SELECT VEHICLE
PRINT PAGES NEEDED

iDatalink maestro RR

HOW TO USE THIS INSTALL GUIDE

1. Open the Bookmarks menu and find your vehicle OR scroll down until you find the install guide for your vehicle.
2. Print only the pages for your vehicle using the advanced options in the Print menu.
3. Install your Maestro RR according to the guide for your vehicle.

WARNING

Pressing the printer icon or "quick printing" this document will print all of the guides in this compilation.

INSTALL GUIDE

2011-2014
CHRYSLER 200

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

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1 866 427-2999

maestro.support@idatalink.com

maestro.idatalink.com/support
www.12voltdata.com/forum

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

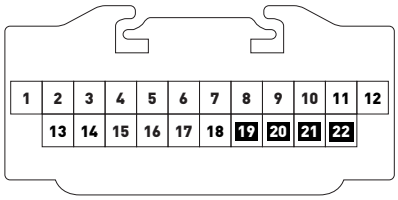

Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

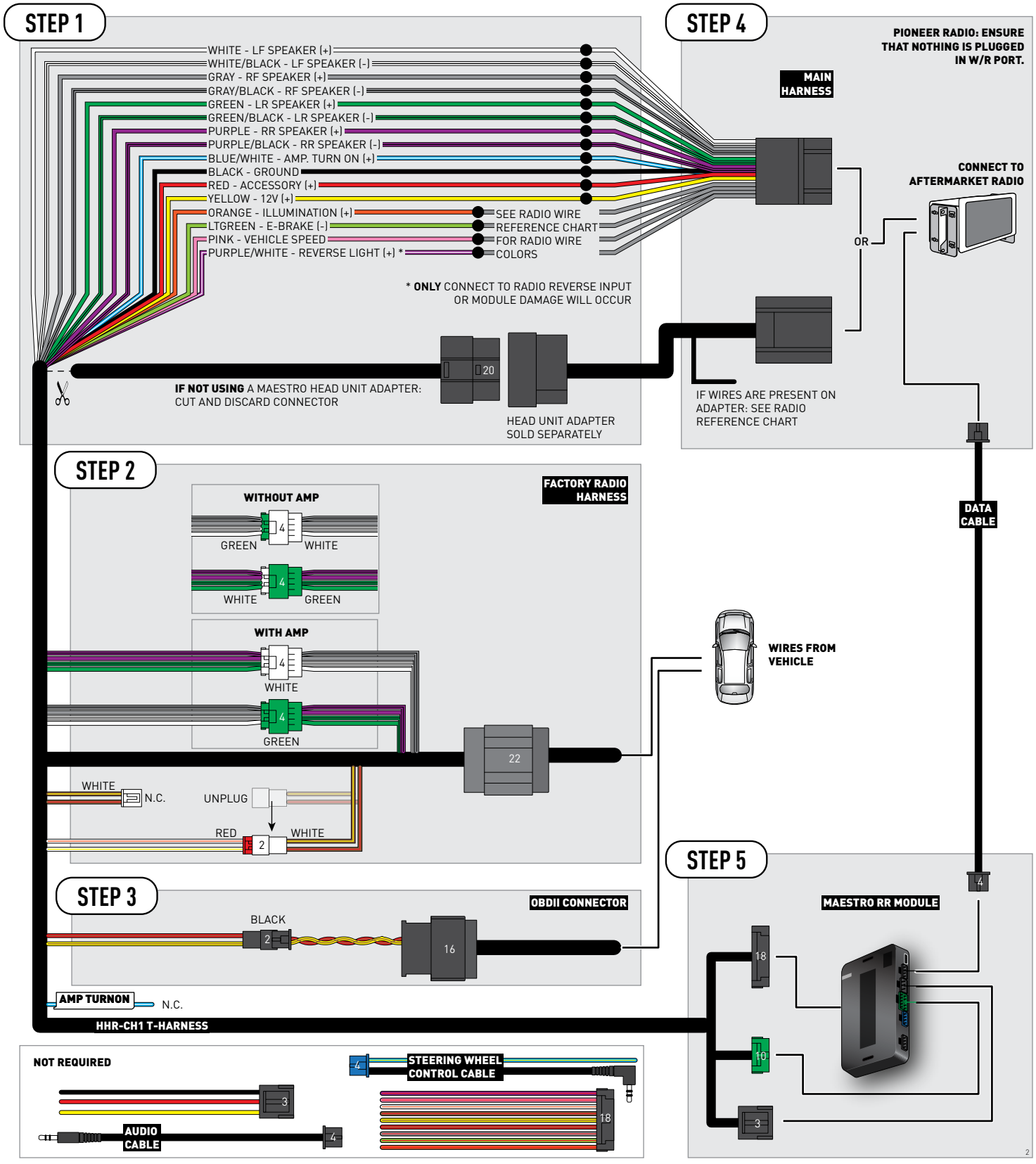
Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

WIRING DIAGRAM



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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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2008-2010
CHRYSLER 300

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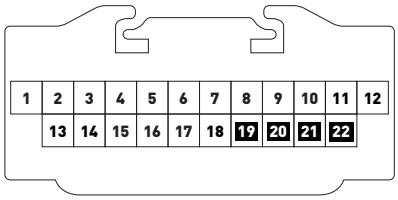

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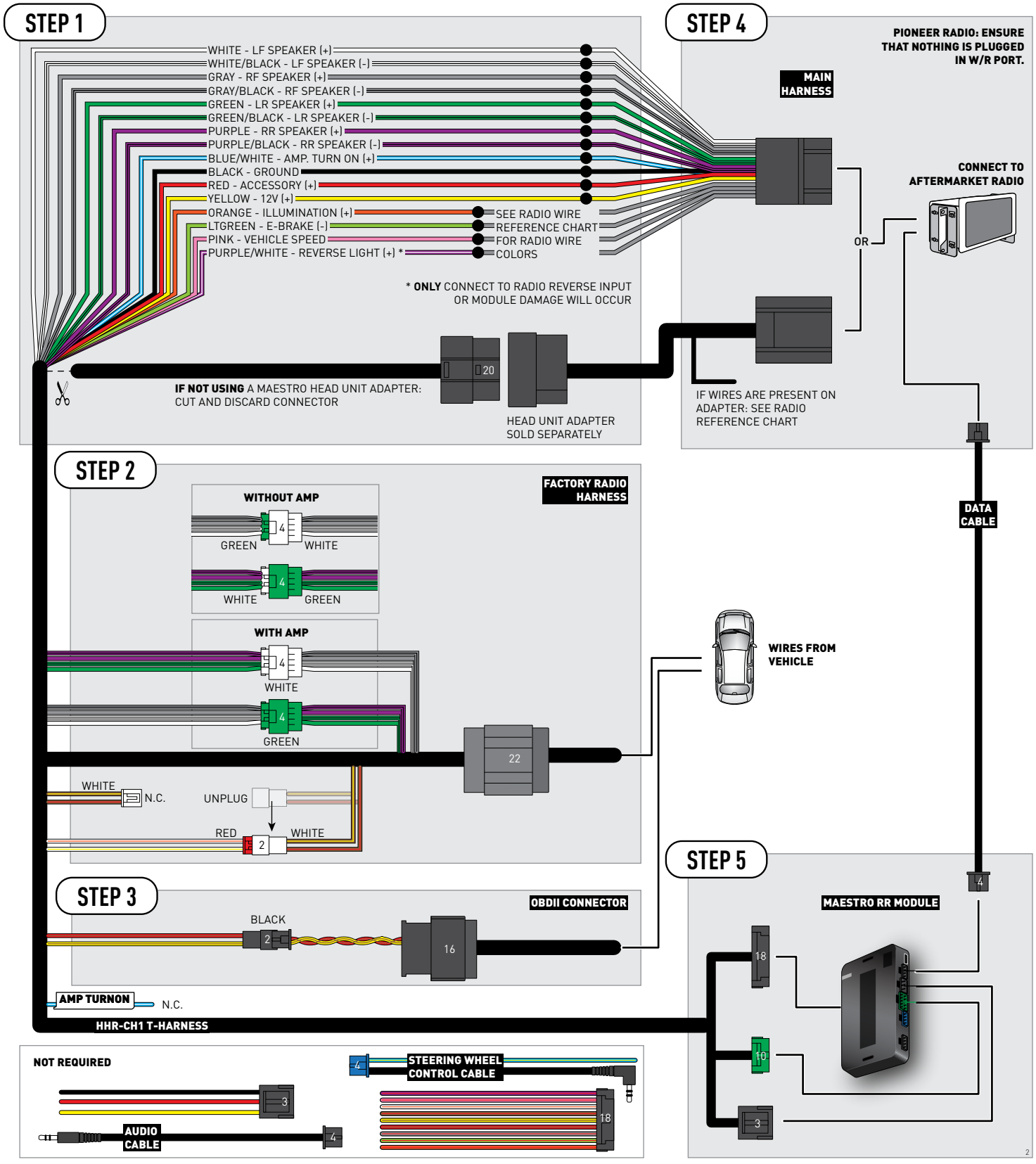

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2008-2009
CHRYSLER ASPEN

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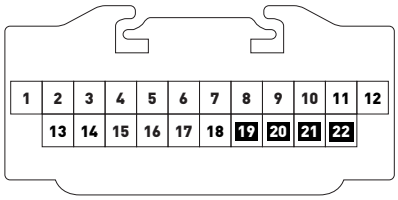

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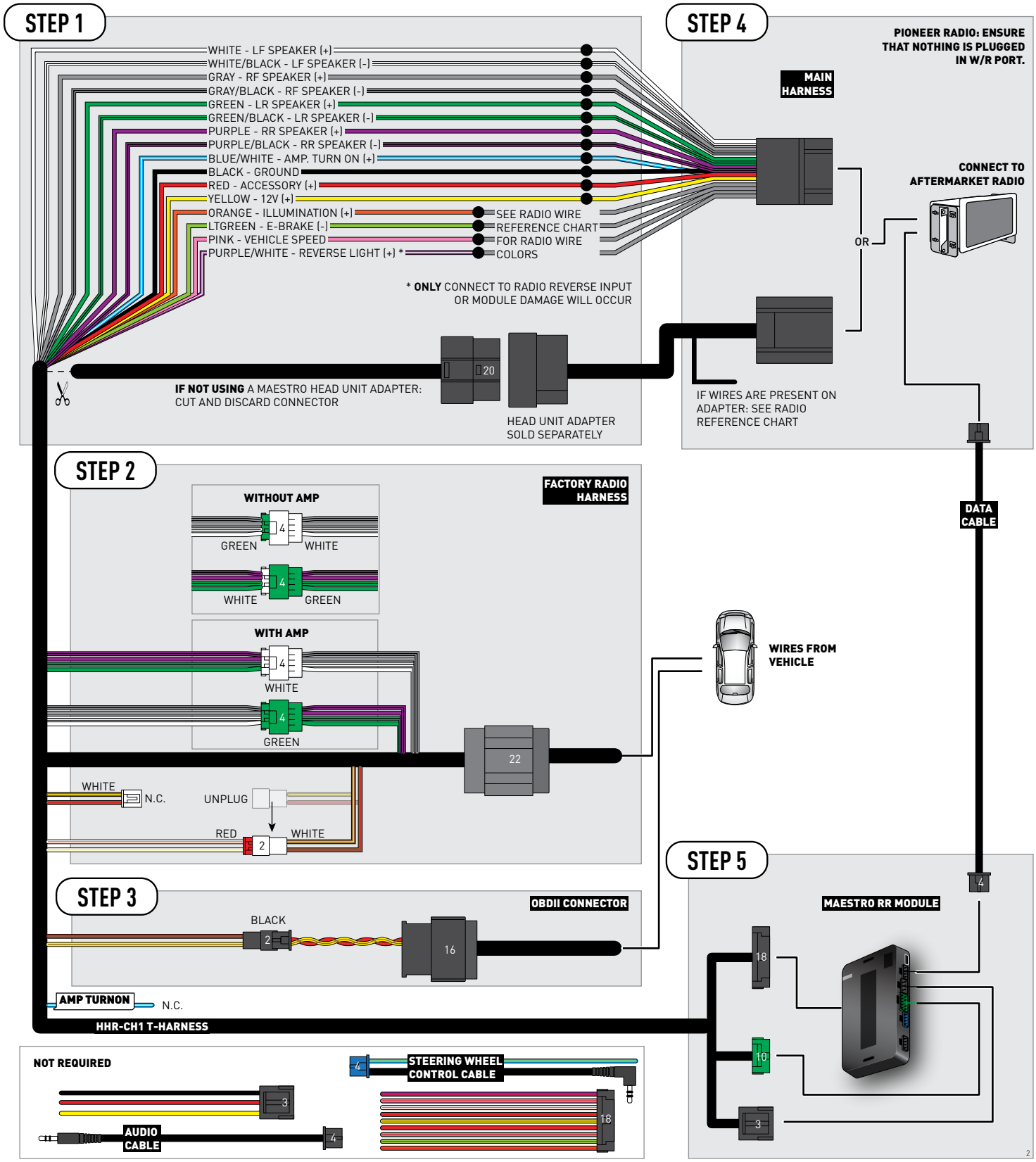

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2007-2010
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maestro.support@idatalink.com

maestro.idatalink.com/support
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STEP 1

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If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

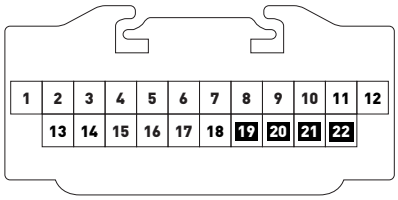


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

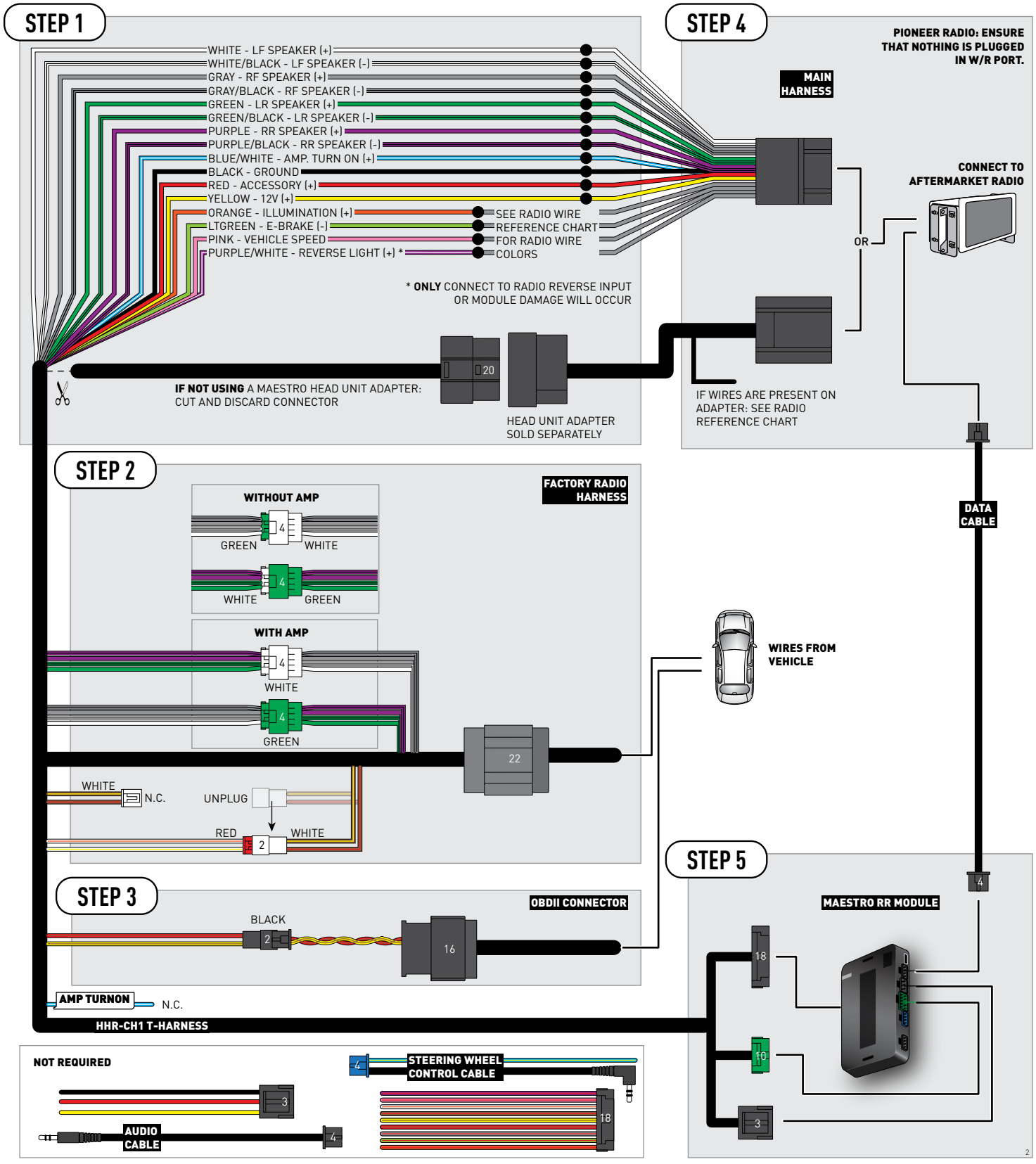
Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

