



## 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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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**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
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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

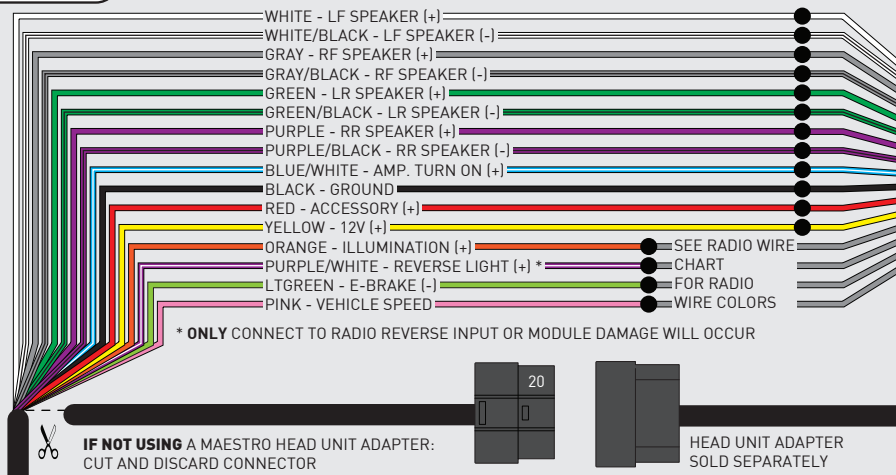
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

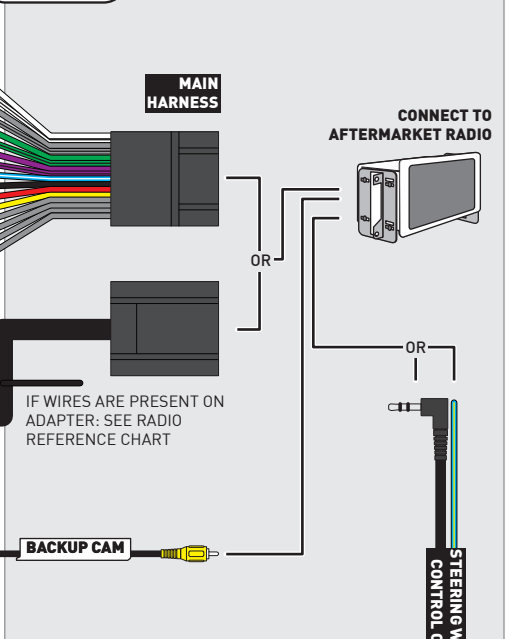
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

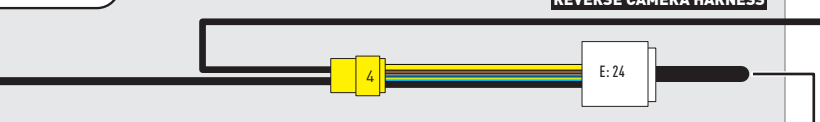
## STEP 1



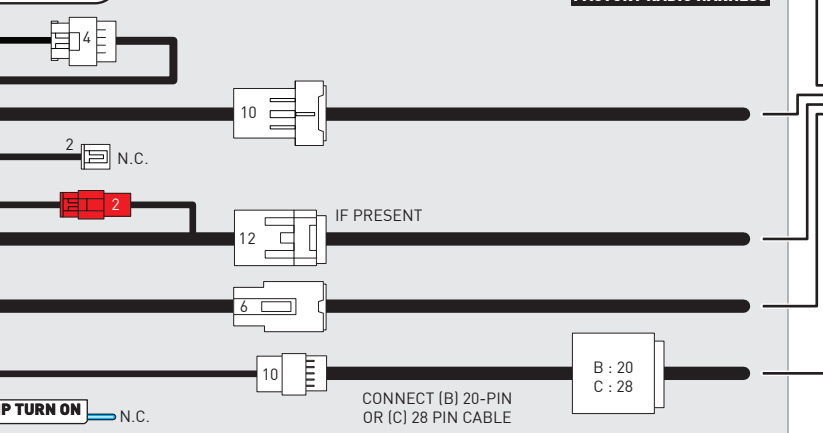
## STEP 5



## STEP 2



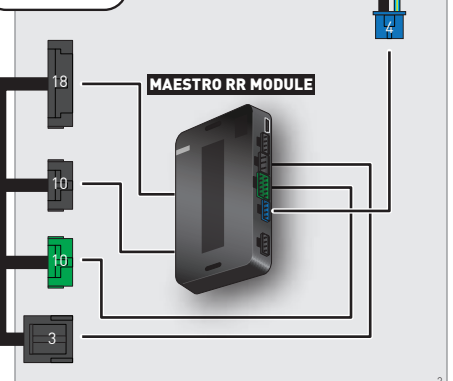
## STEP 3



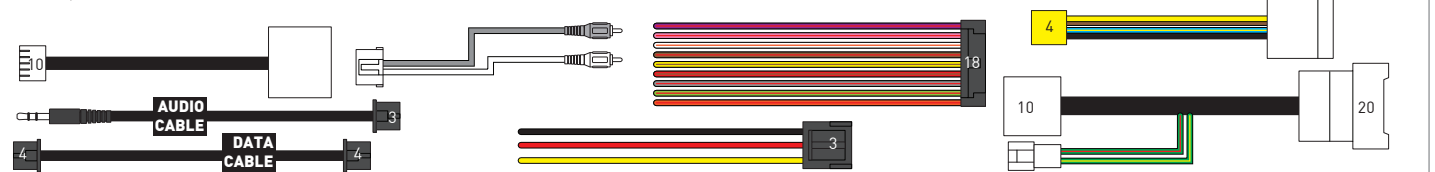
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio




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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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="#">VERIFY FLASH</a>		Last flash information, steering control configuration, vehicle information.
<a href="#">WEBLINK</a>		Software to program module.

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

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- Cut and remove the black 20 pin connector from the HRR-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

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



# RADIO WIRE REFERENCE CHART

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

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

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

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

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# MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
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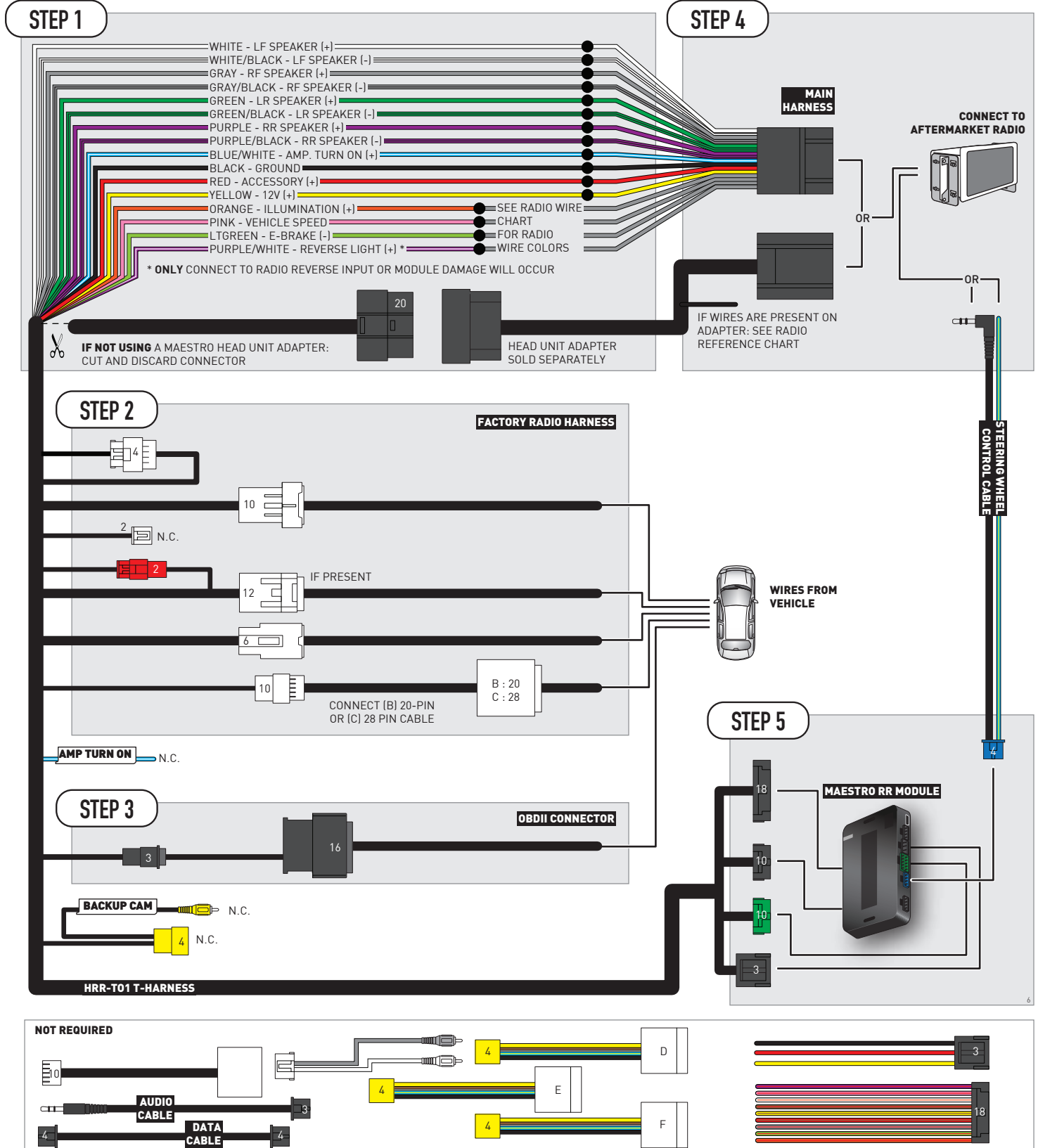
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## STEP 5

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# WIRING DIAGRAM *without an Amplifier*



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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

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Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio

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E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



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iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.**

# NEED HELP?

 1 866 427-2999

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

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Installation Instructions	3
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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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





# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

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ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

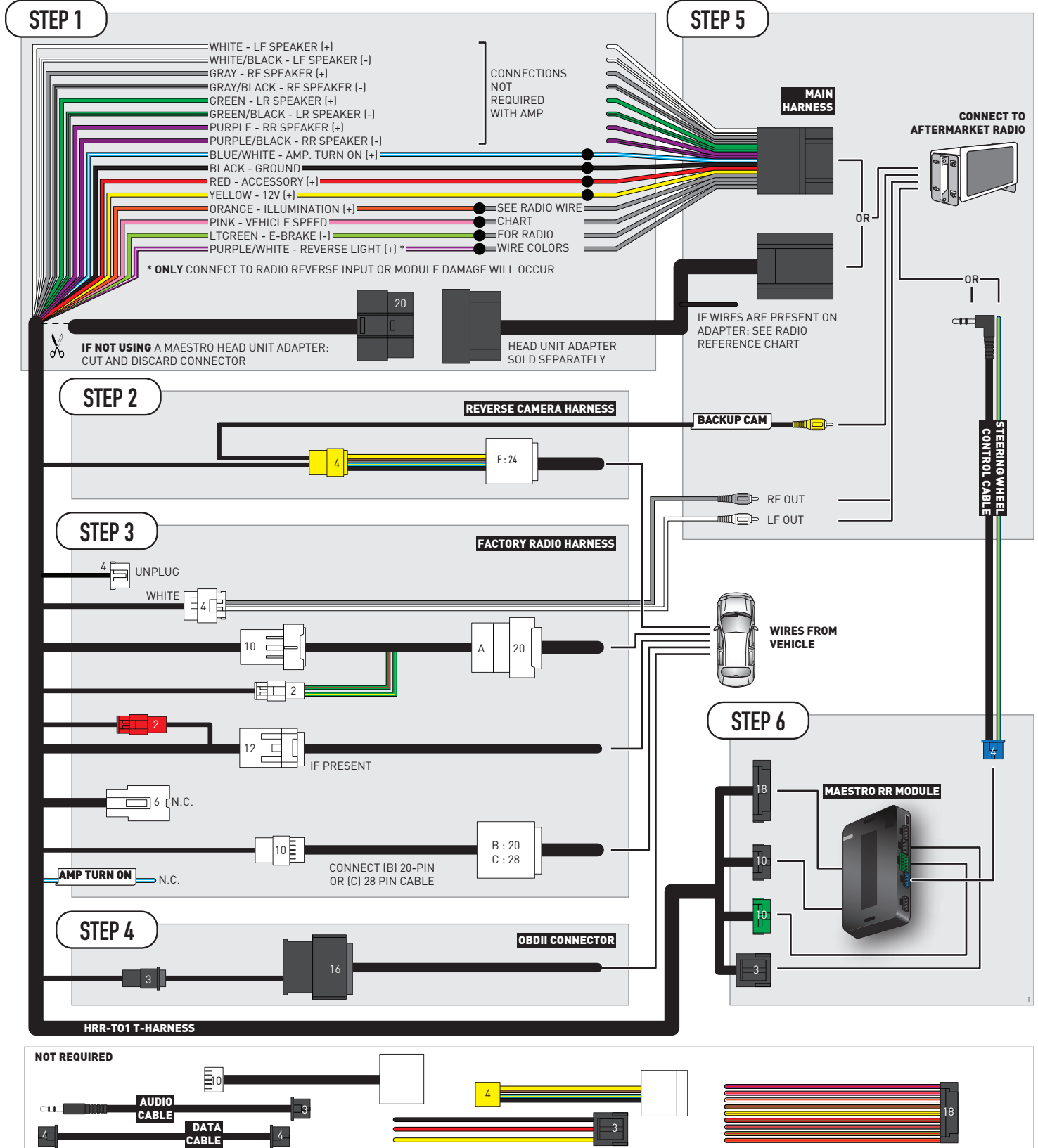
## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*





# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

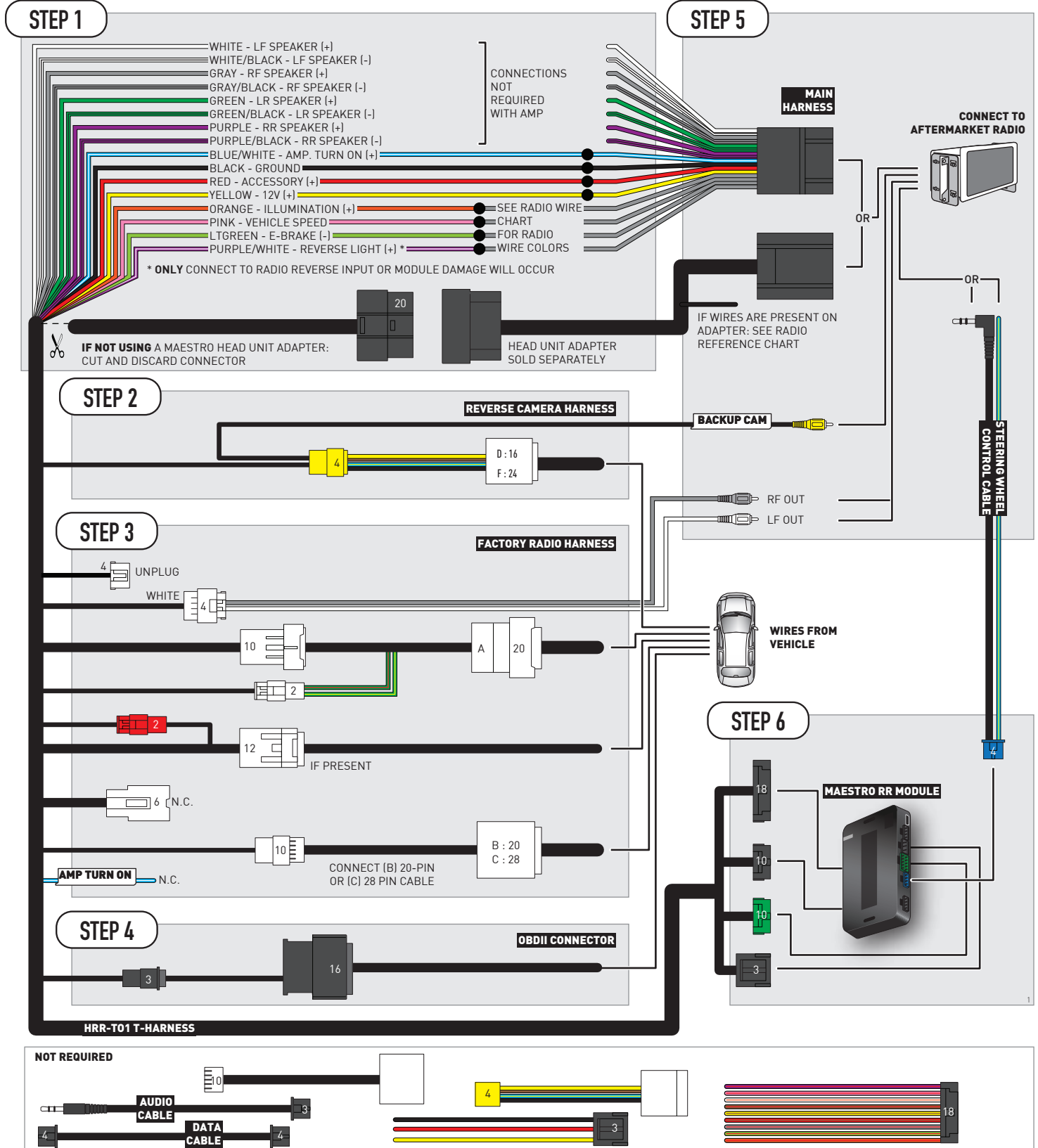
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- Plug the harnesses into the aftermarket radio.
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- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

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

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ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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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	Connect if no iDatalink 4-pin port on radio

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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●	●	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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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

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Module Diagnostics	6
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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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PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

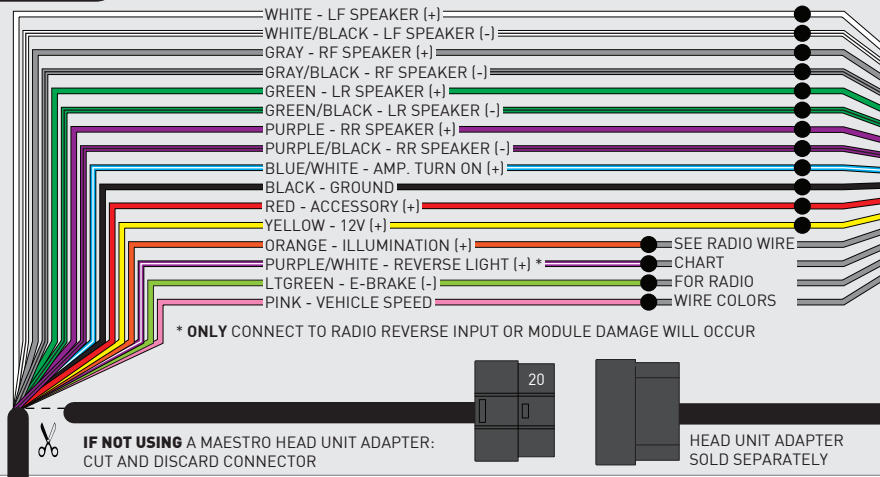
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

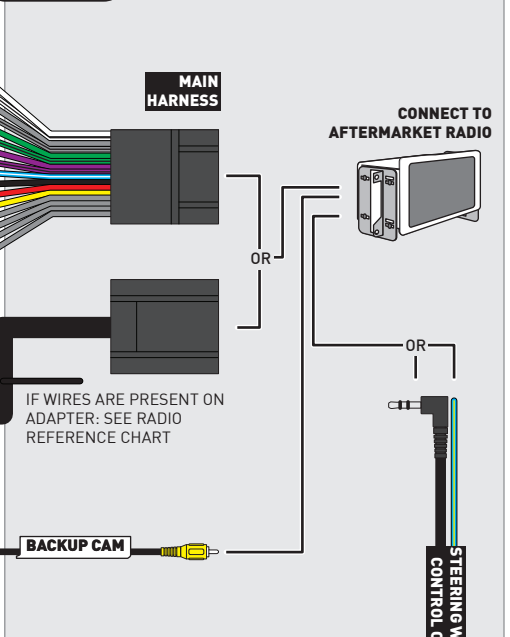
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

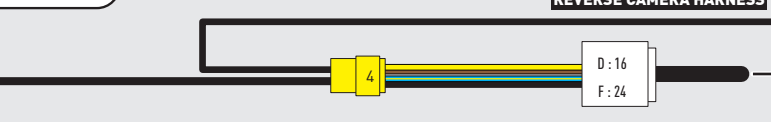
## STEP 1



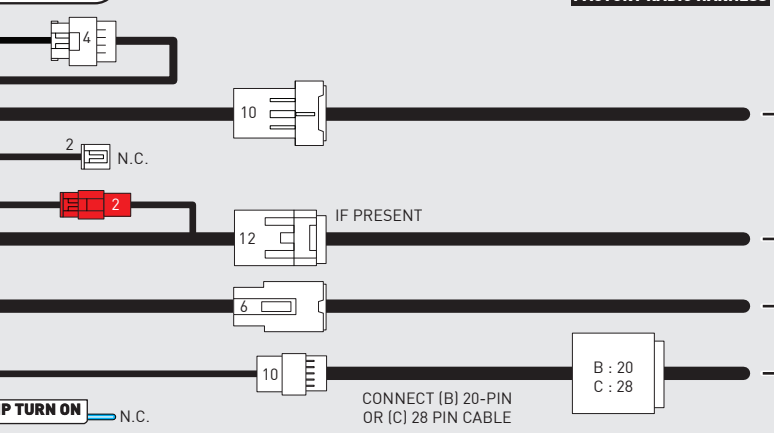
## STEP 5



## STEP 2



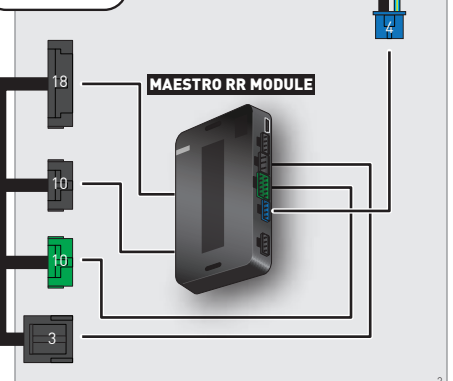
## STEP 3



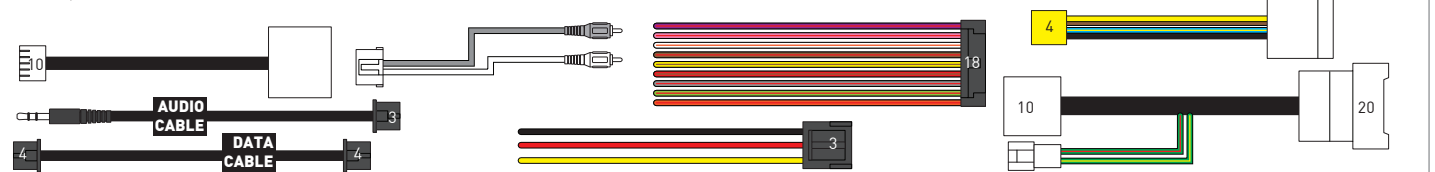
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

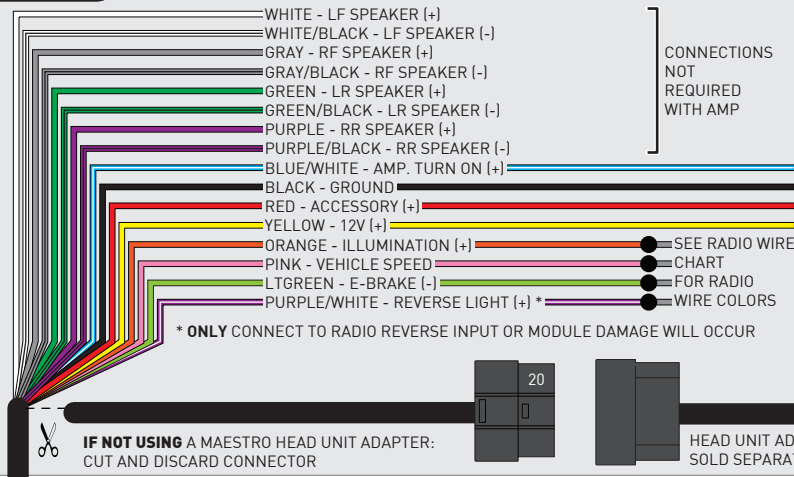
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

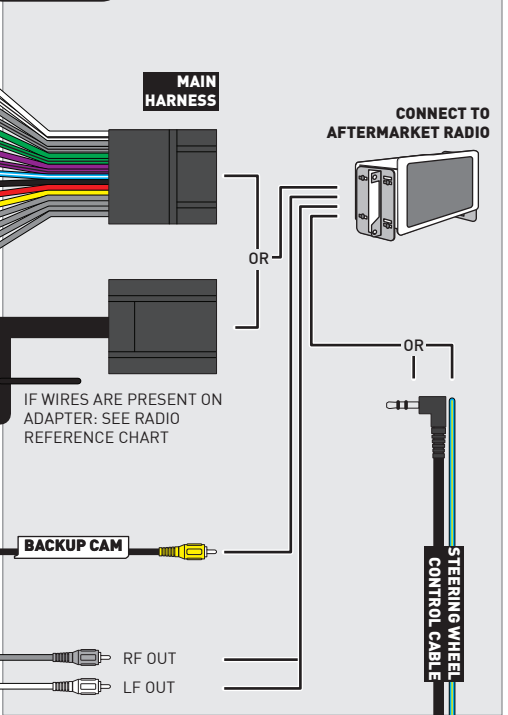
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# WIRING DIAGRAM *with an Amplifier*

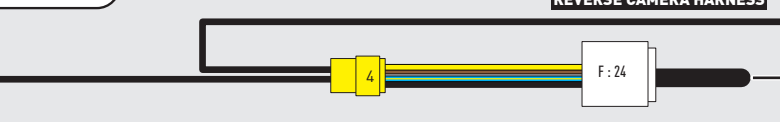
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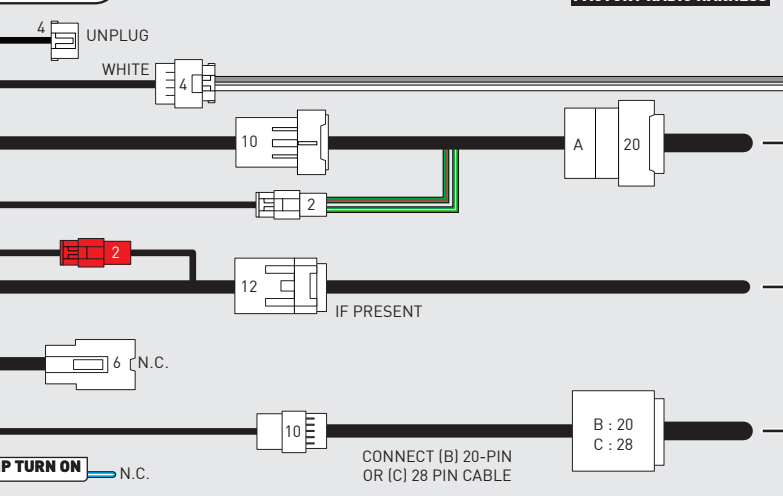
## STEP 5



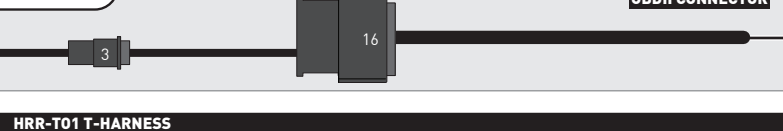
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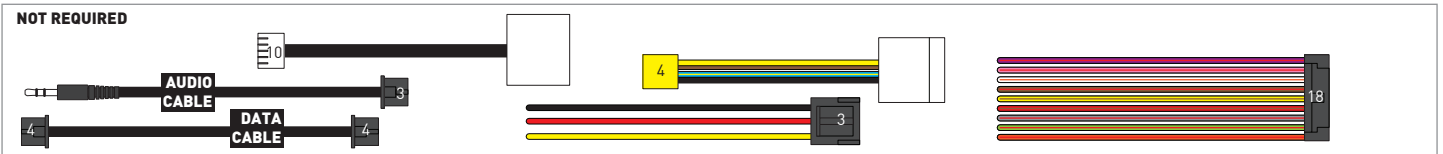
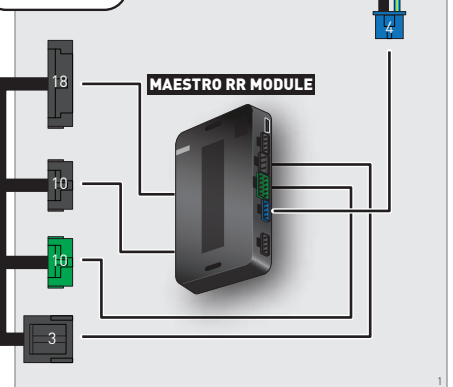
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio

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● 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1



# WELCOME

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

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

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

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Installation Instructions	3
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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

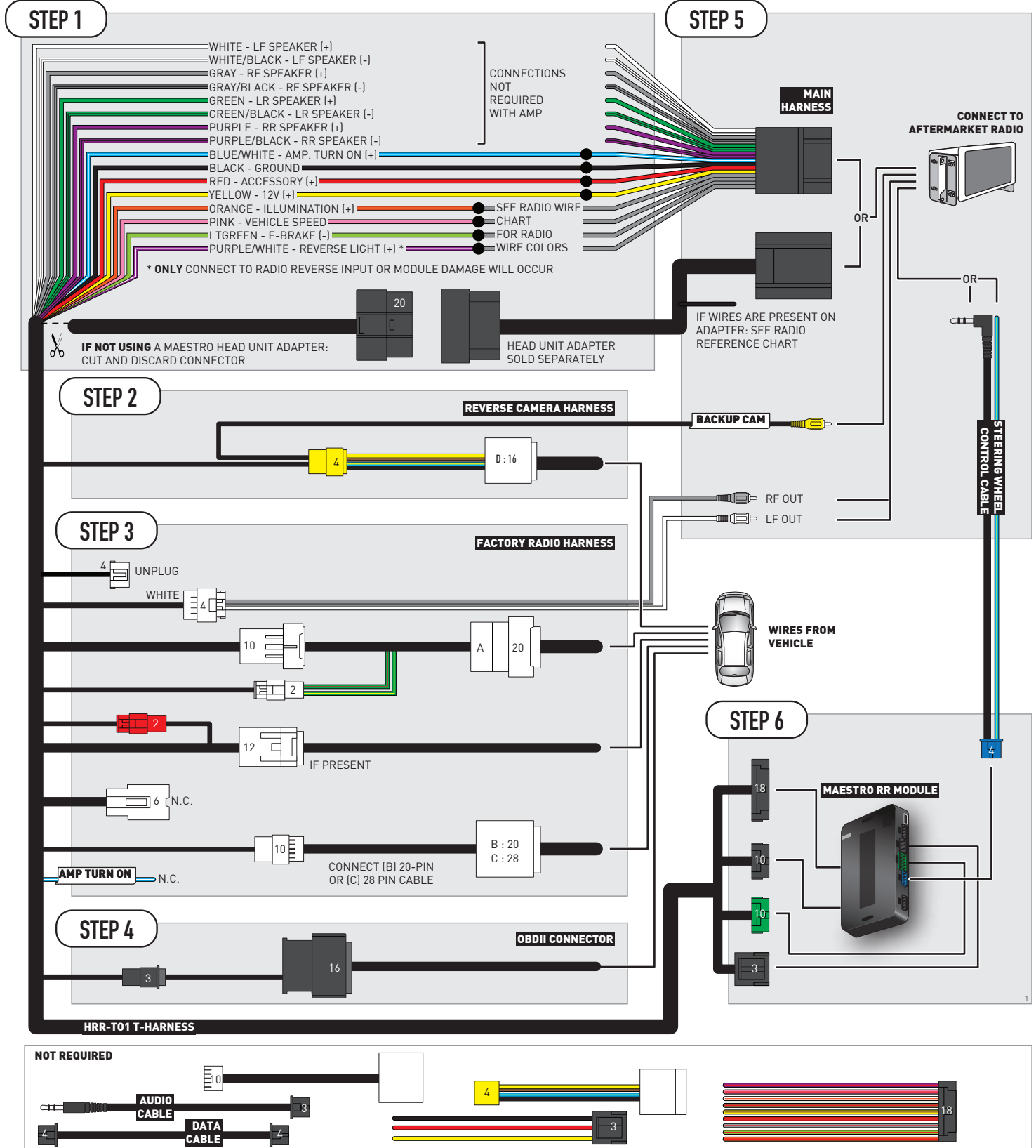
## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES

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ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

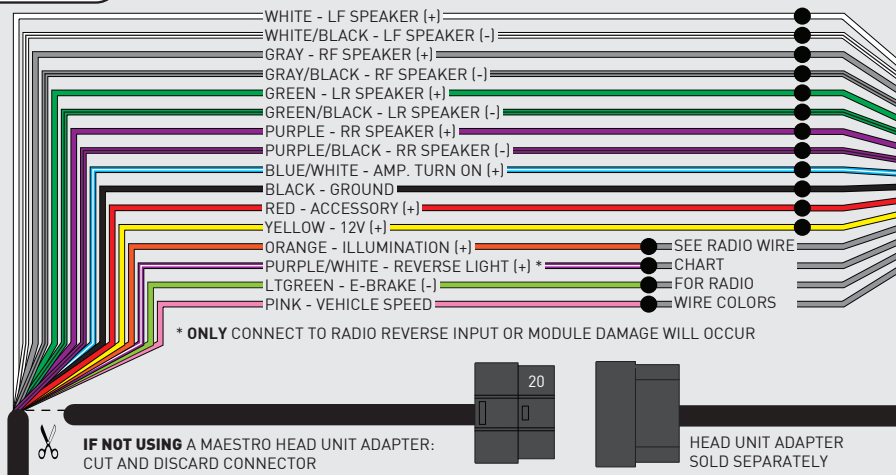
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

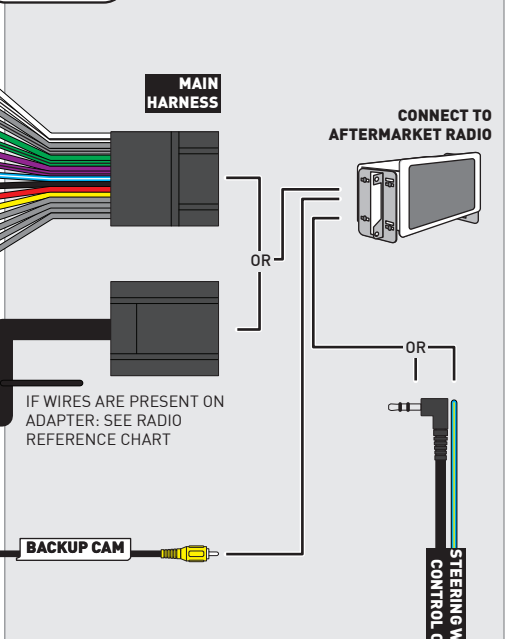
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

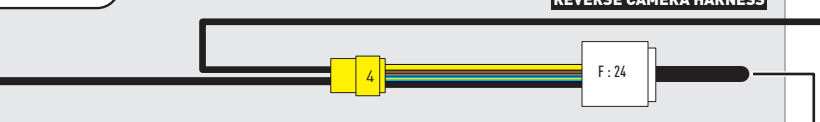
## STEP 1



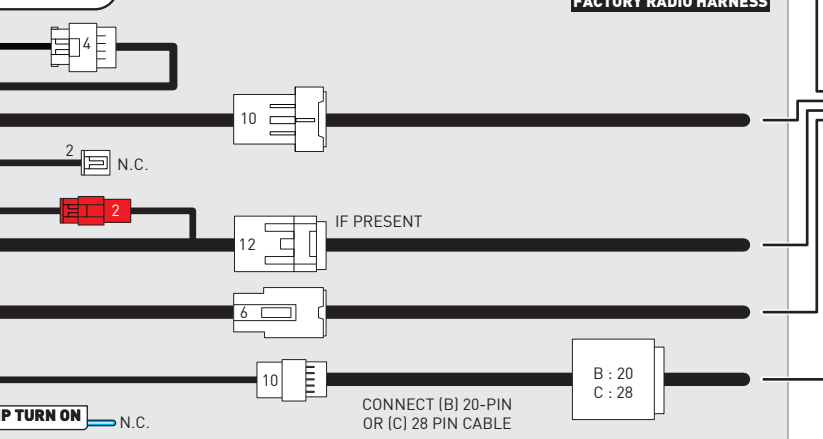
## STEP 5



## STEP 2



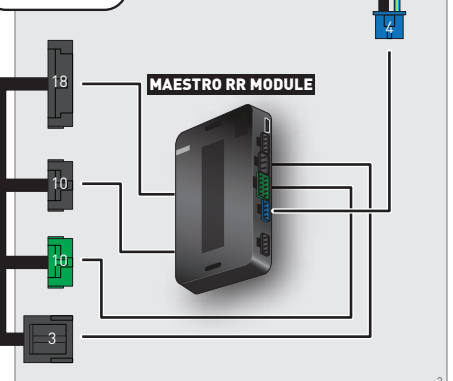
## STEP 3



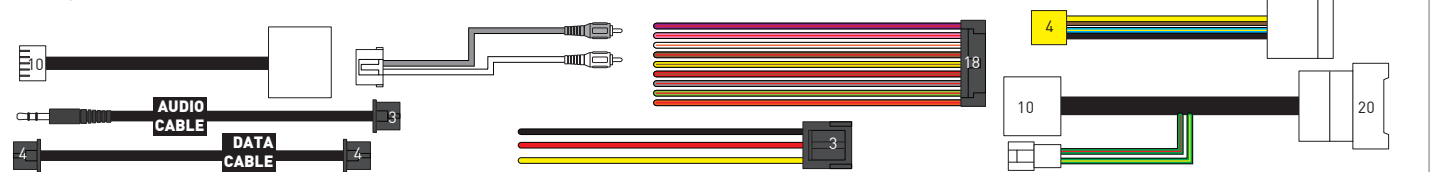
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

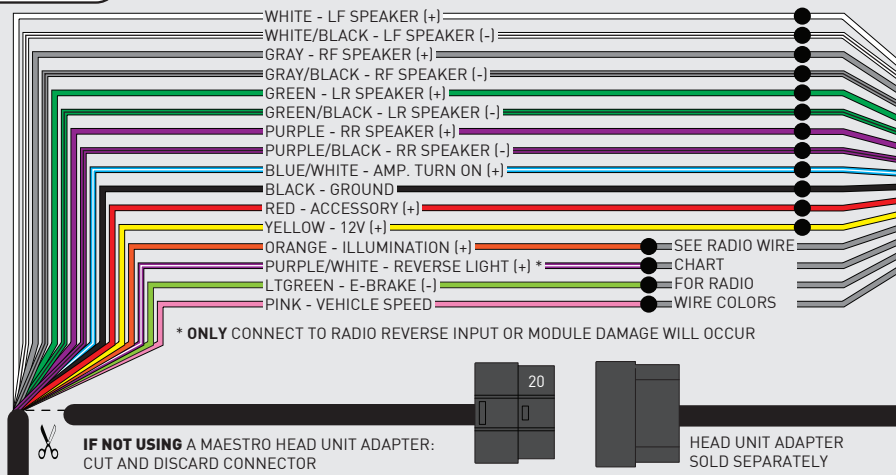
## STEP 6

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

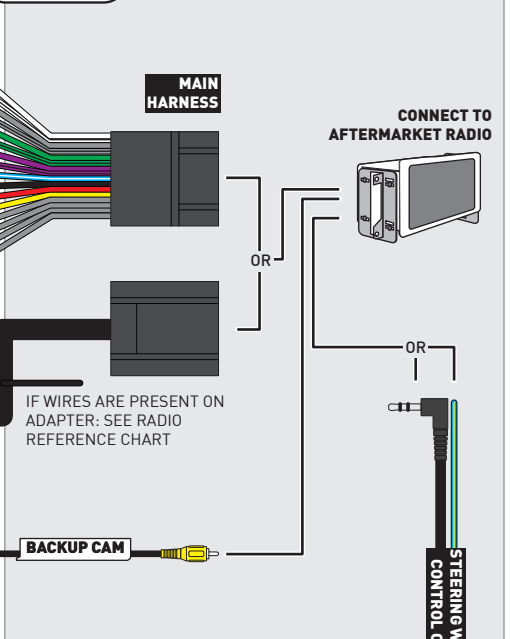


# WIRING DIAGRAM *without an Amplifier*

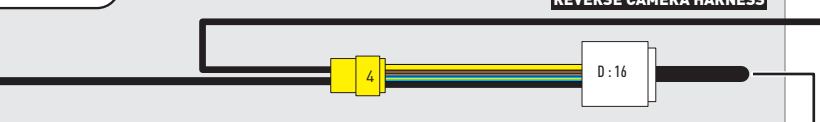
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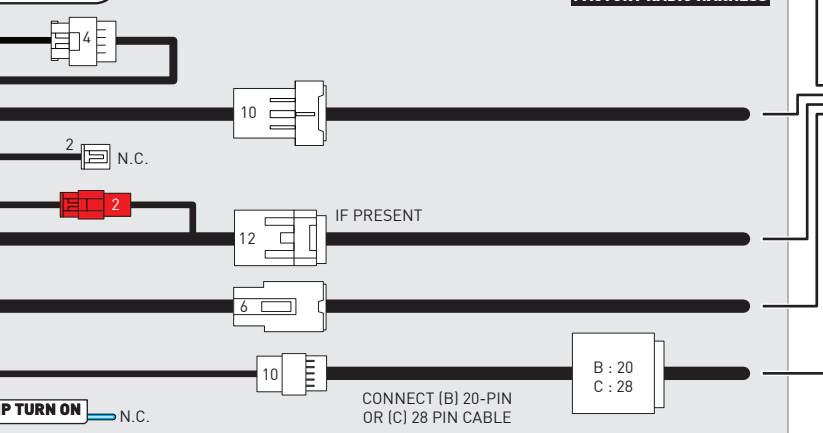
## STEP 5



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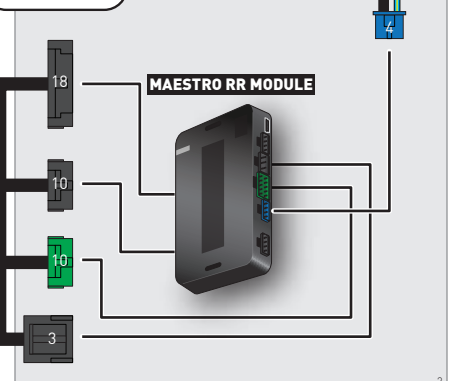
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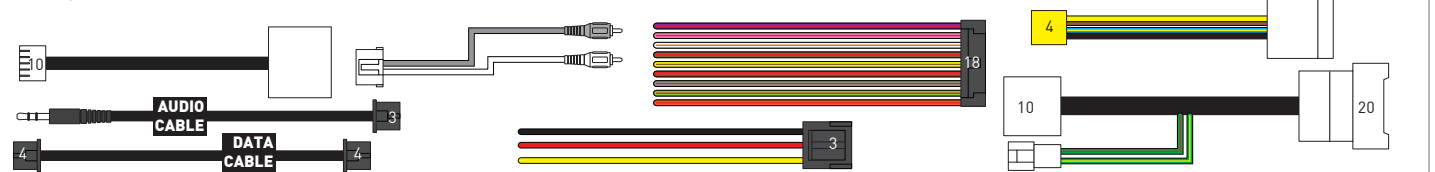
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# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.**

# NEED HELP?

 1 866 427-2999

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Installation Instructions	3
Wiring Diagram	4
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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





# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio




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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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#### PROGRAMMED FIRMWARE

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

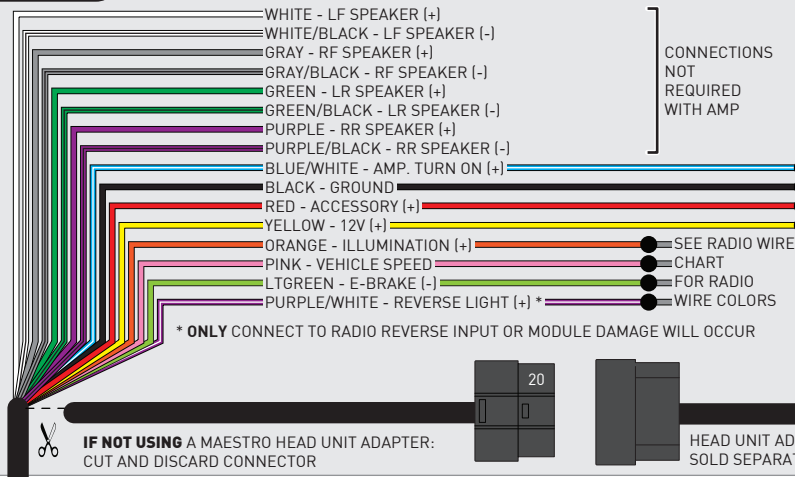
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

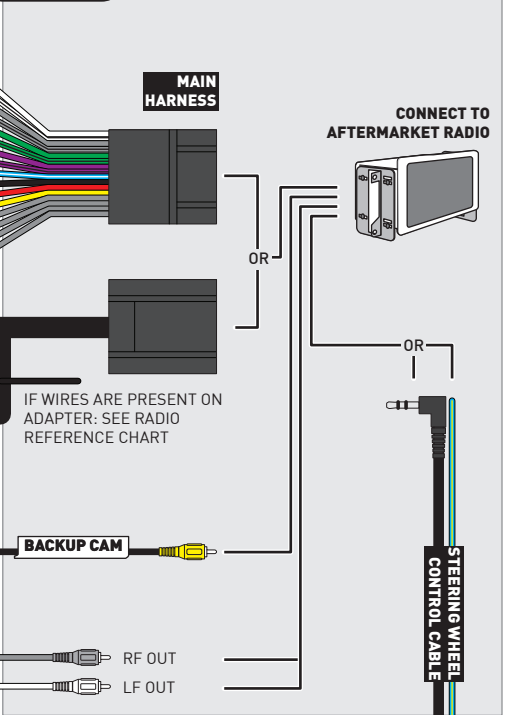
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

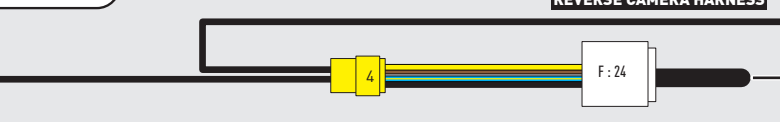
## STEP 1



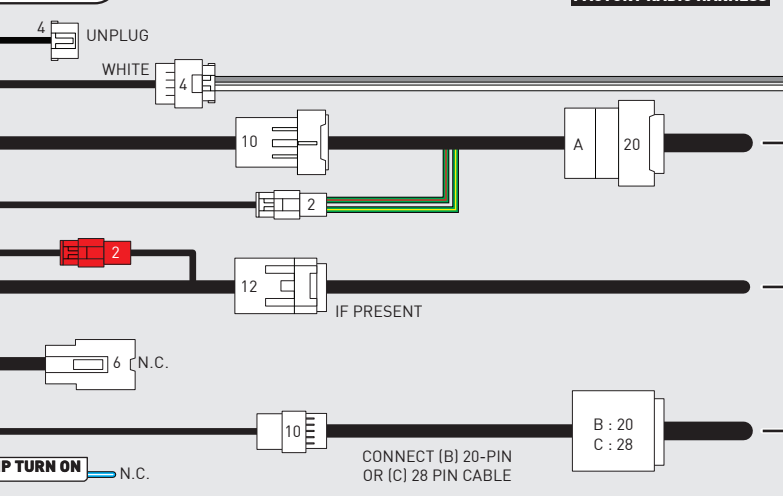
## STEP 5



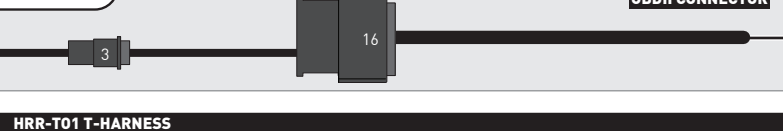
## STEP 2



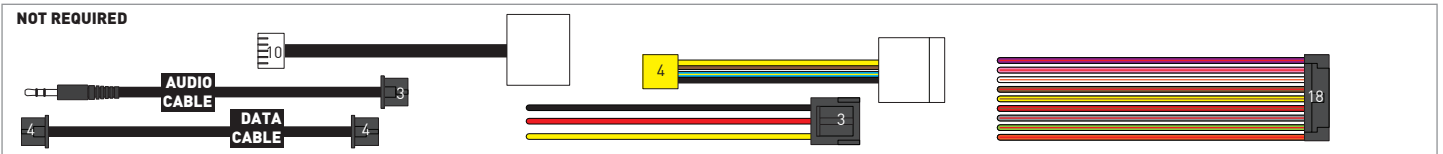
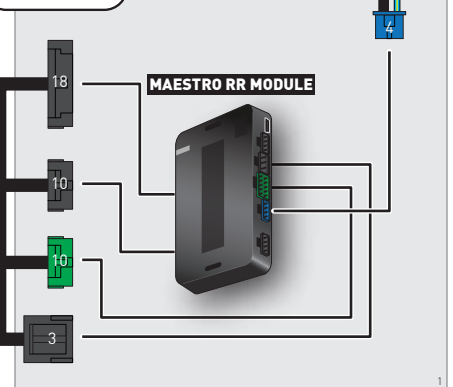
## STEP 3



## STEP 4



## STEP 6



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

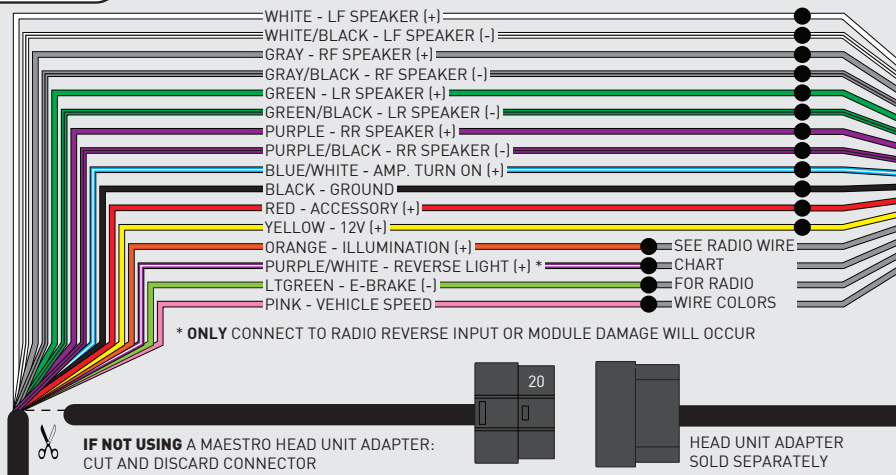
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

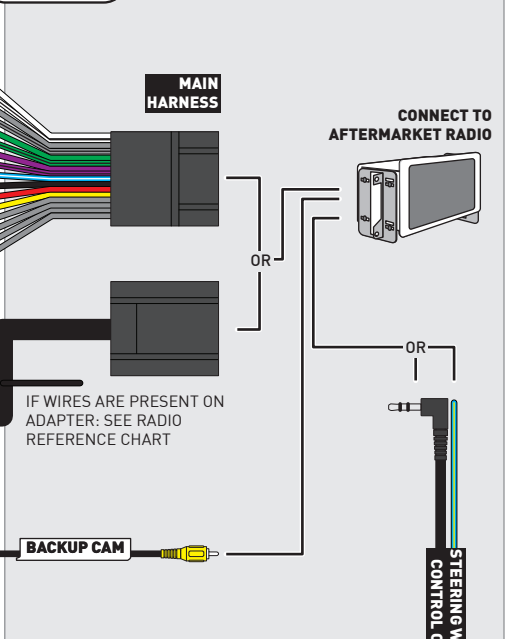
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

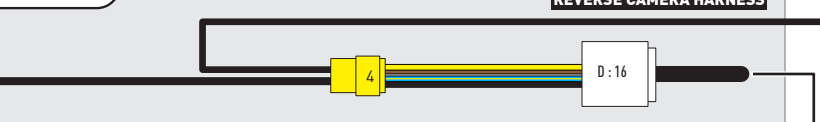
## STEP 1



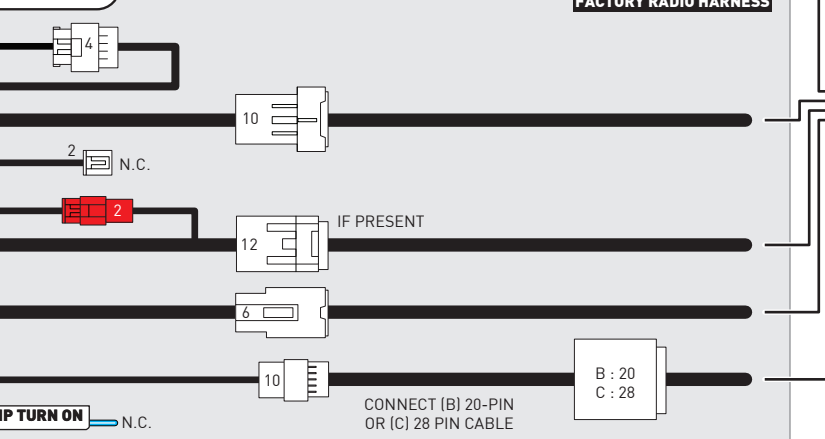
## STEP 5



## STEP 2



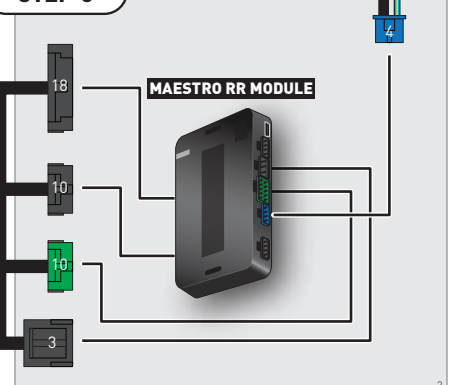
## STEP 3



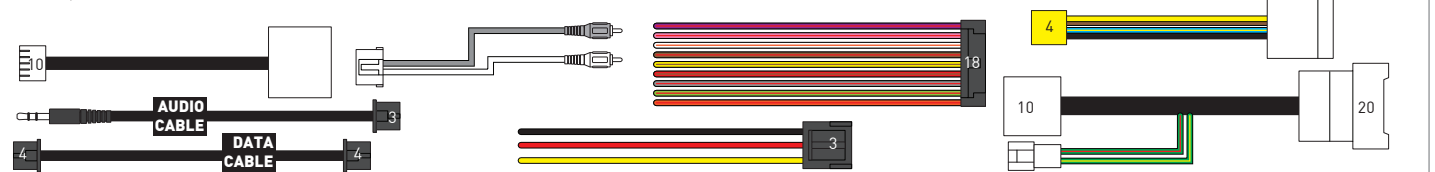
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## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# WELCOME

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

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

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

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Installation Instructions	3
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

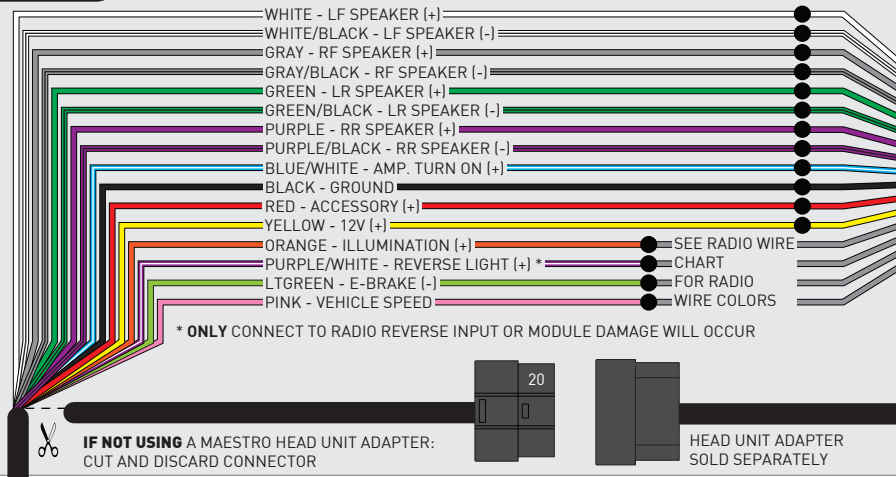
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

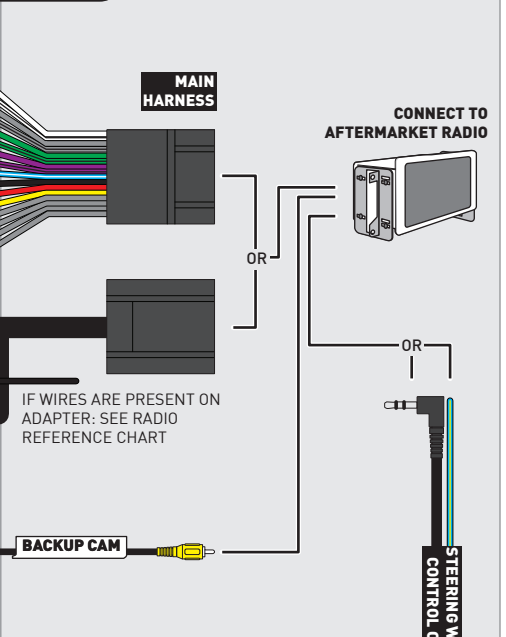
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

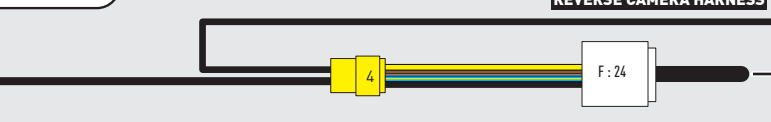
## STEP 1



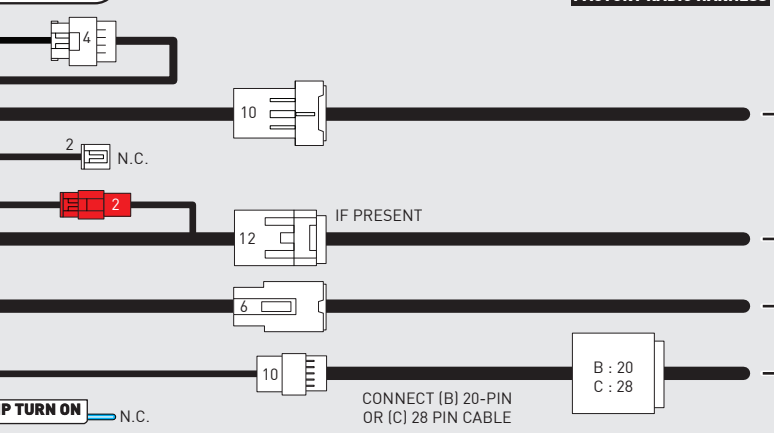
## STEP 5



## STEP 2



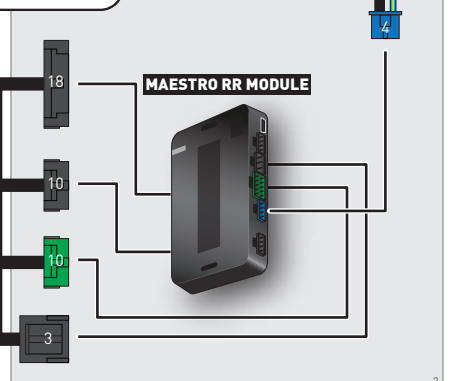
## STEP 3



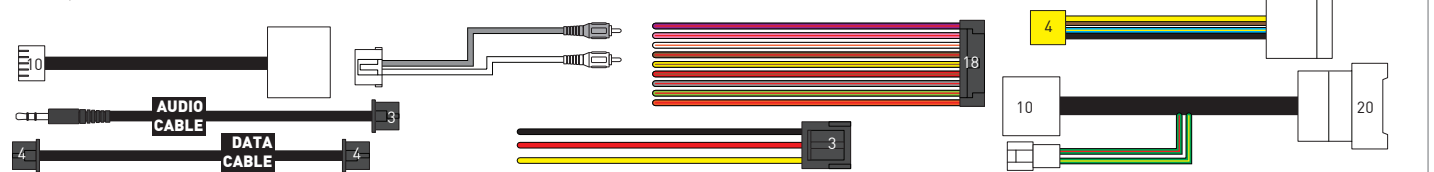
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

