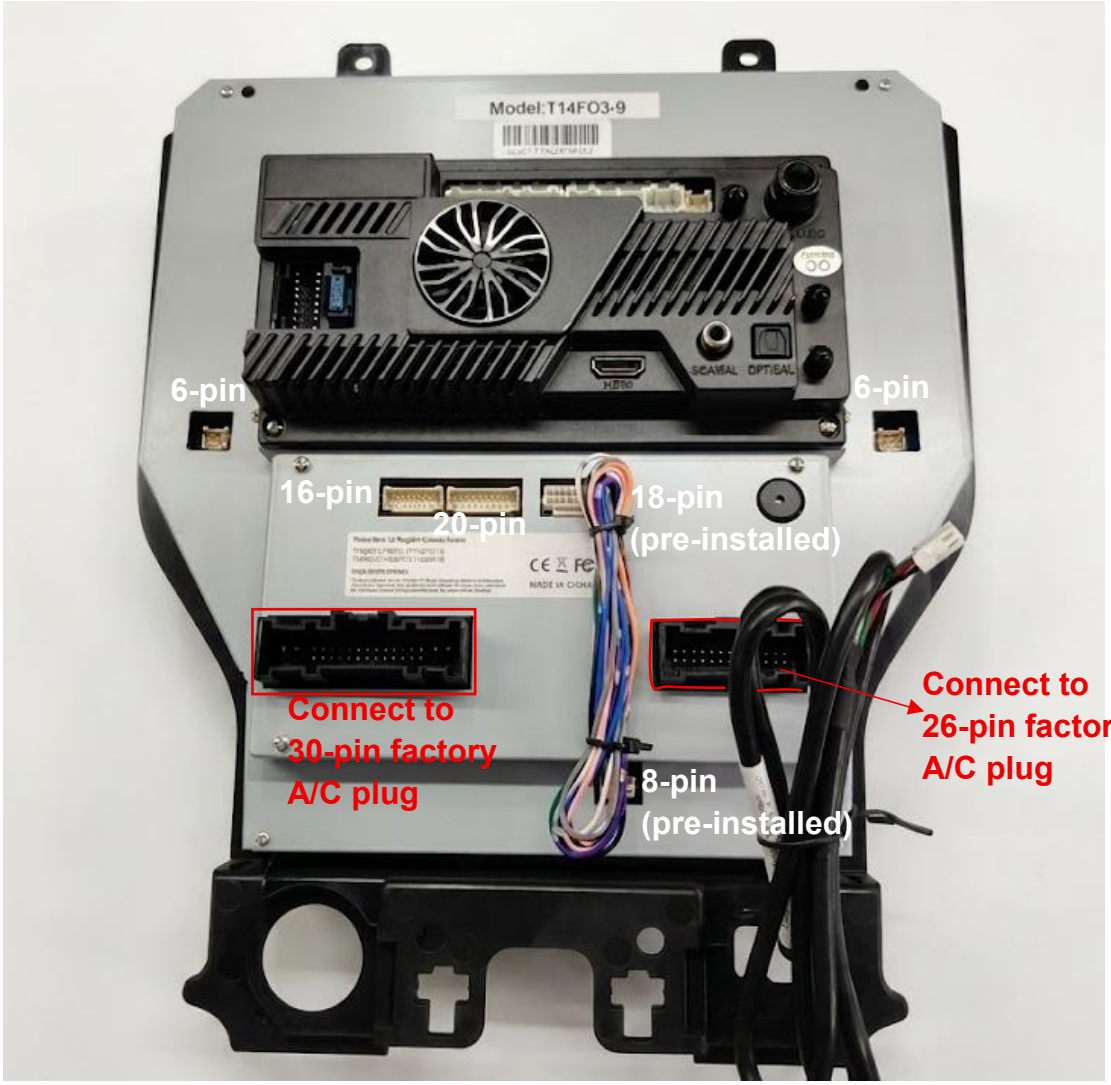
Part 2 Wire Connections

WIRING DIAGRAM



Rear Connector Reference for Vinland Control Panel

The photo below identifies the rear connector locations and pin configurations on the Vinland control panel assembly. The label colors in the photo are for reference only. Connectors marked in white are used with the supplied Vinland power harness. Connectors marked in red are used with the factory vehicle plugs.



