



## 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.

**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:  
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# 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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Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

# NEED HELP?

 1 866 427-2999

 [maestro.support@idatalink.com](mailto:maestro.support@idatalink.com)

# 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.

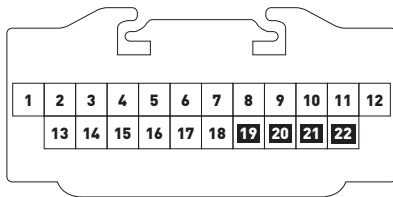


Fig. 2.1

**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.

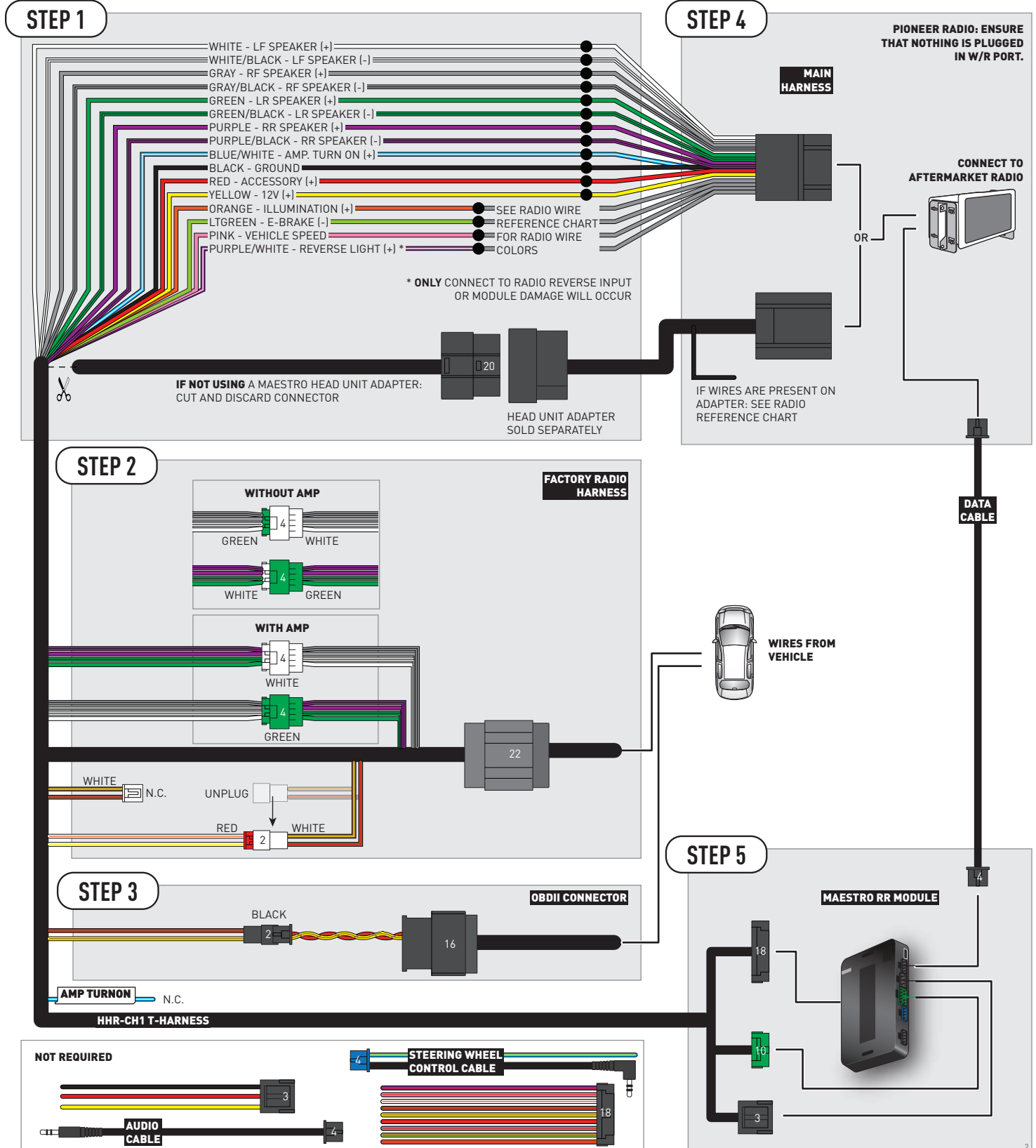
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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



# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

<a href="#">VIDEO HELP</a>		Installation, product information, vehicle specific videos.
<a href="#">VERIFY FLASH</a>		Last flash information, steering control configuration, vehicle information.
<a href="#">WEBLINK</a>		Software to program module.

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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- 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.

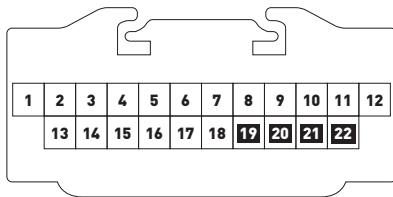


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- Connect the factory radio harness to the HRR-CH1 T-harness.

## STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
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- Plug the harnesses into the aftermarket radio.
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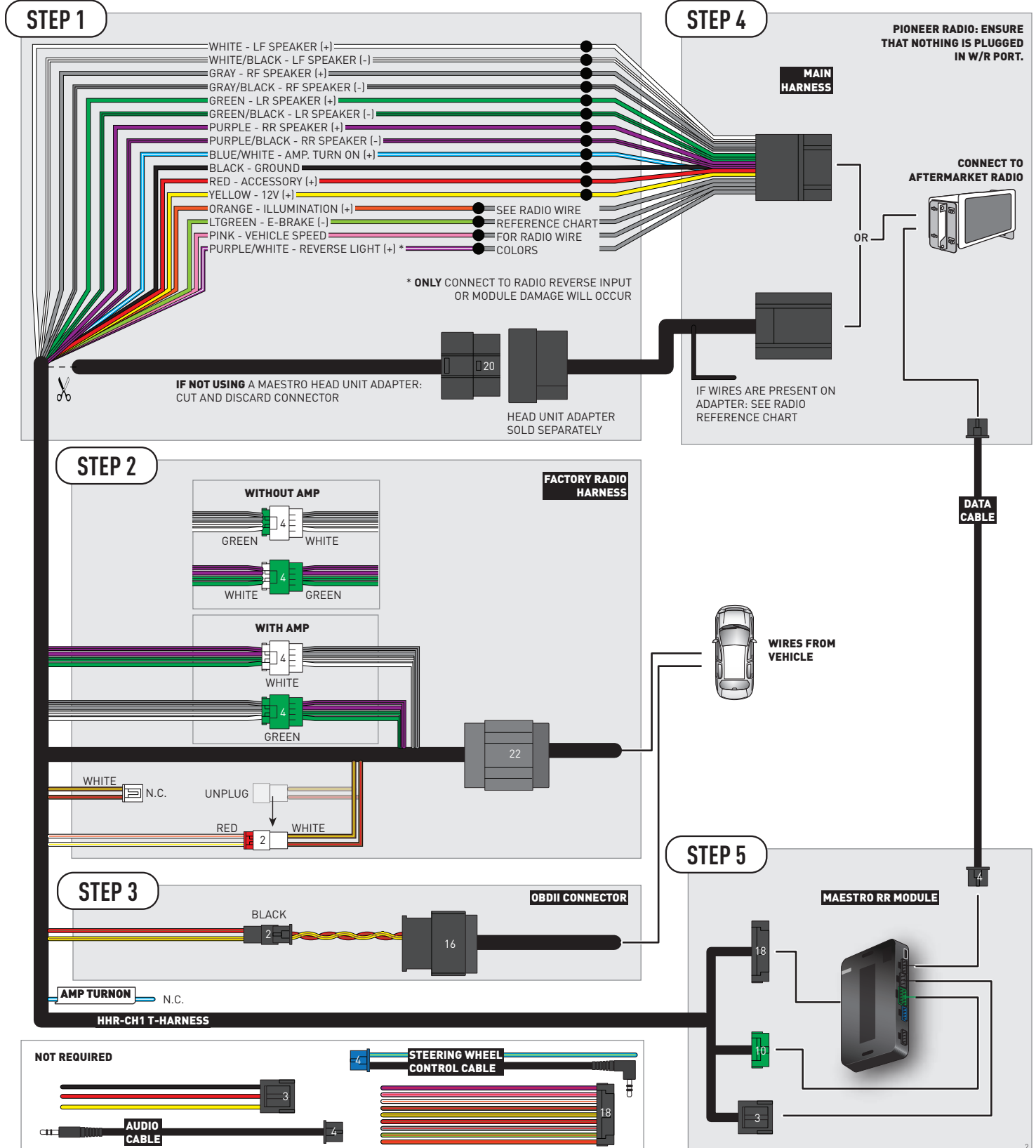
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
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## Head unit adapter wiring (optional accessory, sold separately)

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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# INSTALLATION INSTRUCTIONS P1/1

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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.

**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.

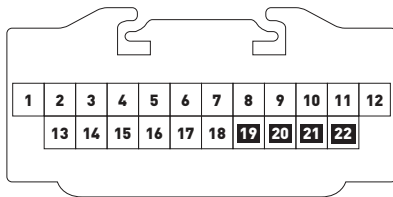


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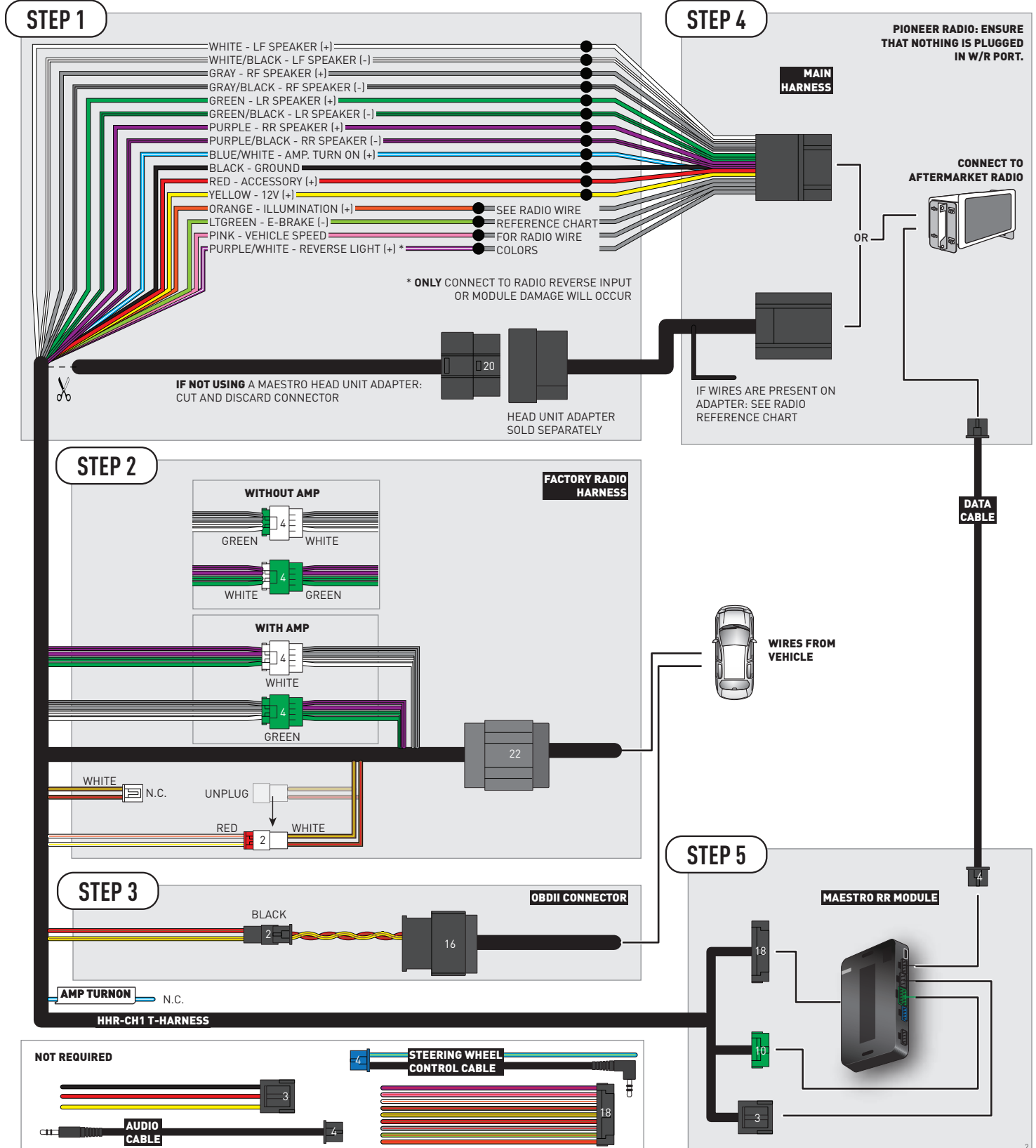
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RETAINS STEERING WHEEL CONTROLS, AND MORE!



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iDatalink Maestro HRR-CH1 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-CHR01-DS

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#### OPTIONAL ACCESSORIES

**K40**<sup>™</sup>  
ELECTRONICS  
**ESCORT**

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Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7



# 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.

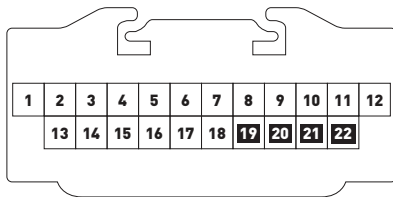


Fig. 2.1

**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.

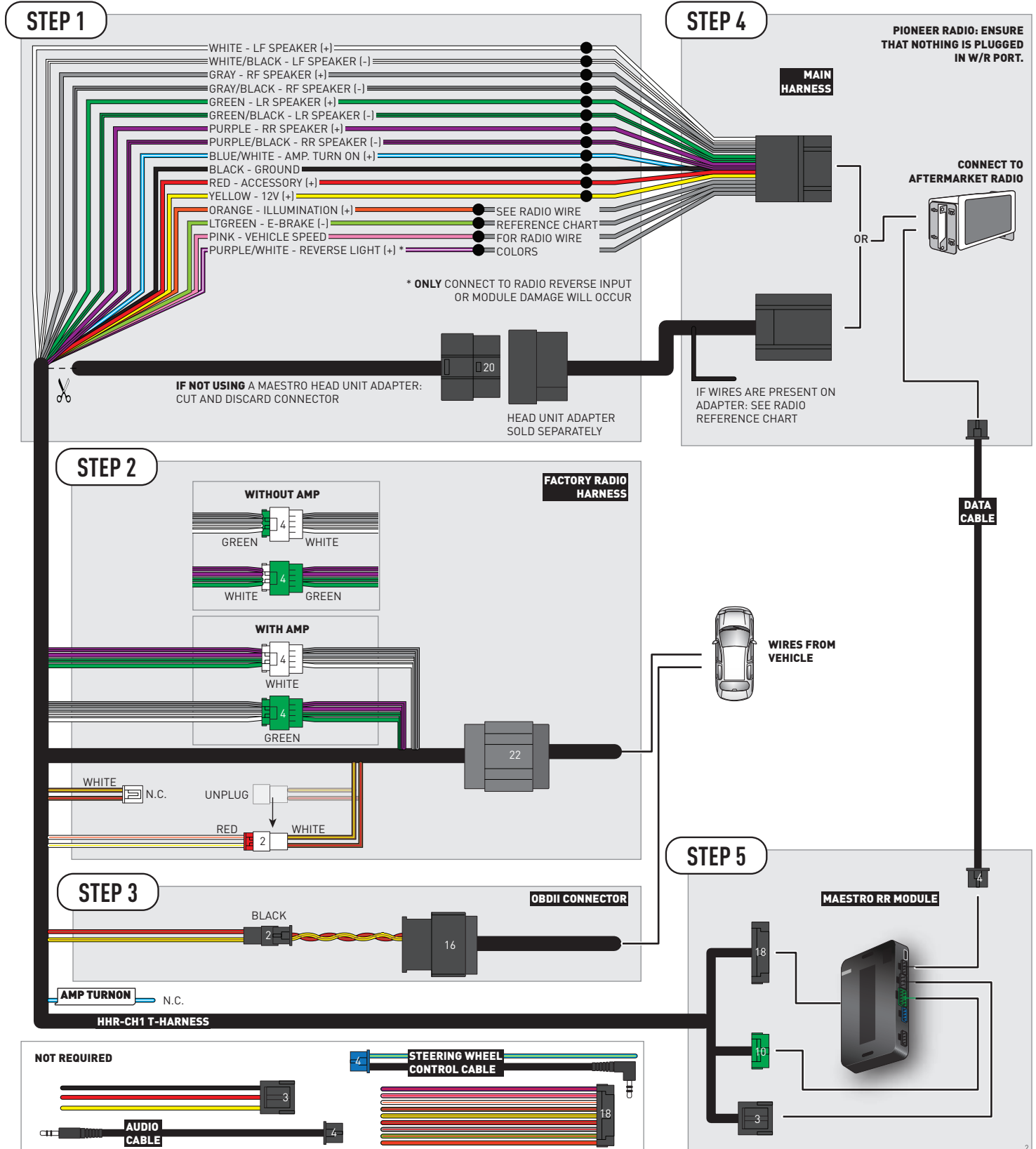
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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



# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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## 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.