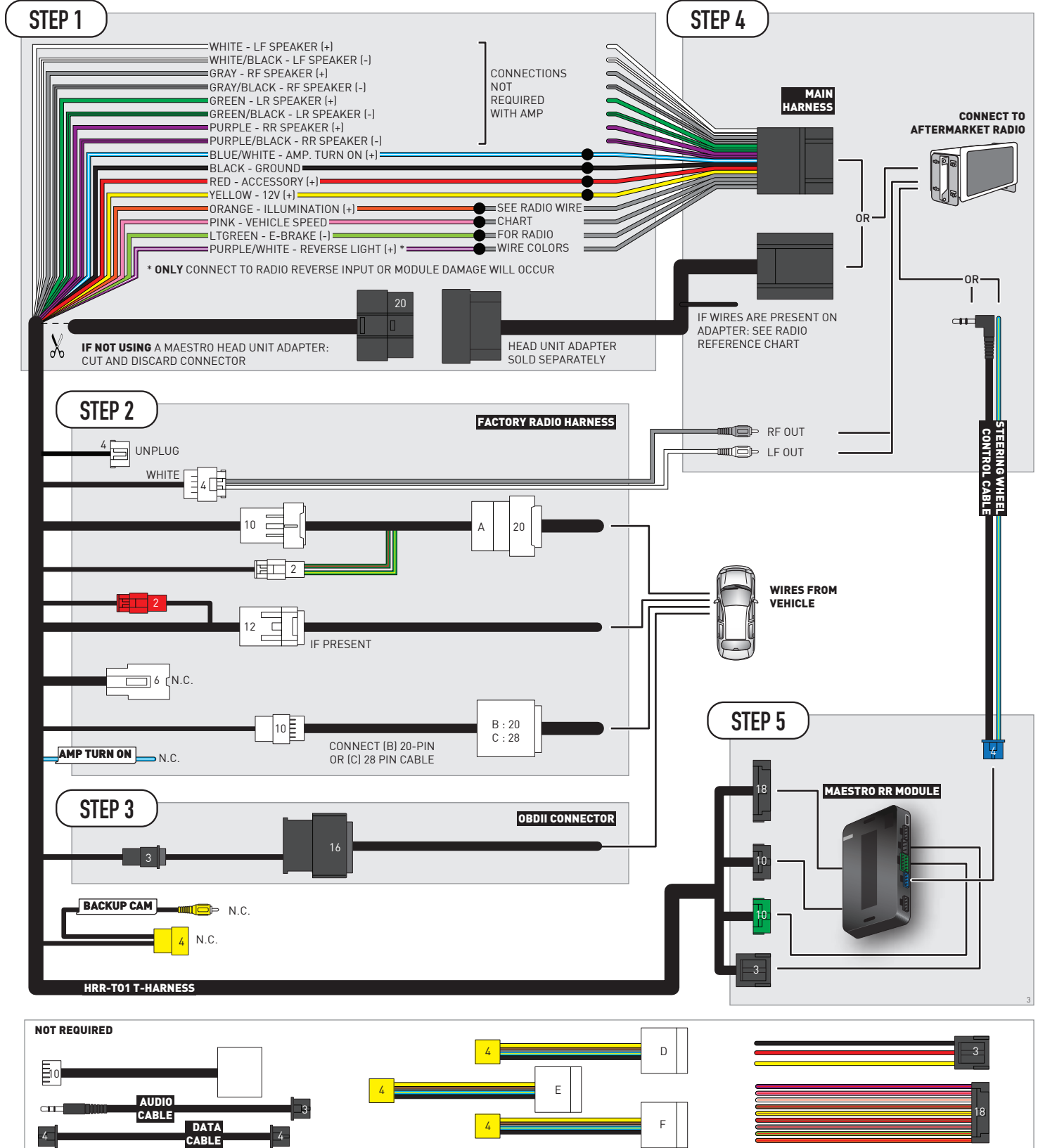
## STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
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<a href="#">VIDEO HELP</a>		Installation, product information, vehicle specific videos.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

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iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.**

## TABLE OF CONTENTS

Installation Instructions	3
Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

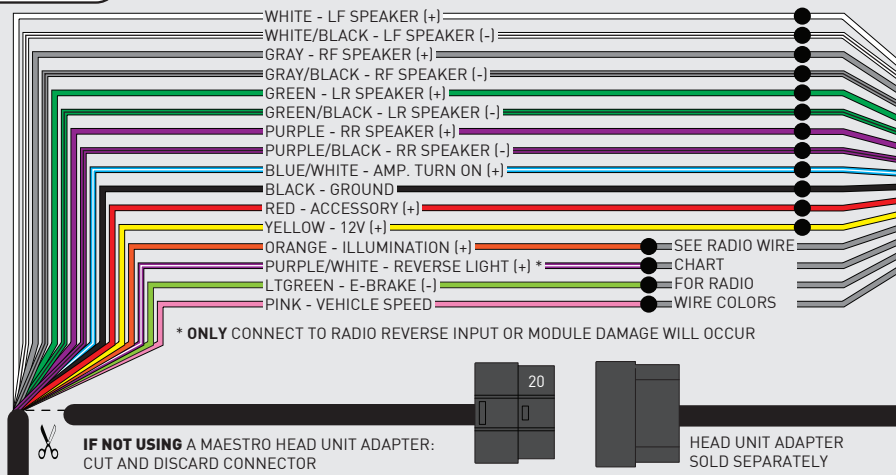
## STEP 6

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

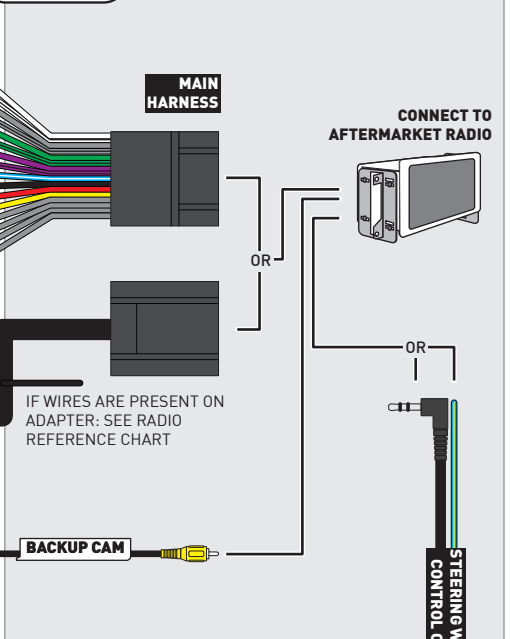


# WIRING DIAGRAM *without an Amplifier*

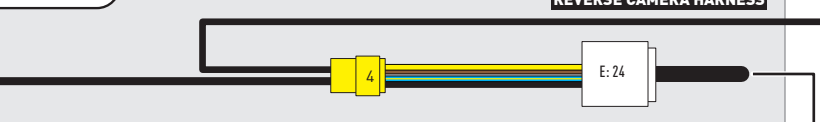
## STEP 1



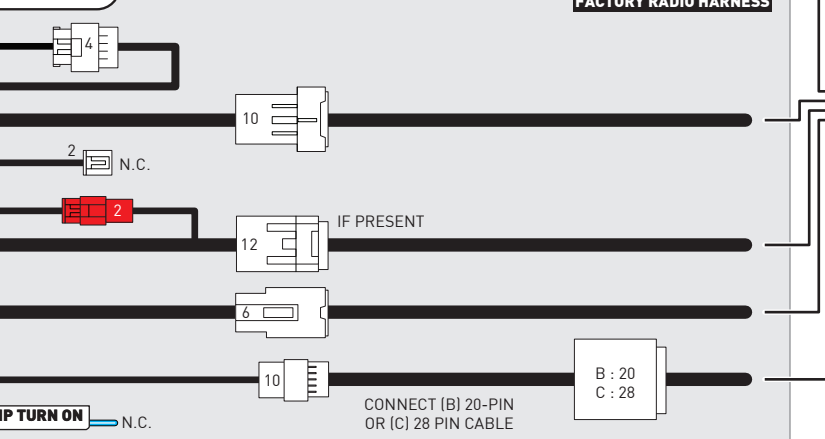
## STEP 5



## STEP 2



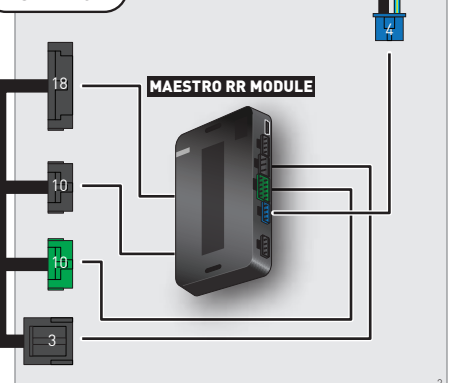
## STEP 3



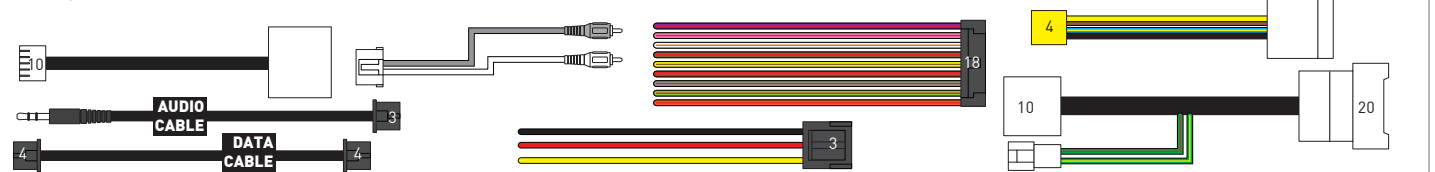
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

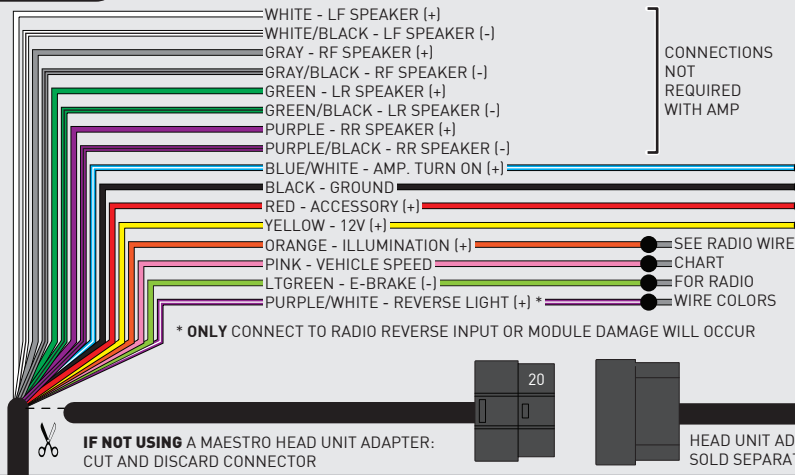
- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

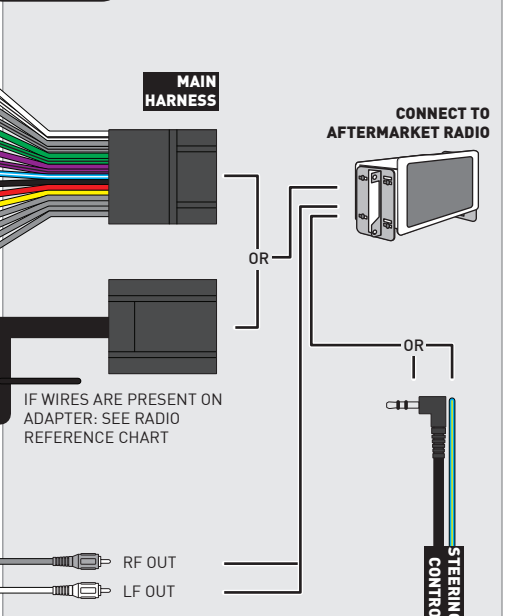
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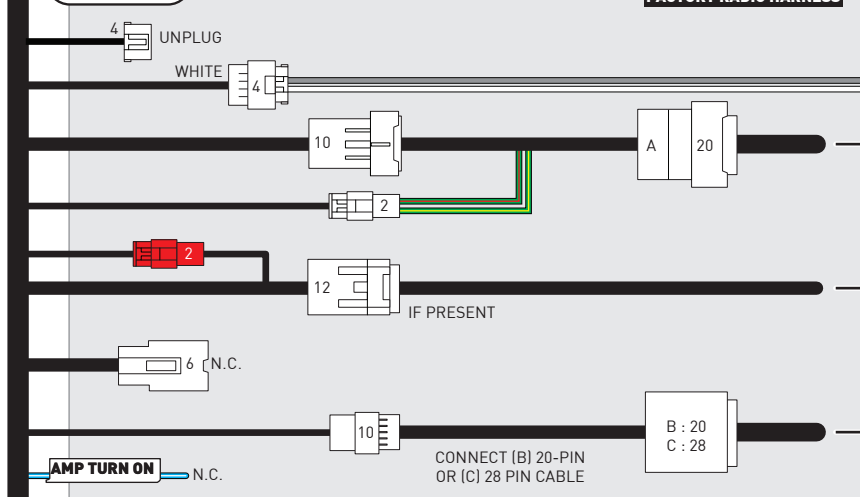
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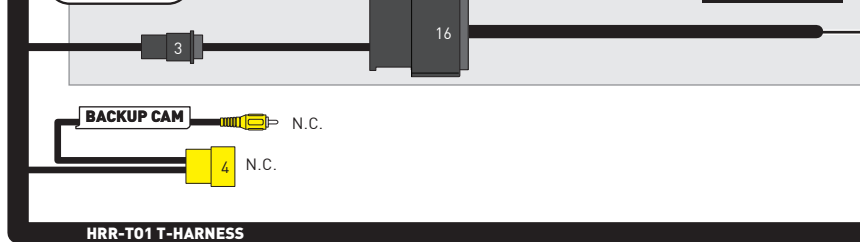
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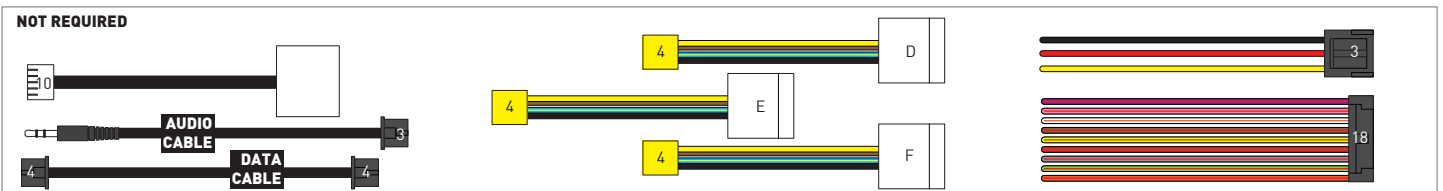
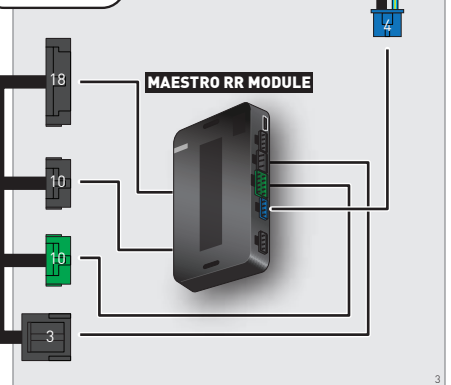
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Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

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[Maestro RR2 Programmable Outputs Guide](#)

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**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

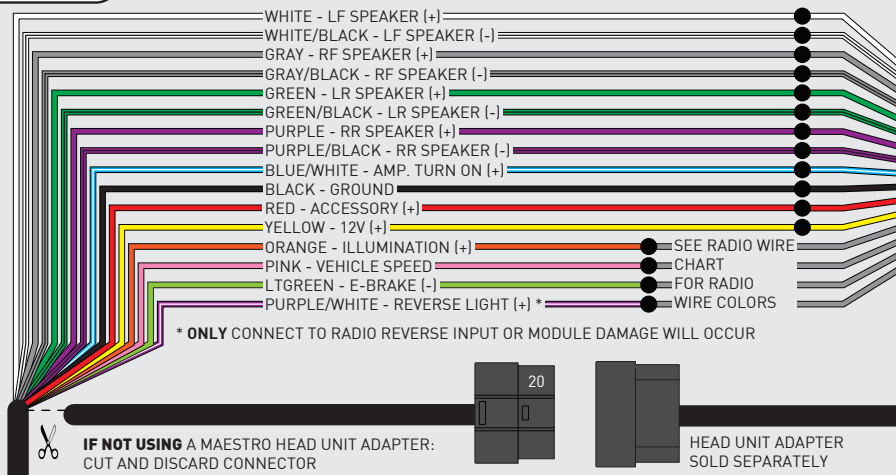
- Plug the harnesses into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

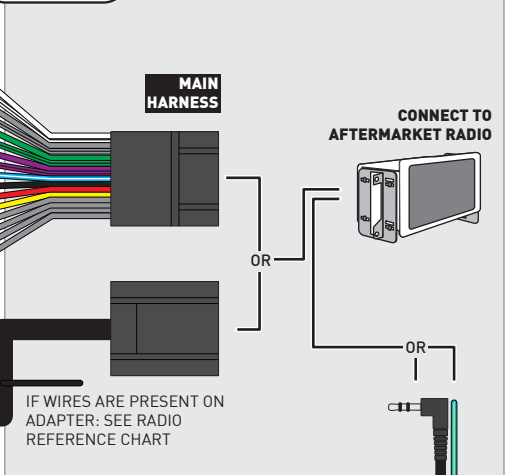
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

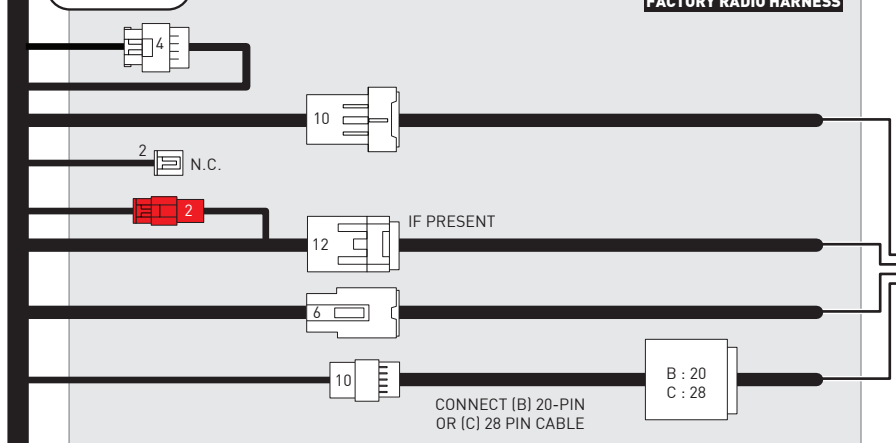
## STEP 1



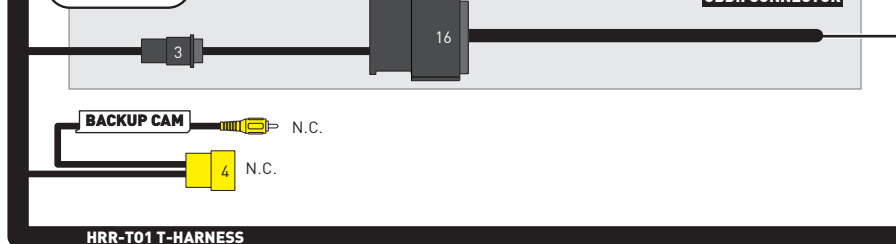
## STEP 4



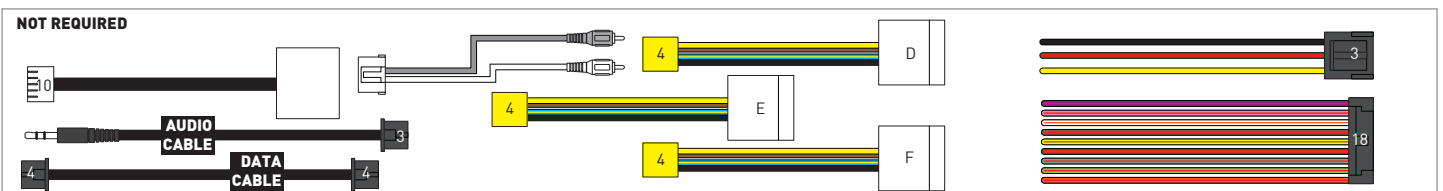
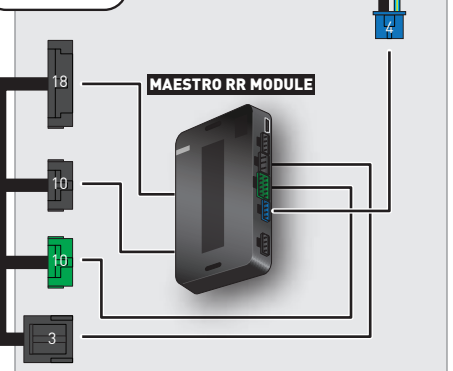
## STEP 2



## STEP 3



## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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## OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

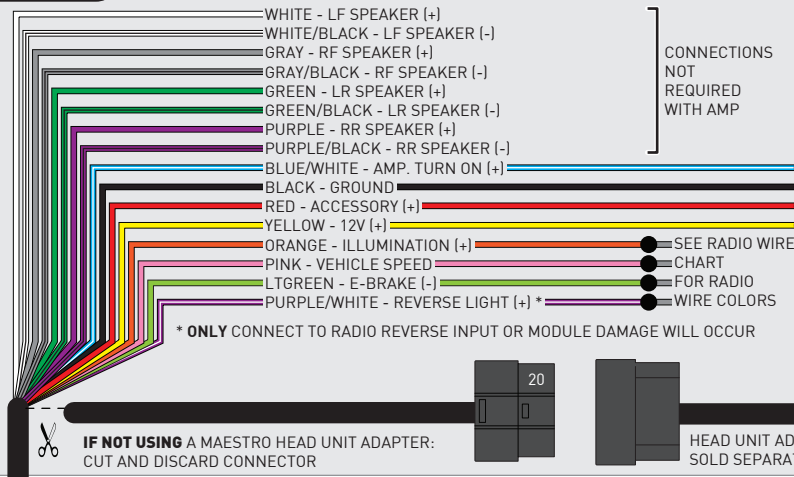
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

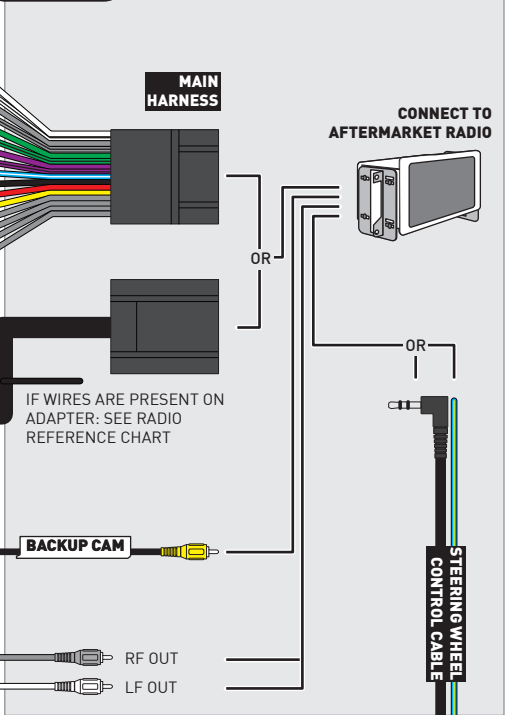
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

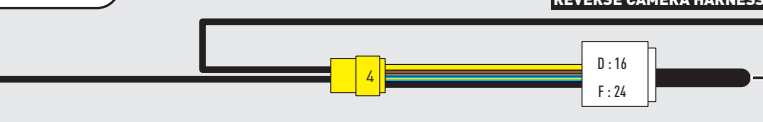
## STEP 1



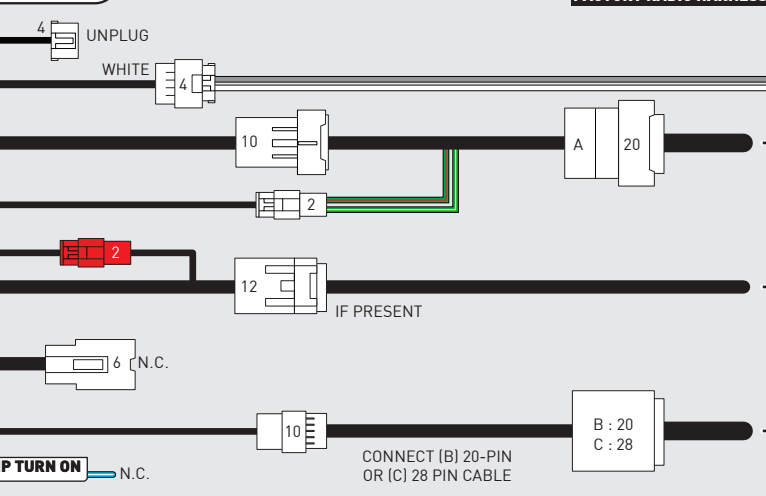
## STEP 5



## STEP 2



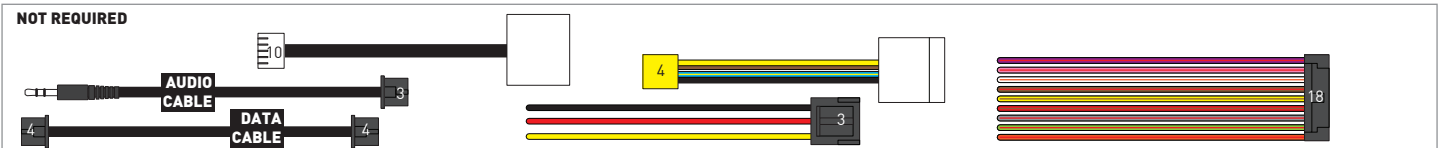
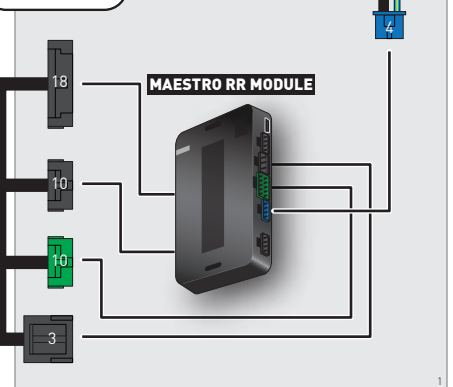
## STEP 3



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# RADIO WIRE REFERENCE CHART

T01 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

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ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
or		RED or GREEN flashing	LED flashes 1 or more times, either red or green, <b>when a steering wheel button is pressed</b> : normal operation.
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2013

TOYOTA HIGHLANDER  
WITH JBL

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## STEP 2

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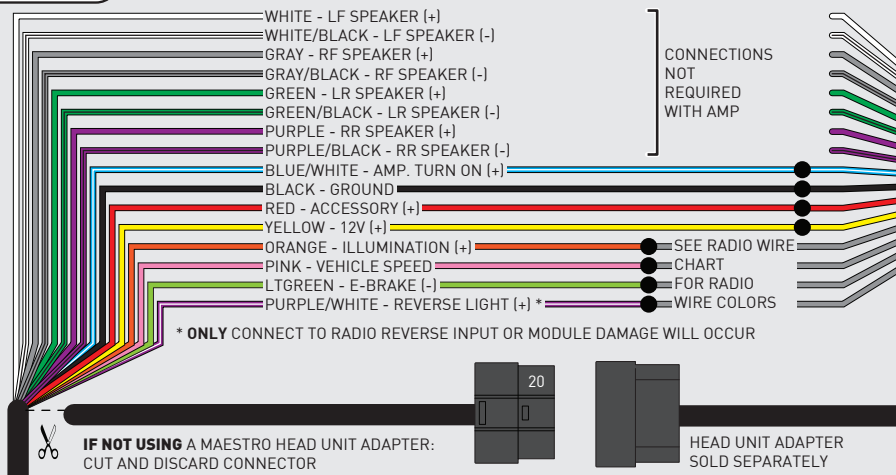
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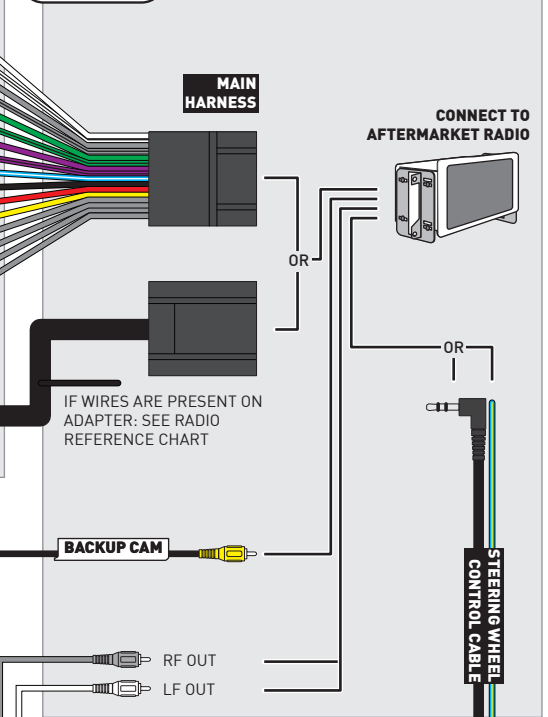
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# WIRING DIAGRAM *with an Amplifier*

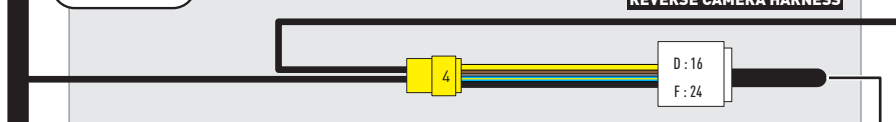
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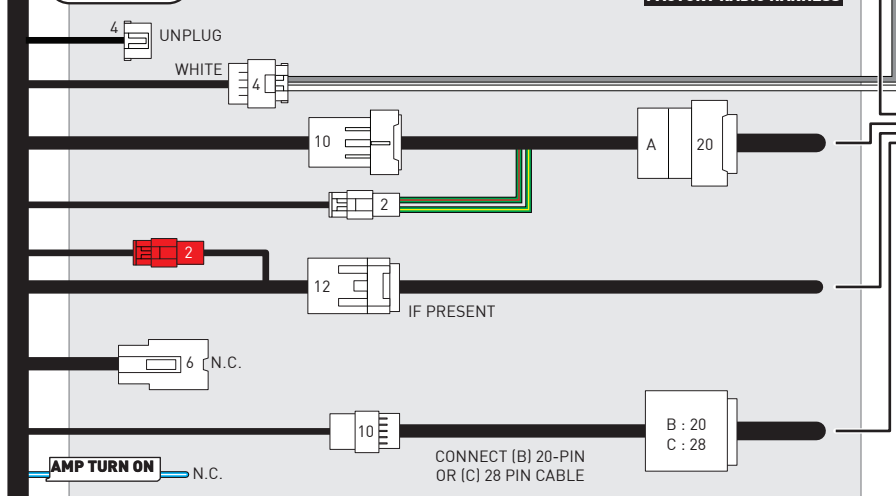
## STEP 5



## STEP 2



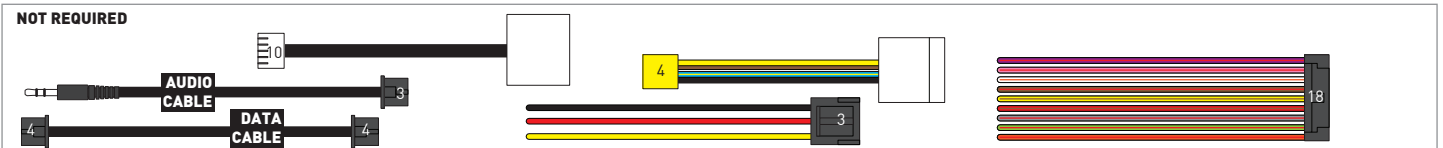
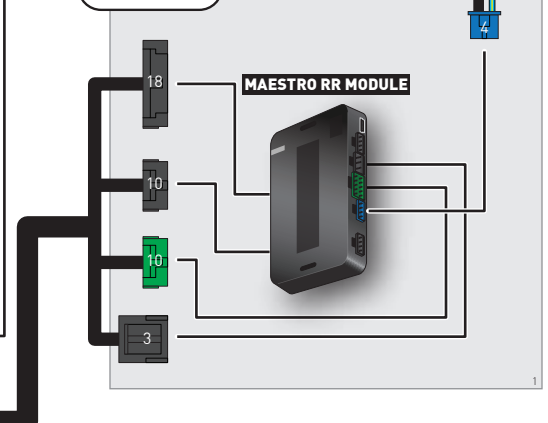
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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White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

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

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

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
CAM	(+)	Green/Red	Refer to camera/radio manual
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# WELCOME

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

## TABLE OF CONTENTS

Installation Instructions	3
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

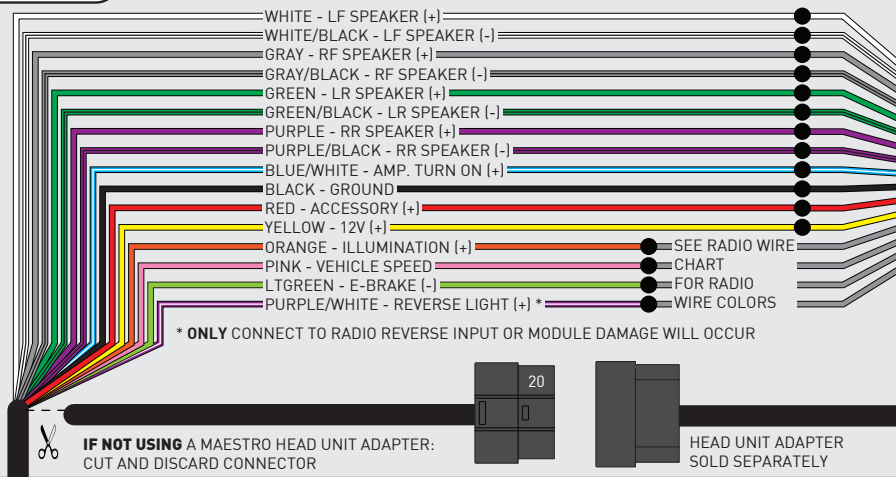
- Plug the harnesses into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

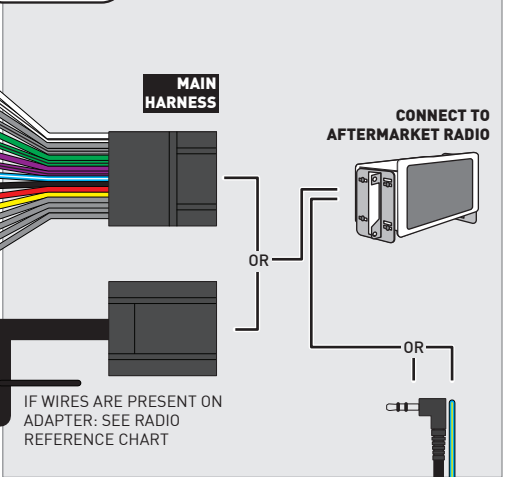
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

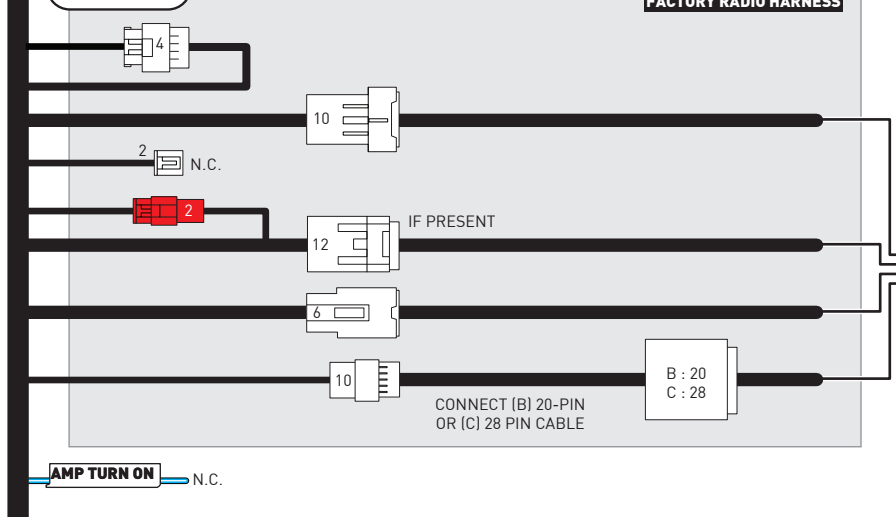
## STEP 1



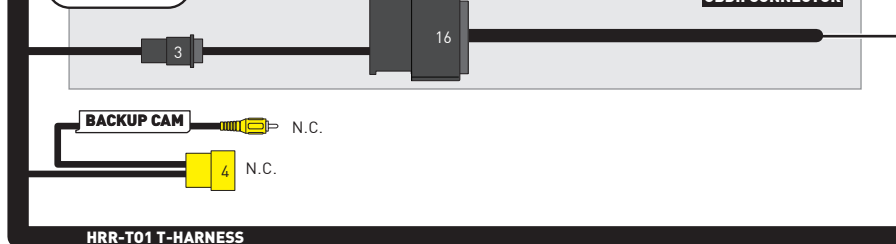
## STEP 4



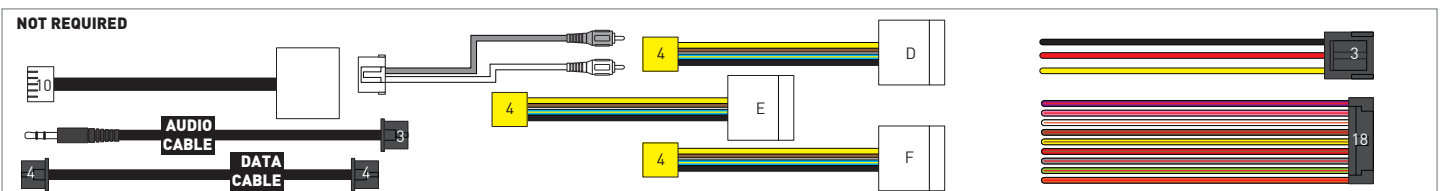
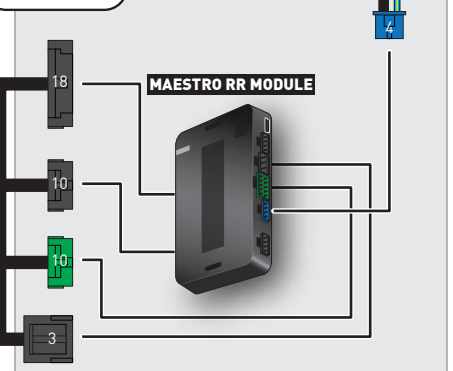
## STEP 2



## STEP 3



## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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.**

2013

TOYOTA HIGHLANDER  
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1



# 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.

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

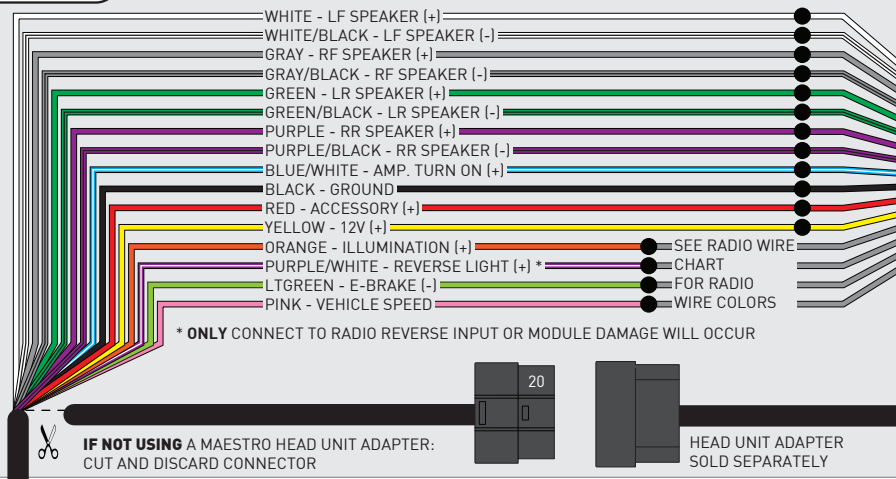
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

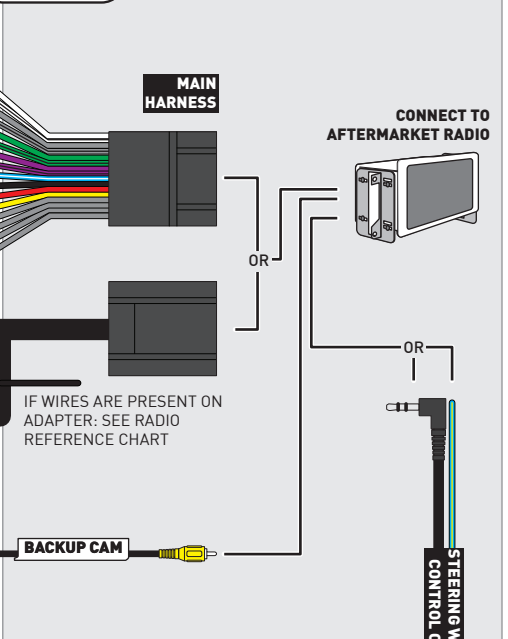
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

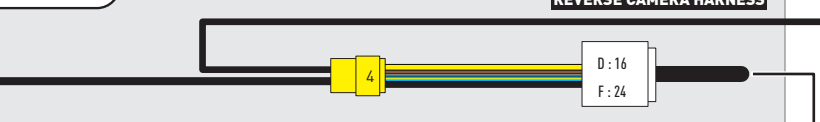
## STEP 1



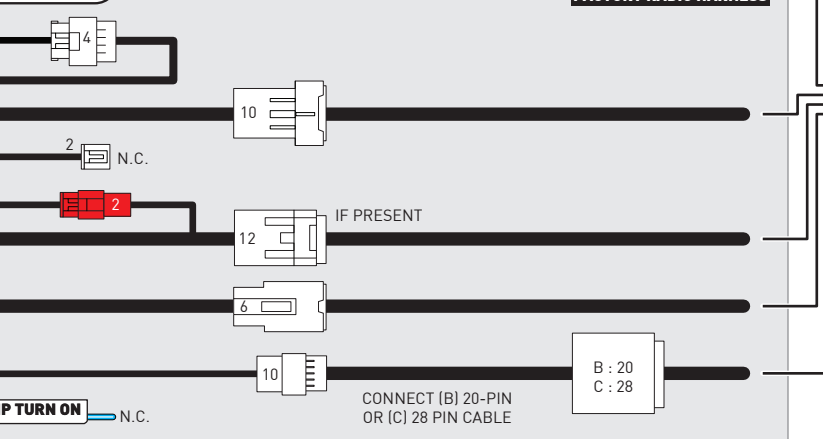
## STEP 5



## STEP 2



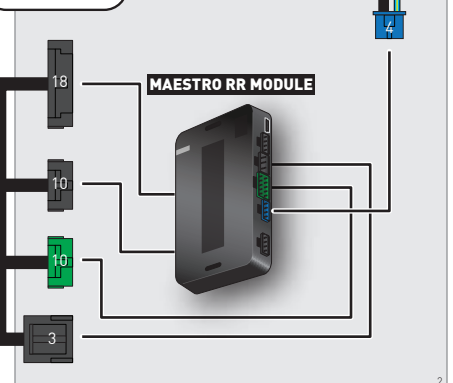
## STEP 3



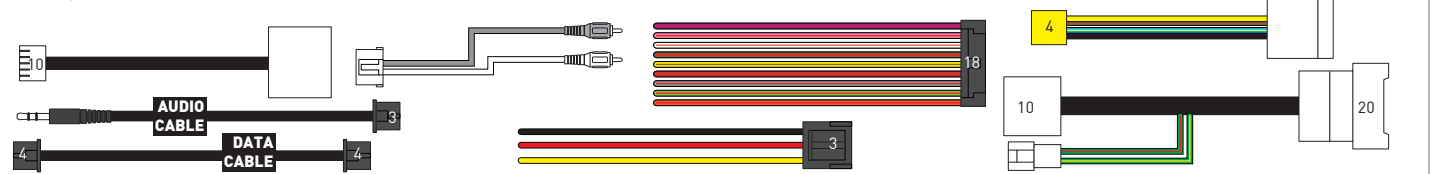
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.**

## TABLE OF CONTENTS

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

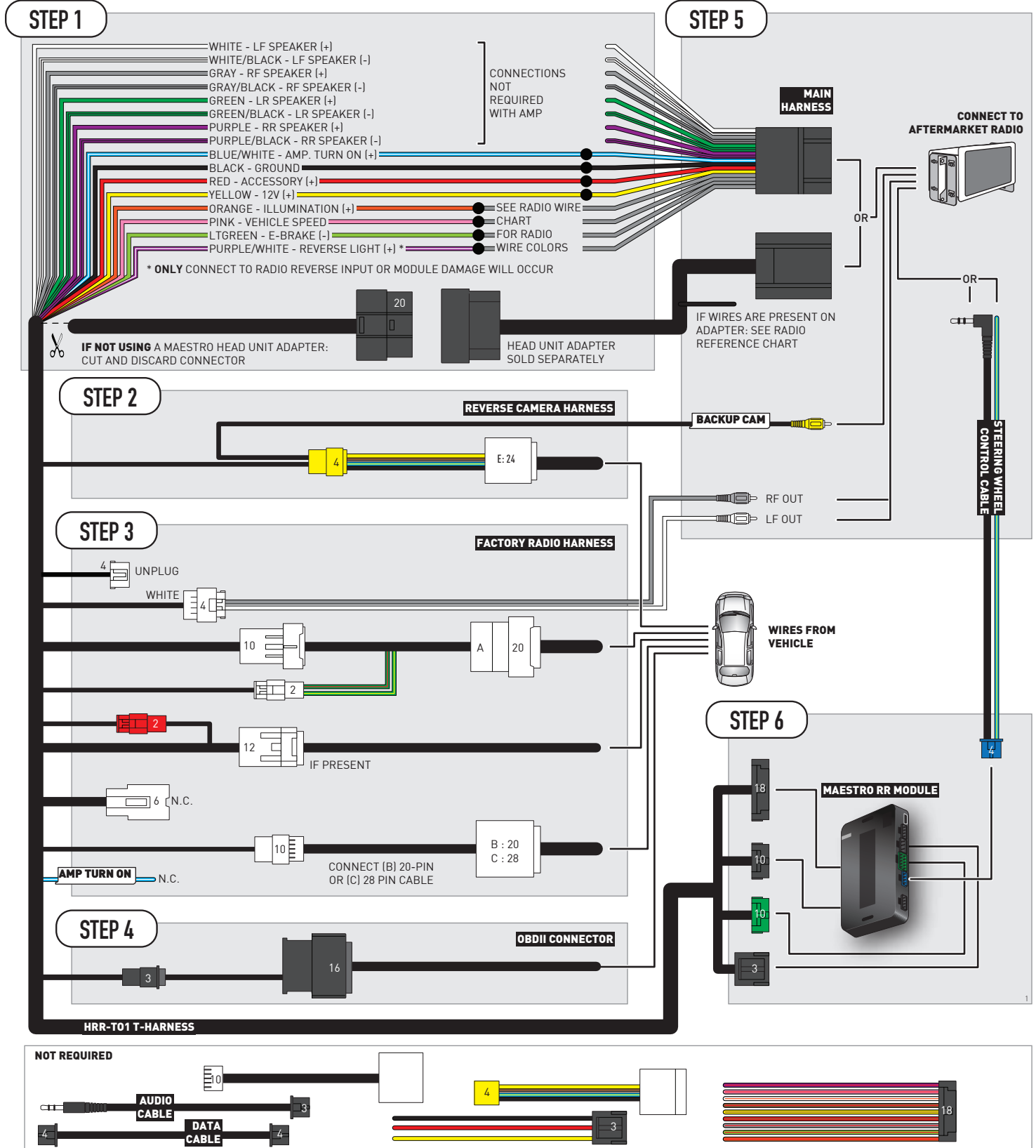
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

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



# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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 [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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

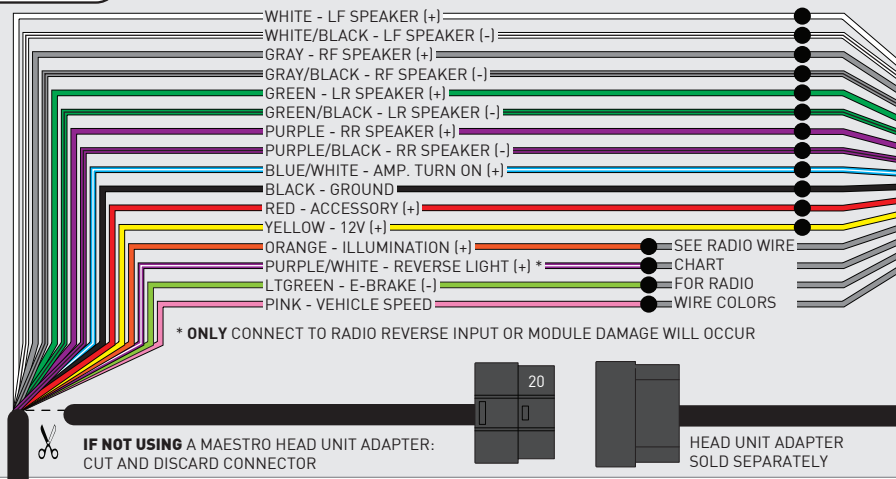
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

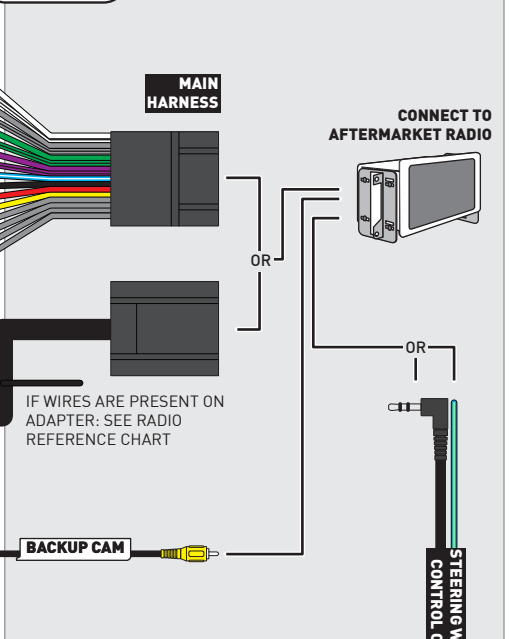
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

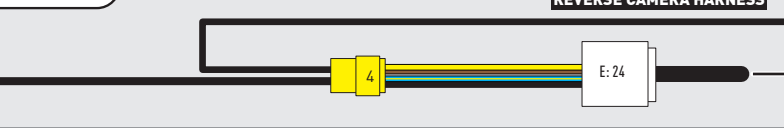
## STEP 1



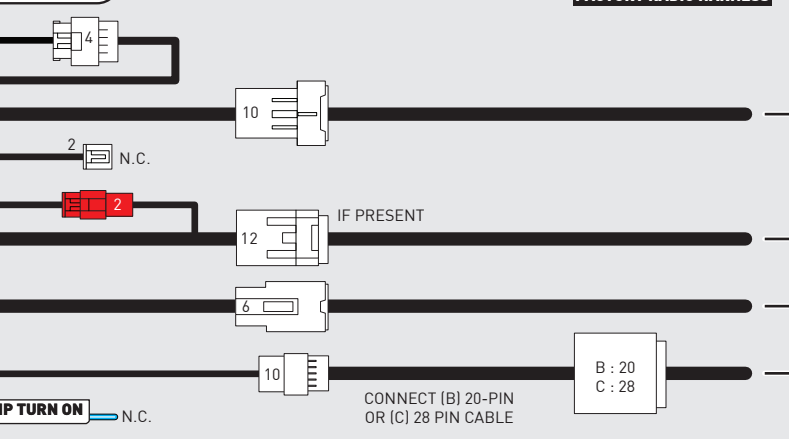
## STEP 5



## STEP 2



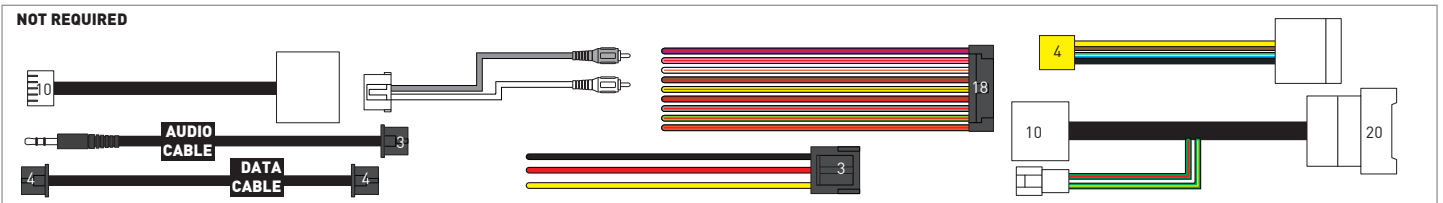
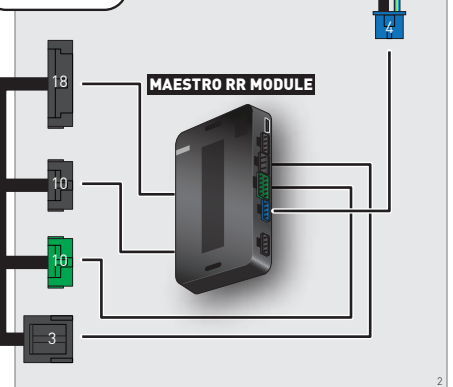
## STEP 3



## STEP 4



## STEP 6





# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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## PROGRAMMED FIRMWARE

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

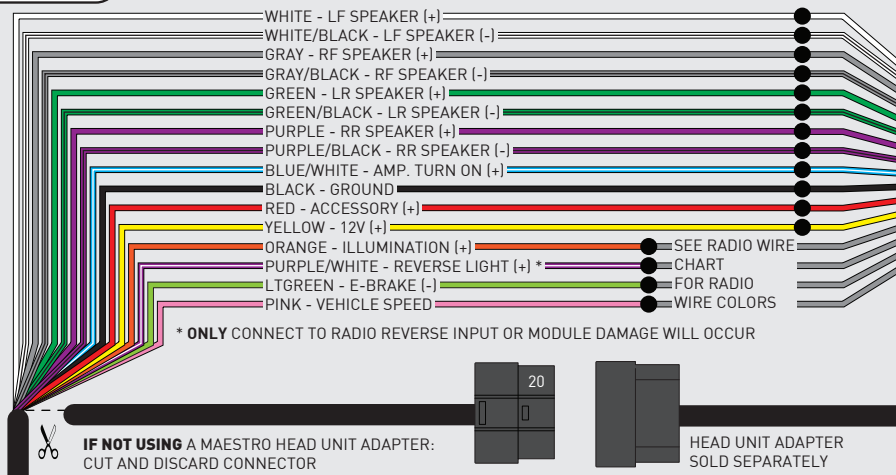
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

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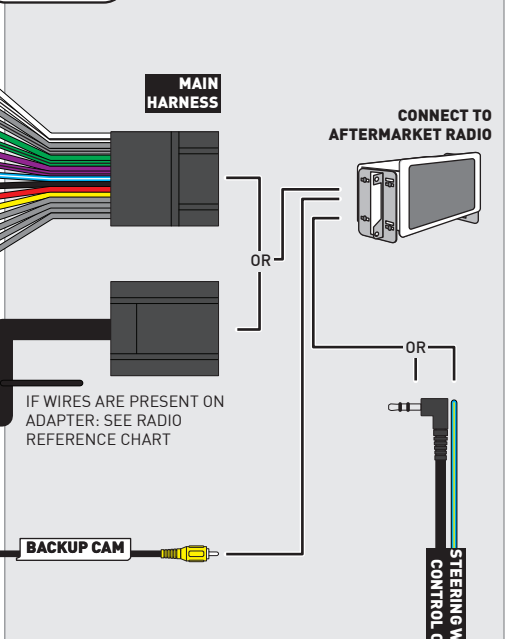
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

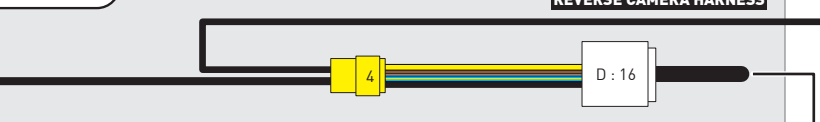
## STEP 1



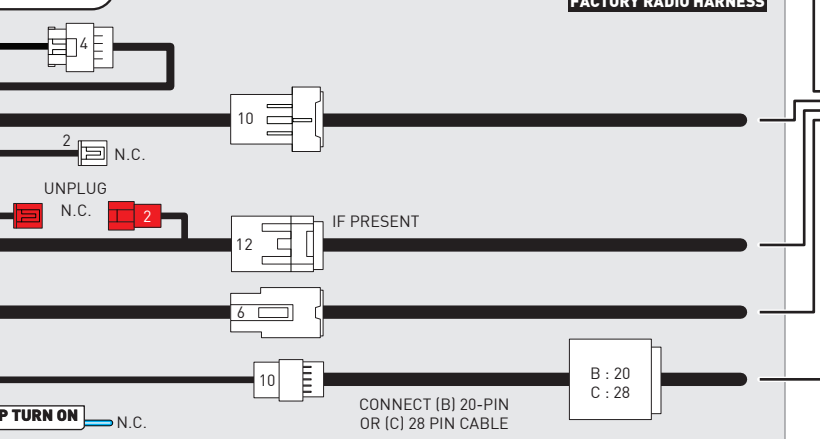
## STEP 5



## STEP 2



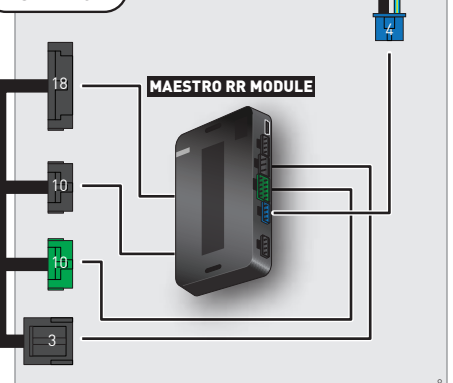
## STEP 3



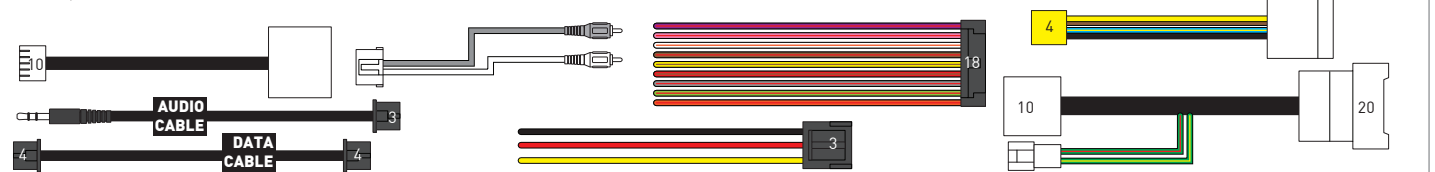
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

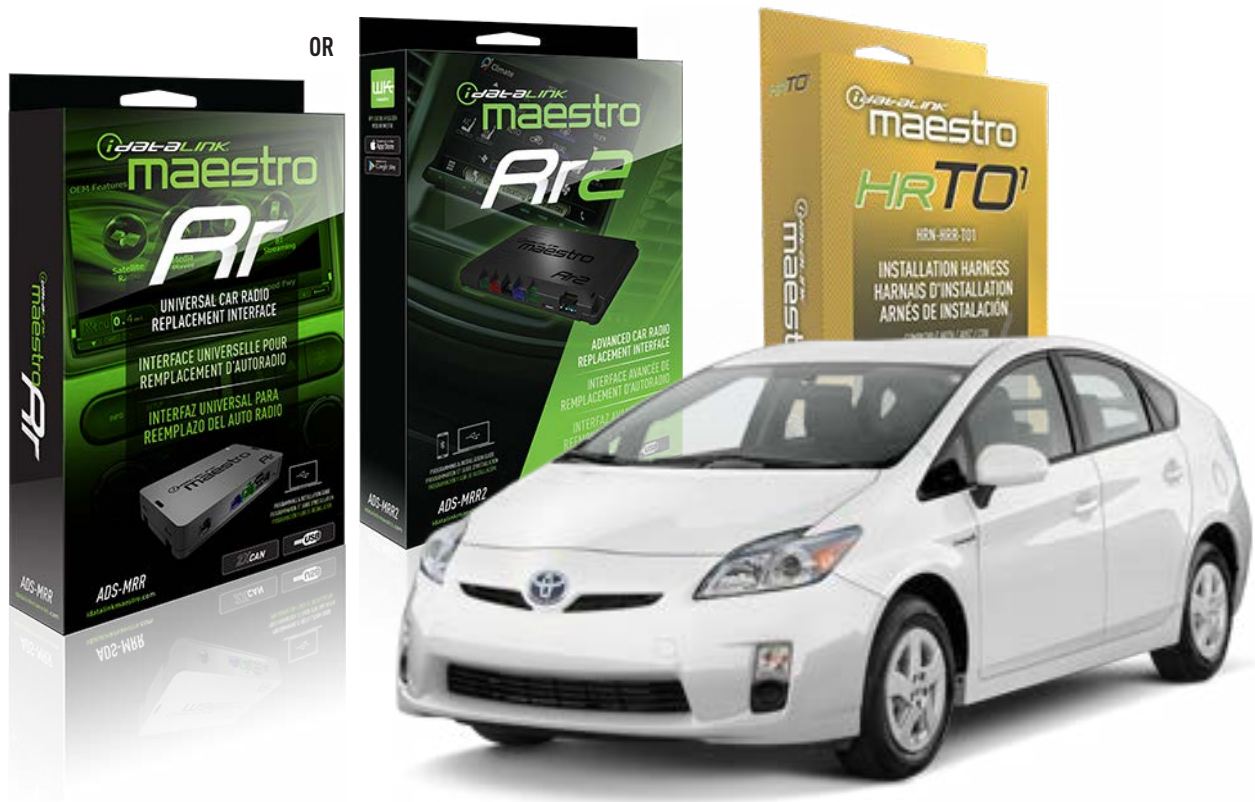
## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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**RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# WELCOME

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

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Installation Instructions	3
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