Wiring Instructions:

IMPORTANT: Before making any connections, review the **wiring diagram** and the **Factory Radio Rear Port Reference** together. The factory **port A, port B, port C, and port D** referenced in the wiring instructions are shown in the **Factory Radio Rear Port Reference** section.

Step 1 — Factory Harness Connections

Connect the following power harness connectors to the matching connectors removed from the factory components.

- **24-pin Black Connector (labeled CL361)**

Connect the **24-pin black connector** labeled **CL361** on the power harness to the factory connector removed from **Port A** on the rear of the **factory radio module**.

- **26-pin Black Connector (labeled AMP Control Connector)**

① Connect the 26-pin black connector labeled **AMP Control Connector** on the power harness to the factory connector removed from Port B on the rear of the factory radio module.
② If the vehicle **is equipped with a factory amplifier**, locate the blue Amplifier Turn-on (+) wires on the 24-pin (CL361) harness and the 26-pin (AMP Control Connector) harness, then connect the two wires together.
③ Connect the joined Amplifier Turn-on (+) wires to the Amplifier Turn-on (+) wire on the RCA harness.
④ After making the connections, insulate the joined wires properly.
⑤ Make sure the amplifier setting in the Vinland car stereo is turned on.

- **54-pin (8-inch)/ 12-pin (4.3-inch) Screen Connector**

Select **one** of the following connectors based on the size of the **factory display**:
① **Factory 8-inch Display:** Connect the **54-pin black connector** on the power harness to the factory connector removed from **Port C** on the rear of the **factory display**.
② **Factory 4.3-inch Display:** Connect the **12-pin black connector** on the power harness to the factory connector removed from **Port D** on the rear of the **factory display**.

Backup Camera Connector

After connecting the correct screen connector above, locate the **yellow RCA backup camera video cable** on the other end of the selected connector.
Then connect this RCA cable to the **yellow backup camera RCA cable** on the **rear camera input harness** from the **10-pin port** on the rear of the Vinland car stereo.

IMPORTANT: Use only the screen connector that matches the factory display configuration. The backup camera RCA connection must be made from the same selected connector.

Step 2 — 6-pin USB Cable

The **factory USB port is not compatible** with this installation method. The USB Adapter is not used for this installation.
Instead, route the **6-pin USB cable** to the **passenger-side glove box** for convenient access.

Step 3 — Vinland Car Stereo Connections

- Radio Antenna

① Connect the cylindrical connector of the radio antenna adapter to the factory radio antenna removed from the factory radio.

② Then insert the L-shaped end of the radio antenna adapter into the FM/AM port on the rear of the Vinland car stereo.

- Connect the two 6-pin white connectors from the power harness to the two matching 6-pin ports on the rear of the Vinland control panel. (These two connectors are interchangeable and do **not** need to be connected to a specific left or right port.)
- Plug the 16-pin black connector from the Power Harness into the 16-pin port on the rear of the Vinland car stereo.

Step 4 — Test the System

Before reinstalling the trim panel, verify that the following functions operate normally before proceeding with the remaining installation steps:

- Power
- Audio
- Backup Camera
- Panel Buttons
- Climate Control Functions
- Radio Reception

Part 3 Reassembly



Step 1

Release the retaining clips, then transfer the factory cigarette lighter from the factory trim panel to the Vinland trim panel.



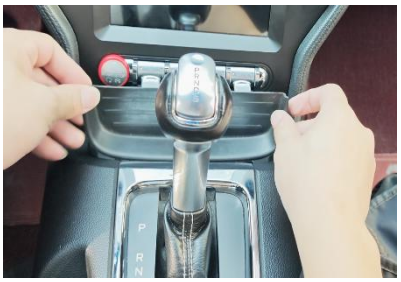
Step 2

Reinstall the car stereo into the dashboard, then secure it with four screws: two at the top and two at the bottom.



Step 3

Reinstall the black covers over the lower screws.



Step 4

Reinstall the black rubber pad in its original position.



Step 5

Reinstall the air vents panel into the dashboard.