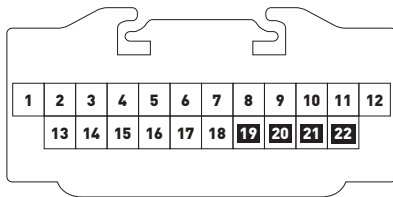


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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.
- Connect together the 2-pin white connectors of your HRR-CH1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

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

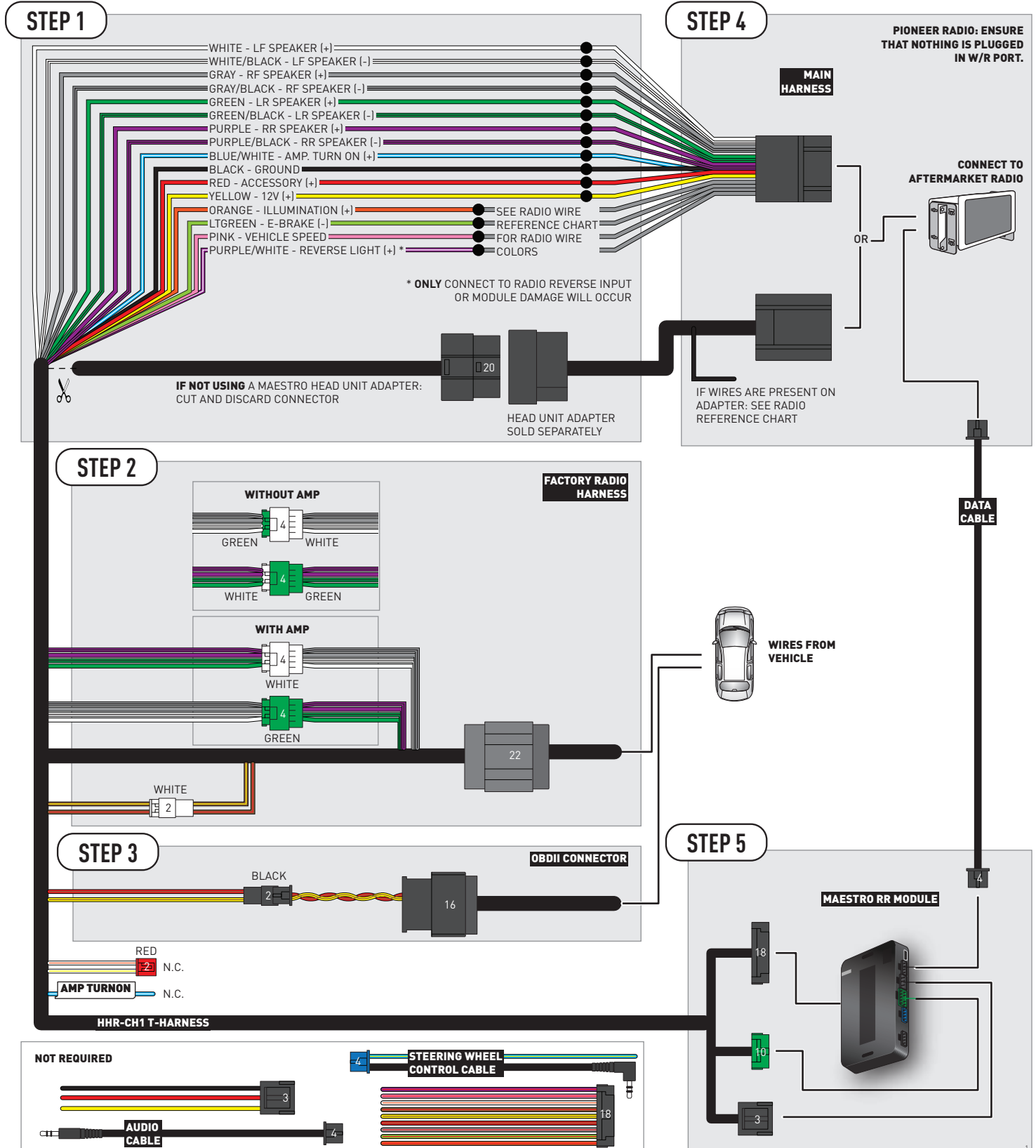
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

## STEP 5

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



# WIRING DIAGRAM



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## Head unit adapter wiring (optional accessory, sold separately)

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ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
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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

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Turn the key to the OFF position, then disconnect all connectors from the module.

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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.

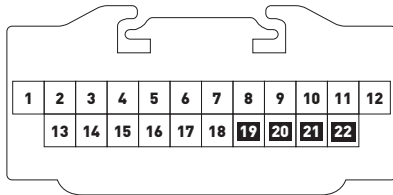


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- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.
- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

## 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.

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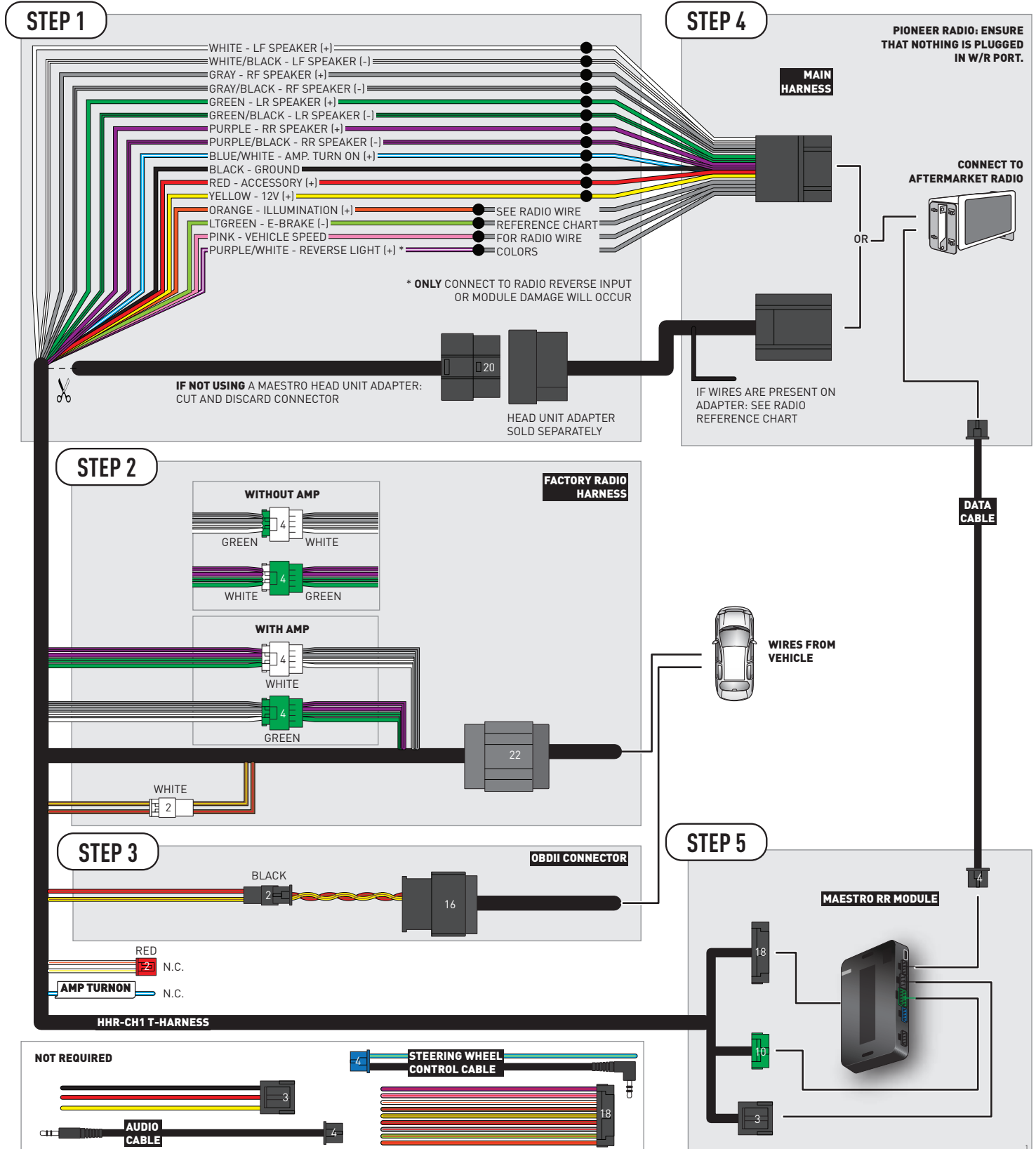
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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## STEP 5

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

# WIRING DIAGRAM





# RADIO WIRE REFERENCE CHART

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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**RETAINS STEERING WHEEL CONTROLS, AND MORE!**



#### PRODUCTS REQUIRED

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

#### PROGRAMMED FIRMWARE

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#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES



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Troubleshooting Table	7

# NEED HELP?

 1 866 427-2999

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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.

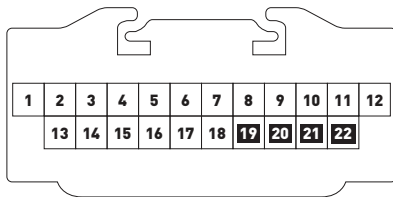


Fig. 2.1

**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.

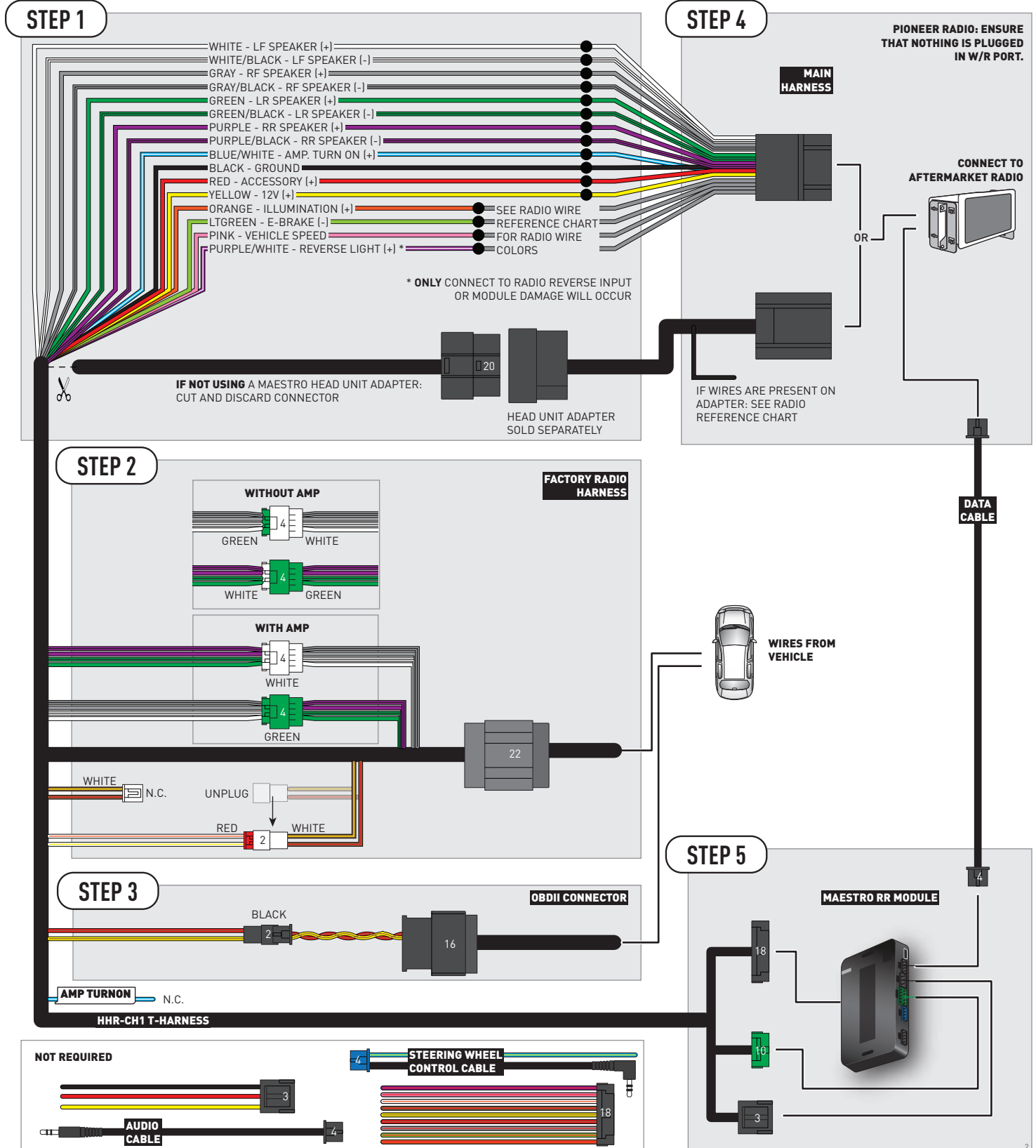
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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



# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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<a href="#">WEBLINK</a>		Software to program module.

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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**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.

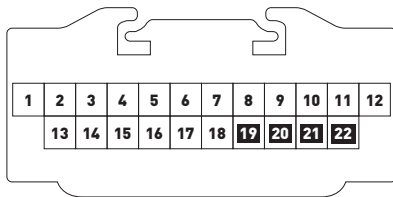


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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
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- Connect the factory radio harness to the HRR-CH1 T-harness.

## STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
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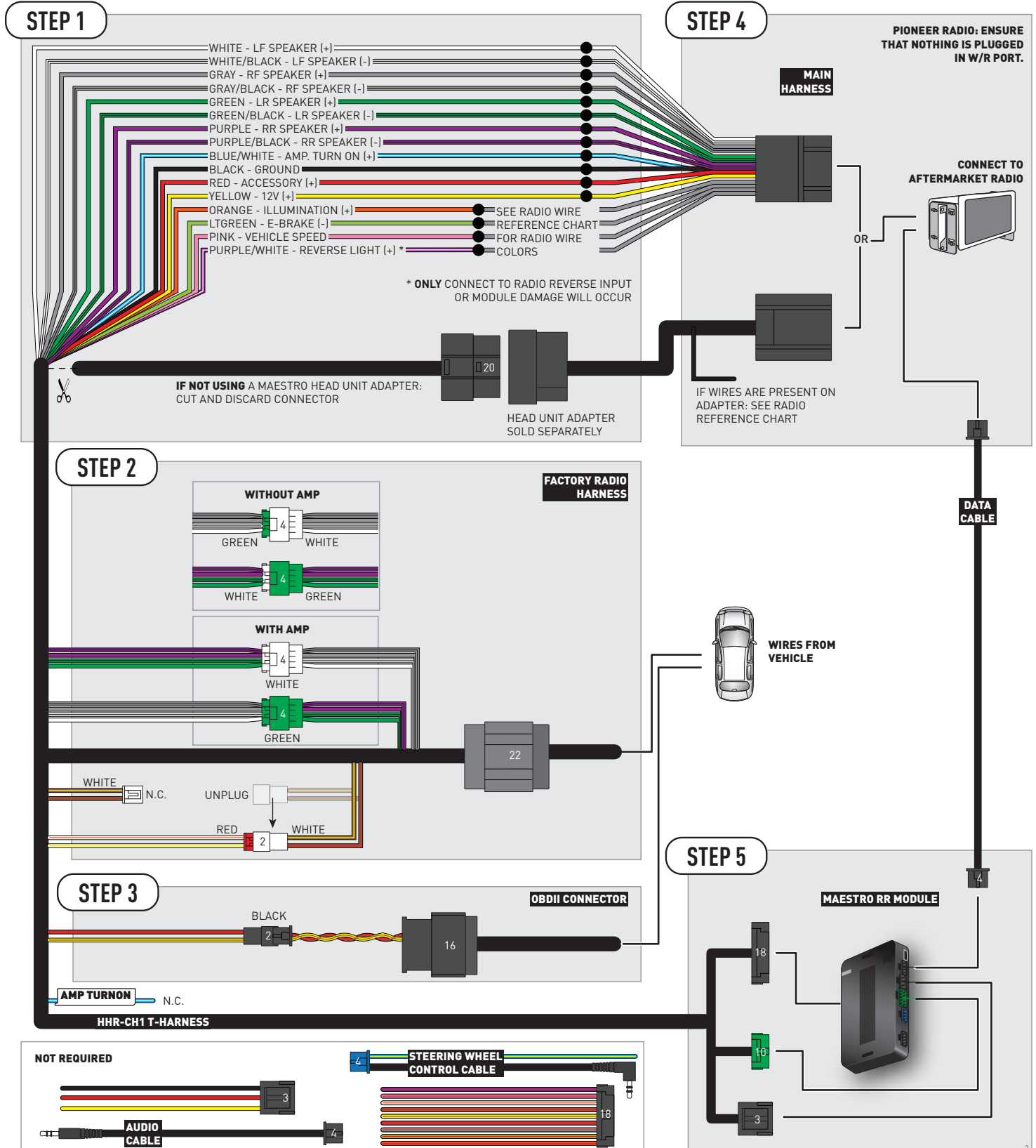
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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

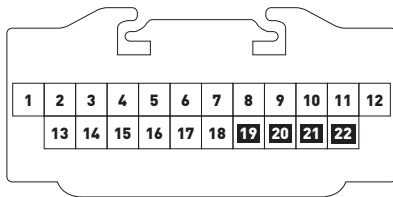


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- Connect the factory radio harness to the HRR-CH1 T-harness.

