



CUSTOM-FIT MOTORCYCLE INFOTAINMENT SYSTEM FOR 2014-2023 Harley-Davidson® Touring Models



Rebel 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.

Contents

Chapter 1 — Required Tools and Package Contents	1
Chapter 2 — Maestro RR Configuration	2
Chapter 3 — Rear Port Overview	7
Chapter 4 — Installation.....	8
Part 1 Factory Radio Removal — Reference Procedures	8
Part 2 Wiring Connections	13
Wiring Instructions	13
Wiring Diagram	14
Part 3 Reassembly.....	15
Chapter 5 — Troubleshooting	17

Chapter 1 — Required Tools and Package Contents

Tools needed for installation:

Plastic pry tools, 7mm / 10mm Socket Set, Screwdriver, Electrical tape, Scissors, Wrench, Screw Tray, Cable Ties.

Warning:

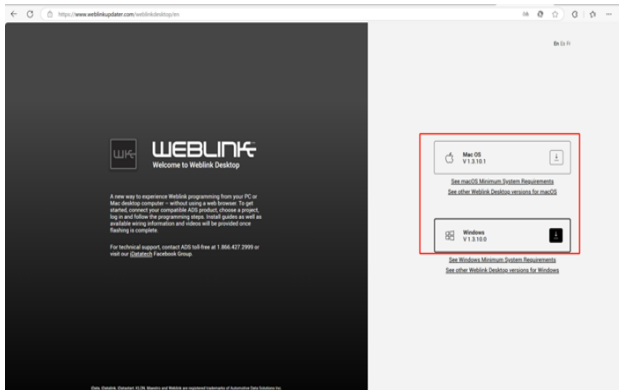
- We regularly release system updates that may introduce new features or changes not covered in this manual. Always refer to the latest release notes for comprehensive details.
- Download the latest Installation Manual from our website or contact customer support for assistance.
- We strive for comprehensive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

1. Rebel head unit (RBHT14)
2. Power Harness
3. 4G Antenna
4. USB Extension Cable
5. External Microphone
6. GPS Antenna
7. Front Camera
8. Rear Camera
9. 4G Right-angle Antenna
10. Wi-Fi Right-angle Antenna
11. Mounting Brackets
12. Cable Ties
13. M4 × 8 mm Mounting Screws
14. M4 × 5 mm Mounting Screws
15. Mounting Adhesive Pad*2
16. Warranty Card
17. User Card

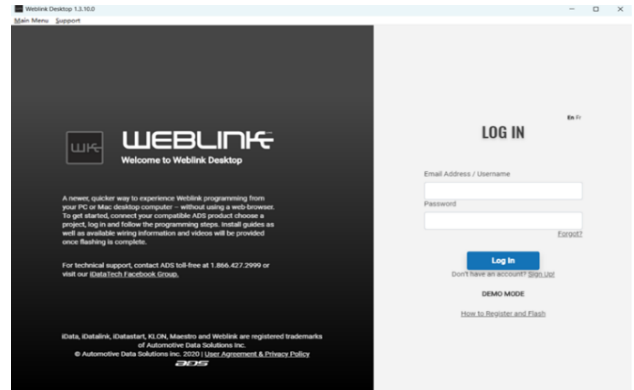


Chapter 2 — Maestro RR Configuration

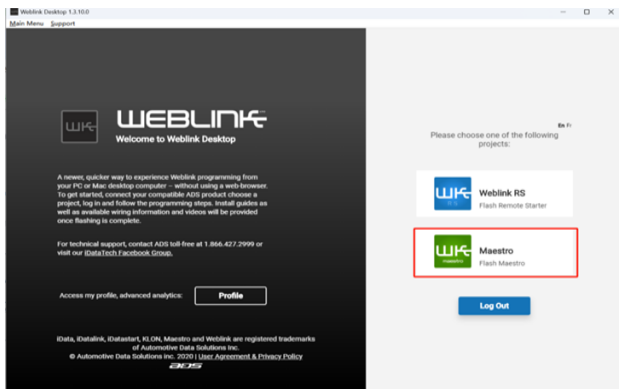
To ensure proper functionality and seamless integration with your vehicle, install **Weblink Desktop** before setting up the Maestro RR. Weblink Desktop is used to flash the Maestro firmware that matches your vehicle and radio configuration.



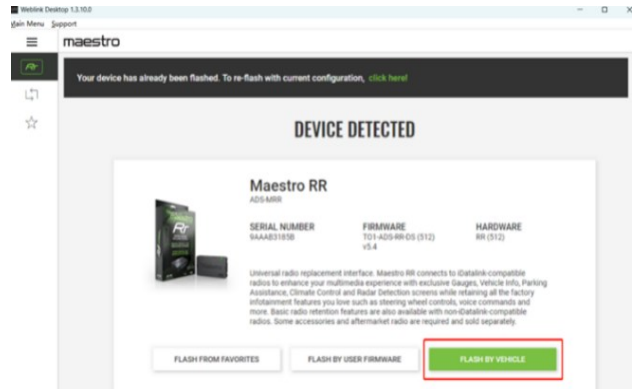
1. Go to <https://www.weblinkupdater.com/weblinkdesktop/en> and download the Weblink Desktop software.