Step 6

Reinstall the right small trim panel in its original position.

Vehicle Configuration Identification

Refer to the images below to identify your vehicle configuration. Vehicles equipped with manual climate controls use the button panel shown on the left (figure 1), while vehicles equipped with automatic climate controls use the button panel shown on the right (figure 2).

Important: On vehicles equipped with manual climate controls, the **MODE** button on the lower row of the Vinland trim panel is not functional after installation.



Figure 1



Figure 2

Button Operation Note

Important:
The lower row of buttons (refer to the red square in the left picture) on the Vinland car stereo is designed to operate only when pushed upward. Pressing downward does not activate the buttons.



Chapter 4 — CANBUS Protocol Settings Guide

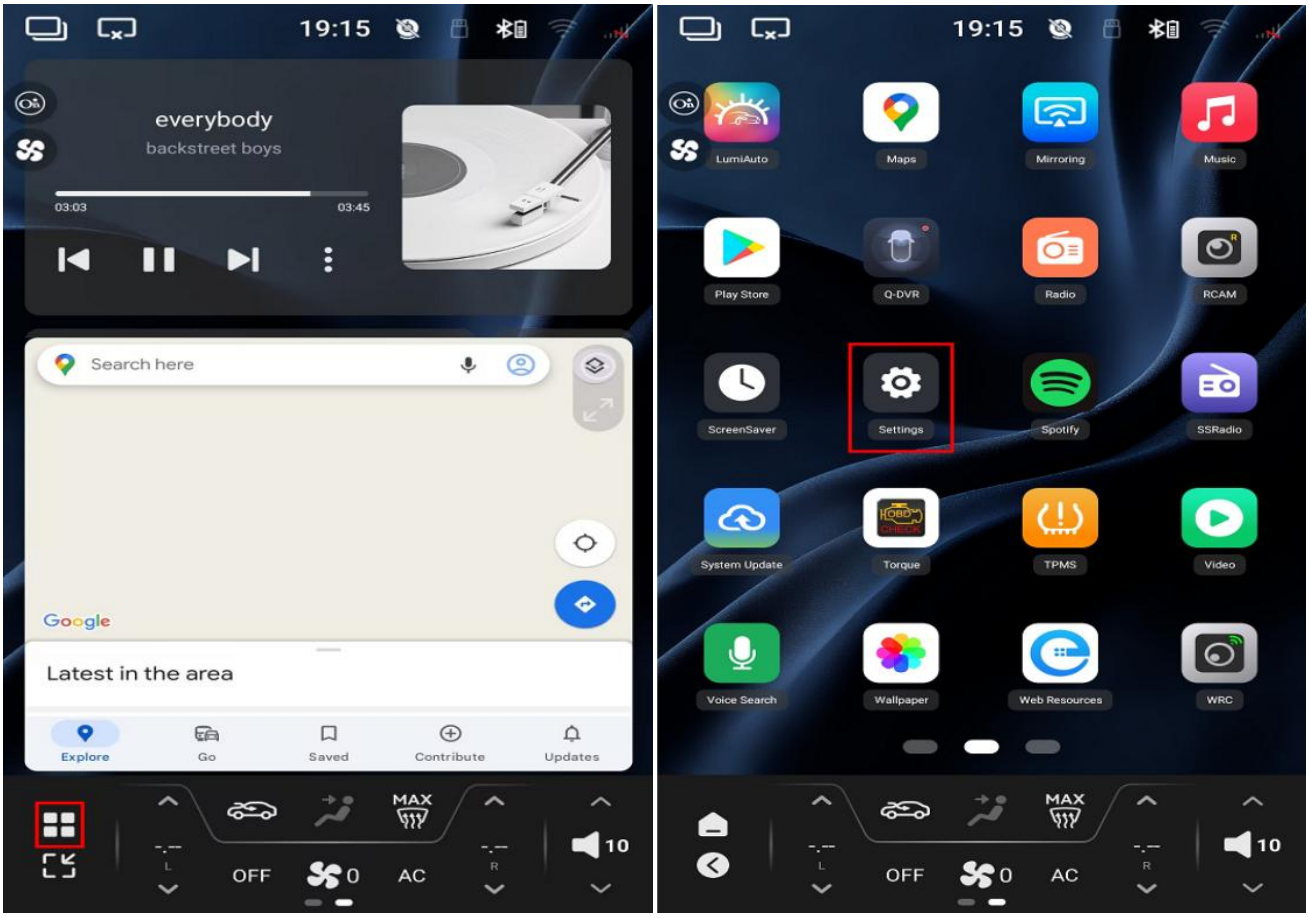
Select the Correct CANBUS Configuration

Before using the head unit, select the correct CANBUS configuration according to the vehicle's model year and factory equipment level.

