



CUSTOM-FIT CAR STEREO FOR Subaru Outback 2010-2014



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
OEM Camera	Fully Retained
Steering Wheel Controls	Fully retained
Navigation Outputs	Fully retained
Factory Amplifier	Fully retained
Advanced Camera Features	Retained
Gauges	Fully retained
Vehicle Info	Fully 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 contact customer support.

- ①. Car Stereo with Mounting Frame
- ②. Power Adapter
- ③. TO Radio Antenna Adapter
- ④. USB Adapter
- ⑤. External Dual MIC
- ⑥. Universal Accessories Box
- ⑦. USB to 4 Pin: USB 1 Phone Link
- ⑧. USB to 6 Pin: USB 2 External Storage
- ⑨. Tri-band Audio with Remote Receive
- ⑩. 4G SIM Slot Cable
- ⑪. SIM Slot (not included)
- ⑫. 4-in-1 Antenna (GPS/WIFI/4G-ANT)
- ⑬. Product Manual
- ⑭. Warranty Online Support

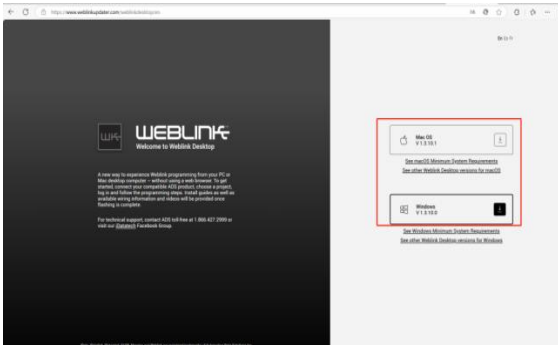


To Retain OEM Features

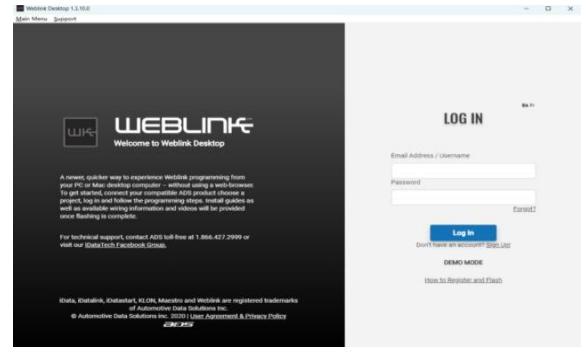
You'll need the Maestro RR interface and the vehicle-specific T-Harness (sold separately).

Chapter 2 Maestro RR Configuration

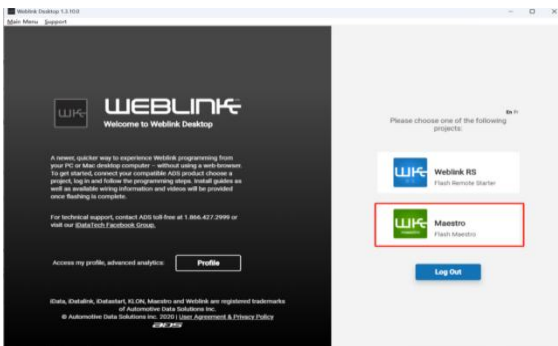
To ensure optimal operation and seamless communication with your vehicle, Weblink Desktop must be installed before using the Maestro RR. This software is essential for device configuration, data transfer, and remote management.



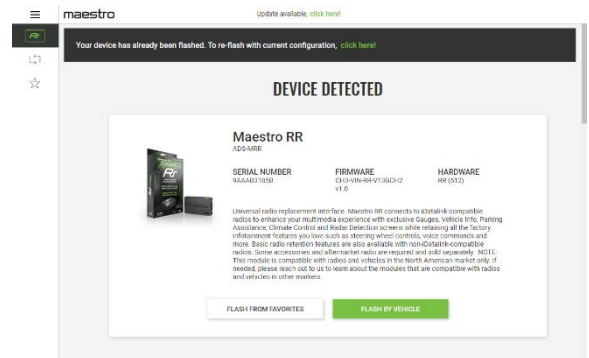
1. Go to <https://www.weblinkupdater.com/weblinkdesktop/en> and download the Weblink Desktop software.



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

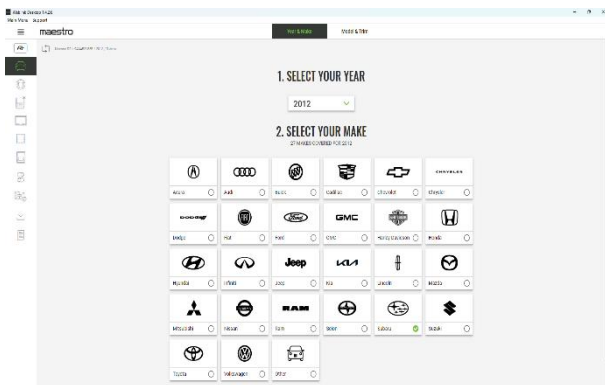


3. Connect the Maestro RR module to your computer using the included USB cable, then select the "Flash Maestro" option.

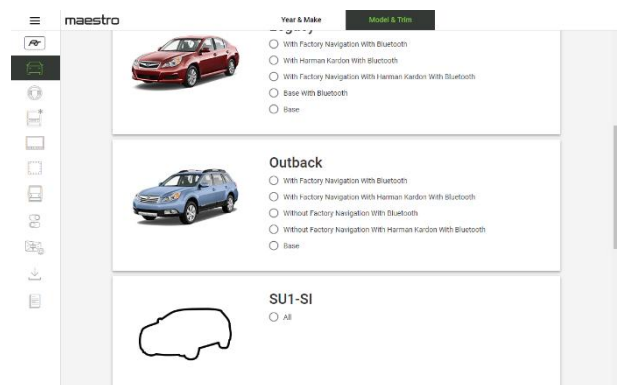


4. Weblink Desktop will automatically detect the connected Maestro RR module and display its corresponding details, such as the serial number and current firmware version. Then, select "FLASH BY VEHICLE" to proceed with the configuration process.