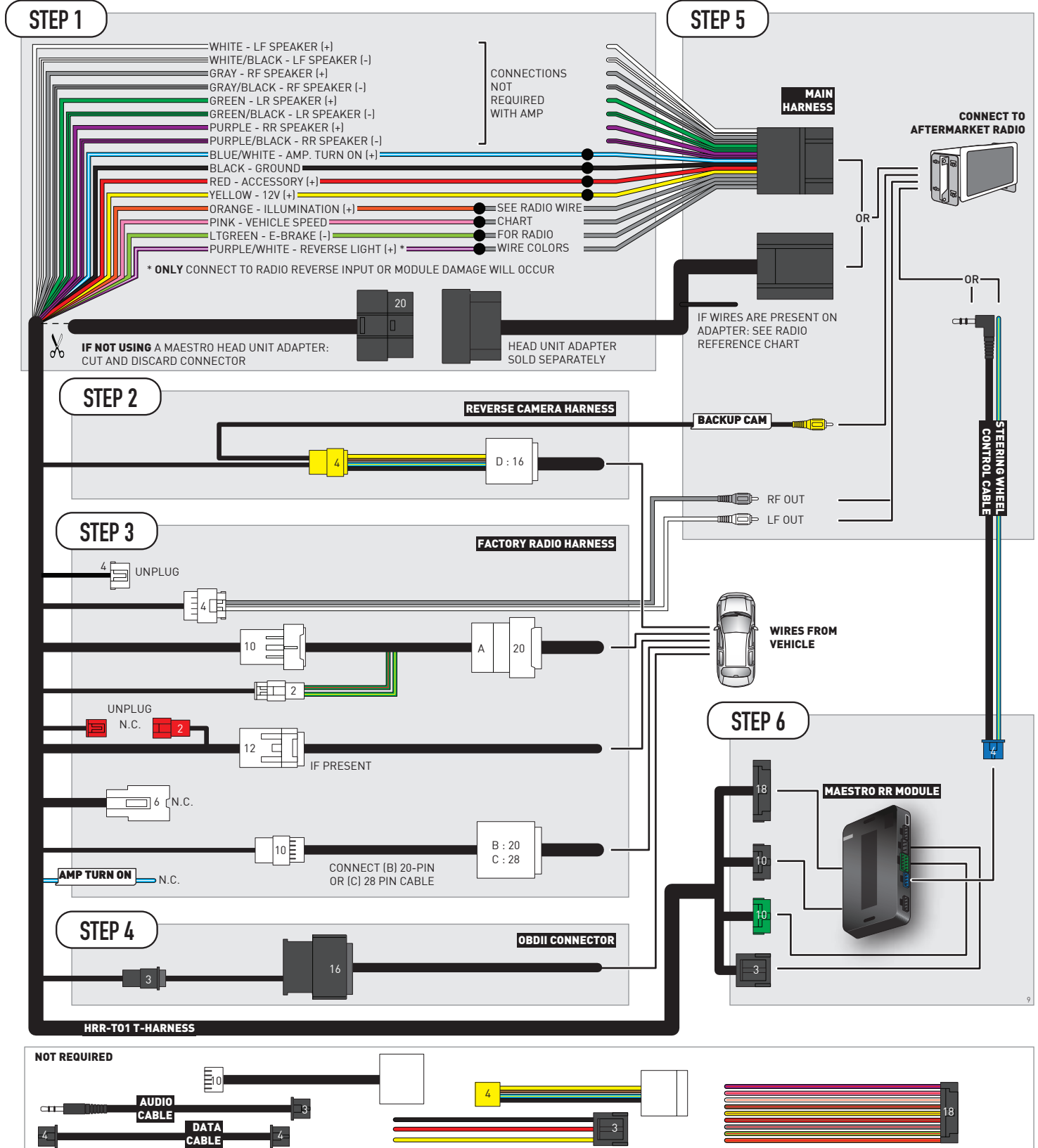
## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		1 GREEN flash	After radio boots up : Normal operation.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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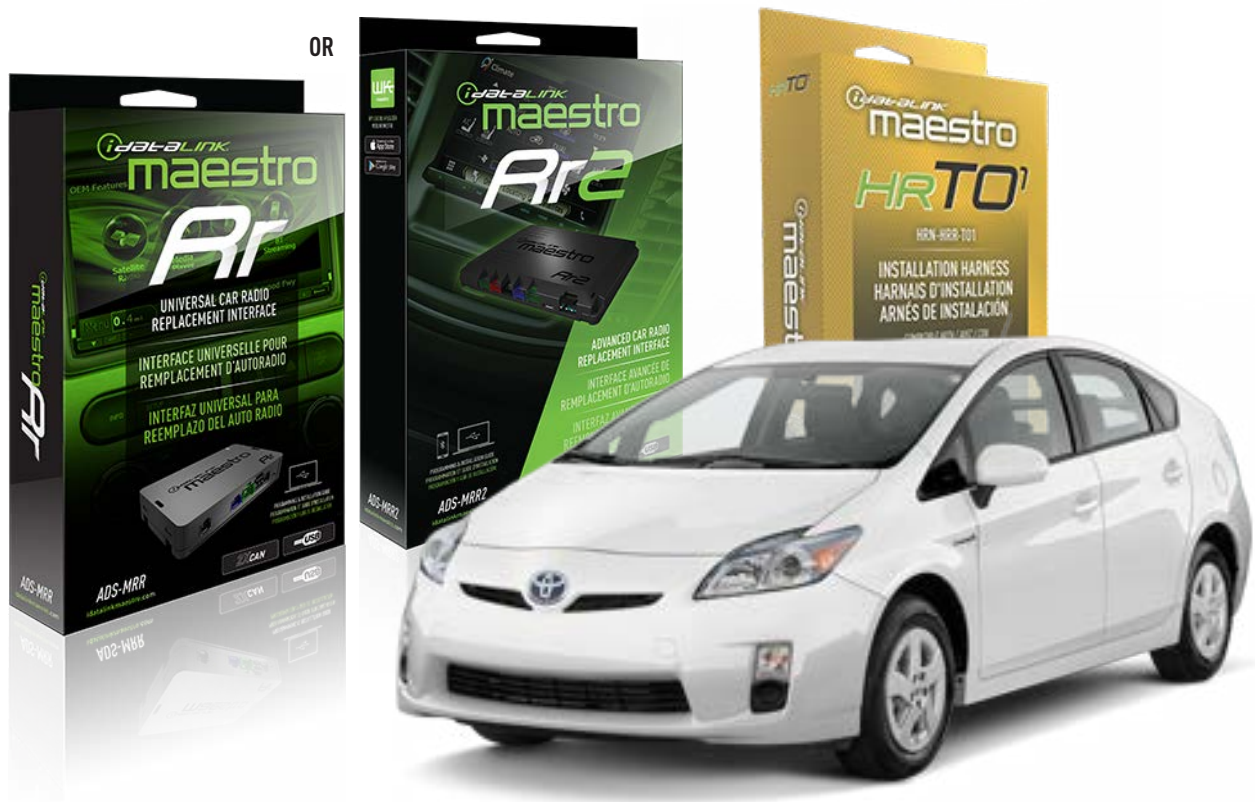
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ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

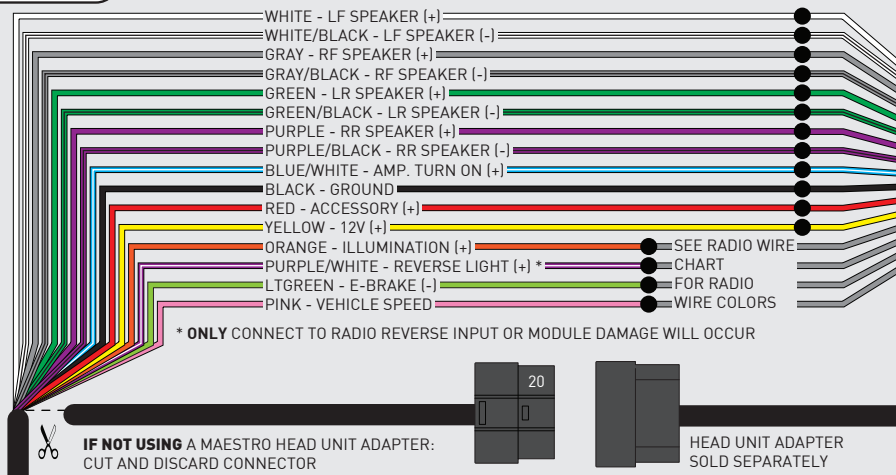
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

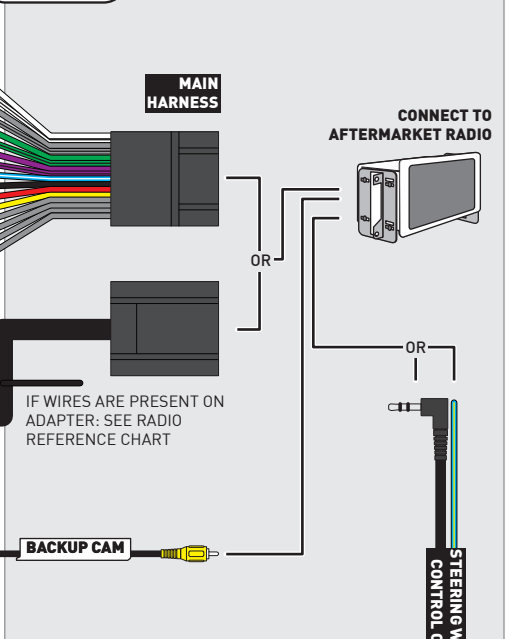
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

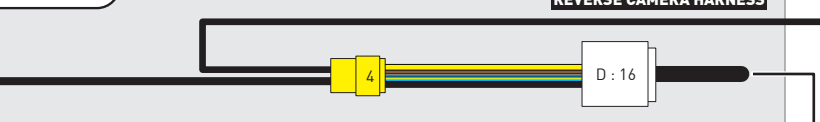
## STEP 1



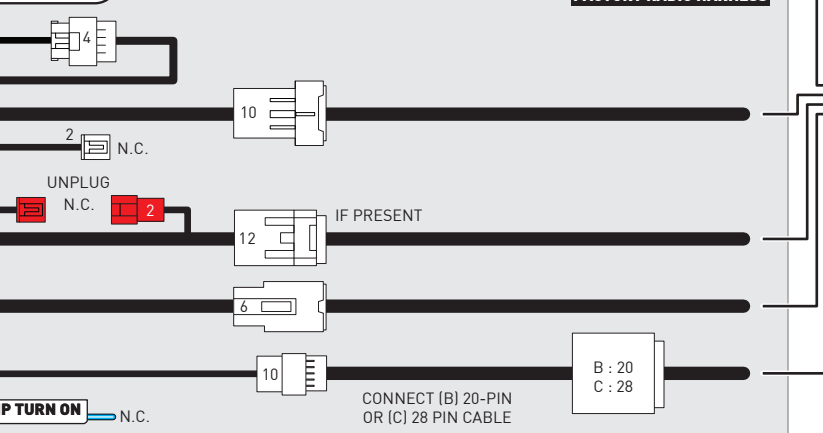
## STEP 5



## STEP 2



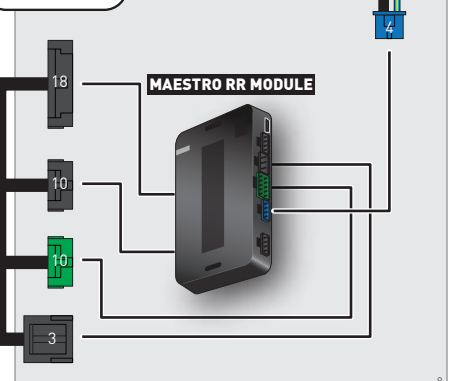
## STEP 3



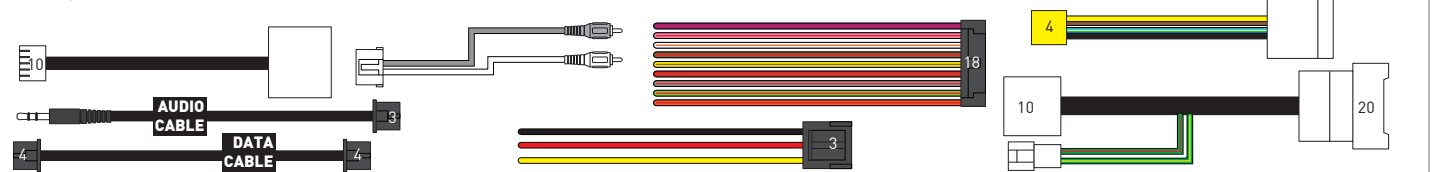
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
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<a href="#">VIDEO HELP</a>		Installation, product information, vehicle specific videos.
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PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1



# 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.**

# NEED HELP?

 1 866 427-2999

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

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Wiring Diagram	4
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

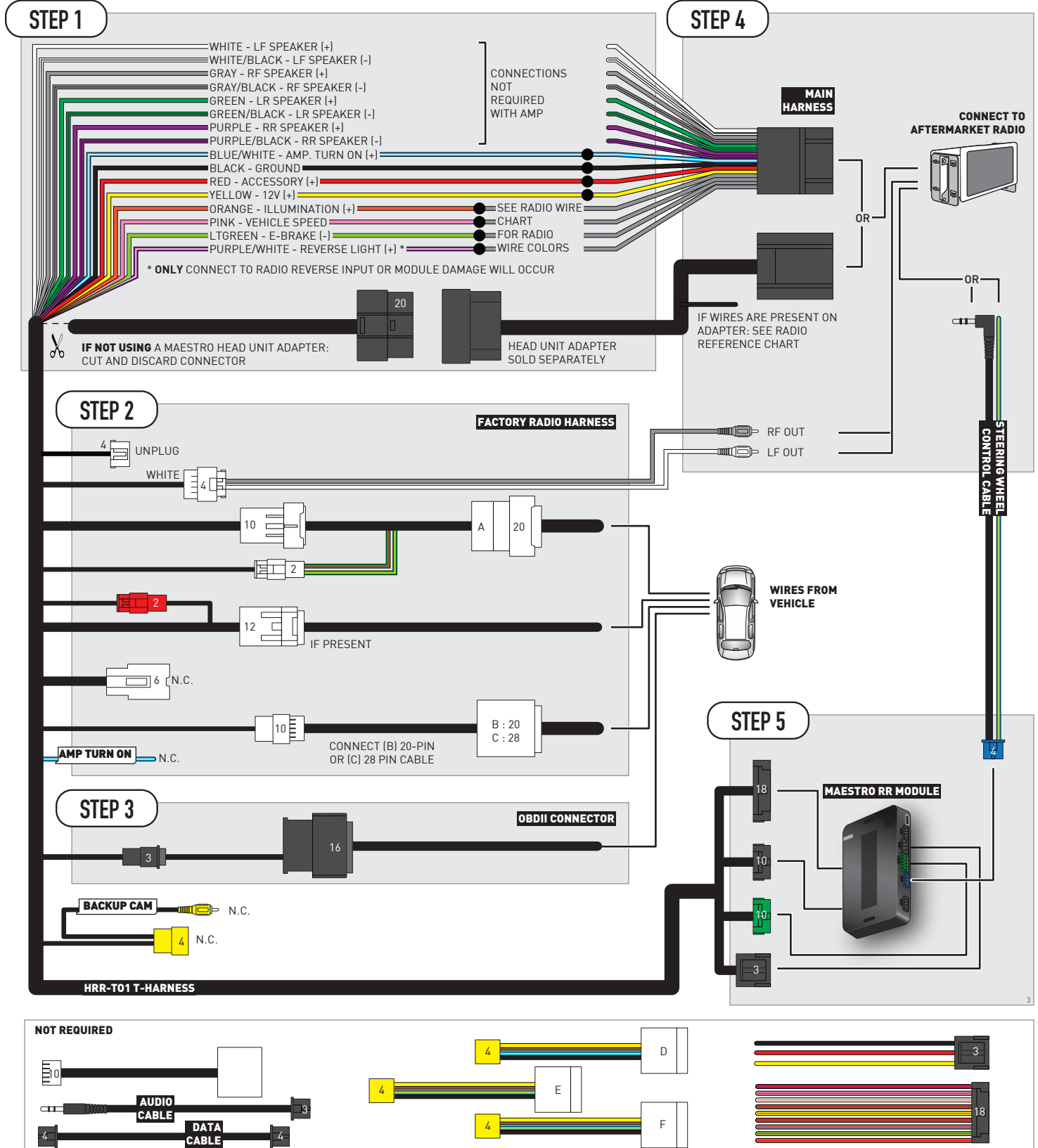
## STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

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2006-2011  
TOYOTA RAV 4  
WITHOUT JBL

**RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!**



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iDatalink Maestro HRR-T01 Installation Harness

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ADS-RR(SR)-TOY01-AS

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#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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#### ADDITIONAL RESOURCES

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

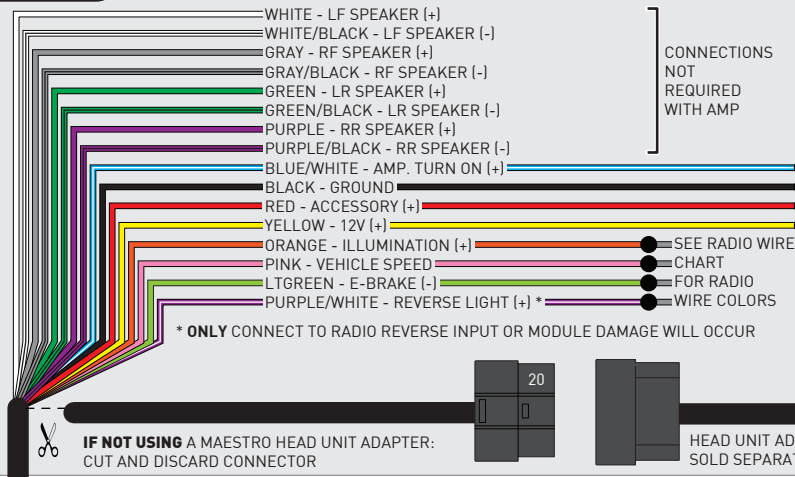
## STEP 6

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

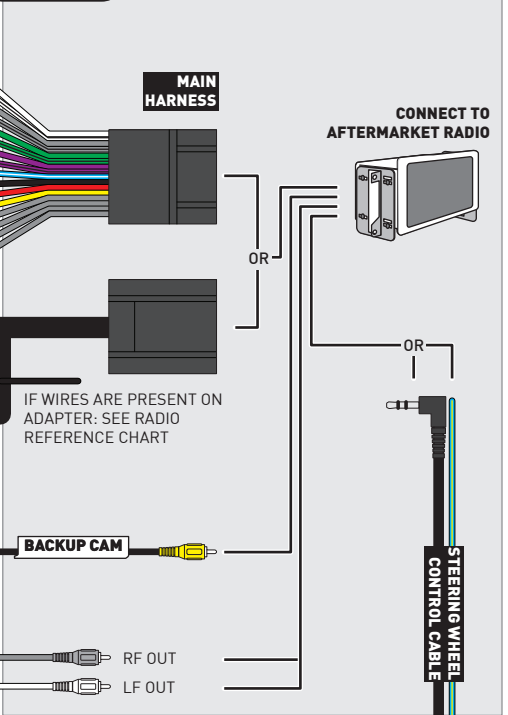


# WIRING DIAGRAM *with an Amplifier*

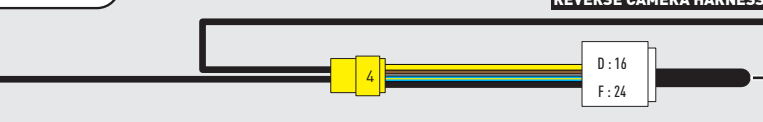
## STEP 1



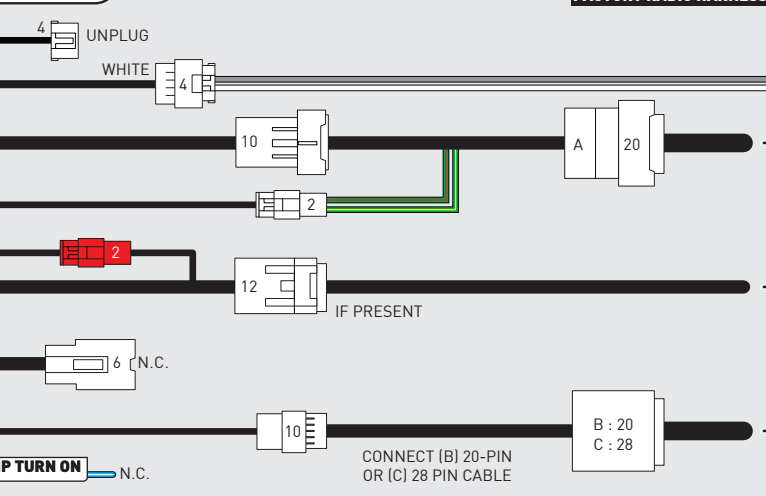
## STEP 5



## STEP 2



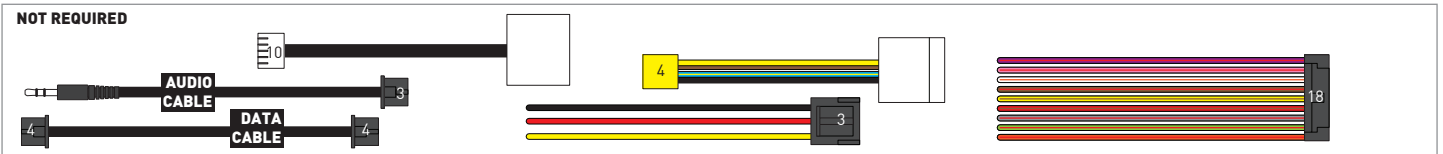
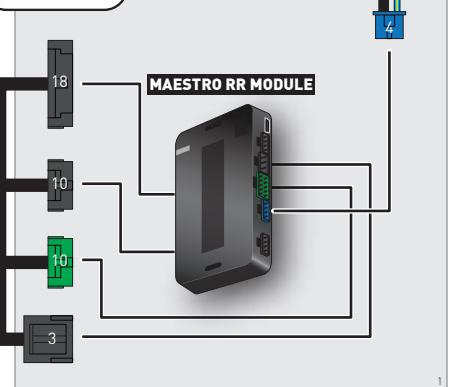
## STEP 3



## STEP 4



## STEP 6



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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iDatalink Maestro HRR-T01 Installation Harness

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ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.


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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

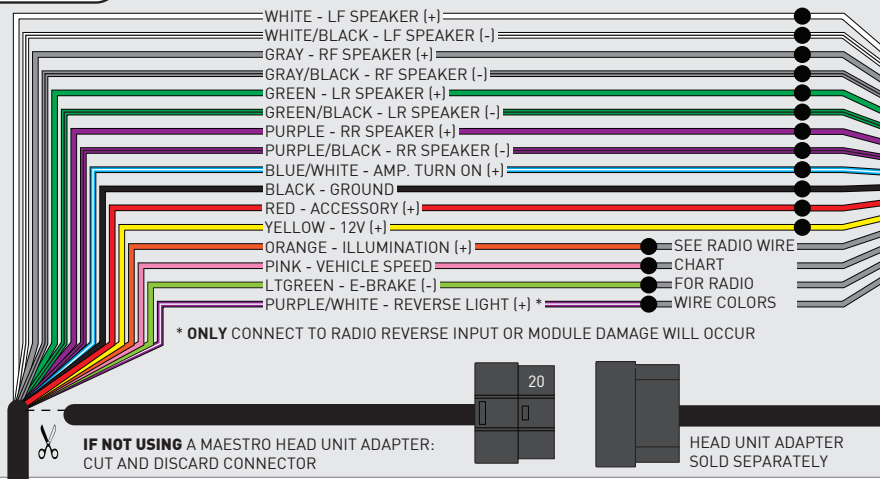
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

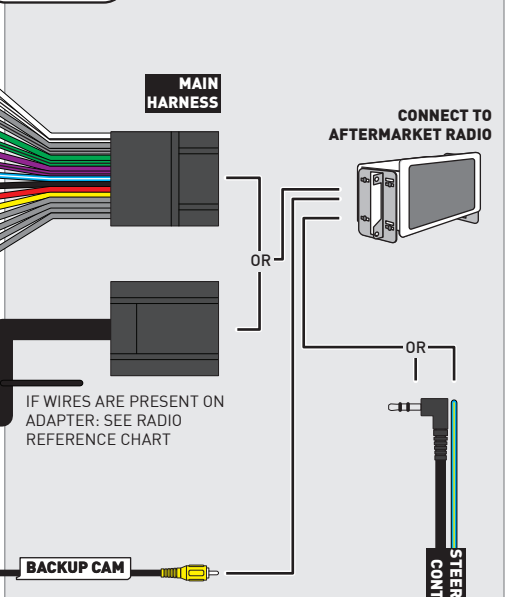
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

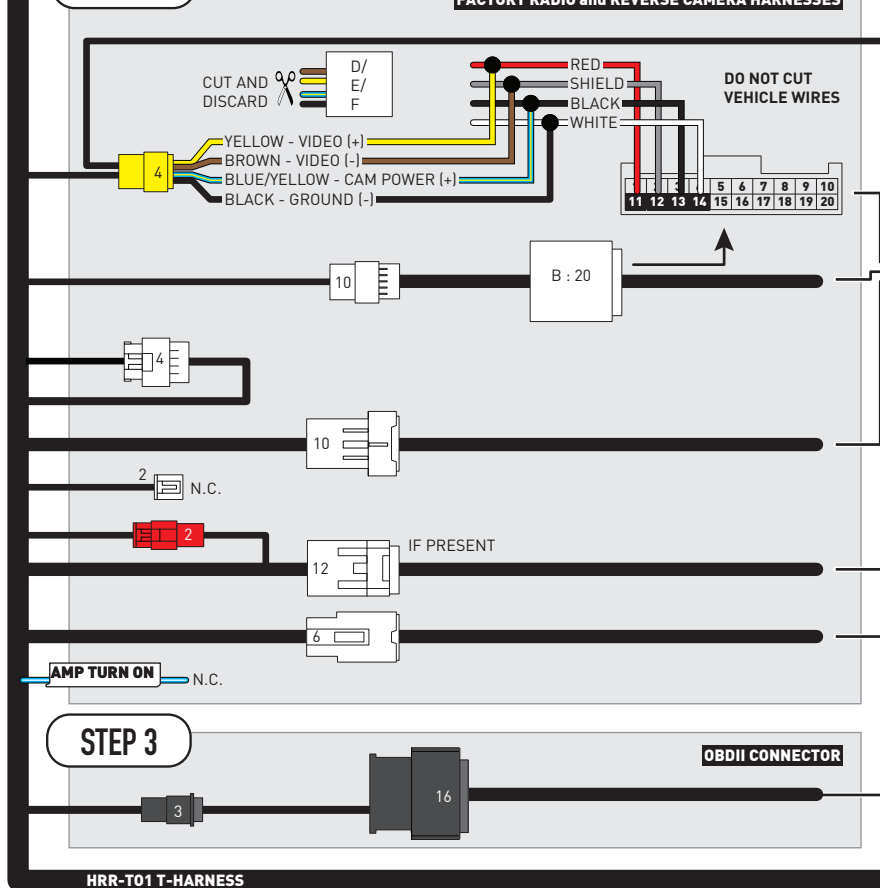
## STEP 1



## STEP 4



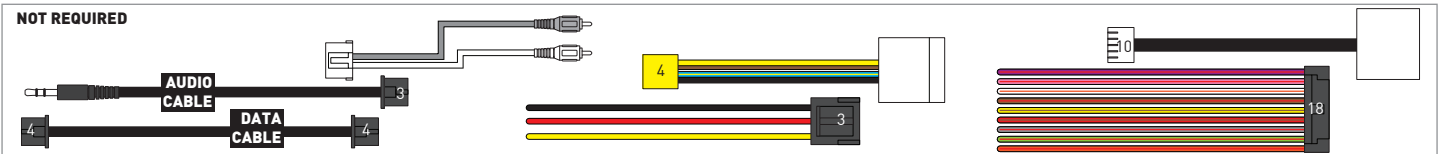
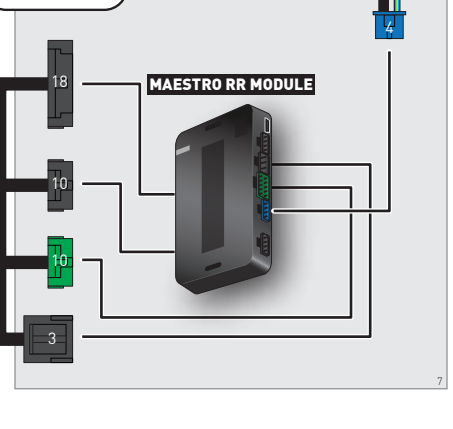
## STEP 2



## STEP 3



## STEP 5





# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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.**

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#### PROGRAMMED FIRMWARE

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**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

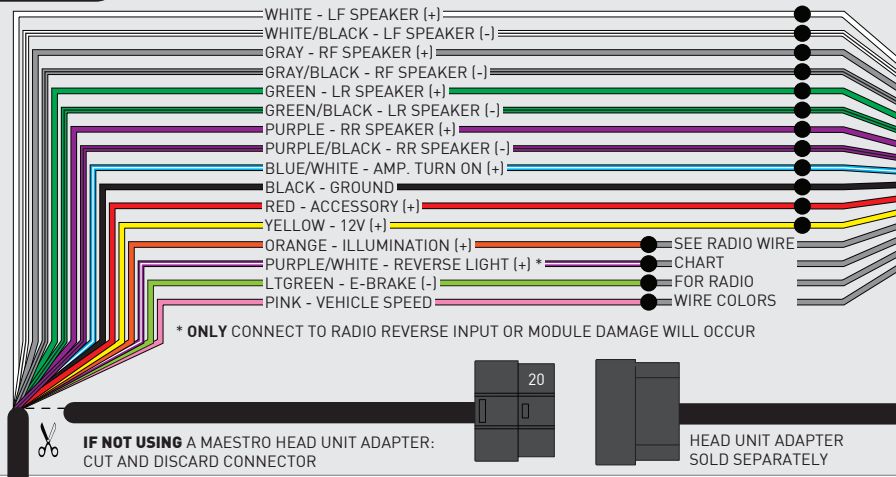
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

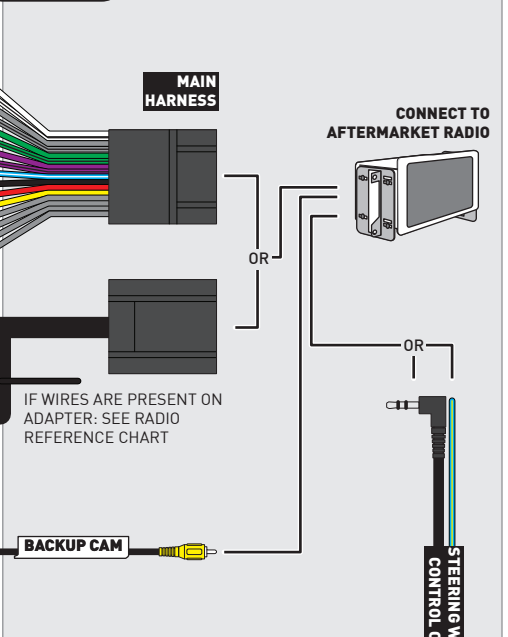
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

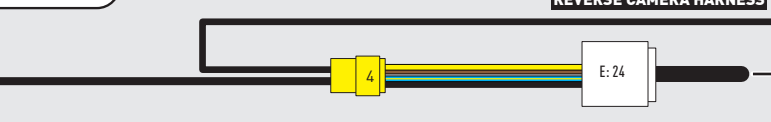
## STEP 1



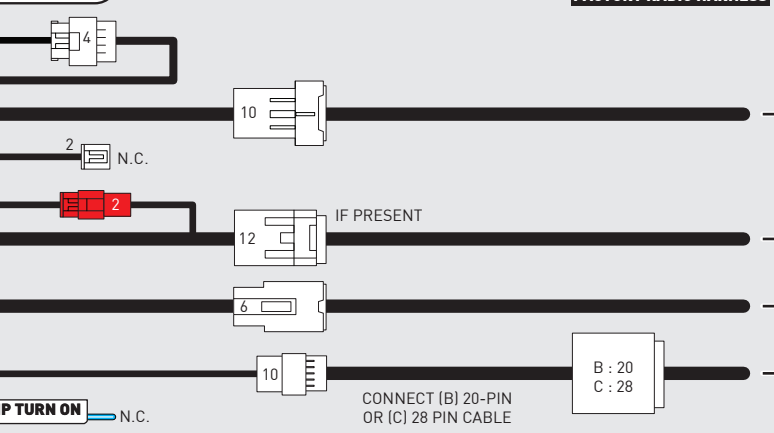
## STEP 5



## STEP 2



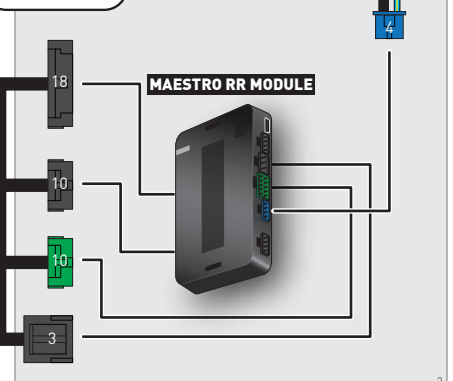
## STEP 3



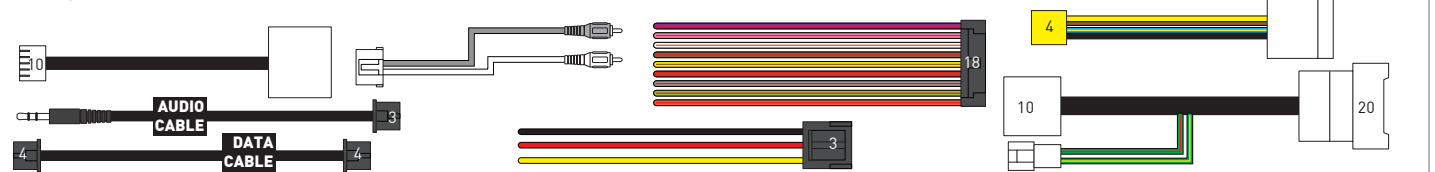
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio








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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

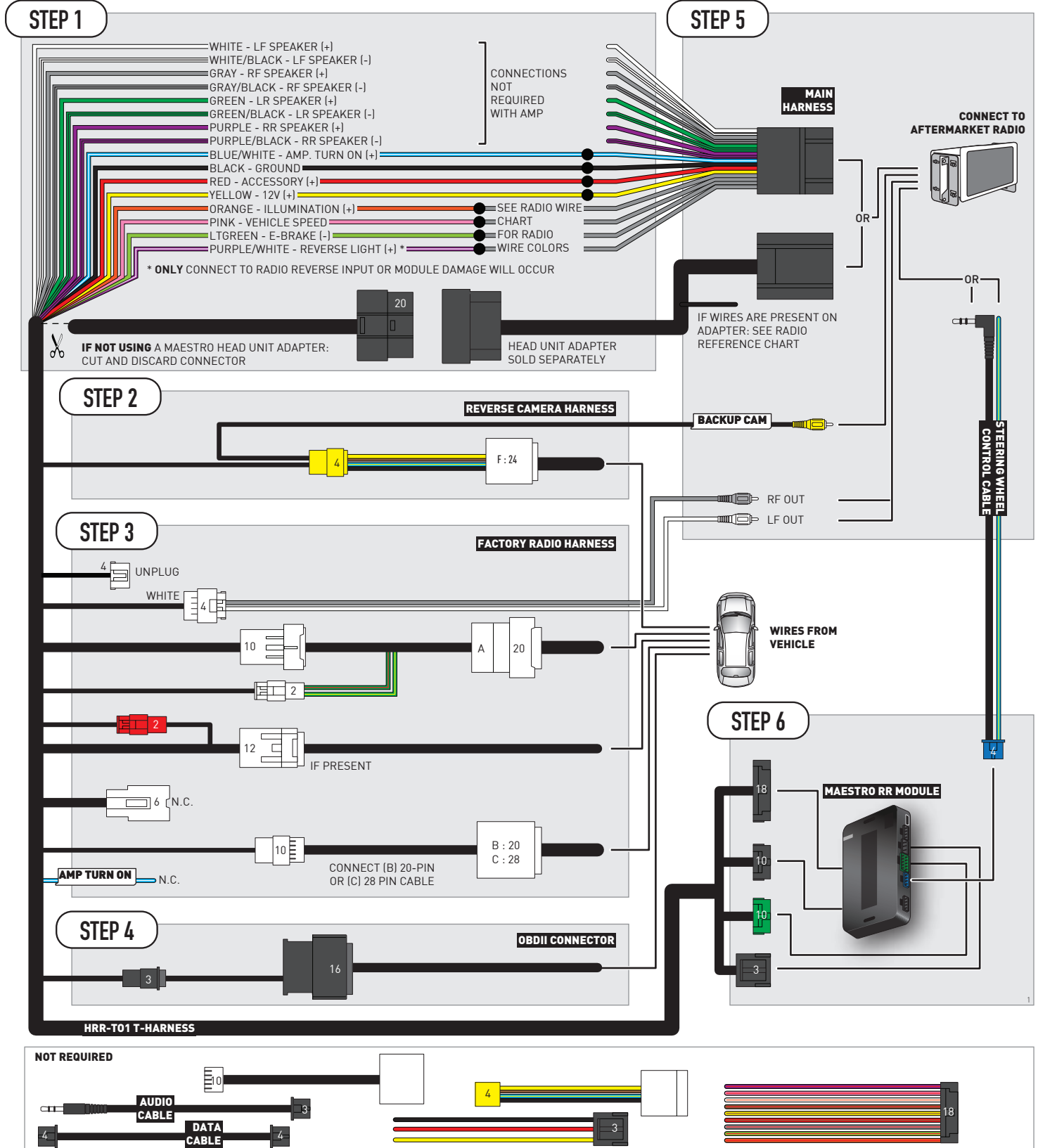
## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to parking assist ECU harness, as shown in wiring diagram.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

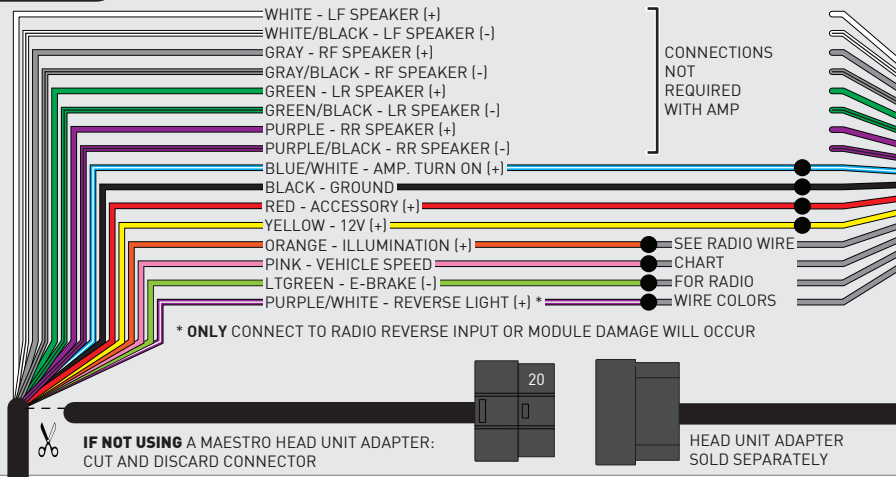
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

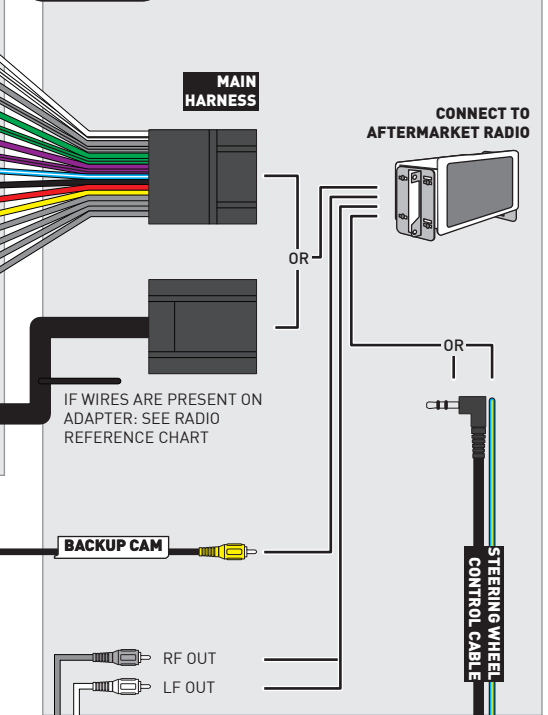
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

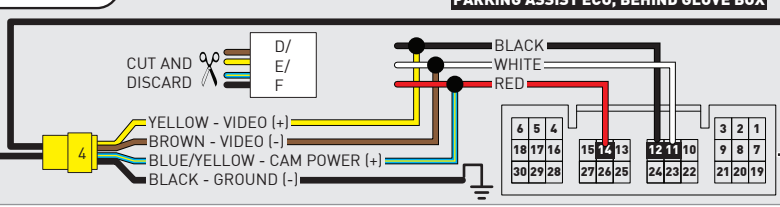
## STEP 1



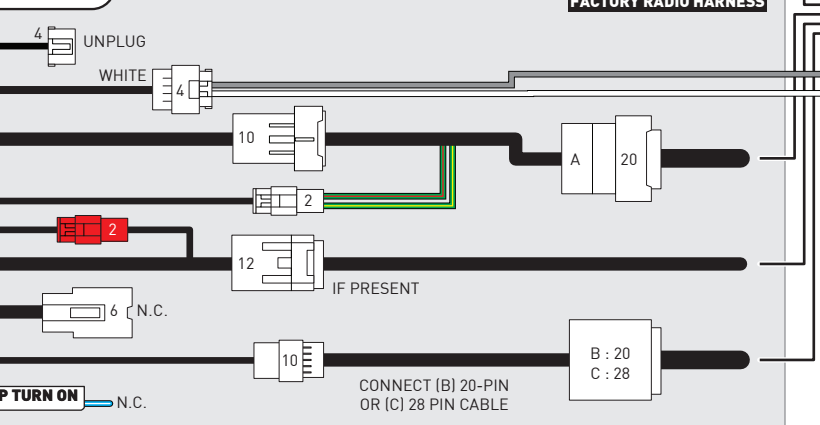
## STEP 5



## STEP 2



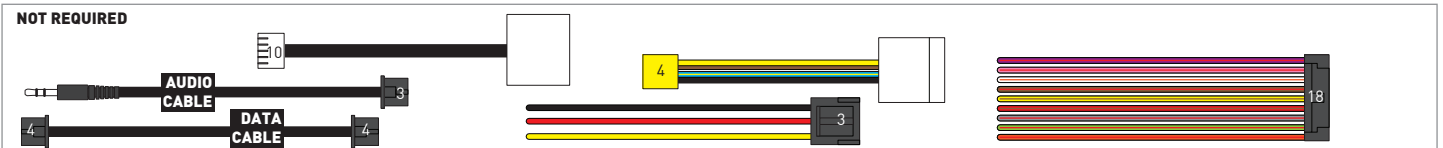
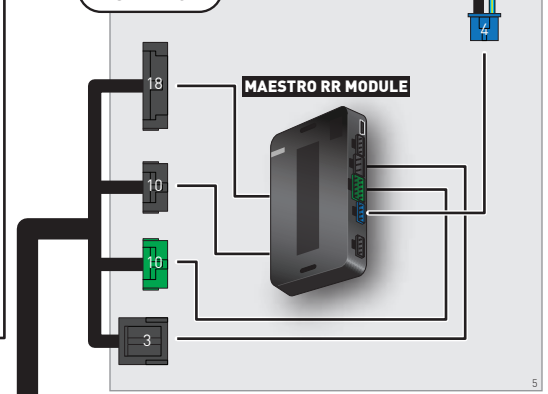
## STEP 3



## STEP 4



## STEP 6



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

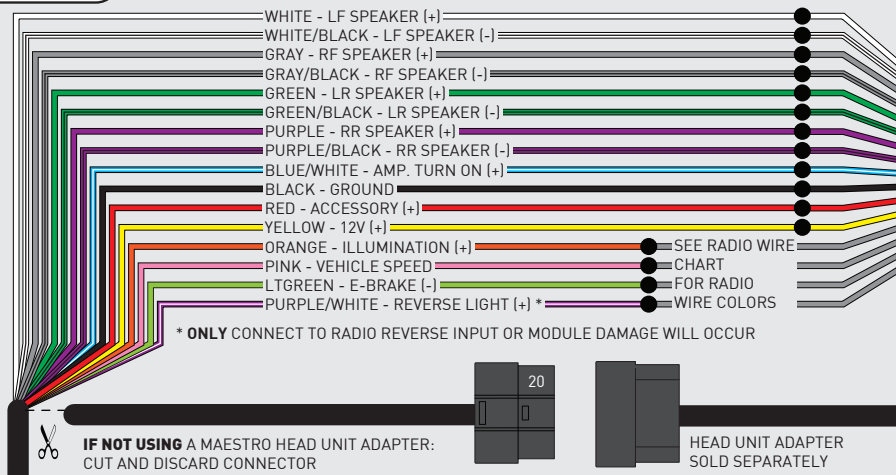
- Plug the harnesses into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

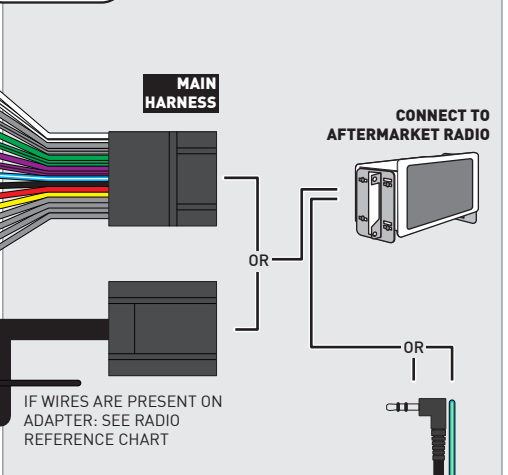
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

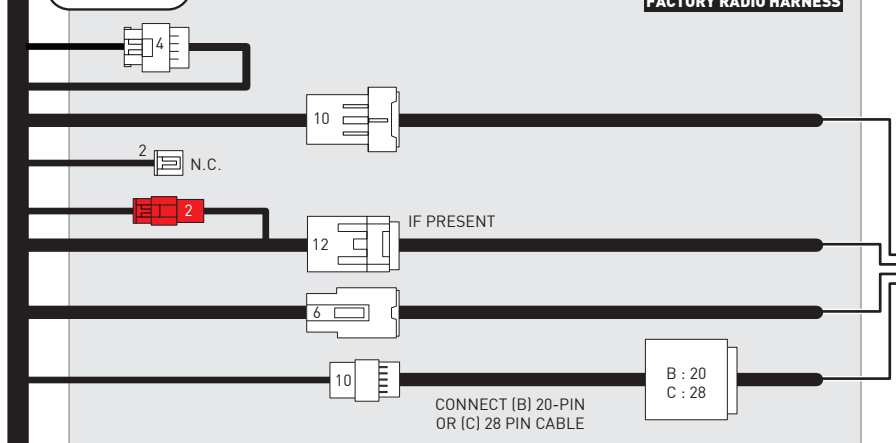
## STEP 1



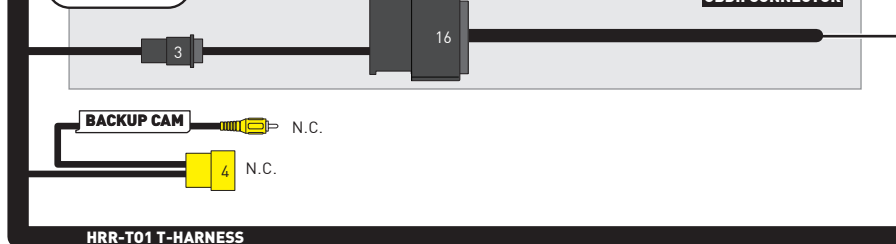
## STEP 4



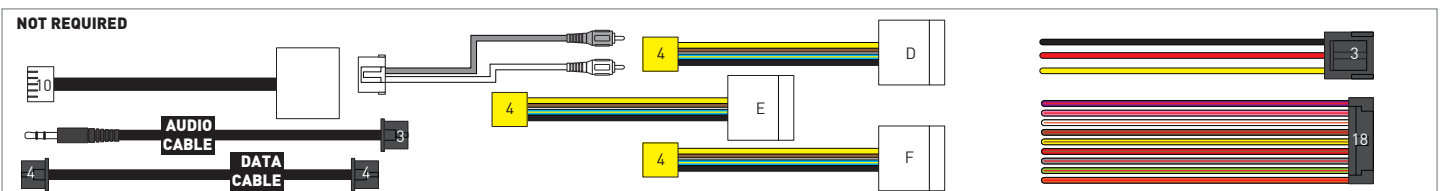
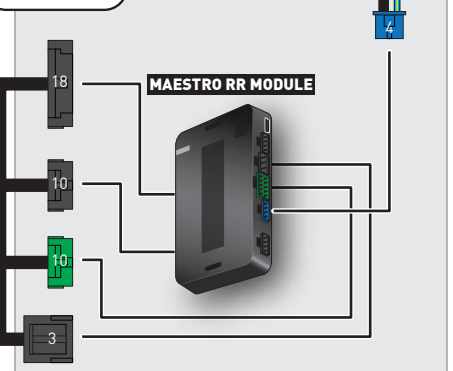
## STEP 2



## STEP 3



## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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
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Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
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# INSTALLATION INSTRUCTIONS P1/1

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**If using head unit adapter (sold separately), connect HRR-T01 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

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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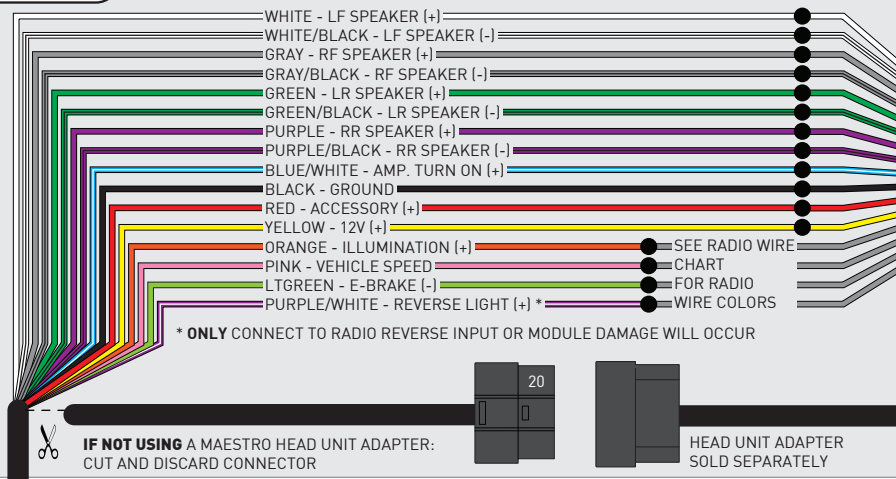
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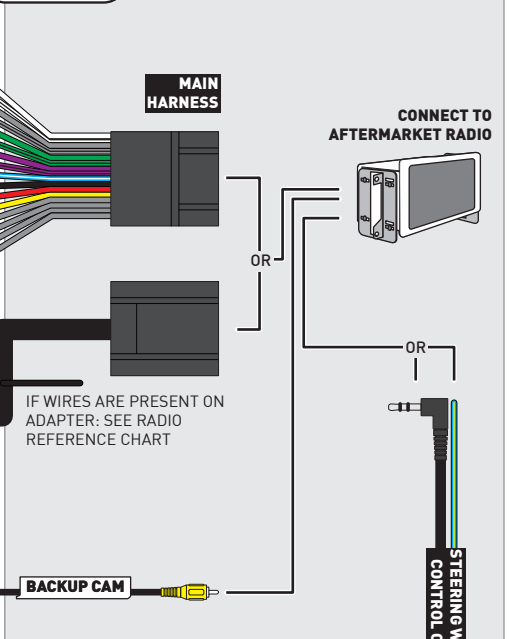
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# WIRING DIAGRAM *without an Amplifier*

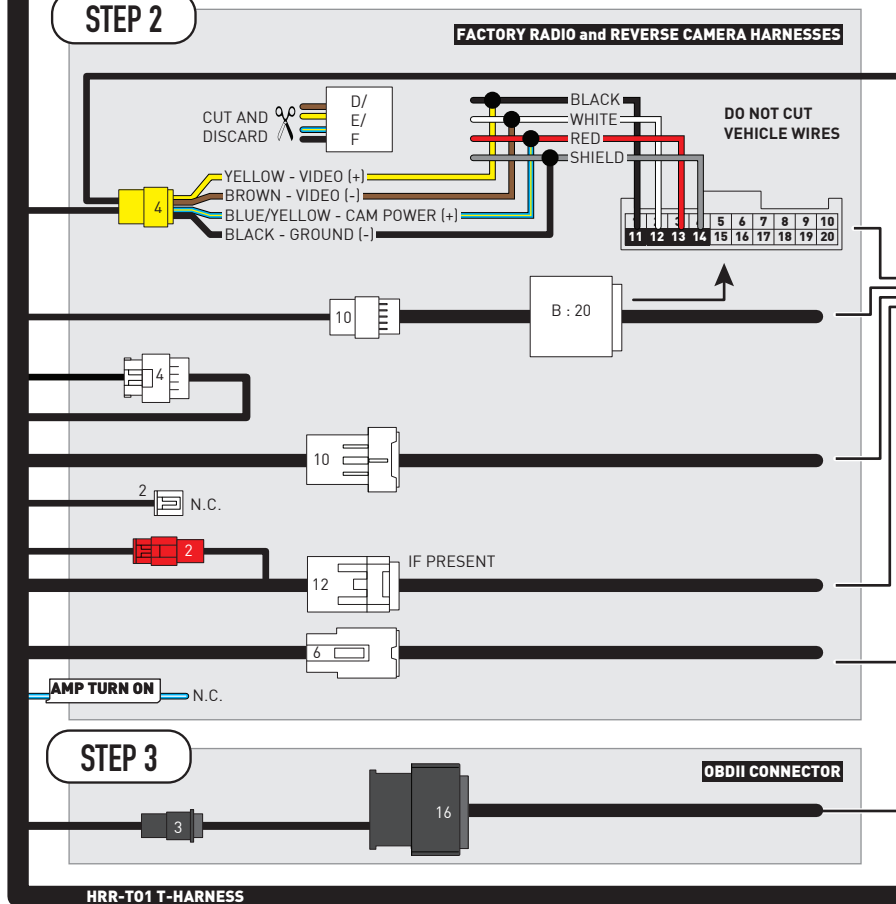
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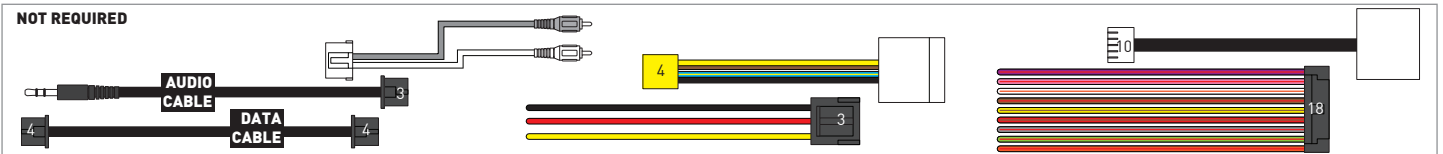
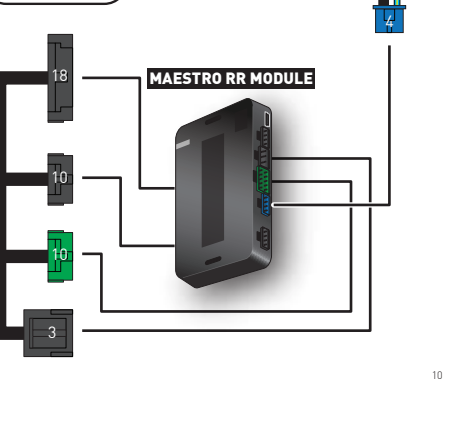
## STEP 4



## STEP 2



## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# WELCOME

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

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

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

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Installation Instructions	3
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

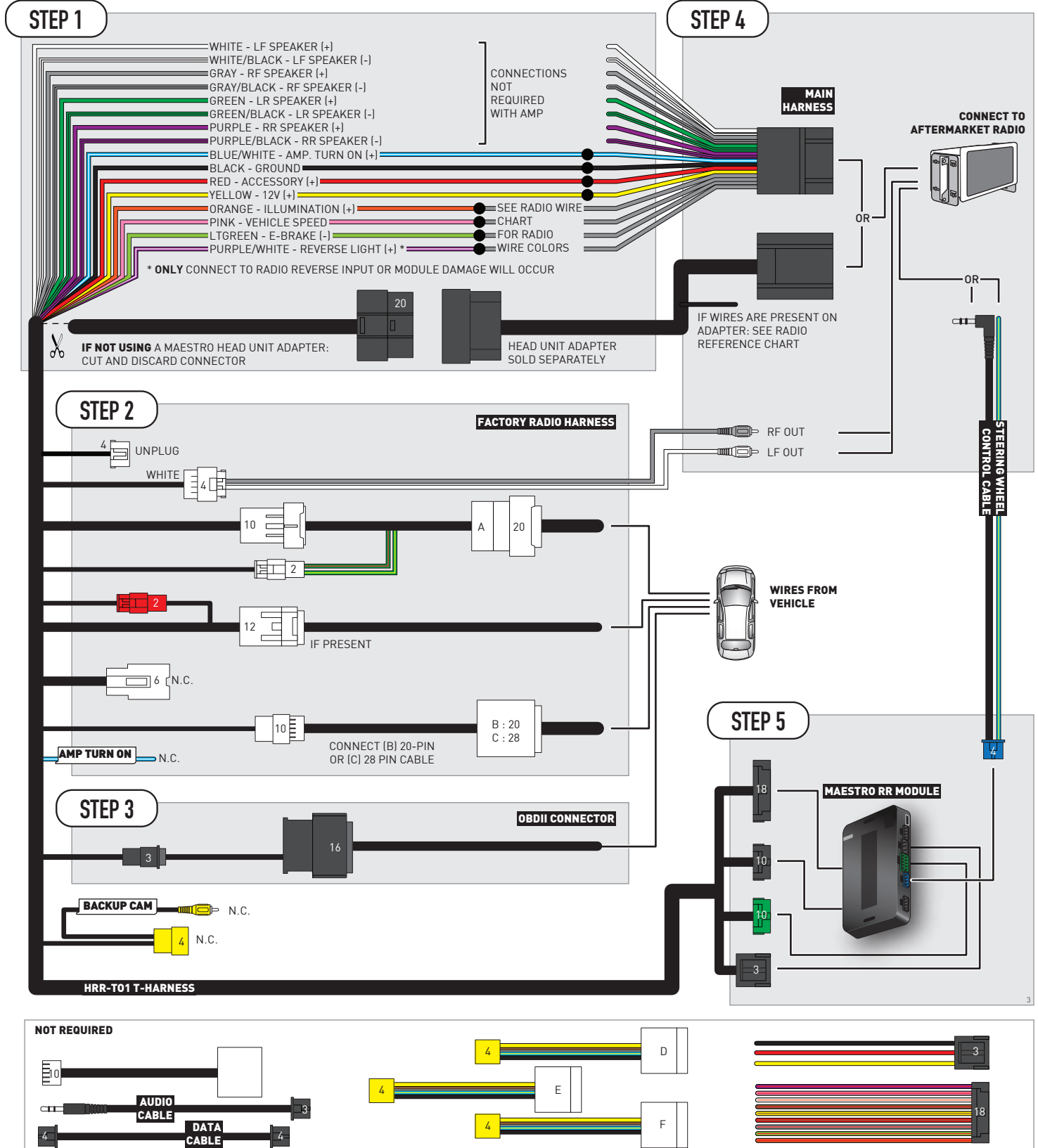
## STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).  
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Phone: 1-866-427-2999

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#### ADDITIONAL RESOURCES

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**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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

 [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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

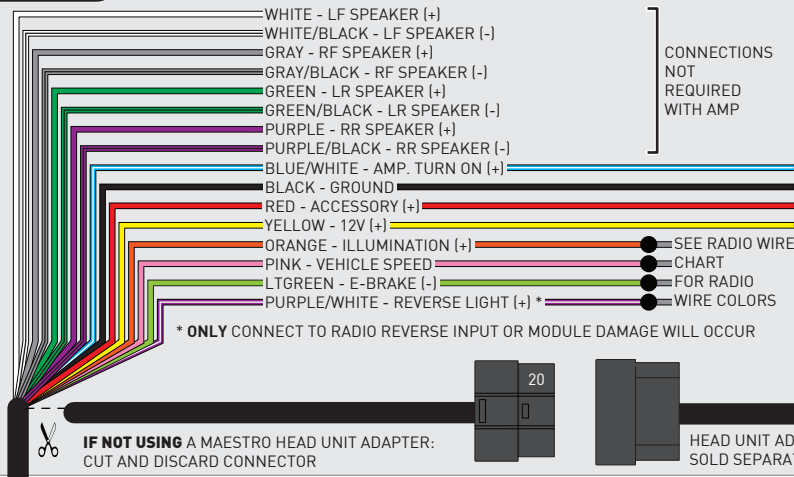
## STEP 6

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

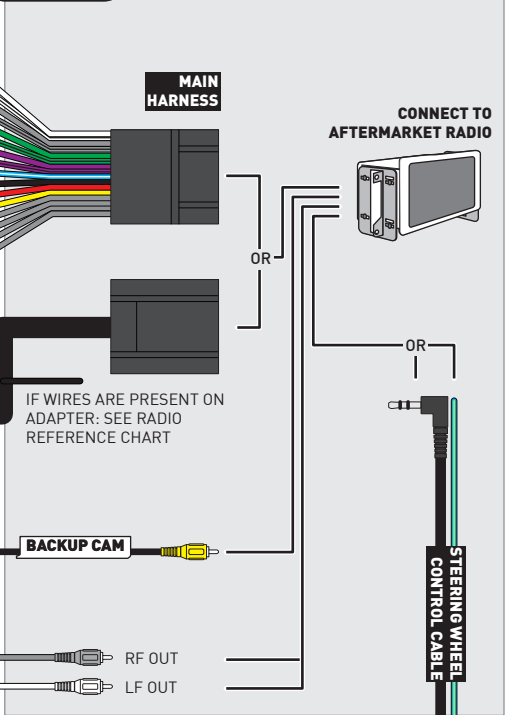


# WIRING DIAGRAM *with an Amplifier*

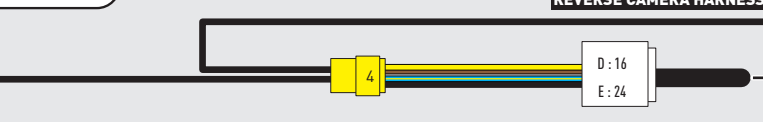
## STEP 1



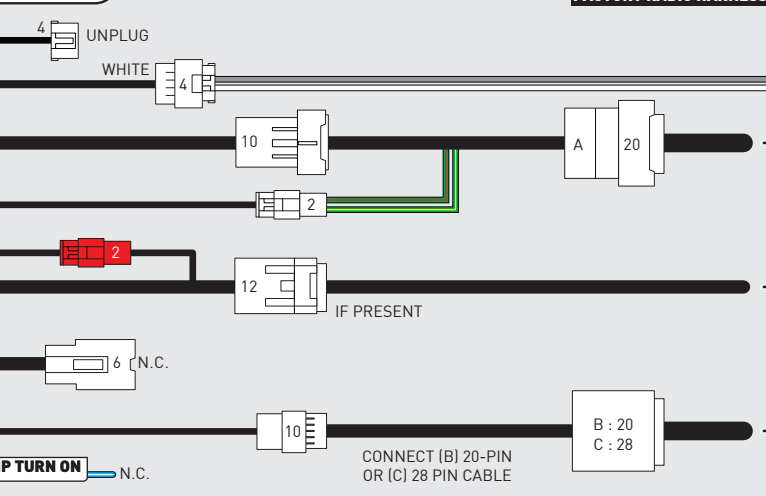
## STEP 5



## STEP 2



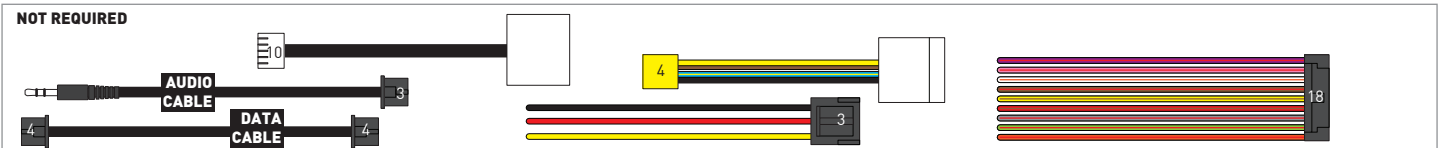
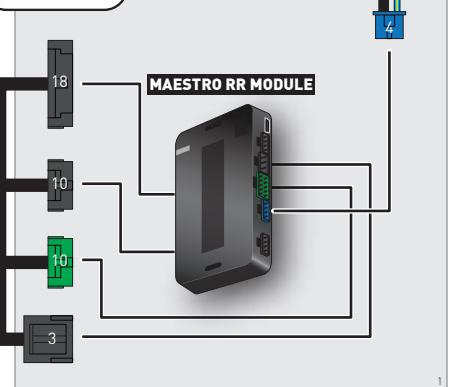
## STEP 3