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- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
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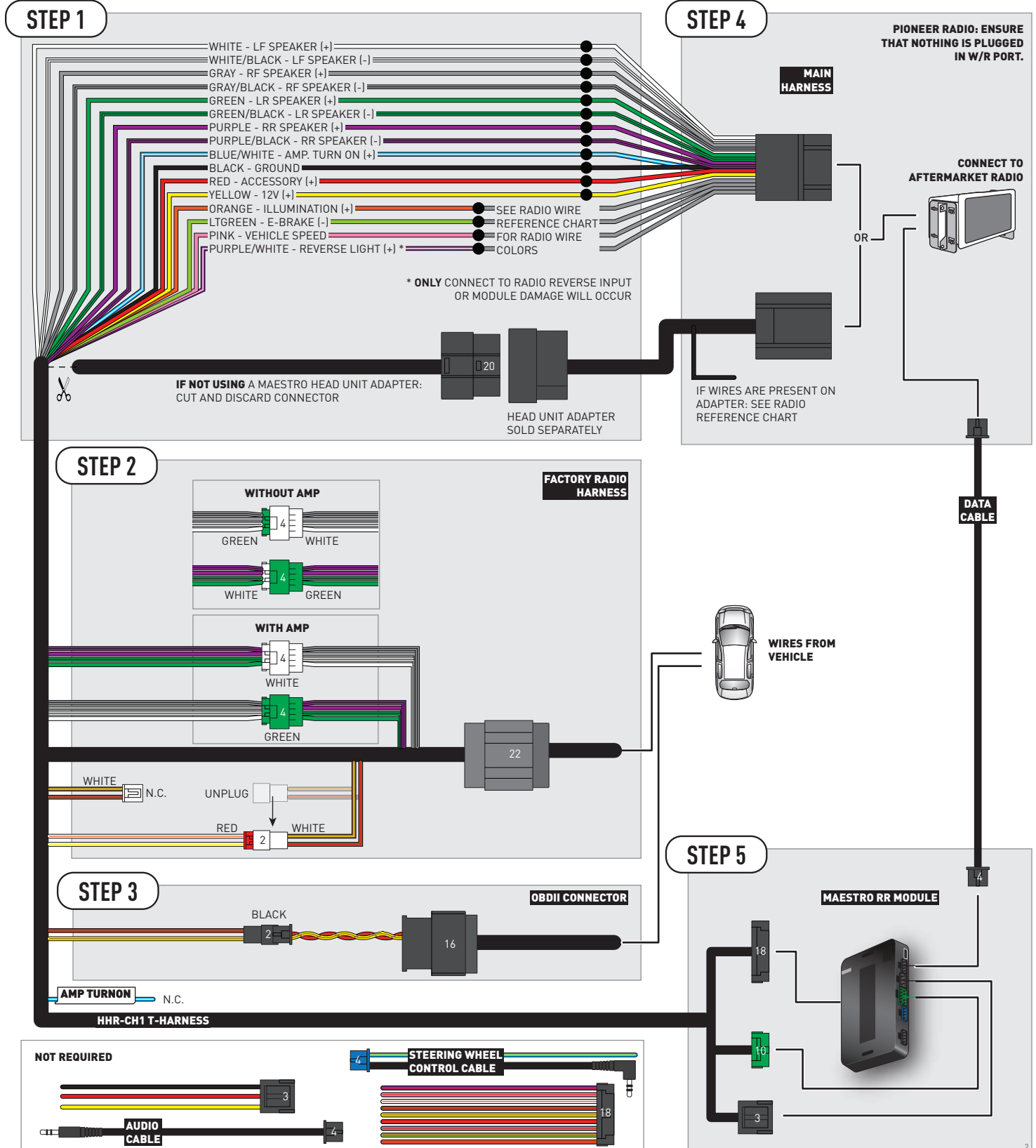
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RETAINS STEERING WHEEL CONTROLS, AND MORE!



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iDatalink Maestro HRR-CH1 Installation Harness

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**K40**<sup>™</sup>  
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Troubleshooting Table	7

# 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.

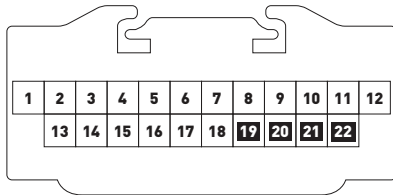


Fig. 2.1

**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.

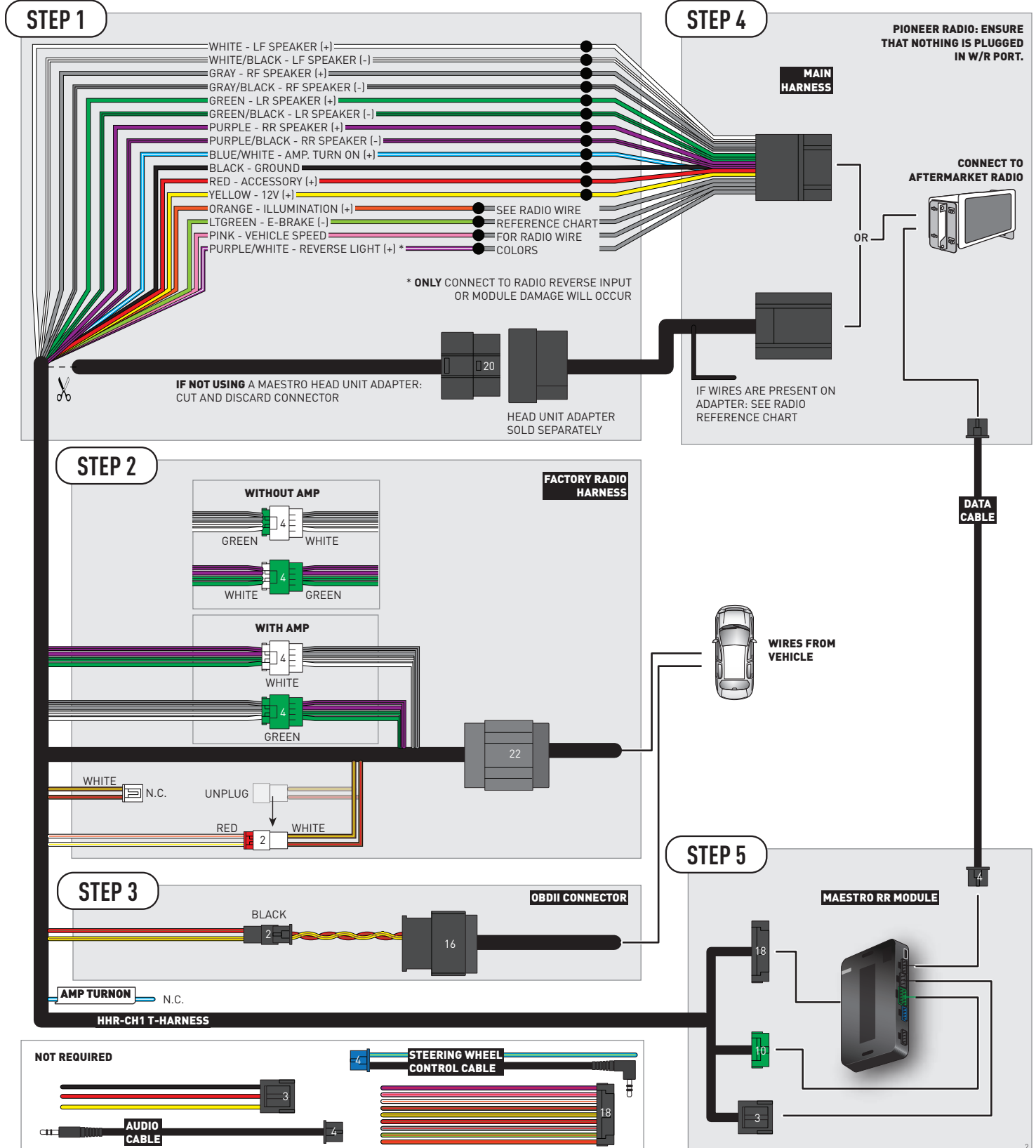
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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



# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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## 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.

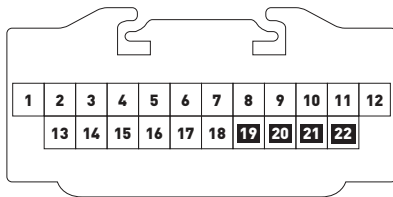


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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.
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- Connect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

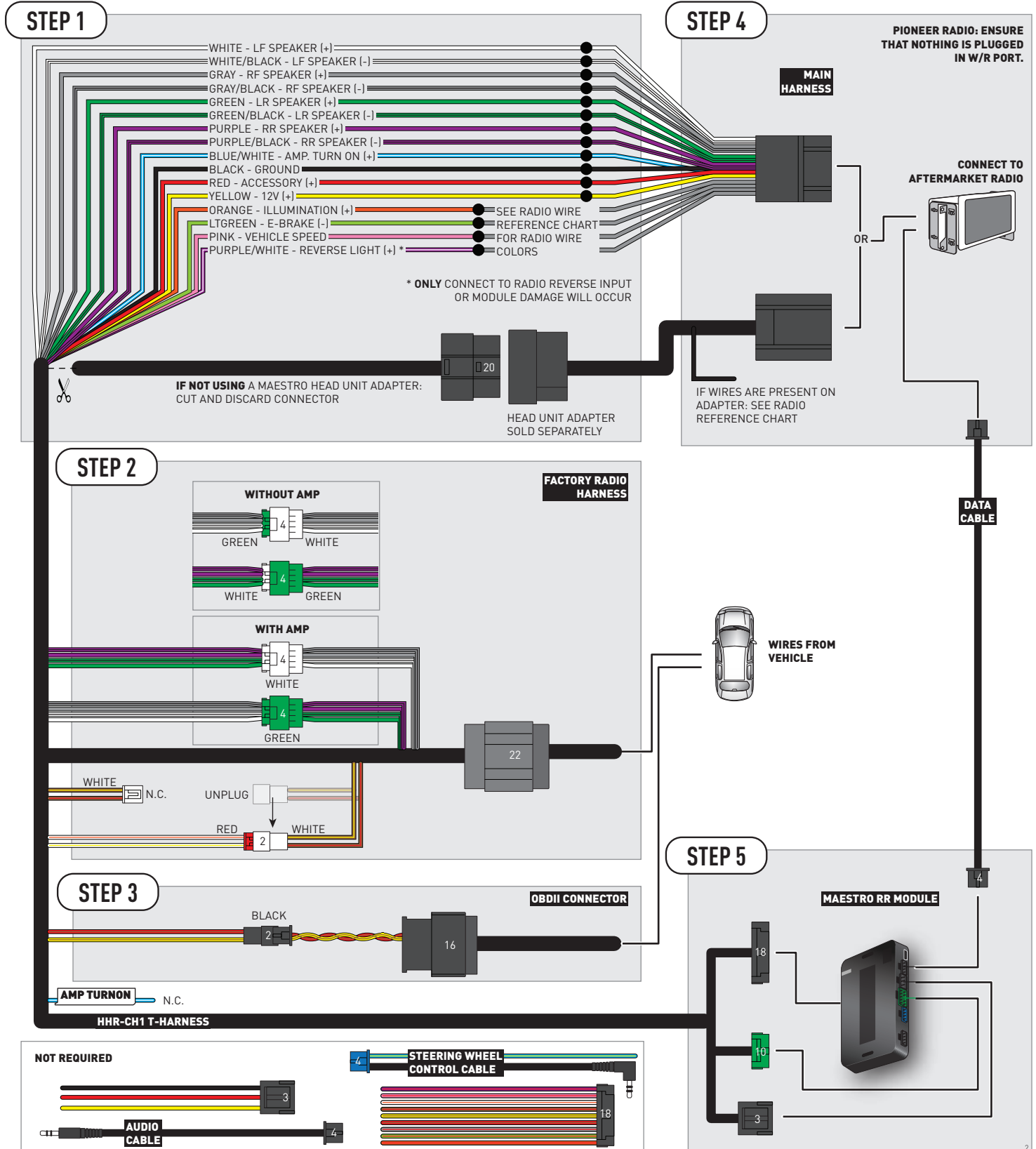
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

## STEP 5

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

# WIRING DIAGRAM



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

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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Turn the key to the OFF position, then disconnect all connectors from the module.

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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.

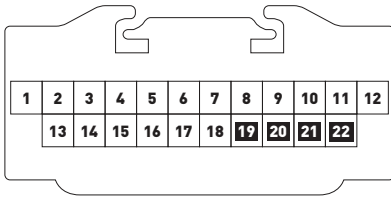


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- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.
- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

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

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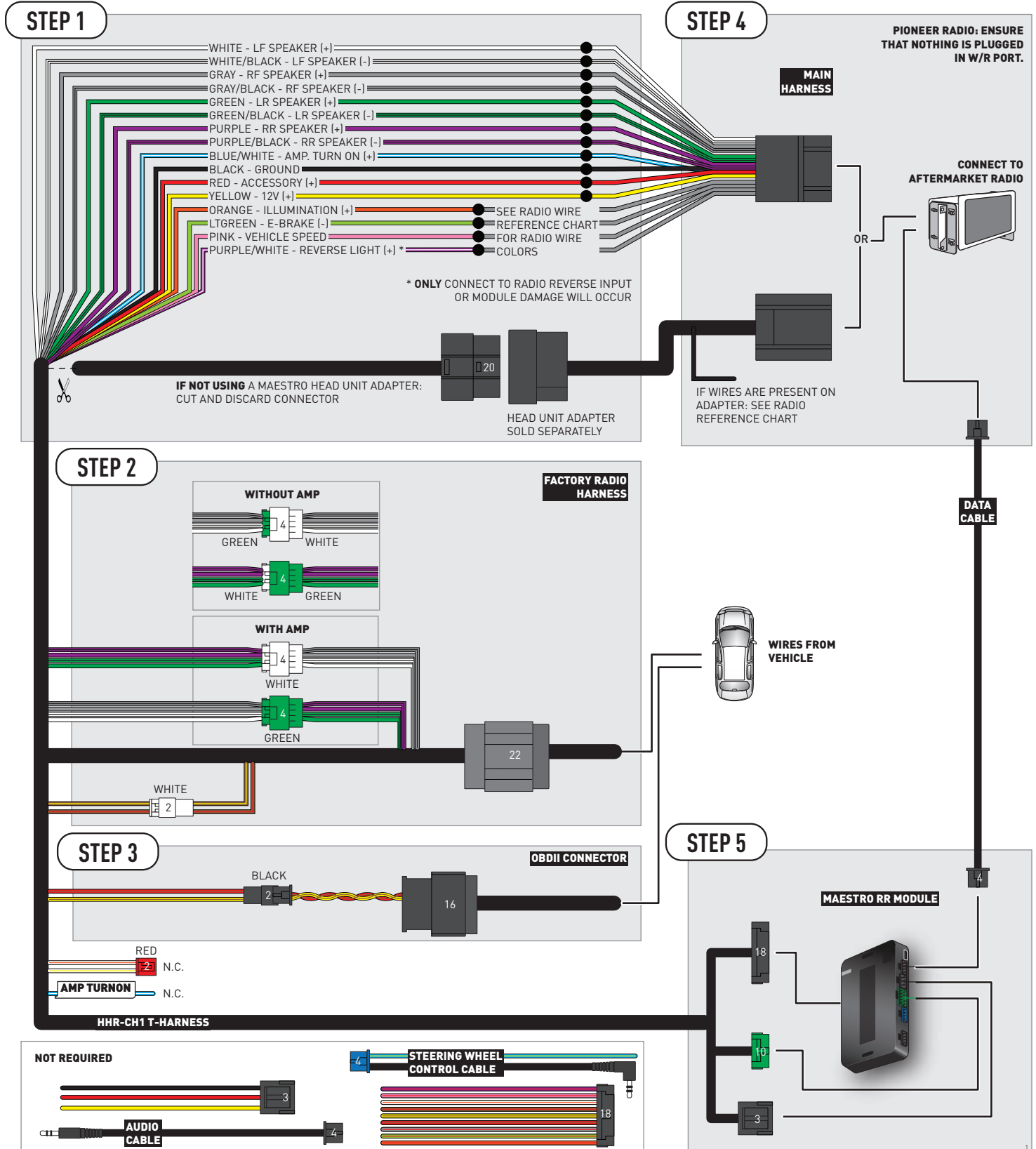
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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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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RETAINS STEERING WHEEL CONTROLS, AND MORE!