WIRING DIAGRAM



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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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INSTALL GUIDE

2008-2011
CHRYSLER TOWN AND COUNTRY

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
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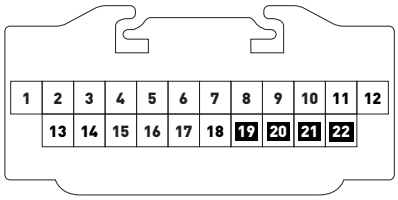

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- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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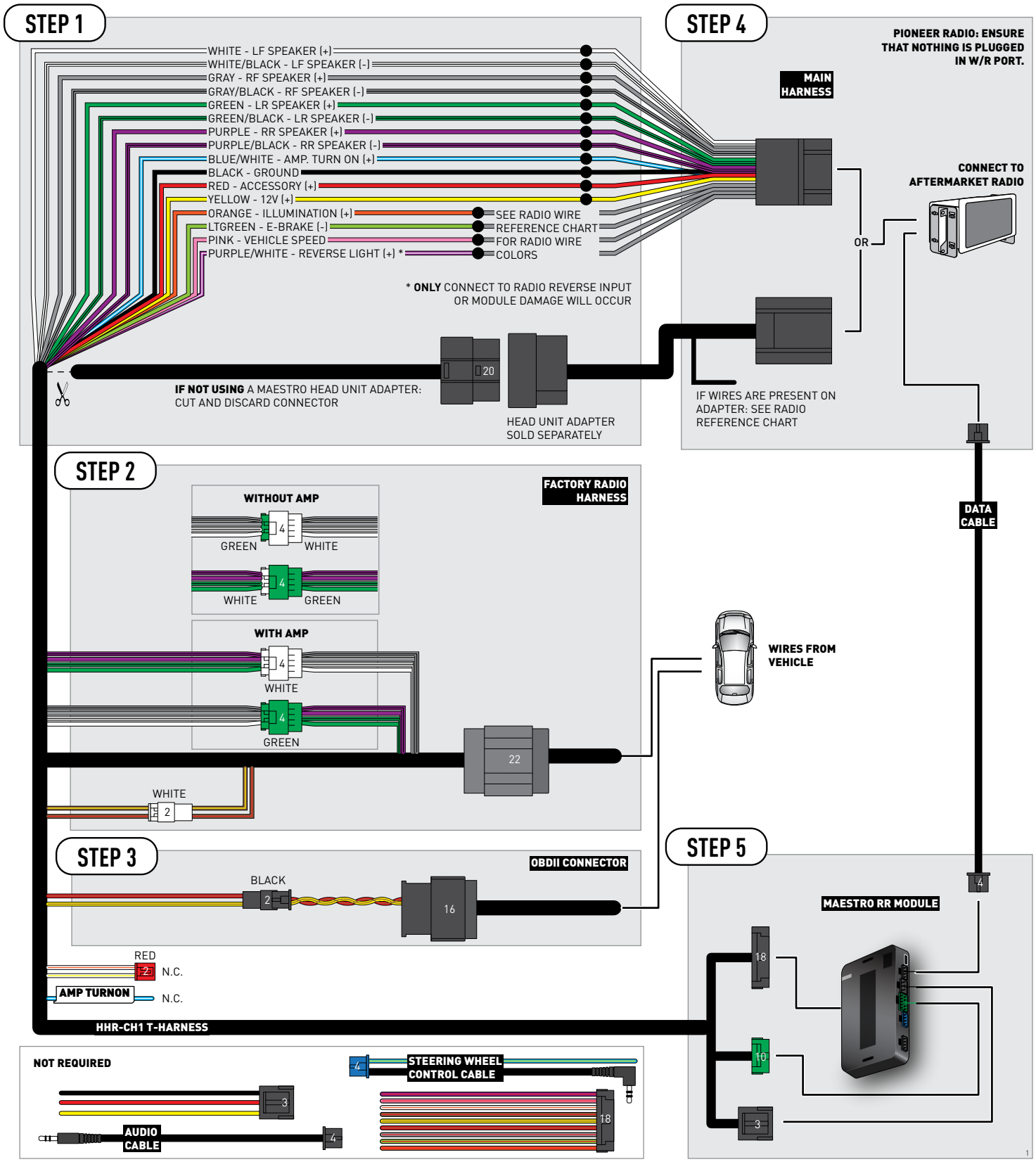

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INSTALL GUIDE

2012-2016
CHRYSLER TOWN AND COUNTRY

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

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Maestro RR2 Programmable Outputs Guide

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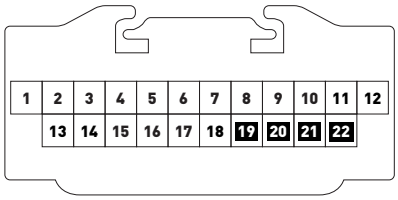

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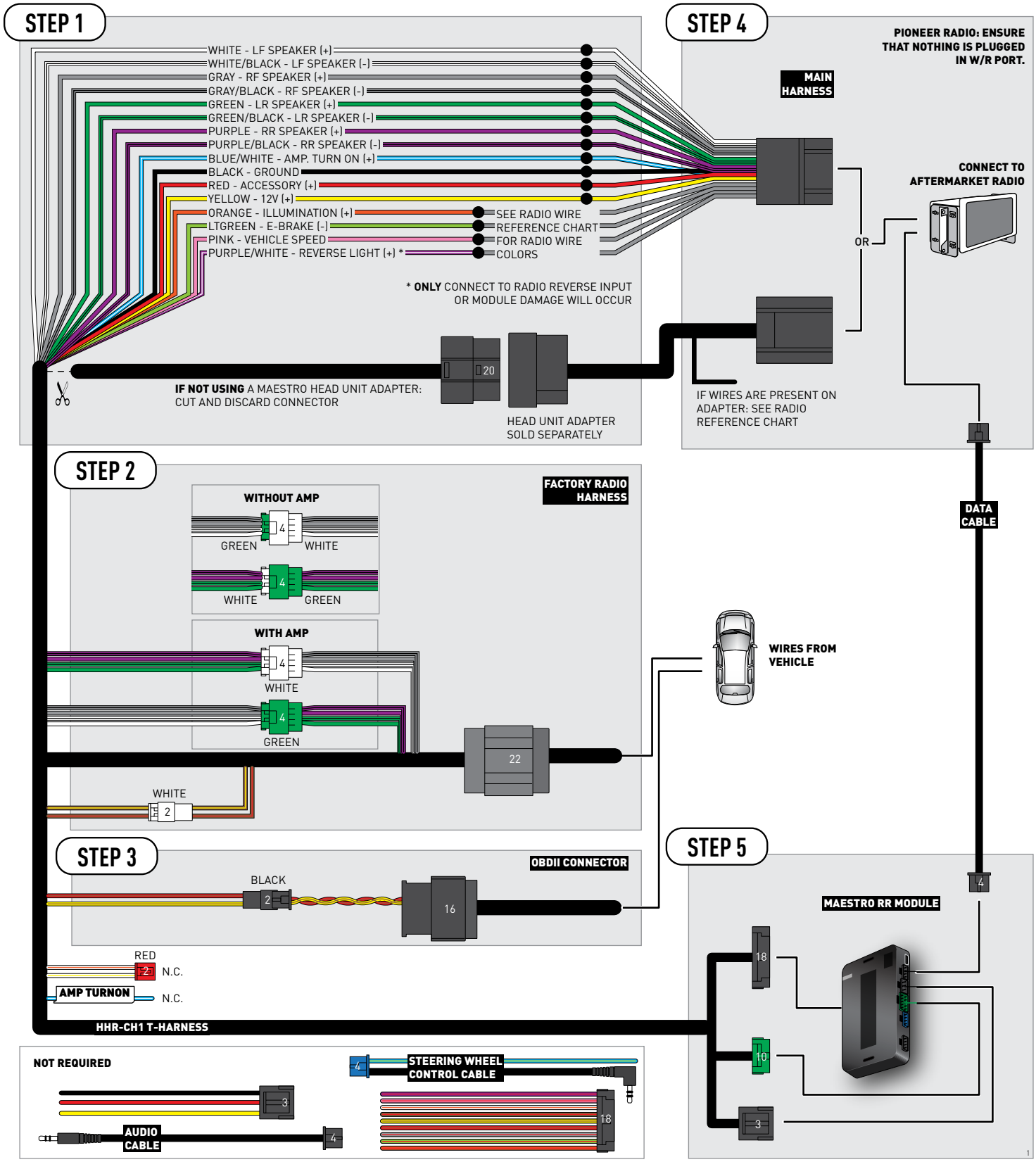

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INSTALL GUIDE

2008-2014
DODGE AVENGER

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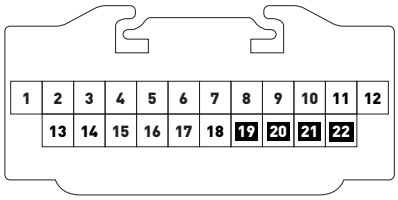


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

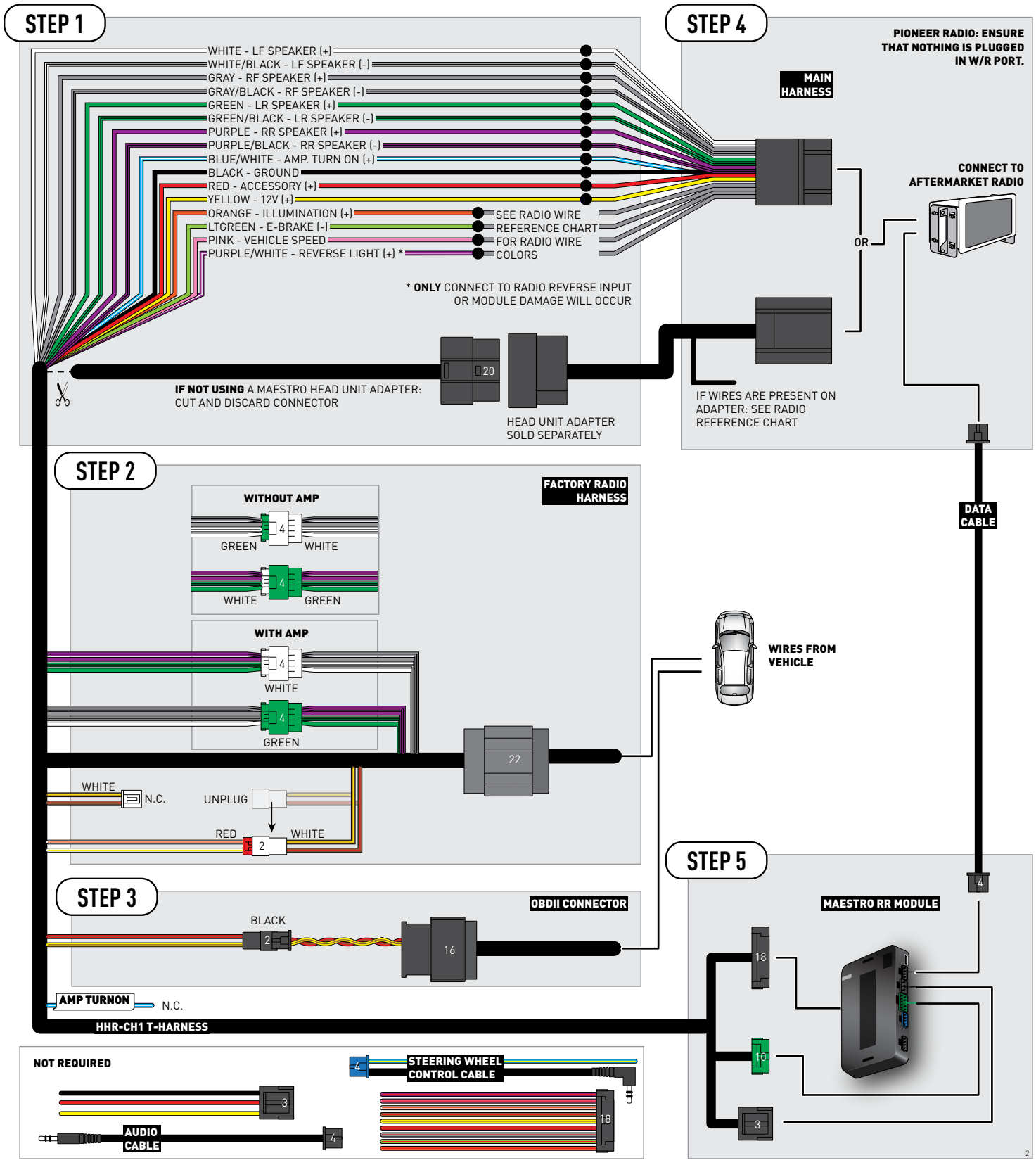
Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CH1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voltdata.com/forum/

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2009-2012
DODGE CALIBER

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

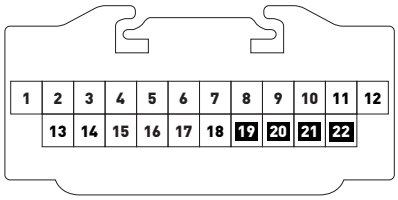
If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.



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- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

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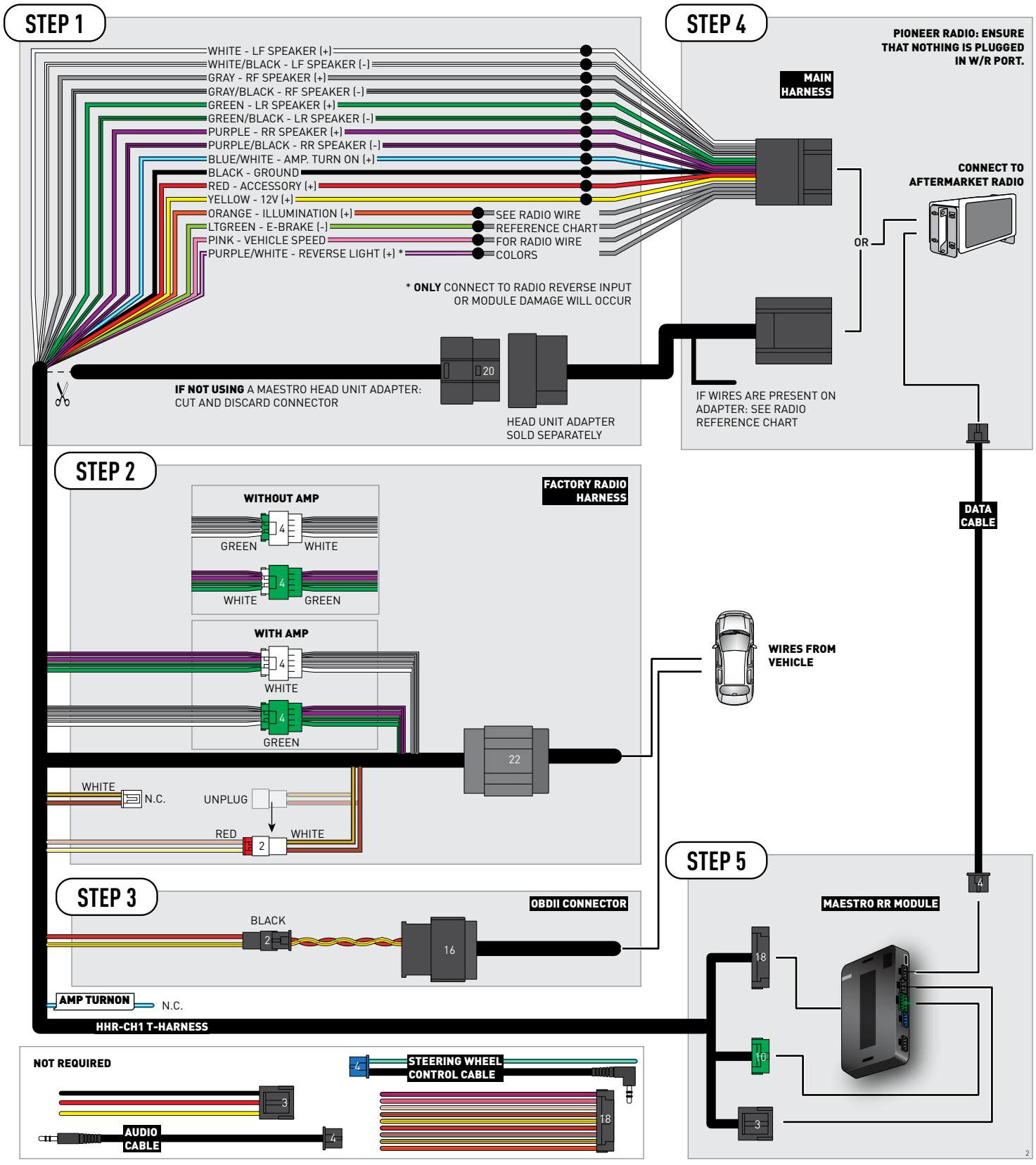
WIRING DIAGRAM



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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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INSTALL GUIDE

2008-2014
DODGE CHALLENGER

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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ADS-RR(SR)-CHR01-DS

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STEP 1

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If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
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Note: only connect purple/white wire to radio reverse input or module damage will occur.

