



CUSTOM-FIT CAR STEREO FOR JEEP WRANGLER 2018-2023 GLADIATOR 2020-2023



VISION 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.

Retain Your Factory Features with Vinland Vision (via Maestro RR)

Upgrade without compromise—Vinland Vision, when paired with the Maestro RR module, 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.

Feature	Retention Status
Steering Wheel Controls	Retained
Navigation Outputs	Retained
Factory Amplifier	Retained
Vehicle Settings	Retained
Advanced Camera Features	Retained
Climate Control	Retained
Gauges	Retained
Park Assist	Retained
Vehicle Info	Retained
Backup Camera	Not retained

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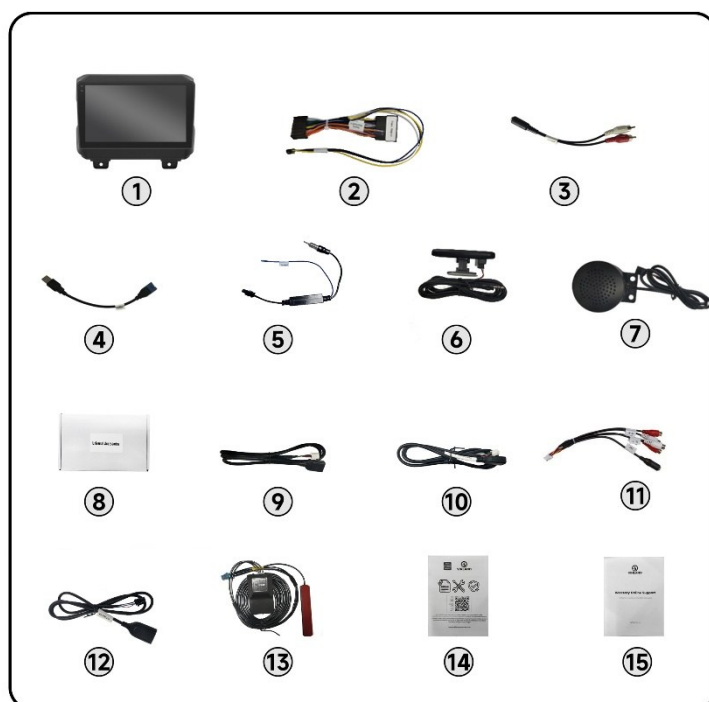
Chapter 1 Tools Needed & Packing List

Tools needed for installation: Plastic pry tools, Socket wrench (7mm or 10mm, depending on your stereo), Screwdriver, Electrical tape, Scissor, Wrench, Screw Tray/Box, 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 not covered in this manual, please get in touch with customer support.

- ① Car Stereo with Mounting Frame
- ② Power Adapter
- ③ Aux Adapter
- ④ Mini USB Adapter
- ⑤ CH3 Radio Antenna Adapter
- ⑥ External Microphone
- ⑦ Small Speaker
- ⑧ Universal Accessories Box
- ⑨ USB to 4 Pin: USB 1 Phone Link
- ⑩ USB to 6 Pin: USB 2 External Storage
- ⑪ Tri-band Audio with Remote Receiver
- ⑫ 4G SIM Slot Cable
- ⑬ 4-in-1 Antenna (GPS/WIFI/4G-ANT)
- ⑭ Product Manual
- ⑮ Warranty Support Online

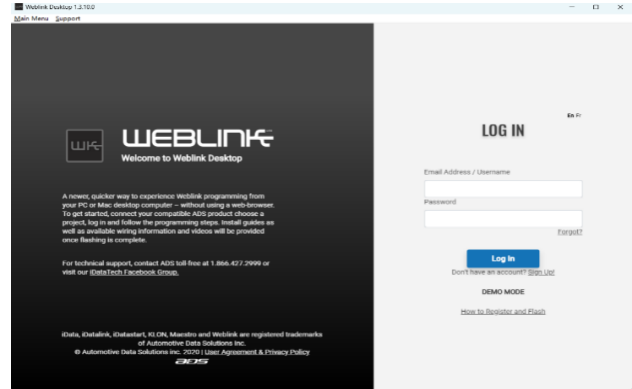
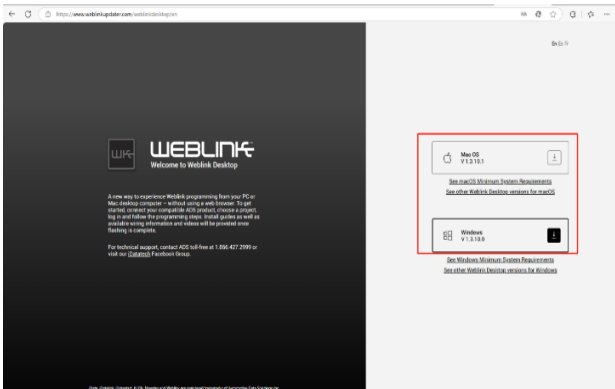