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iDatalink Maestro HRR-CH1 Installation Harness

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#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES

**K40**<sup>™</sup>  
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Troubleshooting Table	7

# NEED HELP?

 1 866 427-2999

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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.

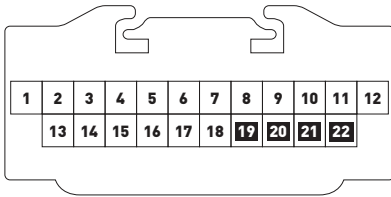


Fig. 2.1

**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.

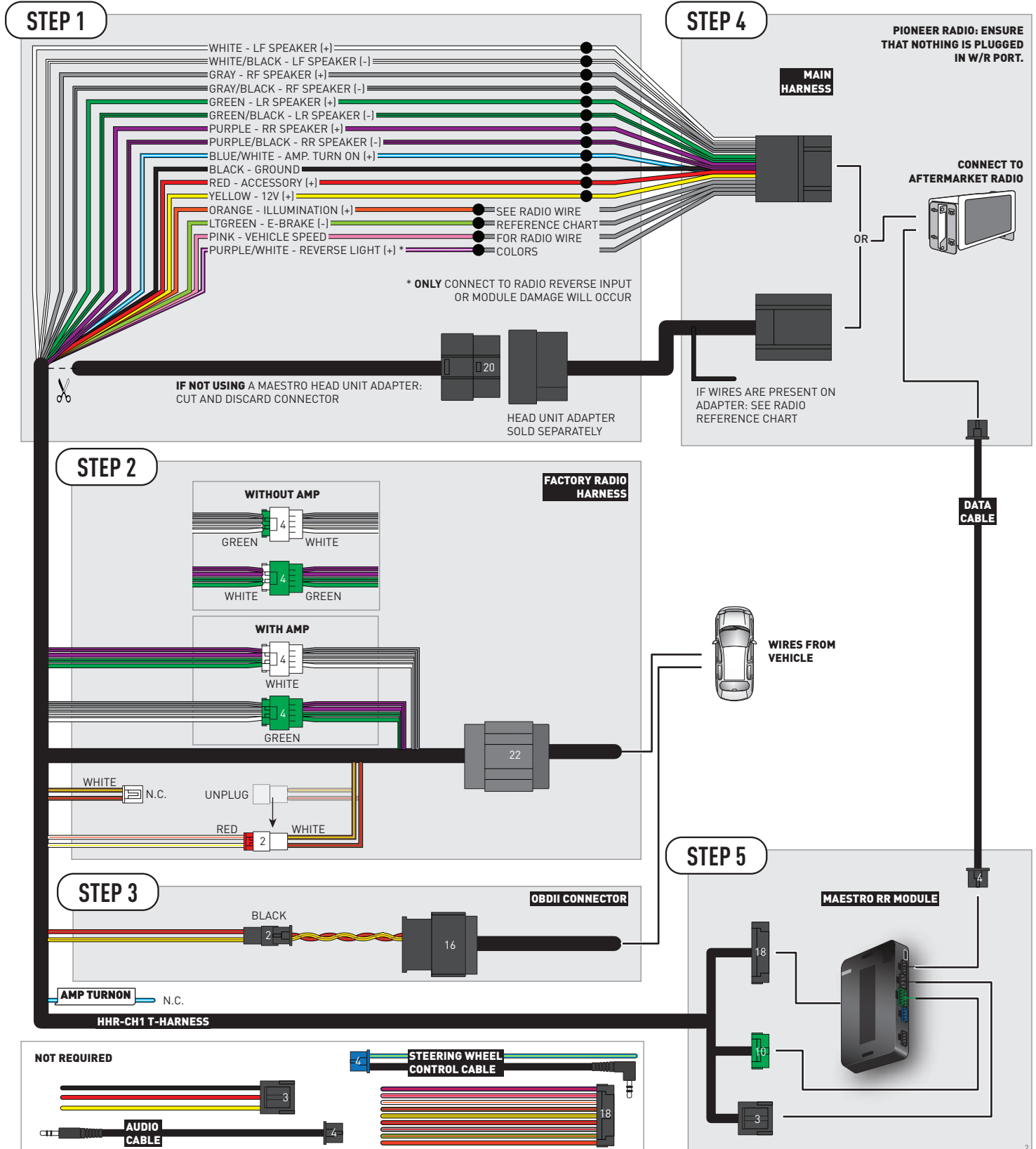
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

## STEP 5

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



# WIRING DIAGRAM



# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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<a href="#">WEBLINK</a>		Software to program module.

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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## 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.

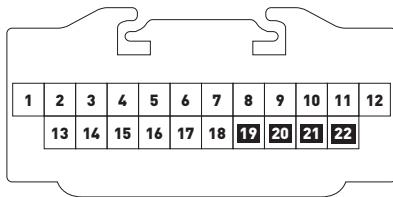


Fig. 2.1

**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.
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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.

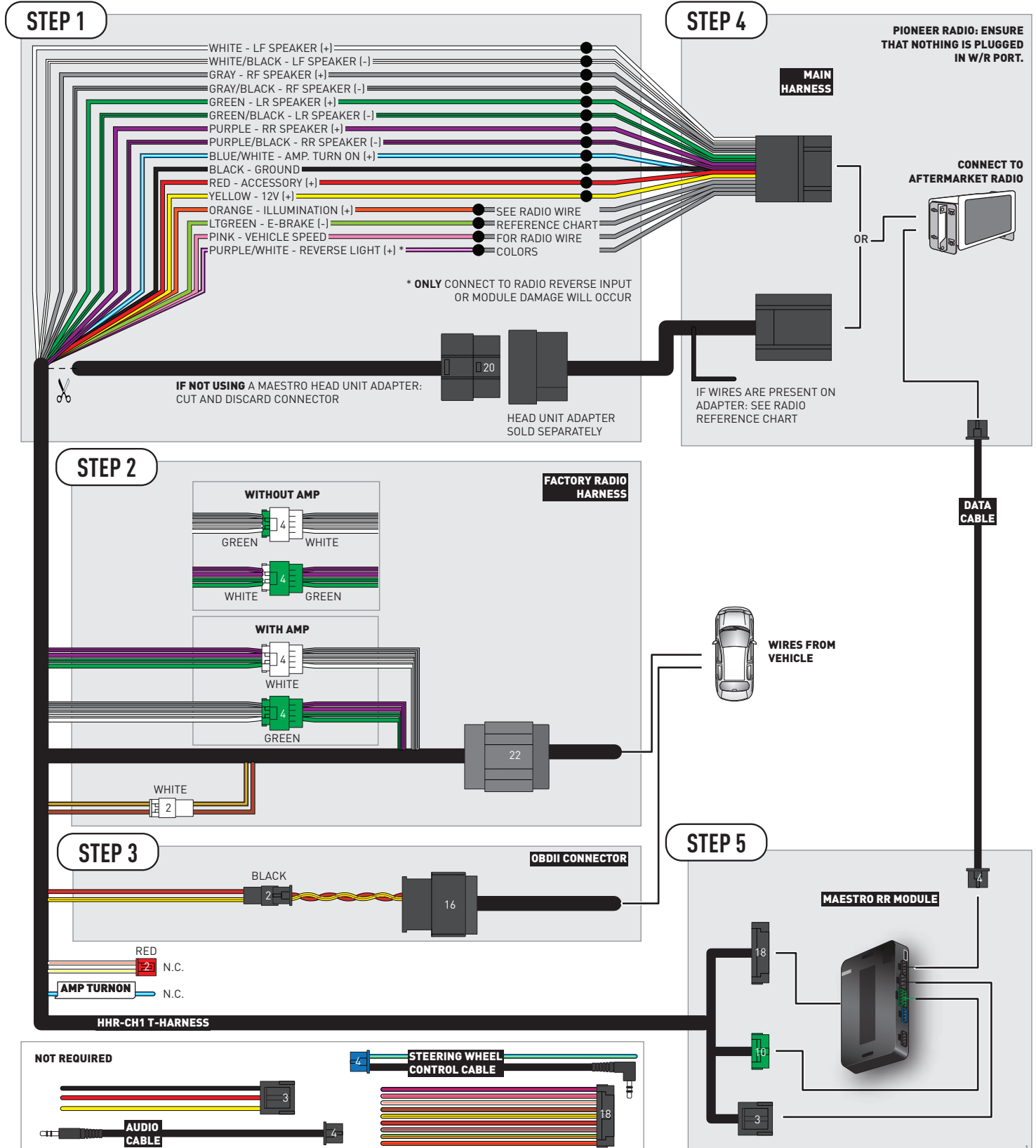
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

# 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/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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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
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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

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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, <b>when a steering wheel button is pressed</b> : normal operation.
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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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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).

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Turn the key to the OFF position, then disconnect all connectors from the module.

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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.

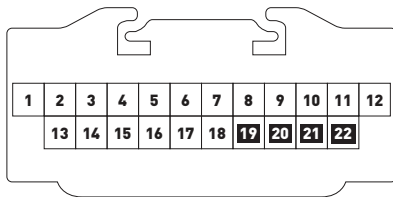


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- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

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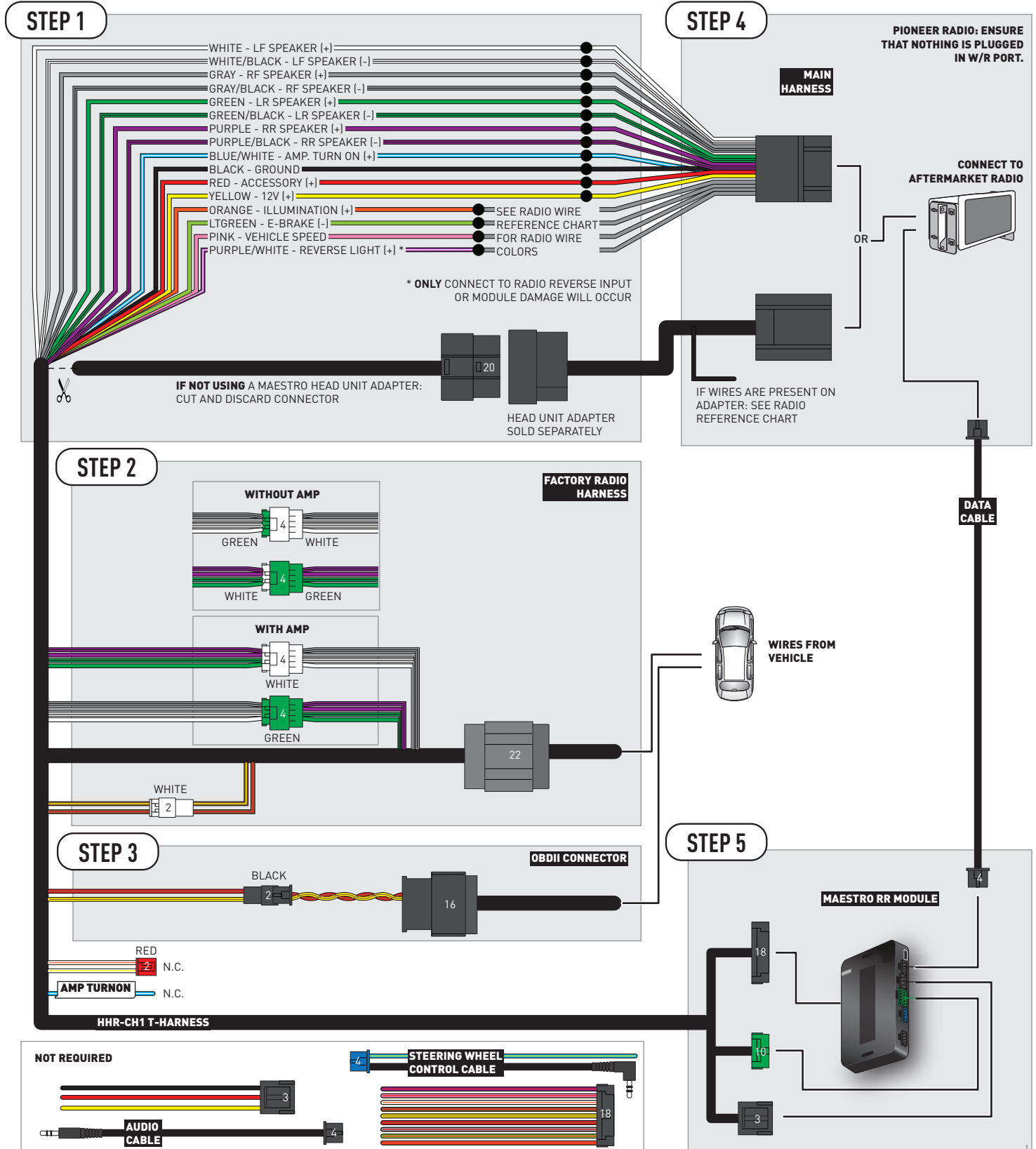
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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## STEP 5

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

# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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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The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
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RETAINS STEERING WHEEL CONTROLS, AND MORE!



#### PRODUCTS REQUIRED

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iDataLink Maestro HRR-CH1 Installation Harness

#### PROGRAMMED FIRMWARE

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#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES

**K40**<sup>™</sup>  
ELECTRONICS  
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Troubleshooting Table	7

# NEED HELP?

 1 866 427-2999

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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.

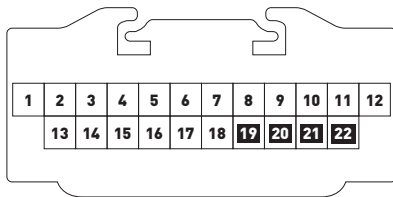


Fig. 2.1

**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.

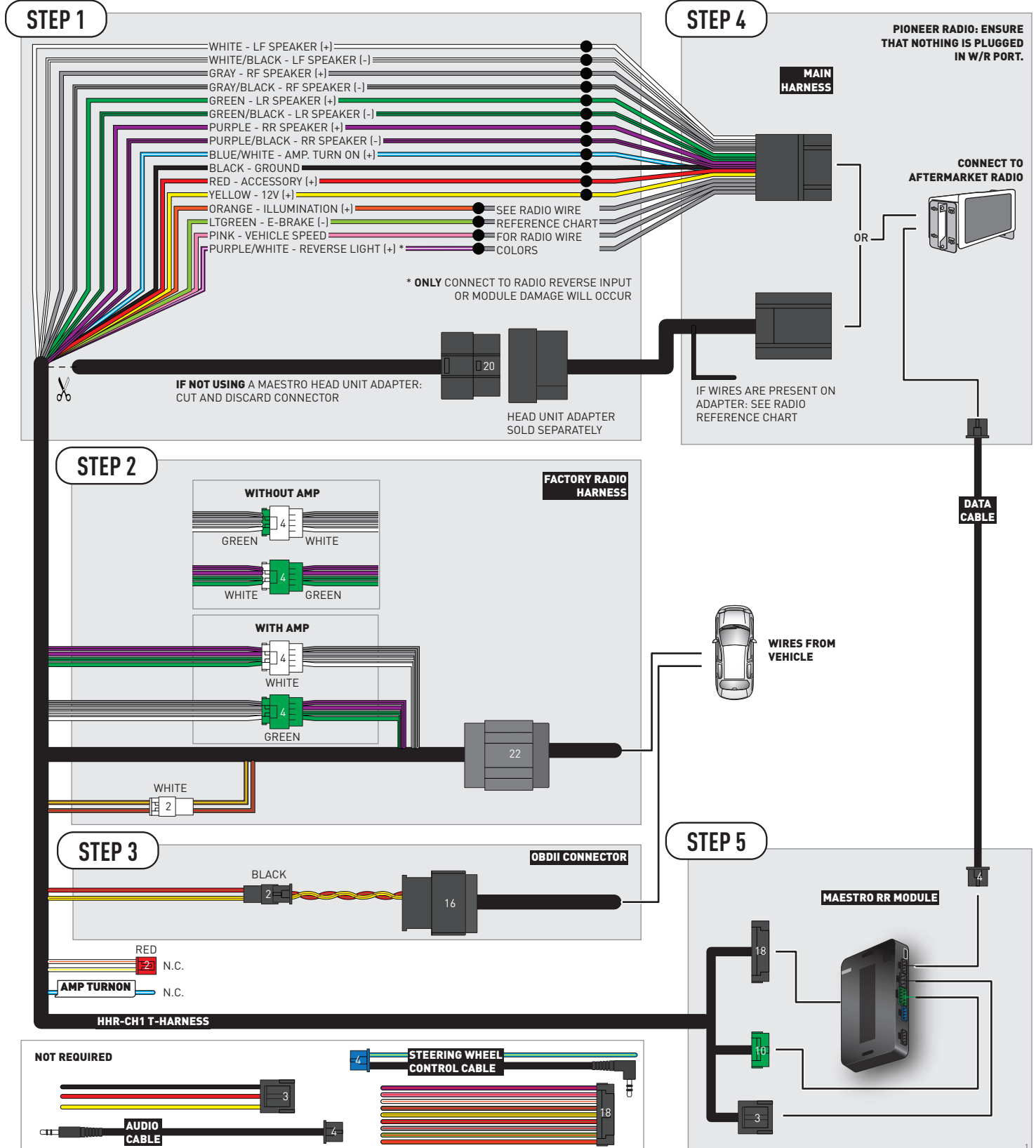
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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# 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.