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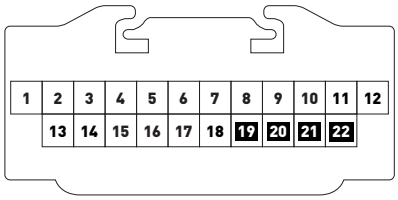

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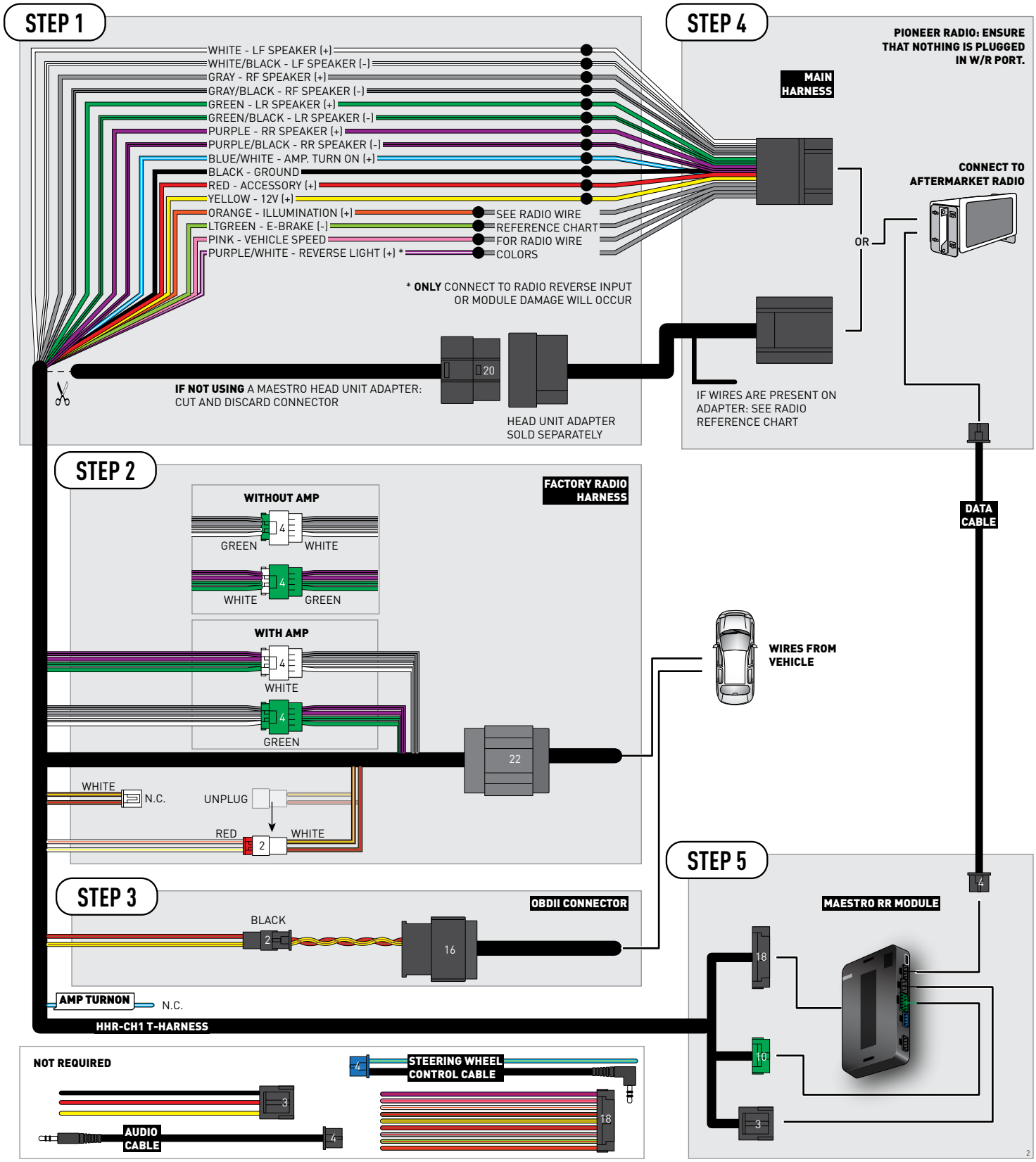

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INSTALL GUIDE

2008-2010
DODGE CHARGER

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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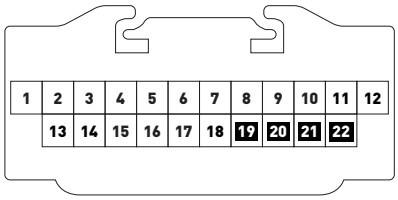

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- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

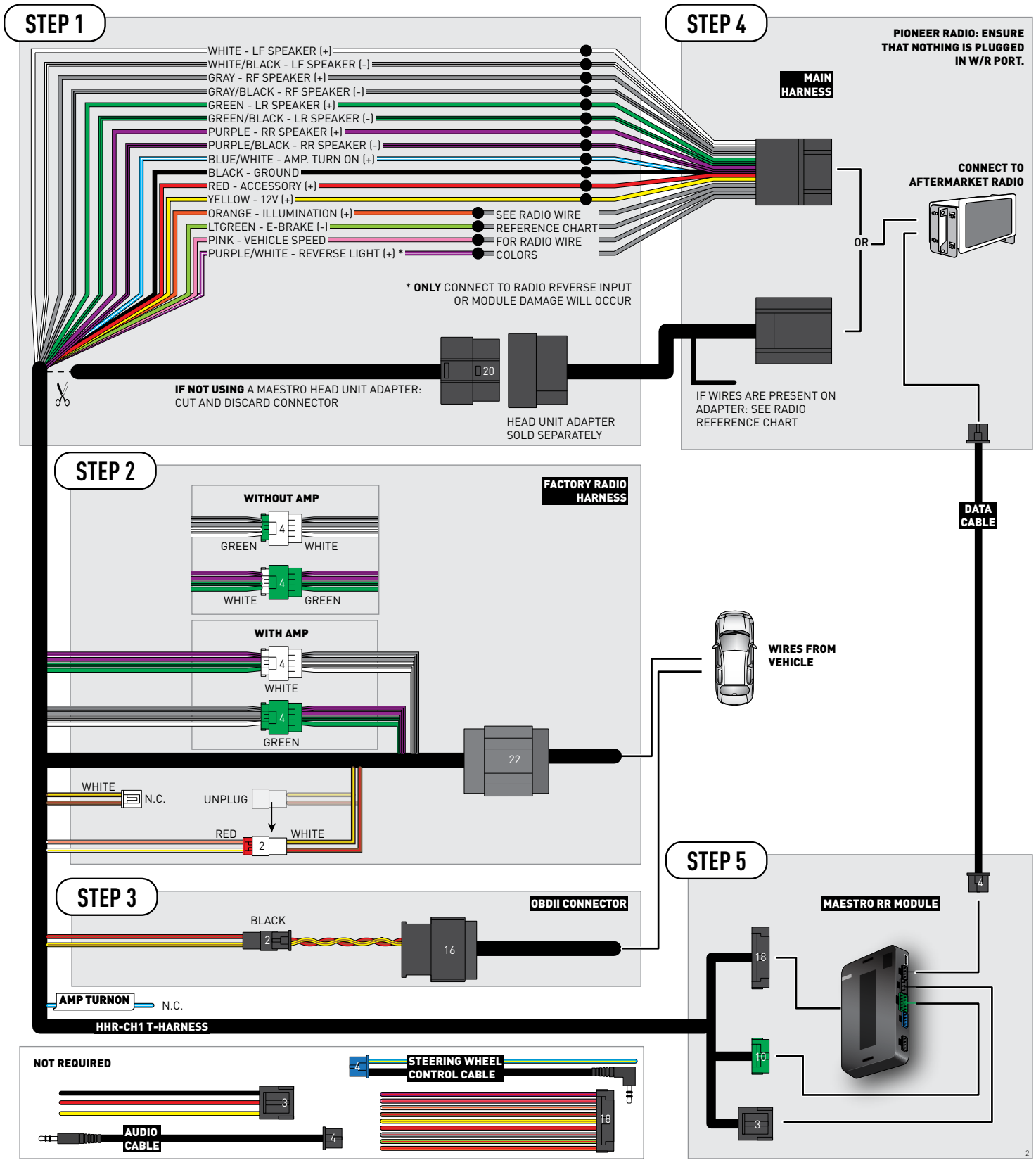
Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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INSTALL GUIDE

2008-2010
DODGE DAKOTA

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

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Radar Installation Guides

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Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

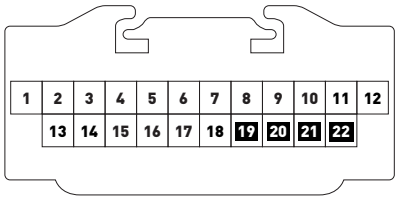

Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

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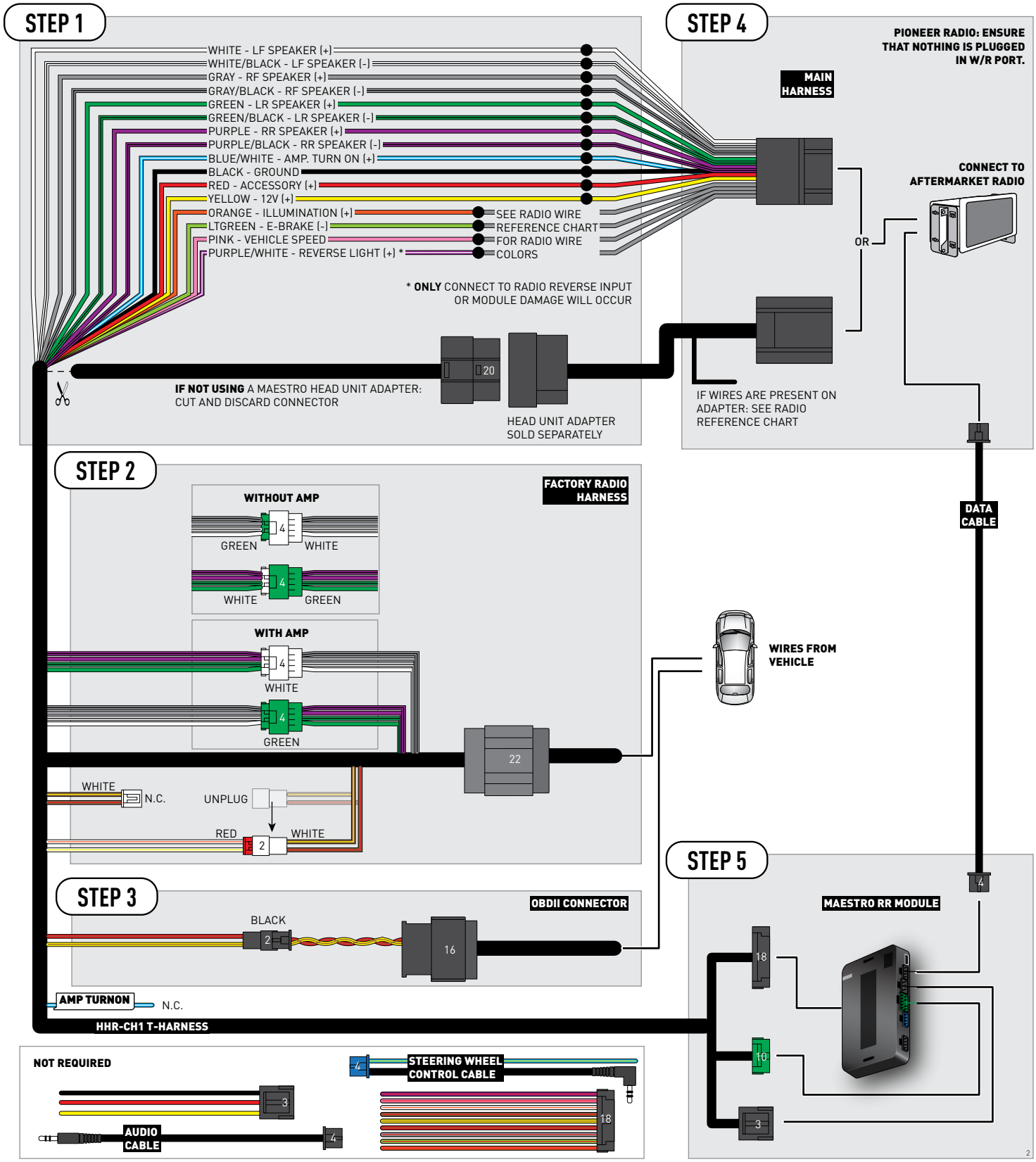
- Connect all the harnesses to the Maestro RR module then test your installation.

WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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DODGE DAKOTA

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STEP 1

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If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

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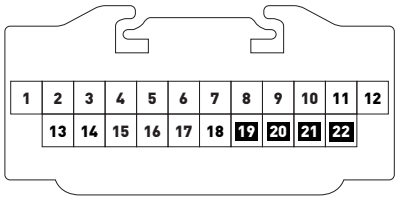

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If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

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If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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- Plug the harnesses into the aftermarket radio.
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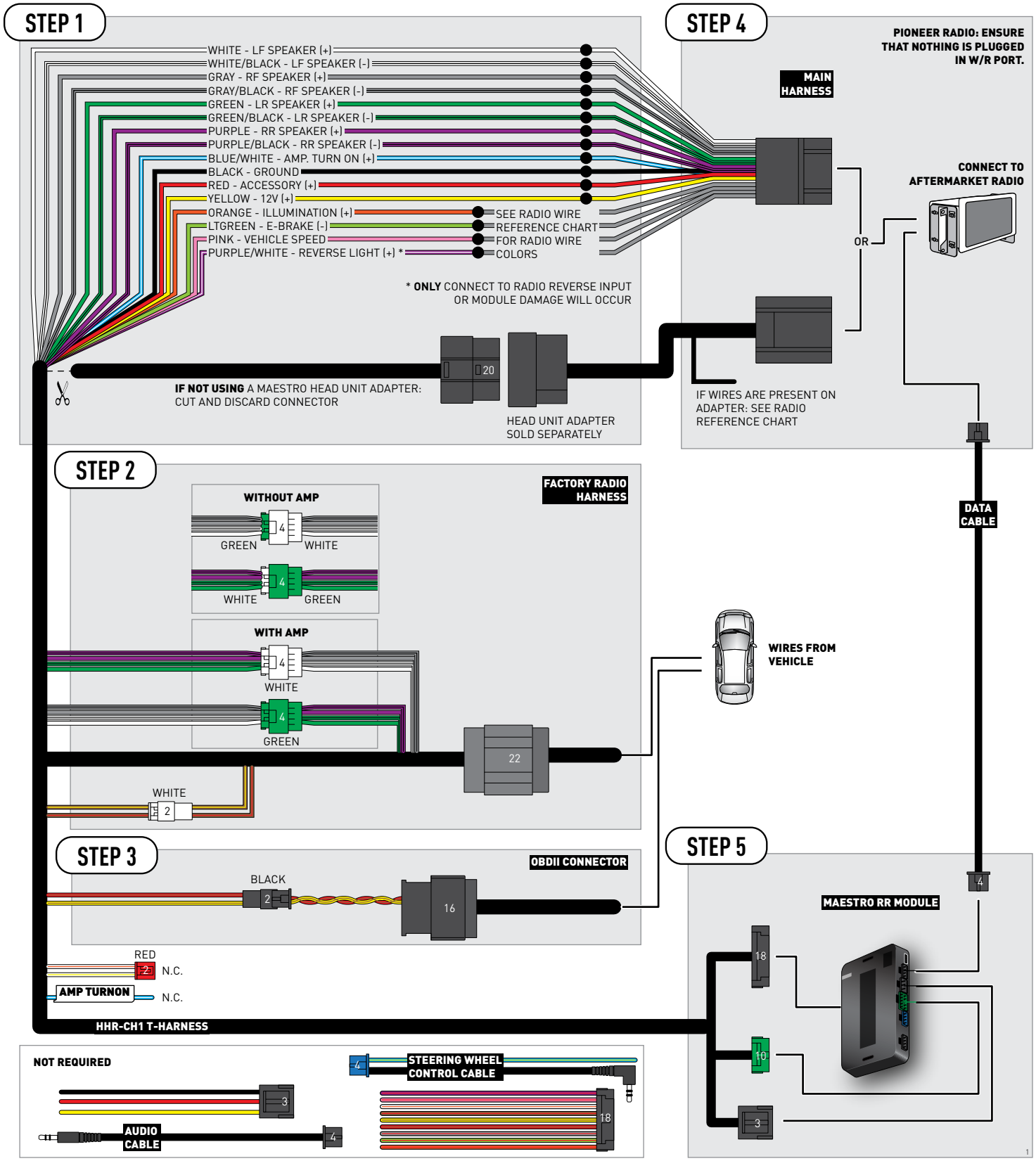
1