To Retain OEM Features

You'll need the Maestro RR interface and the vehicle-specific T-Harness (sold separately).

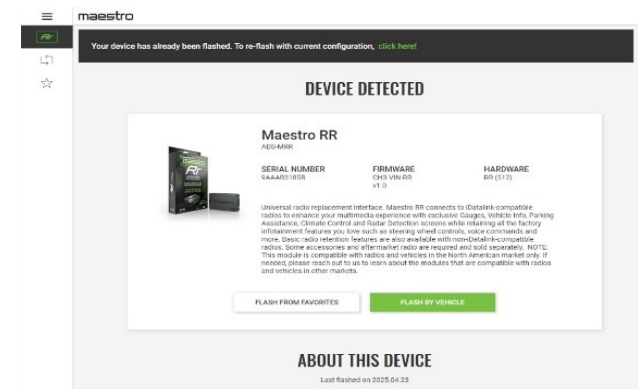
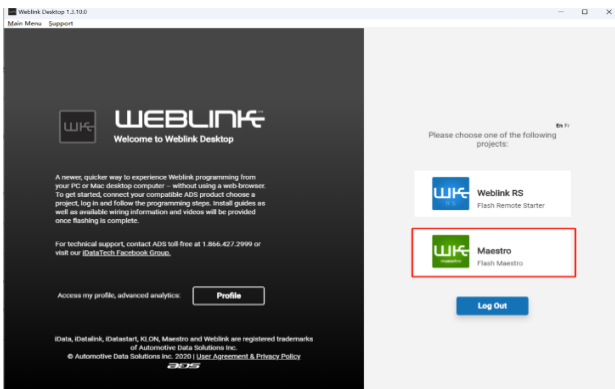
Chapter 2 Maestro RR Configuration

To ensure proper functionality and seamless integration with your vehicle, Weblink Desktop must be installed before setting up the Maestro RR. This software is required for device configuration, firmware updates, data synchronization, and remote management.



1. Go to <https://www.weblinkupdater.com/weblinkdesktop/en> and download the Weblink Desktop software.

2. Initiate a new Weblink account or sign in to an existing one.



3. Establish a connection between the Maestro RR module and your computer via the USB cable included in the package, then proceed by selecting the "Maestro Flash Maestro" option.

4. Weblink Desktop will automatically recognize the connected Maestro RR module and present its corresponding details (e.g., serial number and current firmware version). Subsequently, select "FLASH BY VEHICLE" to proceed with the configuration process.

5. Specify the vehicle and car stereo information by entering the required details in the sequence outlined below:

① Select the vehicle's production year and corresponding brand.

② Select the appropriate vehicle model and configuration parameters.

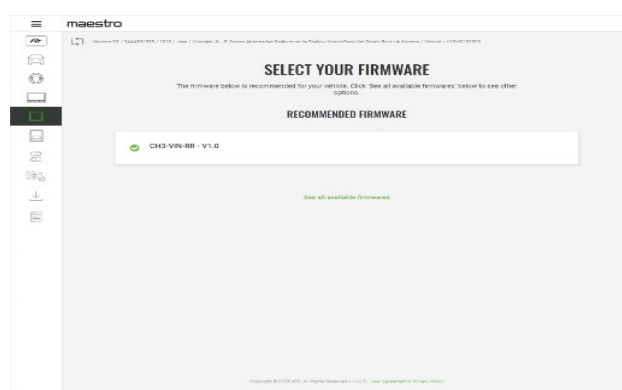
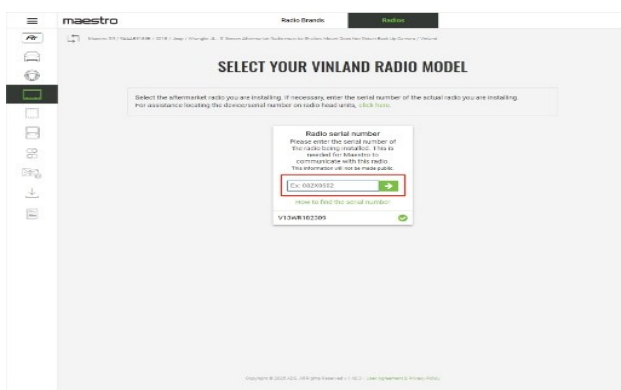
③ Select the appropriate steering wheel type for your vehicle.