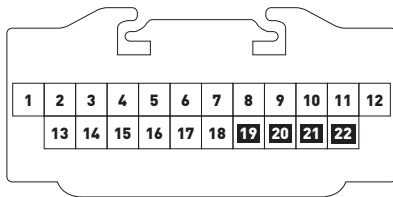


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## STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
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**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

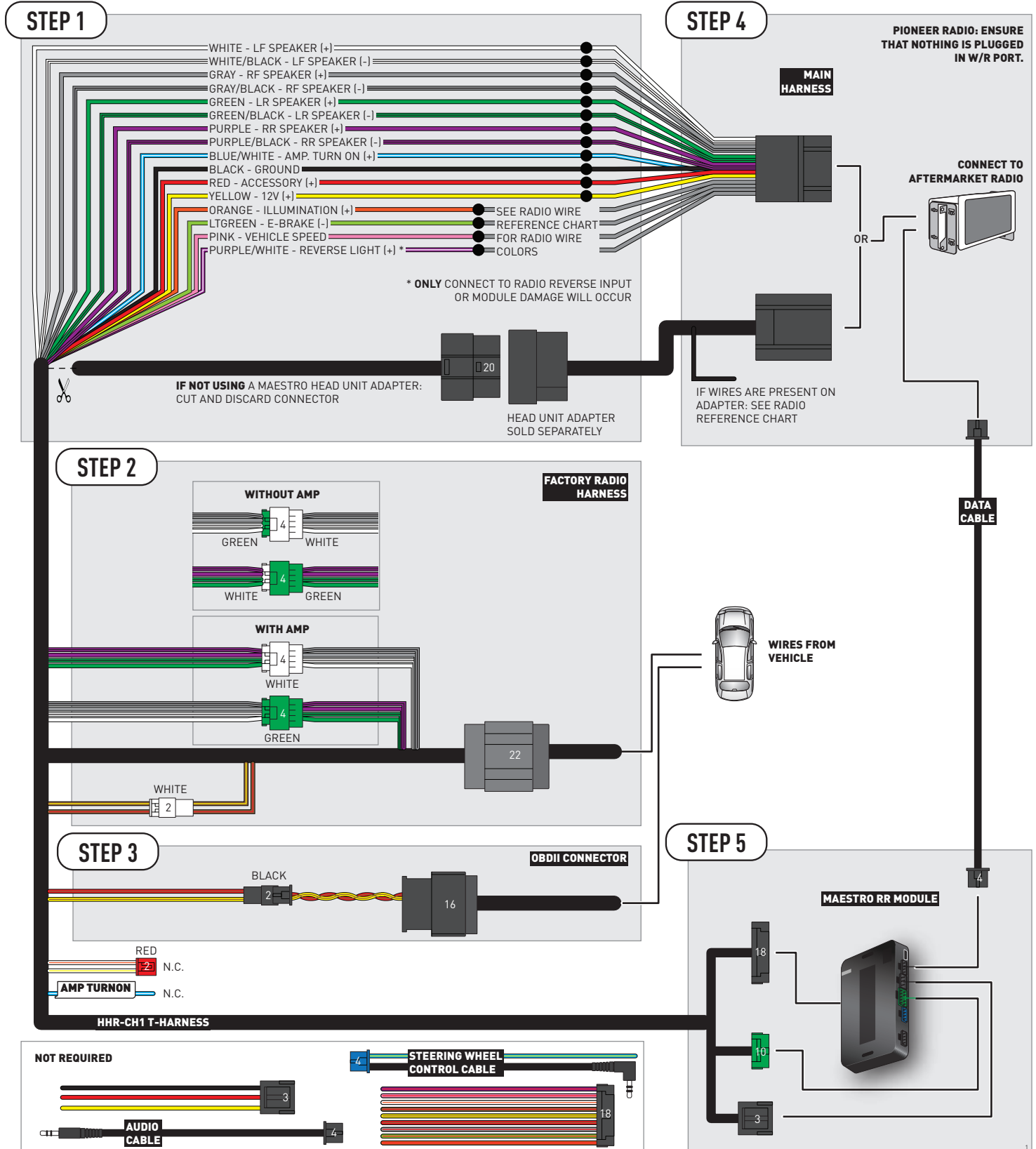
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

## 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/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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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
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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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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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# 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.

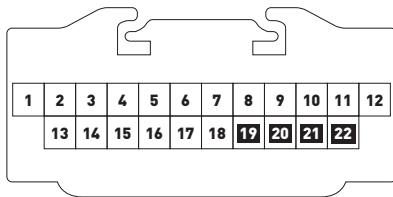


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- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

## STEP 3

- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
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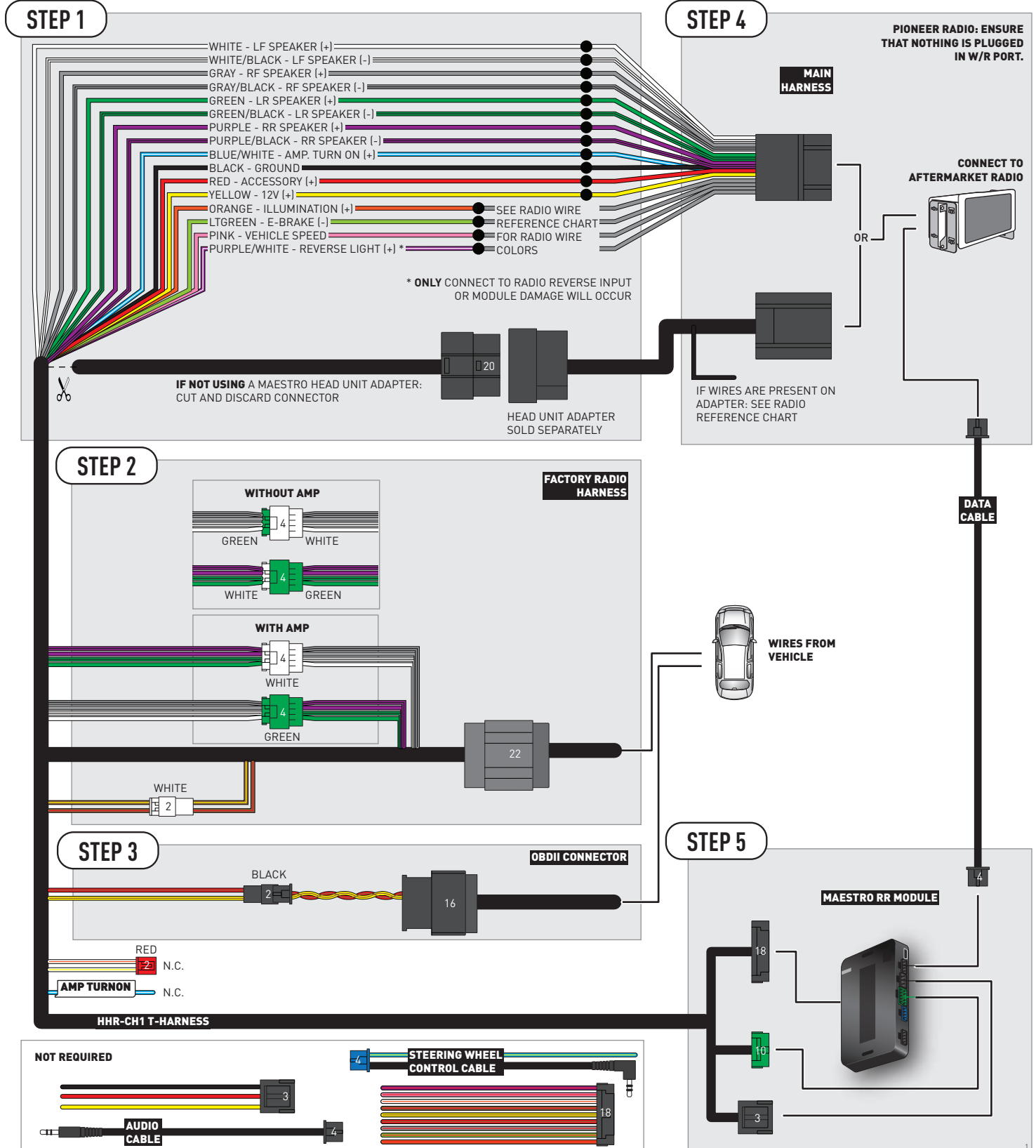
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# WIRING DIAGRAM



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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.**

RETAINS STEERING WHEEL CONTROLS, AND MORE!



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iDataLink Maestro HRR-CH1 Installation Harness

#### PROGRAMMED FIRMWARE

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#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES

**K40**<sup>™</sup>  
ELECTRONICS  
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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.

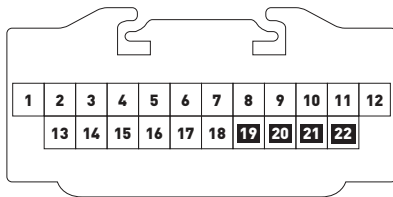


Fig. 2.1

**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.

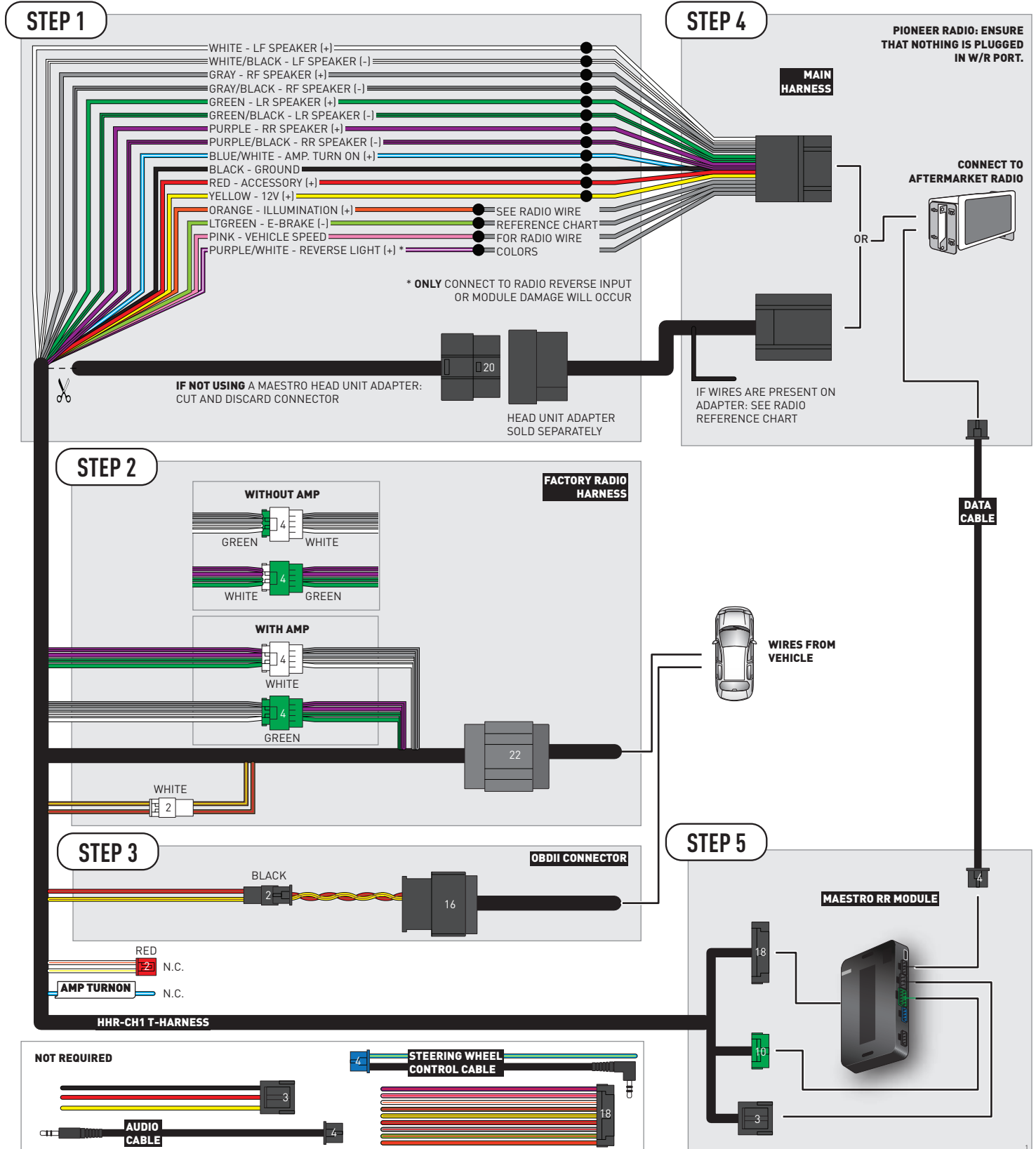
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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# 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.

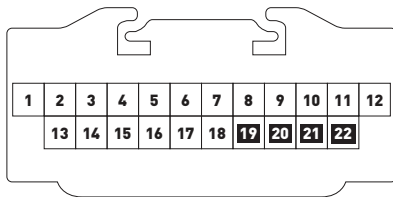


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- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
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**If you have wires in PIN 19, 20, 21 and 22, you don't have a factory amplifier:**

- 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 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.