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

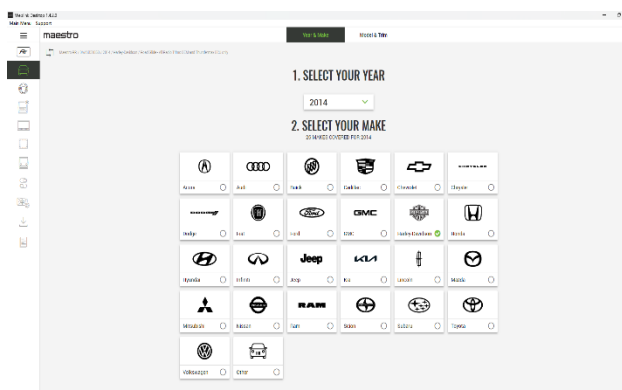


3. Connect the Maestro RR module to your computer using the included USB cable, then select the "Flash Maestro" option.

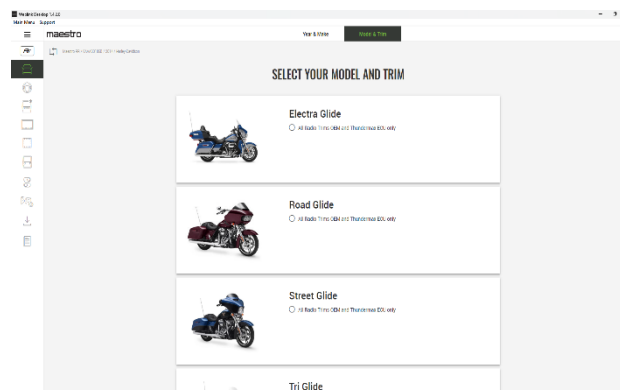


4. Weblink Desktop will automatically detect the connected Maestro RR module and display its corresponding details, such as the serial number and current firmware version. Then, select "FLASH BY VEHICLE" to proceed with the configuration process.

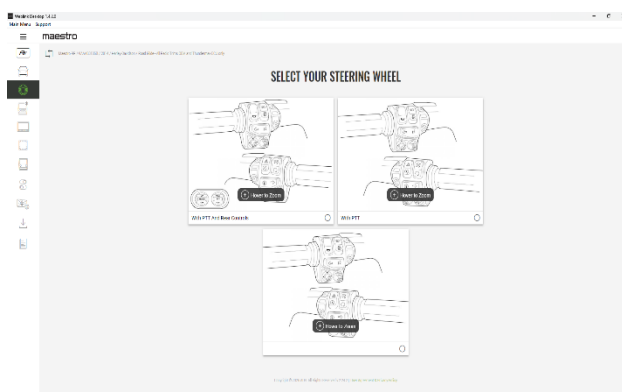
Specify the vehicle and car stereo information by entering the required details in the sequence outlined below:



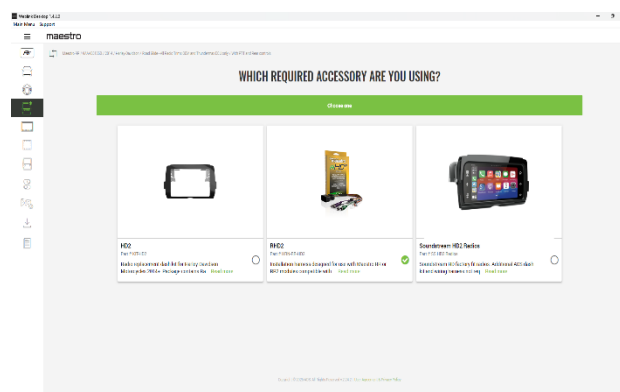
5. Select the vehicle model year and make.



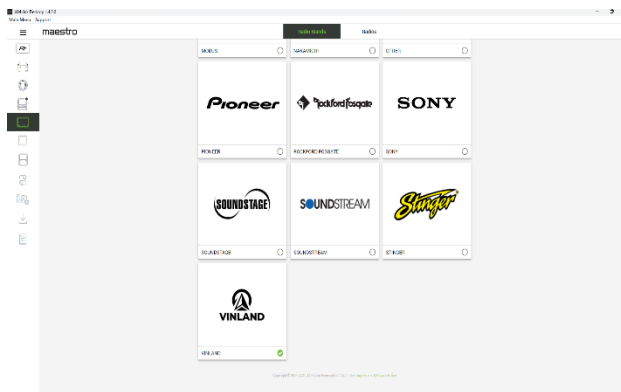
6. Select the appropriate vehicle model.



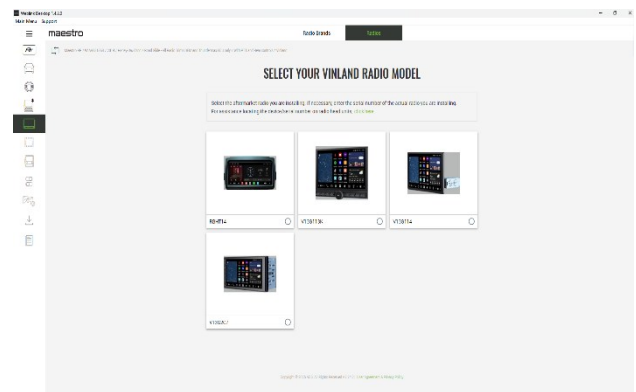
7. Select the appropriate steering wheel for your vehicle's make and model.



8. Select required accessories for the Maestro RR interface.



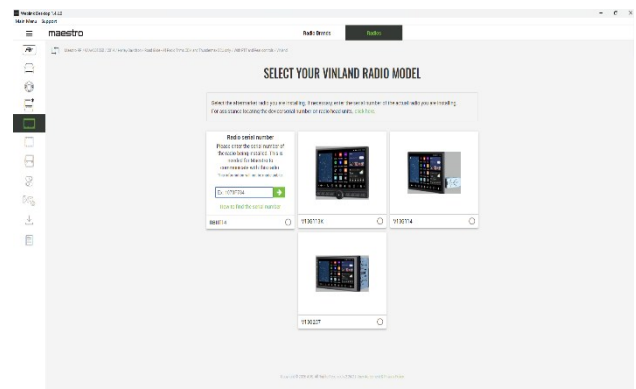
9. Choose VINLAND as the brand of the car stereo.