④ Choose VINLAND as the designated brand of the car stereo.



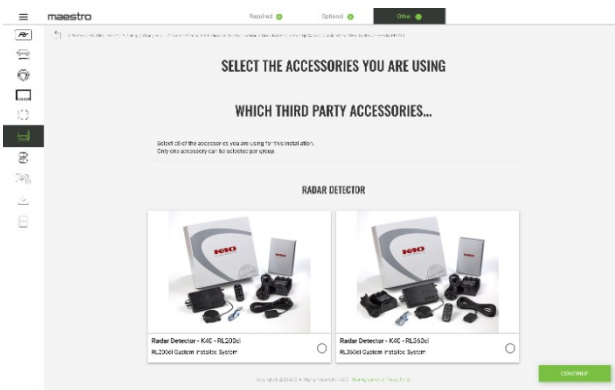
- ⑤ Select the exact model corresponding to the car stereo you have purchased.

Every car stereo carries a unique serial number—please locate and reference the one found on your car stereo.

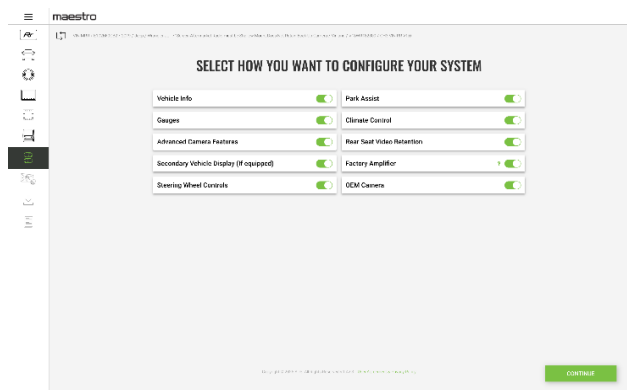


- ⑥ Enter the 8-digit serial number located on the rear of the car stereo. Please locate this number and input it as prompted.

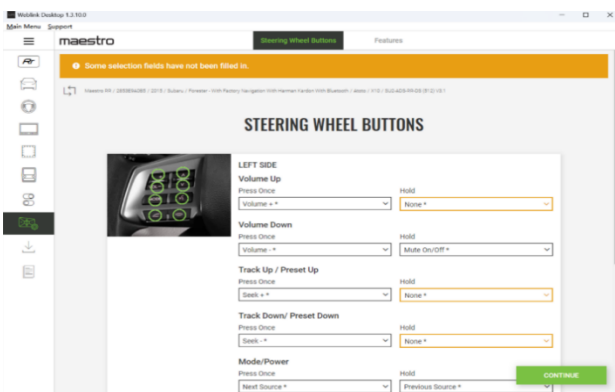
- ⑦ Select the correct firmware version from the available options.



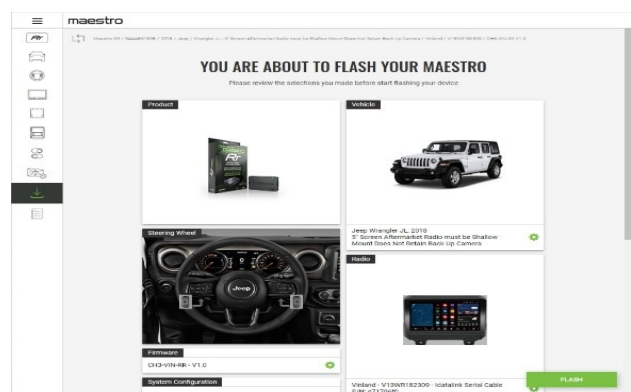
6. Select the accessories currently in use.