## STEP 4



## STEP 6



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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





# RADIO WIRE REFERENCE CHART

T01 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
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
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\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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## TABLE OF CONTENTS

Installation Instructions	3
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

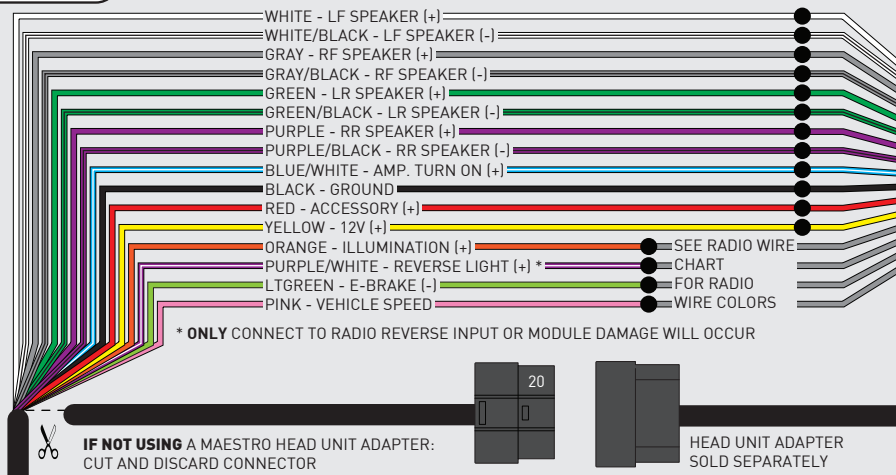
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

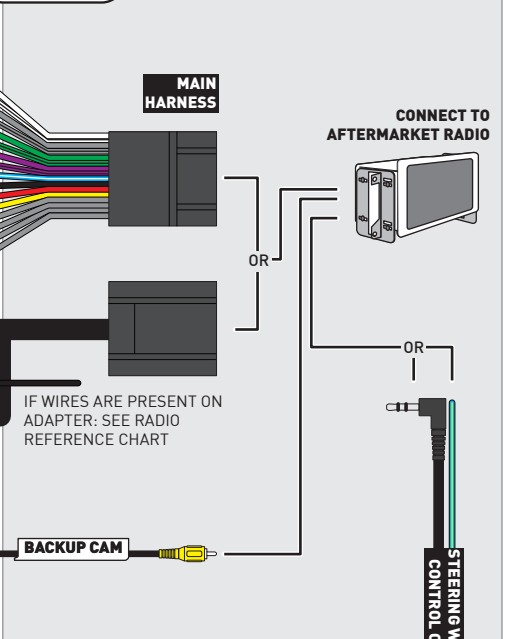
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

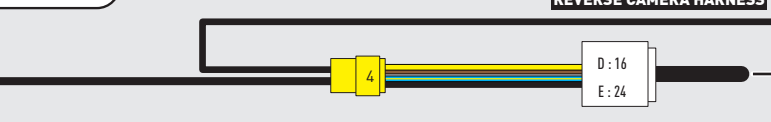
## STEP 1



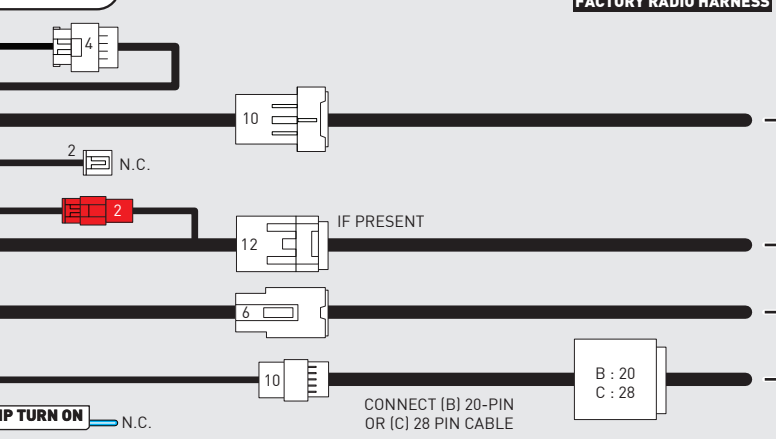
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## STEP 2



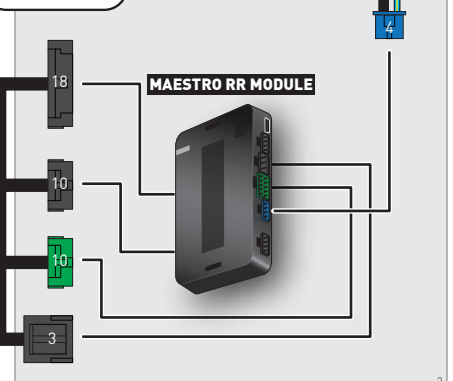
## STEP 3



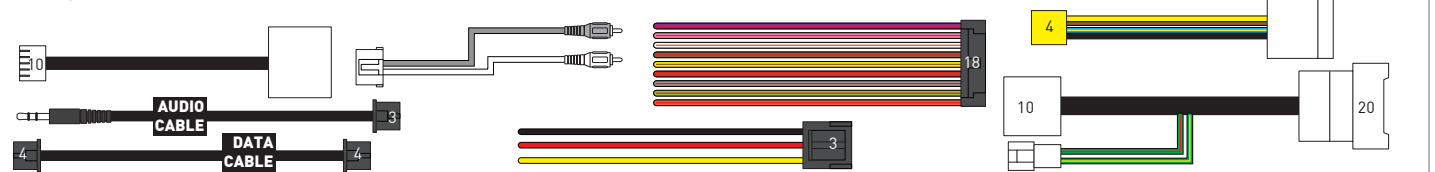
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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.**

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**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

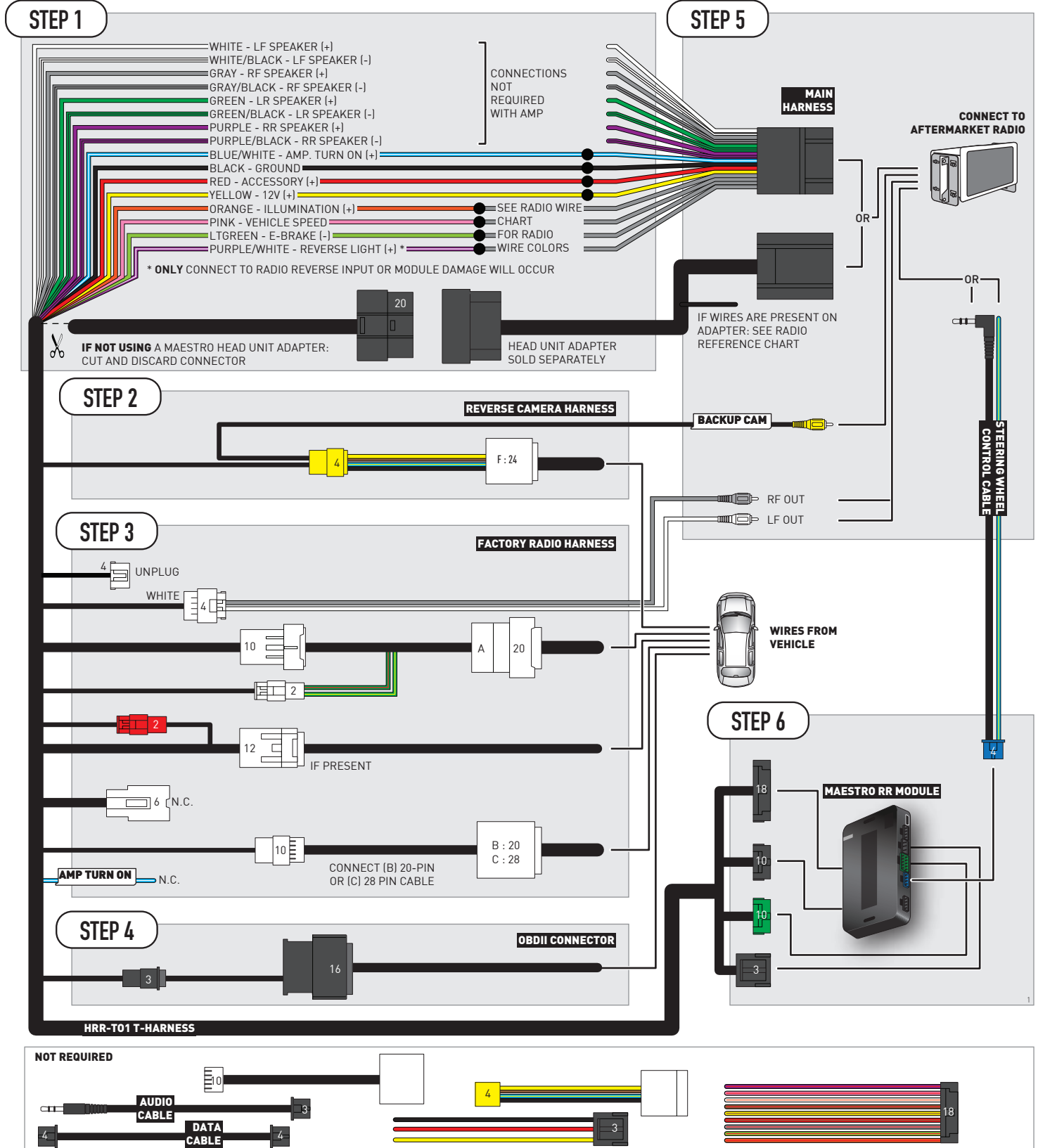
## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.  
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 [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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

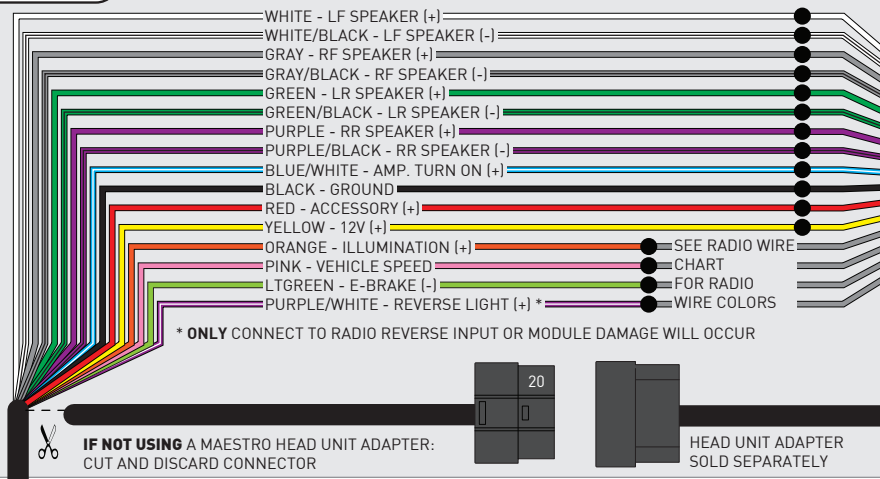
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

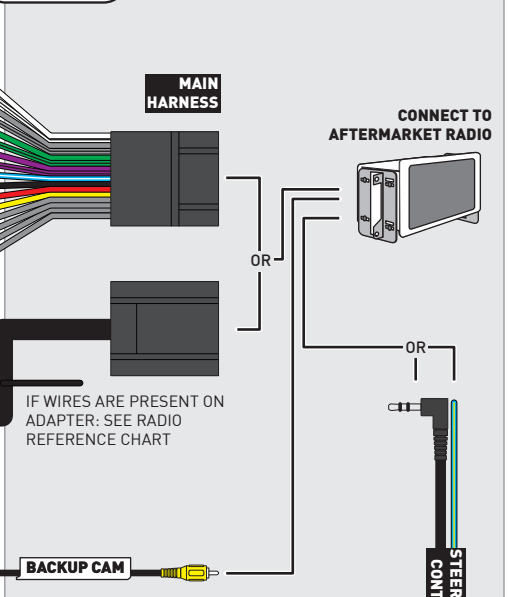
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

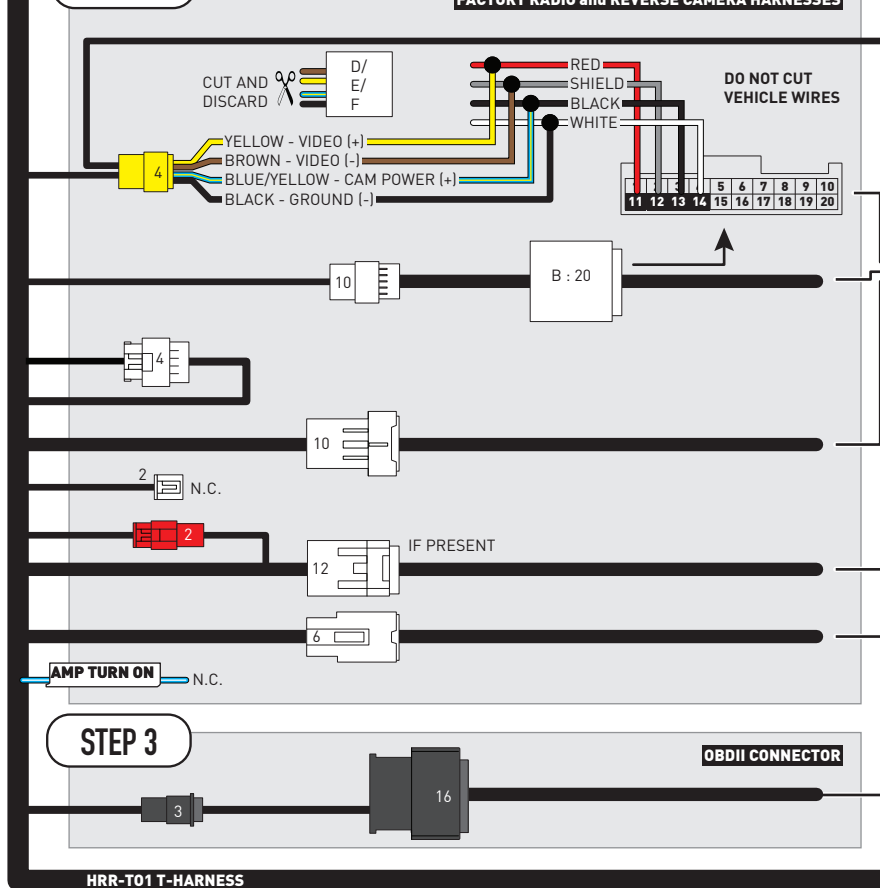
## STEP 1



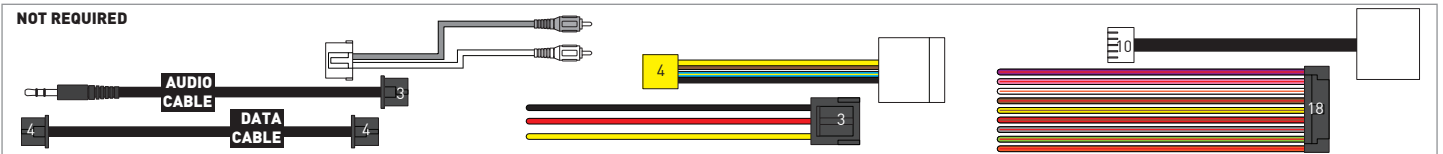
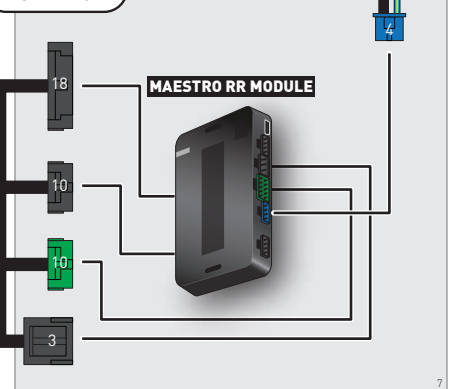
## STEP 4



## STEP 2



## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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iDataLink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1


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# NEED HELP?

 1 866 427-2999

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Installation Instructions	3
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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

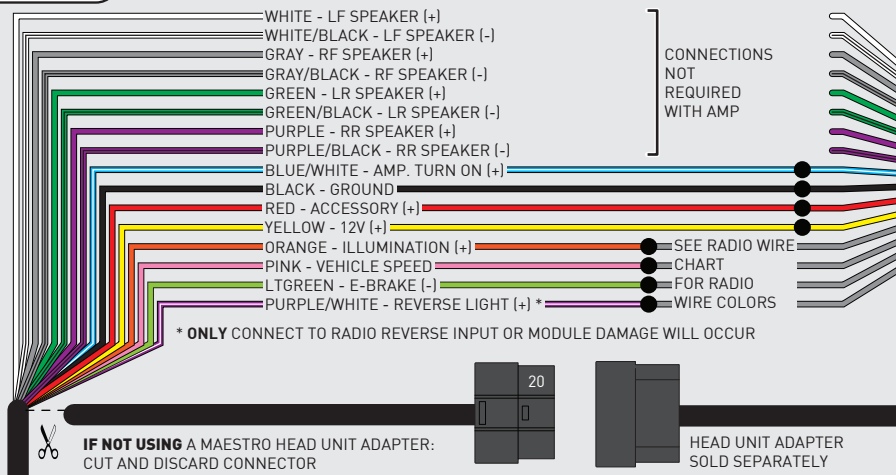
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 6

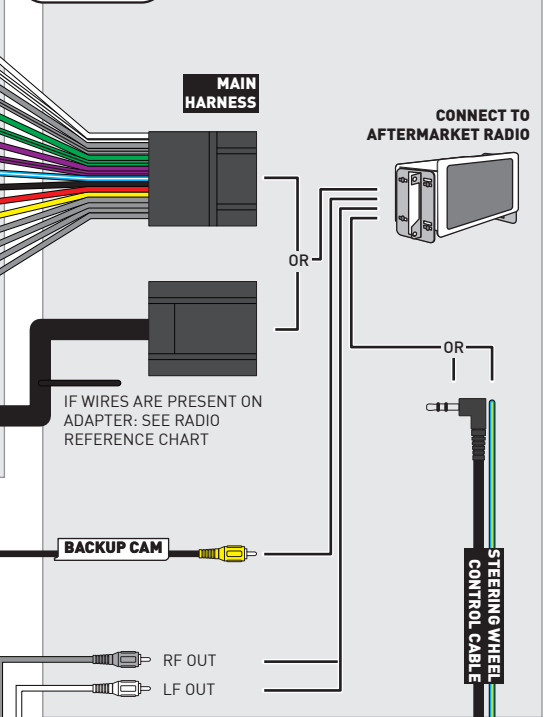
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

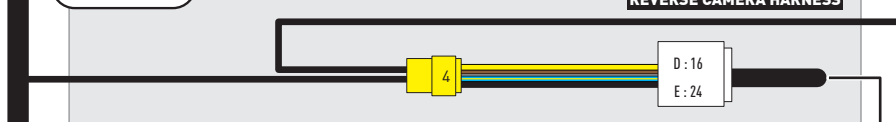
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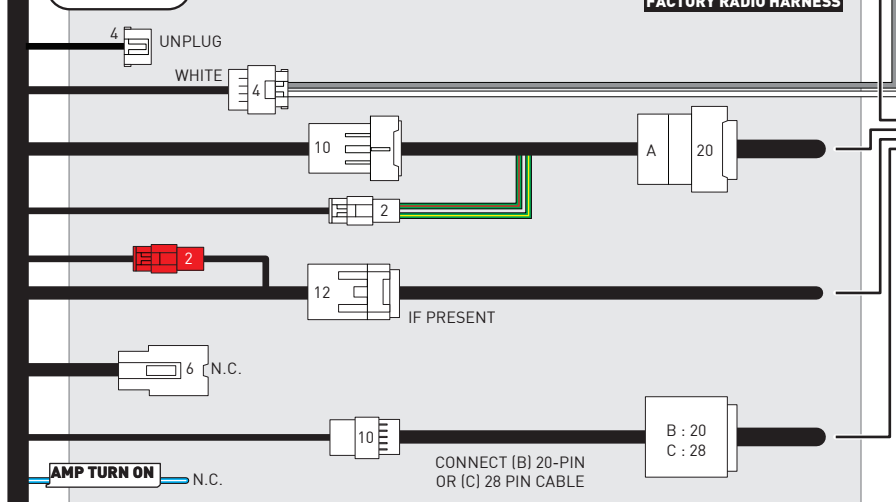
## STEP 5



## STEP 2



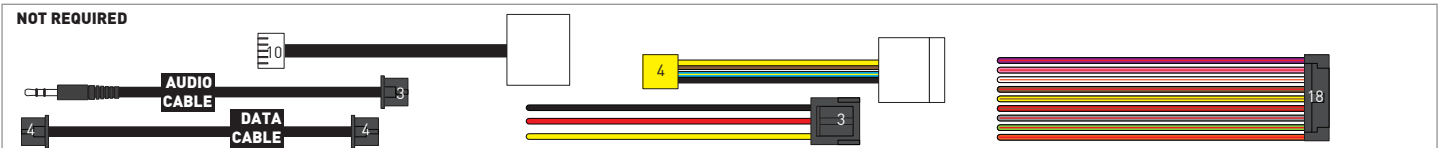
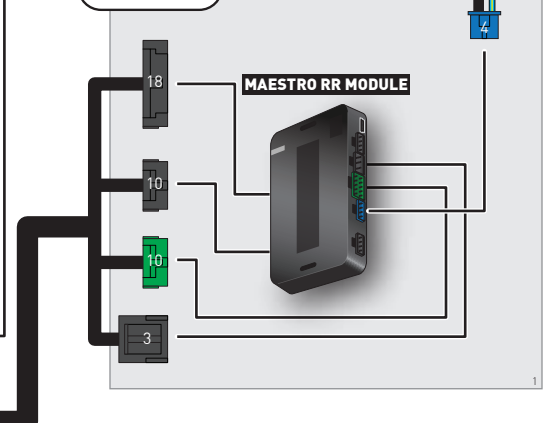
## STEP 3



## STEP 4



## STEP 6



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1



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

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

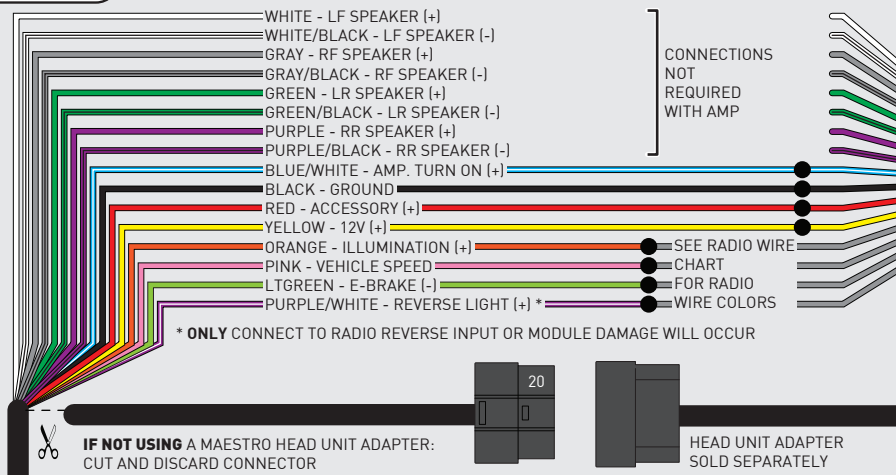
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

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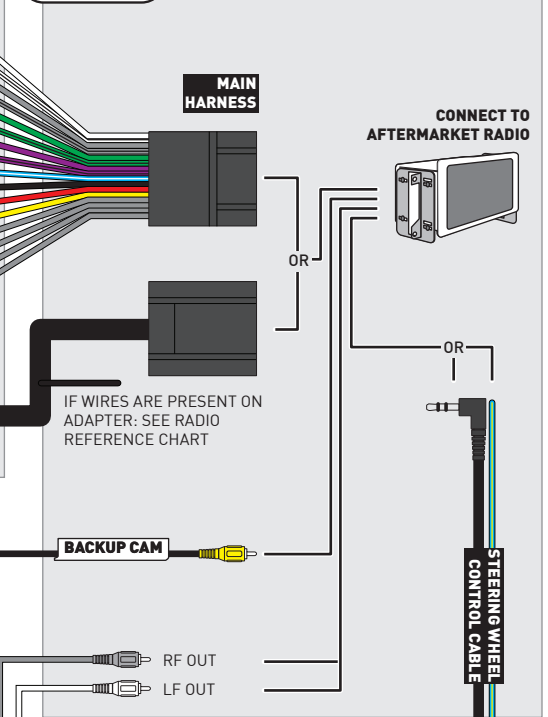
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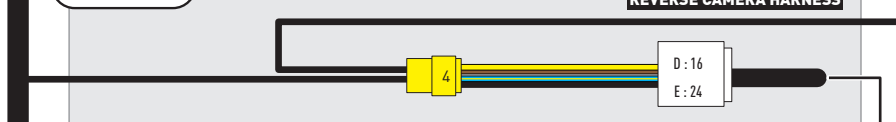
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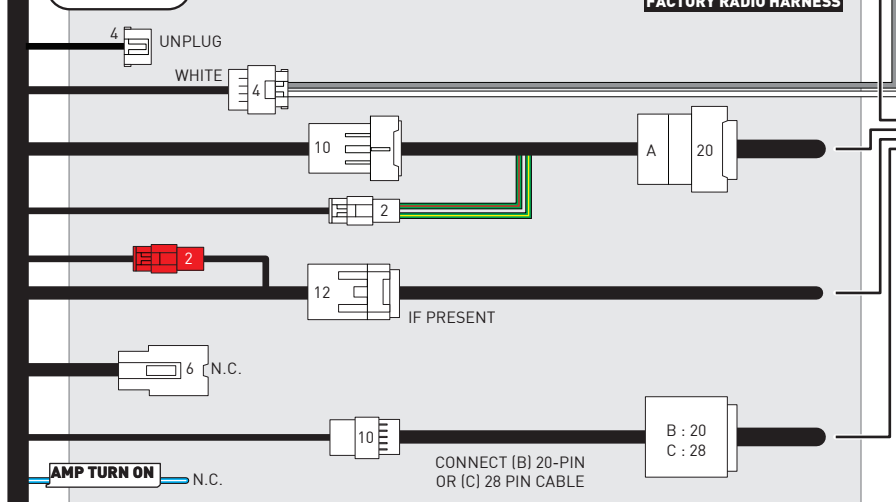
## STEP 5



## STEP 2



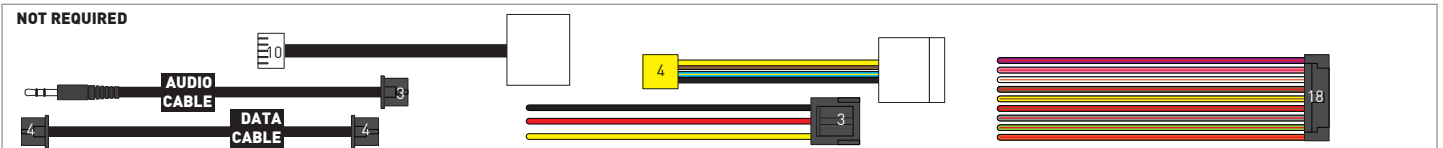
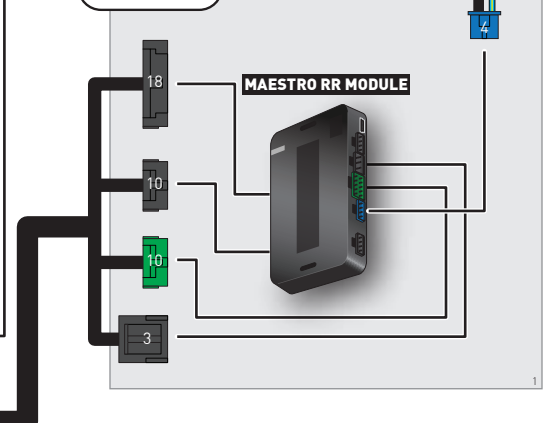
## STEP 3



## STEP 4



## STEP 6



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
●		1 GREEN flash	After radio boots up : Normal operation.
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<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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**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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

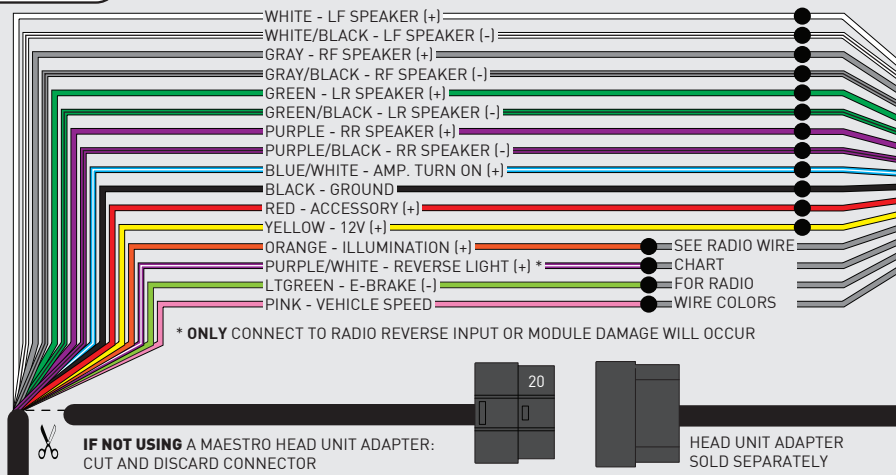
## STEP 6

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

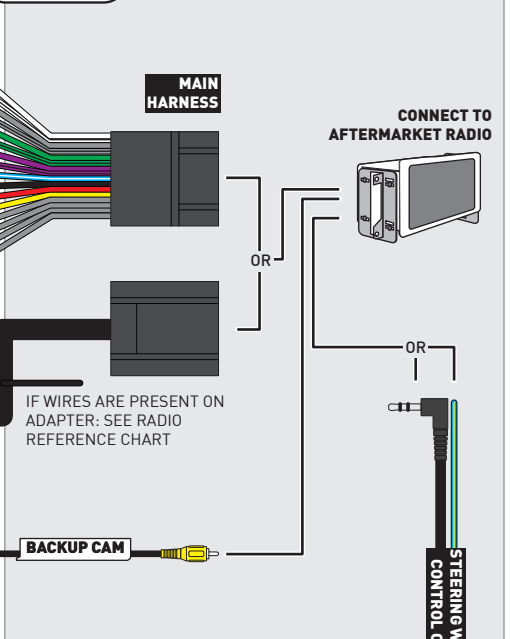


# WIRING DIAGRAM *without an Amplifier*

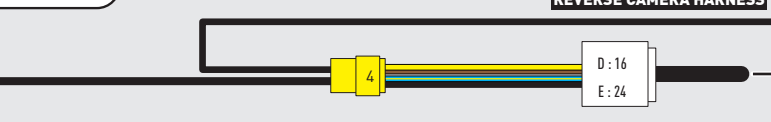
## STEP 1



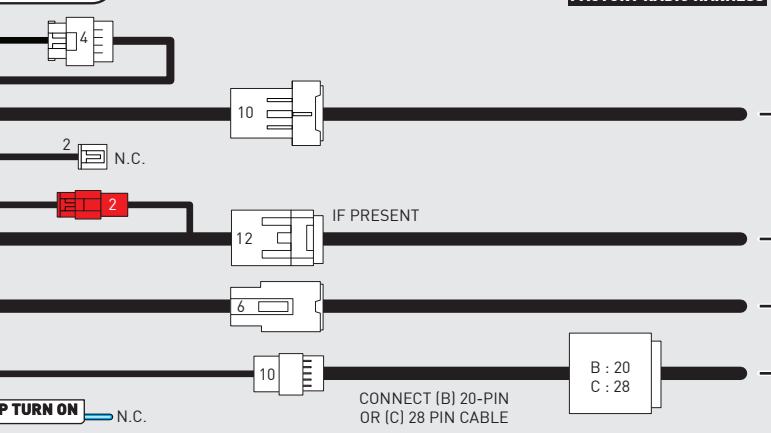
## STEP 5



## STEP 2



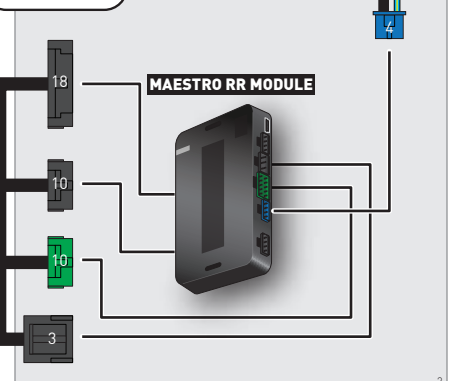
## STEP 3



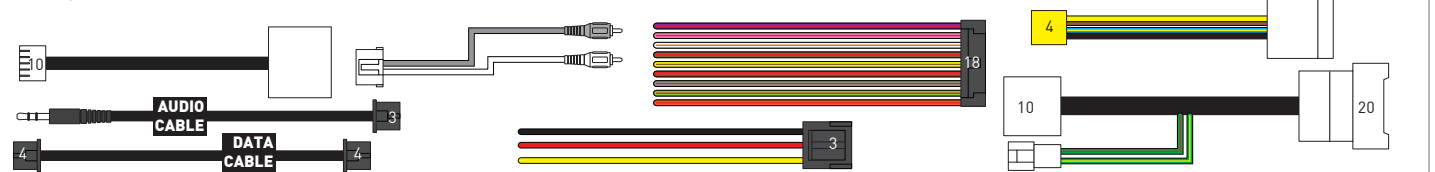
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-AS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**HEAD UNIT ADAPTER:**  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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

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 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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





# RADIO WIRE REFERENCE CHART

T01 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	Connect if no iDatalink 4-pin port on radio

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	Connect if no iDatalink 4-pin port on radio

\* 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.
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PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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 steering wheel control cable into the aftermarket radio (blue/yellow wire Kenwood/JVC only) OR (3.5mm jack to the radio's steering wheel input).

## STEP 5

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



# RADIO WIRE REFERENCE CHART

T01 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
CAM	(-)	Green/White	Refer to camera/radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	Connect if no iDatalink 4-pin port on radio








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	Connect if no iDatalink 4-pin port on radio




\* 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.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	<p>Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both.</p> <p>Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used.</p> <p>Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button.</p> <p>Refer to radio's owner's manual to verify if the radio has this function:</p> <ul style="list-style-type: none"> <li>• JVC/Kenwood : Steering Wheel Control (ON/OFF): choose ON</li> <li>• Nakamichi : if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu.</li> <li>• Sony : Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu.</li> <li>• Other brands – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.</li> </ul>
Radio does not turn on.	<p>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> <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.</p>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>[Prius only]</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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.**



## 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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

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**K40**  
ELECTRONICS  
**ESCORT**

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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

## TABLE OF CONTENTS

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

# NEED HELP?

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 [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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

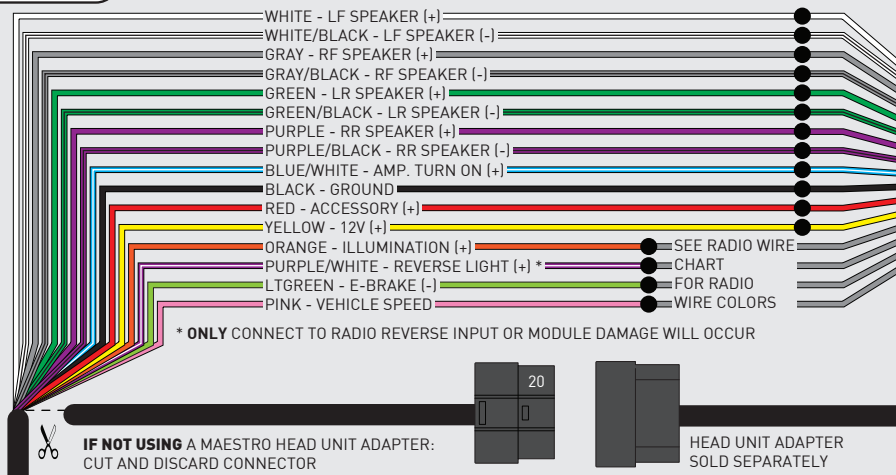
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

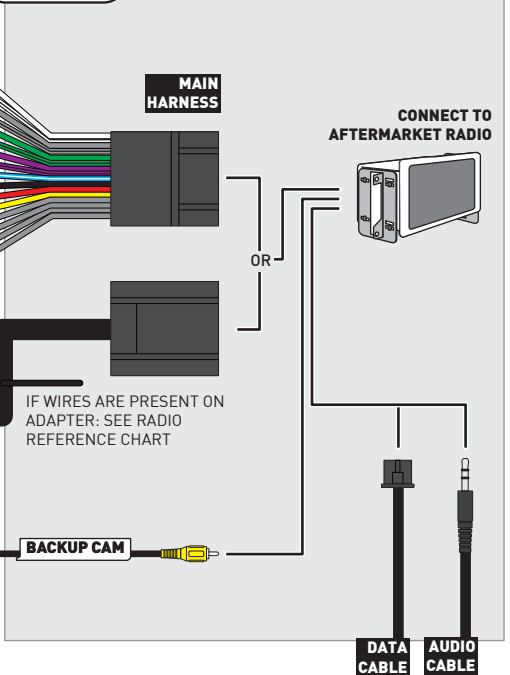
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

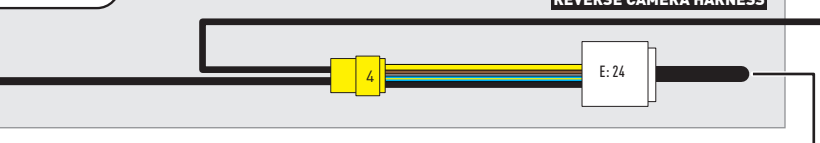
## STEP 1



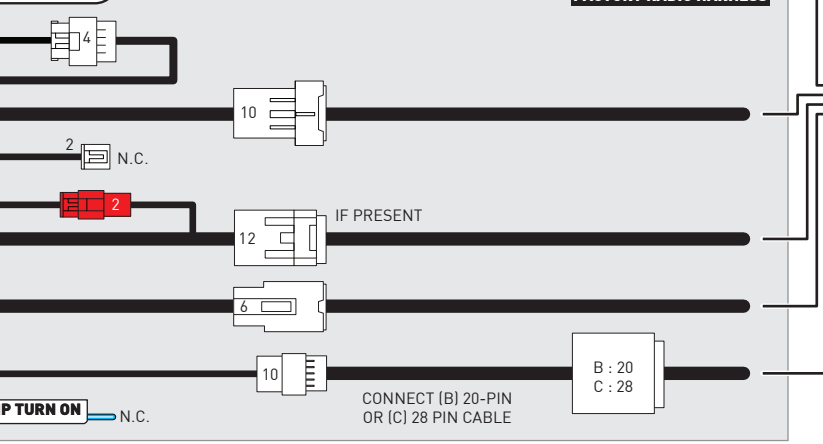
## STEP 5



## STEP 2



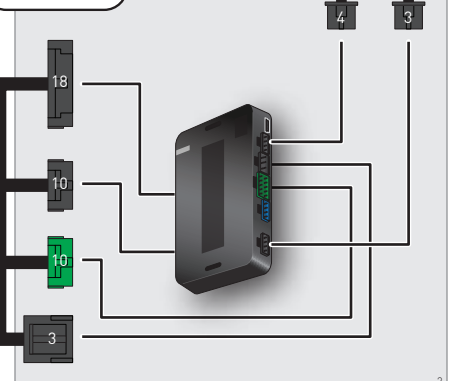
## STEP 3



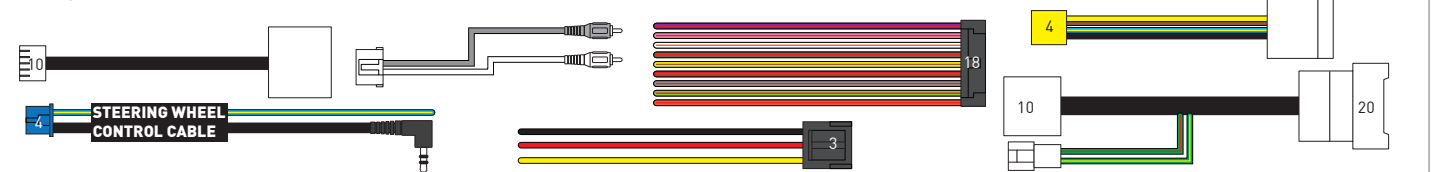
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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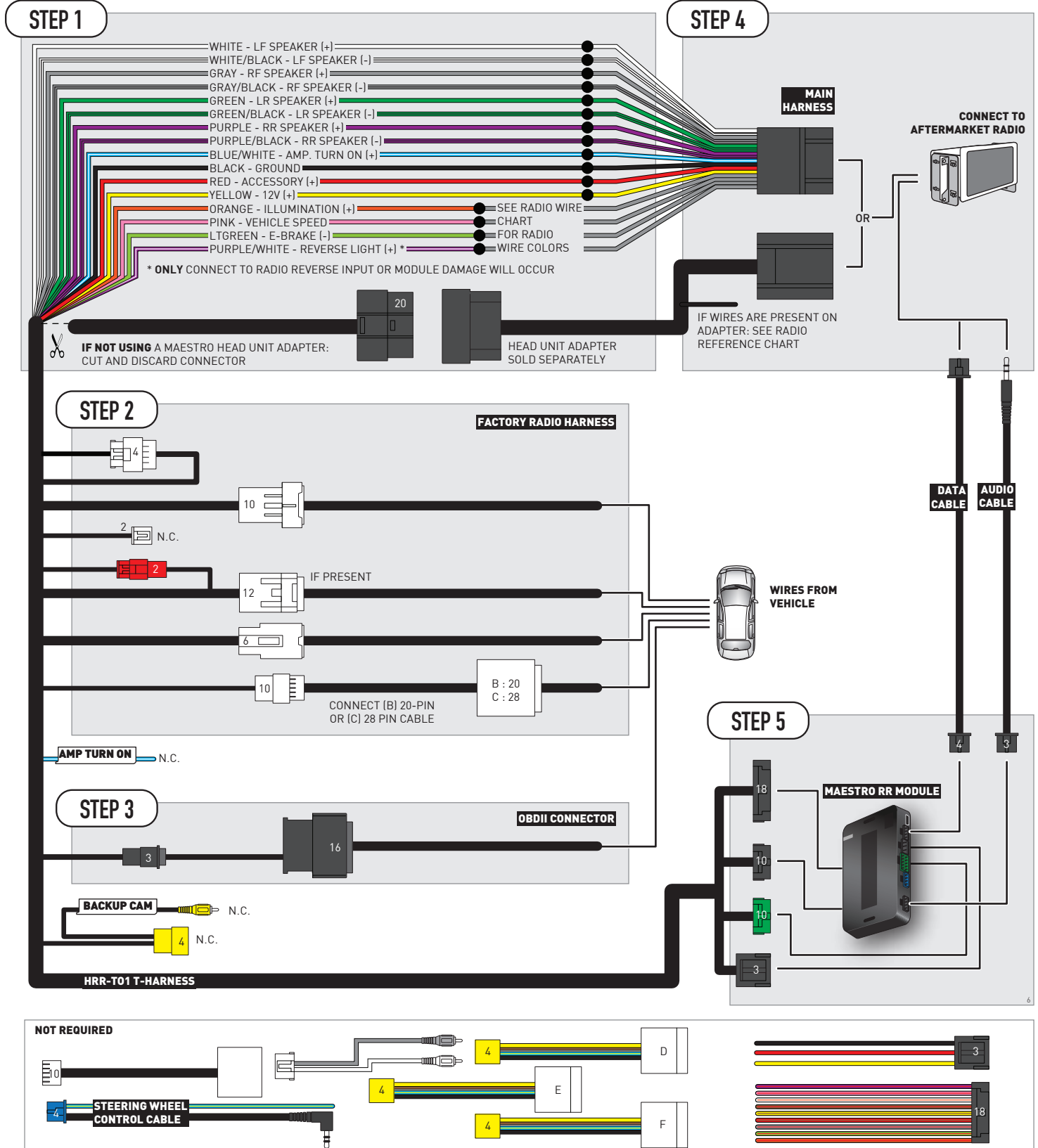
- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
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**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

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

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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.

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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.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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		1 GREEN flash	After radio boots up : Normal operation.
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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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
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## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
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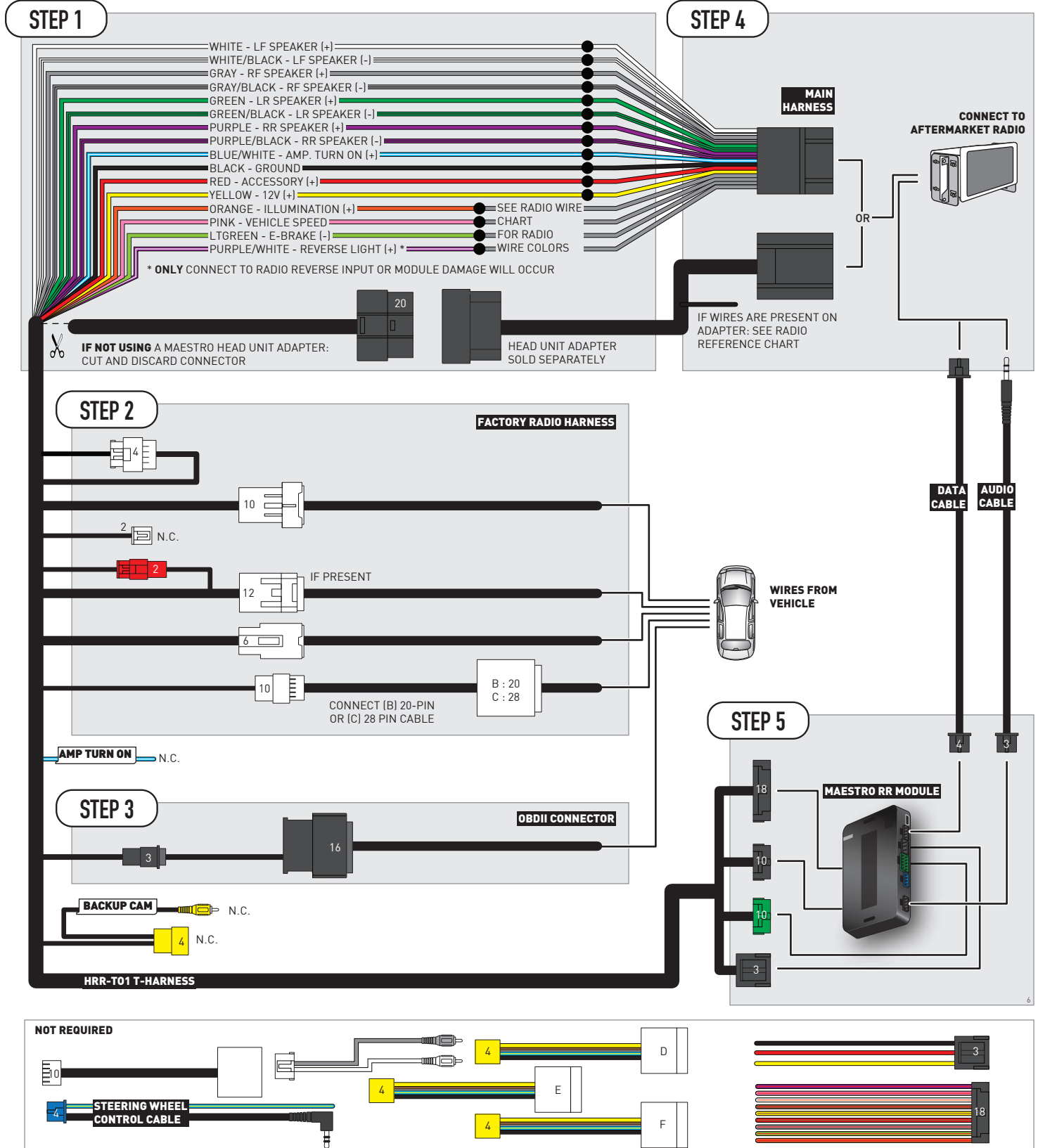
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# WIRING DIAGRAM *without an Amplifier*



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Reverse Light*	(+)	Purple/White	Purple/White
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PROBLEM	SOLUTION
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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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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iDataLink Maestro RR or RR2 Radio Replacement Interface  
iDataLink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1


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# NEED HELP?

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## TABLE OF CONTENTS

Installation Instructions	3
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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

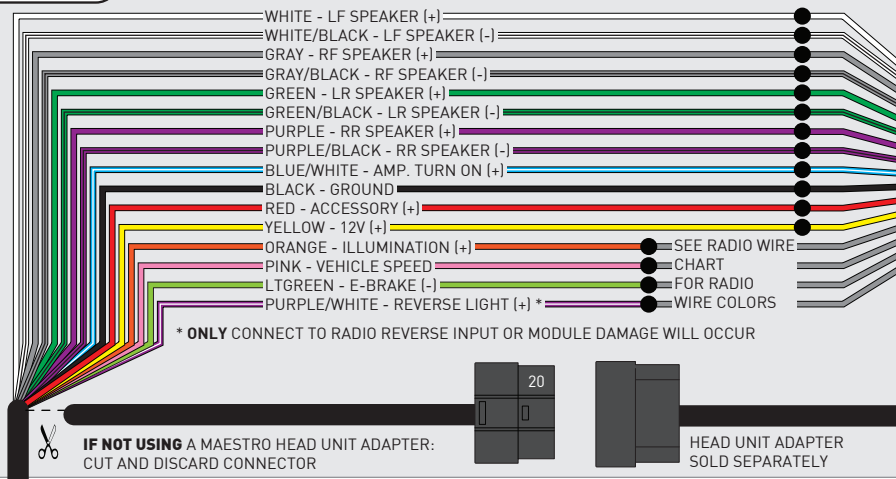
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

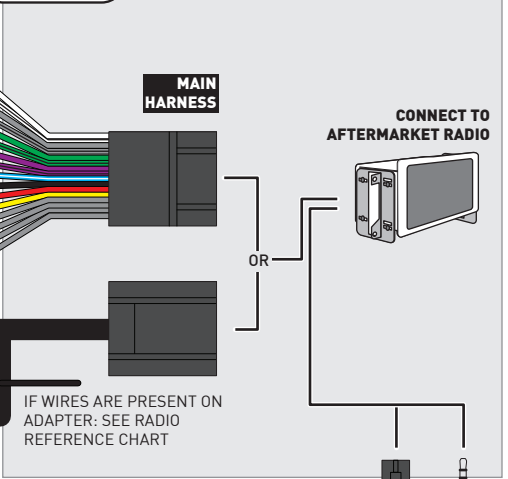
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

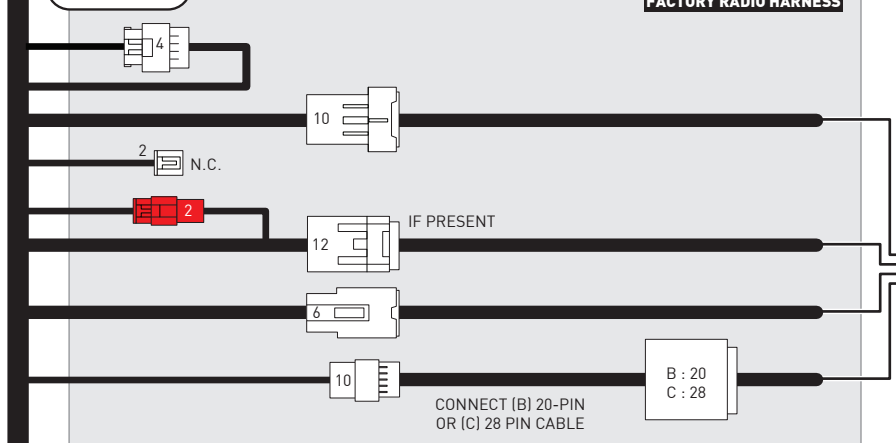
## STEP 1



## STEP 4



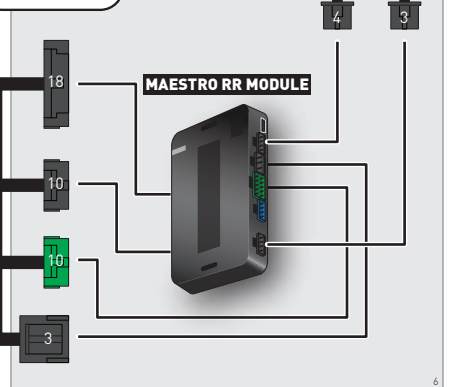
## STEP 2



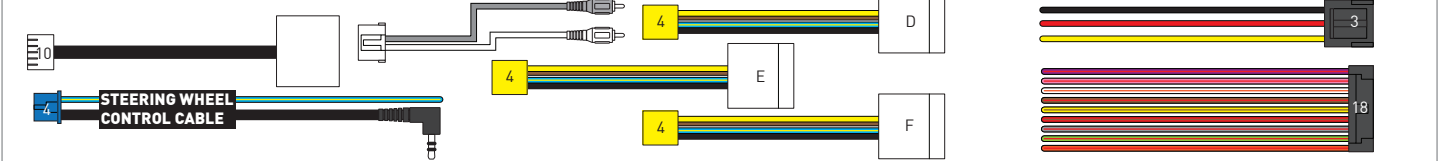
## STEP 3



## STEP 5



## NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

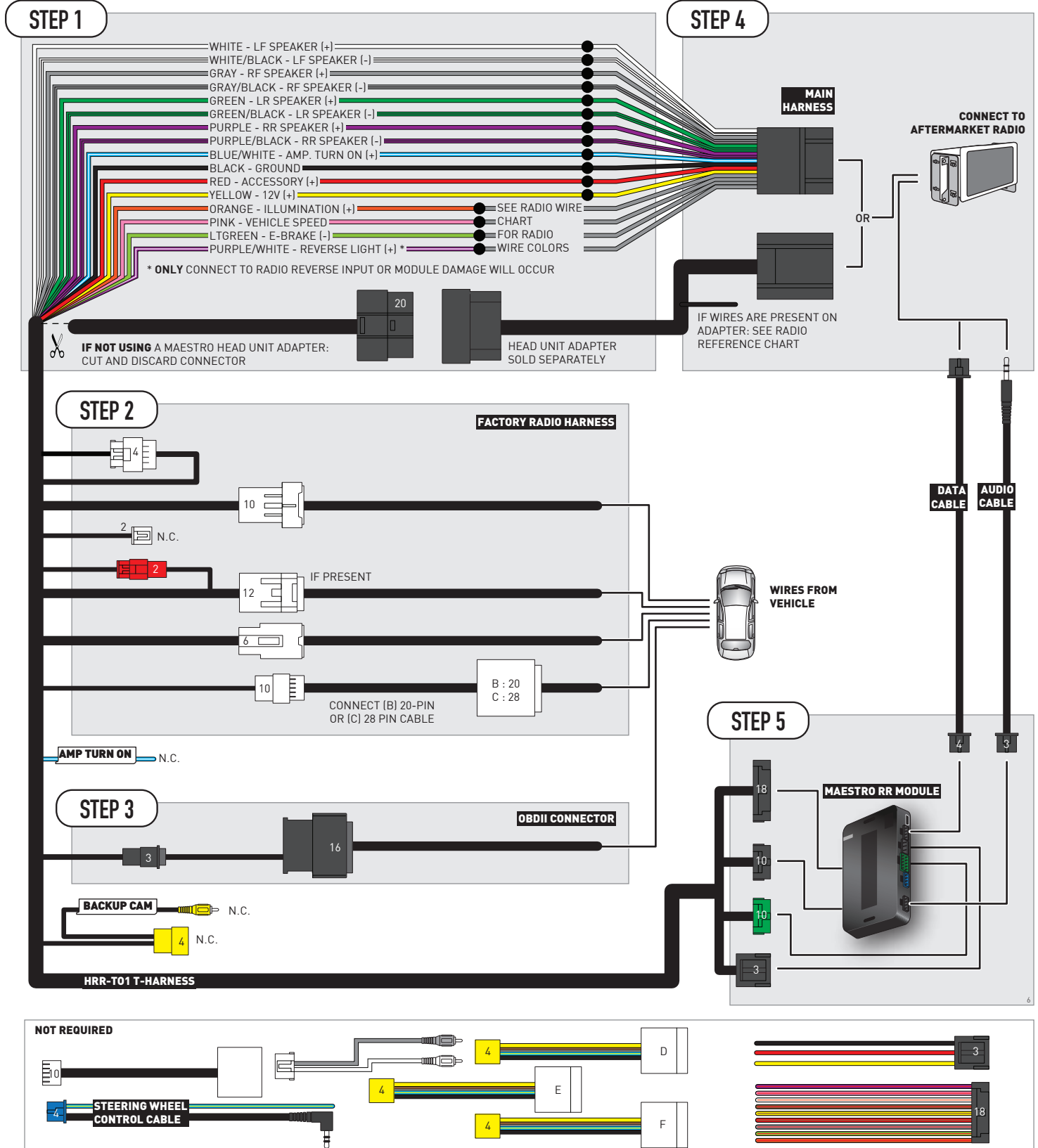
- Plug the harnesses into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

## STEP 5

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

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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.
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<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

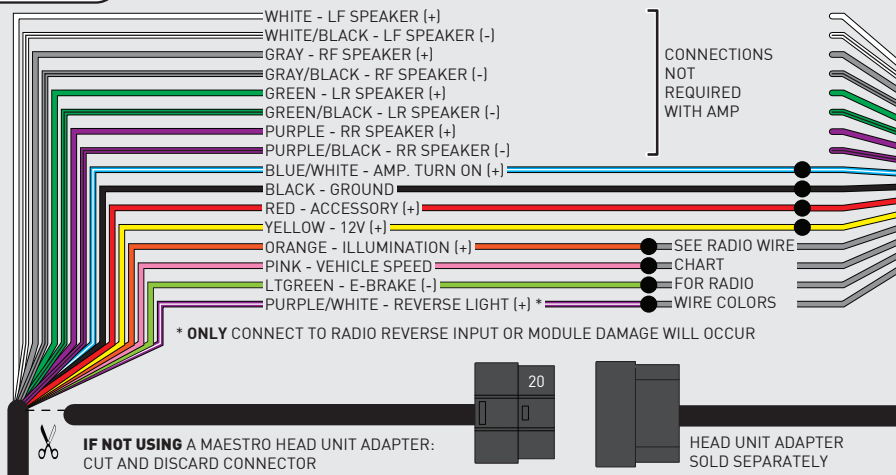
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

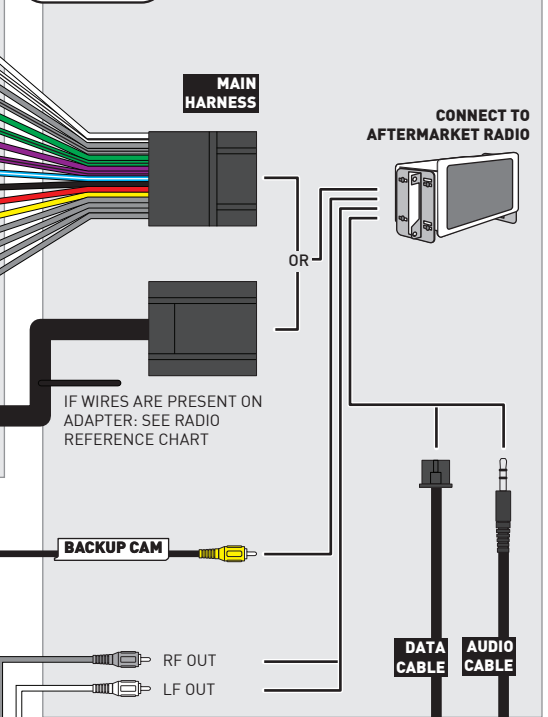
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# WIRING DIAGRAM *with an Amplifier*

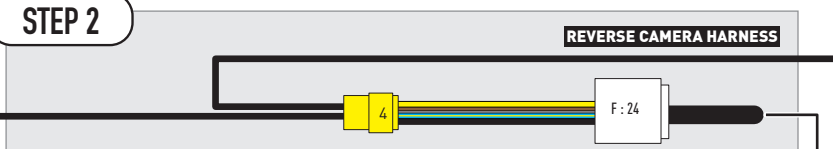
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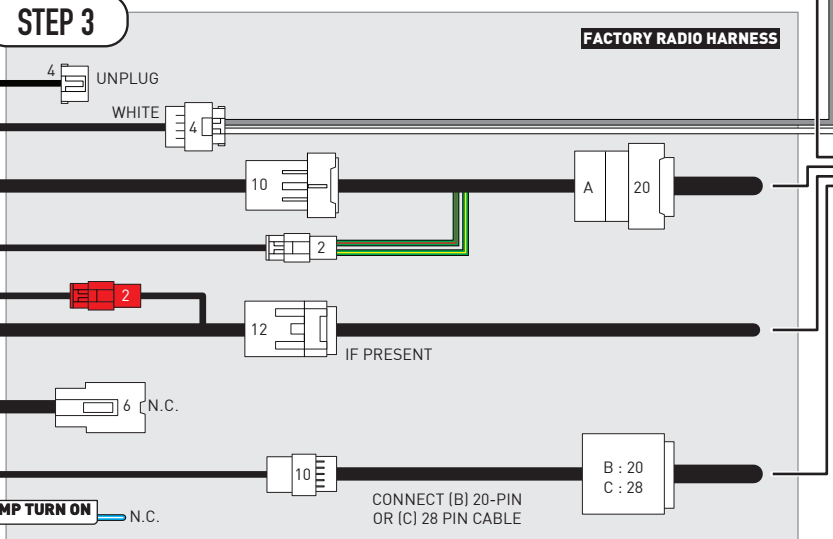
## STEP 5