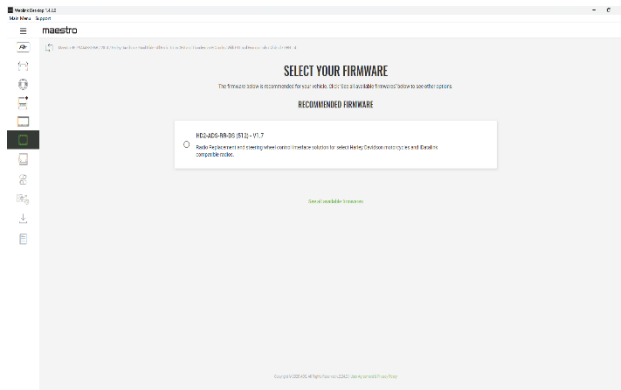
10. Select the exact model corresponding to the car stereo you have purchased.



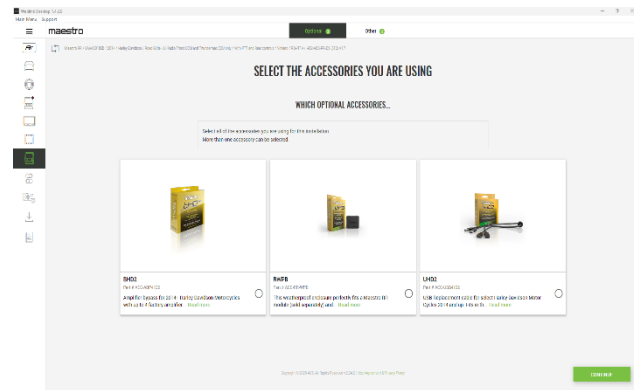
11. Every car stereo carries a unique serial number—please locate and reference the one found on your car stereo.



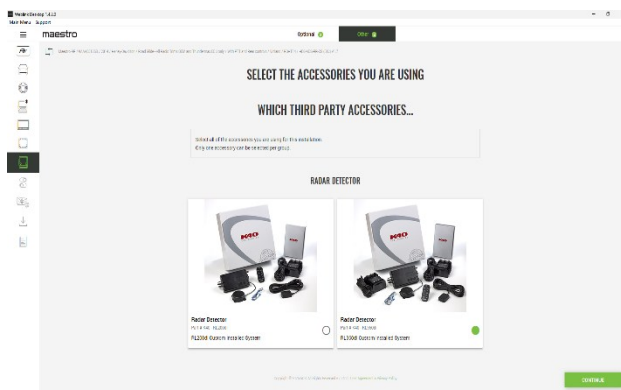
12. Enter the 8-digit serial number located on the rear of the car stereo.



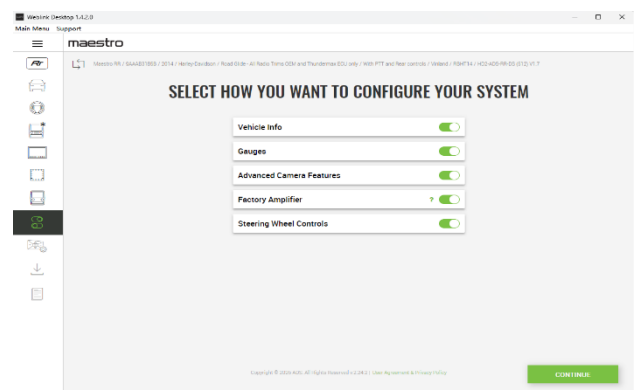
13. Select the correct firmware version from the available options.



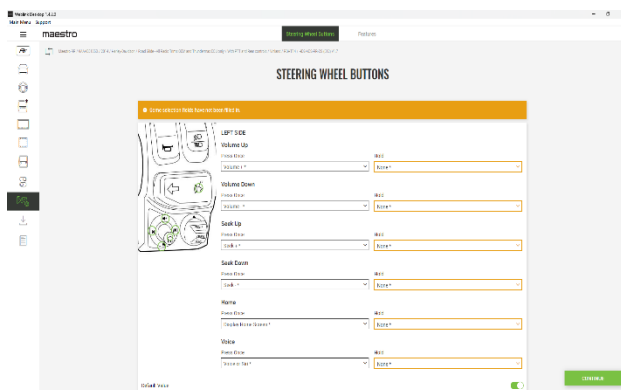
14. Select the accessories currently in use.



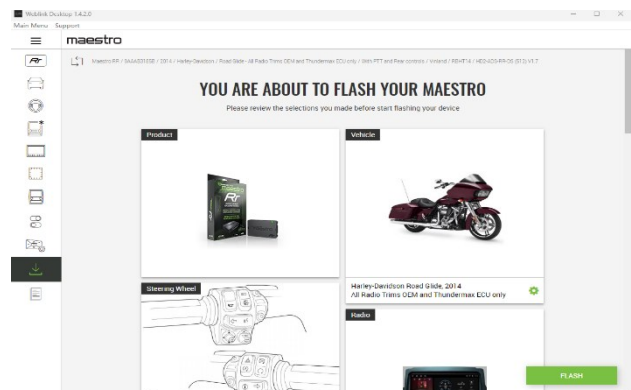
15. Select the accessories currently in use.



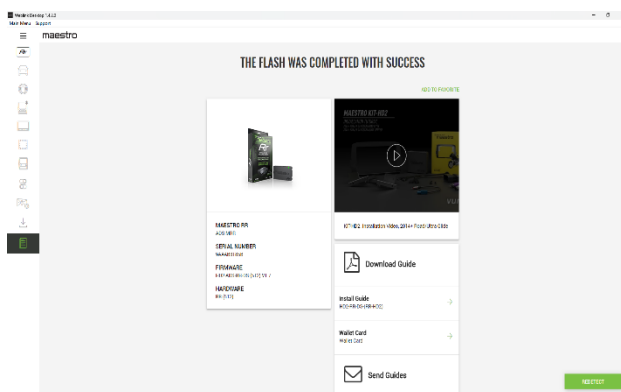
16. The system will automatically apply the recommended settings. If no adjustments are required, simply click "CONTINUE" to proceed to the next step.