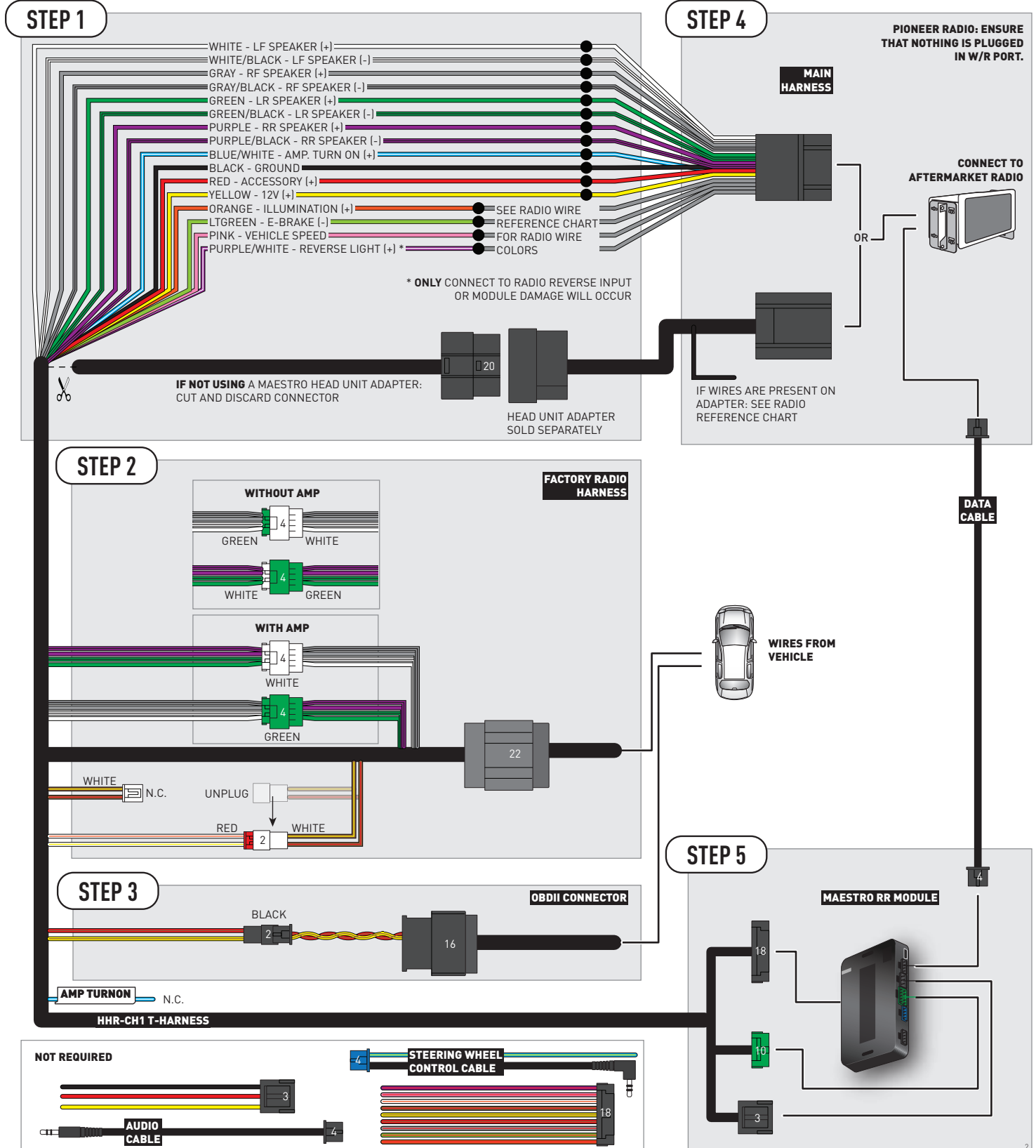
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
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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
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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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
		2 RED flashes	Problem detected. Consult troubleshooting table.
		1 GREEN flash	After radio boots up : Normal operation.
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		OFF	Normal operation (inactive).

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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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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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).

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Turn the key to the OFF position, then disconnect all connectors from the module.

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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.

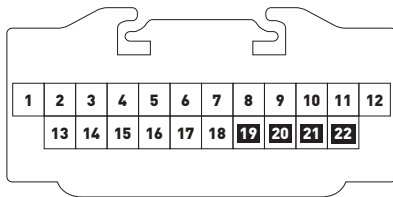


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- Connect HRR-CH1 2-pin red connector to the 2-pin white connector.
- Connect the factory radio harness to the HRR-CH1 T-harness.

## 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.
- 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.

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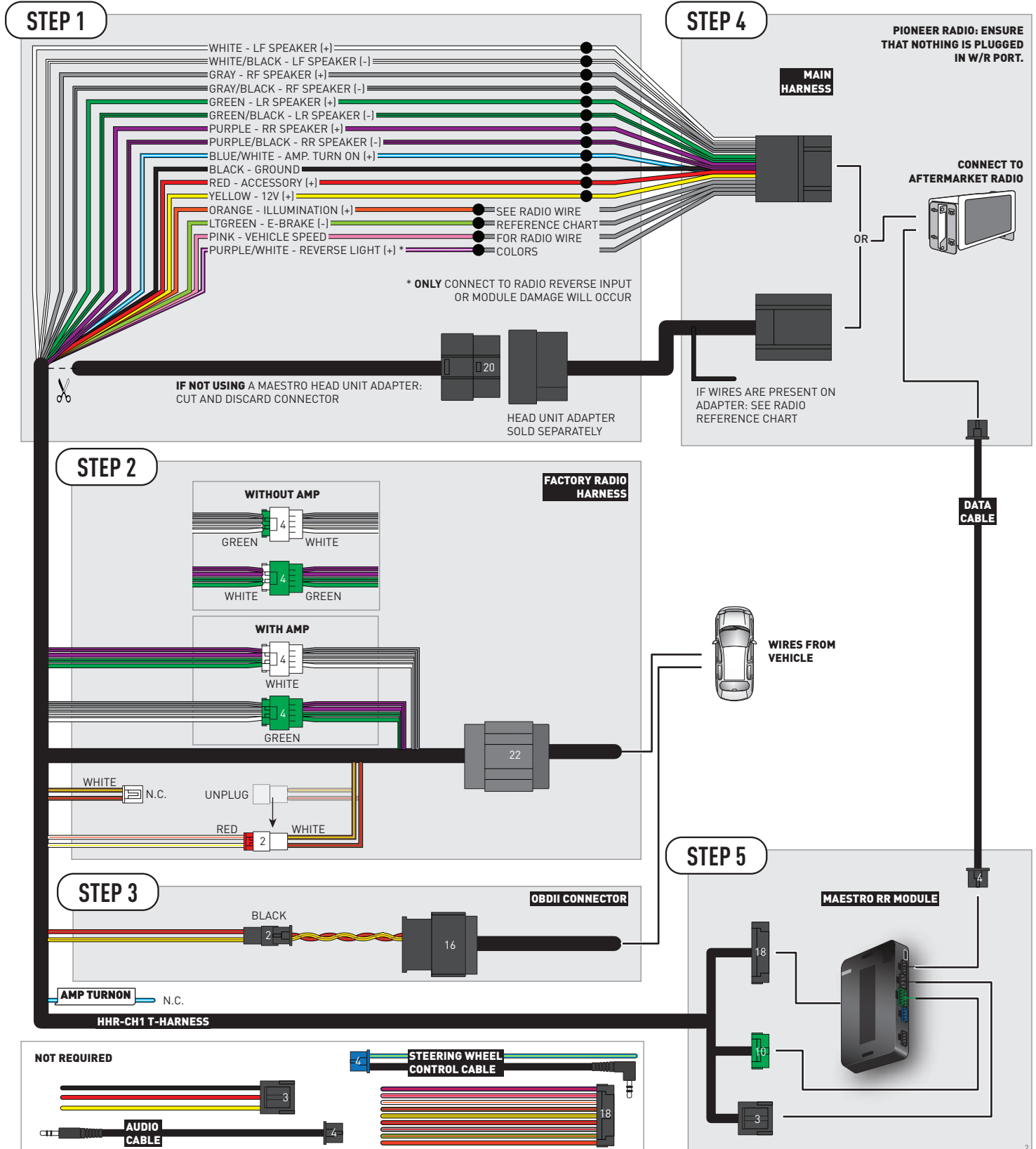
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# WIRING DIAGRAM



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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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**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.**

RETAINS STEERING WHEEL CONTROLS, AND MORE!



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iDataLink Maestro HRR-CH1 Installation Harness

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#### ADDITIONAL RESOURCES

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**K40**<sup>™</sup>  
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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.

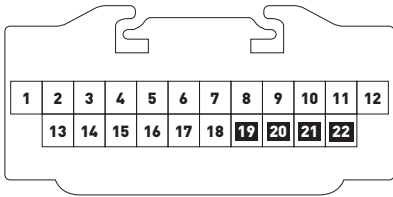


Fig. 2.1

**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.

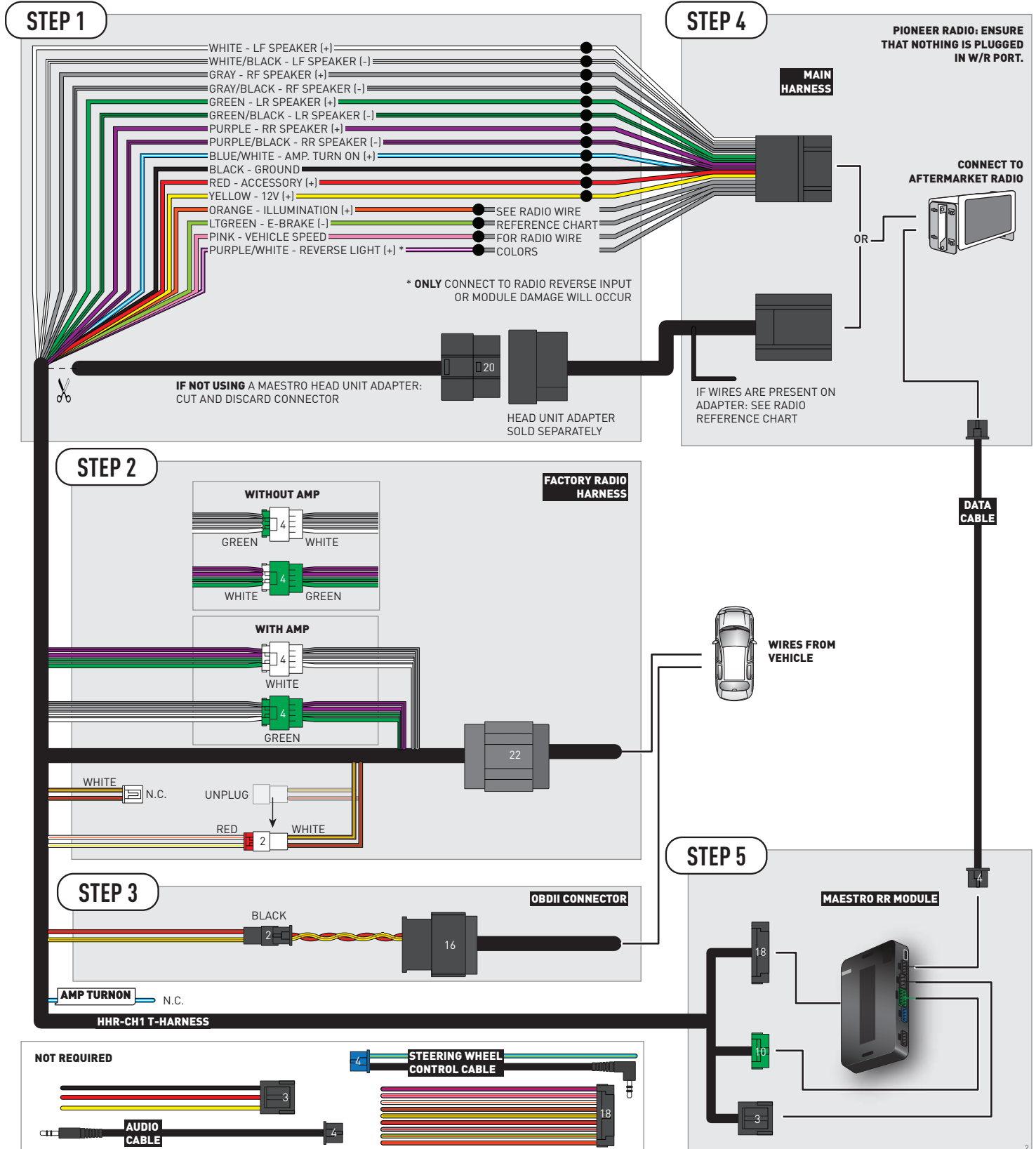
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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





# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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- 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.

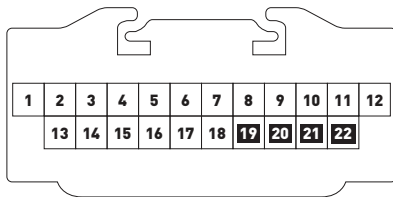


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- Plug the female 4-pin GREEN connector to the male WHITE connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.
- Connect together the 2-pin white connectors of your HRR-CH1 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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**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

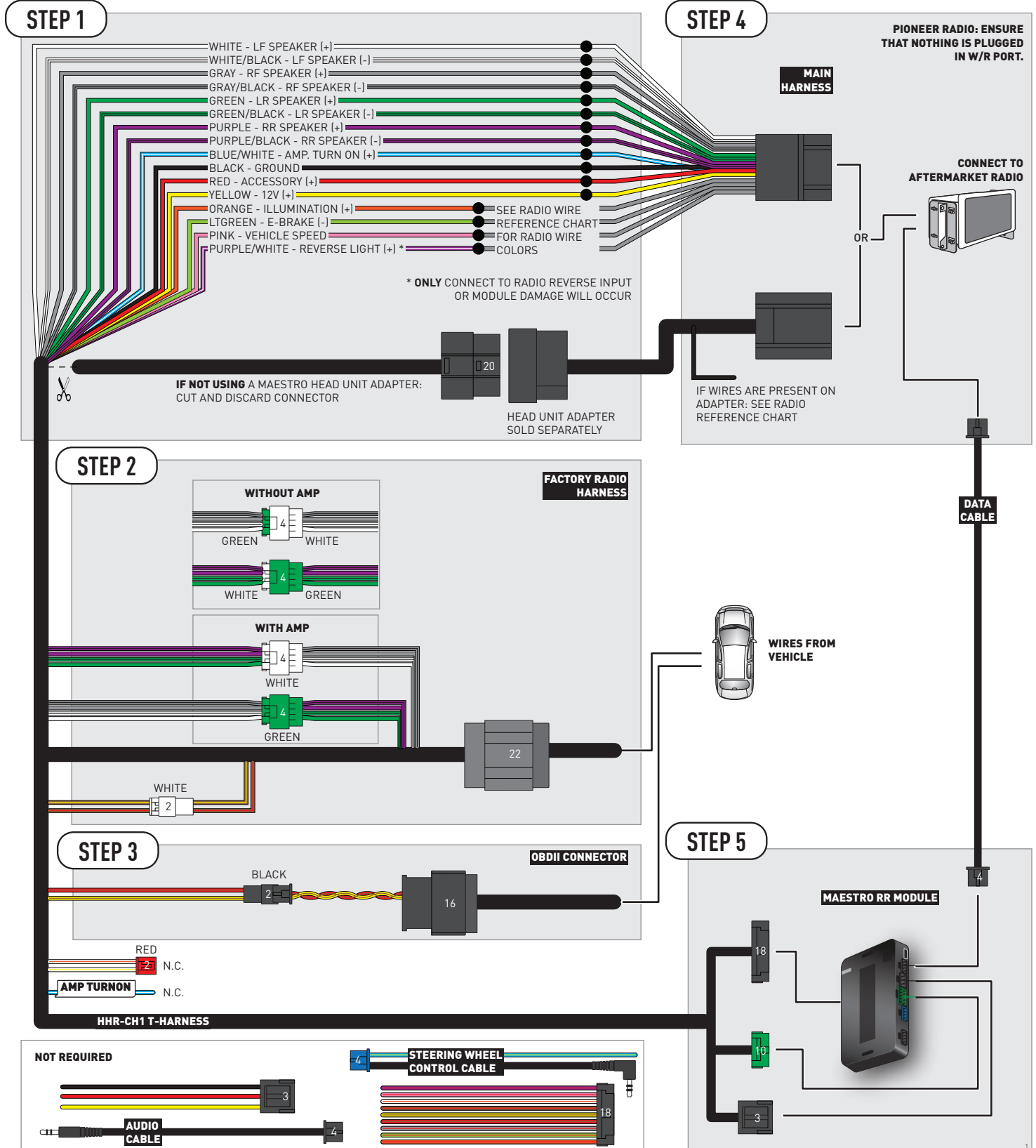
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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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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- 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.

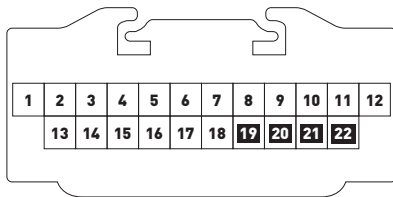


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- Connect the factory radio harness to the HRR-CH1 T-harness.