WIRING DIAGRAM



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DODGE DURANGO

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STEP 1

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- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

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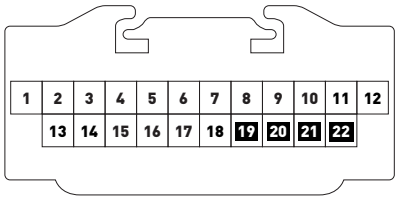

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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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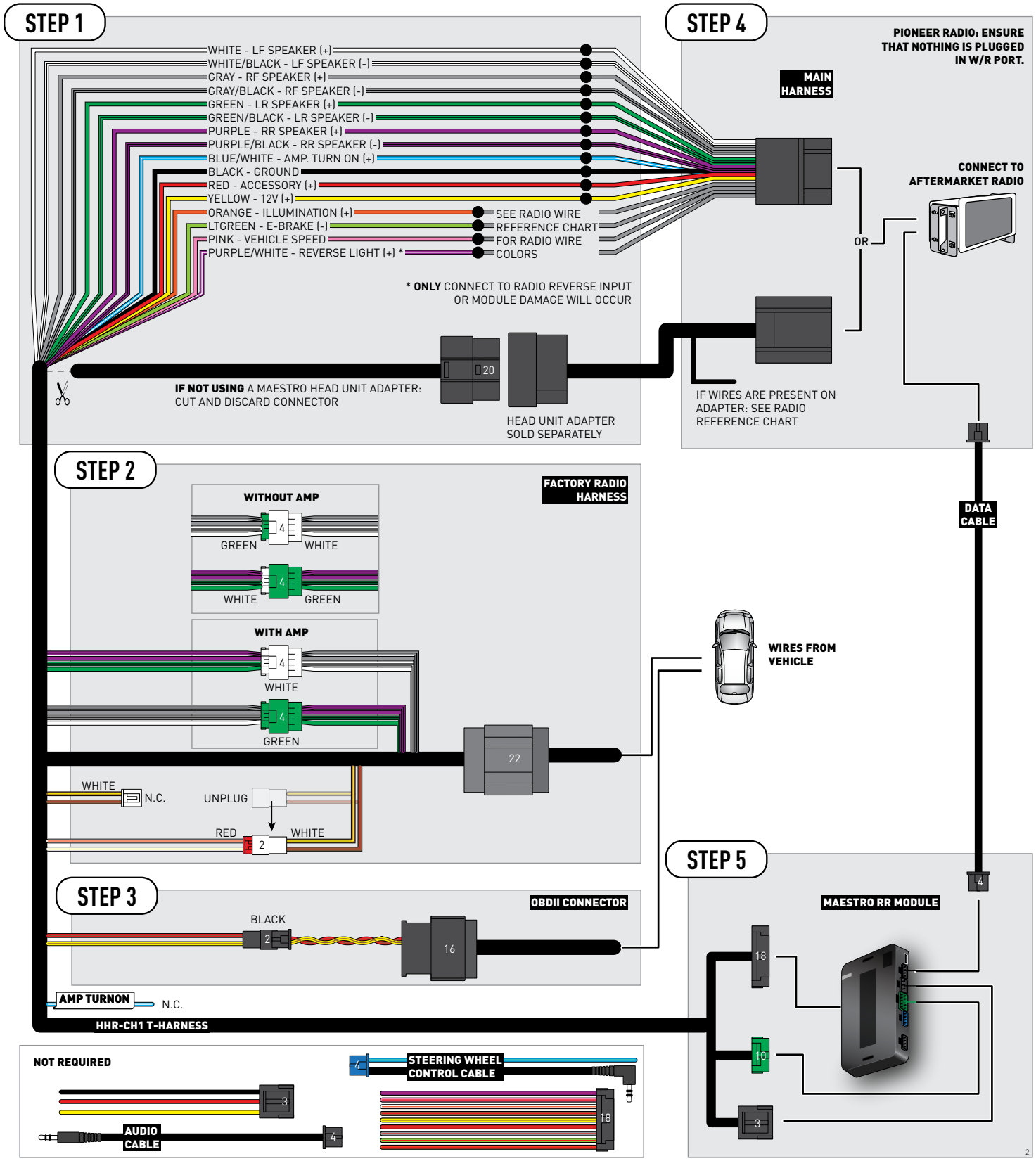

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CH1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2011-2013
DODGE DURANGO

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

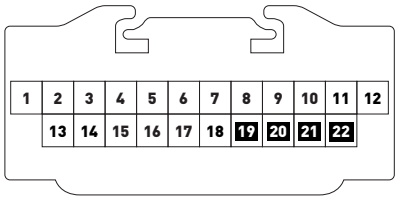


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

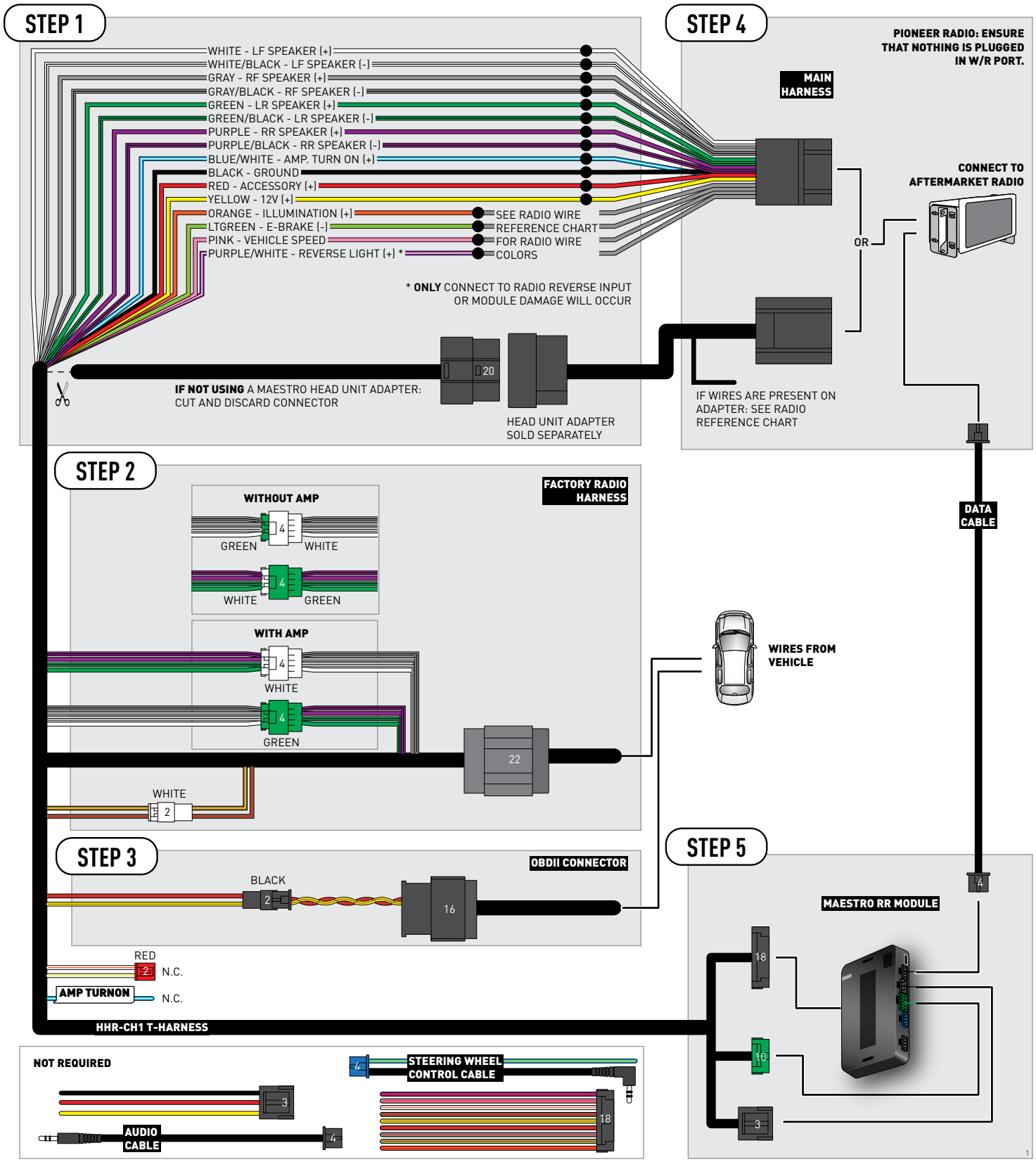
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

1

WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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TROUBLESHOOTING TABLE

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INSTALL GUIDE

2008-2011
DODGE GRAND CARAVAN

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

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iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

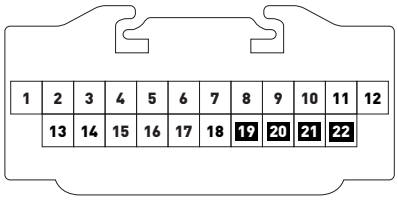

Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

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- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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- Plug the harnesses into the aftermarket radio.
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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

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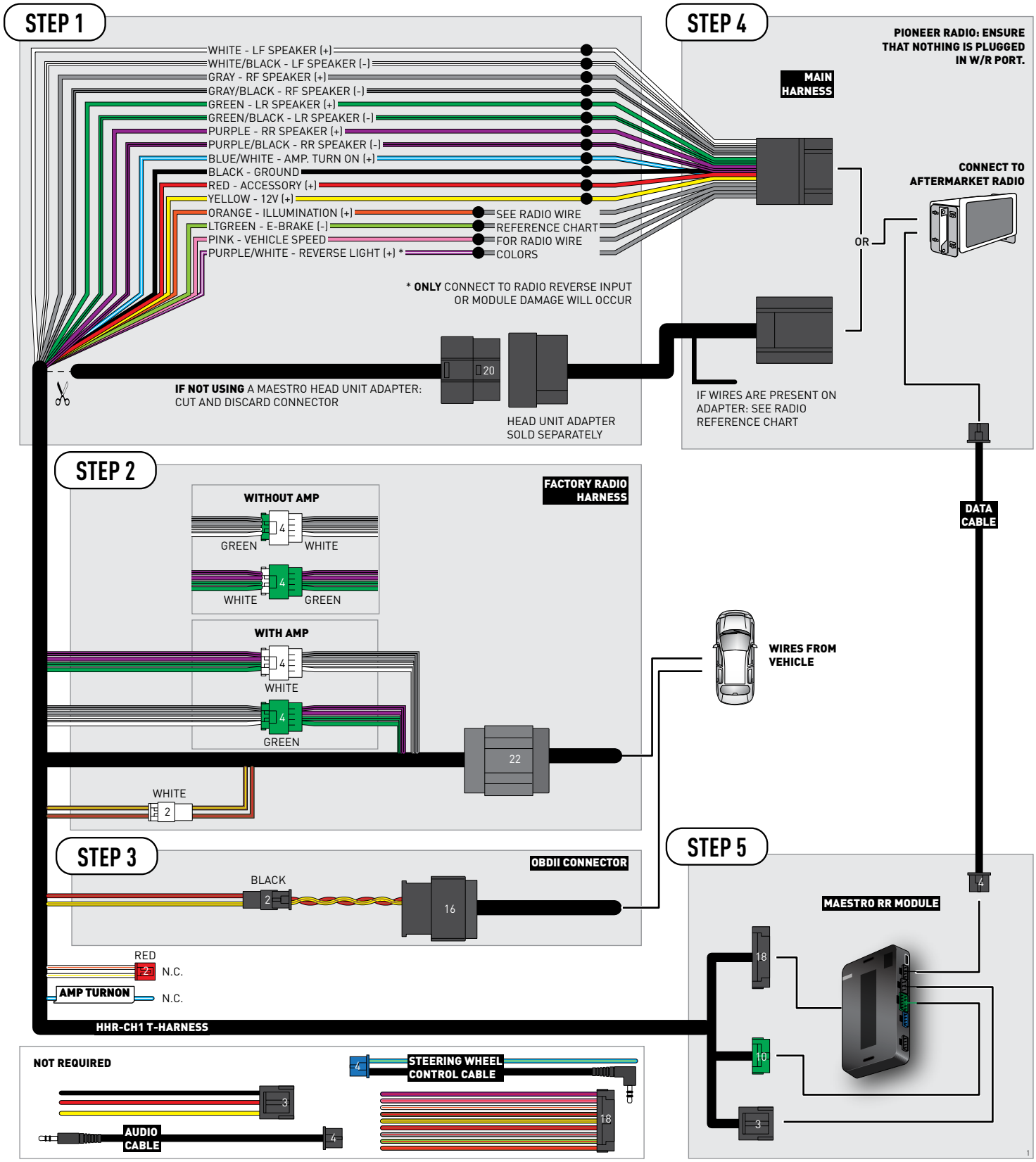
1

WIRING DIAGRAM



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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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INSTALL GUIDE

2012-2019
DODGE GRAND CARAVAN

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

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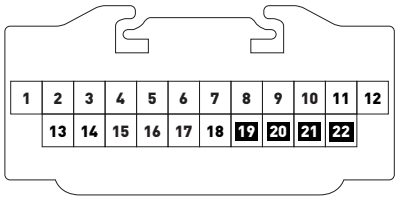

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- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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- Plug the harnesses into the aftermarket radio.
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If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

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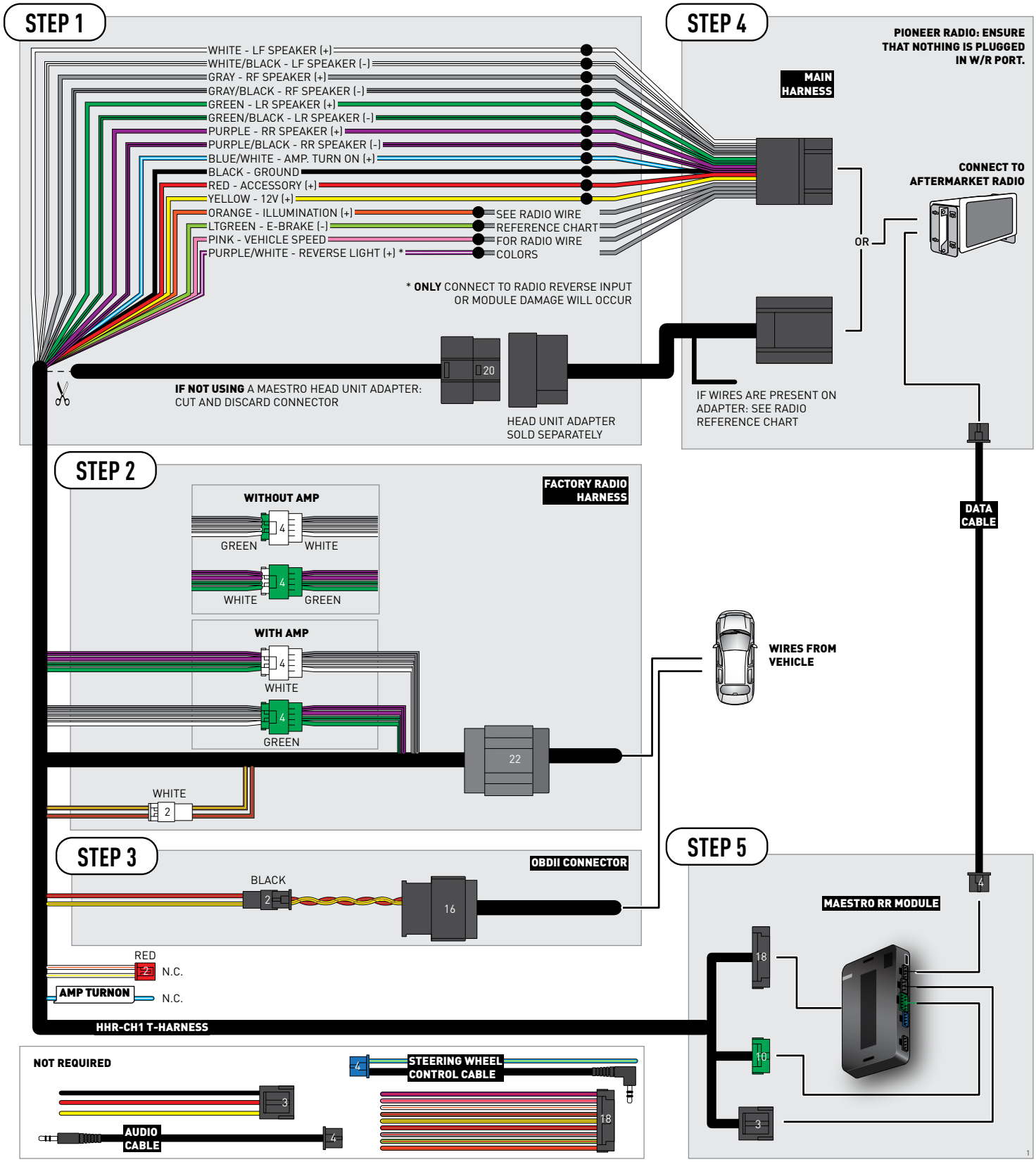