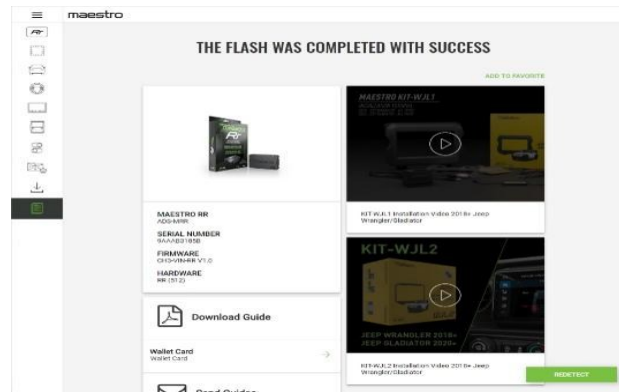
7. The system will automatically apply the recommended settings. If no adjustments are required, simply click “CONTINUE” to proceed to the next step.



8. The default steering wheel button functions will be displayed on the interface. If needed, adjust the button assignments according to user preferences and save the settings.

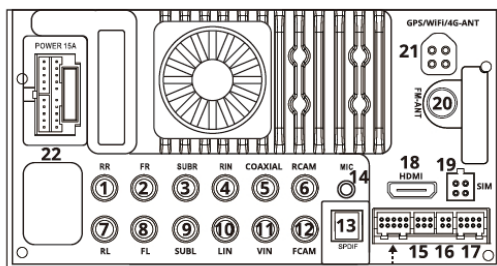


9. Verify the firmware version, user-defined settings, and vehicle or car stereo information. To begin updating the Maestro RR module, click “FLASH”. Ensure that neither the module nor the USB connection is interrupted during the process.



10. Once the firmware update is complete and the “Flash Successful” message appears, download the module’s installation guide and follow the remaining steps to complete the in-vehicle installation.

Chapter 3 Ports Function Overview



SWC
Front Right Midrange Output
Front Left Midrange Output
Front Left Tweeter Output
Front Right Tweeter Output

1. Rear Right Audio Output
2. Front Right Audio Output
3. Subwoofer Output Right
4. Right Channel Auxiliary Audio Input
5. Coaxial Output
6. Rear Camera Input
7. Rear Left Audio Out
8. Front Left Audio Out
9. Subwoofer Output Left
10. Left Channel Audio Input
11. Video Input
12. Front Camera Input
13. Optical SPDIF Output
14. Microphone Input
15. USB2 External Storage
16. USB1 Recording Storage
17. Rear Recording Camera Input
Front Recording Camera Input
18. HDMI Input
19. 4G LTE Adapter Interface
20. F-M-ANT-Radio Antenna input
21. 4-in-1 Antenna-4G/WiFi/GPS
22. Car Stereo Fuse

Chapter 4 Installation Process

1. Disassembly and Assembly

This part provides a brief overview of the procedures required to remove the factory stereo and install the new car stereo. The instructions are specifically designed for Jeep Grand Wrangler (2018-2023) & Gladiator (2020-2023) models and are intended to guide you through the process safely, accurately, and efficiently.

Part One Disassembly



Step 1

Switch off the vehicle's ignition.



Step 2

Use a plastic pry tool to gently loosen and release the climate control panel. Then, disconnect the wiring harness and antenna cable from the rear of the panel.



Step 3

Remove the two retaining screws from the bottom of the radio bezel.



Step 4

Grip the edge of the stereo bezel and gently pull to remove it.



Step 5

Remove the four screws securing the car stereo to the dashboard. Carefully pull out the car stereo and disconnect all wiring cables.

Part Two Cable Harness Connection

Refer to the detailed wiring connection steps provided below for different configurations of the Jeep Wrangler (2018-2023) & Jeep Gladiator (2019-2023).

Part Three Assembly



Install the Vision car stereo and its corresponding trim panel into the vehicle, then reinstall the climate control panel.

1. Cable Harness Connection

Step 1

① Connect the Main harness of the **HRR-CH3 T-harness** directly to the car stereo.

OR

② Connect the **HRR-CH3 harness** to the **Power Adapter**. Then connect the **Power Adapter** to the aftermarket car stereo.

Step 2

- Determine if the vehicle is equipped with a factory amplifier. Look for badges on the radio,

door panels and dash that indicate the presence of an amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug the female BLACK connector to the male BLACK connector of your HRR-CH3 T-harness.
- Plug the female WHITE connector to the male WHITE connector of your HRR-CH3 T-harness.