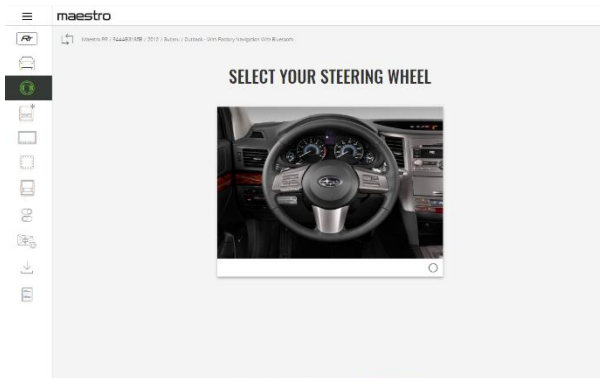
5. Specify the vehicle and car stereo information by entering the required details in the sequence outlined below:



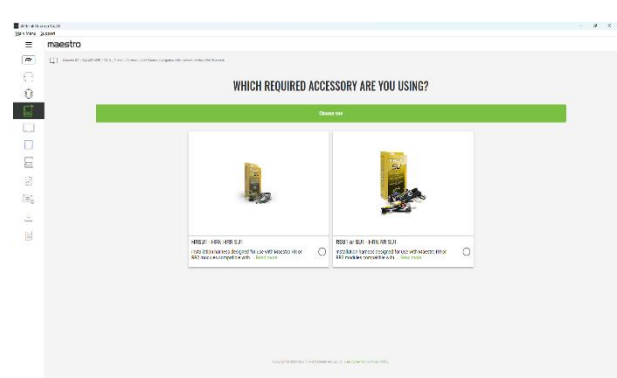
① Select the vehicle model year and make.



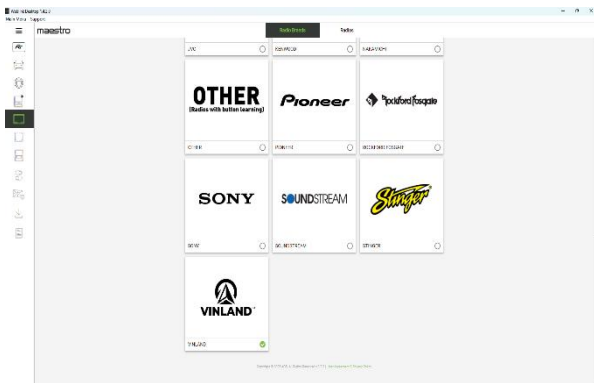
② Select the appropriate vehicle model.



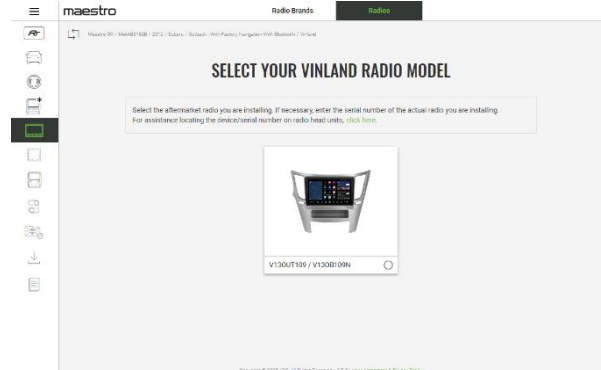
③ Select the appropriate steering wheel for your vehicle's make and model.



④ Select required accessories for the Maestro RR interface.



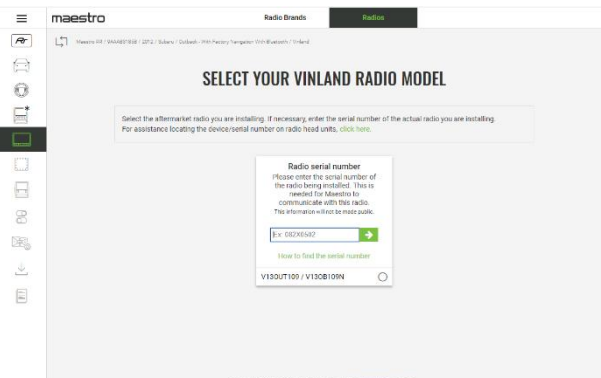
⑤ Choose VINLAND as the brand of the car stereo.



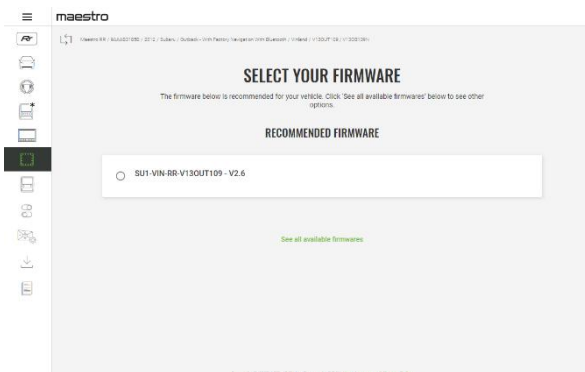
⑥ Select the exact model corresponding to the car stereo you have purchased.



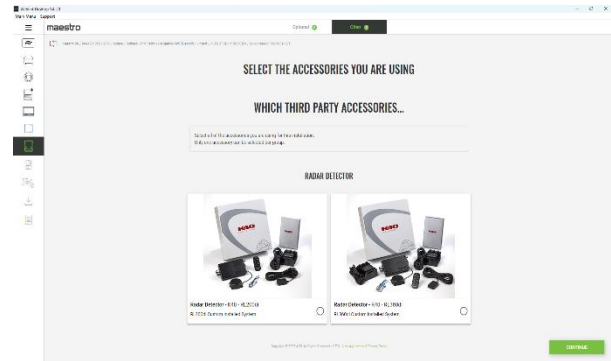
Every car stereo carries a unique serial number—please locate and reference the one found on your car stereo.



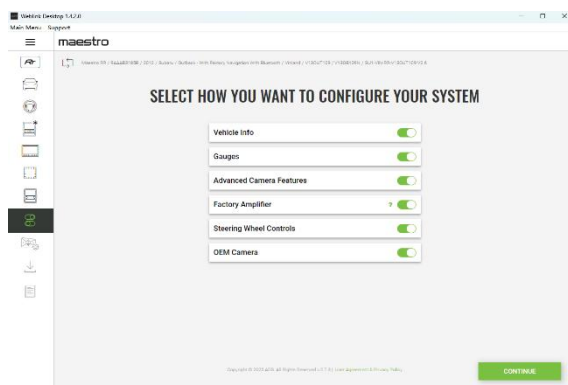
⑦ Enter the 8-digit serial number located on the rear of the car stereo.