17. 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.



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



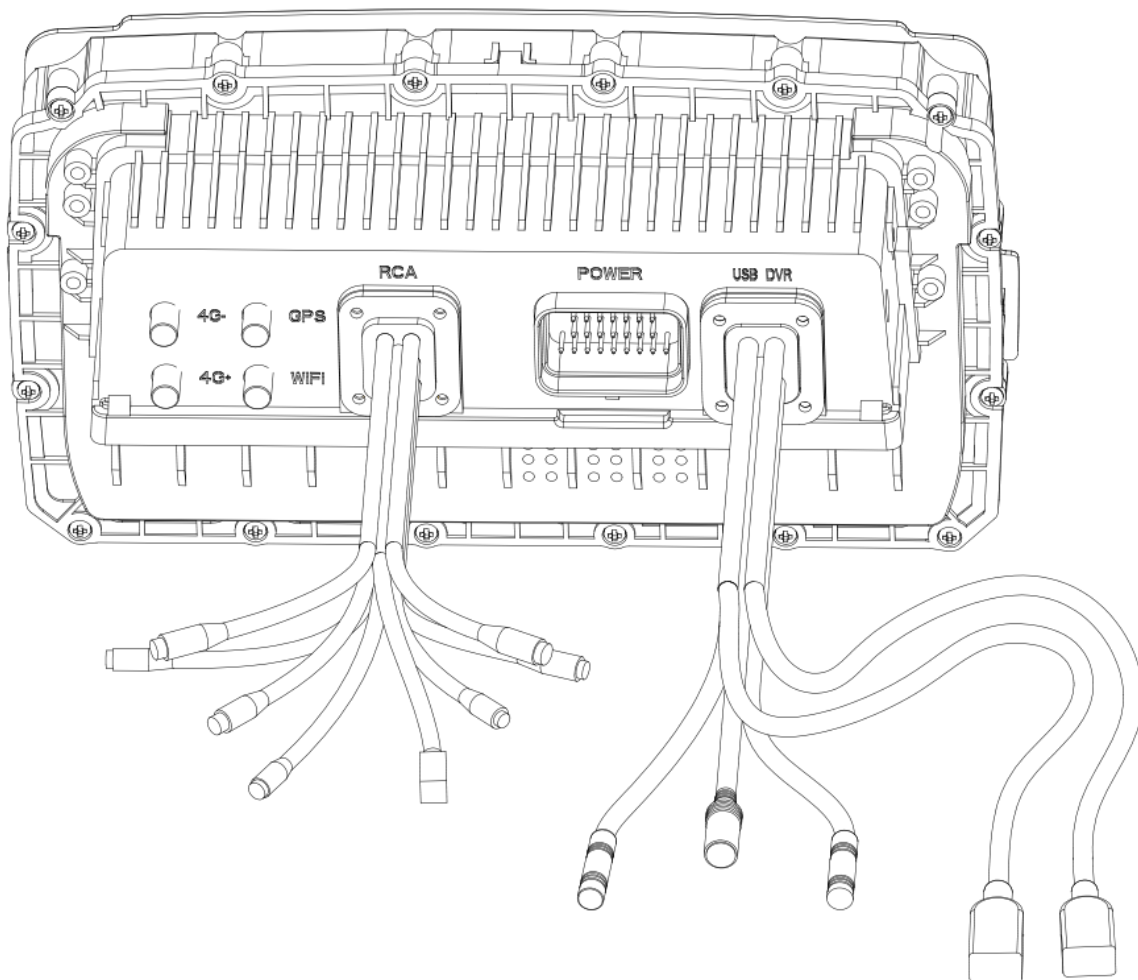
19. Once the firmware update is complete and the "Flash Successful" message appears, download the module's installation guide and follow the remaining steps to complete the in-vehicle installation.

Chapter 3 — Rear Port Overview

The illustration below identifies the rear ports on the Rebel head unit. Use this reference together with the wiring instructions in the following chapter when connecting accessories and wiring harnesses.

Most ports can be identified by the labels printed on the unit. Use the antenna guide below to identify the correct 4G and Wi-Fi antenna connections:

- Connect the **4G right-angle antenna** to the port labeled **4G-**.
- Connect the **4G antenna** to the port labeled **4G+**.
- Connect the **Wi-Fi right-angle antenna** to the port labeled **Wi-Fi**.



Chapter 4 — Installation

Part 1 Factory Radio Removal — Reference Procedures

WARNING

To prevent accidental motorcycle startup, electrical damage, or personal injury, disconnect the negative battery cable before beginning installation.

Important: Boom! Audio Integration

This procedure applies only to motorcycles equipped with a factory **Harley-Davidson Boom! Audio amplifier**.

If the motorcycle does not have a factory **Boom! Audio amplifier**, skip this section and proceed to the disassembly instructions below.

To retain the factory amplifier, record its **three-digit Bin EQ code** before disconnecting the battery or removing the factory radio:

- ①. Set the Engine **Stop/Run** switch on the right handlebar control to **RUN**.
- ②. Press and hold the **Power/Mute** button on the factory radio until the radio menu turns orange.
- ③. Select **Accept** to enter the diagnostic menu.
- ④. Go to **Audio > EQ** and write down the three-digit **Bin EQ code**. You will need this code when configuring the Rebel head unit.
- ⑤. Turn the ignition switch to **OFF** before disconnecting the battery or removing the factory radio.