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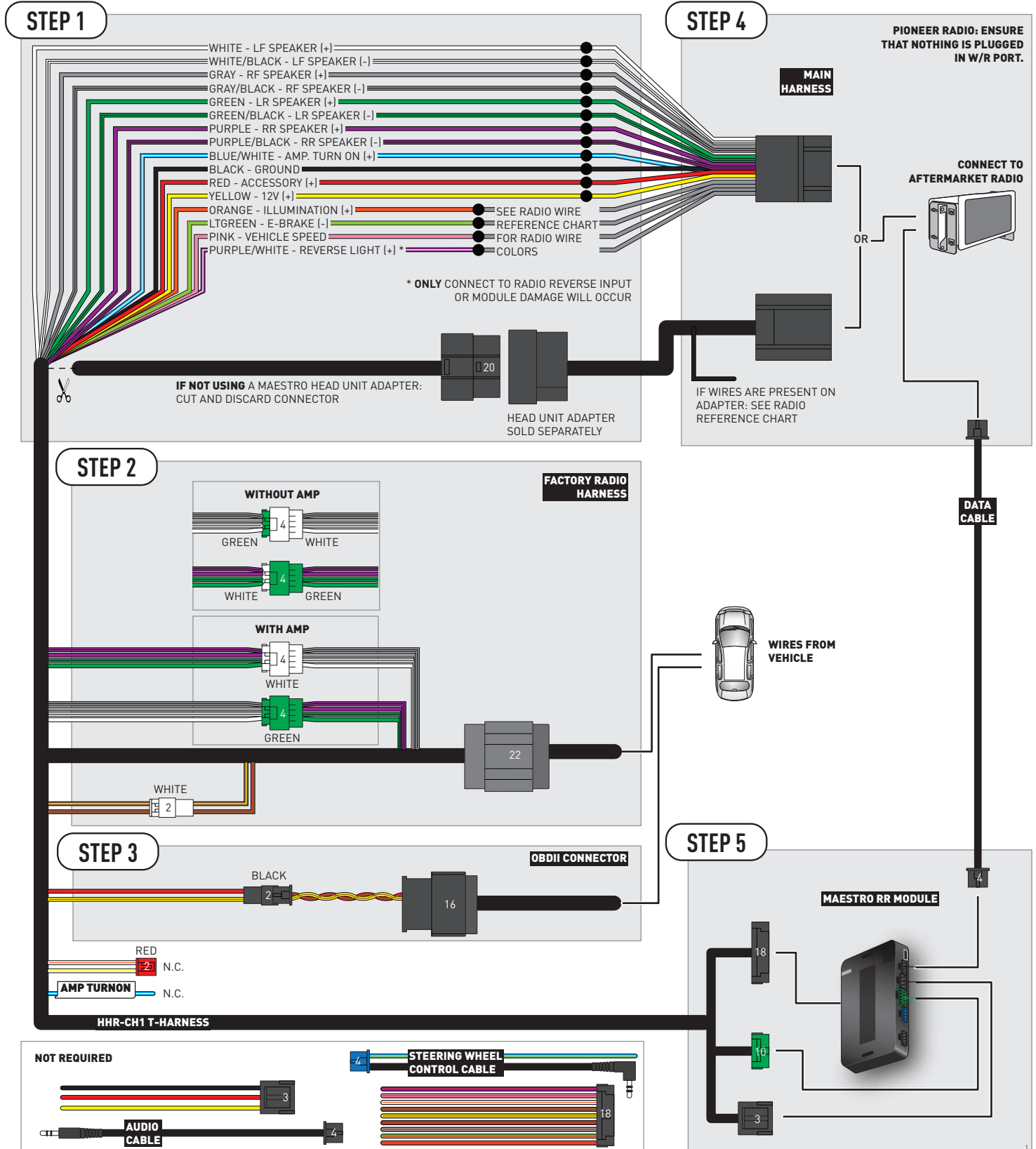
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**IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.**

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**<sup>™</sup>  
ELECTRONICS  
**ESCORT**

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Installation Instructions	3
Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

# NEED HELP?

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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.

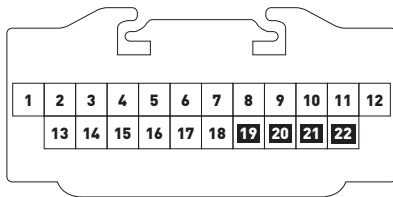


Fig. 2.1

**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.

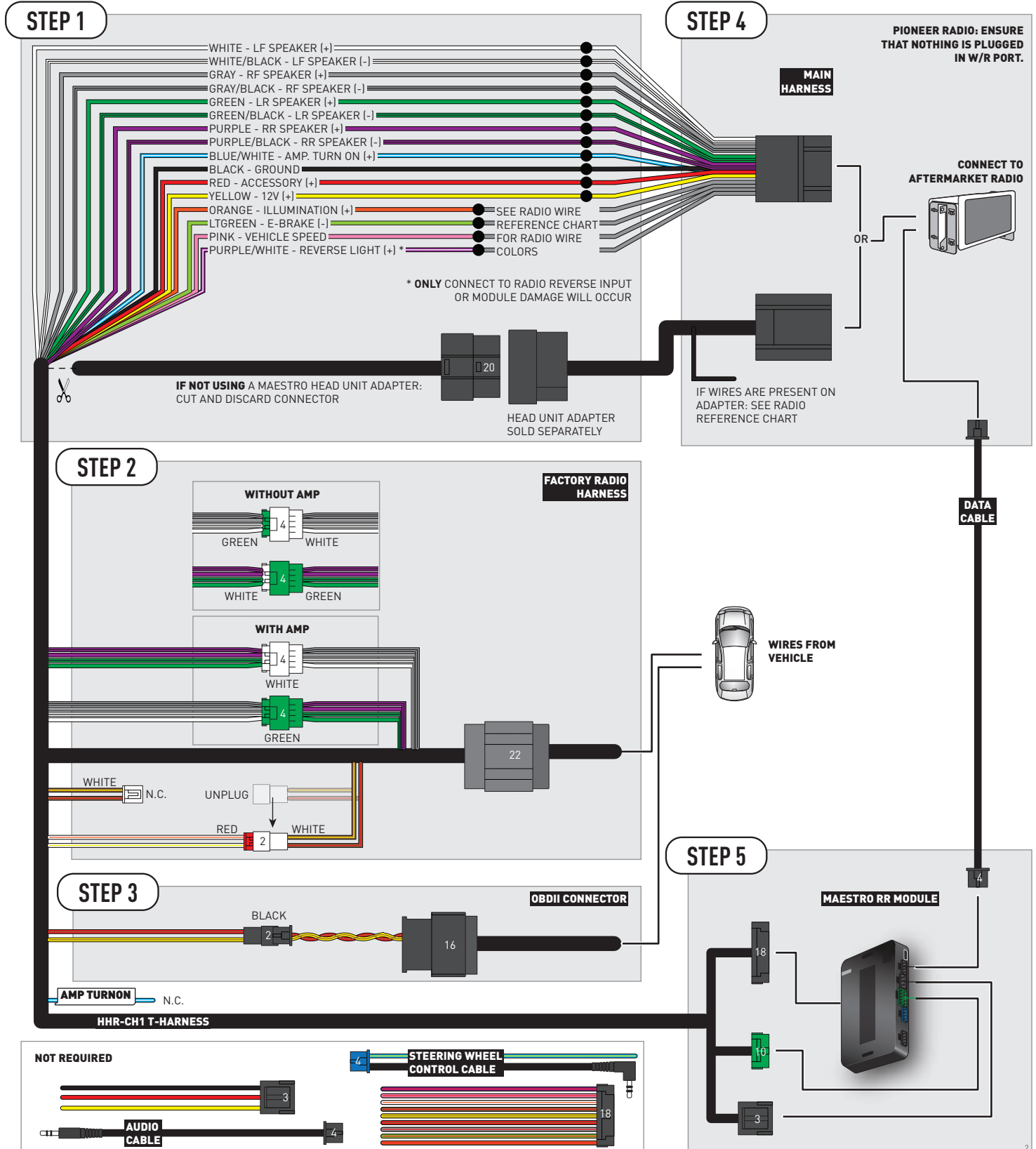
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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



# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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## 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.

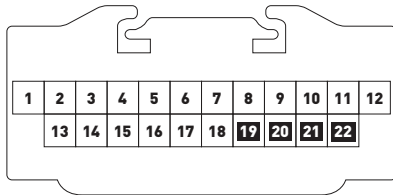


Fig. 2.1

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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.

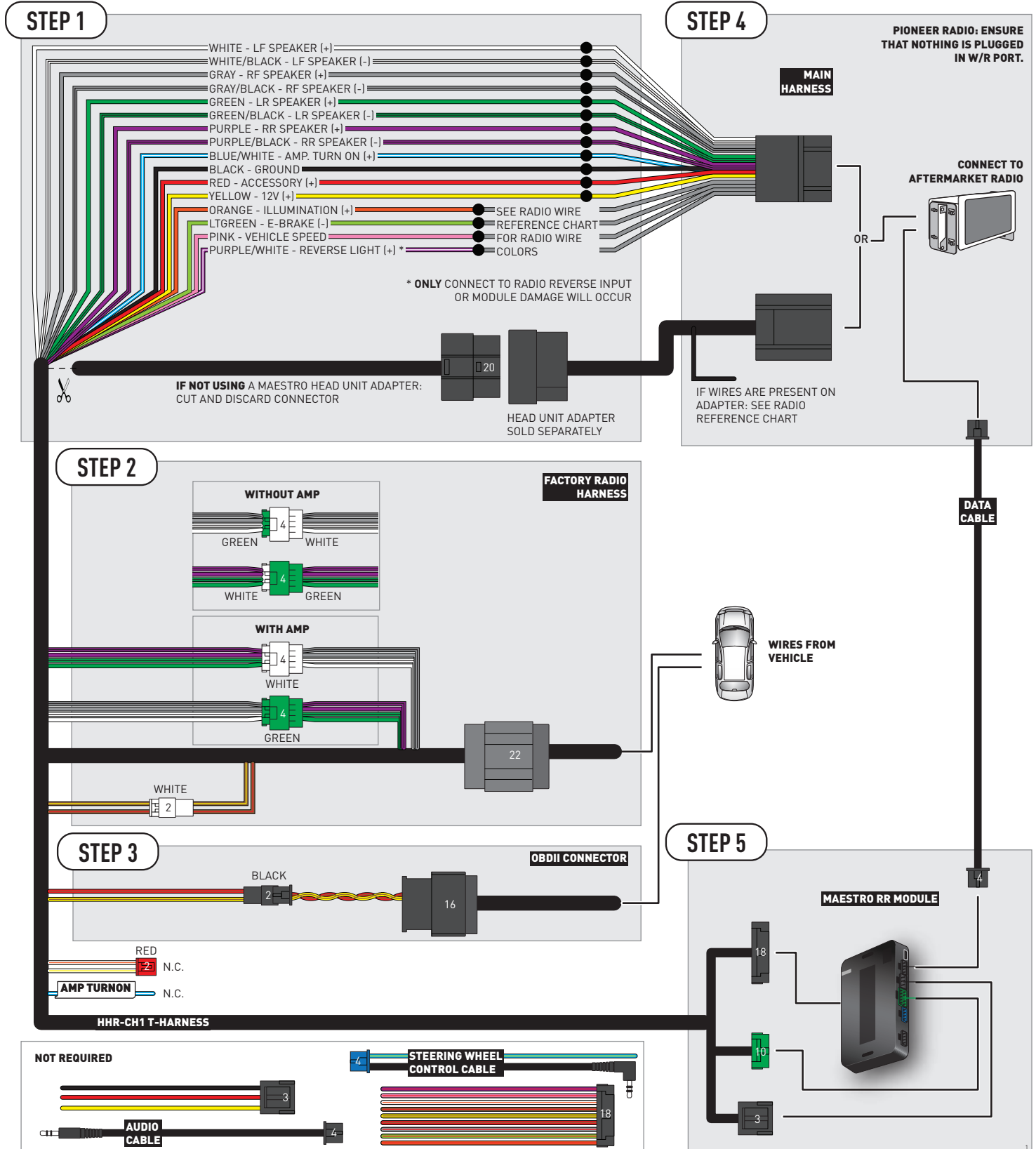
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

# 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/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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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
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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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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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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.

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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.

## STEP 2

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

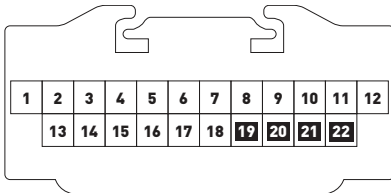


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- Plug the female 4-pin WHITE connector to the male GREEN connector of your HRR-CH1 T-harness.
- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

## 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.

## 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.

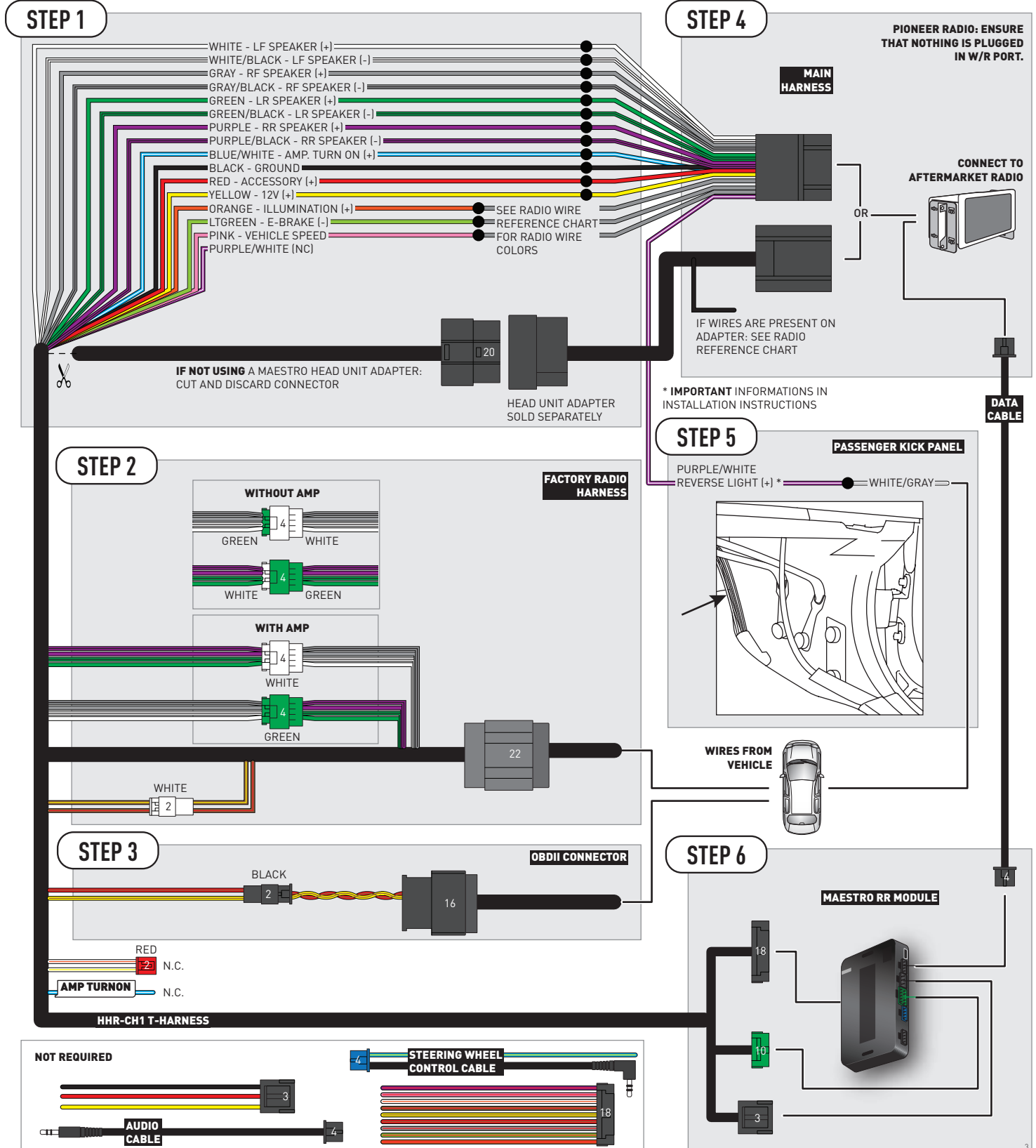
Refer to radio wire chart for radio's reverse light wire color.

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



# RADIO WIRE REFERENCE CHART

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PROBLEM	SOLUTION
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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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**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.**

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

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#### OPTIONAL ACCESSORIES

**K40**<sup>™</sup>  
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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.