Vehicle Configuration Setup Steps

Step 1 — Open Settings

From the home screen, tap the Apps/Menu icon to enter the application menu, then select Settings.



Step 2 — Select the CANBUS Configuration

Go to:

Settings → Assembly → CANBUS Settings

Then select the corresponding:

Provider → Band → Model → Year

according to the vehicle being installed.

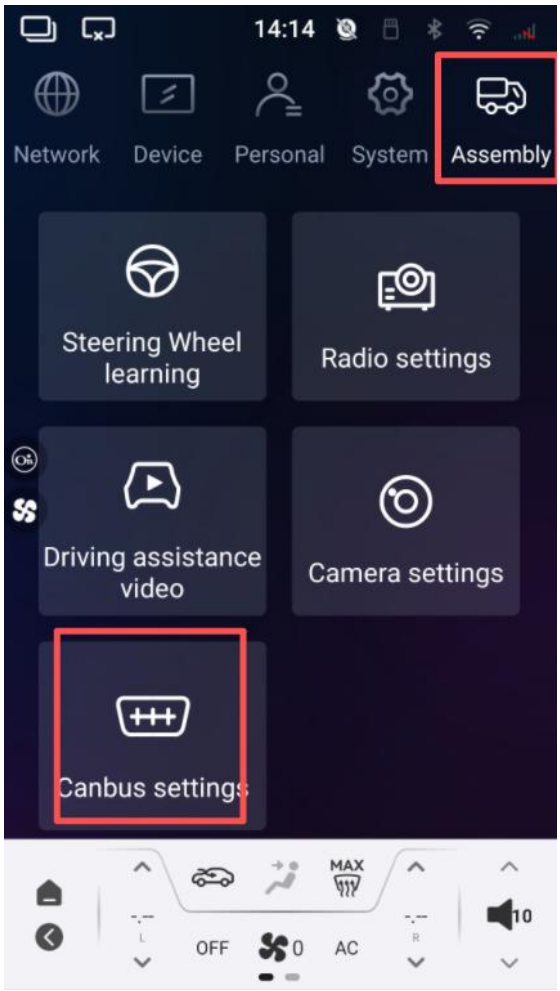
Choose the appropriate configuration level:

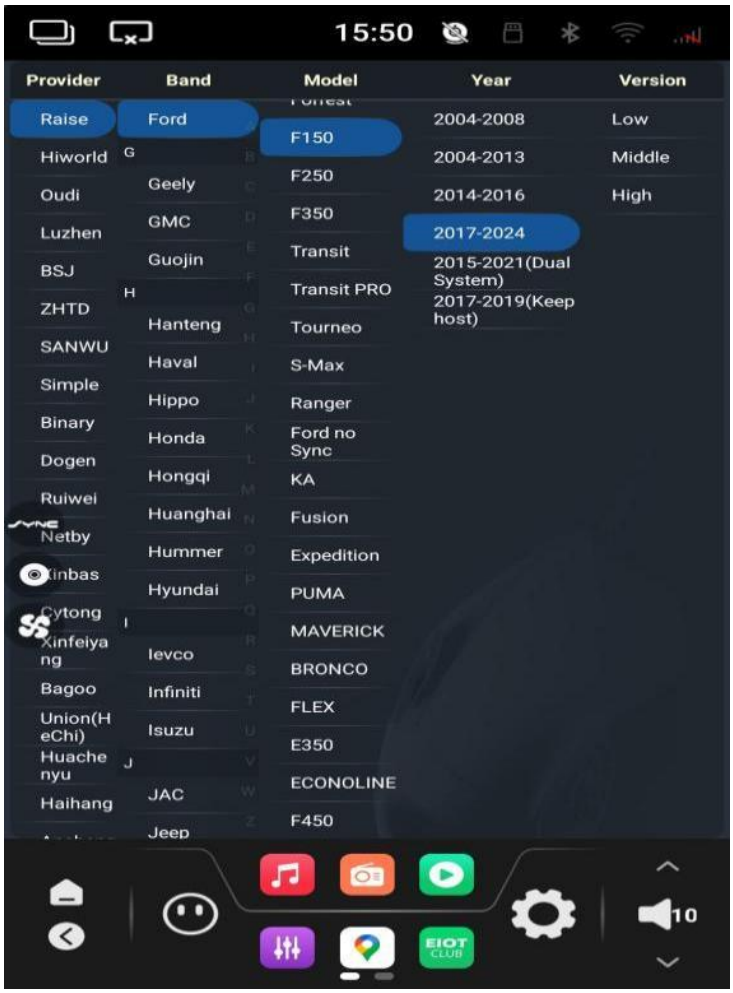
- Low

- Middle

- High

Make sure the selected setting matches the vehicle's actual factory configuration.





Chapter 5 — Troubleshooting

No.	Problem Description	Solution
1	The Vinland car stereo does not power on	① Verify that the **yellow B+ wire** in the **16-pin power plug** has constant 12V power. If no power is present, check the corresponding factory fuse and inspect the vehicle wiring for damage or an open circuit. ② Check that the 24-pin connector on the power harness and the 20-pin white connector for the CAN Bus decoder are each plugged into their correct matching connectors and fully seated. Make sure neither connection is loose or incomplete. ③ Verify that the **red ACC wire** from the **20-pin CAN Bus decoder connector** is providing the correct switched power output to the aftermarket car stereo.
2	Poor GPS Signal Reception	① Verify the GPS antenna is securely connected. The recommended mounting location is the interior A-pillar or above the center console. ② GPS functionality may be limited in high-rise density areas or by adverse weather.
3	Reverse Camera Malfunction	① If the vehicle is **not equipped with a factory backup camera** and no aftermarket camera has been installed, a backup camera must be added. Verify that the aftermarket camera video signal cable is securely connected and that the camera is receiving proper power. ② If the vehicle is equipped with a factory backup camera, verify that the backup camera video wire from the matching screen-side adapter is correctly connected to the backup camera video input on the aftermarket car stereo.

4	No Audio After Installation on Vehicles Equipped with a Factory Sony Amplifier	① Verify that the **amplifier control wire** on the **RCA harness** is properly connected to the matching amplifier control wire on the **AMP Control Connector**. Make sure the connection is insulated properly. ② Also make sure the **amplifier control setting** in the **Vinland** car stereo is turned on.
5	Poor or No Radio Reception	①. Verify that the antenna is properly and firmly connected.
6	DVR recording issues	① Use a USB 2.0 (or faster) card reader with a TF/MicroSD card rated U3 or higher. ② Connect the storage device to the USB1 cable only. The recording function will not work when connected to USB 2 or USB 3. ③ If the DVR app is missing, go to Settings > Assembly > Driving Assistance Video > “DVR Camera Mode”, then tap “Restart.”
7	No Bluetooth or Wi-Fi Signal, or Poor Reception	①. Verify that the 10-pin connector on the Rear Camera Input Cable (with integrated Wi-Fi and Bluetooth antennas) is properly plugged into the corresponding port on the rear of the car stereo.
8	CAN Bus / Vehicle Protocol Functions Not Working	①. Check that the **Protocol Port** cable on the power harness is fully connected to the **8-pin port** on the car stereo. Make sure the connector is not reversed and that no required connection has been left unplugged.
9	A/C Controls Not Responding	①. Verify that the factory A/C plugs are fully seated and securely locked into the corresponding A/C port on the rear of the Vinland car stereo. ②. Reboot the radio after installation.

10	Panel Buttons Not Responding	①. Verify that the 16-pin climate control connector and the 6-pin button connector are fully inserted into the matching ports on the rear of the Vinland control panel. Make sure both connections are secure and that no pins are loose or making poor contact.