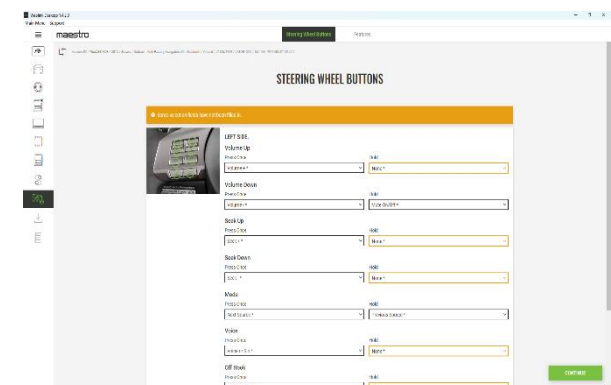
⑧ Select the correct firmware version from the available options.



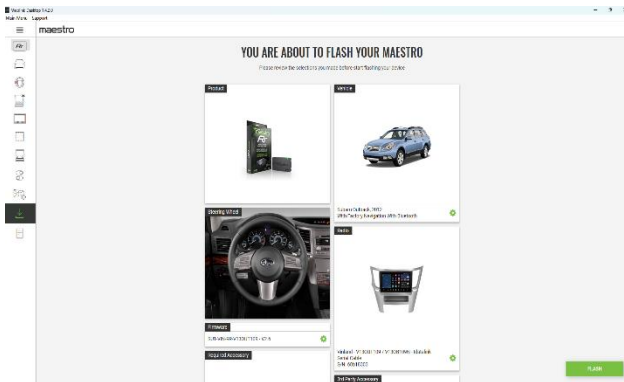
6. Select the accessories currently in use.



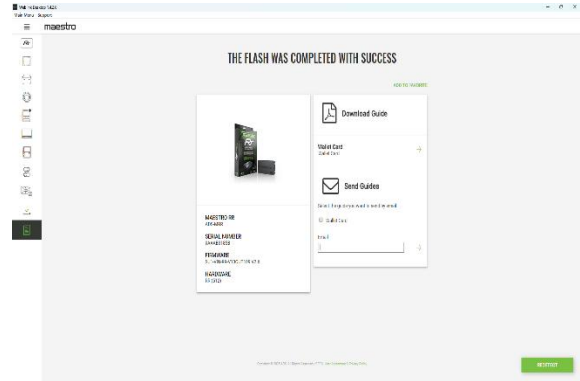
7. The system will automatically apply the recommended settings. If no adjustments are required, simply click "CONTINUE" to proceed to the next step.



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.

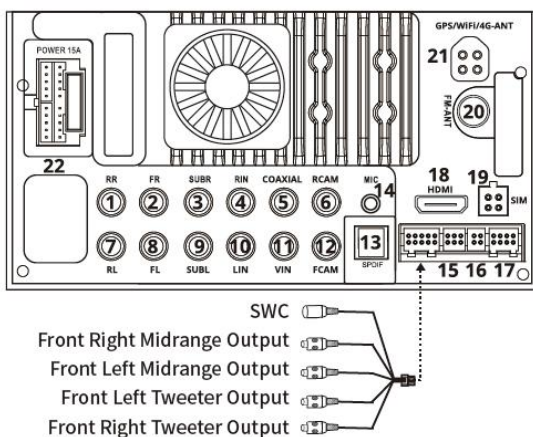


9. Verify the firmware version, user-defined settings, and vehicle or car stereo information. To begin updating the Maestro RR module, click “FLASH”. Ensure that neither the module nor the USB connection is interrupted during the process.



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



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 Subaru Outback (2010-2014) models and are intended to guide you through the process safely, accurately, and efficiently.

Part 1 Disassembly



Step 1

Switch off the vehicle's ignition.



Step 2

Gently insert a plastic trim removal tool into the seam around the factory trim panel. Carefully pry outward to release the retaining clips, then remove the trim panel.



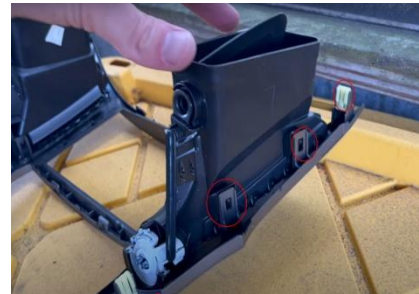
Step 3

Use a Phillips screwdriver to remove the four screws securing the factory CD player.



Step 4

Remove the factory CD player and disconnect the wiring harness from the rear of the unit.



Step 5

Remove both air vents and the retaining clips from the factory panel, and set them aside for reuse.

Part 2 Cable Harness Connection

Refer to the detailed wiring connection steps provided below for different configurations of the Subaru Outback (2010-2014).

Part 3 Assembly



Install the Vision car stereo together with the appropriate panel kit into the dashboard.

2. Cable Harness Connection

Follow the wiring instructions that match your vehicle's configuration for installation.

Subaru Outback Base (2010-2014)

STEP 1

- Connect the Main Harness of HRR-SU1 T-harness directly to the aftermarket car stereo.

OR

Connect the 20-pin connector of HRR-SU1 T-harness to the Power Adapter, then plug the other end of Power Adapter into the car stereo.

STEP 2

- Assemble the SU1 T-harness as shown in the wiring diagram and connect it to the factory radio harness.

STEP 3

Manual transmission only

- Connect the PURPLE/WHITE wire from the RED plug (OBDII cable) to the vehicle's reverse BROWN/YELLOW wire in the driver kick panel or to pin 22 of 35 pin connector, right of steering column (refer to vehicle wire chart).

STEP 4

- Plug the red and black 2-pin connectors of OBDII cable to red and black connectors on main SU1 harness.
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

- Plug the harnesses into the aftermarket car stereo.
- Connect the backup cam cable into the aftermarket car stereo (if equipped).
- Connect the two RCA plugs of AUX Adapter cable to the car stereo's RIN (Red) and LIN (White) ports.
- Insert the Audio cable into the 3.5 mm audio jack of the AUX Adapter.