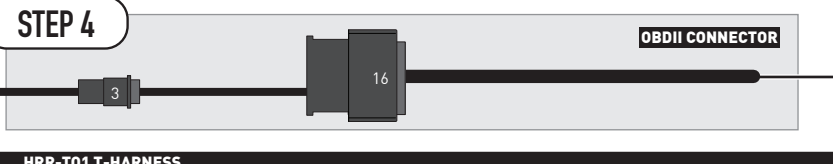
## STEP 2



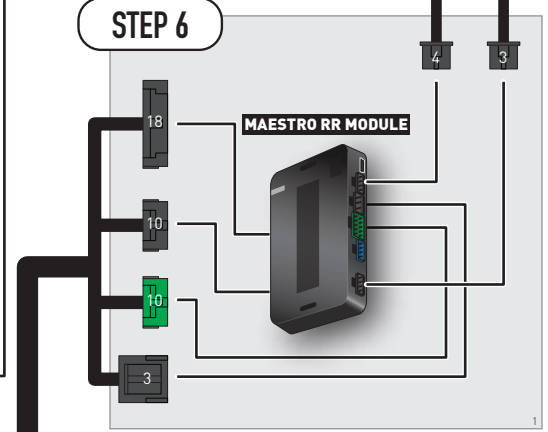
## STEP 3



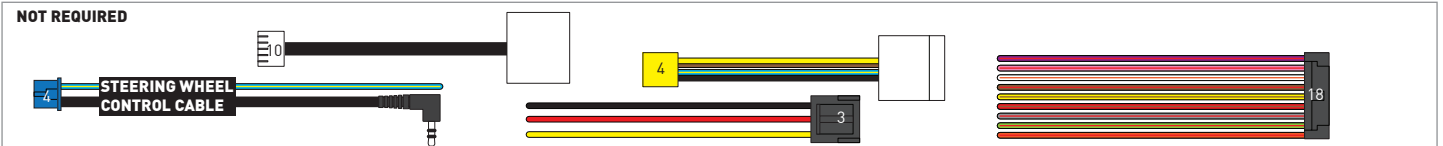
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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

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<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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

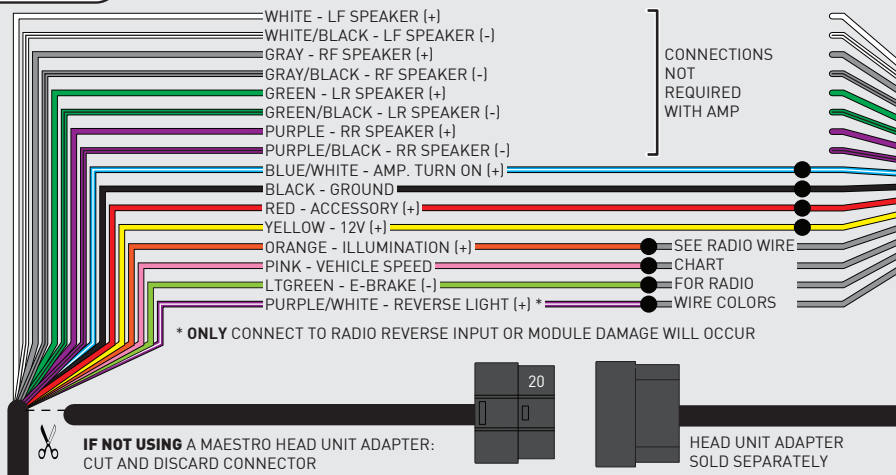
## STEP 6

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

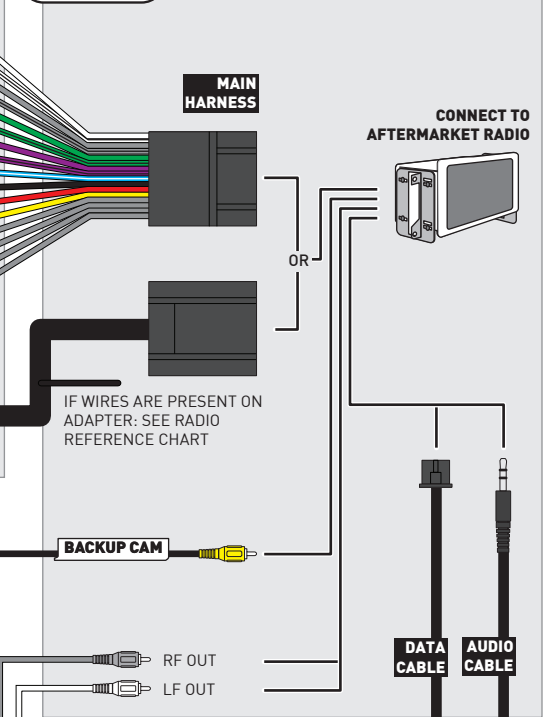


# WIRING DIAGRAM *with an Amplifier*

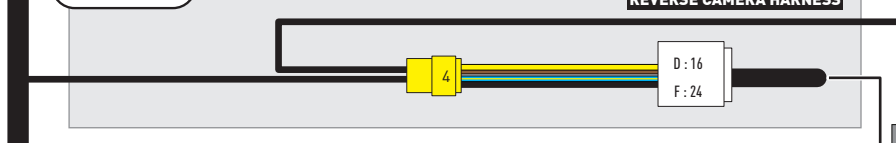
## STEP 1



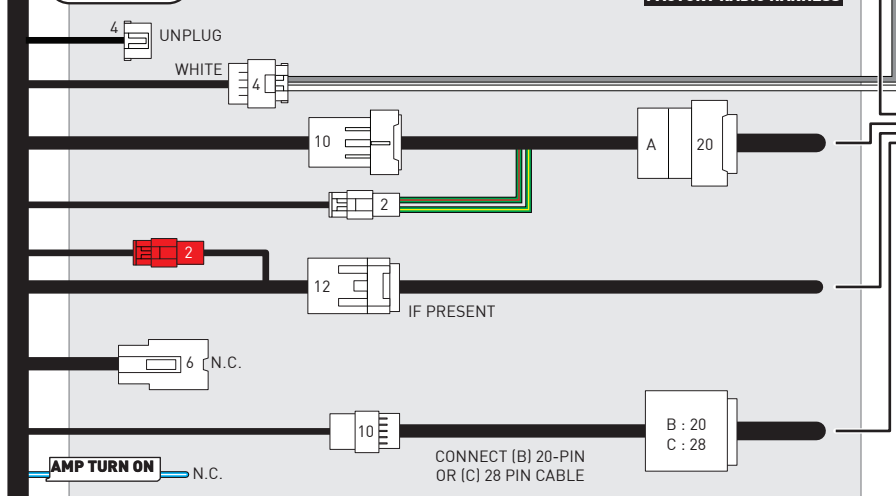
## STEP 5



## STEP 2



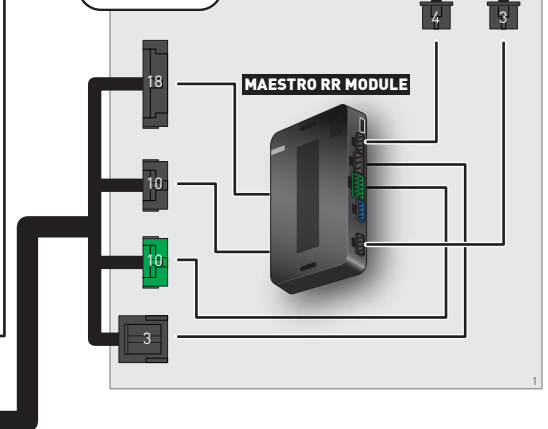
## STEP 3



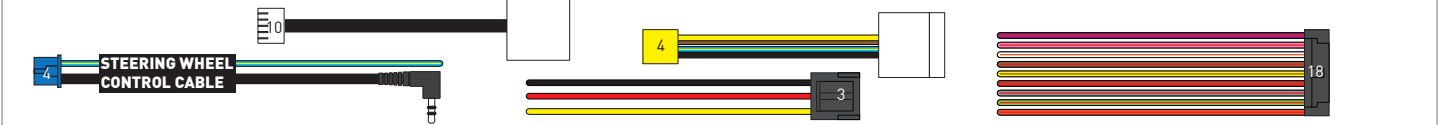
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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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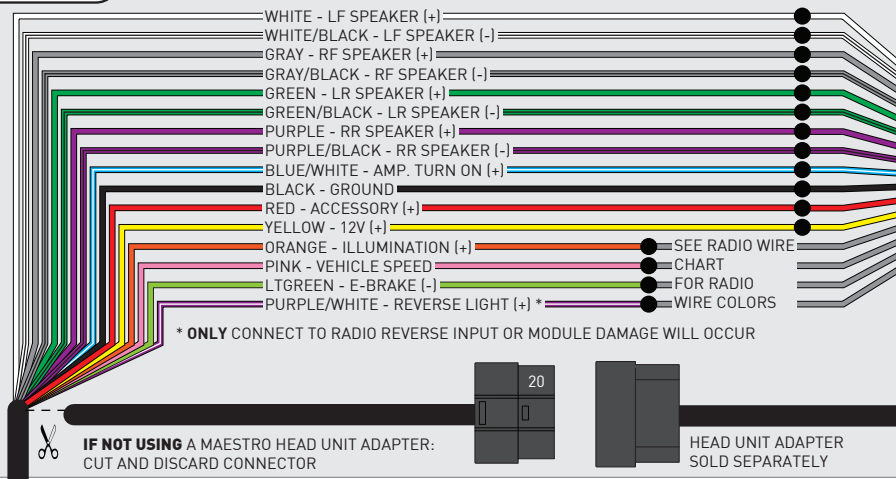
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

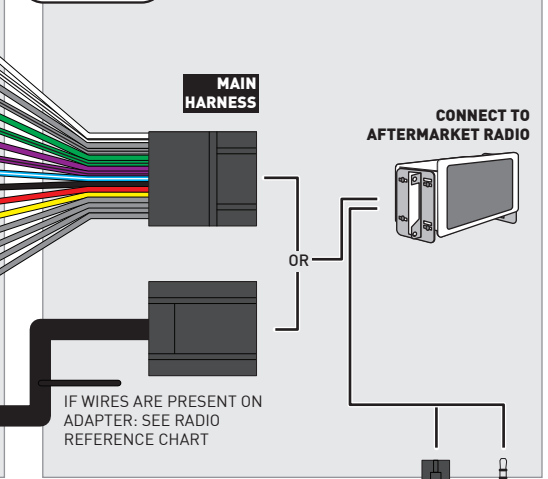
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

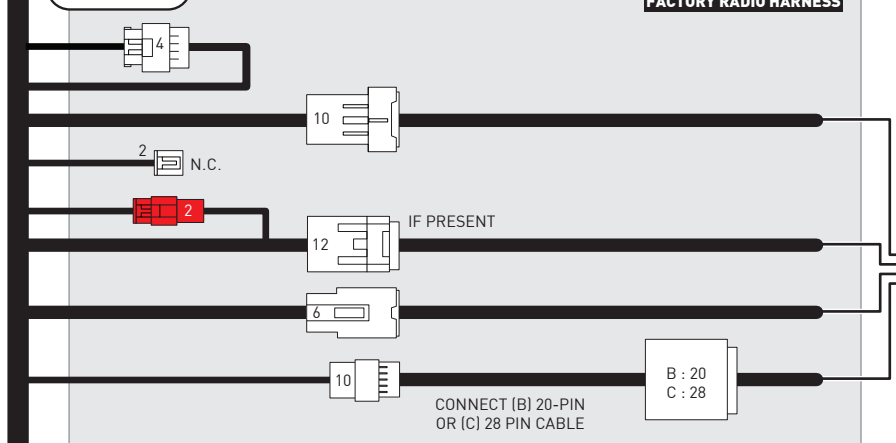
## STEP 1



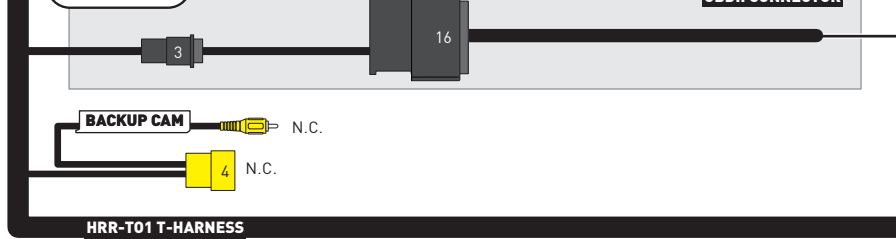
## STEP 4



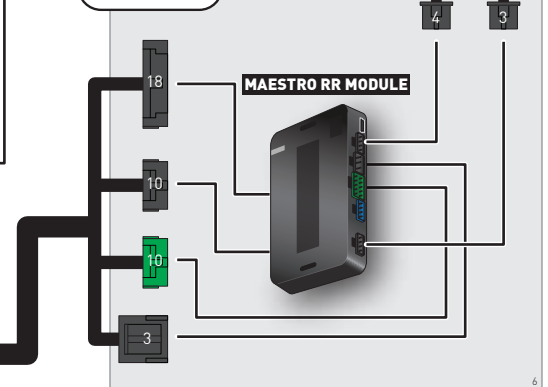
## STEP 2



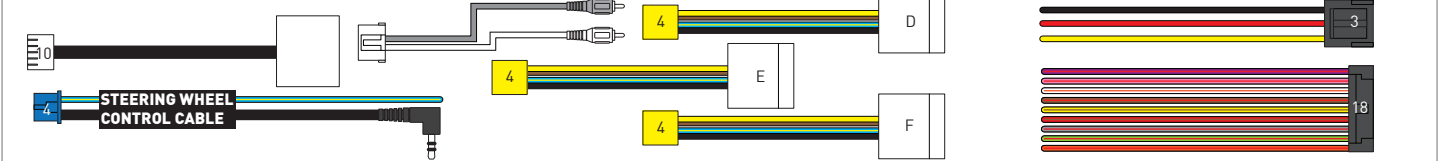
## STEP 3



## STEP 5



## NOT REQUIRED





# RADIO WIRE REFERENCE CHART

T01 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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CAM	(+)	Green/Red	Refer to camera/radio manual
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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## STEP 2

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- Identify if your vehicle has a 20 or 28 pin secondary connector.
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## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
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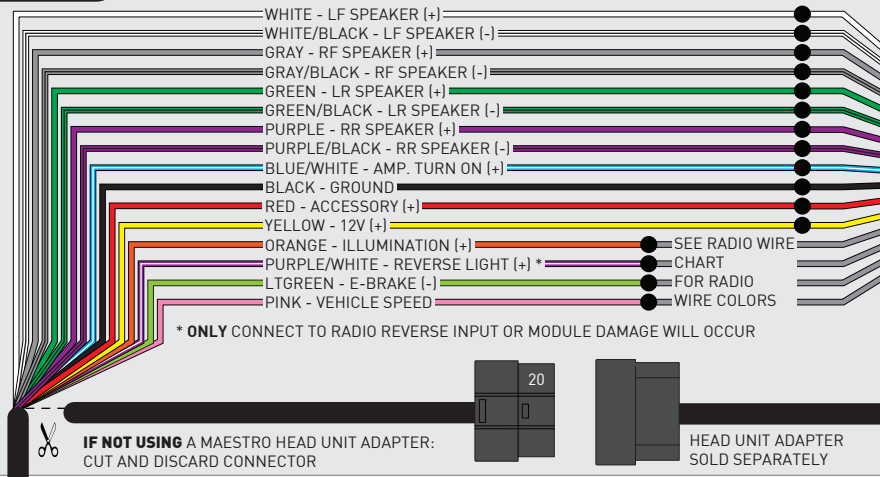
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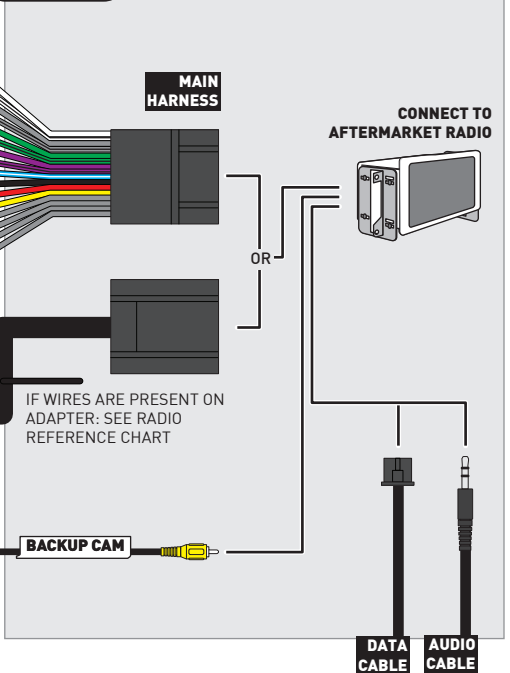
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# WIRING DIAGRAM *without an Amplifier*

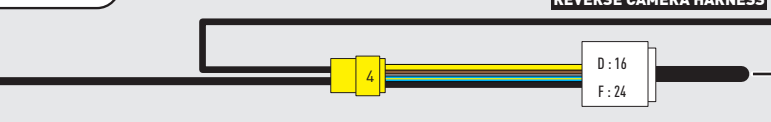
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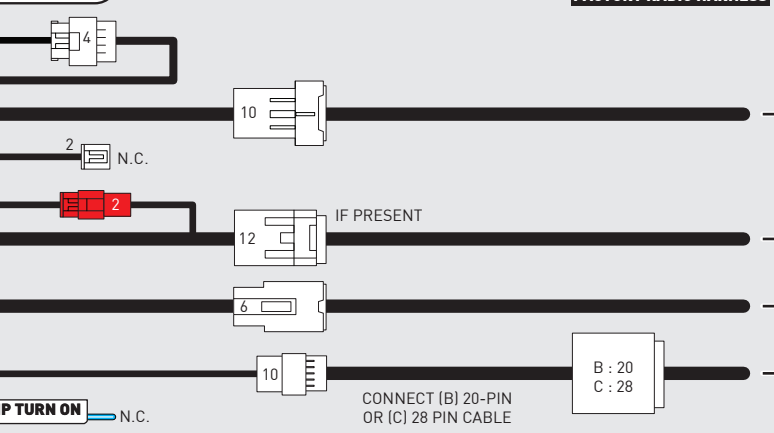
## STEP 5



## STEP 2



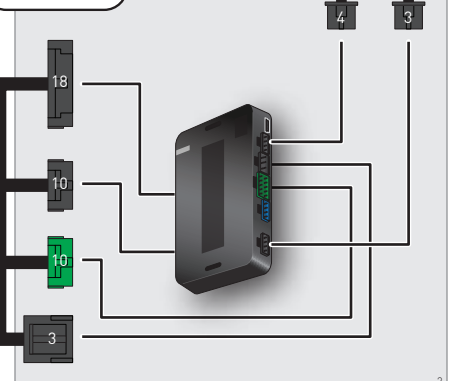
## STEP 3



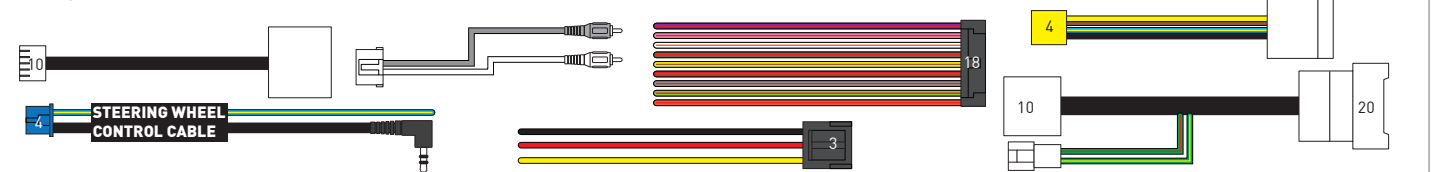
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES



Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

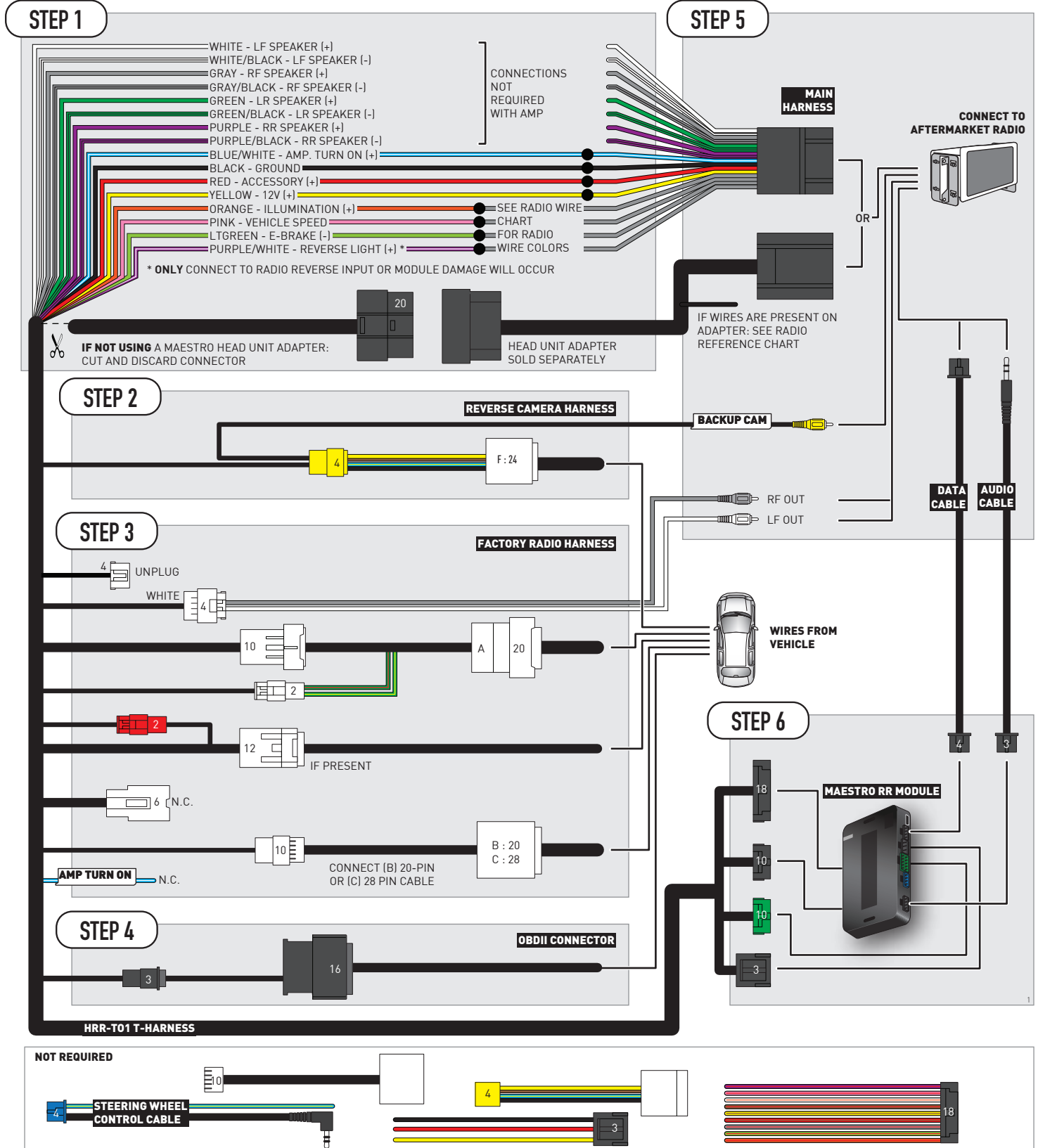
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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

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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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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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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**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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

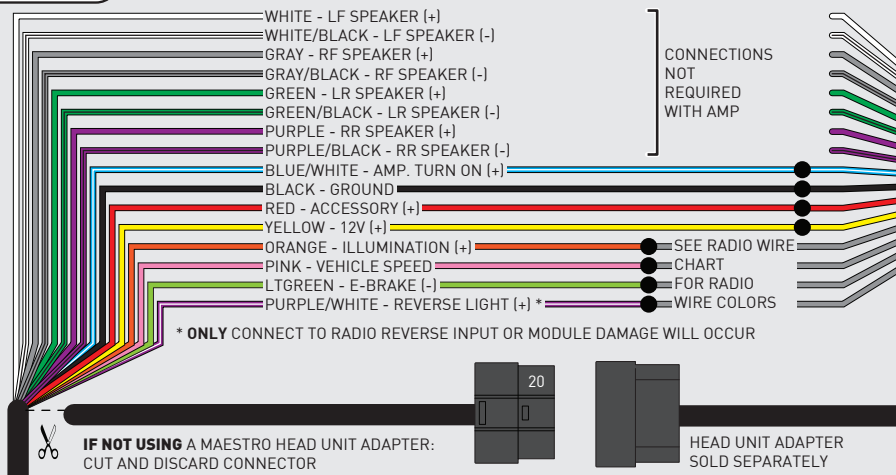
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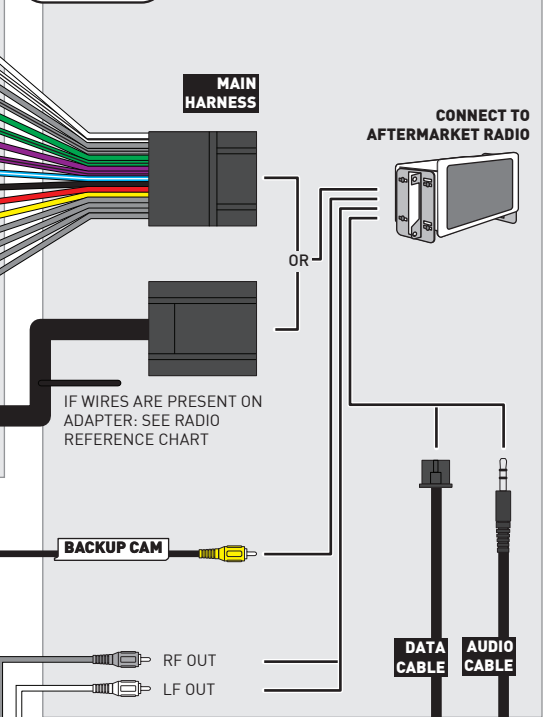
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# WIRING DIAGRAM *with an Amplifier*

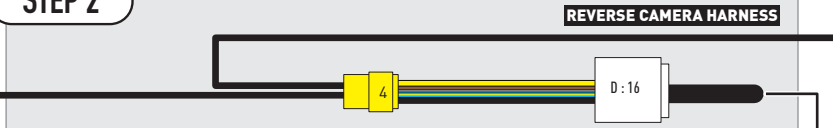
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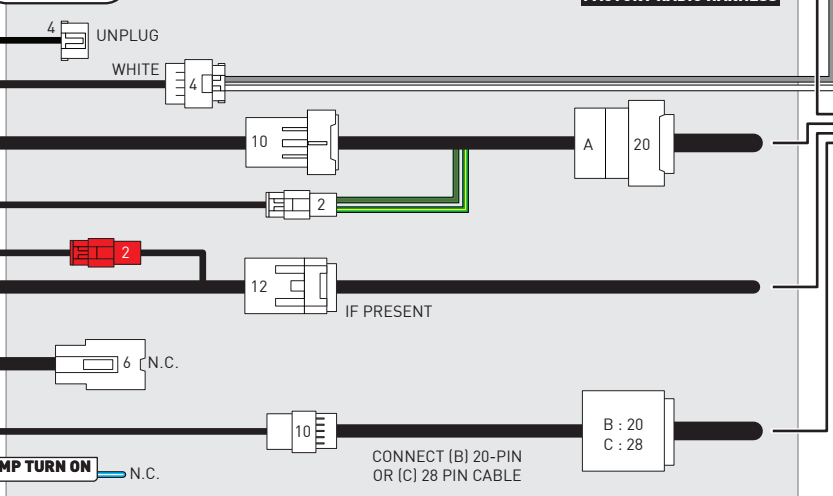
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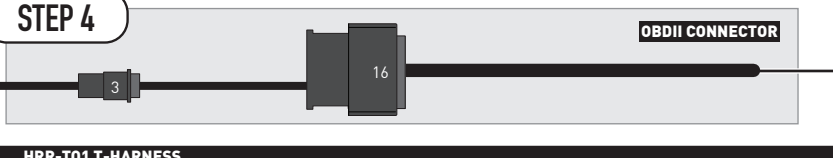
## STEP 2



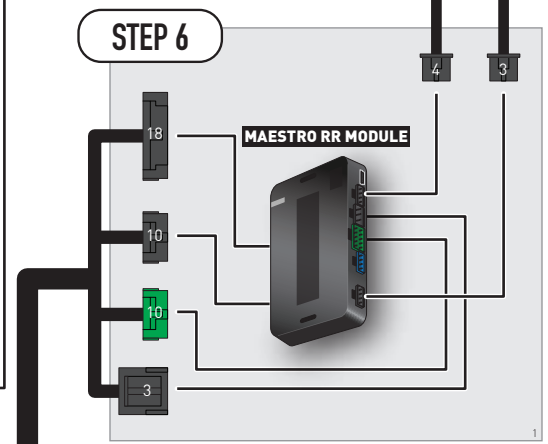
## STEP 3



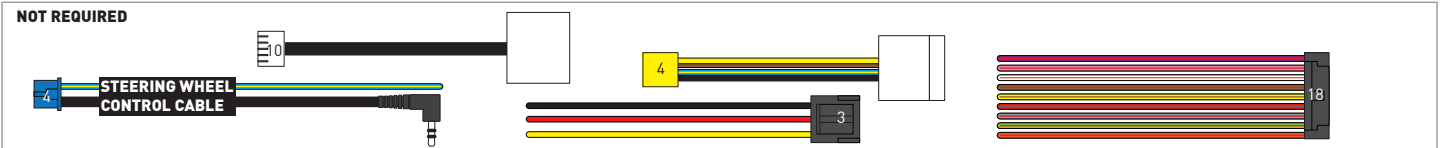
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
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- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

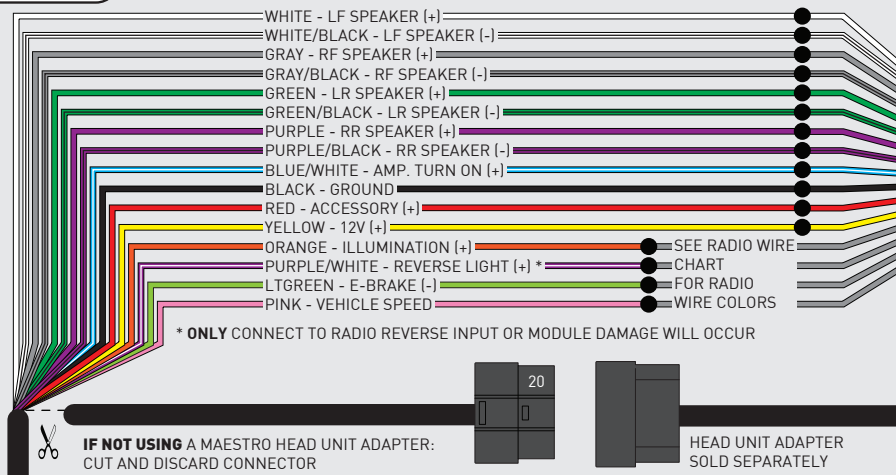
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

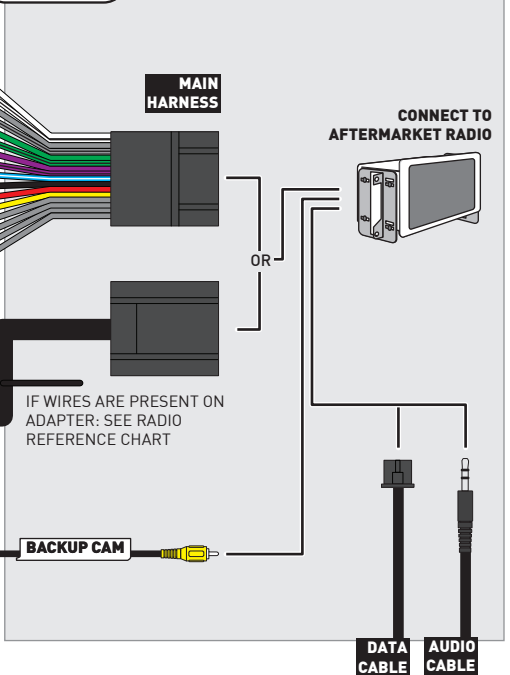
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

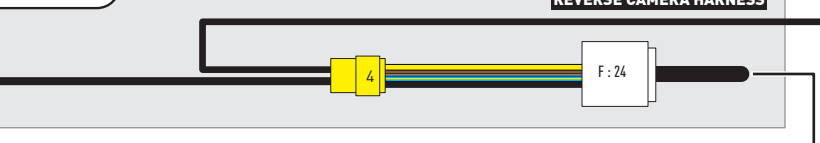
## STEP 1



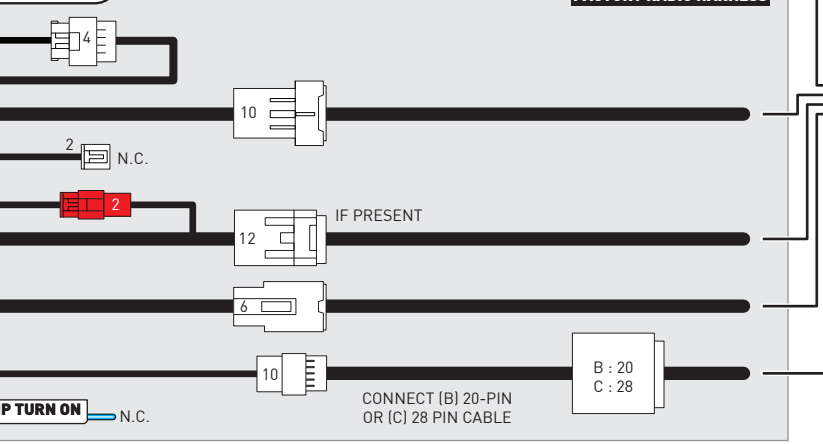
## STEP 5



## STEP 2



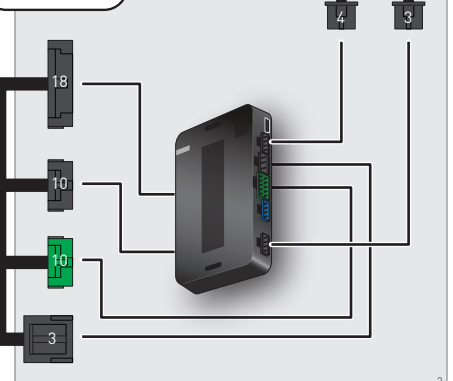
## STEP 3



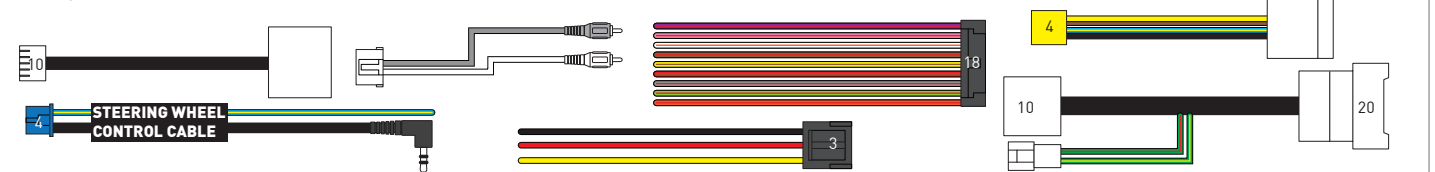
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

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

Click here for:  
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HEAD UNIT ADAPTER:  
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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

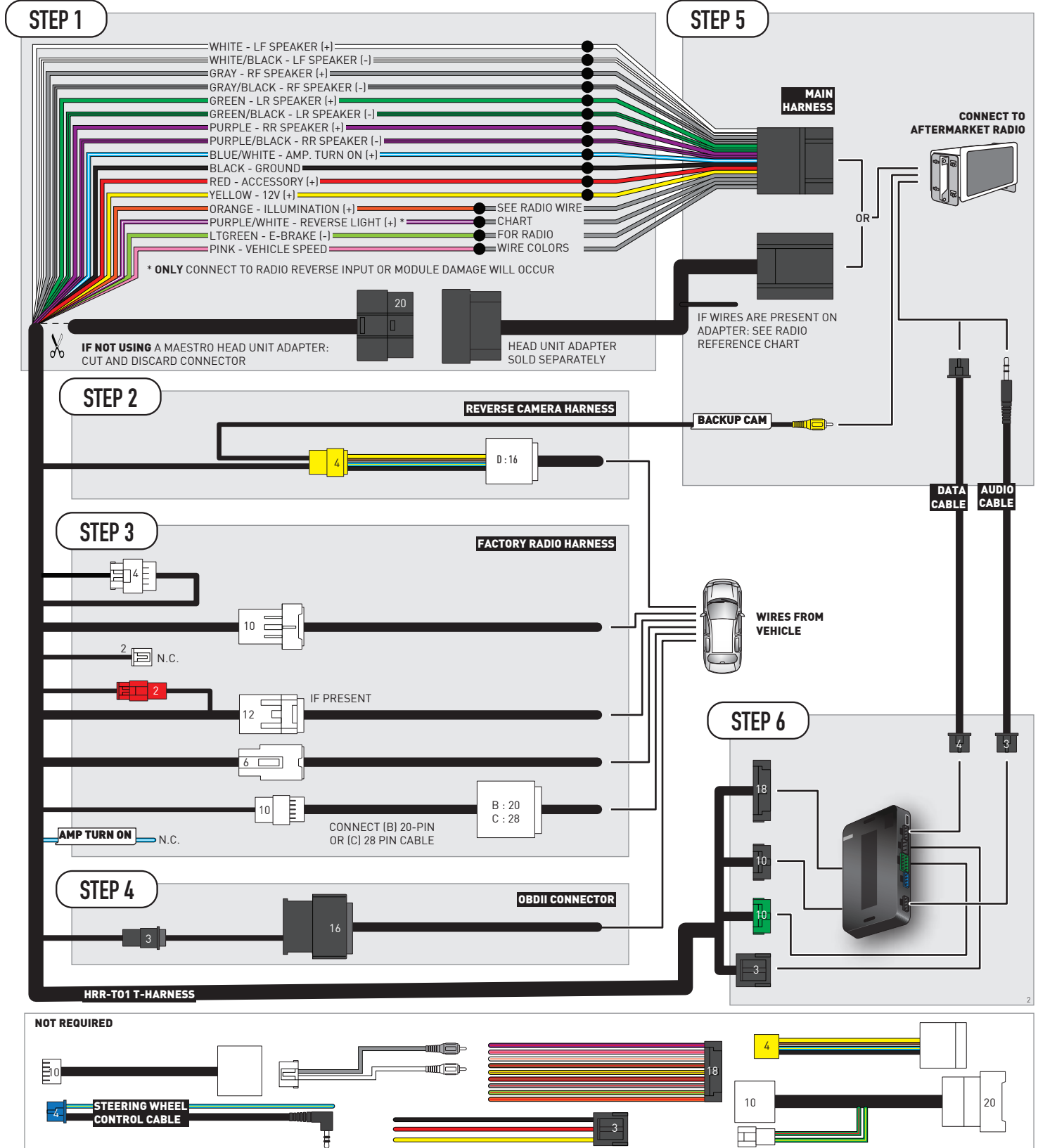
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

## STEP 6

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

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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

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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.
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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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

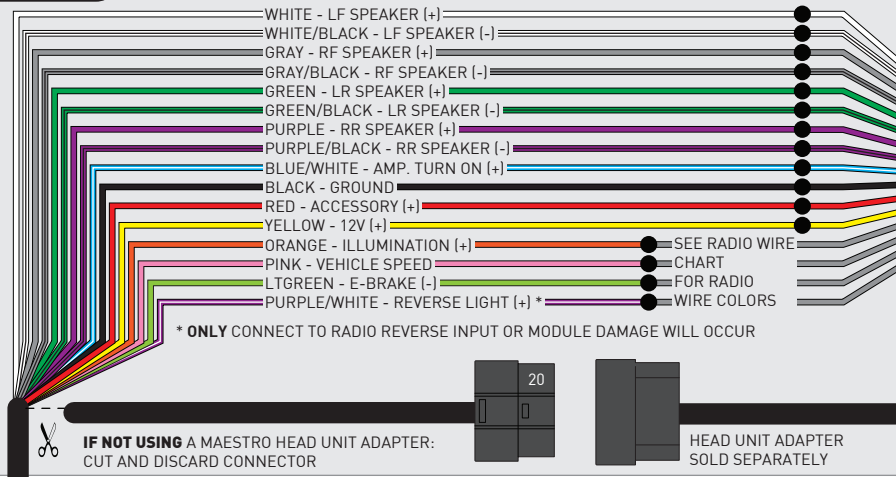
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

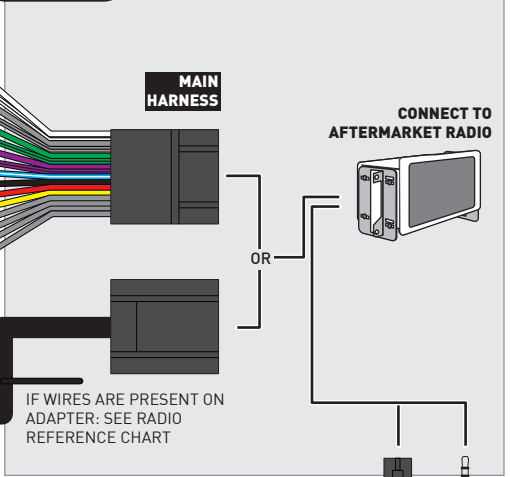
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# WIRING DIAGRAM *without an Amplifier*

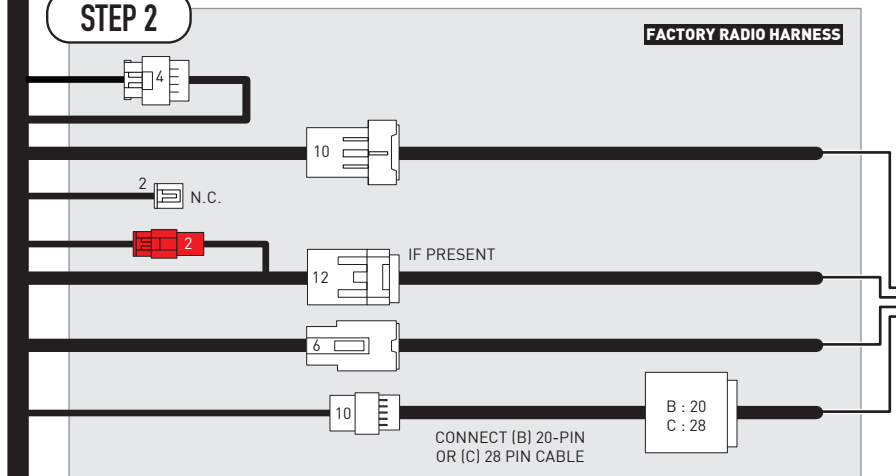
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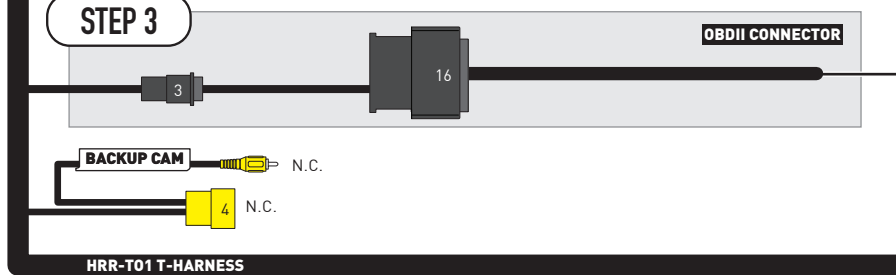
## STEP 4



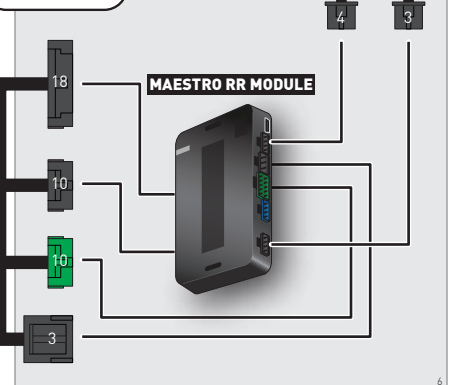
## STEP 2



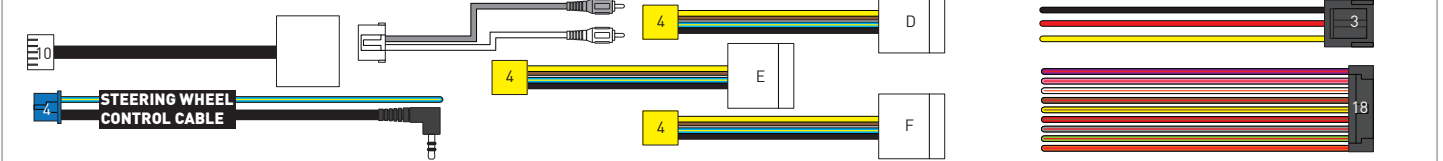
## STEP 3



## STEP 5



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# RADIO WIRE REFERENCE CHART

T01 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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## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

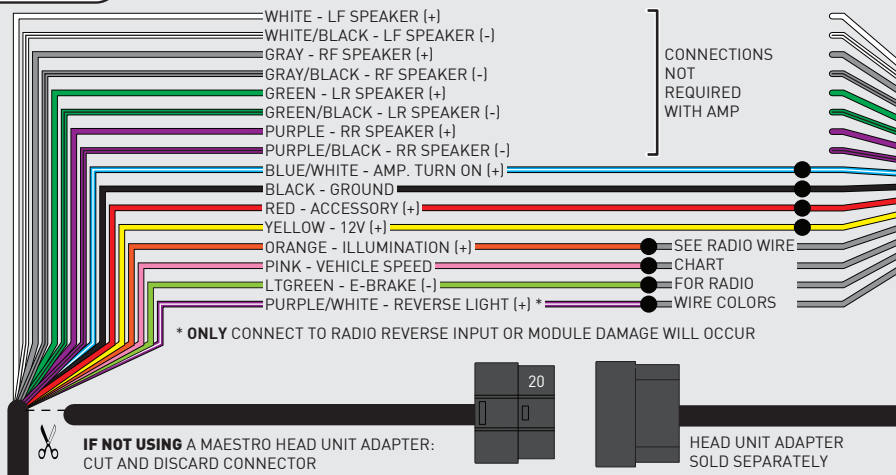
## STEP 6

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

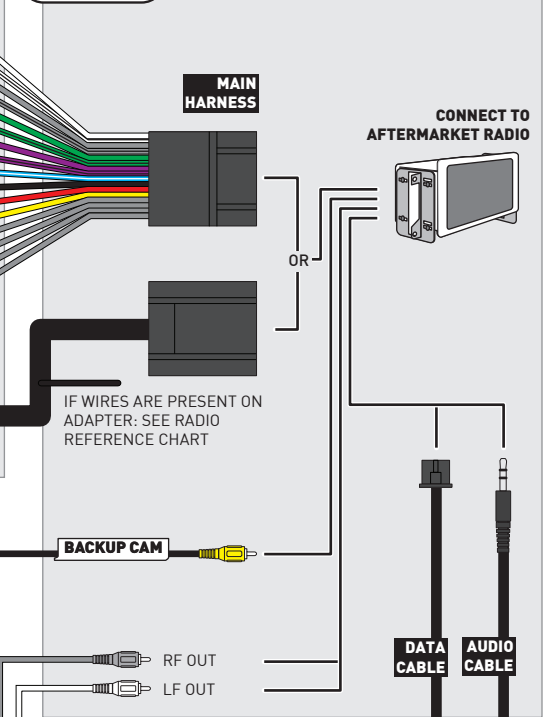


# WIRING DIAGRAM *with an Amplifier*

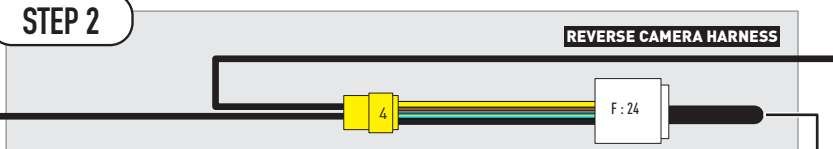
## STEP 1



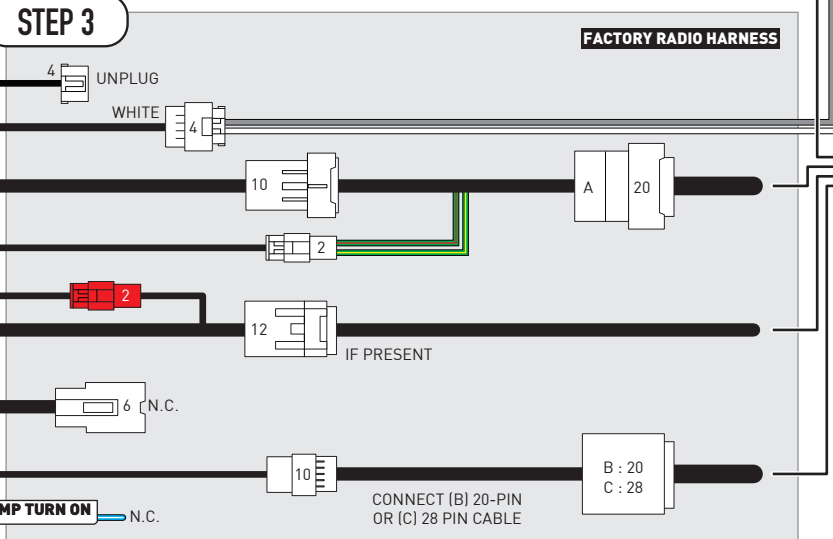
## STEP 5



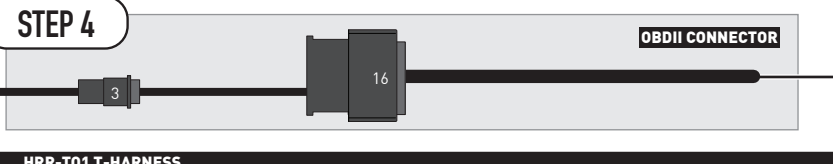
## STEP 2



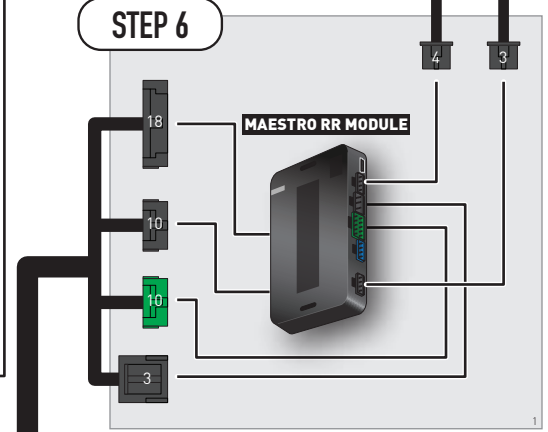
## STEP 3



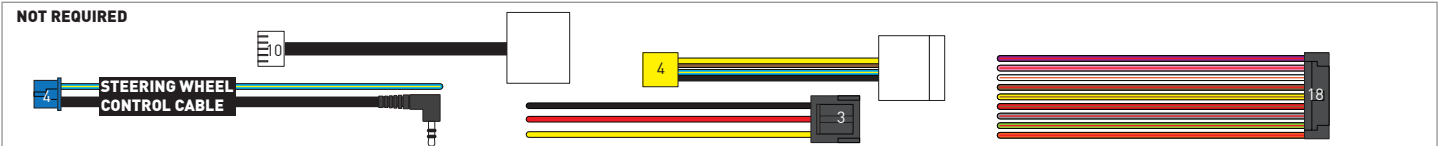
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.**

## TABLE OF CONTENTS

Installation Instructions	3
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

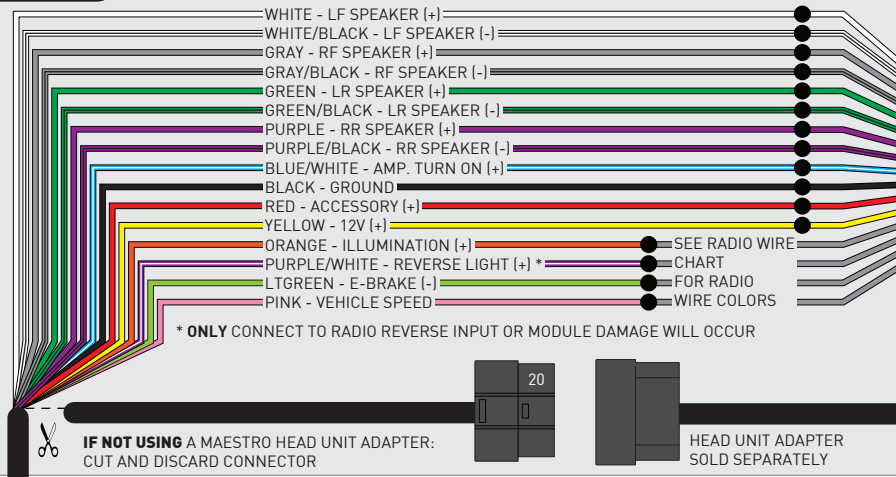
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

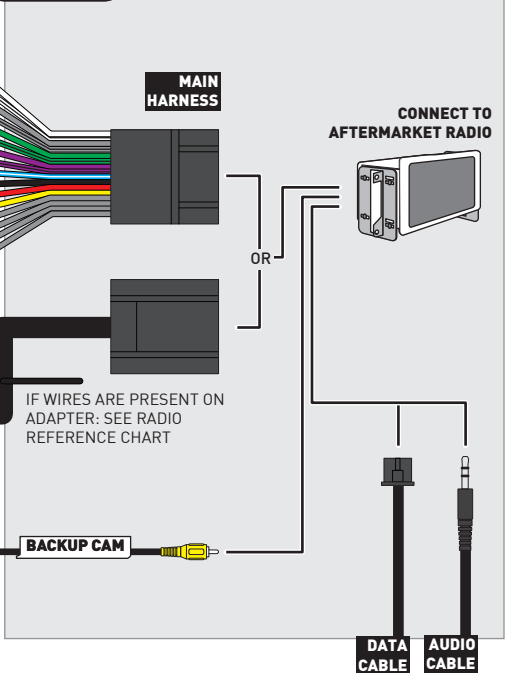
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

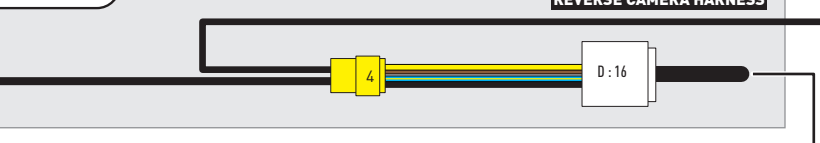
## STEP 1



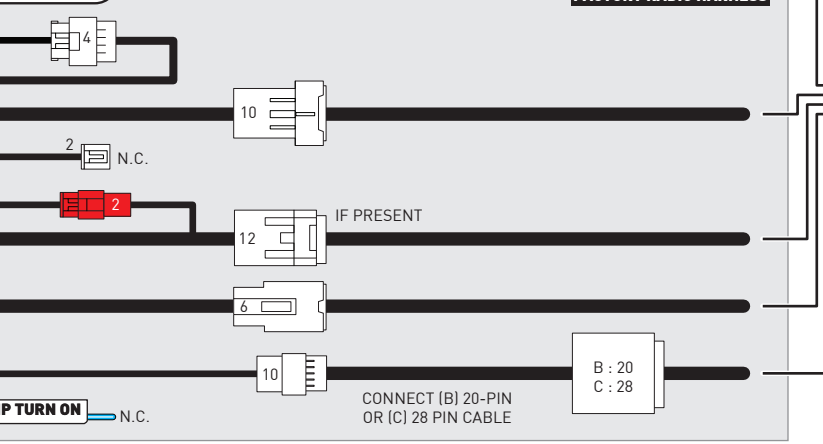
## STEP 5



## STEP 2



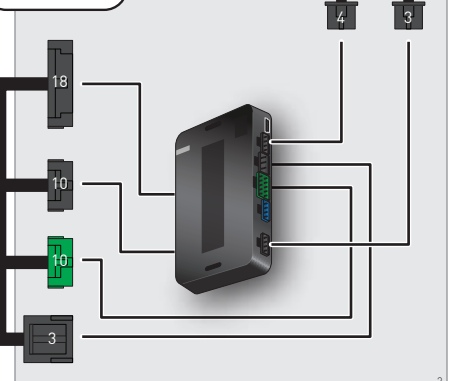
## STEP 3



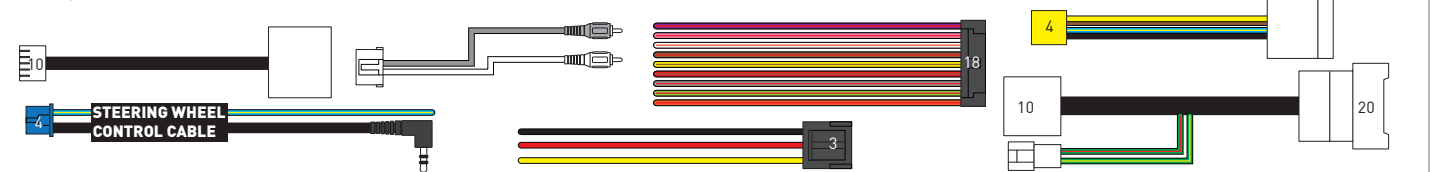
## STEP 4



## STEP 6



### NOT REQUIRED





# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

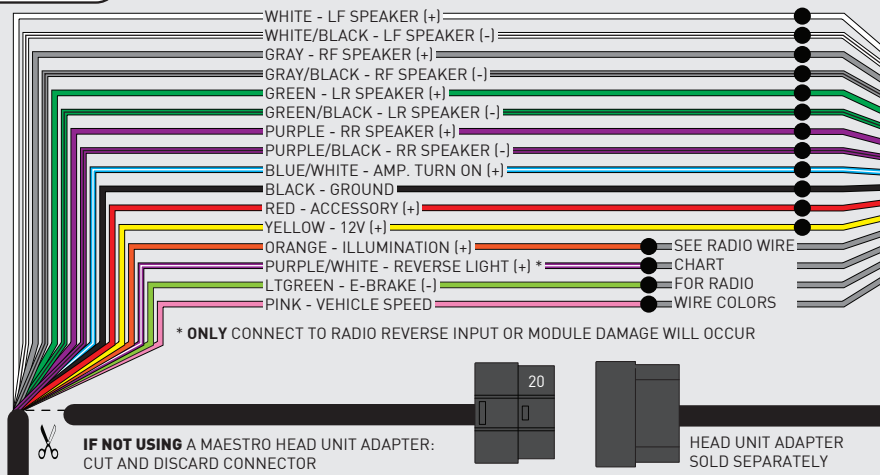
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

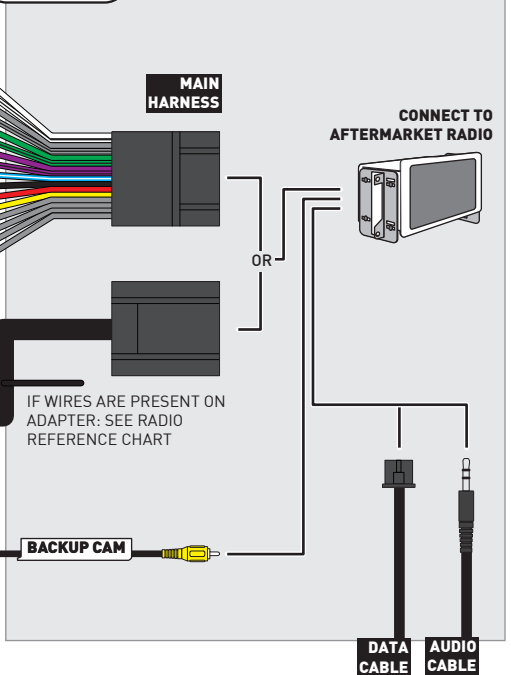
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# WIRING DIAGRAM *without an Amplifier*

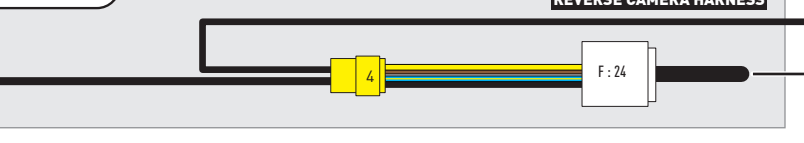
## STEP 1



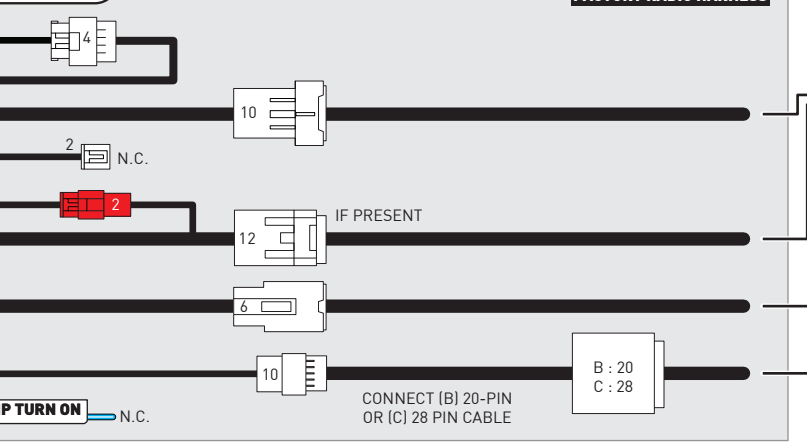
## STEP 5



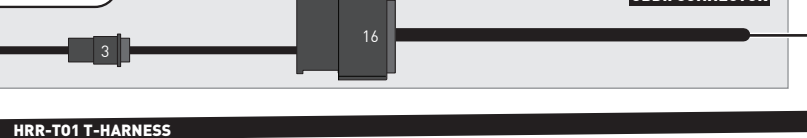
## STEP 2



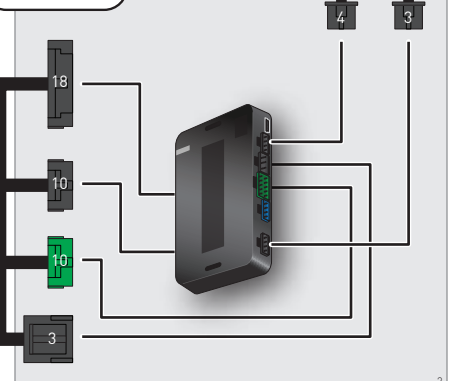
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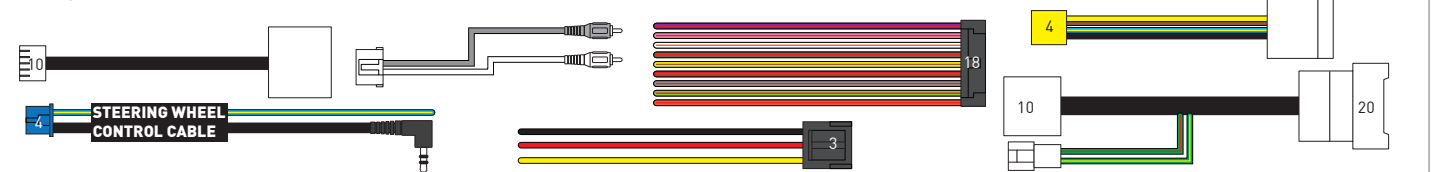
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# RADIO WIRE REFERENCE CHART

T01 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
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ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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



# MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDataLink Maestro RR or RR2 Radio Replacement Interface  
iDataLink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.