If the vehicle DOES have a factory amplifier:

- Plug the female BLACK connector to the male

WHITE connector of your HRR-CH3 T-harness.

- Plug the female WHITE connector to the male BLACK connector of your HRR-CH3 T-harness.
- Connect the factory radio harness to the HRR-CH3 T-harness.

Step 3

- Connect the black 2-pin connector from the extension cable to the CH3 main harness. Route the white ends to the CAN junction block in vehicle (see diagram for location). Unplug any one of the 2-pin white connectors in it. Insert the male white end from the Maestro harness into the junction block and plug the factory 2-pin connector back into the Maestro female white 2-pin.

Step 4

- Plug the **Mini USB Adapter** into vehicle, and the other end into **USB1** cable.

Step 5

- Plug the harnesses into the car stereo.
- Plug the **CH3 Radio Antenna Adapter** into the car stereo's **FM-ANT** port and Power ANT of the HRR-CH3 harness, and insert the other end of the **CH3 Radio Antenna Adapter** into the

vehicle.

- Connect the **AUX Cable** as follows:

Two RCA connectors → Plug into the car stereo's **RIN** and **LIN** ports.

Other end → Insert the audio jack from the **Audio Cable**.

- Connect the White connector of the USB1 cable to the aftermarket car stereo.

Step 6

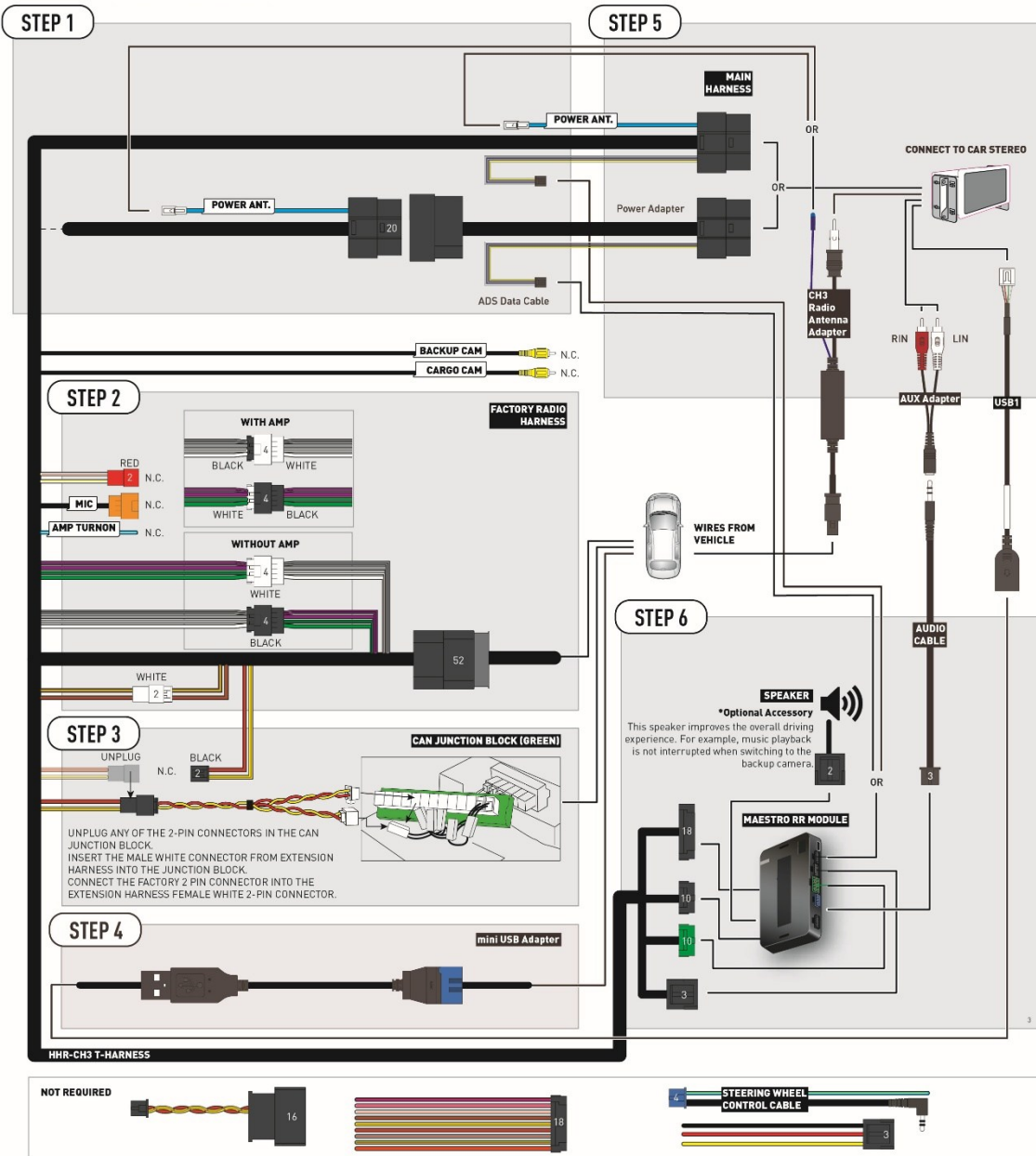
- **Male Connector:** If the ADS Data Cable (from either the **Power Adapter** or the Main Harness) is equipped with a male connector, plug the **ADS Data Cable** directly into the data port of Maestro RR module.