STEP 6

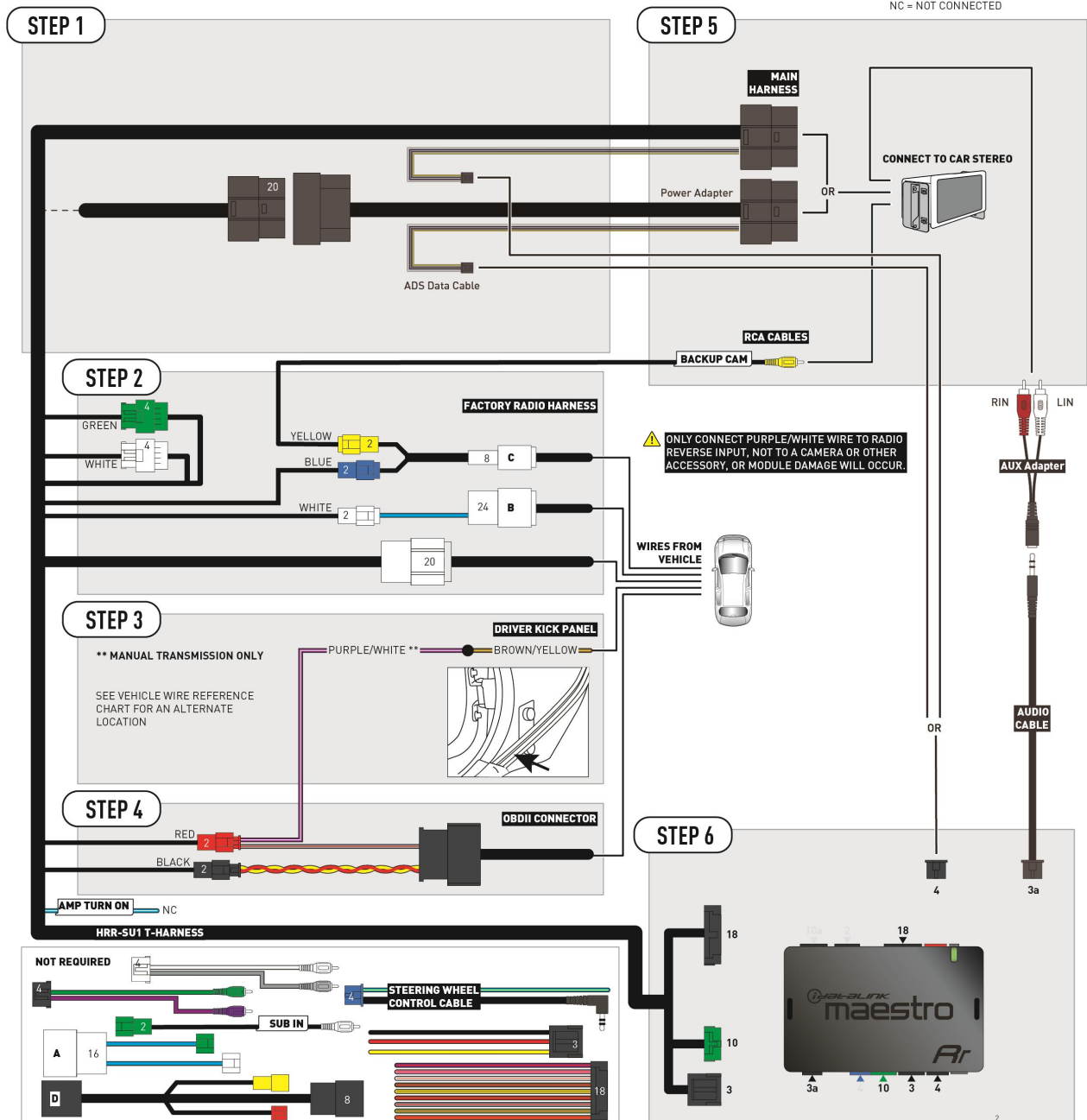
- Plug the ADS Data Cable of HRR-SU1 T-harness into the 4-pin port of the Maestro RR module.

OR

Plug the ADS Data Cable of HRR-SU1 T-harness into the 4-pin port of the Maestro RR module.

- Connect the other end of Audio cable to the Maestro RR module.
- Connect all the harnesses to the Maestro RR module then test your installation.

WIRING DIAGRAM



[Connection Diagram of Subaru Outback Base 2010-2014]

Subaru Outback with Amplifier with NaV 2010-2012

STEP 1

- Connect the Main Harness of HRR-SU1 T-harness directly to the aftermarket car stereo.

OR

Connect the 20-pin connector of HRR-SU1 T-harness to the Power Adapter, then plug the other end of Power Adapter into the car stereo.

STEP 2

- Assemble the SU1 T-harness as shown in the wiring diagram and connect it to the factory radio harness.

STEP 3

Manual transmission only

- Connect the PURPLE/WHITE wire from the RED plug (OBDII cable) to the vehicle's reverse BROWN/YELLOW wire in the driver kick panel or to pin 22 of 35 pin connector, right of steering column (refer to vehicle wire chart).

STEP 4

- Plug the red and black 2-pin connectors of OBDII cable to red and black connectors on main SU1 harness.

- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

- Plug the harnesses into the aftermarket car stereo.
- Plug the speaker RCA cables into the aftermarket car stereo outputs.
- Connect the backup cam cable into the aftermarket car stereo (if equipped).
- Insert the two RCA plugs of AUX Adapter into the car stereo's RIN (Red) and LIN (White)
- Insert the Audio cable into the 3.5 mm audio jack of the AUX Adapter.

STEP 6

- Connect the ADS Data Cable of the HRR-SU1 T-harness to the 4-pin port of the Maestro RR module.

OR

Connect the ADS Data Cable of the Power Adapter to the 4-pin port of the Maestro RR module.

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

STEP 1

STEP 2

STEP 3

STEP 4

STEP 5

STEP 6

NOT REQUIRED

WIRING DIAGRAM

MASTRO AR

CONNECT TO CAR STEREO

AUX Adapter

AUDIO CABLE

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

WIRING DIAGRAM

MASTRO AR

CONNECT TO CAR STEREO

AUX Adapter

AUDIO CABLE

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

WIRING DIAGRAM

MASTRO AR

CONNECT TO CAR STEREO

AUX Adapter

AUDIO CABLE

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

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Subaru Outback with Amplifier without NaV 2010-2011

STEP 1

- Connect the Main Harness of HRR-SU1 T-harness to the aftermarket car stereo.

OR

Connect the 20-pin connector of HRR-SU1 T-harness to the Power Adapter, then plug the other end of Power Adapter into the car stereo.

STEP 2

- Assemble the SU1 T-harness as shown in the wiring diagram and connect it to the factory radio harness.

STEP 3

Manual transmission only

- Connect the PURPLE/WHITE wire from the RED plug (OBDII cable) to the vehicle's reverse BROWN/YELLOW wire in the driver kick panel or to pin 22 of 35 pin connector, right of steering column (refer to vehicle wire chart).

STEP 4

- Plug the red and black 2-pin connectors of OBDII cable to red and black connectors on main SU1 harness.

- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 5

- Plug the harnesses into the aftermarket car stereo.
- Plug the speaker RCA cables into the aftermarket car stereo outputs.
- Connect the backup cam cable into the aftermarket car stereo (if equipped).
- Insert the two RCA plugs of AUX Adapter into the car stereo's RIN (Red) and LIN (White)
- Insert the Audio cable into the 3.5 mm audio jack of the AUX Adapter.

STEP 6

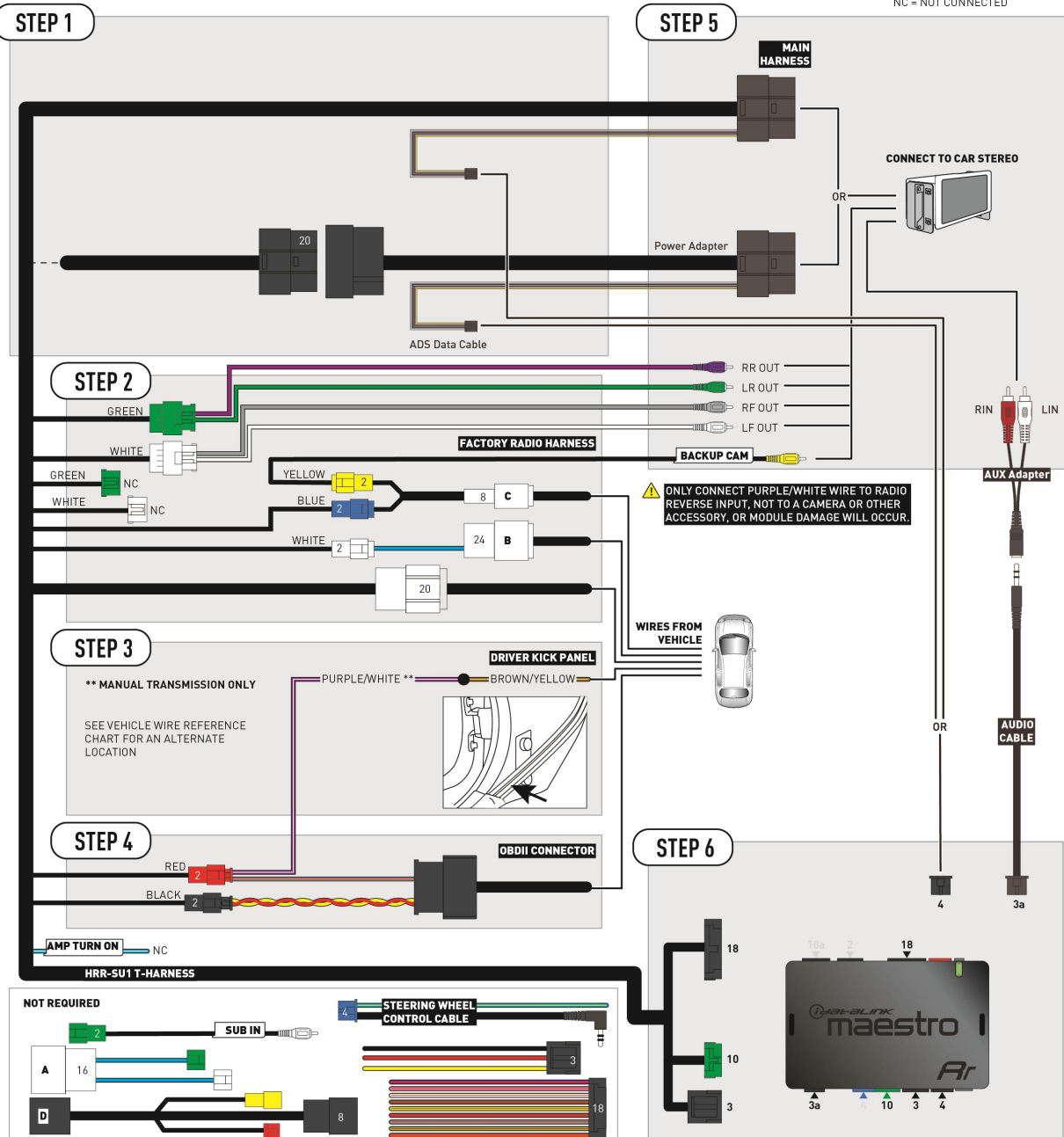
- Connect the ADS Data Cable of HRR-SU1 T-harness to the 4-pin port of the Maestro RR module.

OR

Connect the ADS Data Cable of Power Adapter to the 4-pin port of the Maestro RR module.

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

WIRING DIAGRAM



[Connection Diagram of Subaru Outback with Amplifier without NaV 2010-2011]

Subaru Outback with Bluetooth 2014

STEP 1

- Connect the Main Harness of HRR-SU2 T-harness to the aftermarket car stereo.

OR

Connect the 20-pin connector of HRR-SU2 T-harness to the Power Adapter, then plug the other end of Power Adapter into the aftermarket car stereo.

STEP 2

- Assemble the HRR-SU2 T-harness as shown in the wiring diagram and connect it to the factory radio harness.

STEP 3

- Connect HRR-SU2 2-pin red connector to red connector of OBDII extension harness.
- Connect HRR-SU2 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 4

- Plug the harnesses into the aftermarket car stereo.
- Plug the backup camera RCA into the aftermarket car stereo (if applicable).
- Insert the TO Radio Antenna Adapter into the car stereo and Power ANT separately, then plug the other white connector into the vehicle.
- Plug the white connector of USB1 cable into the car stereo, and connect the other end to the USB Adapter.
- Insert the other end of USB Adapter into the vehicle.

STEP 5

- Plug the ADS Data Cable of HRR-SU2 T-harness into the 4-pin port of the Maestro RR module.