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

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

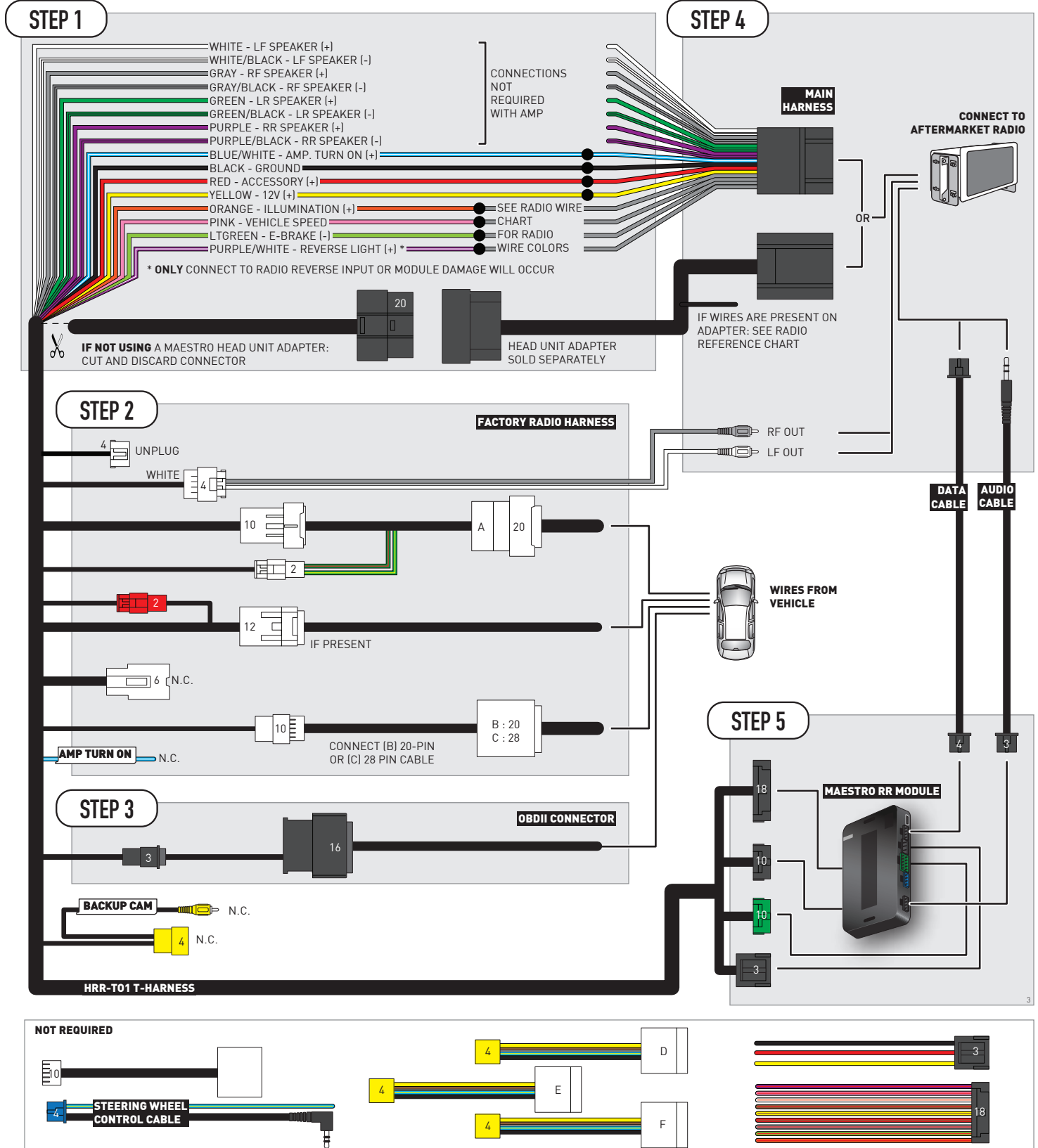
- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

## STEP 5

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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HEAD UNIT ADAPTER:  
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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

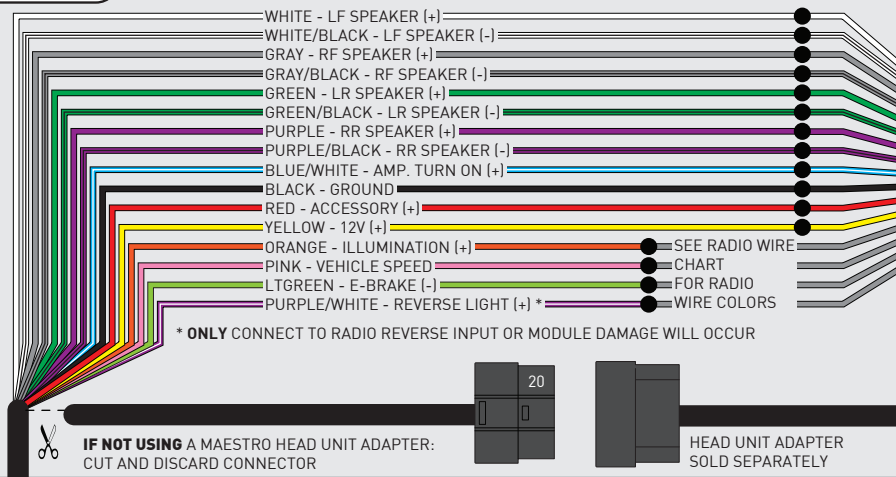
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

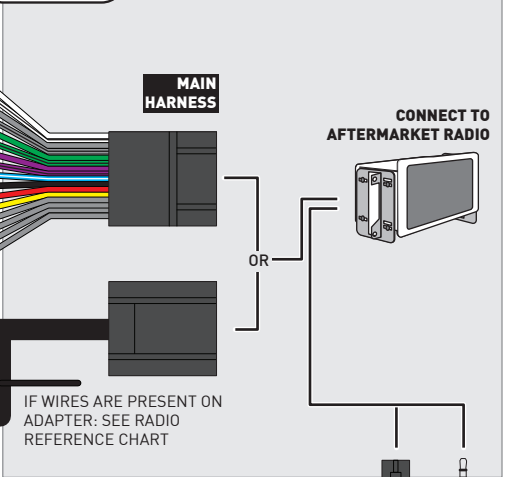
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

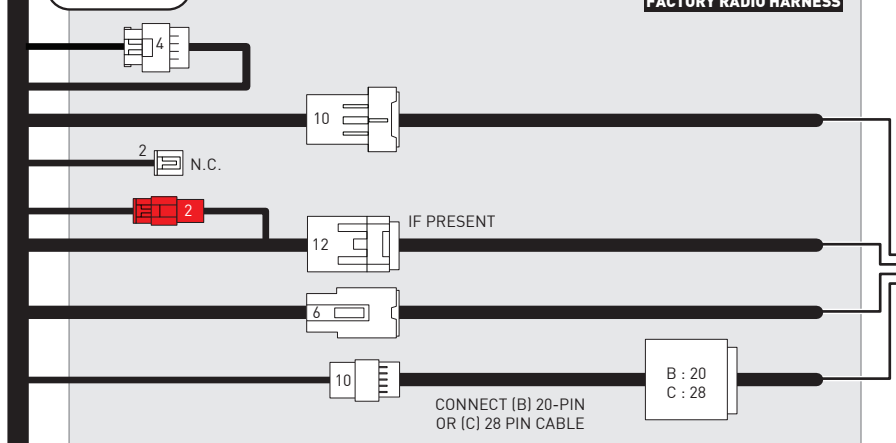
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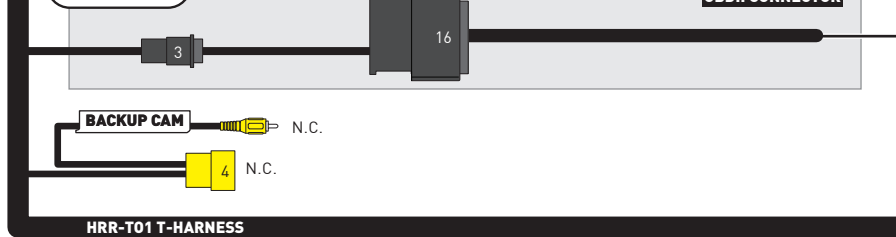
## STEP 4



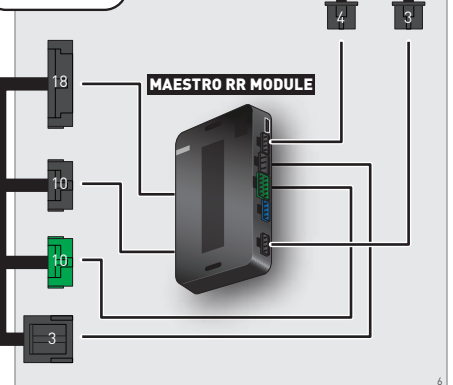
## STEP 2



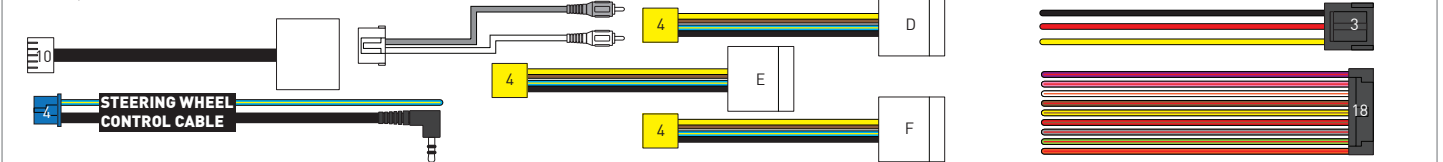
## STEP 3



## STEP 5



## NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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<a href="#">VIDEO HELP</a>		Installation, product information, vehicle specific videos.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII 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>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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**If using head unit adapter (sold separately), connect HRR-T01 harness to adapter and skip to step 2.**

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- Cut and remove the black 20 pin connector from the HRR-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
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- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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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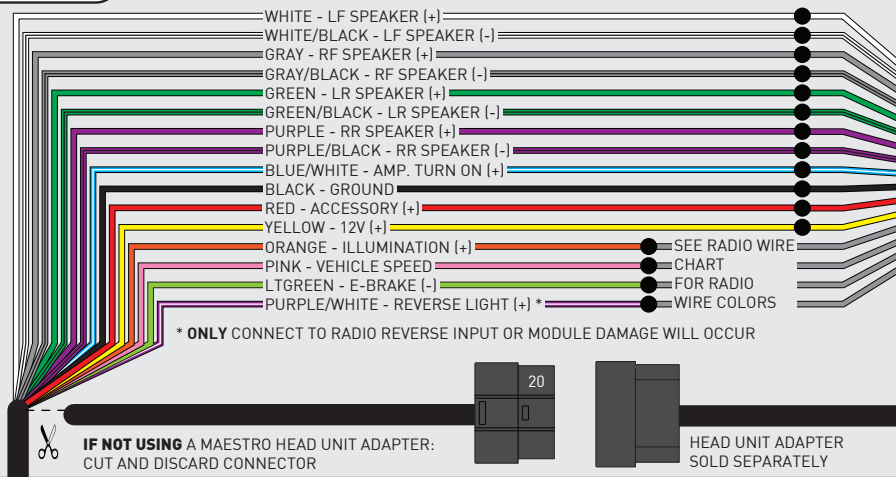
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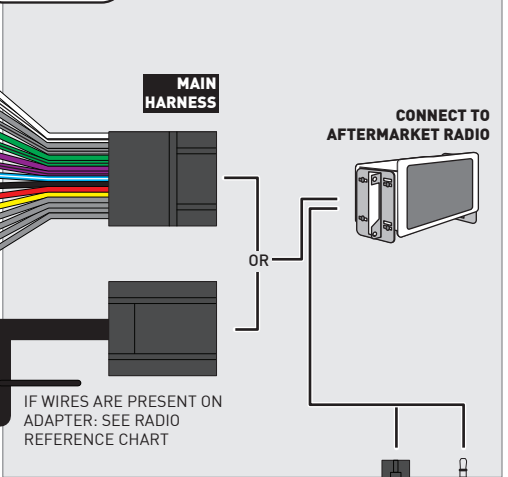
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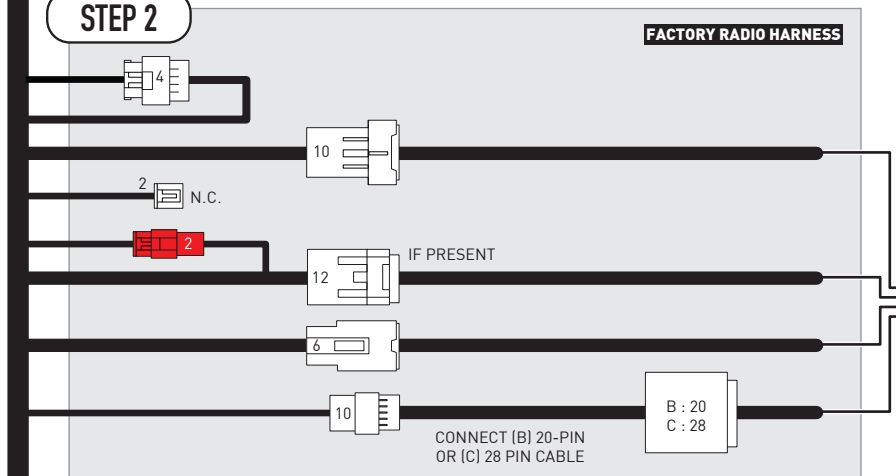
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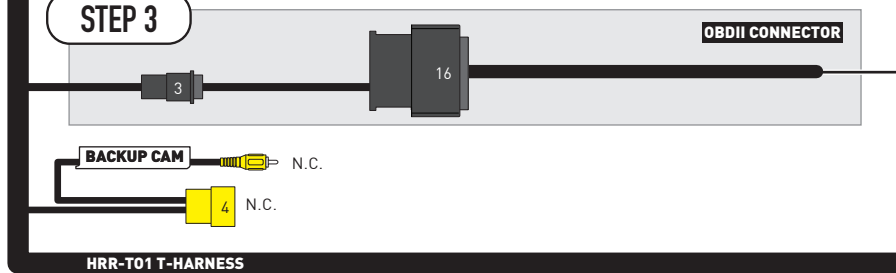
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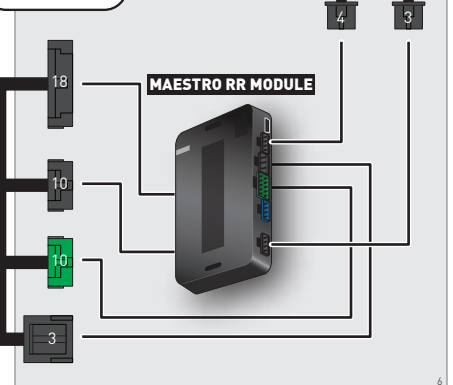
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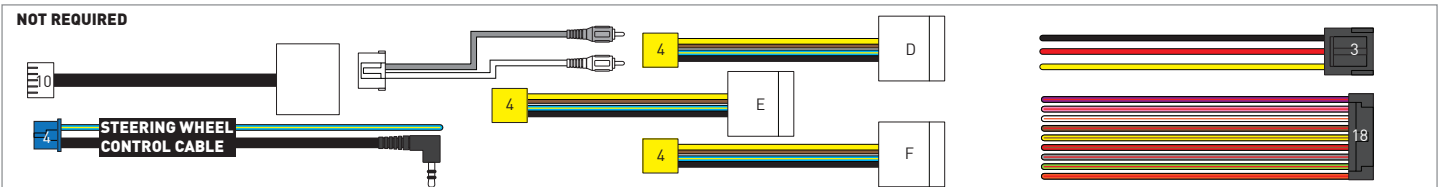
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# RADIO WIRE REFERENCE CHART

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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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

**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, FACTORY AMPLIFIER, AND MORE!



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iDataLink Maestro HRR-T01 Installation Harness

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ADS-RR(SR)-TOY01-DS

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[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1




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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.

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

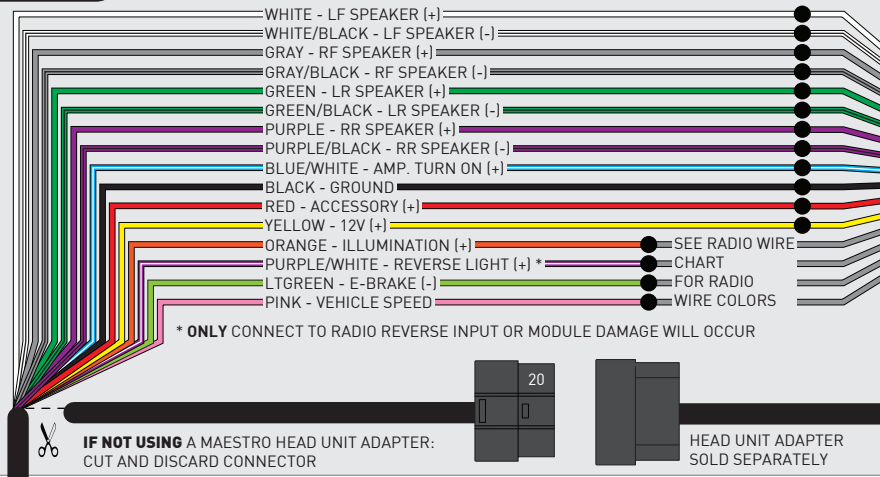
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

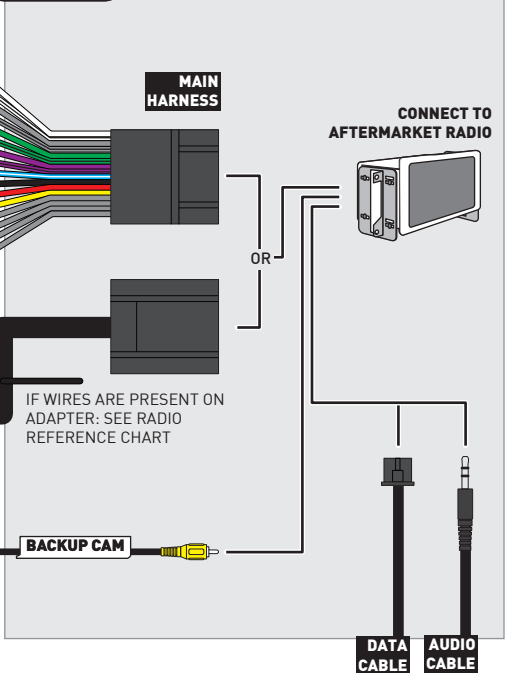
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

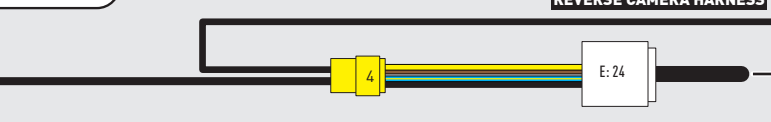
## STEP 1



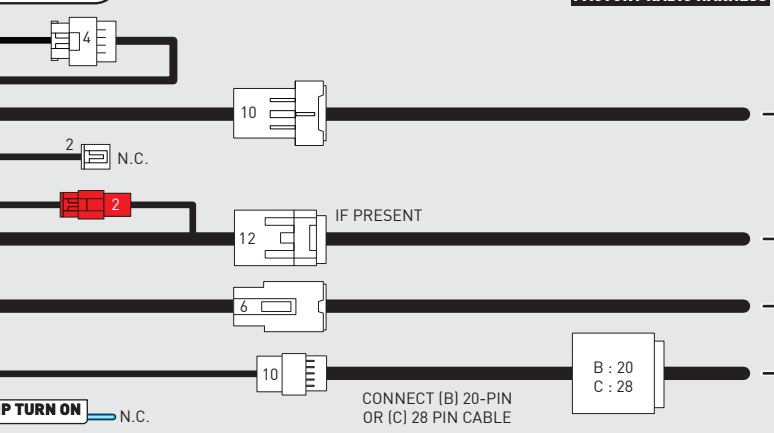
## STEP 5



## STEP 2



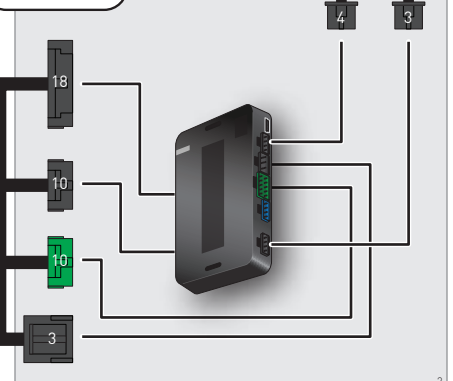
## STEP 3



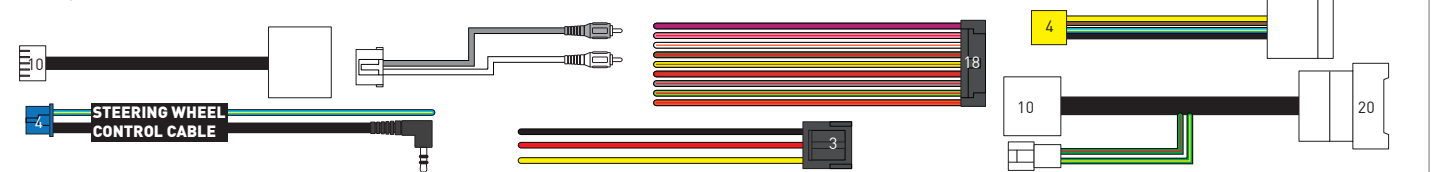
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

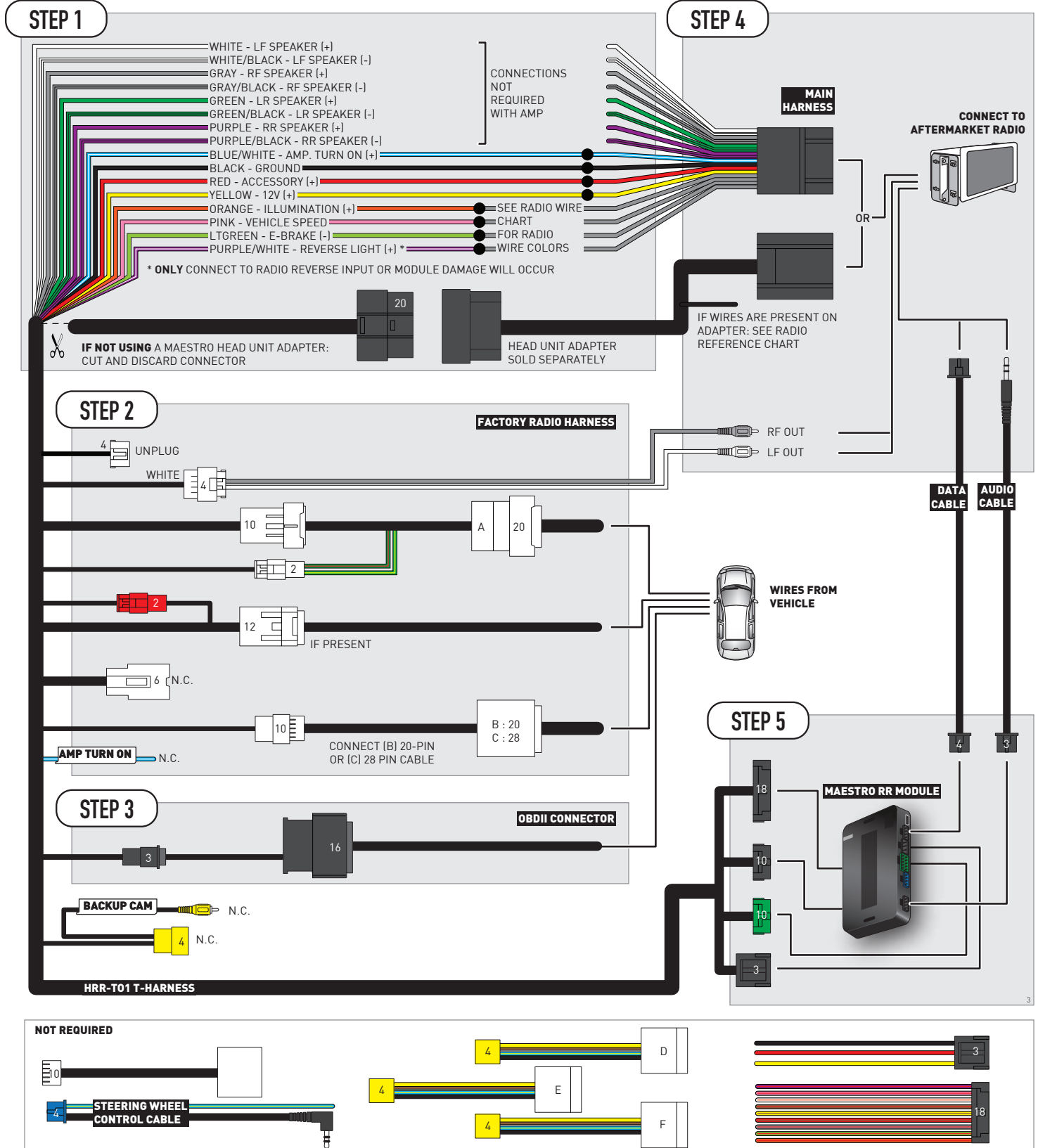
- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

## STEP 5

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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
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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.
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<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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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).

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

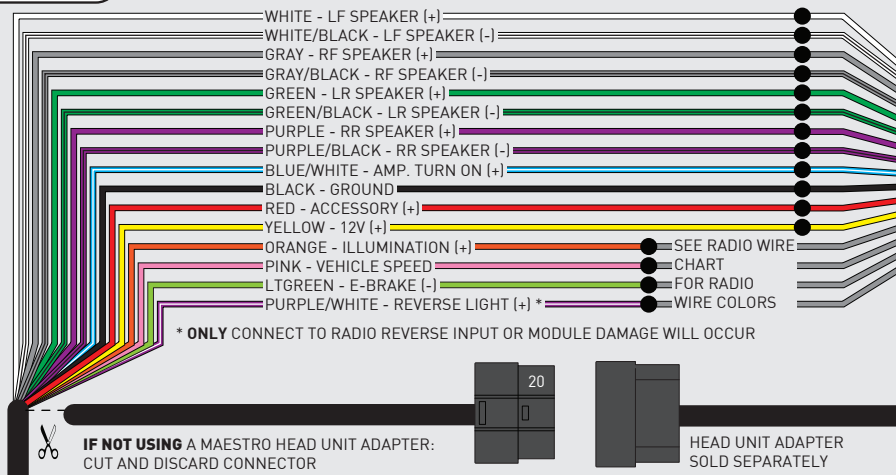
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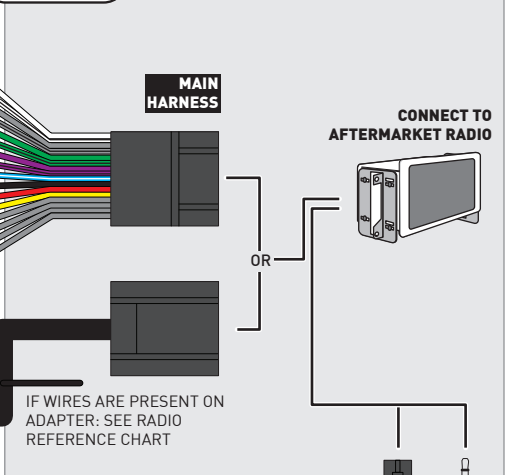


# WIRING DIAGRAM *without an Amplifier*

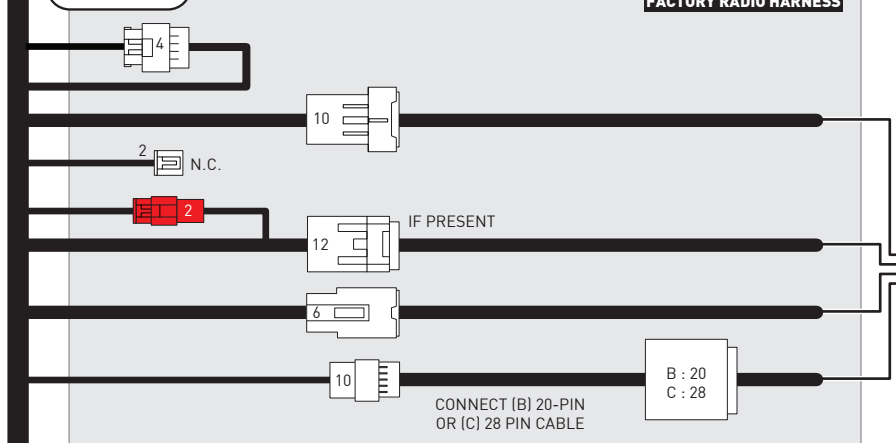
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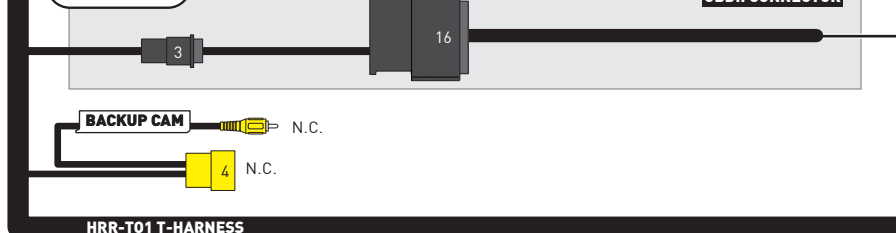
## STEP 4



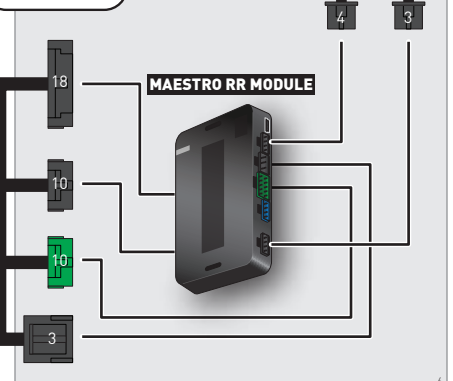
## STEP 2



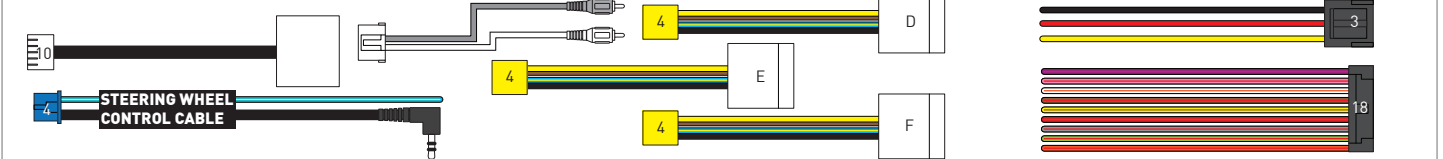
## STEP 3



## STEP 5



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# RADIO WIRE REFERENCE CHART

T01 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

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

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<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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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#### ADDITIONAL RESOURCES

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**K40**<sup>™</sup>  
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Click here for:  
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HEAD UNIT ADAPTER:  
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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

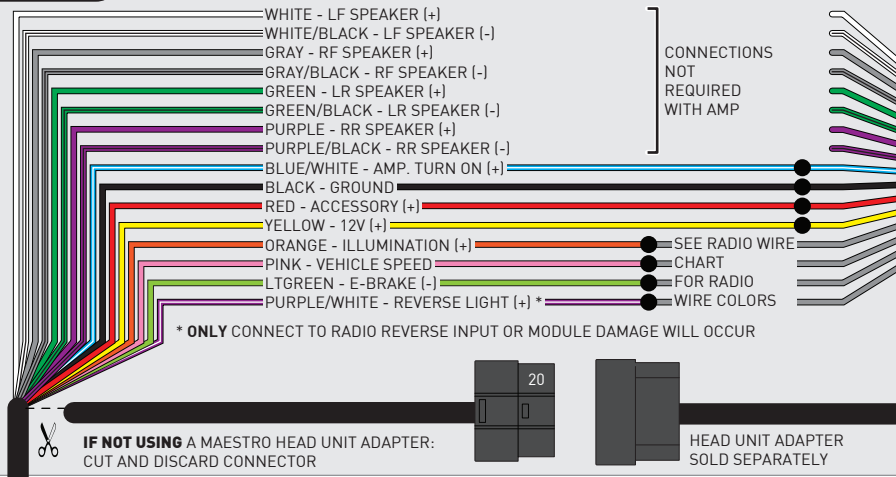
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

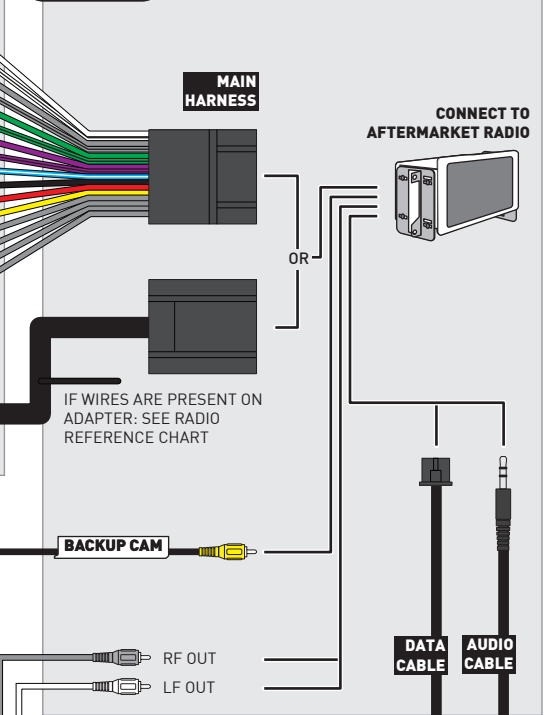
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

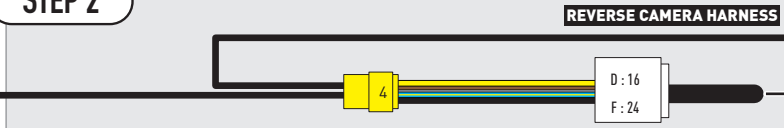
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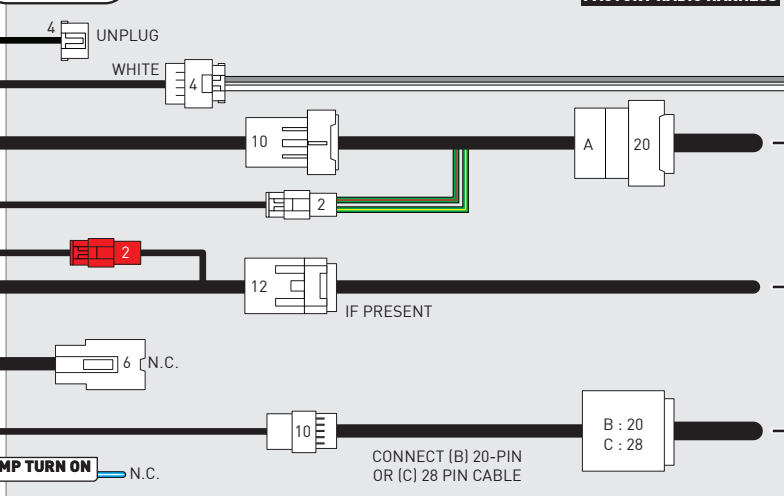
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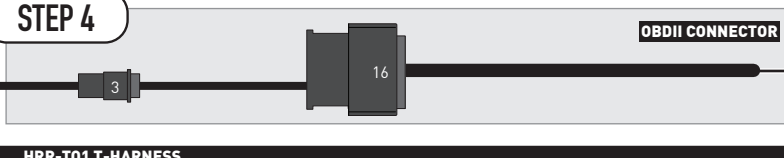
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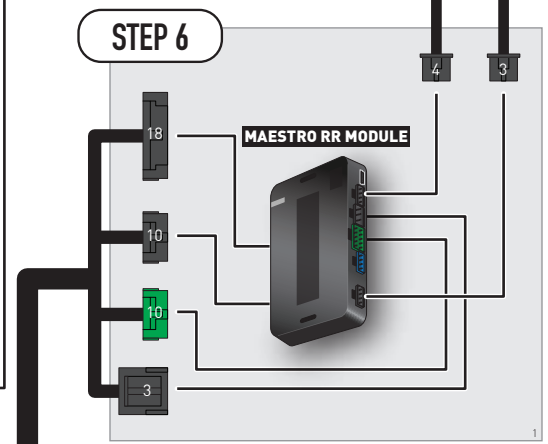
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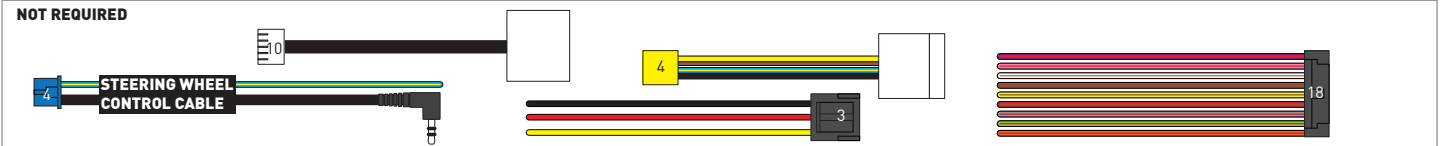
## STEP 4



## STEP 6



### NOT REQUIRED





# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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2013

TOYOTA HIGHLANDER  
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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iDatalink Maestro HRR-T01 Installation Harness

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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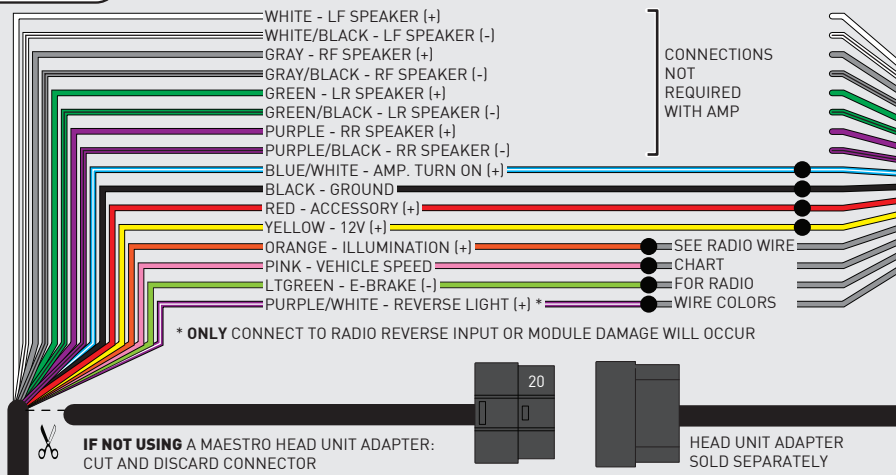
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

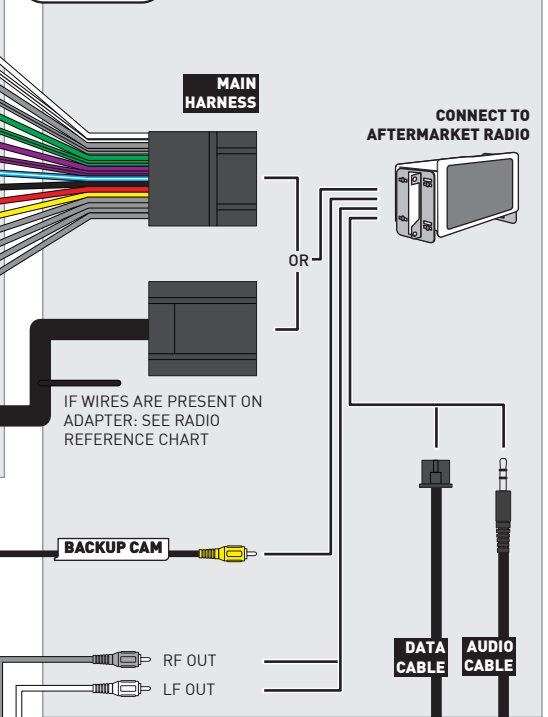
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

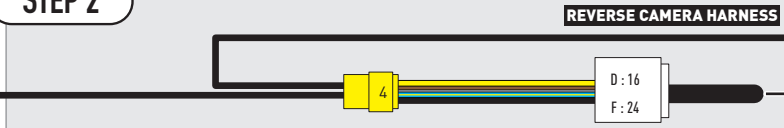
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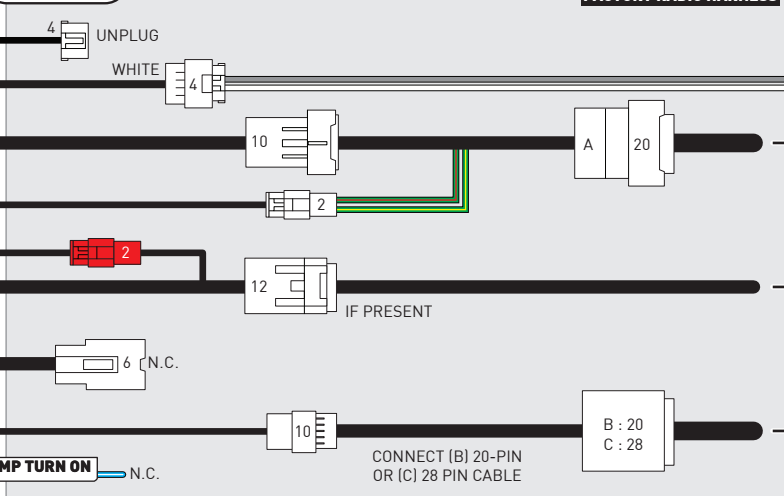
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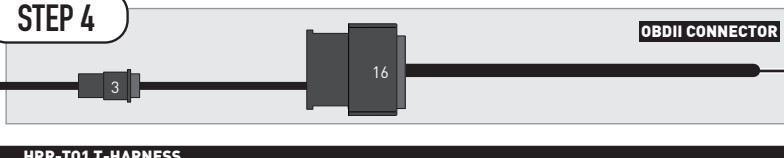
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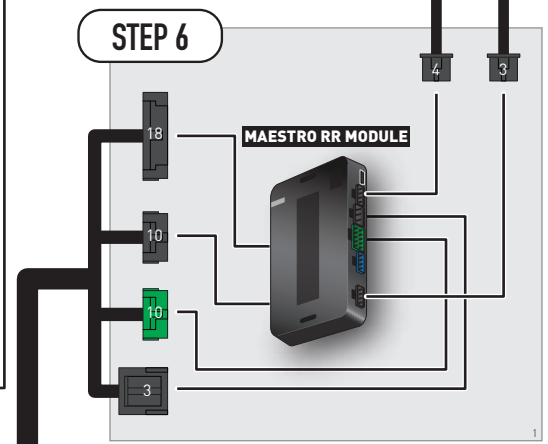
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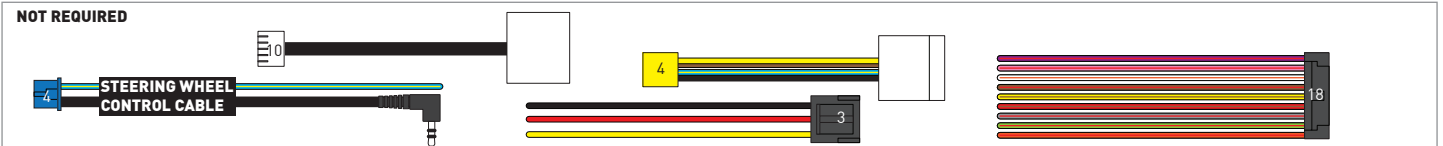
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# RADIO WIRE REFERENCE CHART

T01 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 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.
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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

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**If using head unit adapter (sold separately), connect HRR-T01 harness to adapter and skip to step 2.**

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## STEP 2

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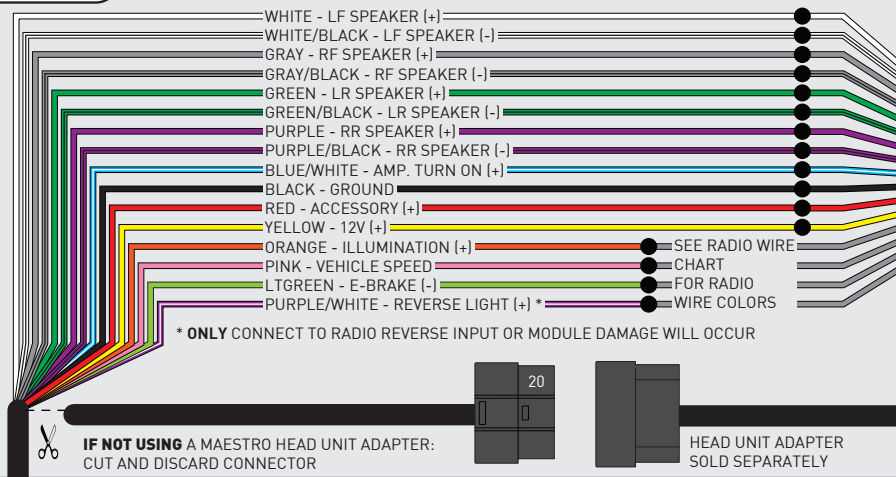
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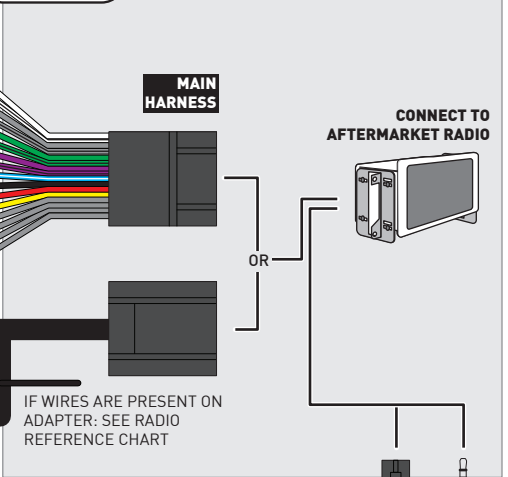
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# WIRING DIAGRAM *without an Amplifier*

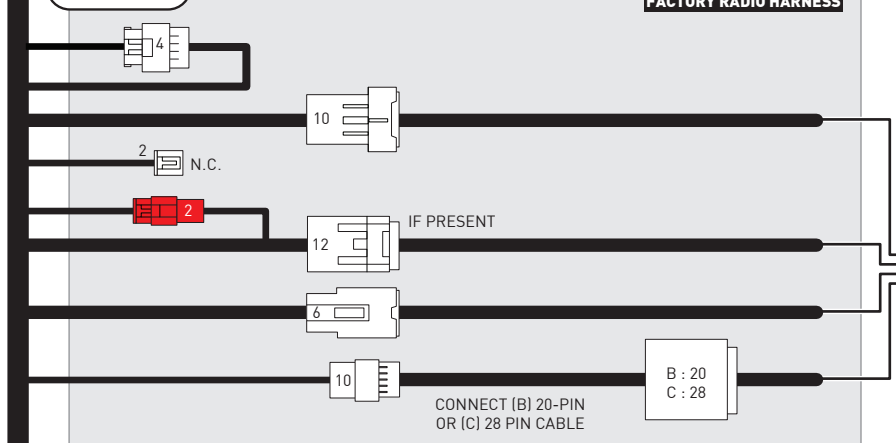
## STEP 1



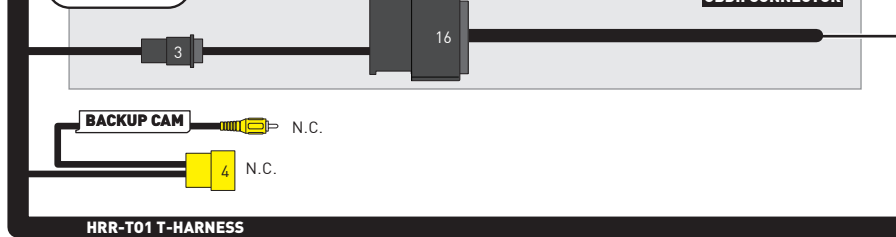
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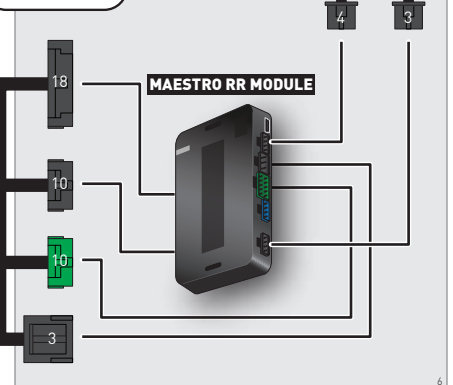
## STEP 2



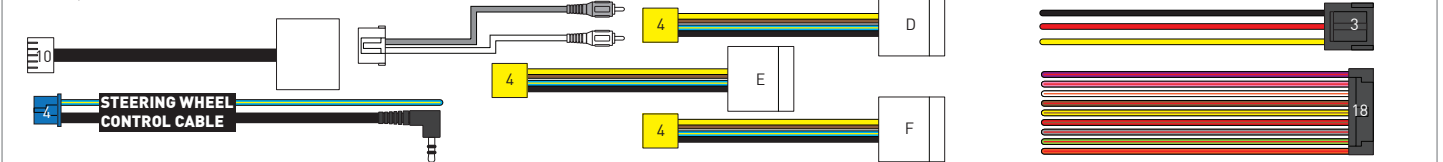
## STEP 3



## STEP 5



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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2013

TOYOTA HIGHLANDER  
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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iDatalink Maestro HRR-T01 Installation Harness

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#### ADDITIONAL RESOURCES

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

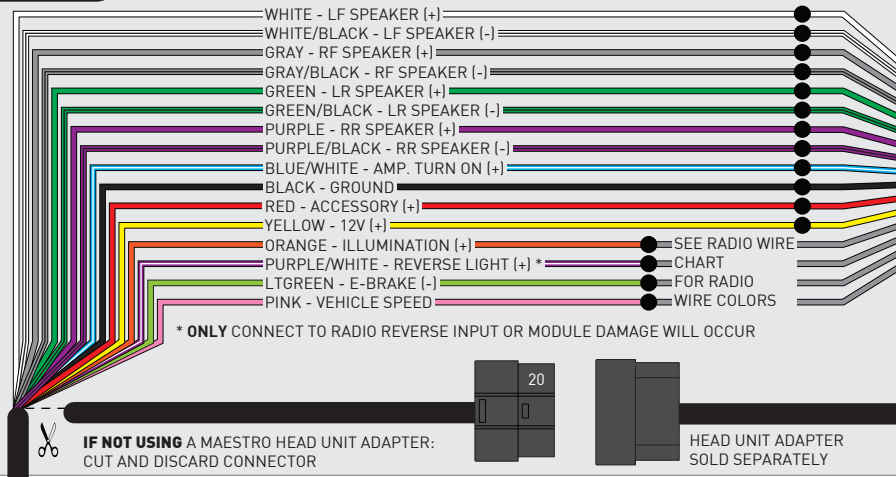
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

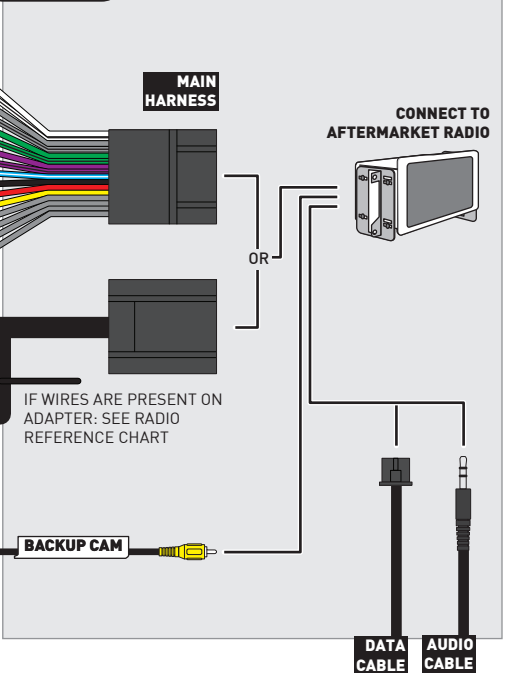
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

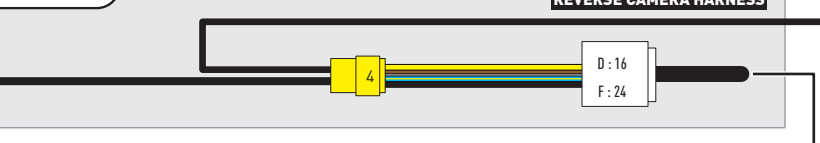
## STEP 1



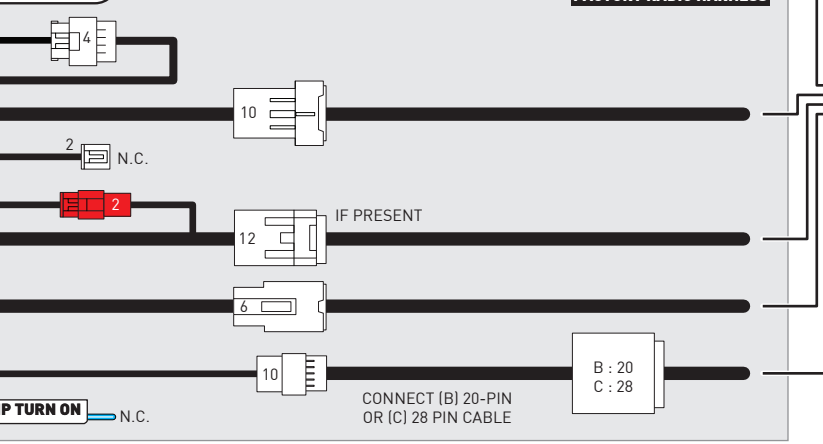
## STEP 5



## STEP 2



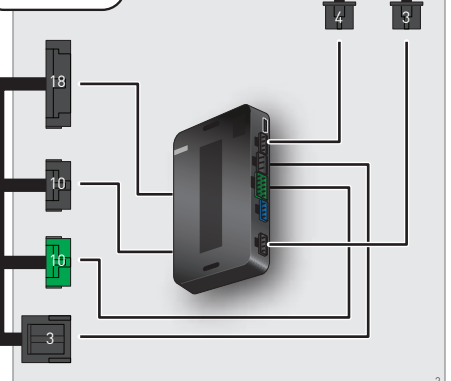
## STEP 3



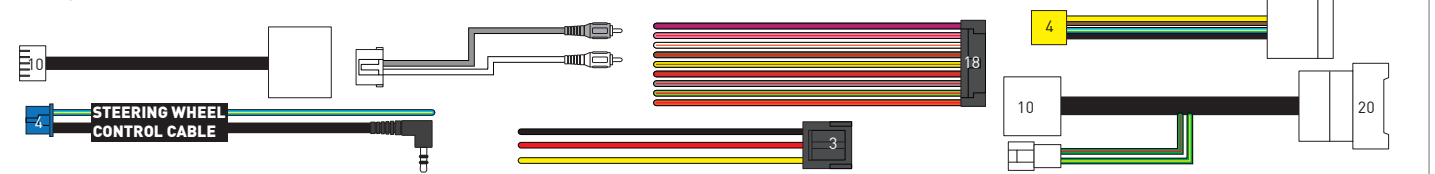
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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		OFF	Normal operation (inactive).