The following **Street Glide** and **Road Glide** procedures are provided as reference examples. Disassembly procedures may differ for other compatible Harley-Davidson Touring models. Refer to the appropriate Harley-Davidson service manual for model-specific fairing and factory-radio removal instructions.

Street Glide

Important: Retain all factory screws removed from the Harley-Davidson motorcycle during the following disassembly procedures. Keep the screws organized by location, as they will be required for reassembly.



Step 1

Using a T27 Torx driver, remove the three outer fairing screws located beneath the windshield. Remove the windshield and place it, along with the removed screws, in a safe location. These components will be reused during reassembly.

Note: After removing the windshield, loosely reinstall the center screw by hand. A few turns are sufficient. This will help prevent the outer fairing from shifting or falling during the next step.



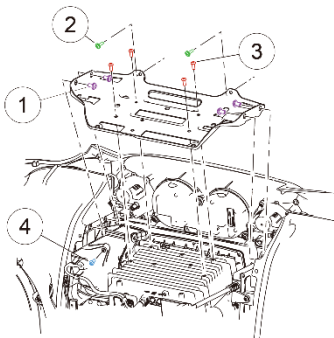
Step 2

Using a T27 Torx driver, remove the four inner fairing screws located near the turn signal mounting brackets and the speaker openings.



Step 3

Stand in front of the motorcycle over the front fender and support the outer fairing. Remove the center outer fairing screw reinstalled in the previous step, then carefully pull the fairing away only far enough to access the wiring. Disconnect the headlamp and accessory harnesses, then place the fairing on a clean, protected, flat surface to prevent scratches or damage.



Step 4

Remove the upper support bracket by removing the 11 screws shown in the illustration. Screw colors in the illustration are for identification purposes only. Actual screws are not color-coded.

- ①. Remove four 5/32 Allen screws securing the bracket to each speaker enclosure.
- ②. Remove two T25 screws securing the bracket to the inner fairing adjacent to the gauge cluster.
- ③. Remove four T25 screws securing the bracket to the head unit chassis.
- ④. Remove one T25 screw securing the bracket to the media compartment.

Road Glide



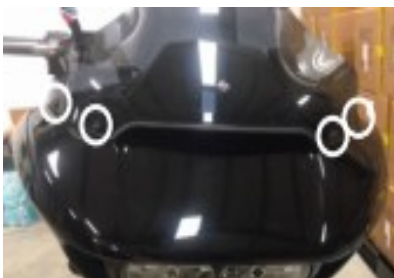
Step 1

Detach each turn signal/indicator light by removing the adjacent Allen socket screw, using a 3/16" Allen head driver. Store these screws in a safe place for re-installation later.



Step 2

Remove four inner fairing bolts using a T25 Torx driver. Two inner fairing bolts are located below each glove box, adjacent to each wind deflector. Store these screws in a safe place for installation later.



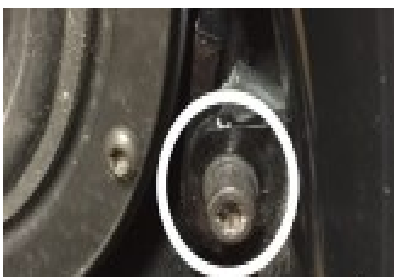
Step 3

Using a 1/8-inch hex wrench or Phillips screwdriver, remove the four wind deflector mounting screws and remove the wind deflector. Pull the factory vent straight upward to release it from the retaining clips, then remove it. Retain the removed screws for reassembly.



Step 4

After removing the vent, locate and unplug the 3-pin wire harness for the left and right side turn signal indicator. These harnesses are located on each side of the head unit.



Step 5

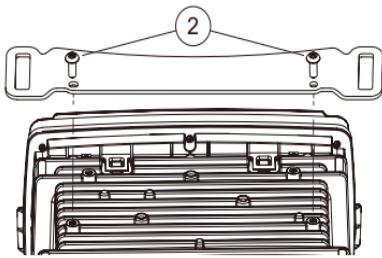
Using a T27 Torx driver or 5/32-inch Allen driver, remove the additional inner fairing bolt located behind each speaker grille. To remove each speaker grille, insert a plastic trim tool between the inner fairing and the grille edge, then carefully pry the grille outward. Once these bolts are removed, the outer fairing can be separated from the inner fairing.

Road Glide (continued)



Step 6

Stand in front of the motorcycle over the front fender and support the outer fairing. Carefully pull the fairing away from the motorcycle only far enough to access the wiring. Disconnect the headlamp and accessory harnesses, then place the fairing on a protected, flat surface to prevent damage.



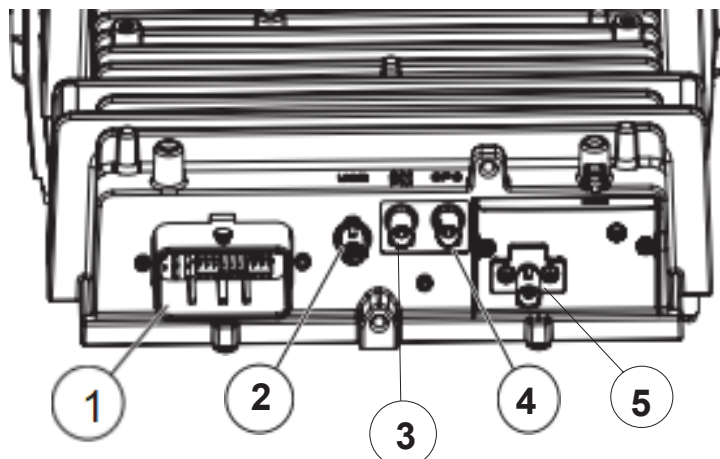
Step 7

Remove two upper support bracket screws using a 3/16" Allen driver. Store the bracket and screws in a safe place for re-installation later.