OR

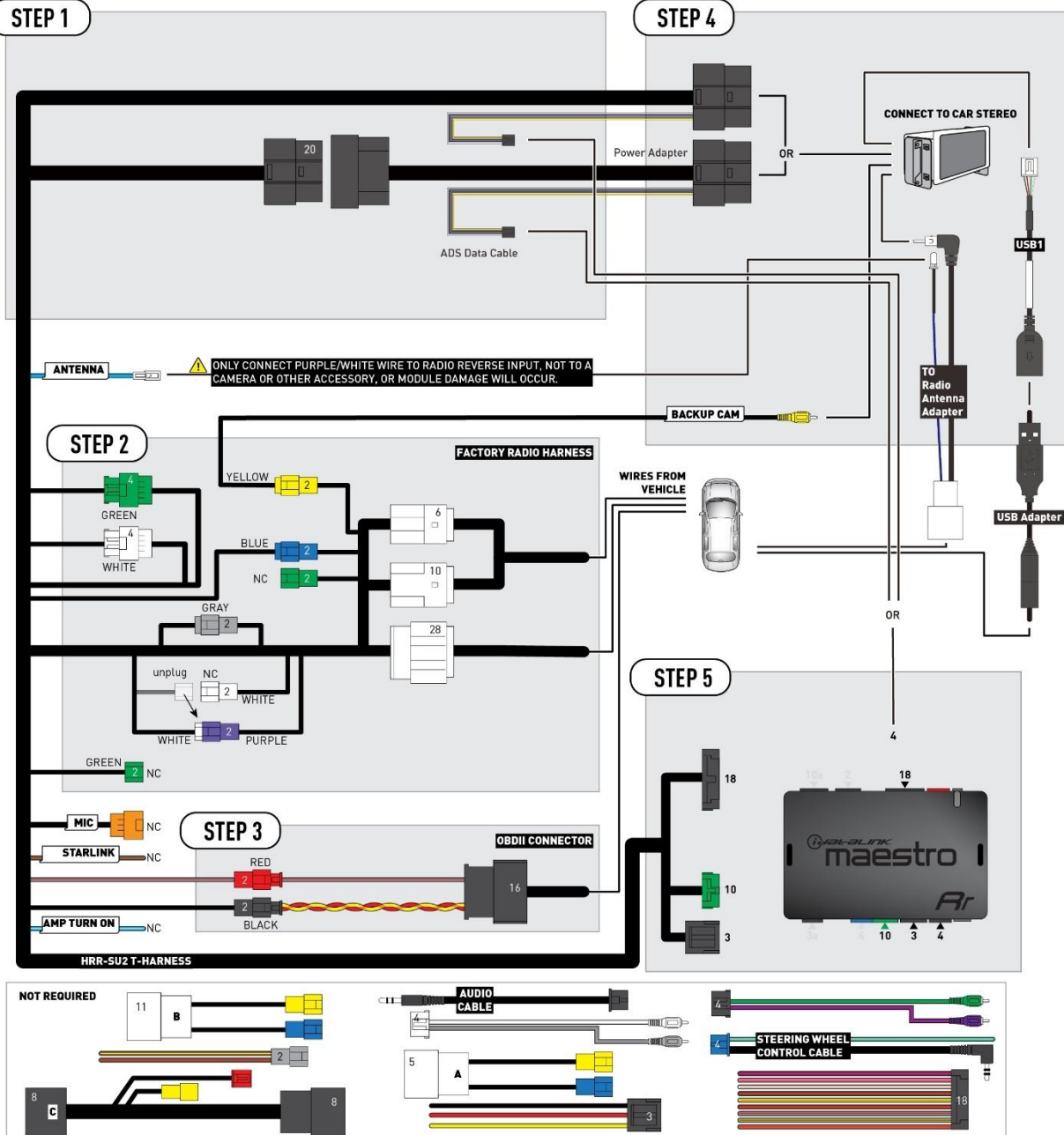
Plug the ADS Data Cable of Power Adapter into the 4-pin port of the Maestro RR module.

- Connect all the harnesses to the Maestro RR module then test your installation.

WIRING DIAGRAM

STEP 1

STEP 4



[Connection Diagram of Subaru Outback with Bluetooth 2014]

Subaru Outback with Bluetooth and Harman Kardon 2012-2014

STEP 1

- Connect the Main Harness of HRR-SU2 T-harness directly to the aftermarket car stereo.

OR

Connect the 20-pin connector of HRR-SU2 T-harness to the Power Adapter, then plug the other end of Power Adapter into the car stereo.

STEP 2

- Assemble the HRR-SU2 T-harness as shown in the wiring diagram and connect it to the factory radio harness.

STEP 3

- Connect HRR-SU2 2-pin red connector to red connector of OBDII extension harness.
- Connect HRR-SU2 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 4

- Plug the harnesses into the aftermarket car

stereo.

- Plug the backup camera RCA into the car stereo (if applicable).
- Plug the RCA cables into the aftermarket car stereo outputs.
- Insert the TO Radio Antenna Adapter into the car stereo and Power ANT separately, and plug the other white connector into the vehicle.
- Plug the white connector of USB1 cable into the car stereo, and connect the other end to the USB Adapter.
- Insert the USB Adapter into the vehicle.