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VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

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IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2009-2010
DODGE JOURNEY

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

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Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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maestro.support@idatalink.com

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

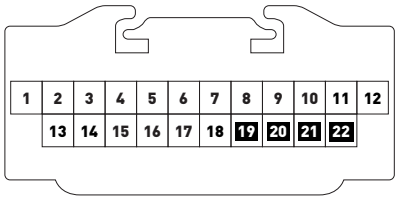


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

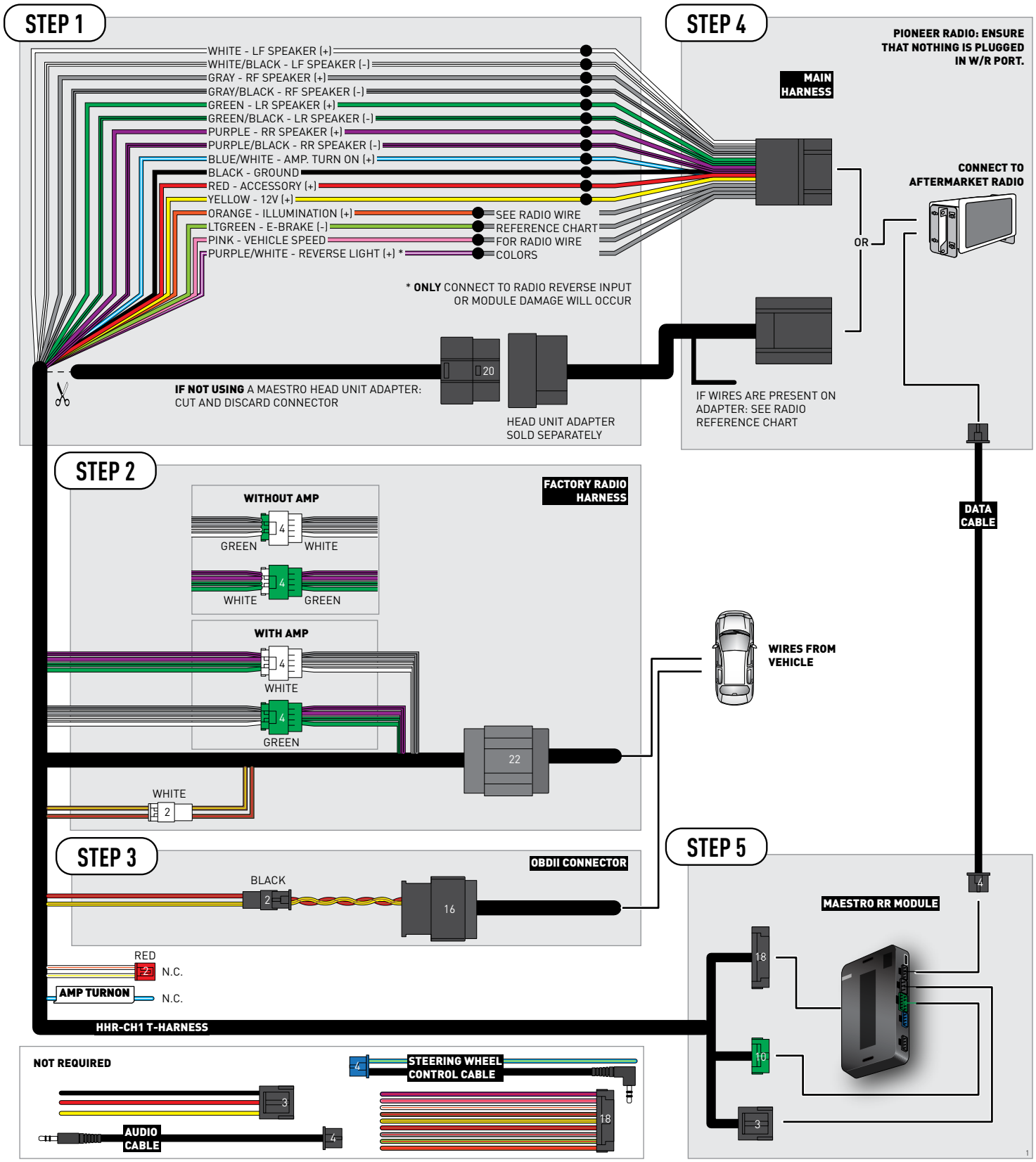
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

1

WIRING DIAGRAM



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CH1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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INSTALL GUIDE

2007-2011
DODGE NITRO

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

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Note: only connect purple/white wire to radio reverse input or module damage will occur.

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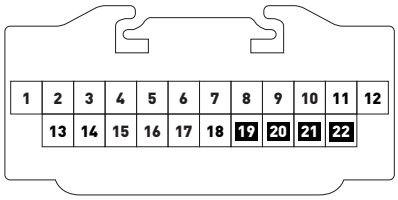
- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.



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- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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- Plug the harnesses into the aftermarket radio.
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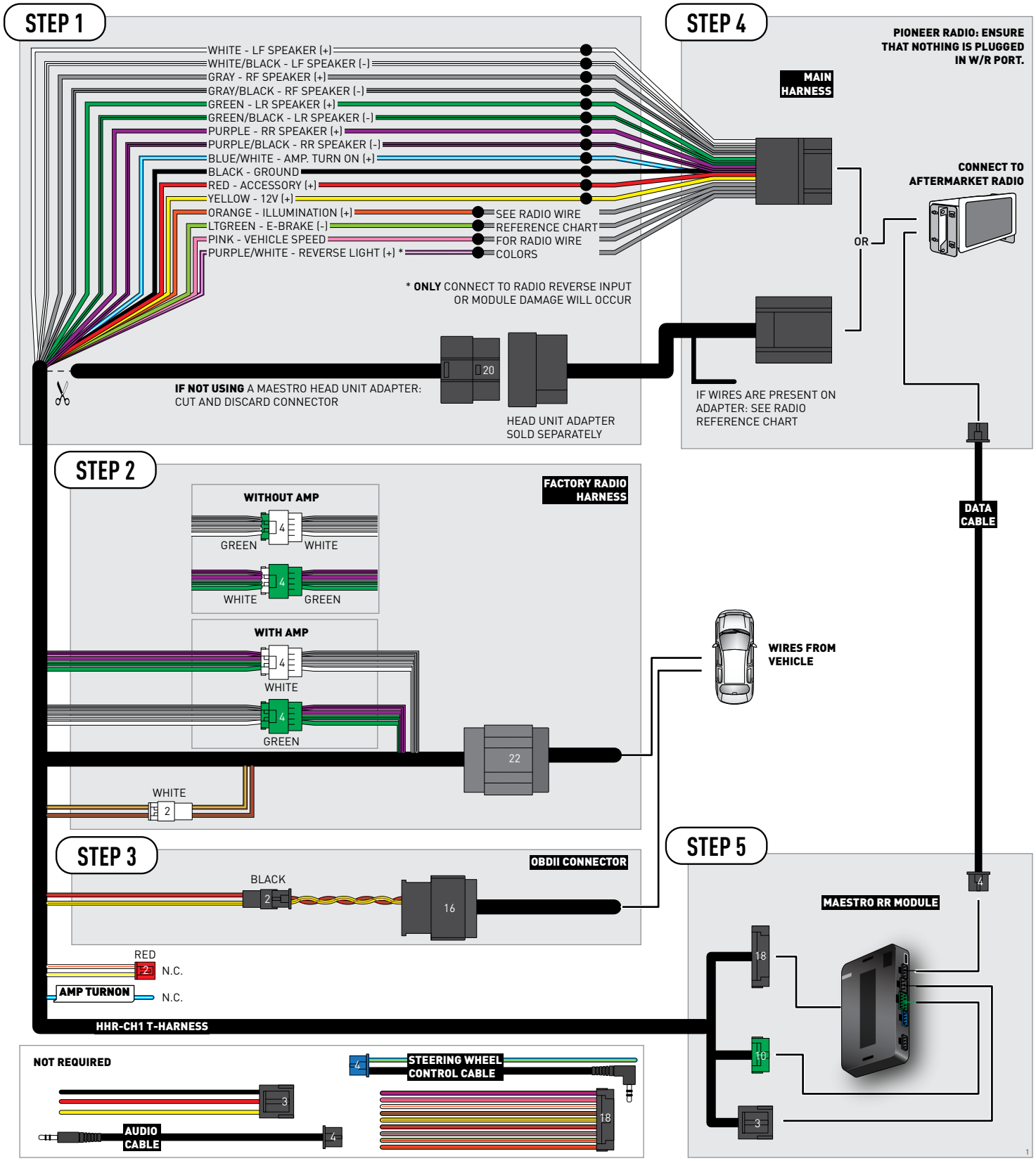
WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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INSTALL GUIDE

2010-2015
DODGE RAM CV

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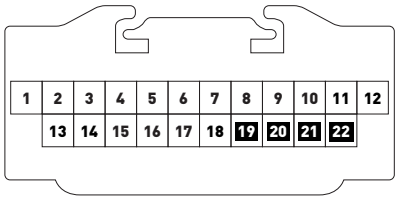

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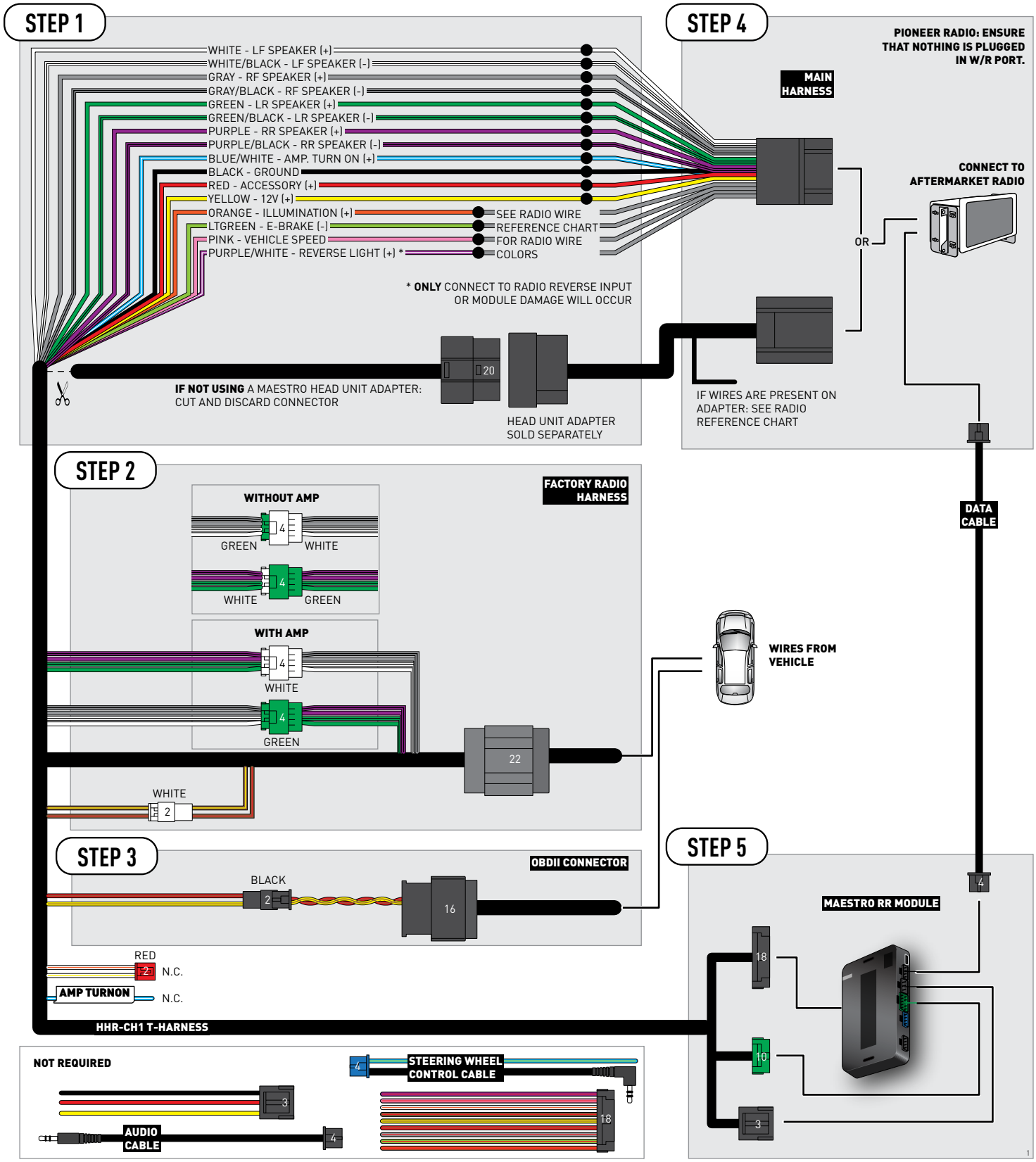

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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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INSTALL GUIDE

2008-2010
JEEP COMMANDER

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

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iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

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Radar Installation Guides

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

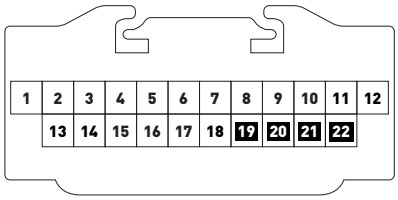


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

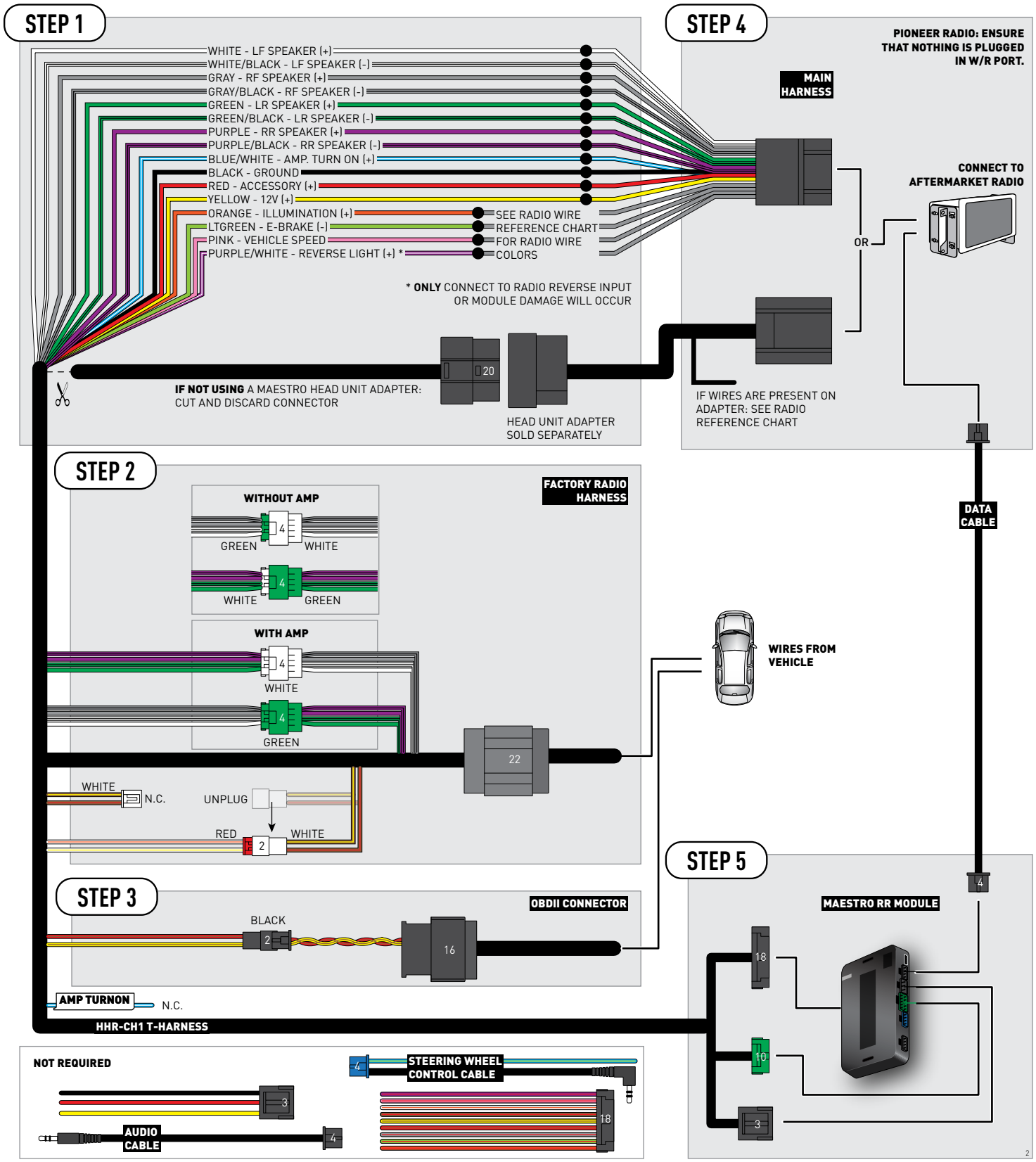
Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

WIRING DIAGRAM



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CH1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
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INSTALL GUIDE

2009-2016
JEEP COMPASS

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

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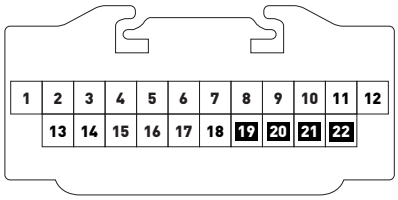
- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.