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# TROUBLESHOOTING TABLE

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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

- Plug the harnesses into the aftermarket radio.
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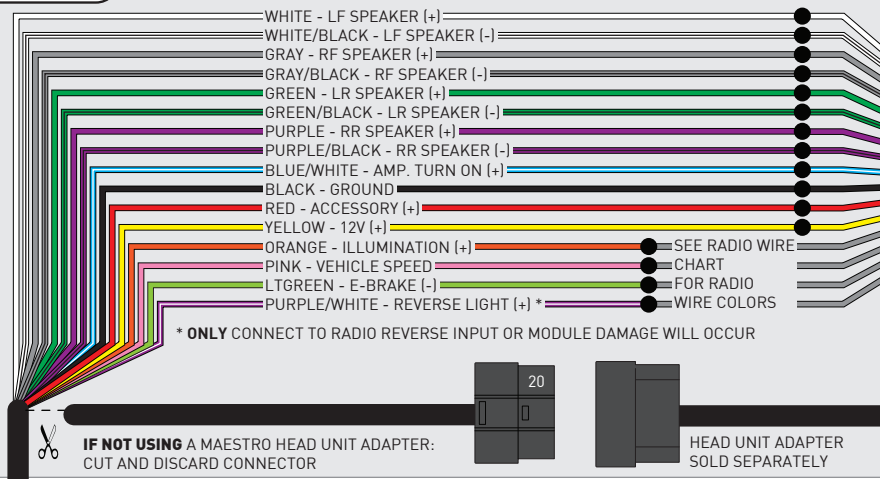
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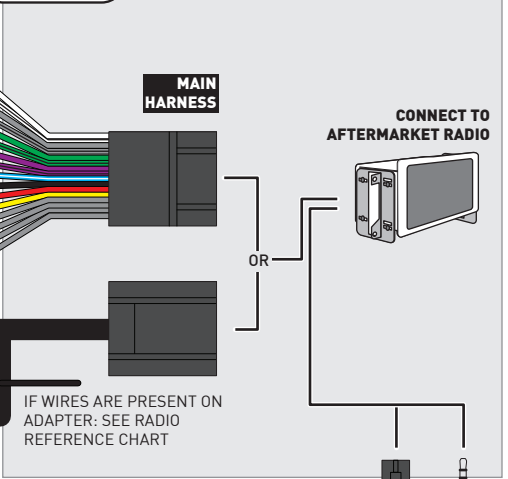
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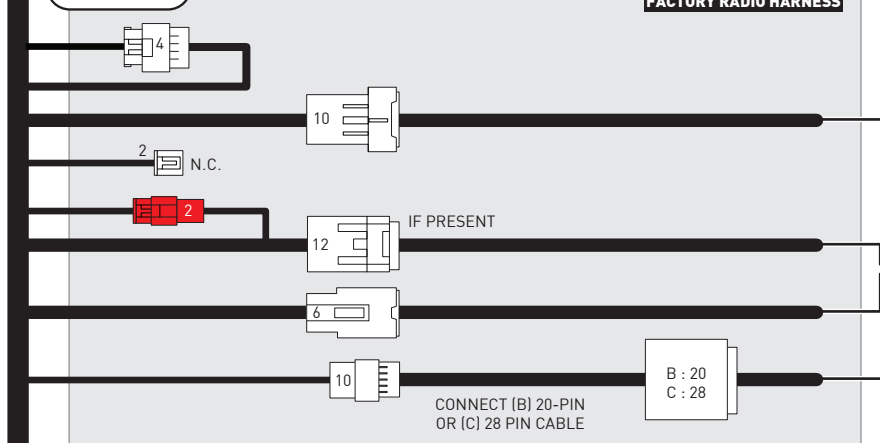
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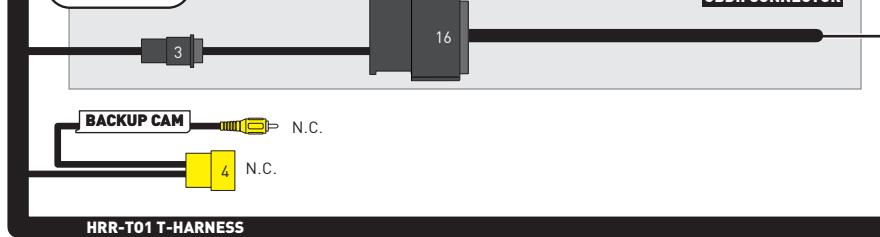
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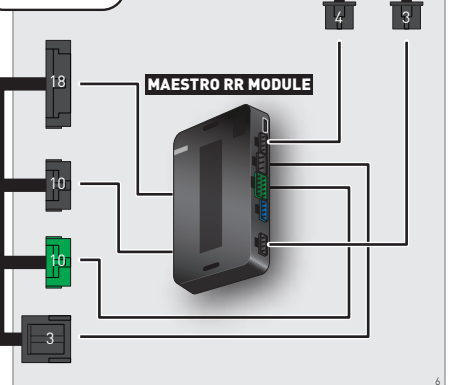
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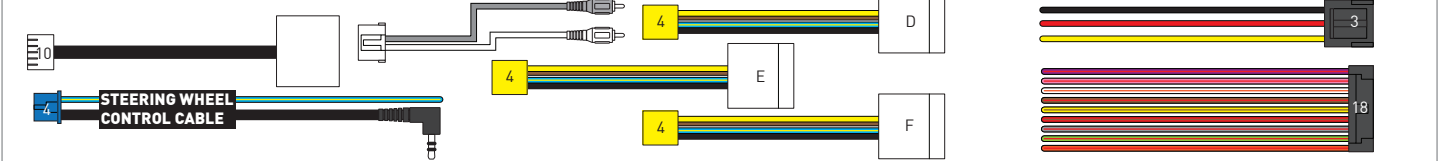
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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

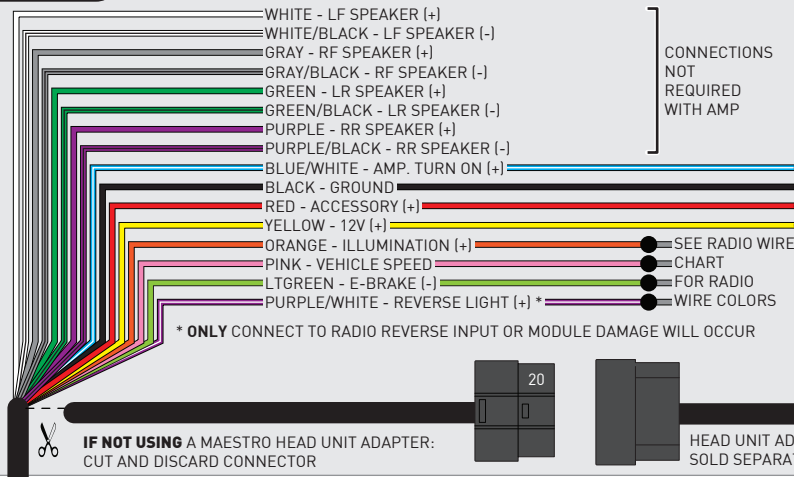
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

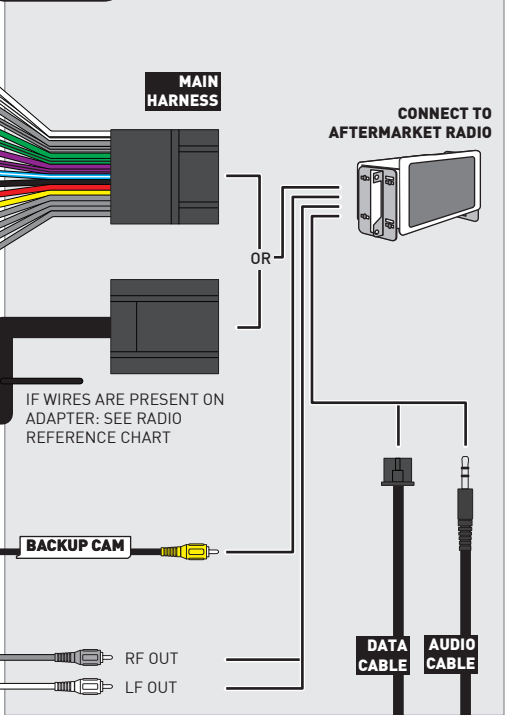
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

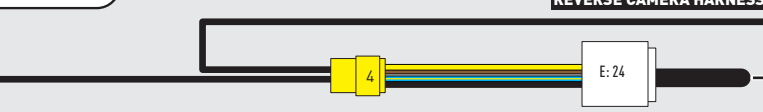
## STEP 1



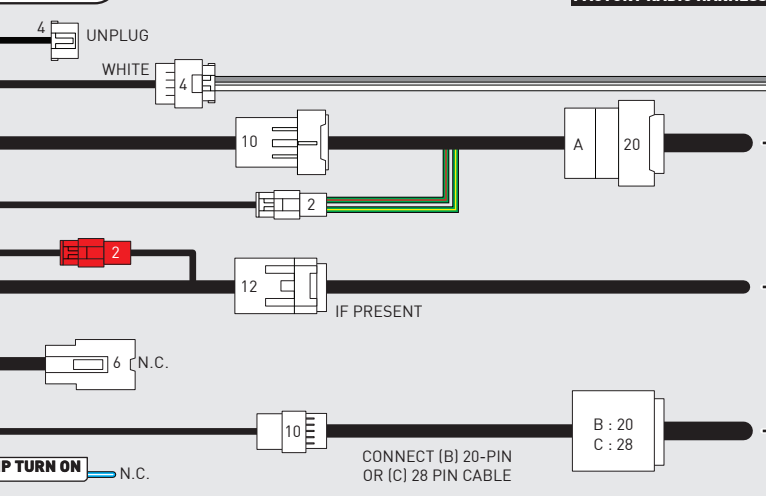
## STEP 5



## STEP 2



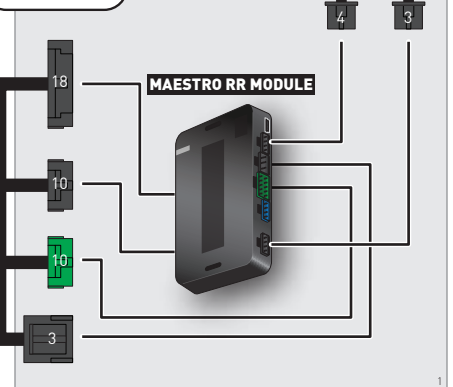
## STEP 3



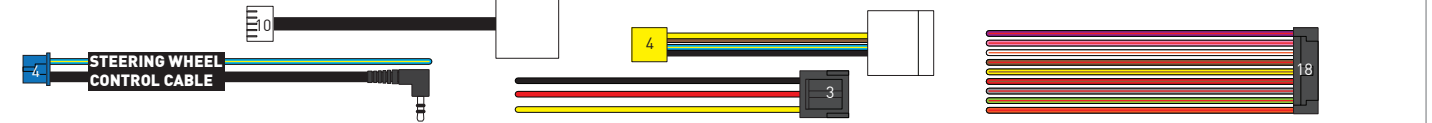
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.**

## TABLE OF CONTENTS

Installation Instructions	3
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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

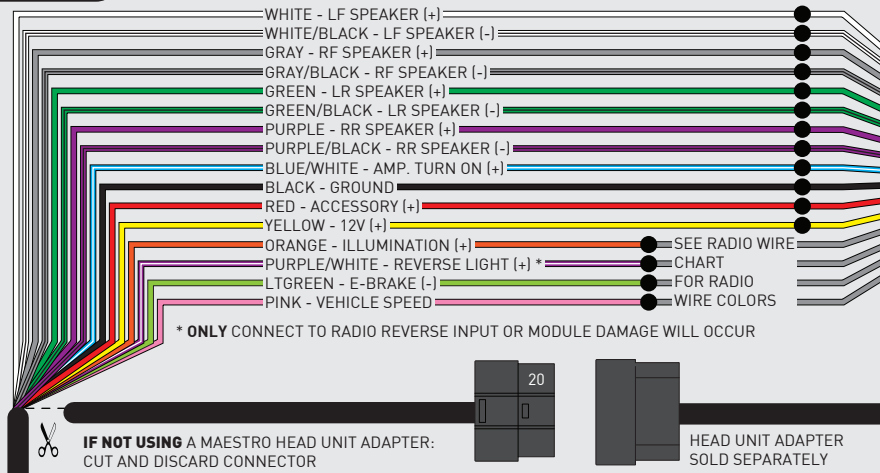
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

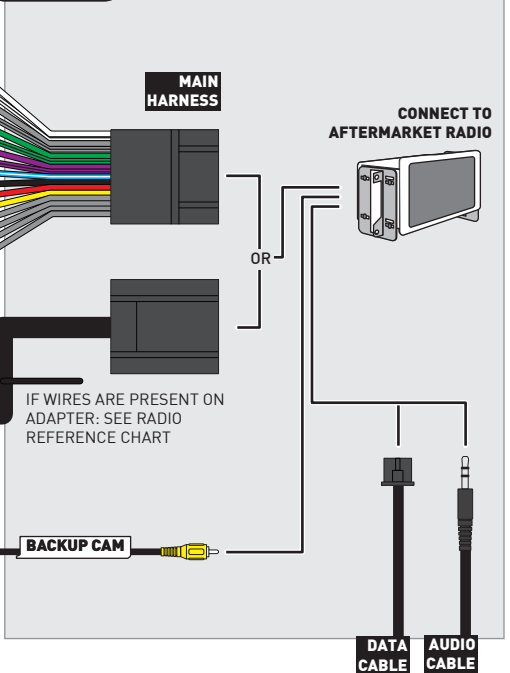
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

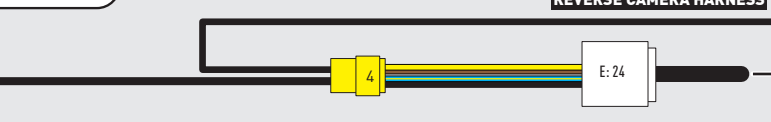
## STEP 1



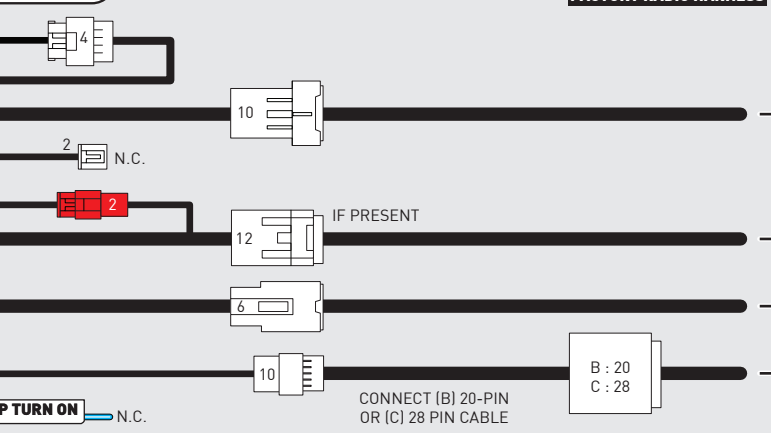
## STEP 5



## STEP 2



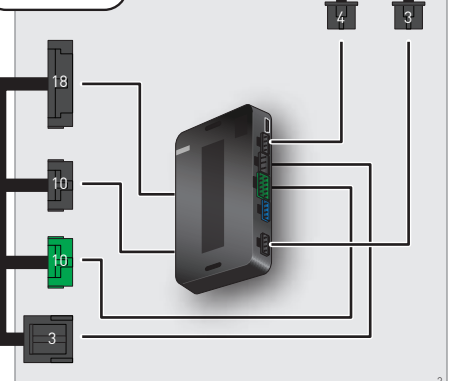
## STEP 3



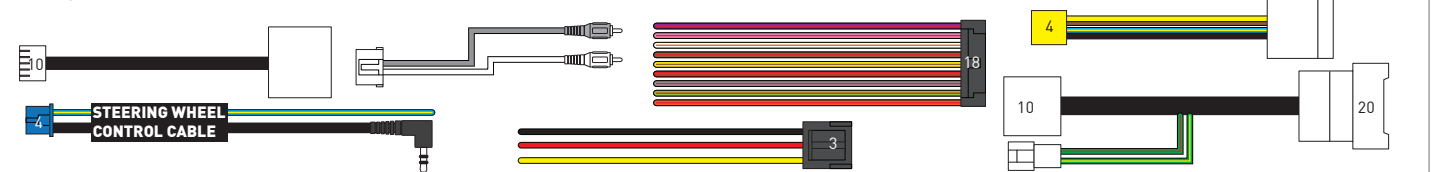
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

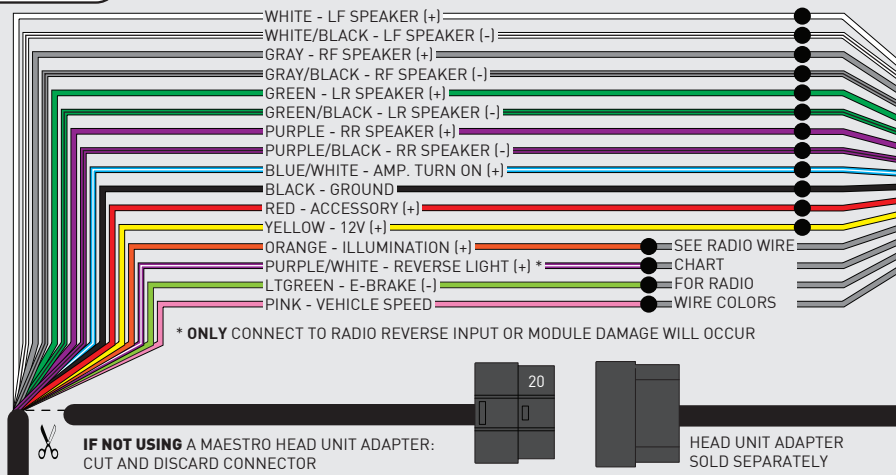
## STEP 6

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

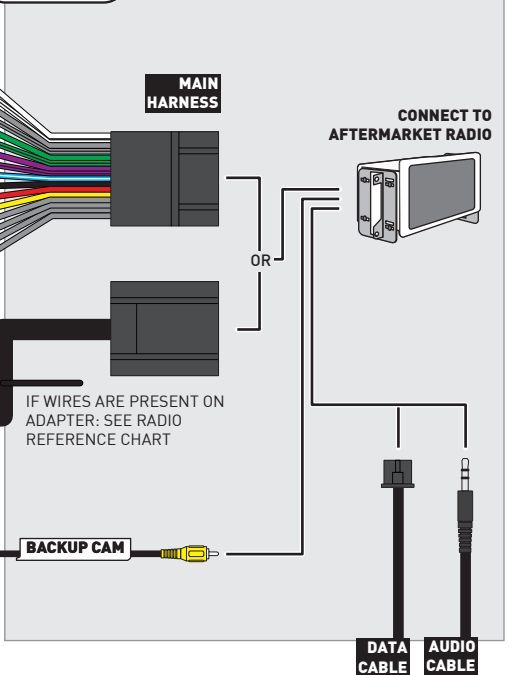


# WIRING DIAGRAM *without an Amplifier*

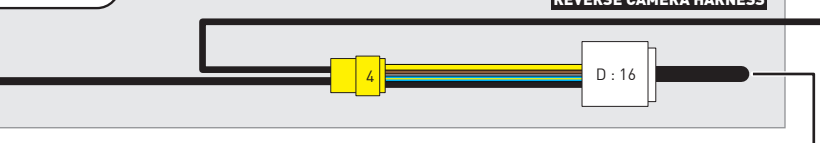
## STEP 1



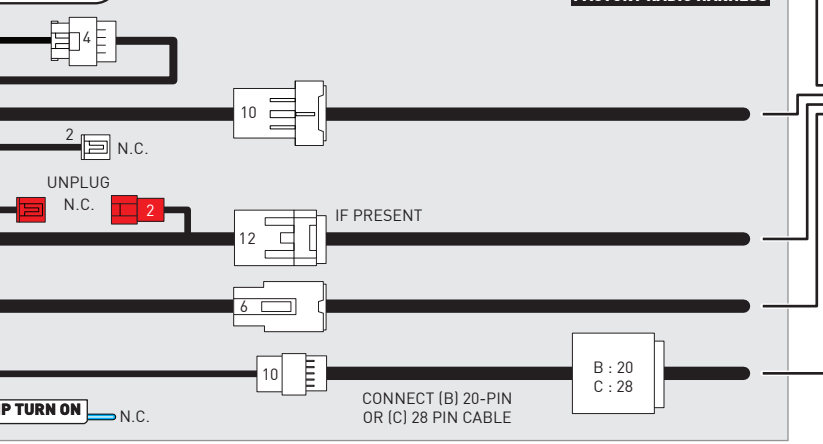
## STEP 5



## STEP 2



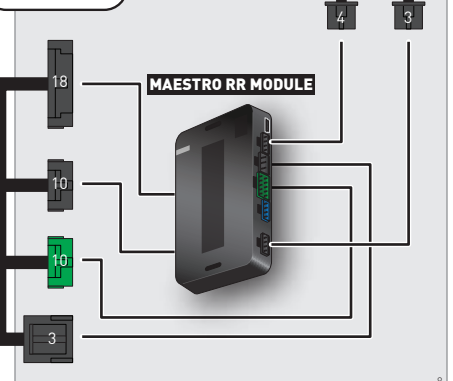
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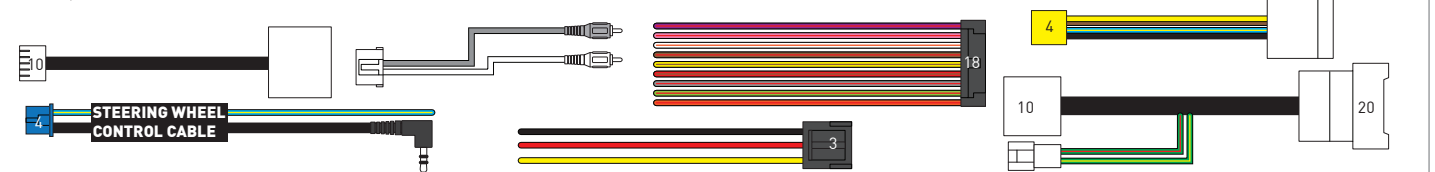
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		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
		2 RED flashes	Problem detected. Consult troubleshooting table.
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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES



Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

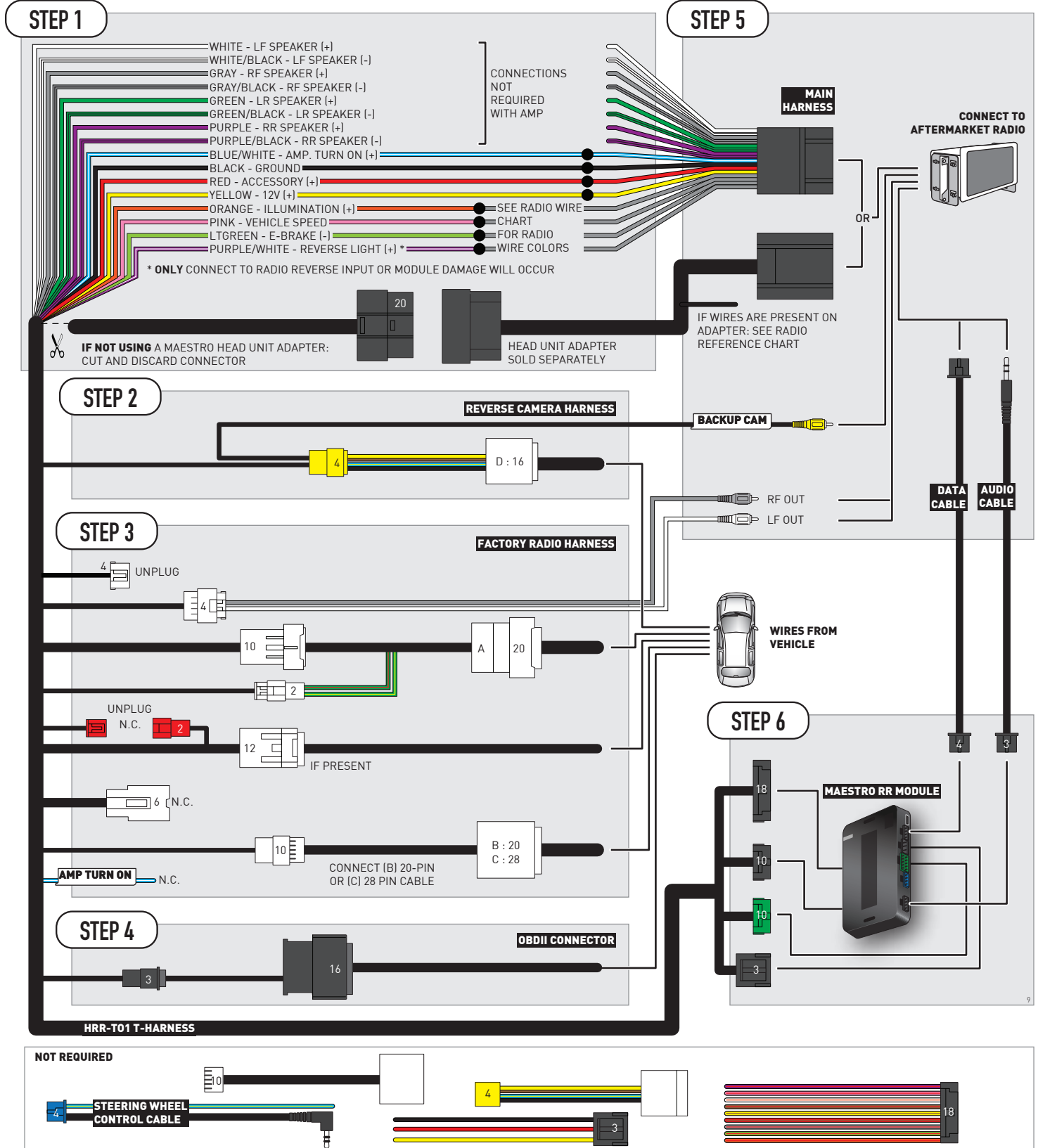
- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDataLink 3.5 mm audio jack of the aftermarket radio (if there is no iDataLink audio input, connect to AUX).

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

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*





# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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

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HEAD UNIT ADAPTER:  
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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

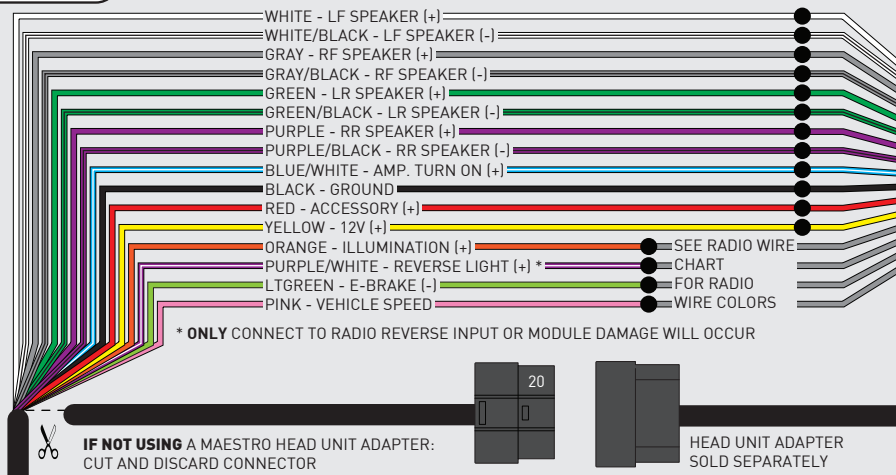
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

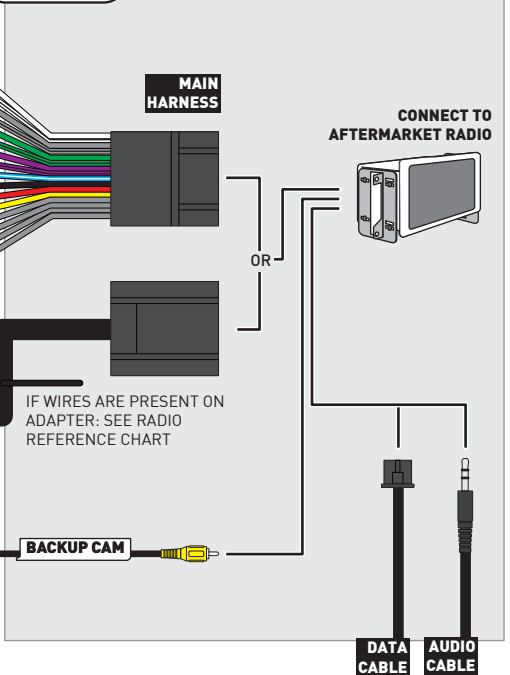
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

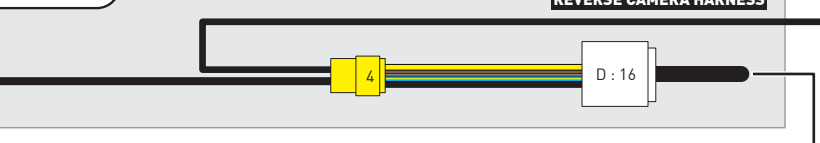
## STEP 1



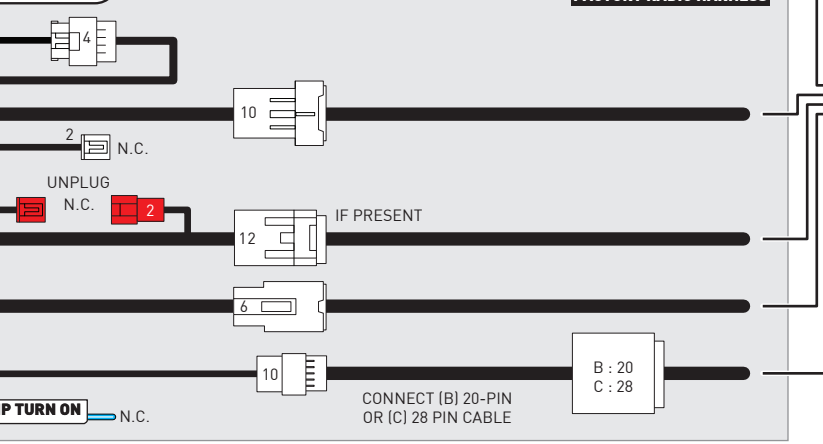
## STEP 5



## STEP 2



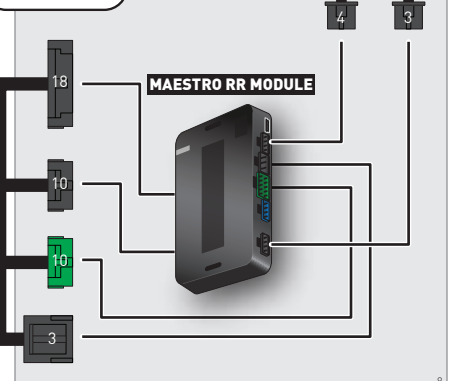
## STEP 3



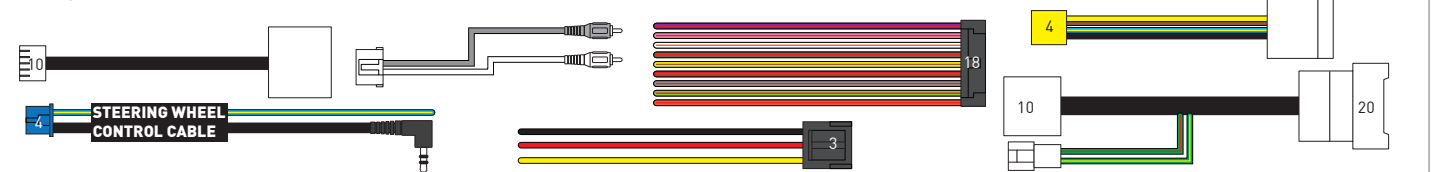
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

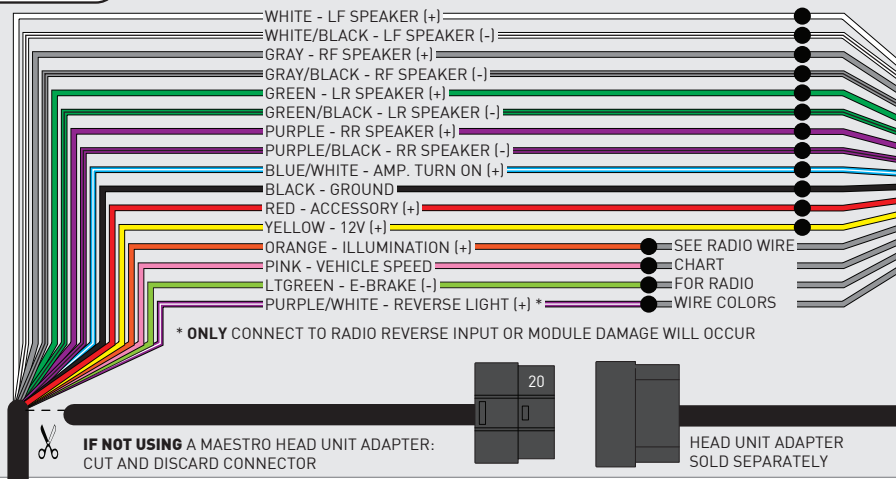
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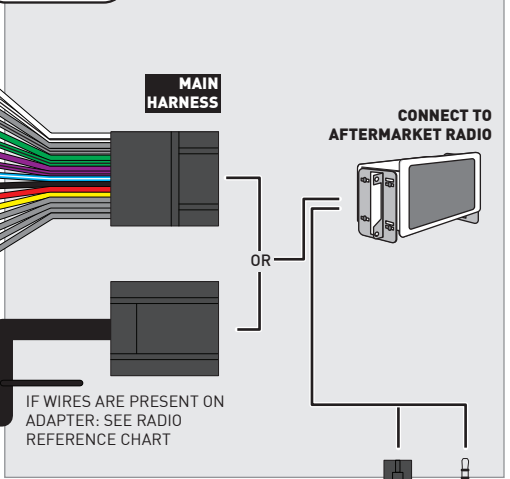
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# WIRING DIAGRAM *without an Amplifier*

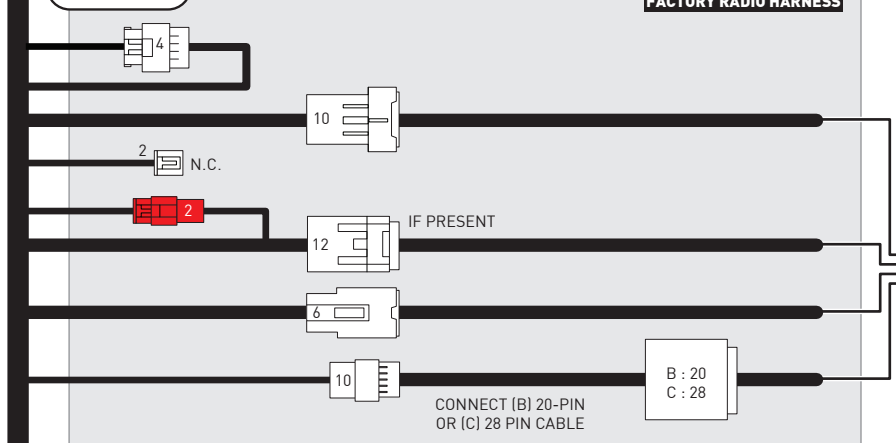
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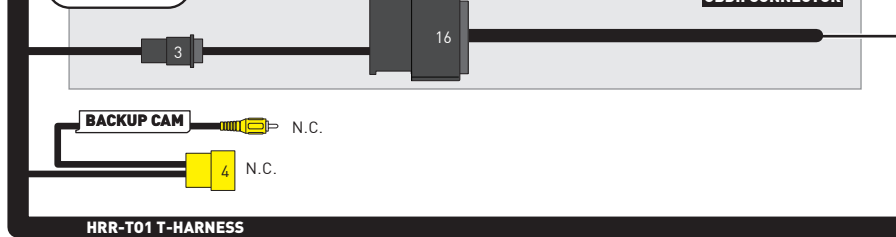
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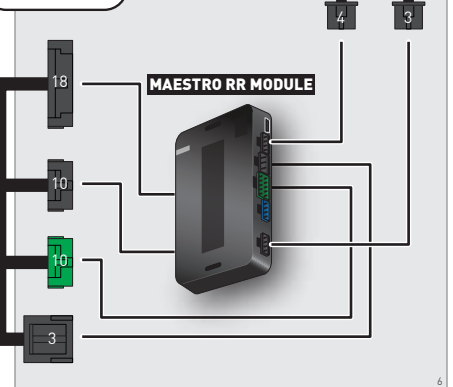
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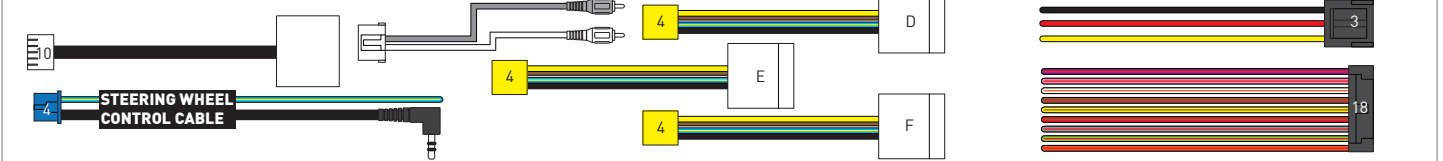
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# RADIO WIRE REFERENCE CHART

T01 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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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# WELCOME

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

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

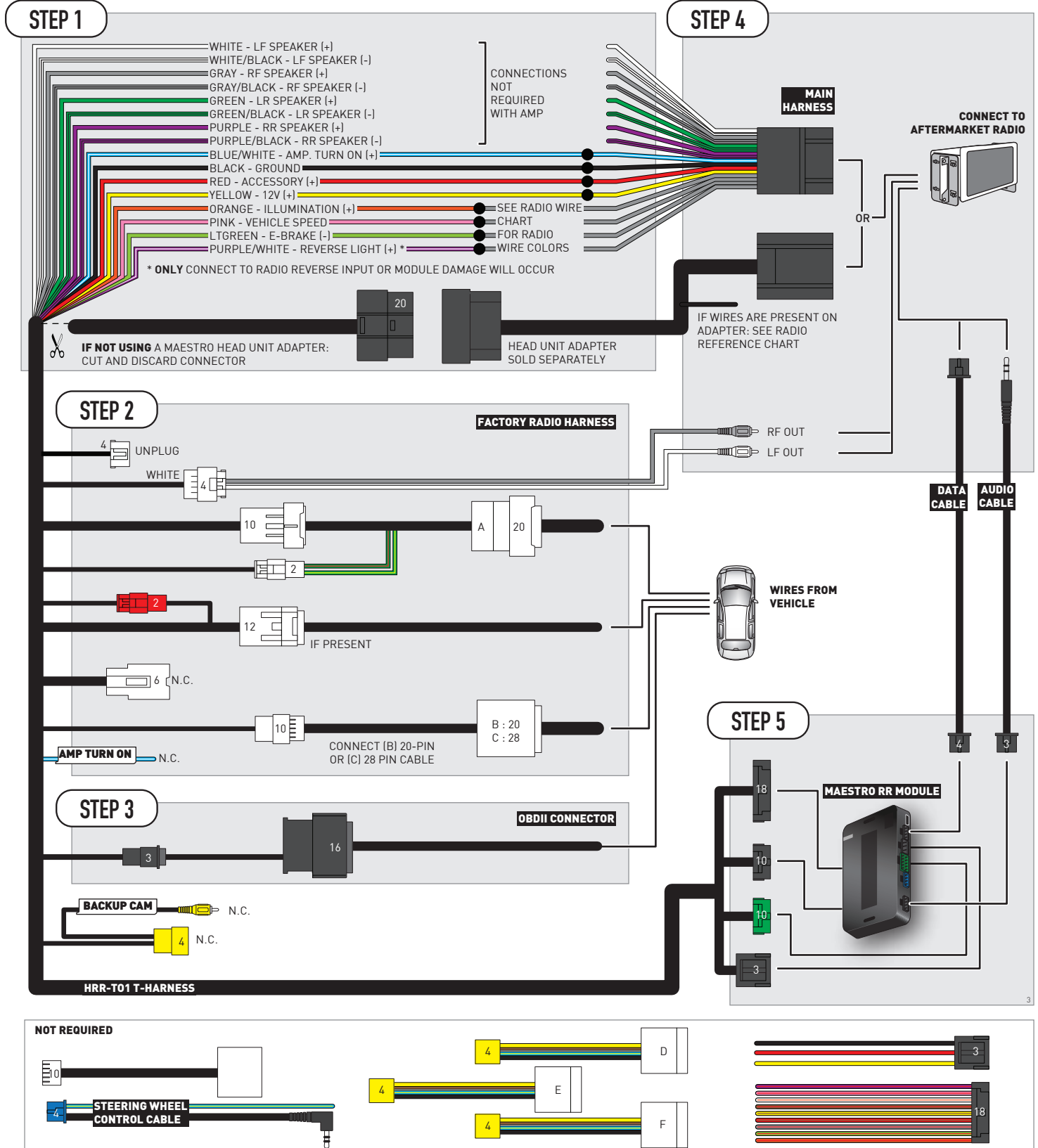
- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

## STEP 5

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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2006-2011  
TOYOTA RAV 4  
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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#### ADDITIONAL RESOURCES

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

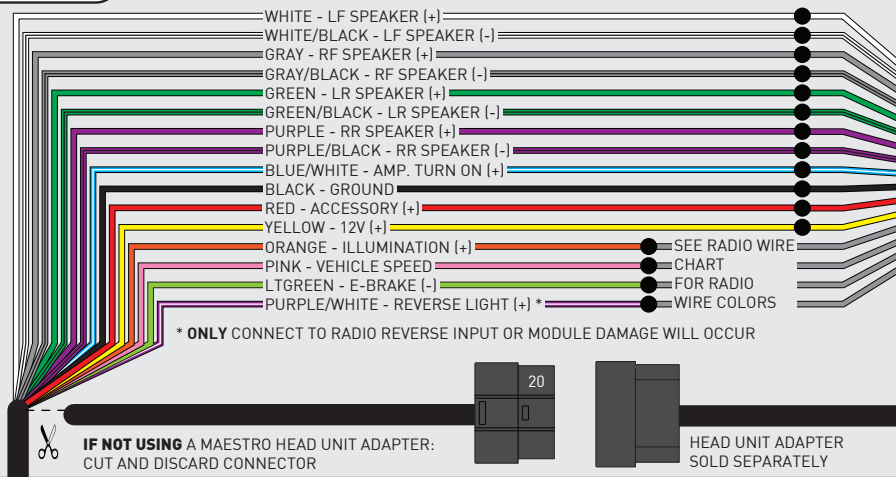
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

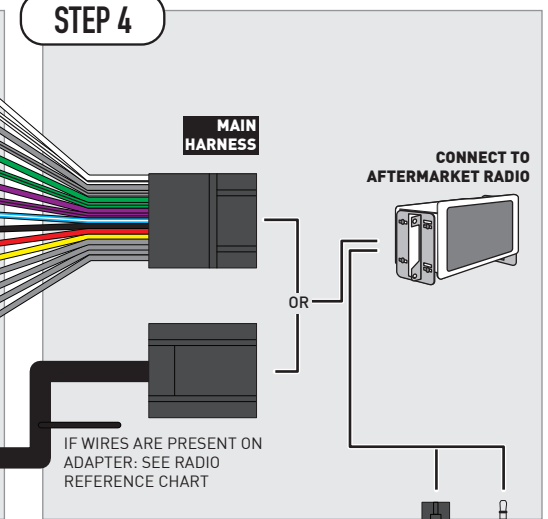
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

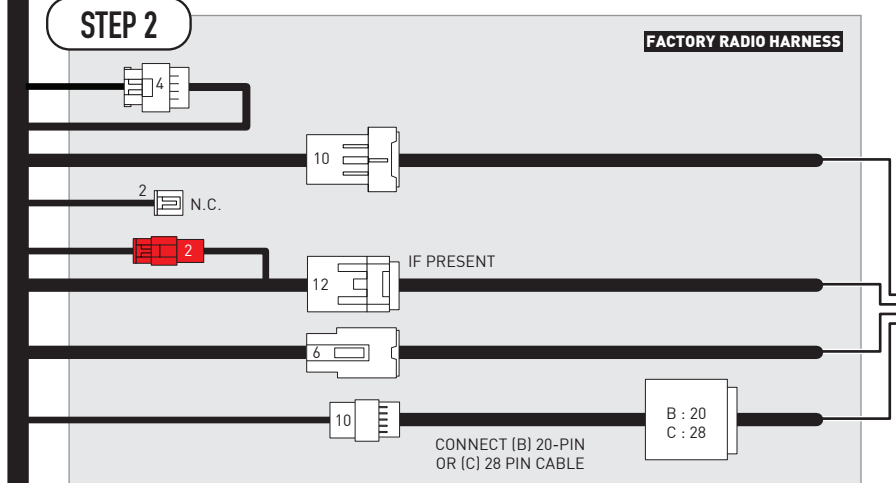
## STEP 1



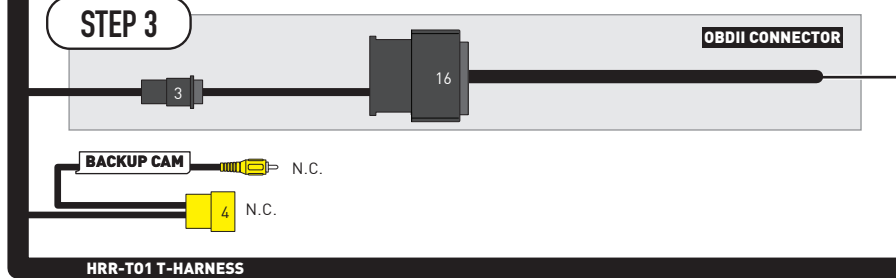
## STEP 4



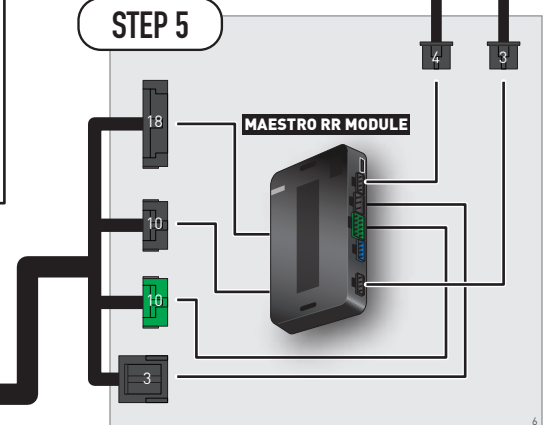
## STEP 2



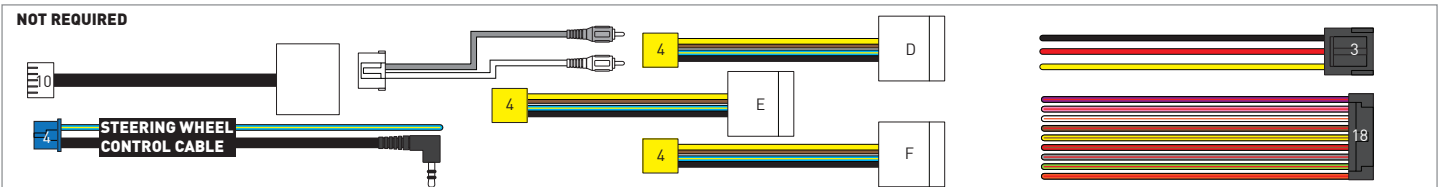
## STEP 3



## STEP 5



## NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

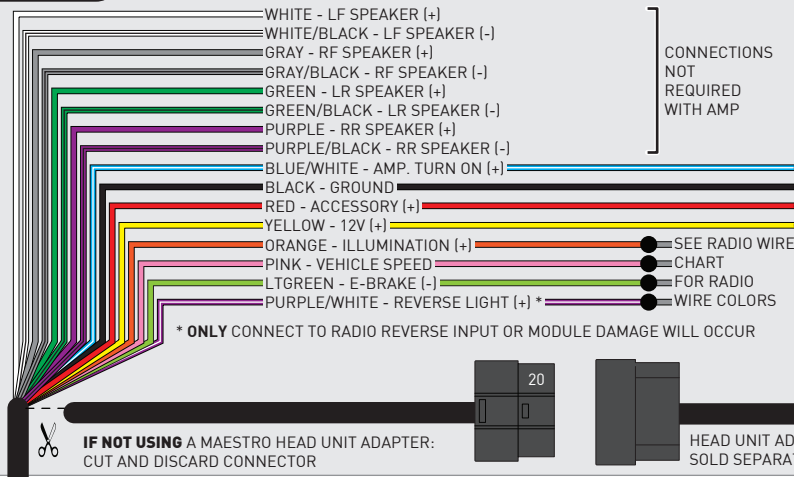
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

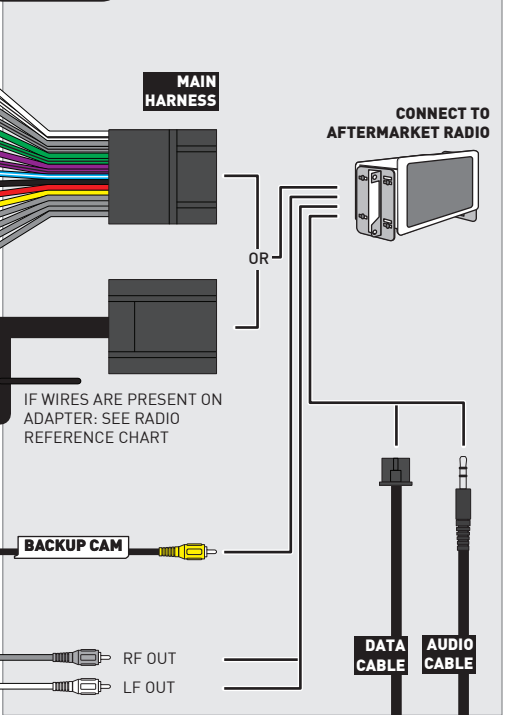
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

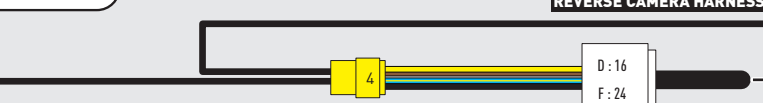
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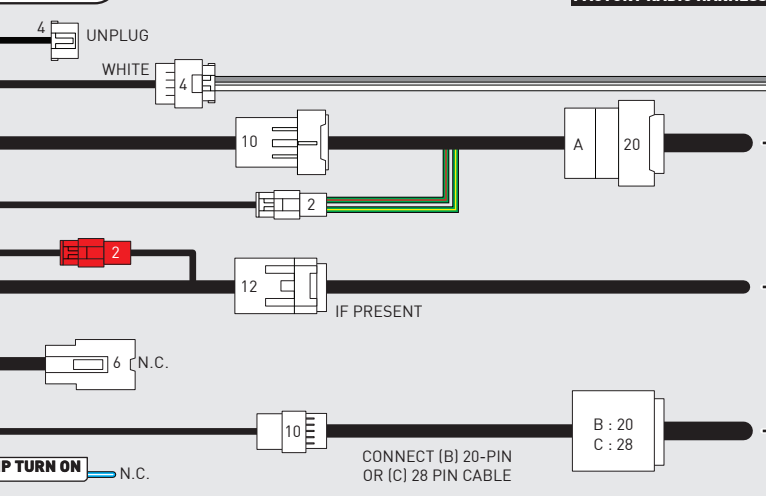
## STEP 5



## STEP 2



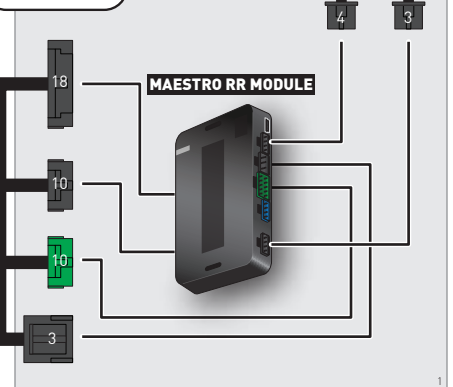
## STEP 3



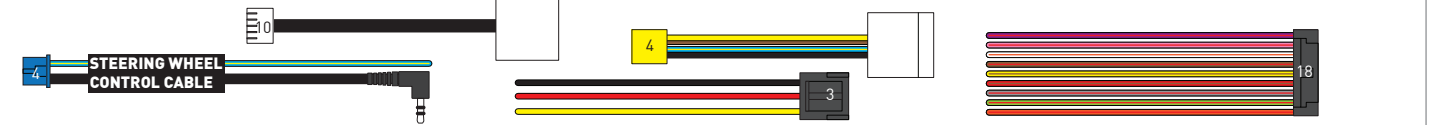
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## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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

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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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		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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

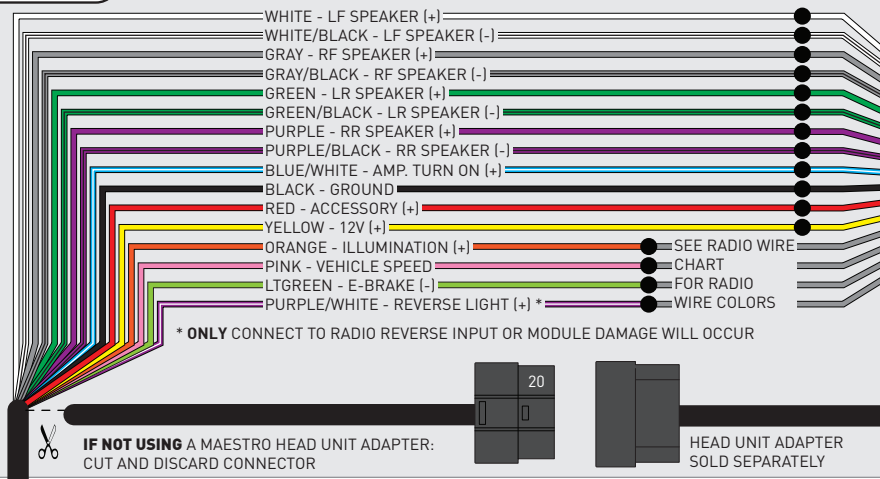
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

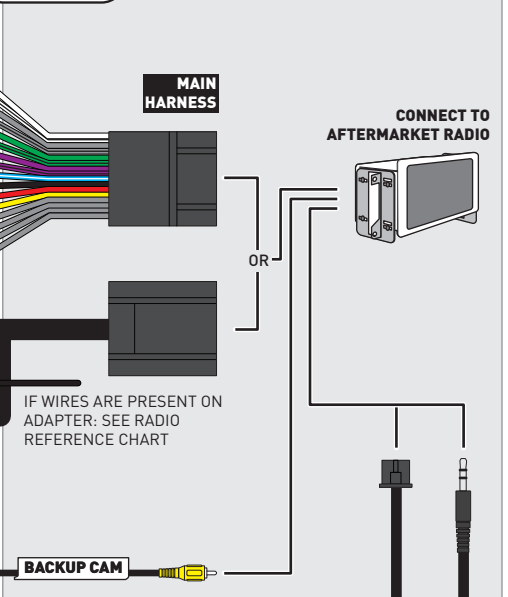
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

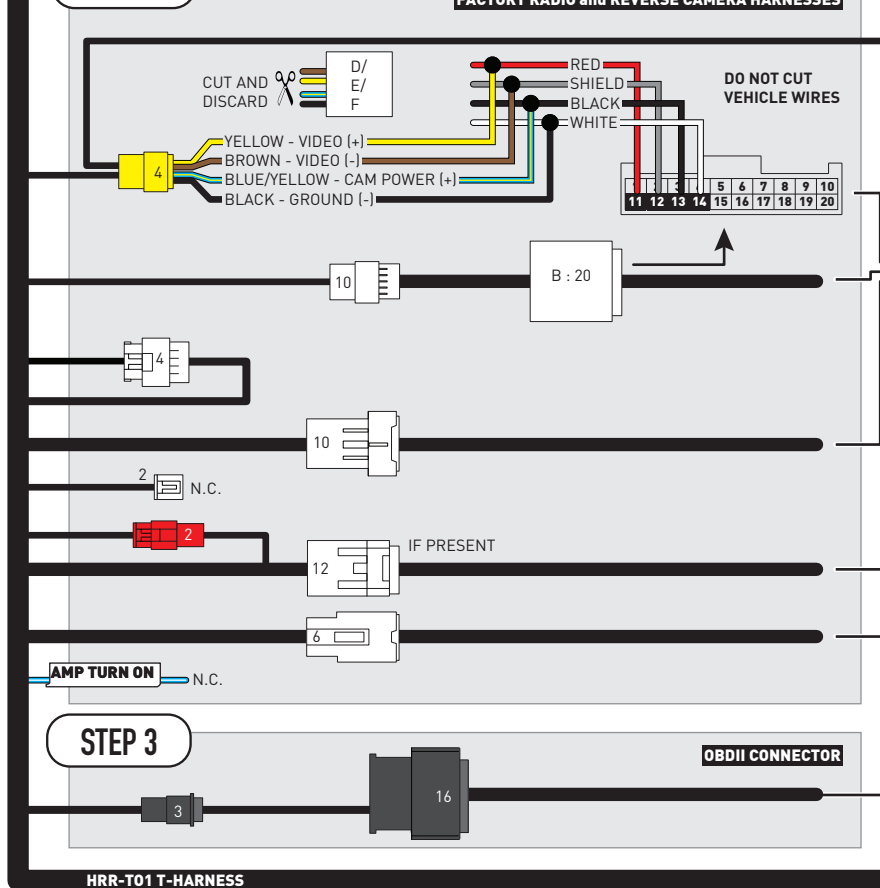
## STEP 1



## STEP 4

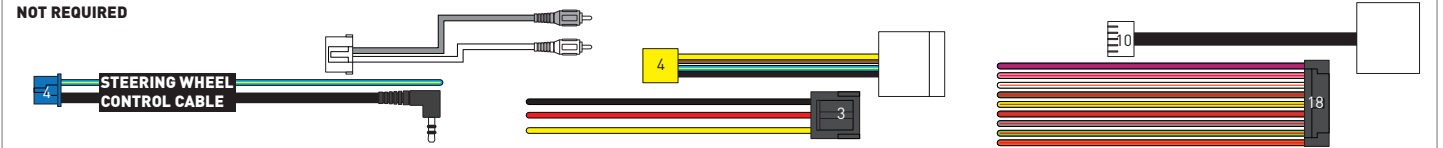
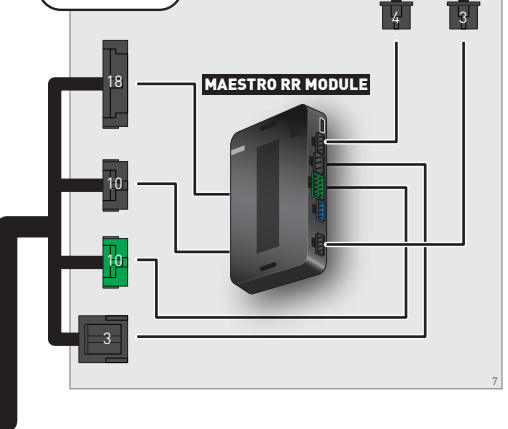


## STEP 2



## STEP 3

## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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.
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		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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

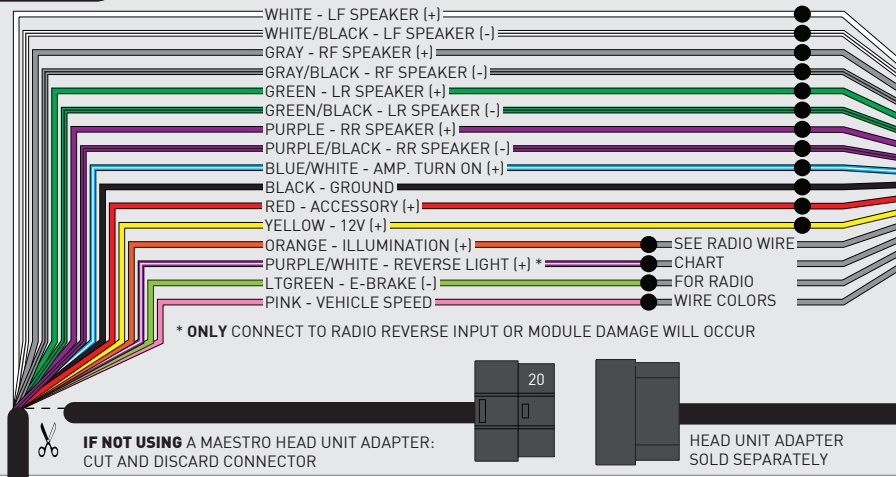
## STEP 6

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

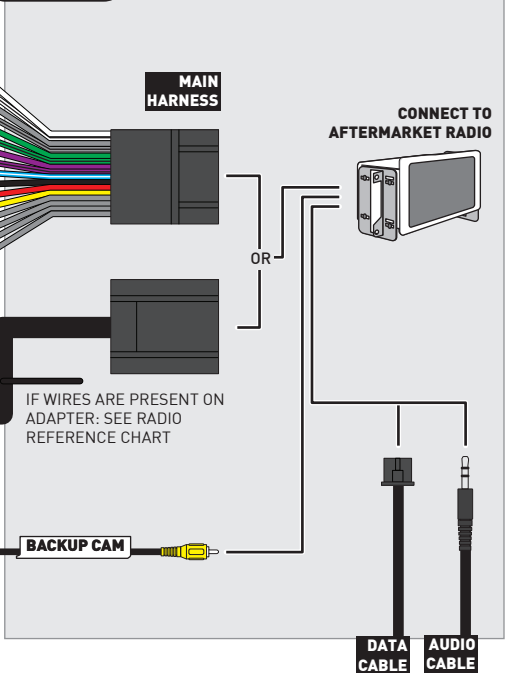


# WIRING DIAGRAM *without an Amplifier*

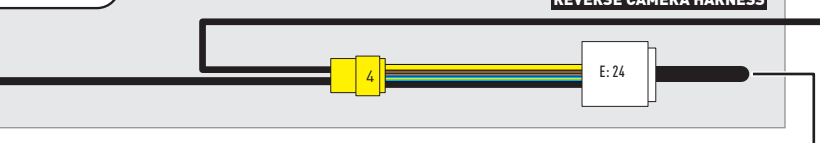
## STEP 1



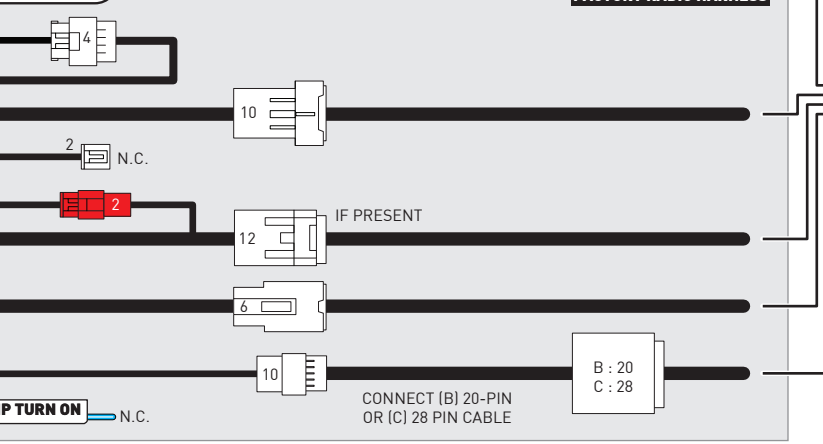
## STEP 5



## STEP 2



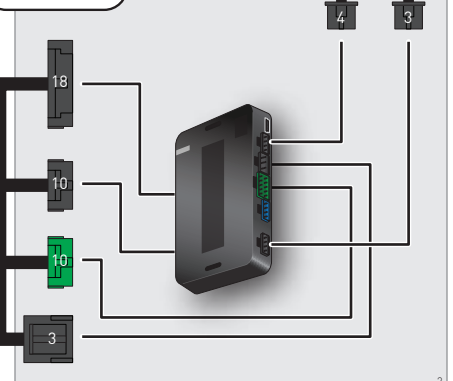
## STEP 3



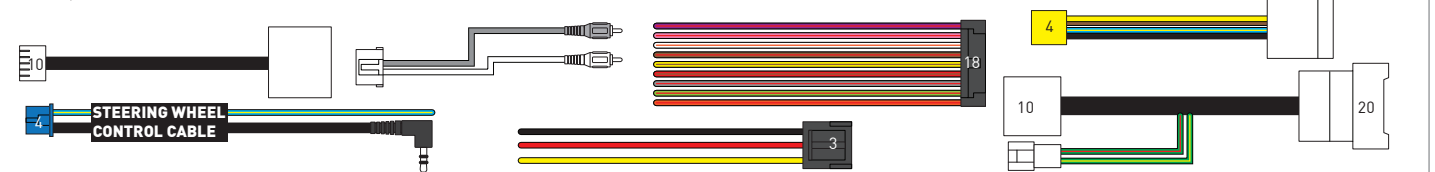
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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
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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.