STEP 5

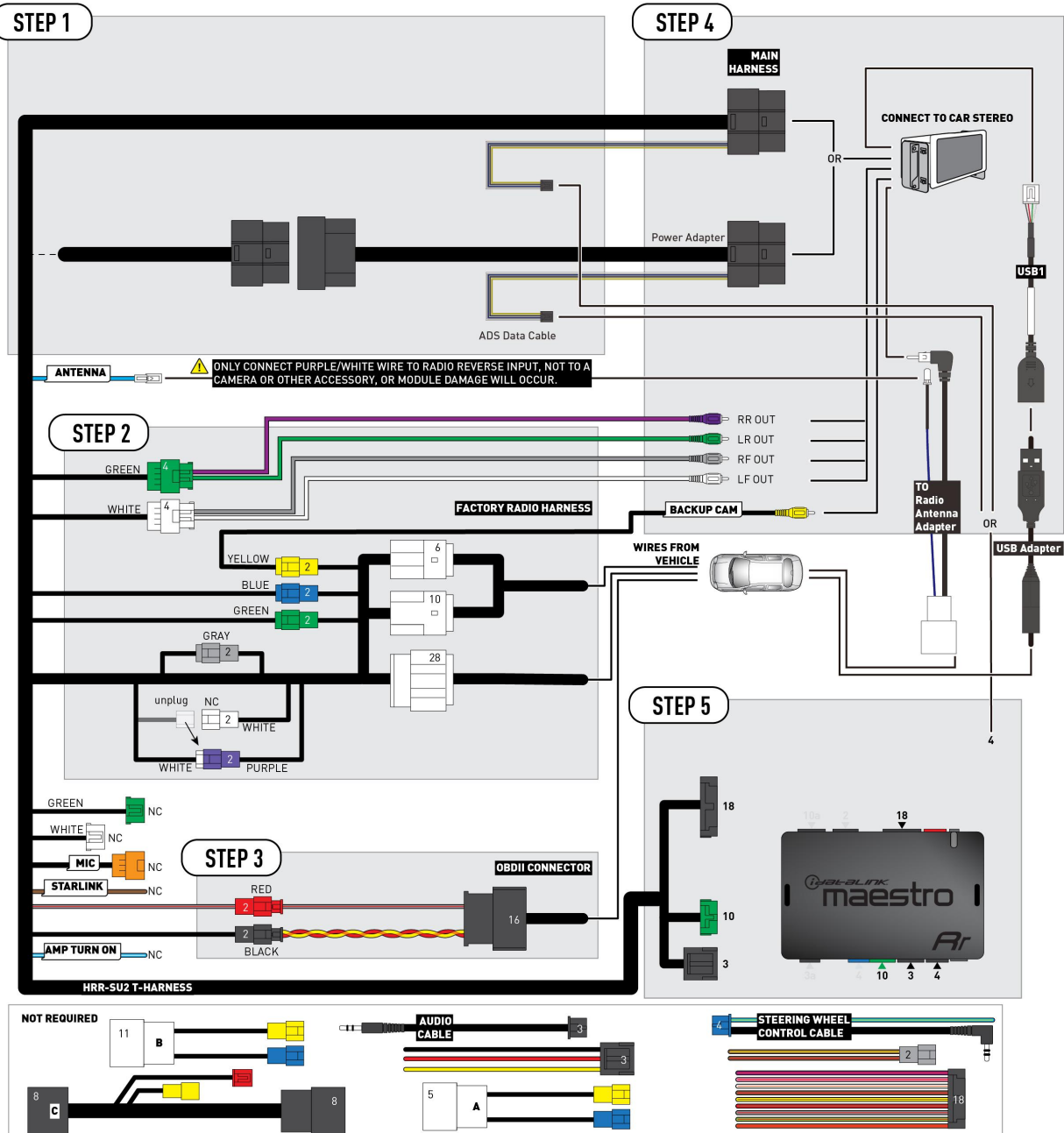
- Plug the ADS Data Cable of HRR-SU2 T-harness into the 4-pin port of Maestro RR module.

OR

Plug the ADS Data Cable of Power Adapter into the 4-pin port of Maestro RR module.

- Connect all the harnesses to the Maestro RR module then test your installation.

WIRING DIAGRAM



[Connection Diagram of Subaru Outback with Bluetooth and Harman Kardon 2012-2014]

Subaru Outback with NAV 2013-2014

STEP 1

- Connect the Main Harness of HRR-SU2 T-harness directly to the aftermarket car stereo.

OR

Connect the 20-pin port of HRR-SU2 T-harness to the Power Adapter, and plug the other end of Power Adapter into the car stereo.

STEP 2

- Assemble the HRR-SU2 T-harness as shown in the wiring diagram and connect it to the factory radio harness.

STEP 3

- Connect HRR-SU2 2-pin red connector to red connector of OBDII extension harness.
- Connect HRR-SU2 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 4

- Plug the harnesses into the aftermarket car stereo.
- Plug the backup camera RCA into the car stereo (if applicable).
- Insert the TO Radio Antenna Adapter into the car stereo and Power ANT separately, then plug the other white connector into the vehicle.
- Plug USB1 cable into the car stereo, and connect the other end to the USB Adapter.
- Insert the other end of USB Adapter into the vehicle.

STEP 5

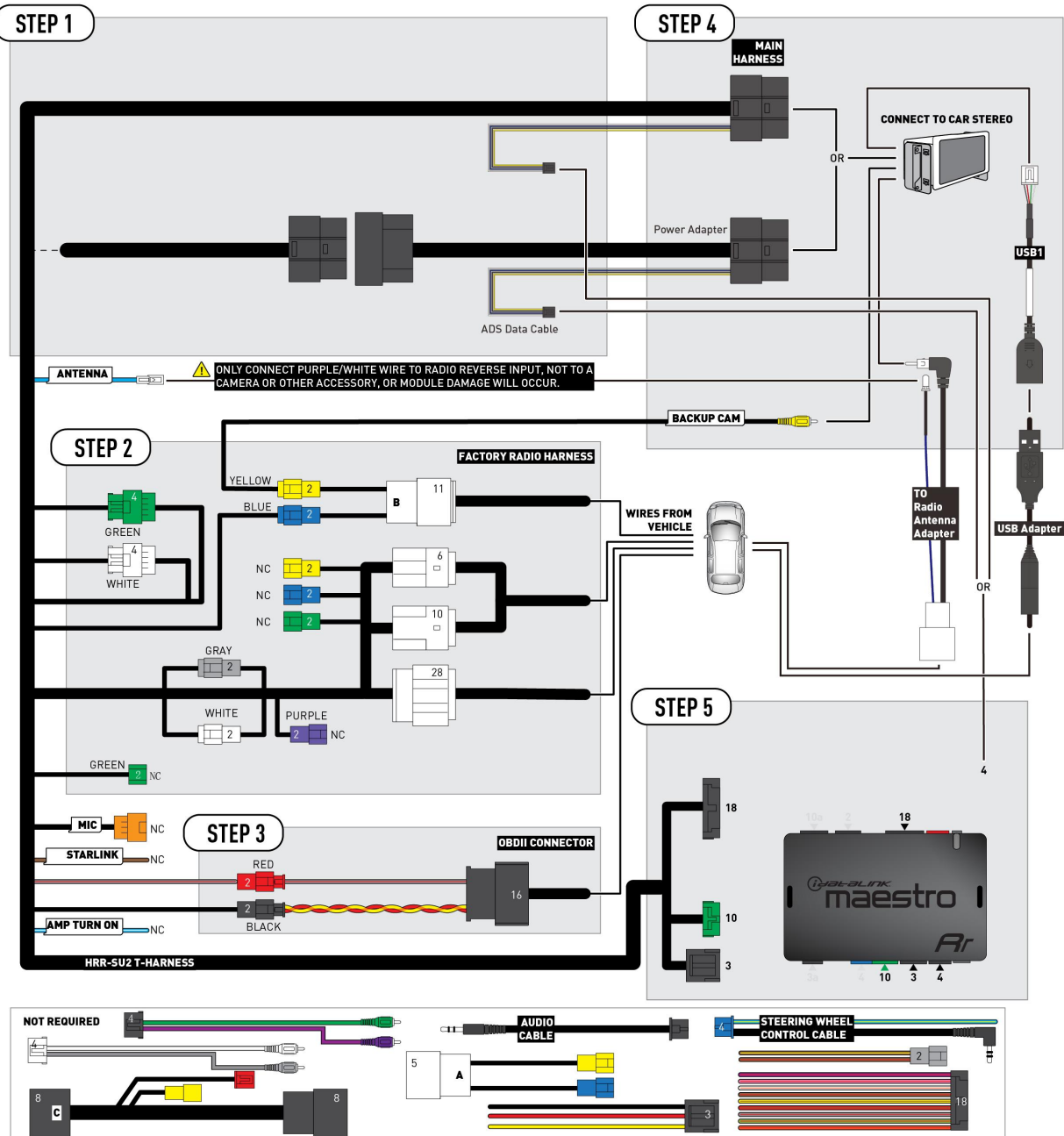
- Plug the ADS Data Cable of HRR-SU2 T-harness into the 4-pin port of Maestro RR module.