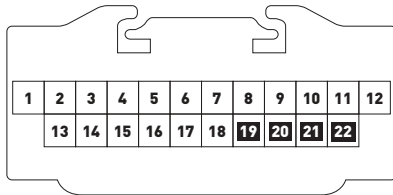


Fig. 2.1

**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.

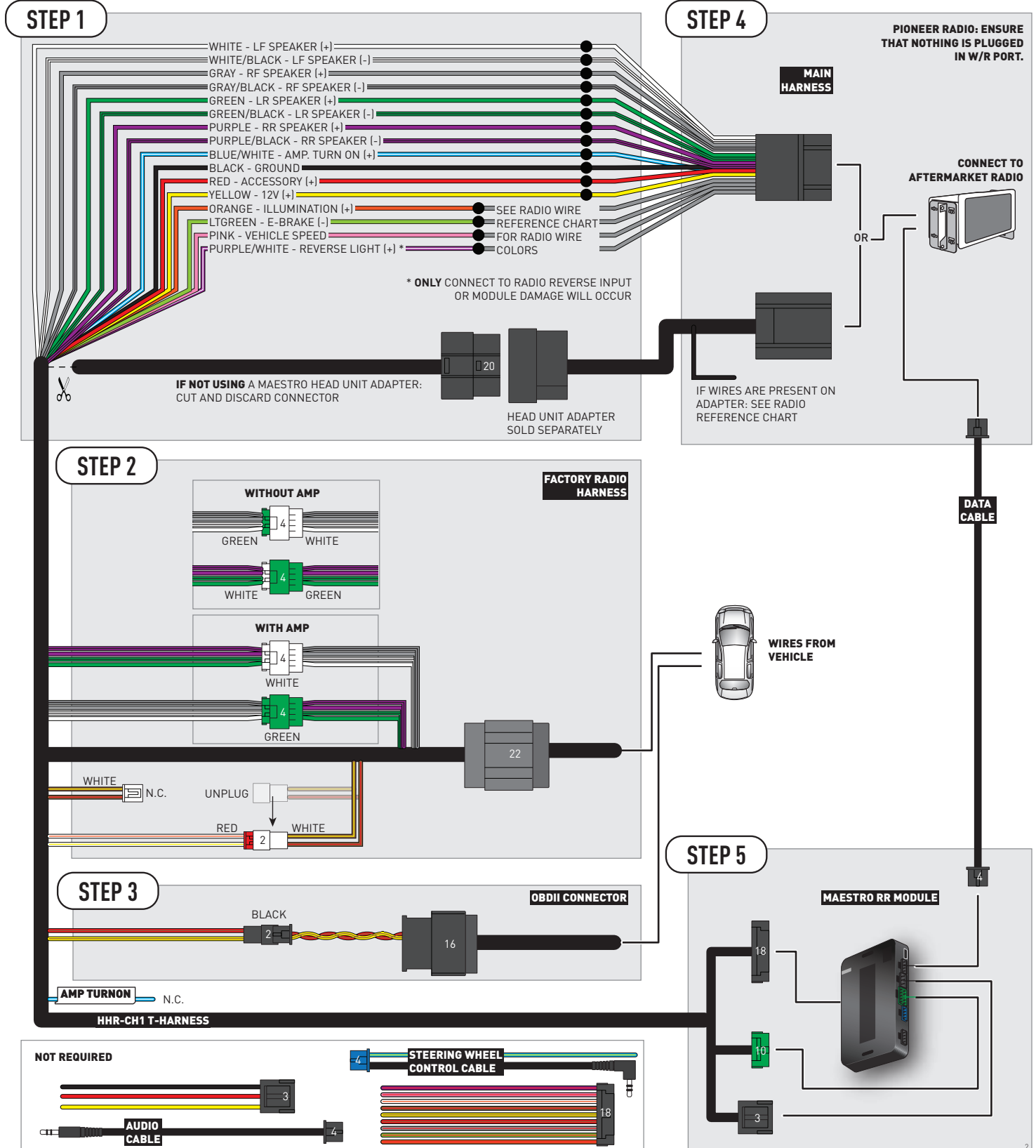
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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



# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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# 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.

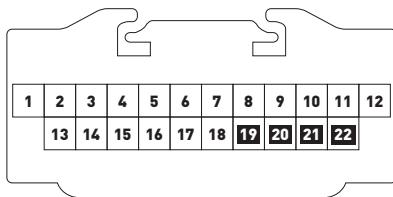


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- Plug the female 4-pin GREEN connector to the male GREEN connector of your HRR-CH1 T-harness.
- Plug the female 4-pin WHITE connector to the male WHITE connector of your HRR-CH1 T-harness.

**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.

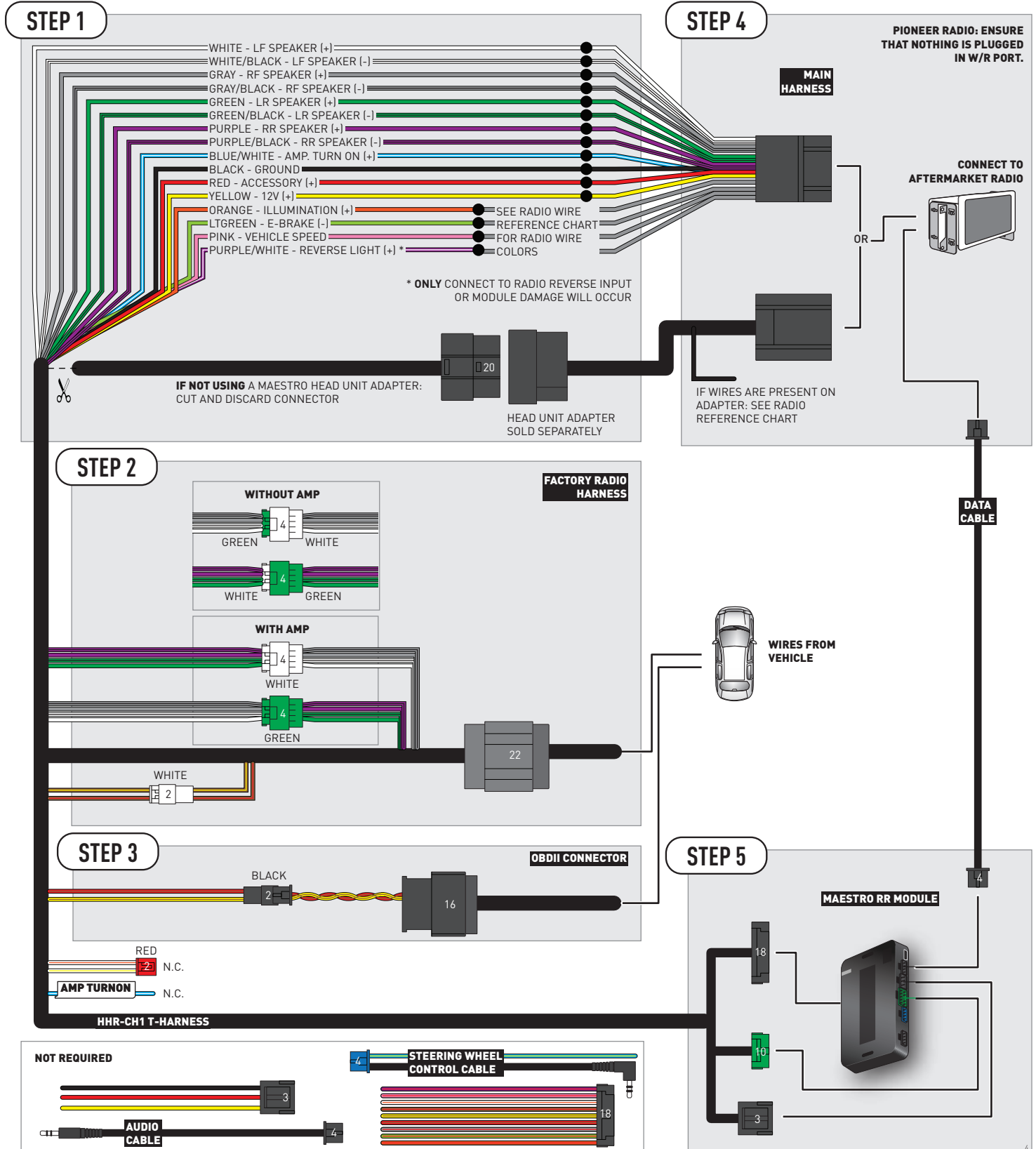
If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

## STEP 5

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



# WIRING DIAGRAM



# 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/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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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
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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
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PROBLEM	SOLUTION
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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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Turn the key to the OFF position, then disconnect all connectors from the module.

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# INSTALLATION INSTRUCTIONS P1/1

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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.

## STEP 2

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

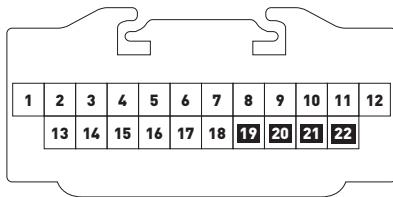


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- Connect together the 2-pin white connectors of your HRR-CH1 T-harness.
- Connect the factory radio harness to the HRR-CH1 T-harness.

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- Connect HRR-CH1 2-pin black connector to black connector of OBDII extension harness.
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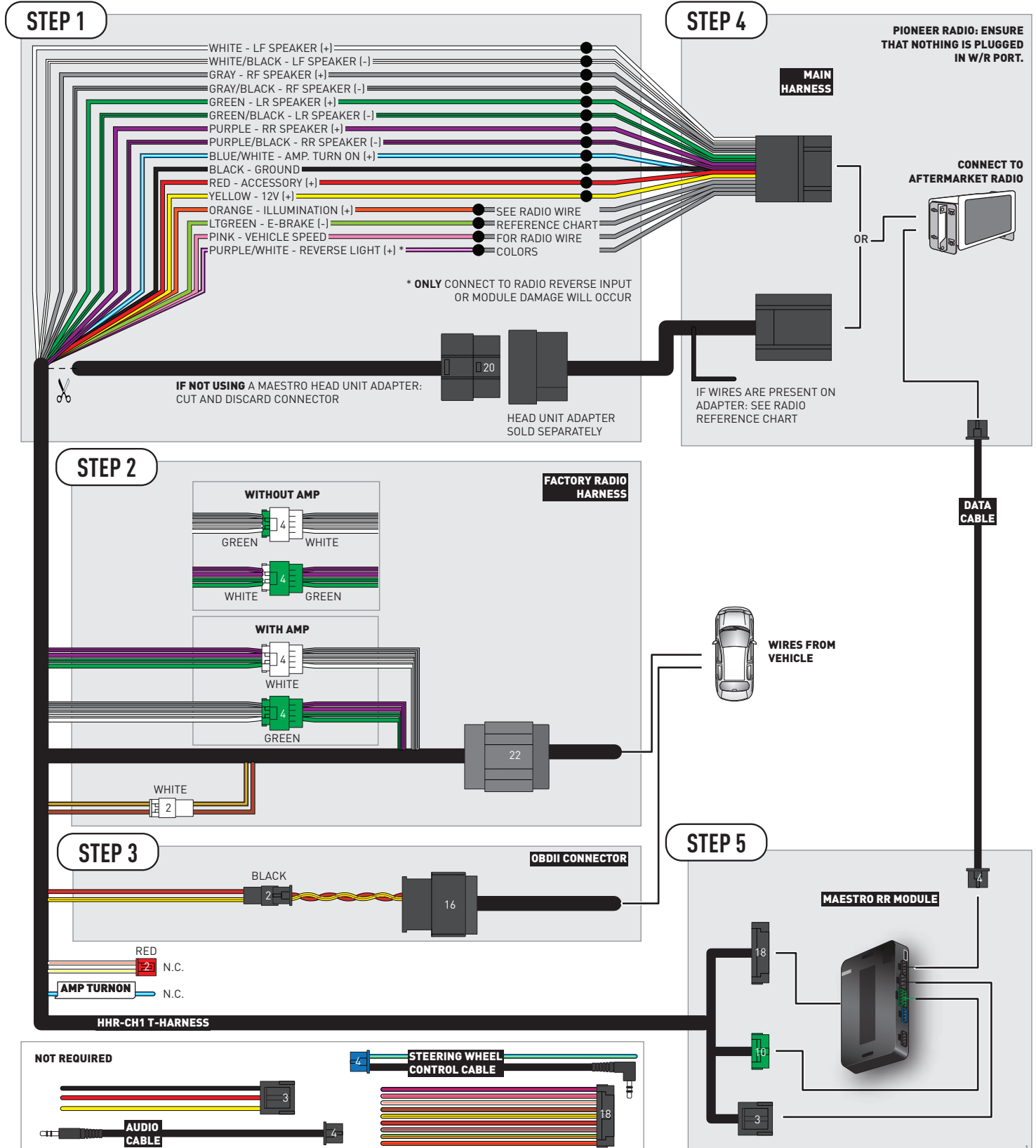
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# WIRING DIAGRAM





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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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**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.**

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**<sup>™</sup>  
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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# NEED HELP?

 1 866 427-2999

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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.

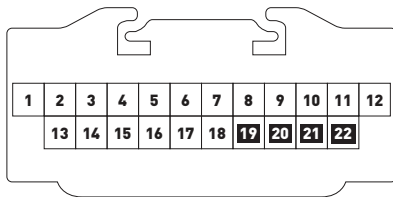


Fig. 2.1

**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.

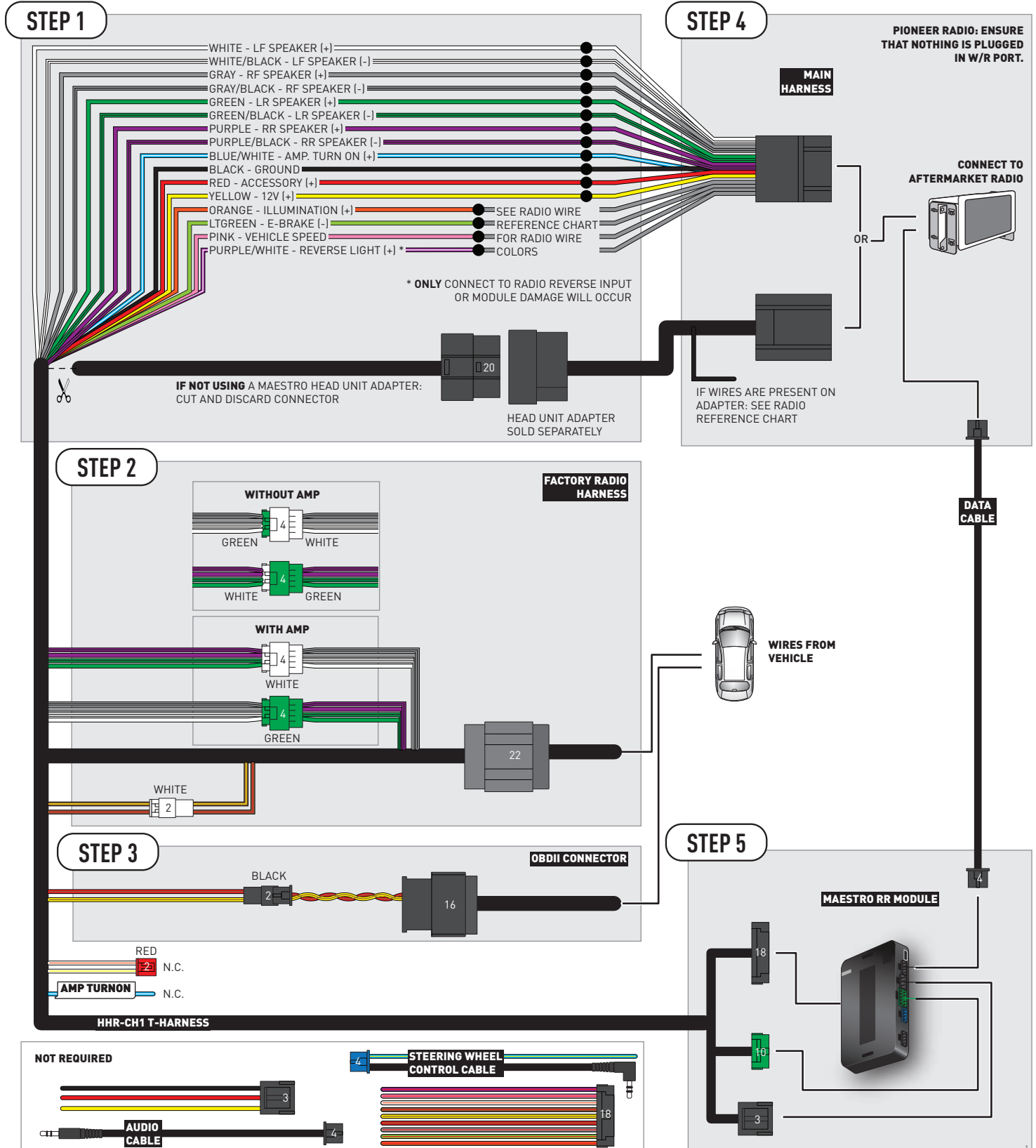
**Note:** Refer to radio wire chart for radio's reverse light wire color.

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.

# 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/ JVC 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, <b>when a steering wheel button is pressed</b> : normal operation.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> 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).

<a href="#">VIDEO HELP</a>		Installation, product information, vehicle specific videos.
<a href="#">VERIFY FLASH</a>		Last flash information, steering control configuration, vehicle information.
<a href="#">WEBLINK</a>		Software to program module.

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.</p> <p>Reset the RR.</p>
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 <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.
The light on the Maestro is blinking <b>RED TWICE</b> and the radio <b>IS</b> turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking <b>RED TWICE</b> but the radio is <b>NOT</b> turning on.	<p>If installing a modular 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 as well.</p> <p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p>
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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