OR

Female Connector: If the ADS Data Cable (from either the **Power Adapter** or the Main Harness) is equipped with a female connector, use the extension cable. Connect the ADS Data Cable to the extension cable, and then plug the extension cable into the Maestro RR module.

- Plug the other end of **Audio Cable** into Maestro RR module.
- Connect all the harnesses to the Maestro RR module, then test your installation.

WIRING DIAGRAM



[Connection Diagram of 2018-2023 JEEP WRANGLER JL & 2020-2023 JEEP GLADIATOR]

Chapter 5 Troubleshooting Table

Before contacting technical support, please consult the troubleshooting table below to quickly resolve common issues.

IMPORTANT SAFETY WARNINGS:

- **Disconnect Power:** Always disconnect the vehicle's negative battery terminal and wait at least 5 minutes before handling any wiring to ensure the system is fully powered down.
- **Professional Installation Recommended:** To prevent damage to the device or vehicle, and to avoid personal injury, disassembly or repair should only be performed by a qualified technician.
- **Verify Compatibility:** Ensure all components—including the antenna, wiring harness, car stereo and firmware—are fully compatible with your specific vehicle model and regional standards.

No.	Problem	Solution
1	GPS signal reception issues	Check that the GPS antenna is securely connected. The recommended position is on the interior of the vehicle's A-pillar.
		GPS functionality may be limited in signal-obstructed environments. Please avoid parking your vehicle in places such as underground garages, mountainous areas, or other areas with poor signal reception.
2	No rearview image or failure to switch to rearview	Verify proper connection of the reverse detection wire and camera harness. Ensure all connections are secure and correctly seated.
3	The car stereo fails to power on	Verify that the B+ (constant 12V), ACC (ignition signal), and chassis ground wires are securely and correctly terminated.

		Use a multimeter to confirm that the voltage at the B+ and ACC terminals is within the operational range of 9V-16V. Incorrect wiring connection can lead to abnormal voltage readings, and prevent the stereo from powering on.
		If no voltage is detected on B+ or ACC, inspect the power supply circuit. Check the power cables for any visible damage or loose connections and verify the integrity of the fuse.
		If no voltage is present at the ACC terminal: (1) Verify that the ADS protocol module is properly connected to the computer. (2) Flash the module using software configured for the vehicle model. (3) Confirm that all wiring connections comply with the vehicle-specific installation manual.
4	Protocol communication malfunction	Connect the ADS interface module to the computer and ensure that the configuration matches the specific vehicle model. Then, flash the module using the appropriate software and a valid authorized serial number.
		Verify that all wiring connections align with the dedicated installation manual. Check for any loose or improperly seated connectors.
5	Car stereo and mobile device pairing failure	Verify if the mobile device is connected to other Bluetooth devices. If so, unpair all other devices to prevent signal interference.
		Verify cellular signal strength and network connectivity.

6	Touchscreen clock desynchronized from actual time	Verify the network connectivity.
		Verify that the location settings in the car stereo are correctly configured.
7	No audio from the car stereo speaker in Bluetooth telephony	Verify whether the vehicle is equipped with a factory amplifier. Follow the vehicle-specific configuration and perform all wiring according to the procedures outlined in this manual.