OR

Plug the ADS Data Cable of Power Adapter into the 4-pin port of Maestro RR module.

- Connect all the harnesses to the Maestro RR module then test your installation.

WIRING DIAGRAM



[Connection Diagram of Subaru Outback with NAV 2013-2014]

Subaru Outback with NAV and Harman Kardon 2013-2014

STEP 1

- Connect the Main Harness of HRR-SU2 T-harness directly to the aftermarket car stereo.

OR

Connect the 20-pin port of HRR-SU2 T-harness to the Power Adapter, and plug the other end of Power Adapter into the car stereo.

STEP 2

- Assemble the HRR-SU2 T-harness as shown in the wiring diagram and connect it to the factory radio harness.

STEP 3

- Connect HRR-SU2 2-pin red connector to red connector of OBDII extension harness.
- Connect HRR-SU2 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle, under driver dash.

STEP 4

- Plug the harnesses into the aftermarket car

stereo.

- Plug the backup camera RCA into the car stereo (if applicable).
- Plug the RCA cables into the aftermarket car stereo outputs.
- Insert the TO Radio Antenna Adapter into the car stereo and Power ANT separately, then plug the other white connector into the vehicle.
- Plug USB1 cable into the car stereo, and connect the other end to the USB Adapter.
- Insert the other end of USB Adapter into the vehicle.

STEP 5

- Plug the ADS Data Cable of HRR-SU2 T-harness into the 4-pin port of Maestro RR module.

OR

Plug the ADS Data Cable of Power Adapter into the 4-pin port of Maestro RR module.

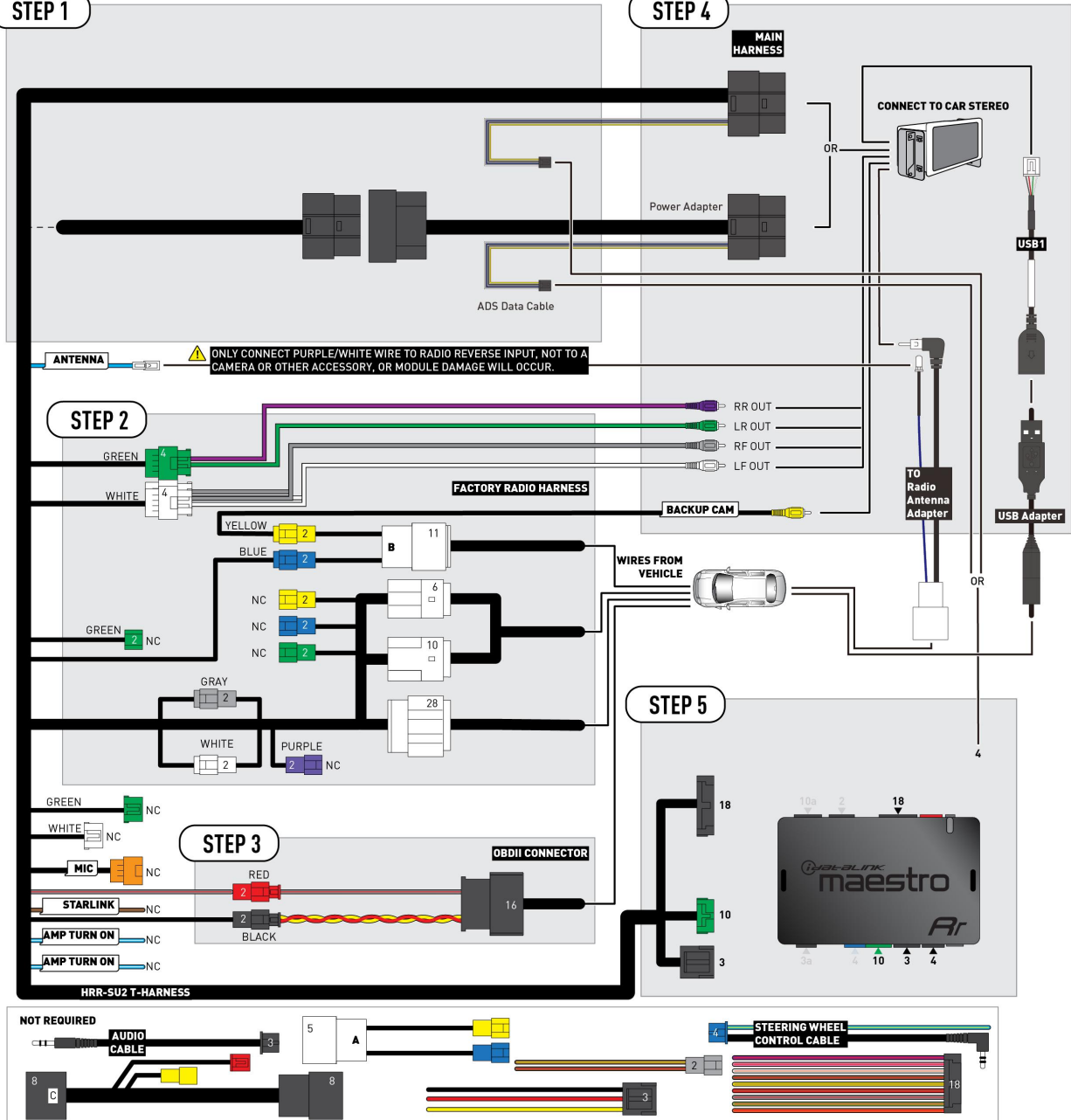
- Connect all the harnesses to the Maestro RR module then test your installation.

WIRING DIAGRAM

STEP 1

STEP 4

NC = NOT CONNECTED



[Connection Diagram of Subaru Outback with NAV and Harman Kardon 2013-2014]

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.