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- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

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- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

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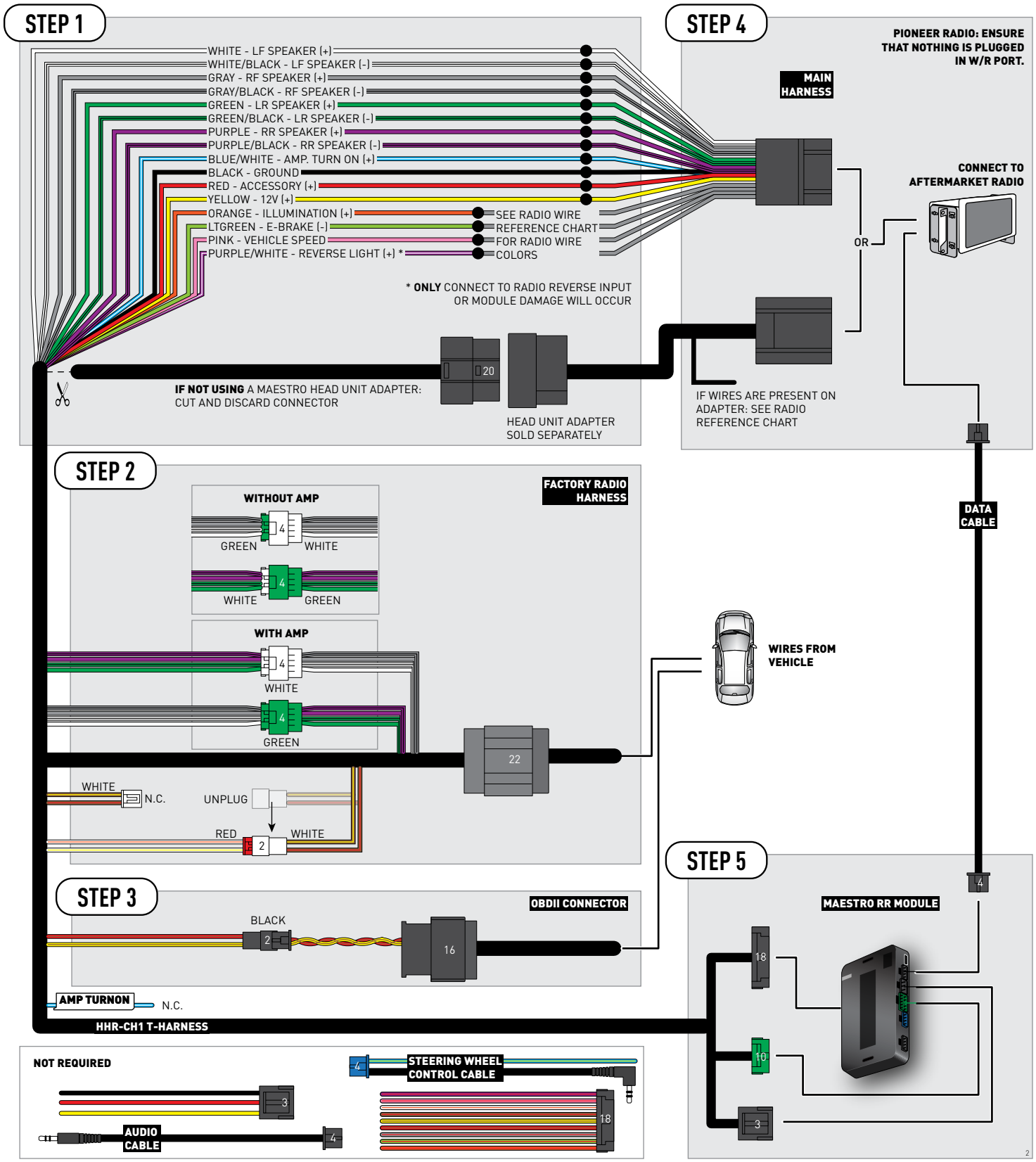
WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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E-Brake	(-)	LtGreen	LtGreen
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JEEP GRAND CHEROKEE

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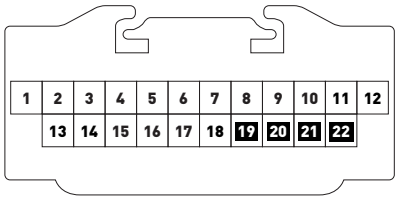

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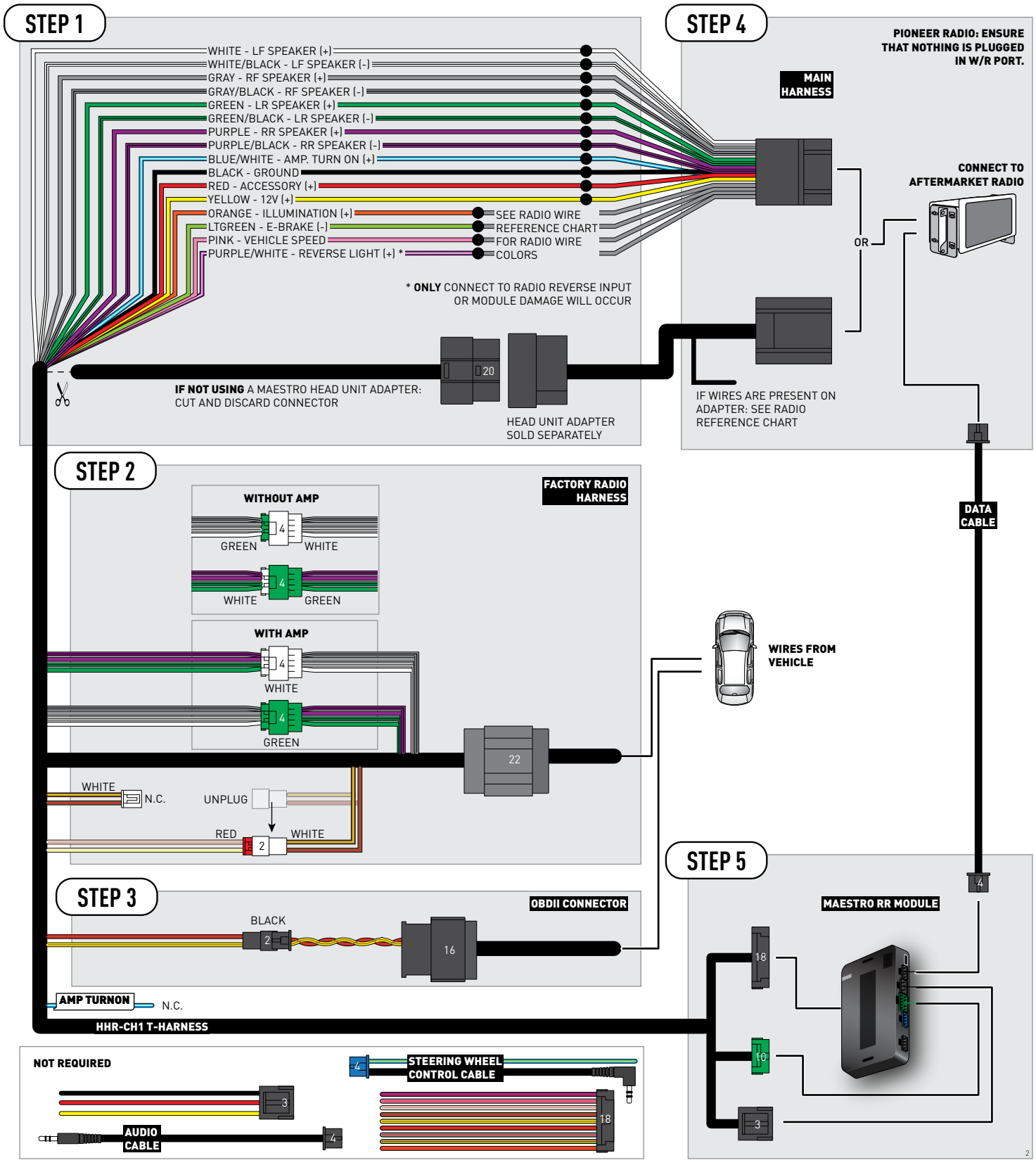

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The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voltdata.com/forum/

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2011-2013
JEEP GRAND CHEROKEE

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

WELCOME

Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

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1 866 427-2999

maestro.support@idatalink.com

maestro.idatalink.com/support
www.12voltdata.com/forum

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

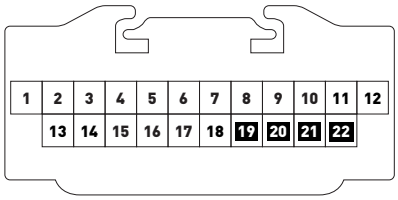


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

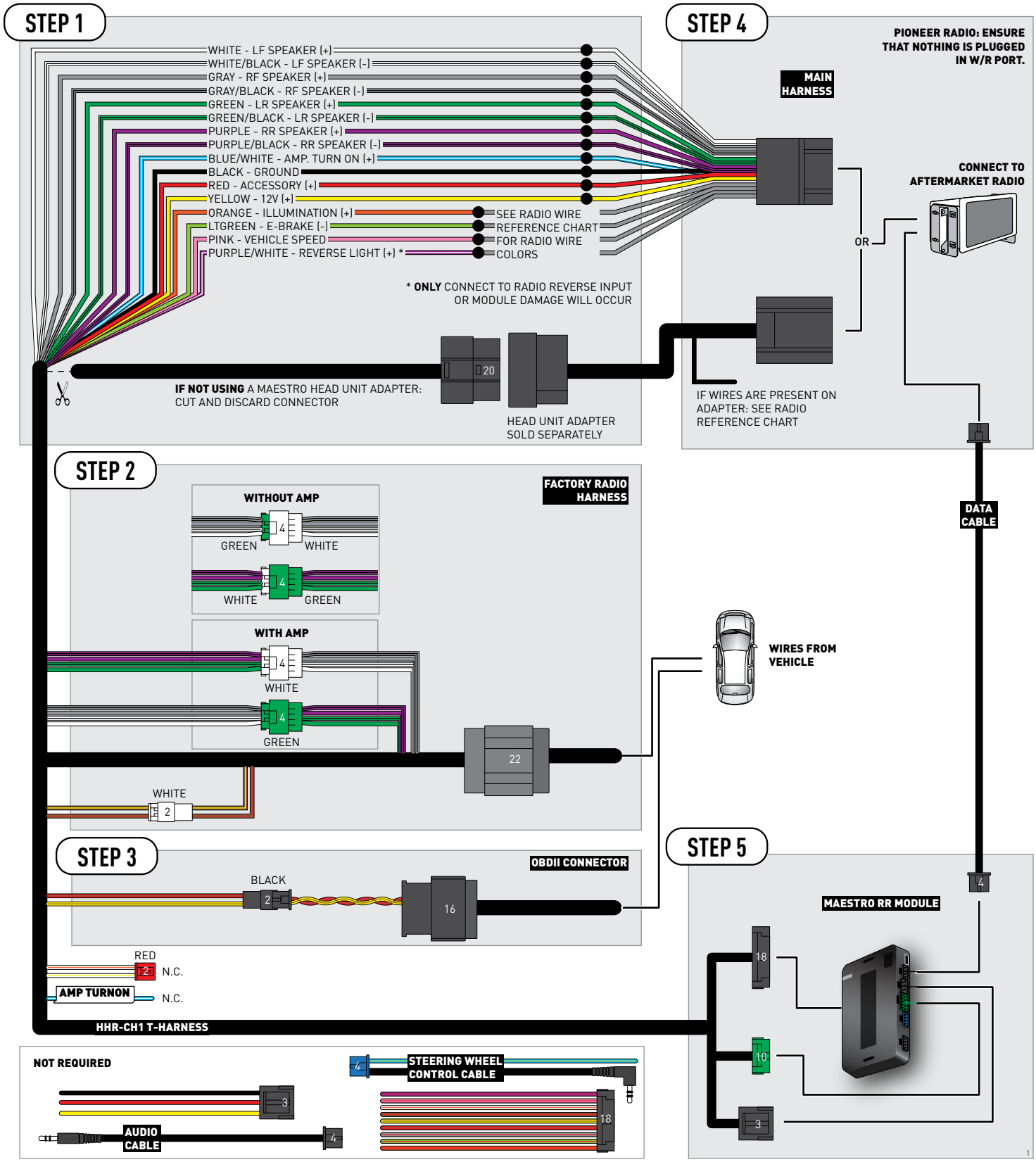
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

1

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CH1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
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INSTALL GUIDE

2008-2012
JEEP LIBERTY

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

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iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

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STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

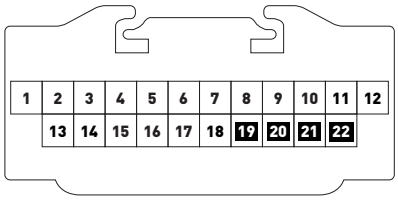

Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

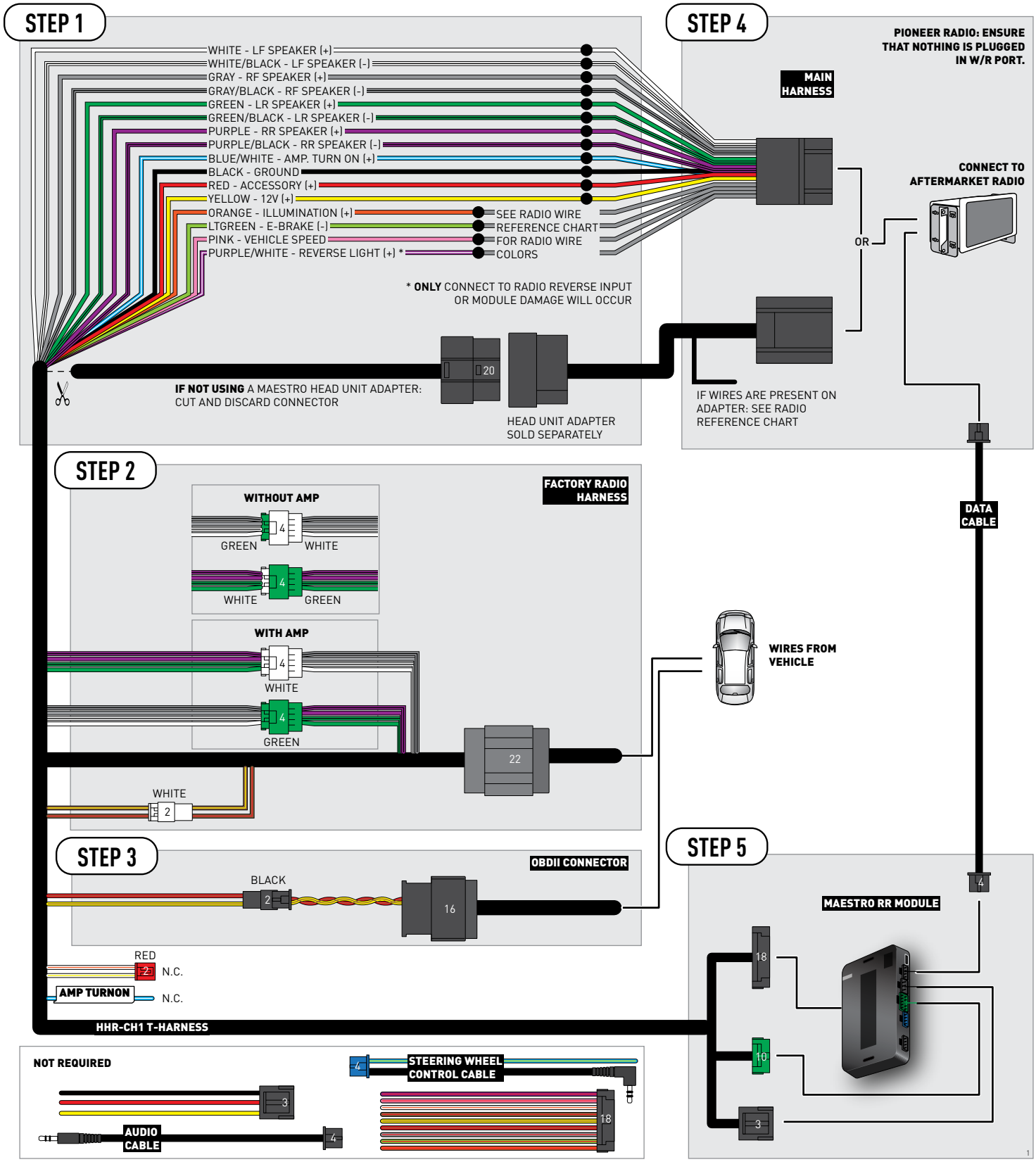
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