Shared Factory Radio Disconnection and Removal

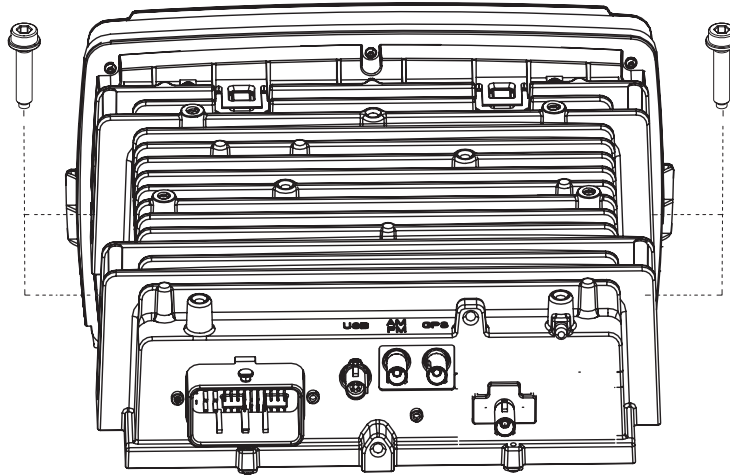
The following factory radio disconnection and removal steps apply to both Street Glide and Road Glide models after the model-specific fairing removal steps are complete.

1. Insert a small flathead screwdriver to depress the locking tab on the main wiring harness connector. While the tab is depressed, pull the connector straight out of the socket.
2. Depress the locking tab with a small flathead screwdriver, then disconnect the USB cable from the receptacle.
3. Depress the locking tab with a small flathead screwdriver, then disconnect the radio antenna cable from the socket.
4. Depress the locking tab with a small flathead screwdriver, then disconnect the GPS antenna cable from the socket on the rear of the factory radio.
5. Depress the locking tab with a small flathead screwdriver, then disconnect the SiriusXM antenna cable from the socket on the rear of the factory radio.



Factory Radio Removal

6. Using a 3/16-inch hex wrench, remove the four screws securing the head unit, two on each side. Set the screws aside for reinstallation. Then pull the head unit assembly upward and forward to remove it.



Part 2 Wiring Connections

Wiring Instructions

Important

- ①. The RCA harness and DVR input cable are pre-connected to the appropriate ports on the rear of the Rebel head unit from the factory.
- ②. Using the rear port reference in Chapter 3, connect all applicable accessory cables, such as the 4G antenna, GPS antenna, and other required accessories, before proceeding with the wiring connections.

Step 1

Connect the **48-pin black connector** from the power harness to the matching connector removed from the factory radio.

Step 2

Connect the 34-pin black connector from the power harness to the power port on the rear of the Rebel head unit (RBHT14).

Step 3

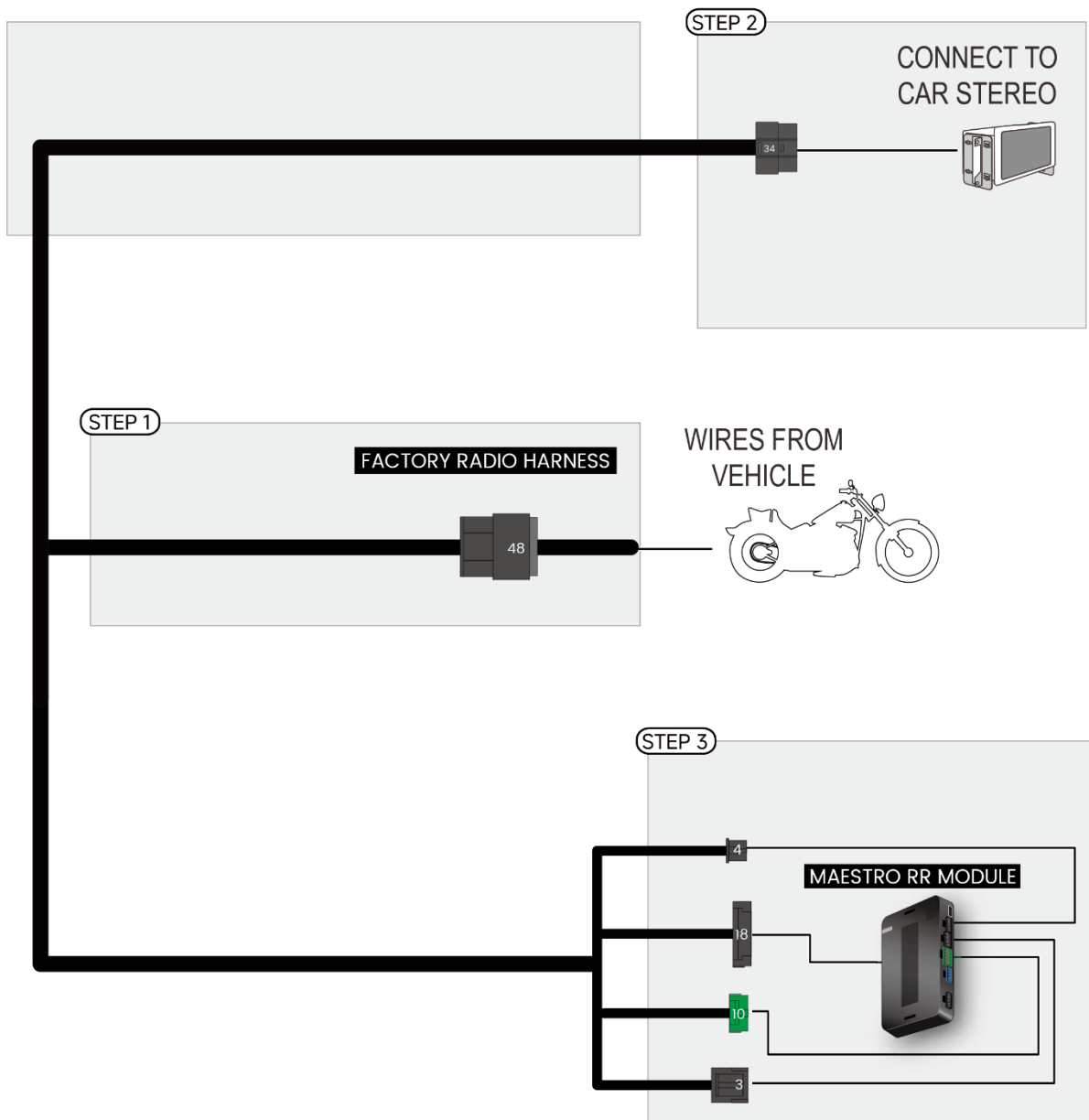
Connect the **18-pin, 10-pin, 3-pin, and 4-pin connectors** from the power harness to the matching ports on the **Maestro RR module**.