1

WIRING DIAGRAM



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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
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INSTALL GUIDE

2009-2016
JEEP PATRIOT

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

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- Unbox the aftermarket radio and locate its main harness.
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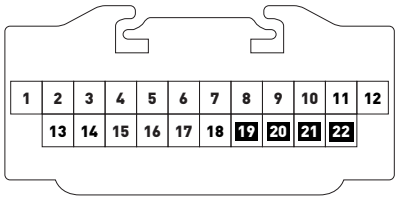

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- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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- Plug the harnesses into the aftermarket radio.
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If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

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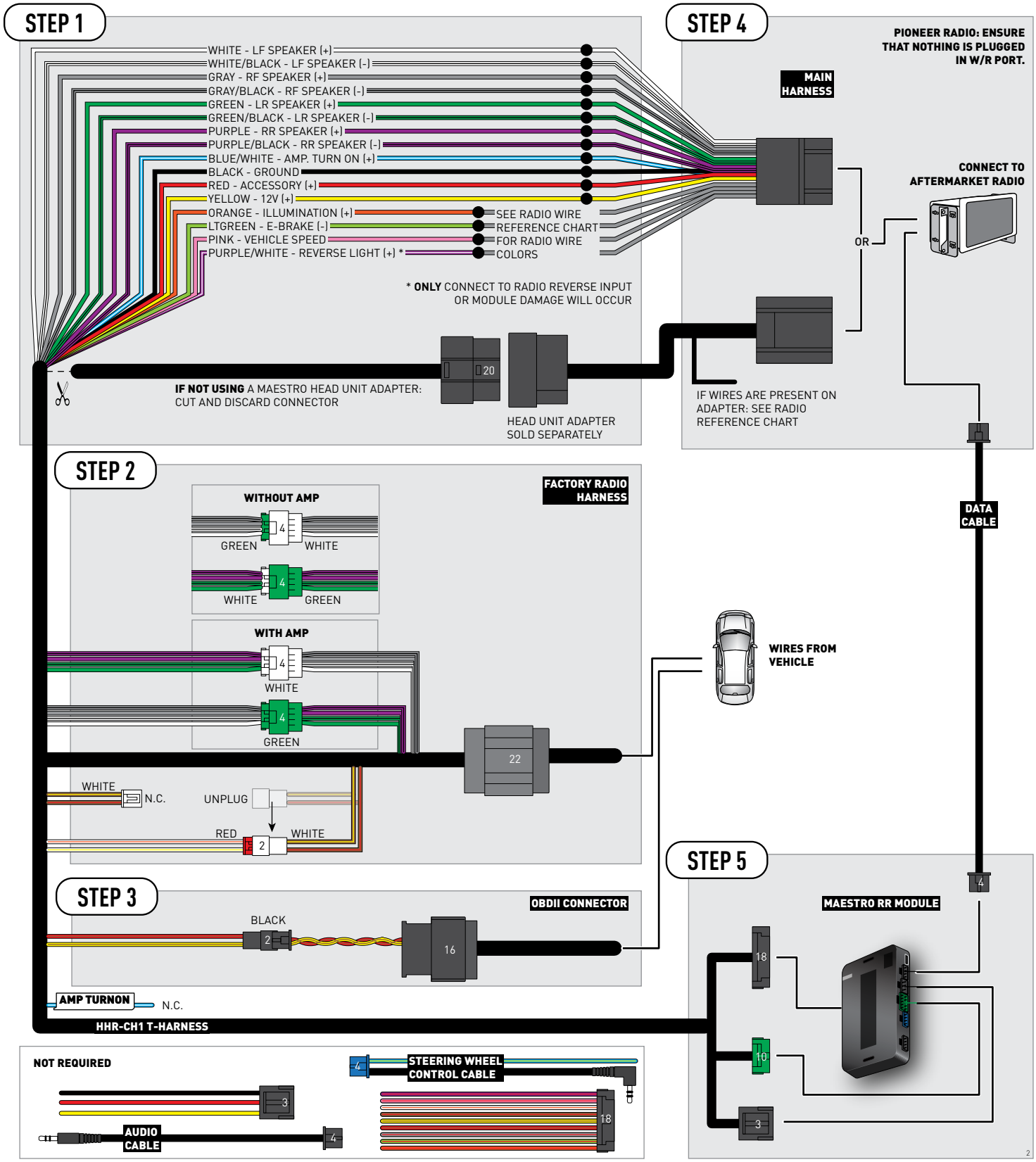
WIRING DIAGRAM



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The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
No sound.	Ensure blue/white wire from harness is connected to radio's amp turn on output. This is usually blue/white but varies by radio manufacturer. Verify speaker wire connections and 4 pin connectors (green and white).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2007-2018
JEEP WRANGLER JK AT

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

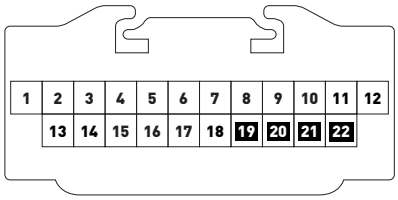


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

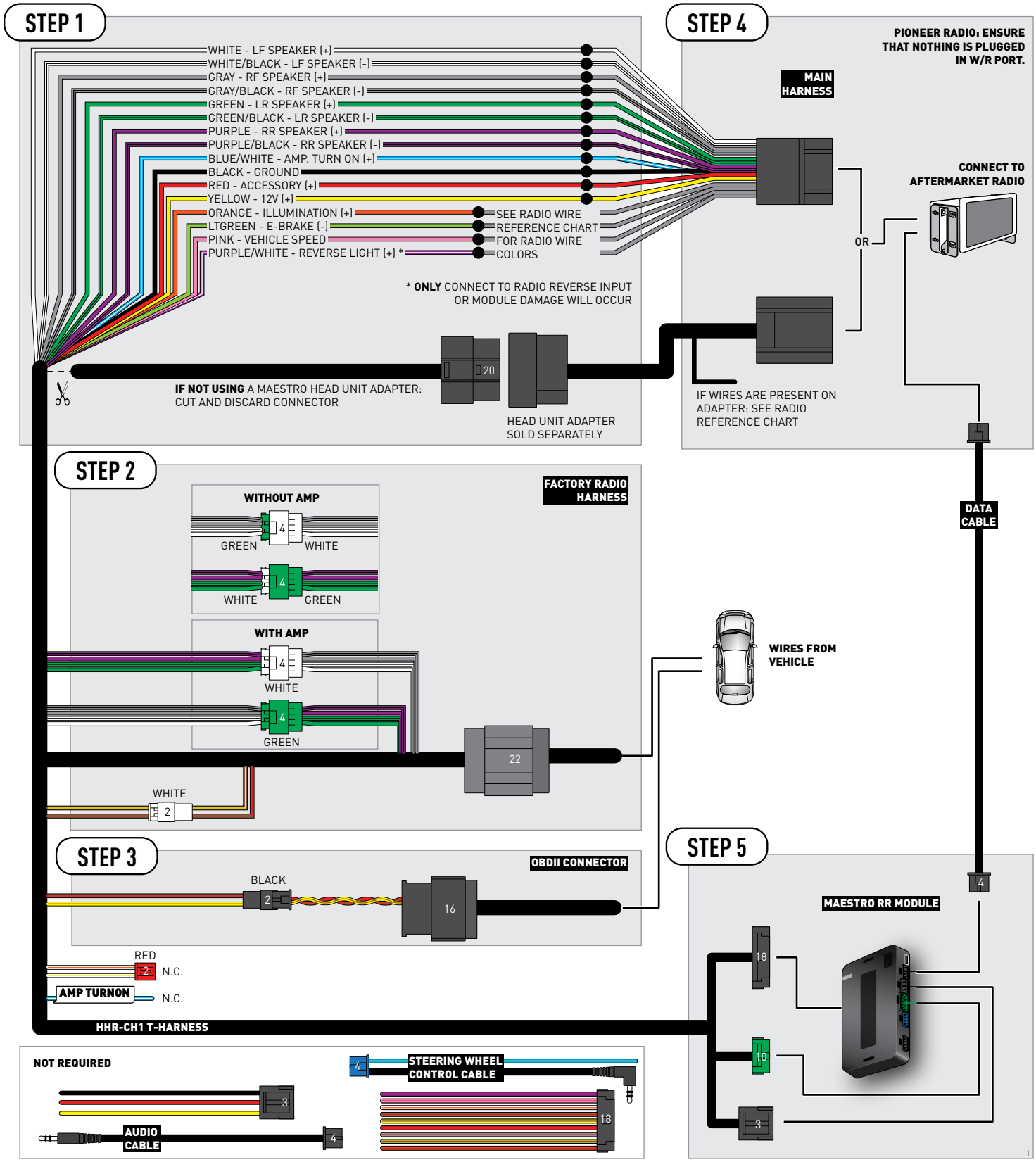
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

1

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CH1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
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INSTALL GUIDE

2007-2018
JEEP WRANGLER JK MT

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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STEP 1

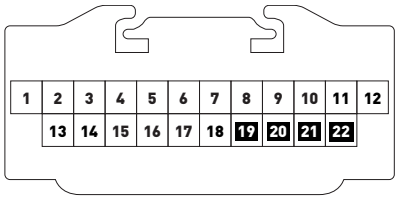
Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.



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If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
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- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 5

- To connect reverse camera, connect PURPLE/WHITE Reverse Light (+) wire from aftermarket radio to White/Gray wire in harness in passenger kick panel.

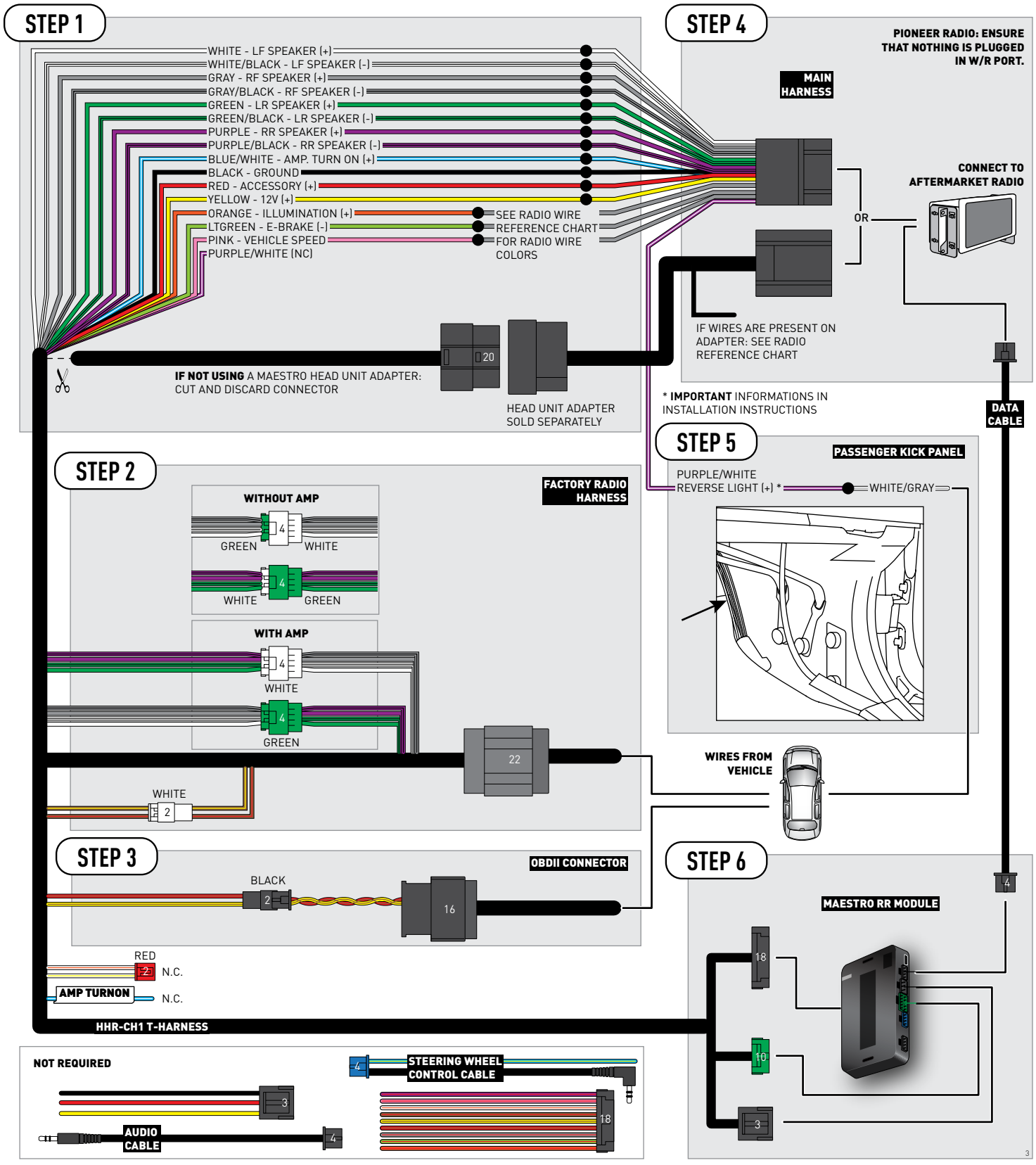
Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 6

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

WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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E-Brake	(-)	LtGreen	LtGreen
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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TROUBLESHOOTING TABLE

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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
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INSTALL GUIDE

2008-2009
MITSUBISHI RAIDER

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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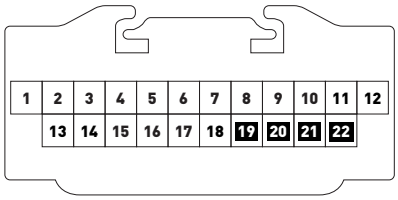

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- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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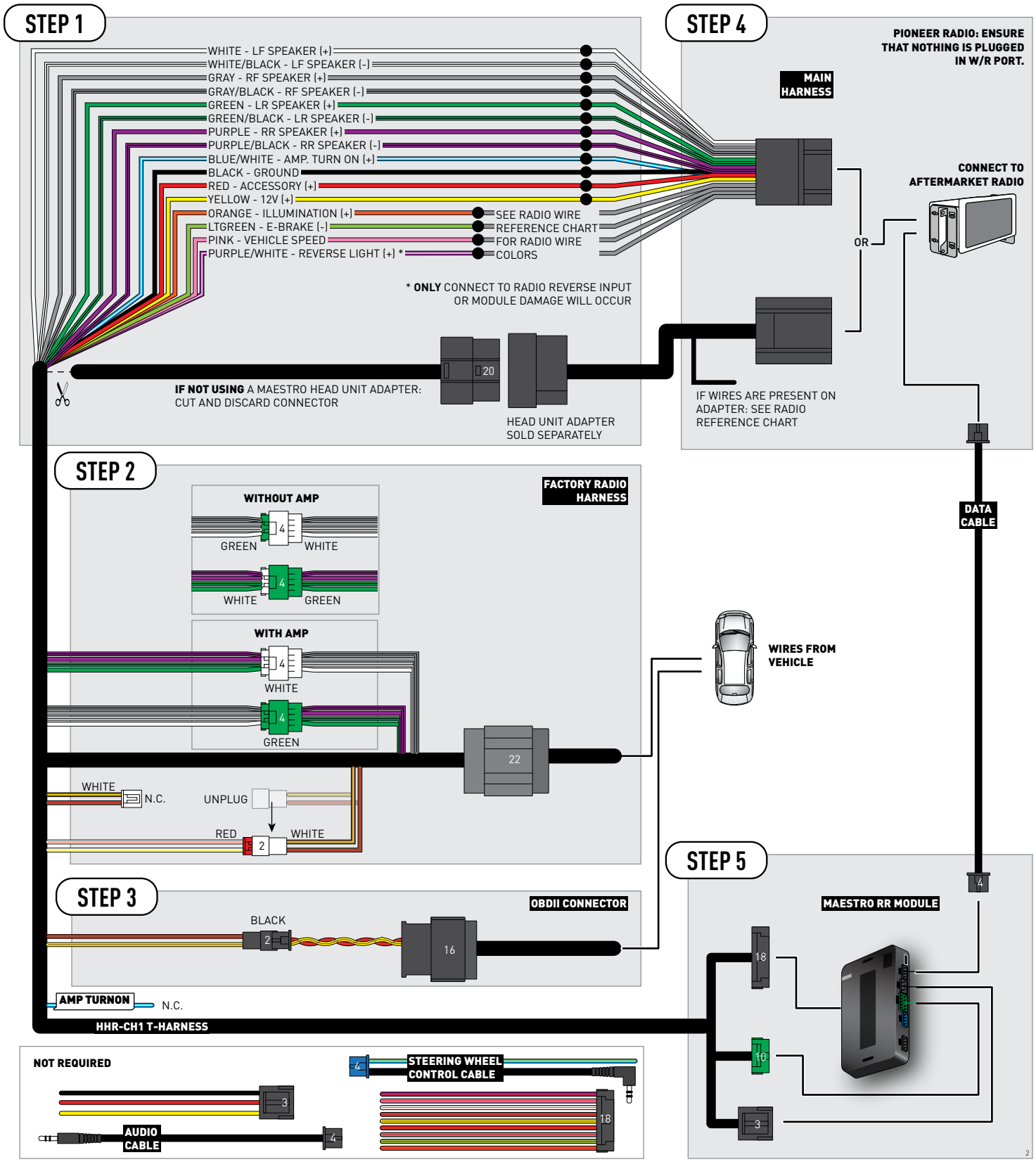

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MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

Web: maestro.idatalink.com/support add www.12voltdata.com/forum/

IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2009-2012
RAM PICKUP

RETAINS STEERING WHEEL CONTROLS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-CH1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

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INSTALLATION INSTRUCTIONS P1/1

Note: VES cannot be retained in this vehicle.

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

  Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.

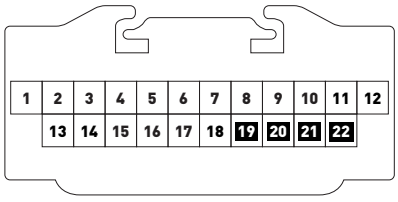


Fig. 2.1

If you don't have wires in PIN 19, 20, 21 and 22, you have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:

- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.

- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

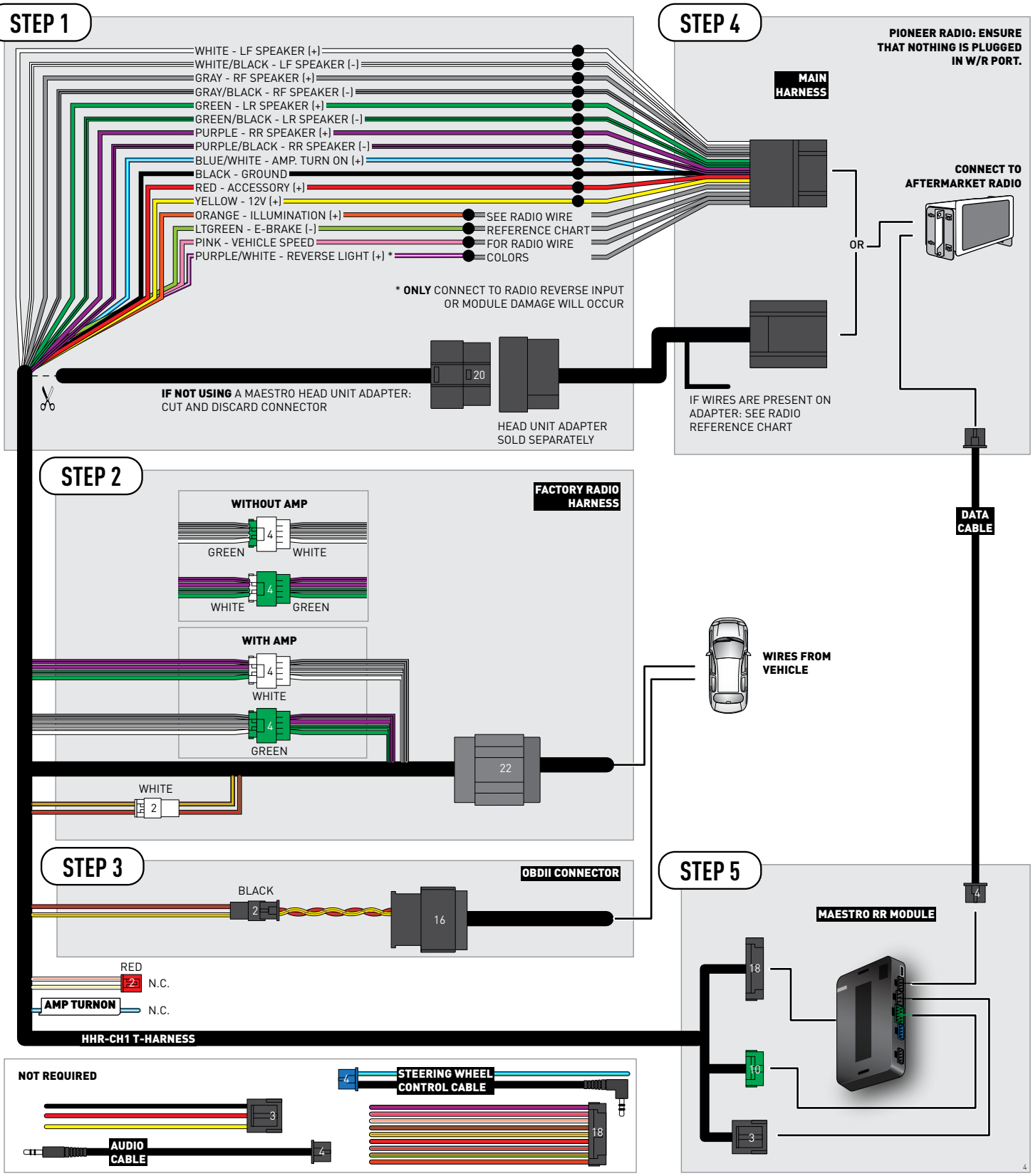
Note: Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 5

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

WIRING DIAGRAM



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CH1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/ BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Switch the 4-pin green and white connectors in the t-harness.
The radio doesn't turn on. LED on the Maestro is not flashing.	Ensure the white and red 2-pin connectors are connected as shown in the diagram. Test for power at the large 3 pin connector of the harness. With it plugged in and vehicle turned on, we should have power on the red and yellow wires.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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2008-2011
VOLKSWAGEN ROUTAN

RETAINS STEERING WHEEL CONTROLS, AND MORE!

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STEP 1

Remove the factory radio

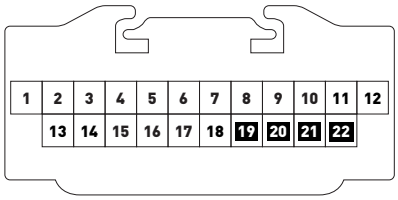
If using head unit adapter (sold separately), connect HRR-CH1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-CH1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-CH1 T-harness and match the wire functions.

Note: only connect purple/white wire to radio reverse input or module damage will occur.

STEP 2

- Access the main 22 pin factory radio connector **(2.1)** and determine if you have a factory amplifier.



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STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.

Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

Note: Refer to radio wire chart for radio's reverse light wire color.

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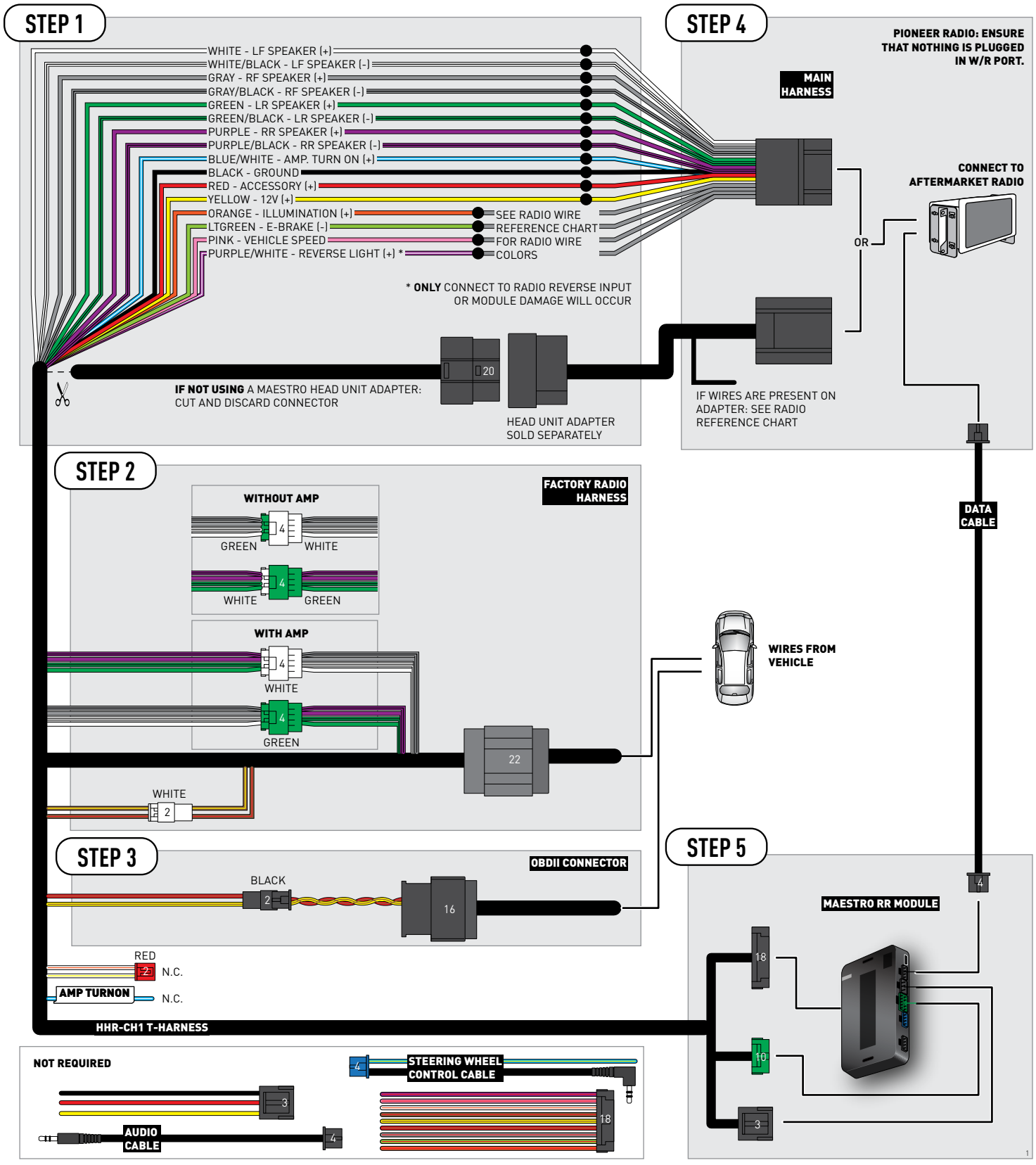
STEP 5

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

1

WIRING DIAGRAM



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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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E-Brake	(-)	LtGreen	LtGreen
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

* Reverse light wire: Only connect to radio or module damage will occur.

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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INSTALL GUIDE

2012-2014
VOLKSWAGEN ROUTAN

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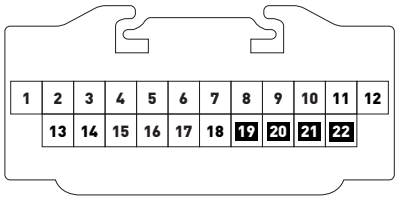

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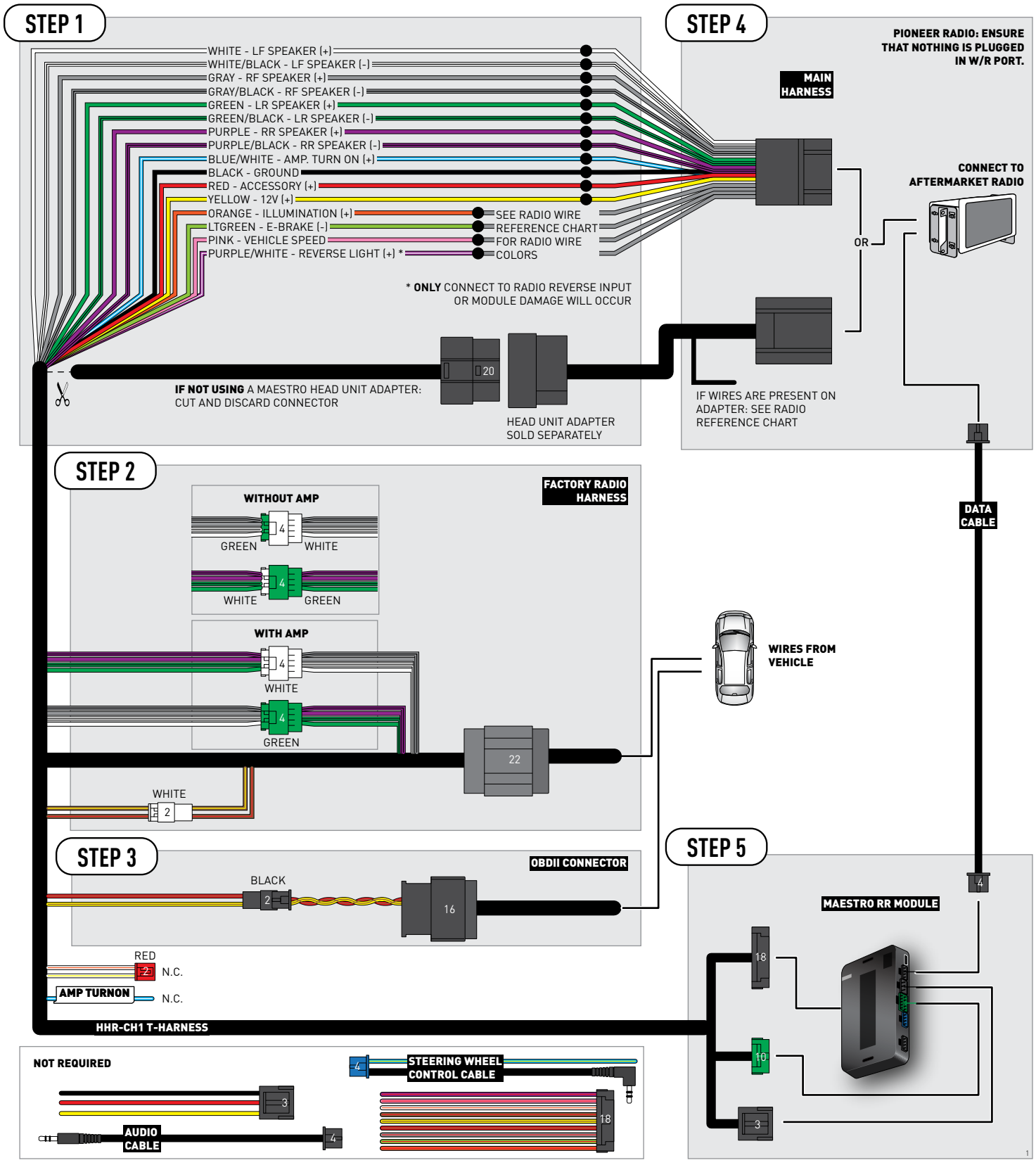

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