OEM Amplifier Configuration

To retain the OEM amplifier, enter the **Bin EQ number** from the menus of the OEM radio:

- In the setup menu of the radio, go to: **OEM Setup > Vehicle Settings > Amp Settings > Audio System**.
- Enter the **Bin EQ number** recorded from the factory radio menus one digit at a time, by tapping the number spaces on the screen.
- Tap “Confirm” to save the setting.

Wiring Diagram

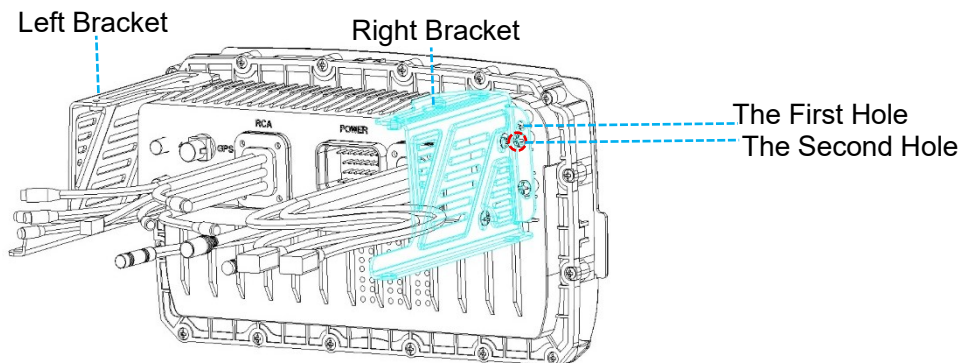


Part 3 Reassembly

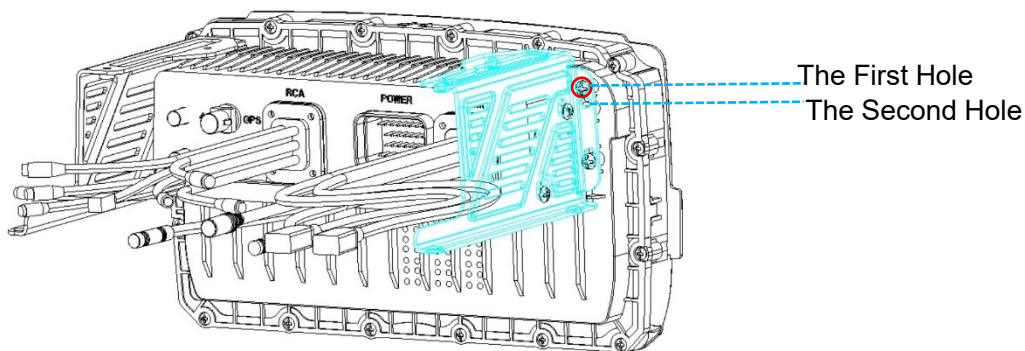
1. Bracket Installation

Two mounting options are available depending on the motorcycle configuration.

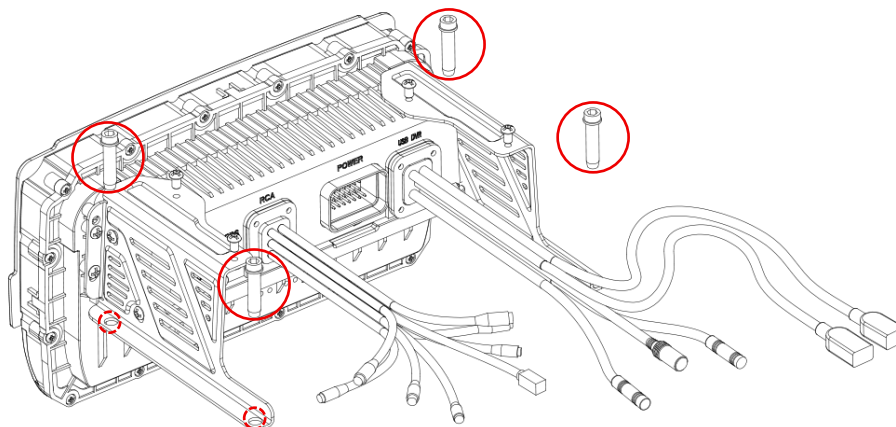
- ①. **Option A (Figure A):** Align the **second hole** on the bracket with the **second hole** on the Rebel head unit. Secure the left and right brackets with the supplied **M4 screws** using a Phillips screwdriver.



- **Option B (Figure B):** Align the **first hole** on the bracket with the **first hole** on the Rebel head unit. Secure the left and right brackets with the supplied **M4 screws** using a Phillips screwdriver.

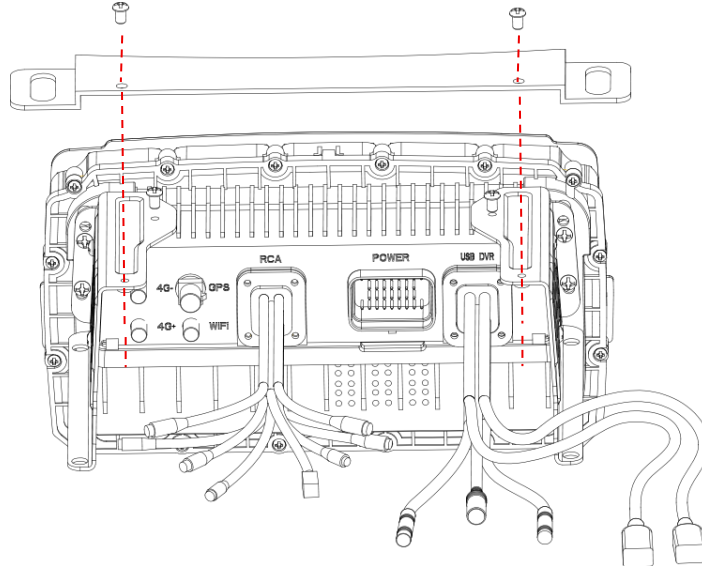


2. Use the four bolts removed from the factory radio to secure the Rebel head unit to the original mounting locations. Tighten the bolts with a 3/16-inch hex wrench.

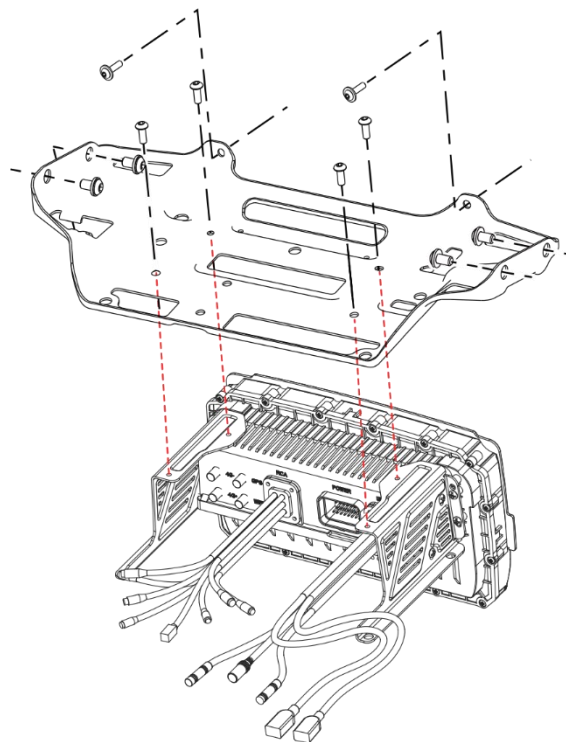


3. Upper Bracket Installation

Carefully inspect all wiring connections and bracket mounting points to ensure all connectors are fully seated and all brackets are securely installed. Using the supplied M4 screws, reinstall the fairing brackets to the corresponding mounting holes on the top of the Rebel head unit (RBHT14).



[Road Glide]



[Street Glide]

4. Fairing Reinstallation

Finally, reinstall the fairing by reversing the model-specific removal procedure for your motorcycle. Make sure all previously removed fasteners and connectors are properly secured.

Chapter 5 — Troubleshooting

No.	Problem Description	Reason and Solution
1	GPS signal reception issues	①. If the factory GPS antenna is used, verify GPS performance after installation. If GPS reception is weak, positioning is inaccurate, or the location drifts, disconnect the factory GPS antenna and use the supplied GPS antenna instead.
		②. If using the supplied GPS antenna, verify that it is installed in an unobstructed location with the antenna facing upward toward the sky. Reposition the antenna if necessary to improve GPS signal reception.
		③. GPS signal strength may be reduced, or GPS positioning may be temporarily unavailable when the motorcycle is parked in an underground garage or an area with heavy obstructions. Move the motorcycle to an open area with a clear view of the sky. GPS reception should return to normal once signal conditions improve.
2	No Image from Front or Rear Camera	①. Verify that the camera video cables are connected to the correct ports and fully seated. ②. Make sure all camera-related connections are secure and free of loose or poor-contact connections.
3	The Rebel head unit fails to power on	①. Use a multimeter to confirm that the voltage at the B+ and ACC terminals is within the operational range of 11V~13.5V. Incorrect wiring connections can lead to abnormal voltage readings and prevent the stereo from powering on.

		②. Verify that the Maestro RR module is properly connected and has been flashed or updated with the correct firmware for the motorcycle model being installed.
4	Maestro RR Communication Failure	①. Connect the Maestro RR to a computer and open Weblink Desktop. Confirm that it is flashed for the correct motorcycle, VINLAND Rebel model and eight-digit head unit serial number. Reflash the module if necessary.
		②. Turn the ignition OFF and verify that all connections between the motorcycle, Maestro RR and Rebel head unit are correct and fully seated.
		③. Turn the ignition ON and check the Maestro RR status LED. If there is no LED activity or an error indication remains, check the power and harness connections, then reflash the module.
		④. If the problem continues, contact VINLAND Technical Support with the motorcycle information, head unit serial number and a photo or video of the Maestro RR status LED.
5	Rebel head unit and mobile device pairing failure	①. Check whether the mobile device is currently connected to another Bluetooth device. If so, disconnect it from the other device, then try pairing it with the Rebel head unit again.
		②. Make sure both devices are within the effective connection range, preferably within 5 m (16 ft). If the devices are too far apart, the target device may not appear in the search results or may fail to connect.

6	Clock Time Is Incorrect or Not Synchronized	①. Verify that the network connection is working properly. If the function depends on location data, make sure GPS positioning has been completed before testing again. ②. Check the Date and Time settings in the Rebel head unit. Make sure the Region and Time Zone match your current location.
---	--	---