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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.
		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII 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>
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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

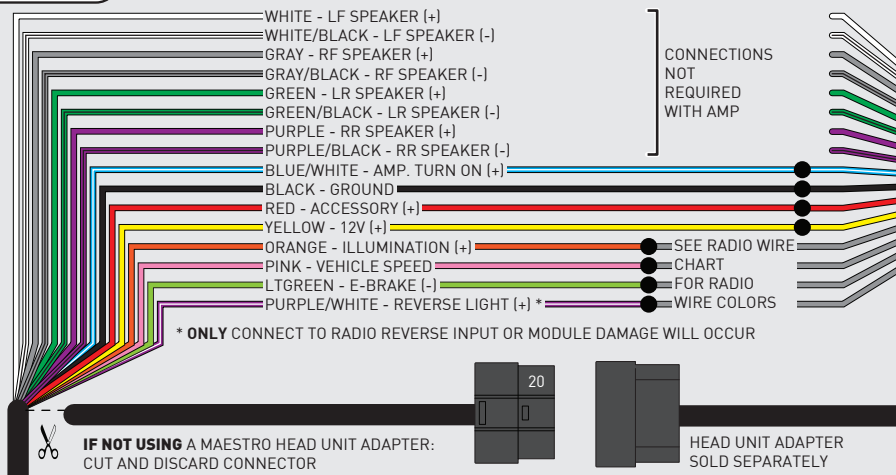
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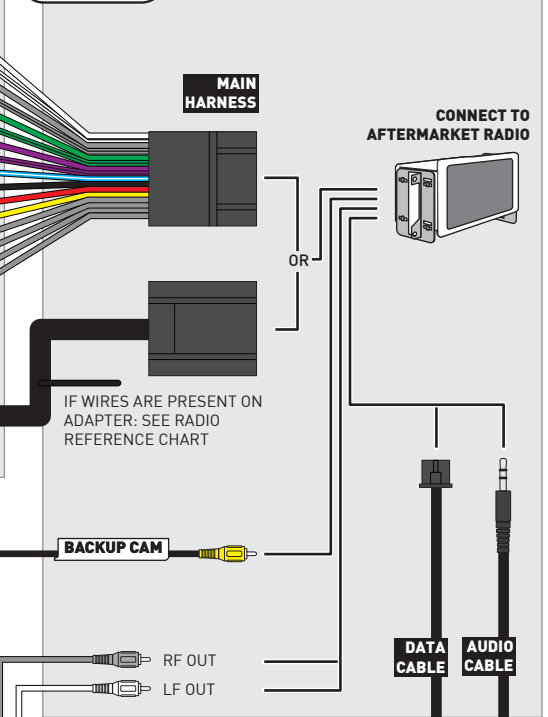
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# WIRING DIAGRAM *with an Amplifier*

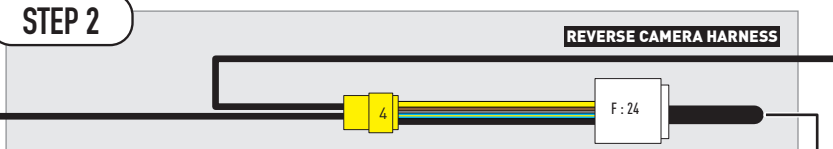
## STEP 1



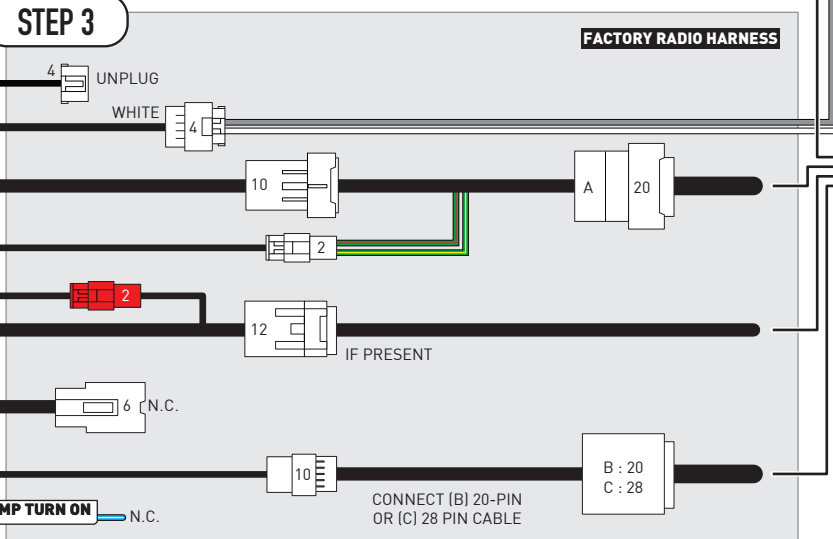
## STEP 5



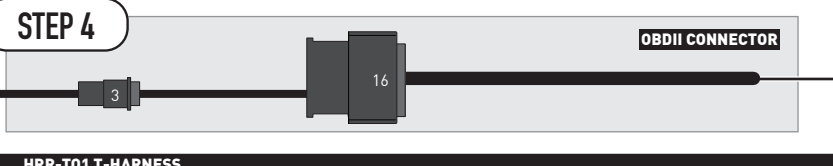
## STEP 2



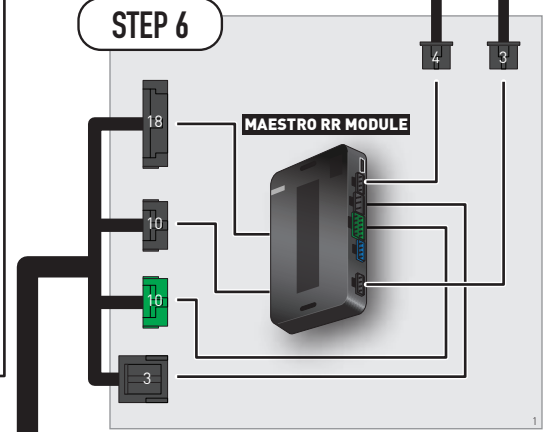
## STEP 3



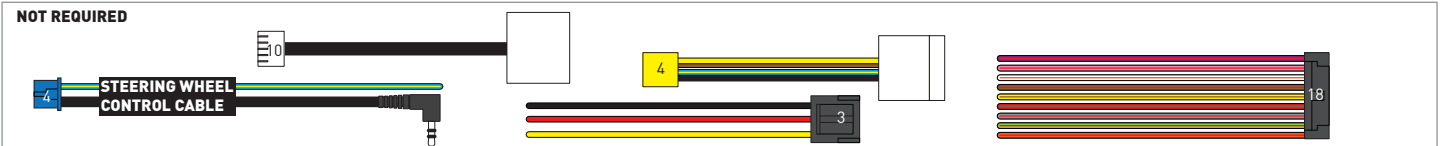
## STEP 4



## STEP 6



### NOT REQUIRED





# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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iDataLink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**K40**  
ELECTRONICS  
**ESCORT**

Click here for:  
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HEAD UNIT ADAPTER:  
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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to parking assist ECU harness, as shown in wiring diagram.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDataLink 3.5 mm audio jack of the aftermarket radio (if there is no iDataLink audio input,

connect to AUX).

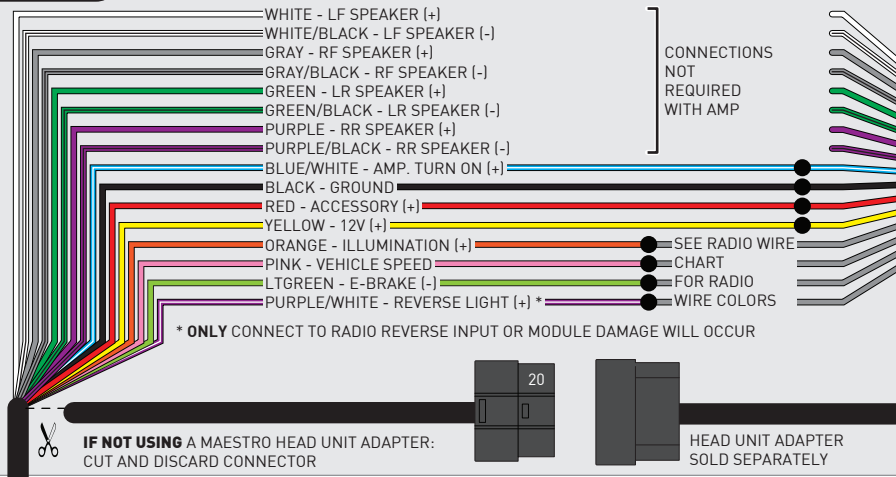
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

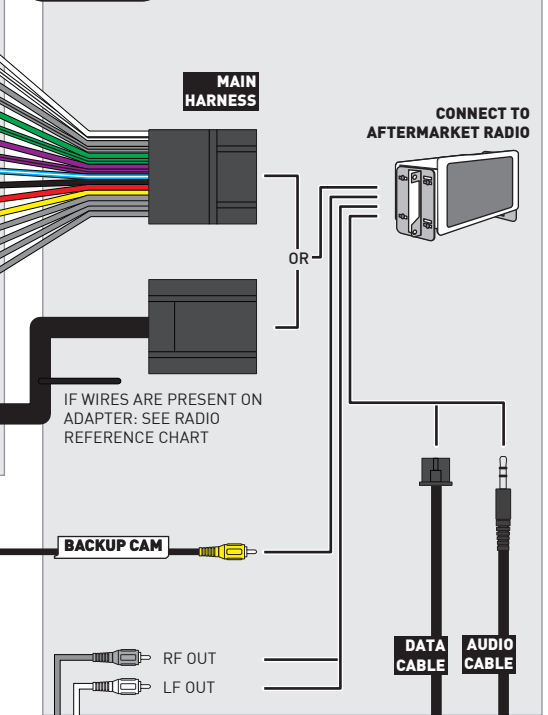
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

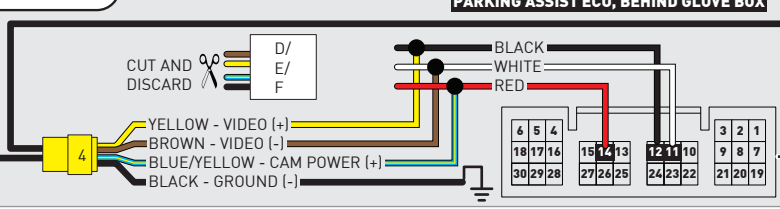
## STEP 1



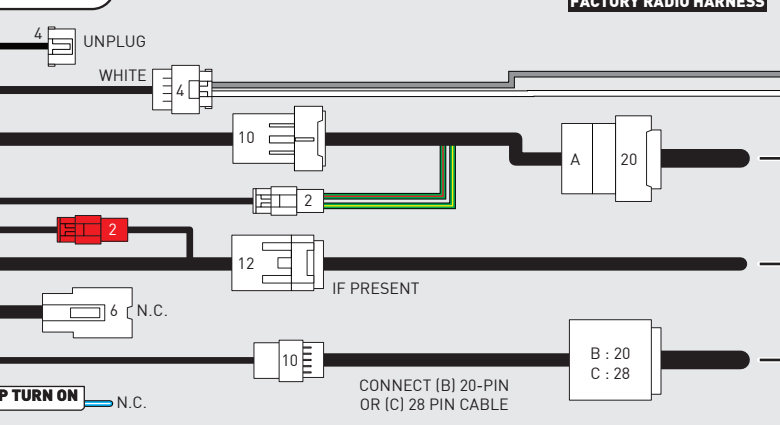
## STEP 5



## STEP 2



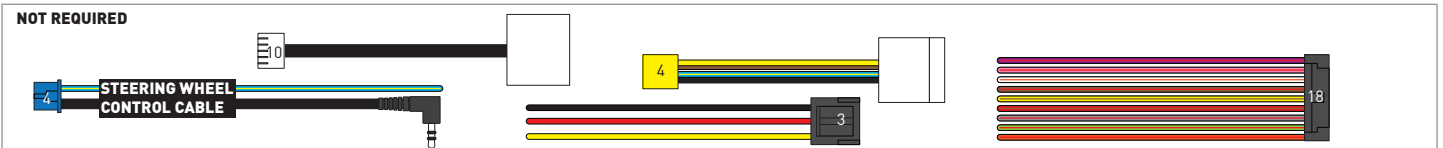
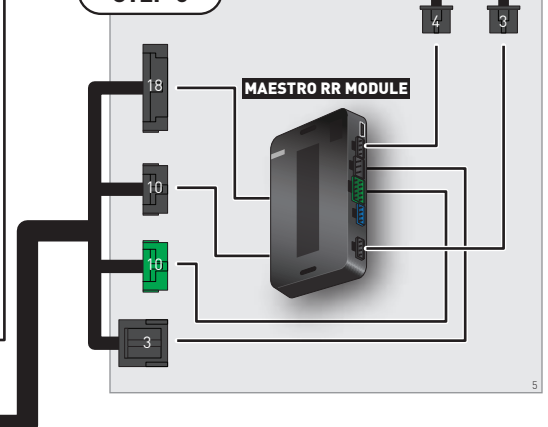
## STEP 3



## STEP 4



## STEP 6



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

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**K40**<sup>™</sup>  
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# 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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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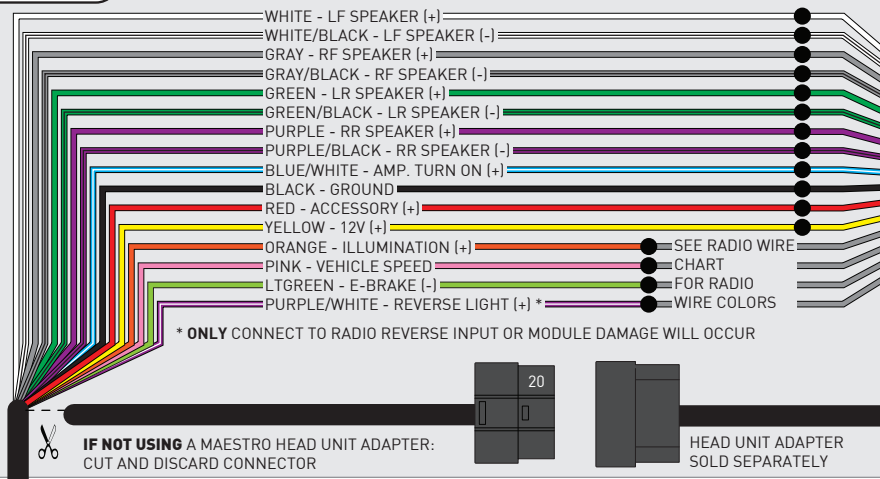
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

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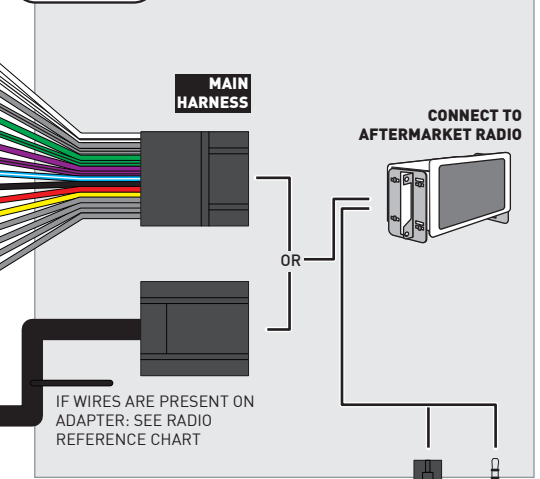
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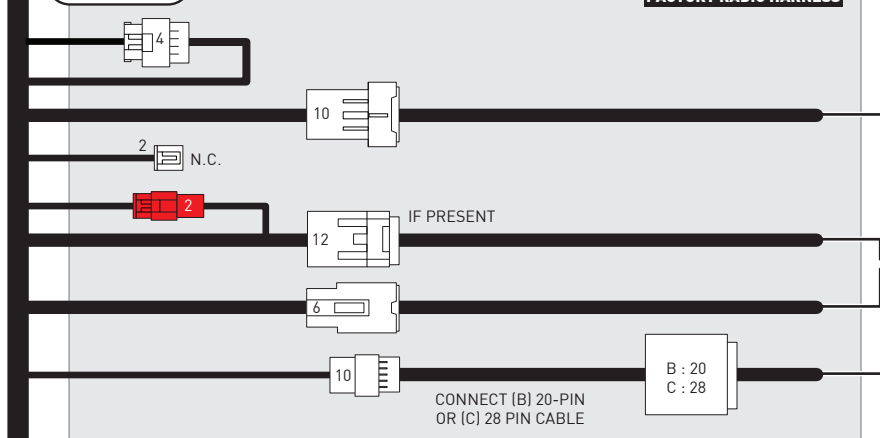
## STEP 1



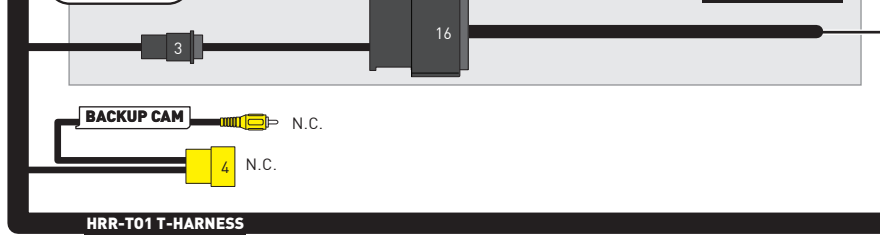
## STEP 4



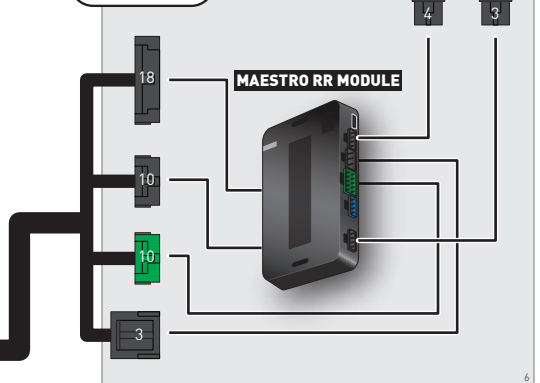
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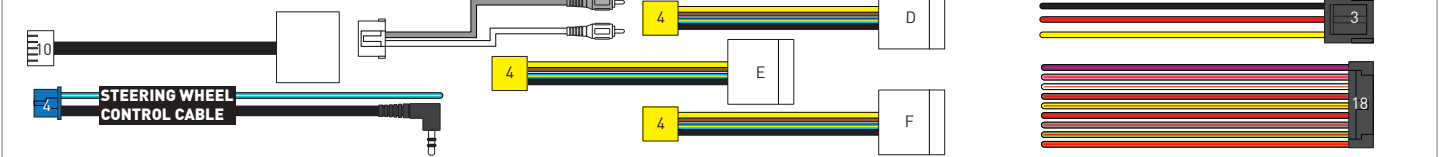
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# RADIO WIRE REFERENCE CHART

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# INSTALLATION INSTRUCTIONS P1/1

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**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

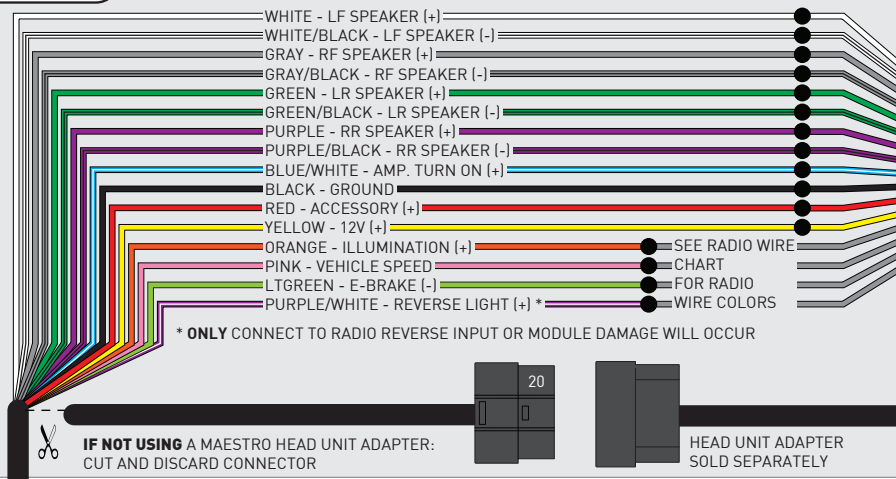
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

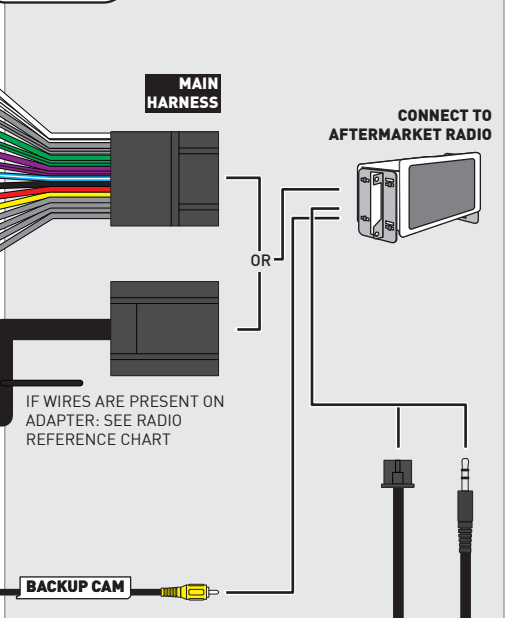
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

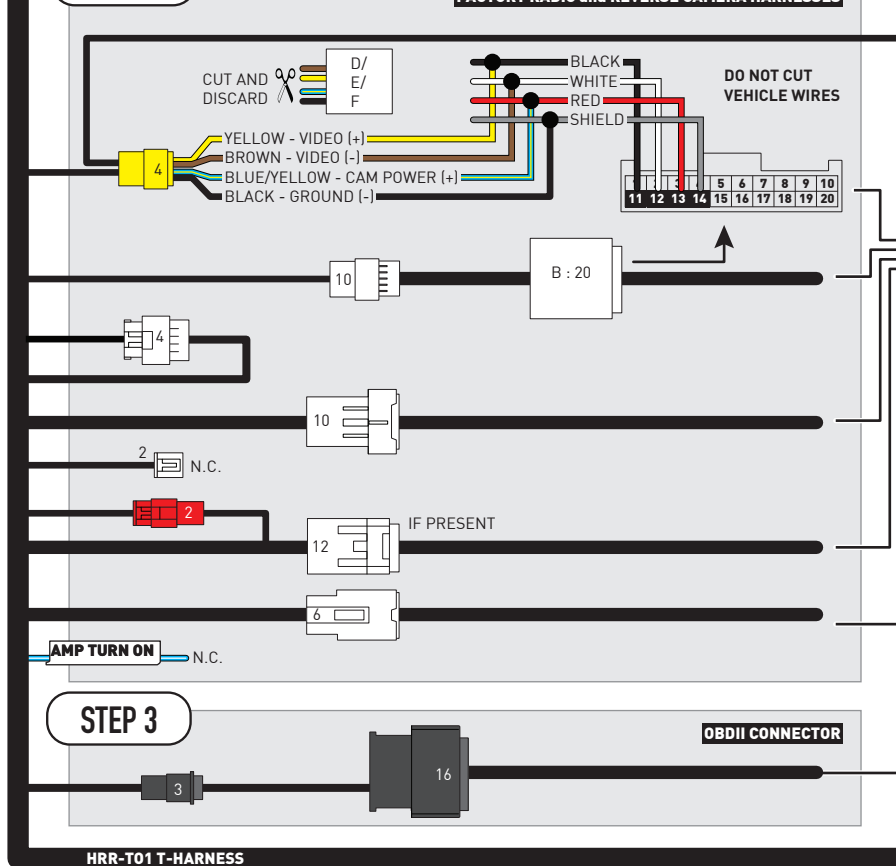
## STEP 1



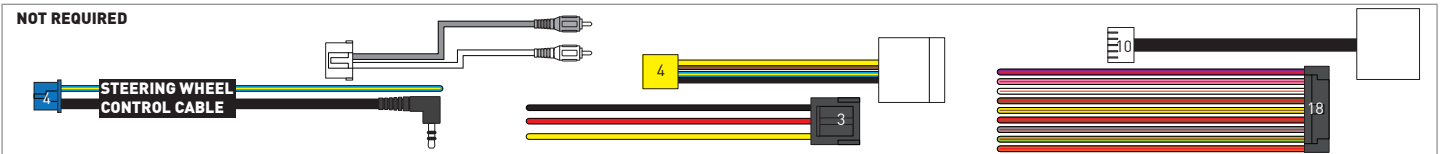
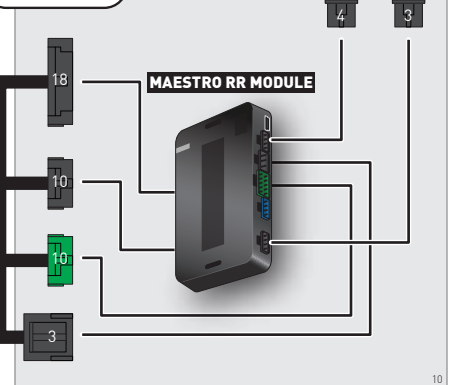
## STEP 4



## STEP 2



## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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

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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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iDatalink Maestro HRR-T01 Installation Harness

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ADS-RR(SR)-TOY01-DS

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ELECTRONICS  
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 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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

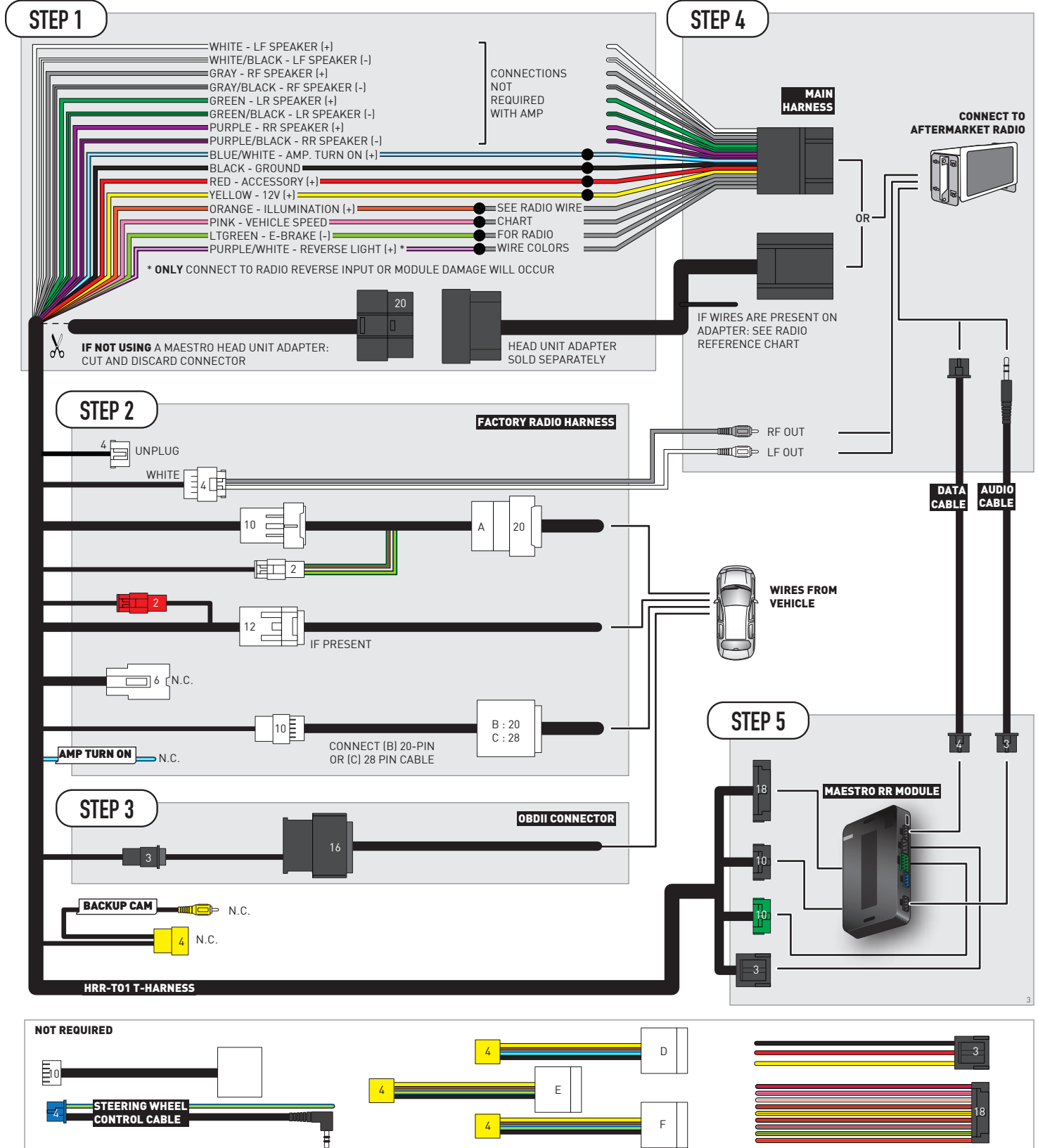
- Plug the harnesses into the aftermarket radio.
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

## STEP 5

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

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

T01 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

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ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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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

\* 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.
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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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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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).

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# INSTALLATION INSTRUCTIONS P1/1

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**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
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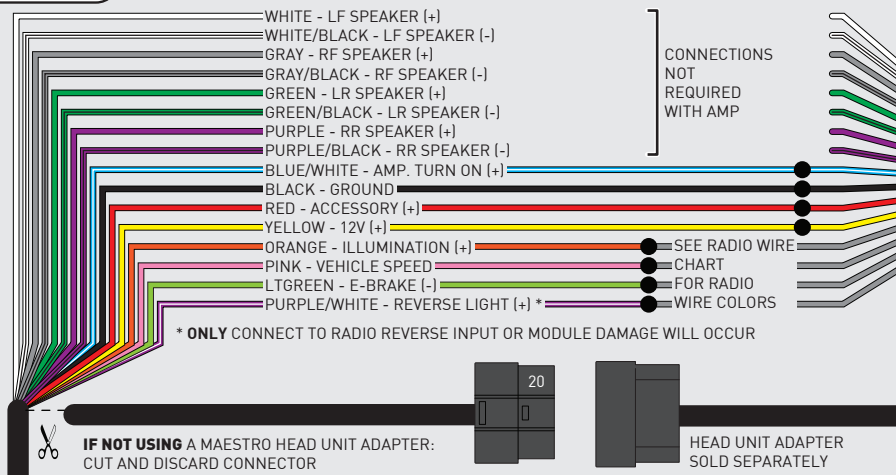
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

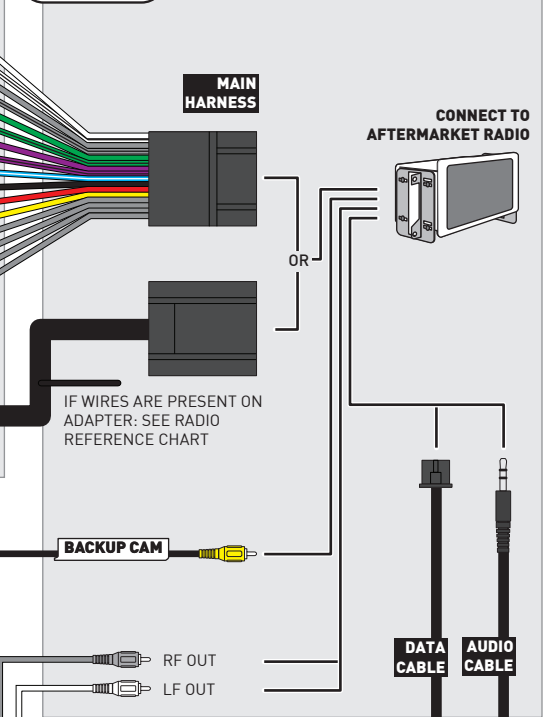
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# WIRING DIAGRAM *with an Amplifier*

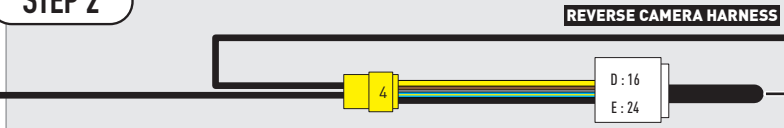
## STEP 1



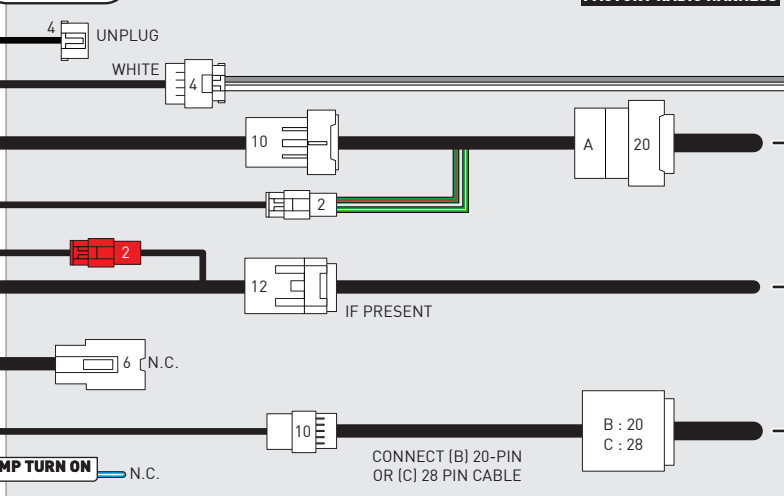
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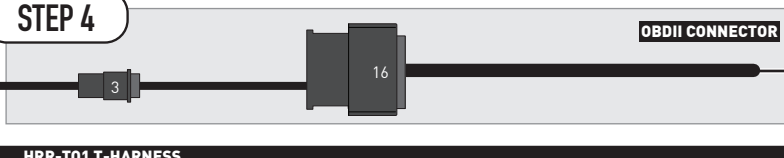
## STEP 2



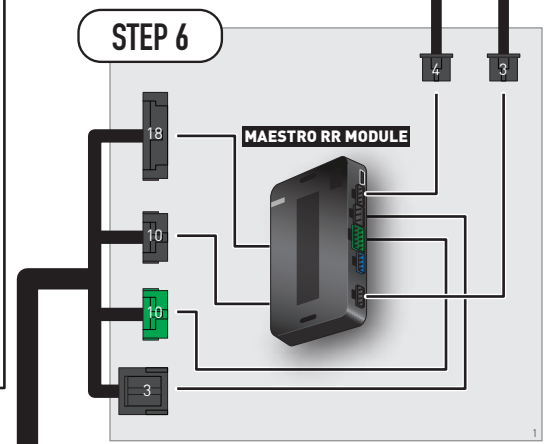
## STEP 3



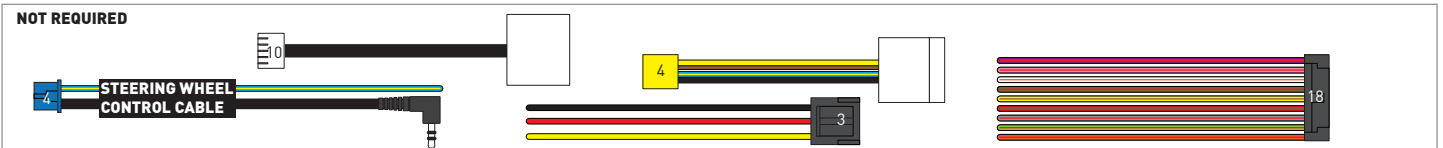
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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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<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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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

 [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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

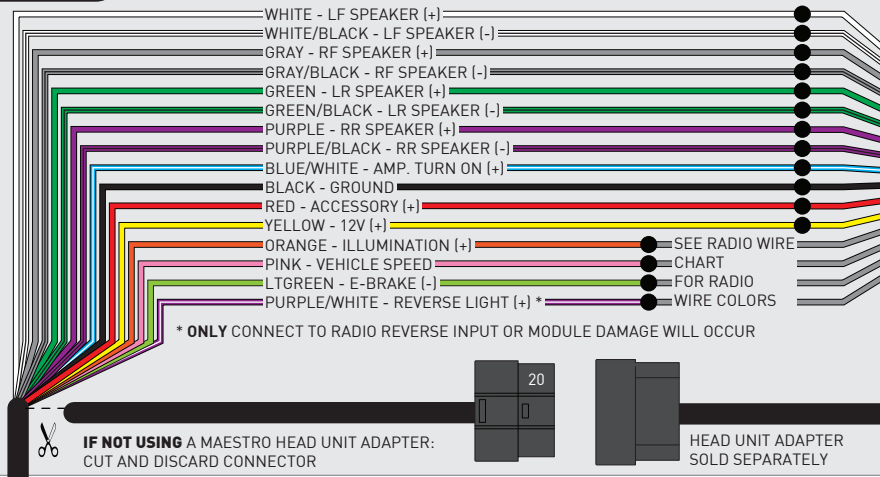
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

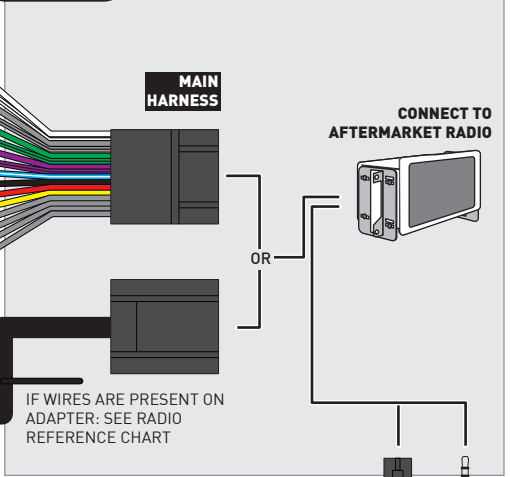
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

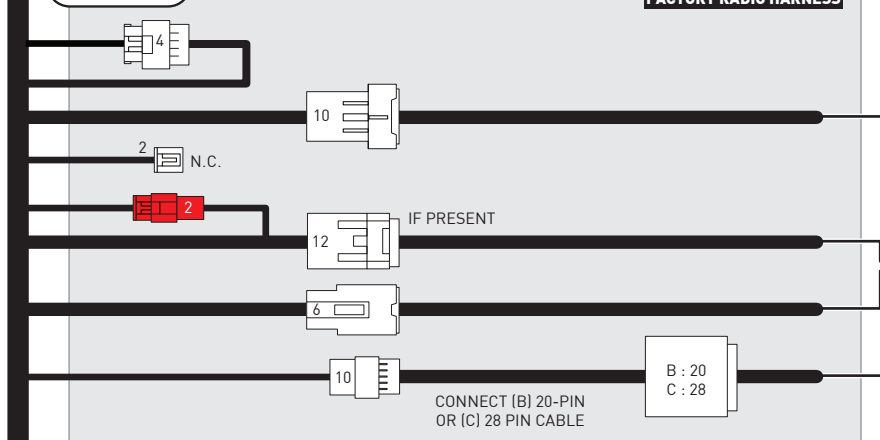
## STEP 1



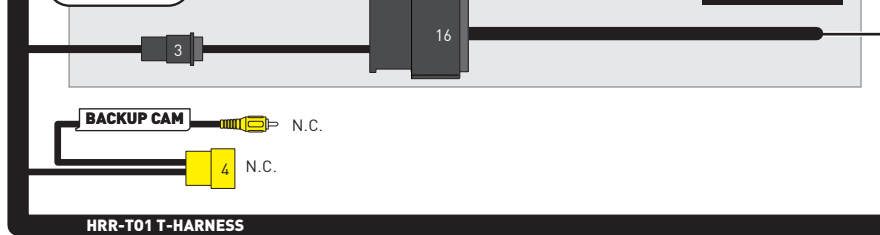
## STEP 4



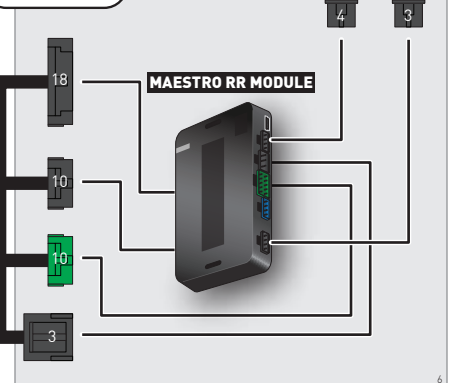
## STEP 2



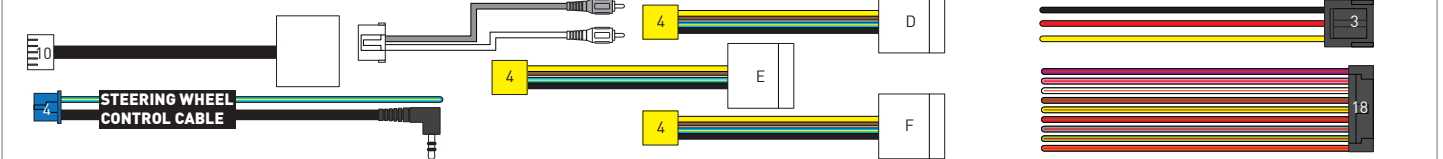
## STEP 3



## STEP 5



## NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# WELCOME

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

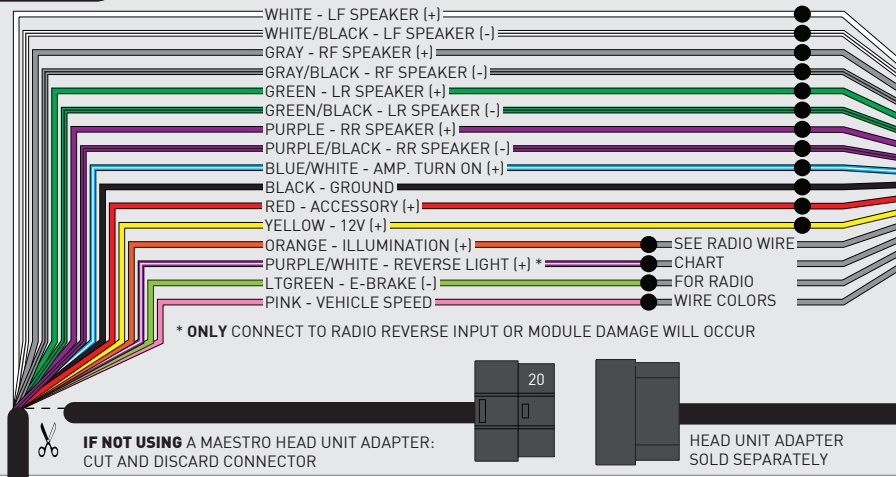
## STEP 6

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

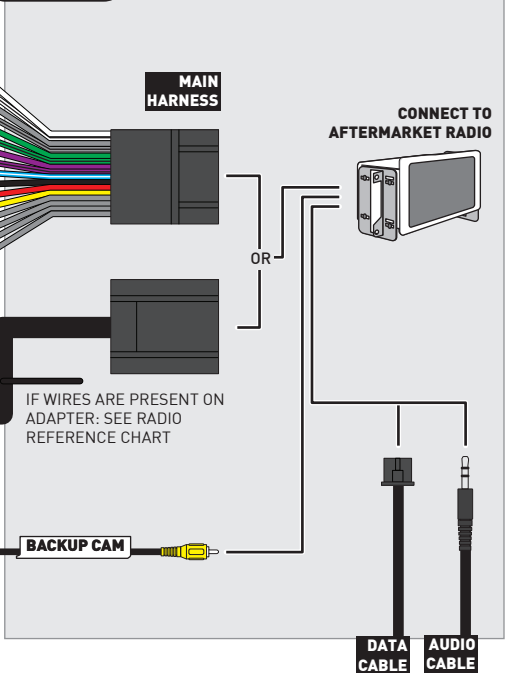


# WIRING DIAGRAM *without an Amplifier*

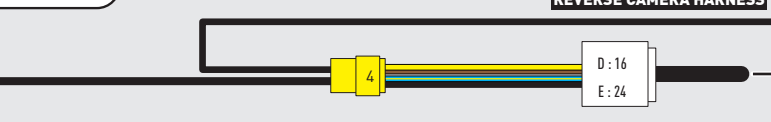
## STEP 1



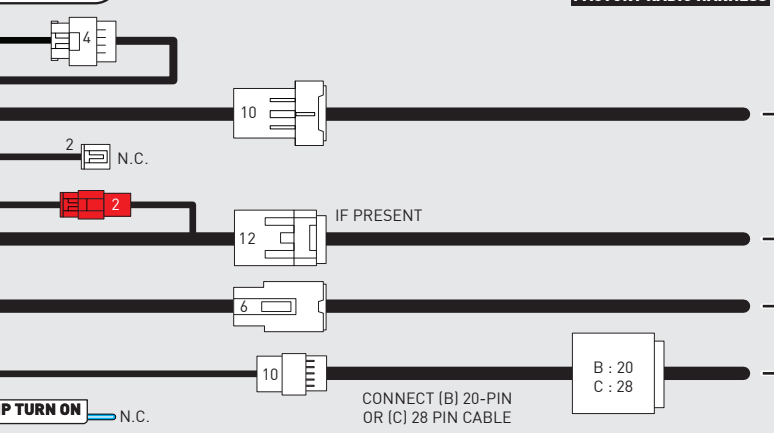
## STEP 5



## STEP 2



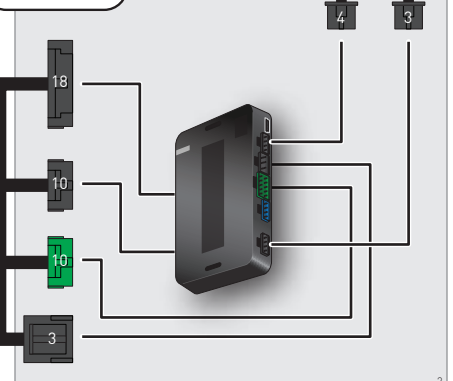
## STEP 3



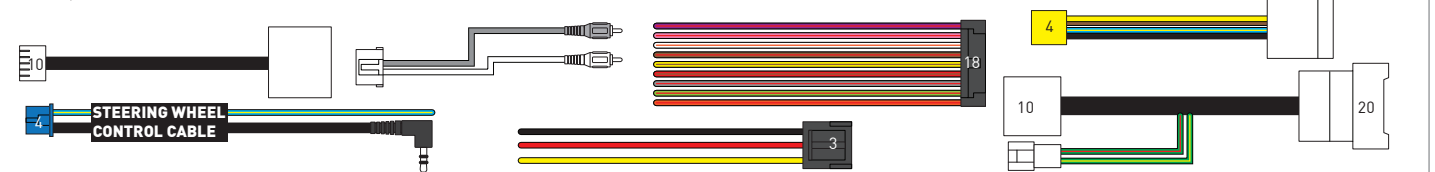
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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		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 OBDII 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>
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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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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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#### OPTIONAL ACCESSORIES

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**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

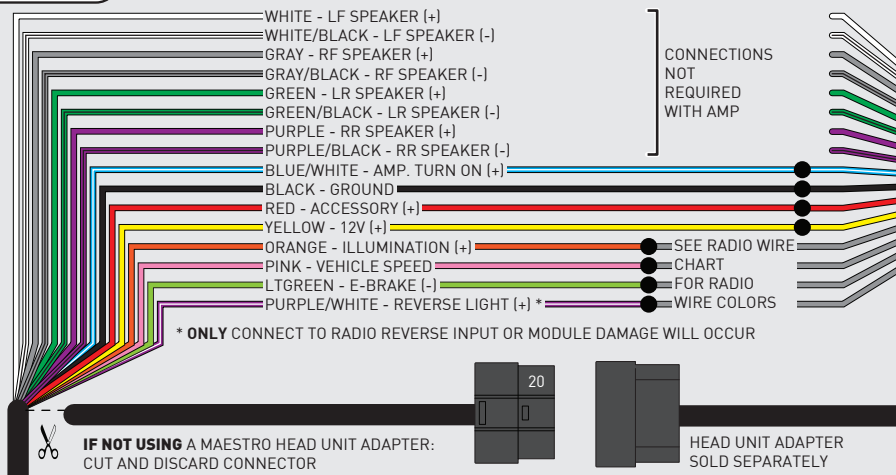
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

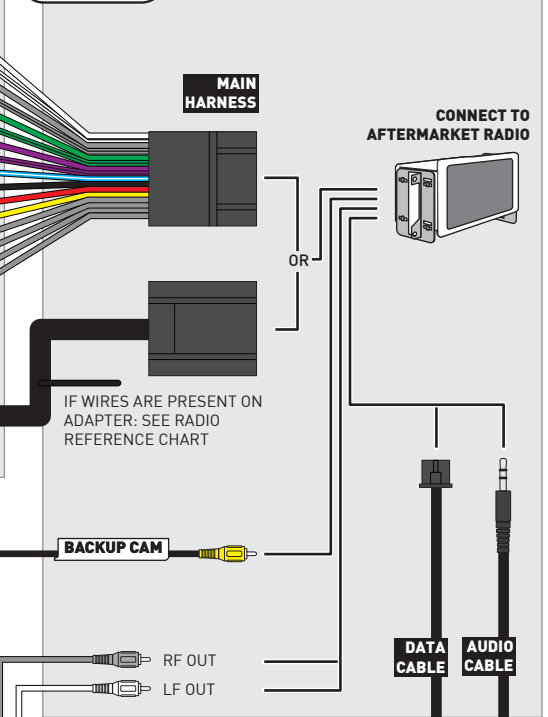
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# WIRING DIAGRAM *with an Amplifier*

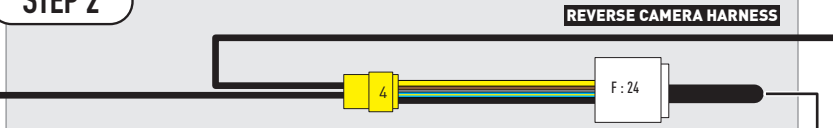
## STEP 1



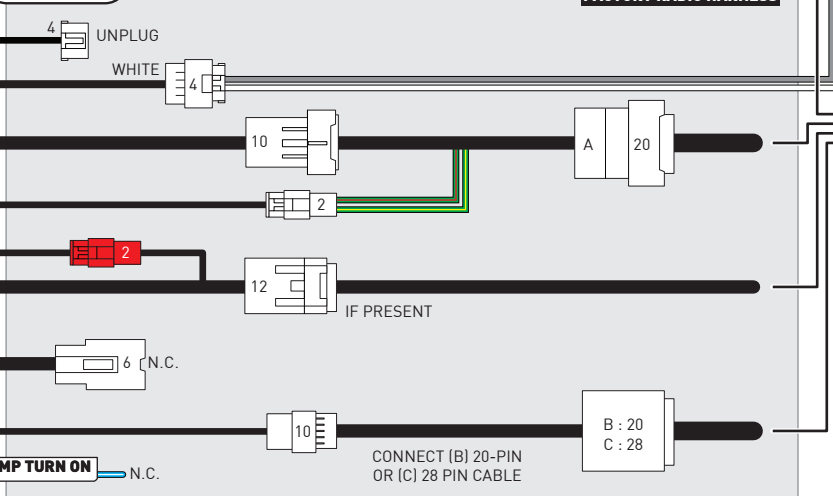
## STEP 5



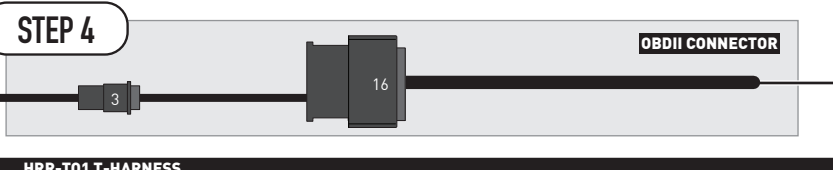
## STEP 2



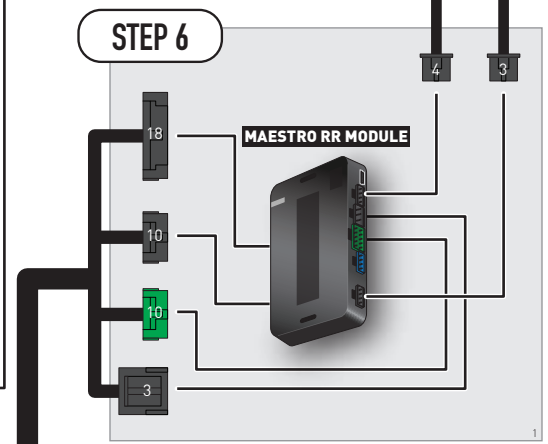
## STEP 3



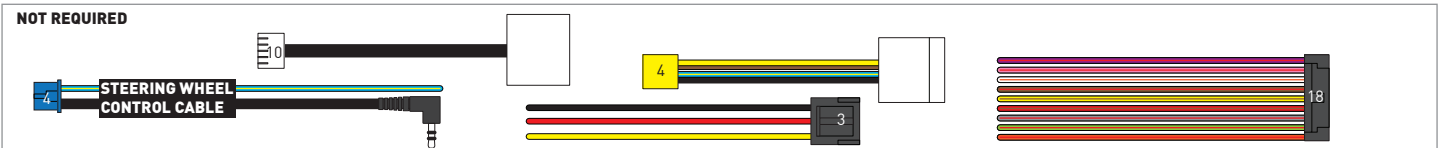
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## STEP 6



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# RADIO WIRE REFERENCE CHART

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

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









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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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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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# 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



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#### ADDITIONAL RESOURCES

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**K40**<sup>™</sup>  
ELECTRONICS  
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Click here for:  
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HEAD UNIT ADAPTER:  
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Module Diagnostics	6
Troubleshooting Table	7

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 [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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to reverse camera harness, as shown in wiring diagram.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

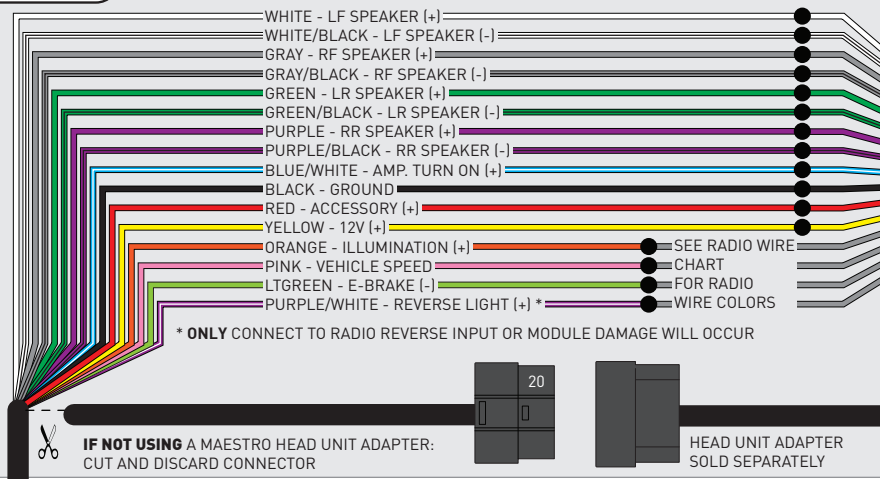
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

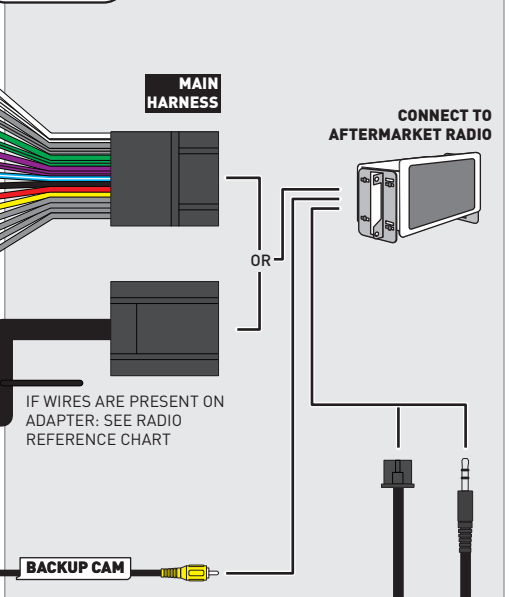
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

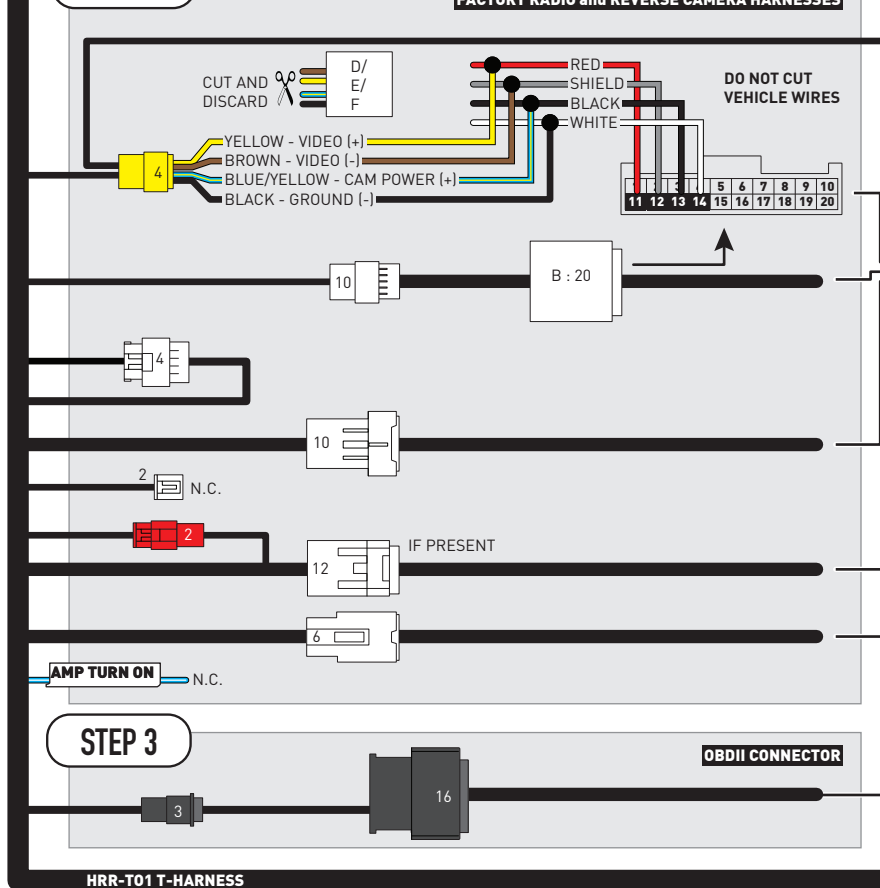
## STEP 1



## STEP 4

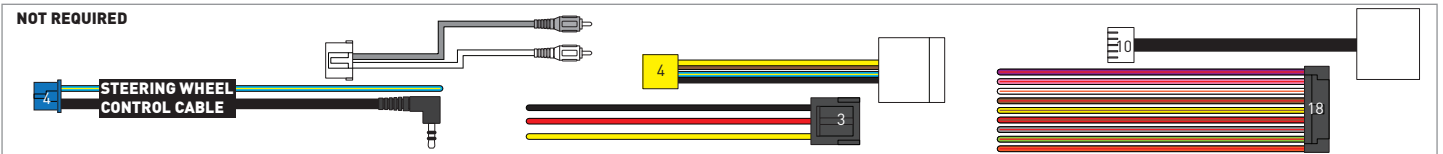


## STEP 2



## STEP 3

## STEP 5



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDataLink 3.5 mm audio jack of the aftermarket radio (if there is no iDataLink audio input, connect to AUX).

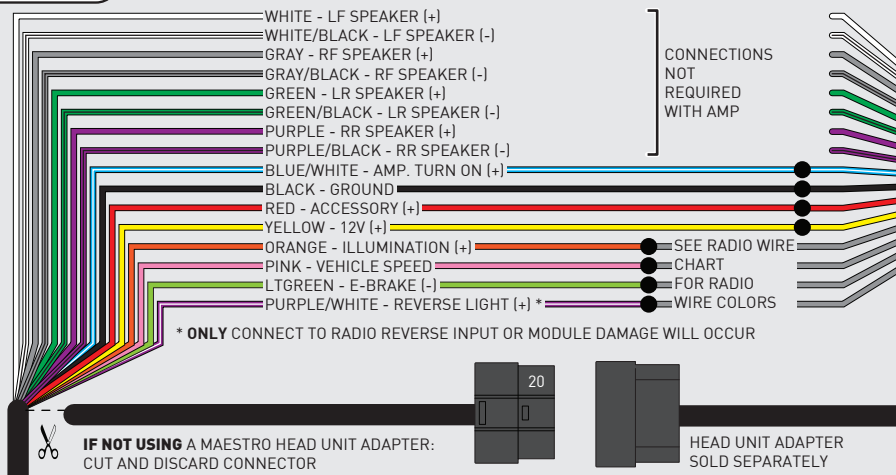
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

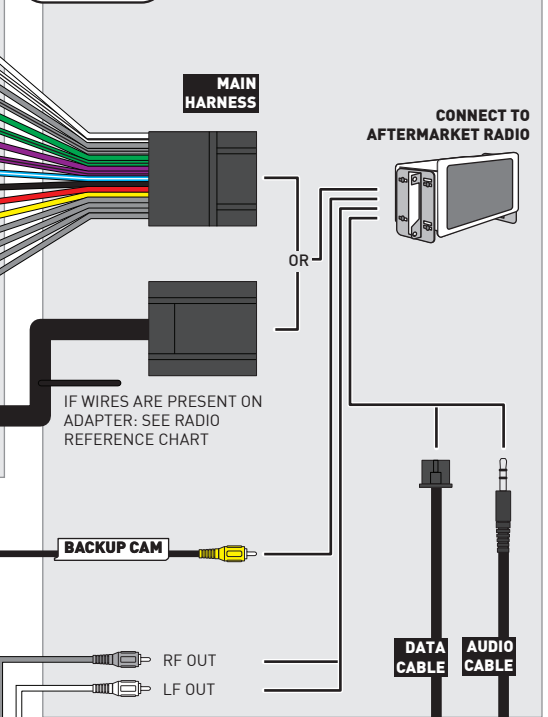
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *with an Amplifier*

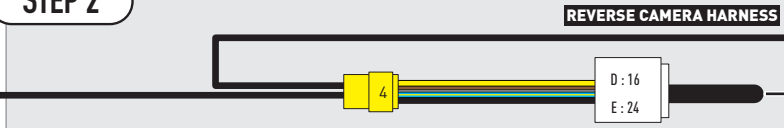
## STEP 1



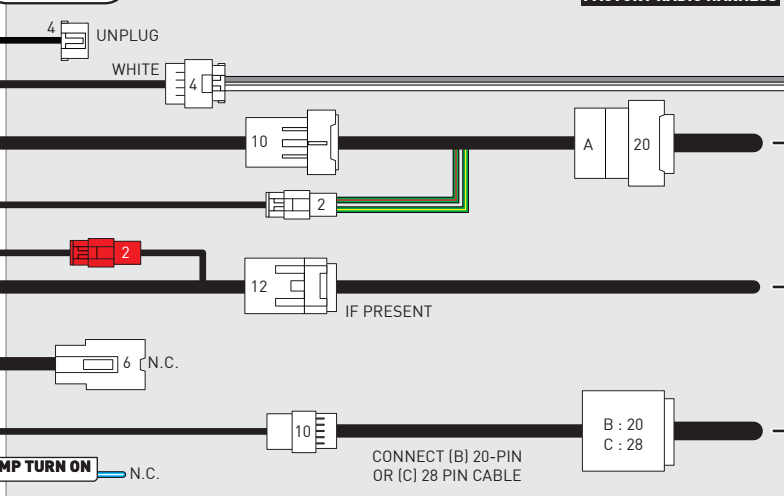
## STEP 5



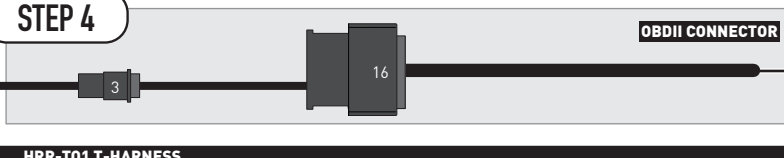
## STEP 2



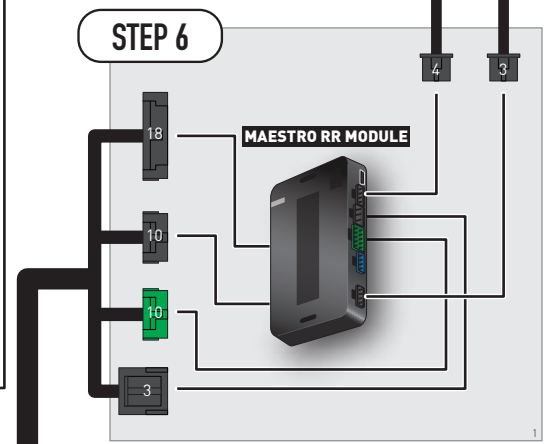
## STEP 3



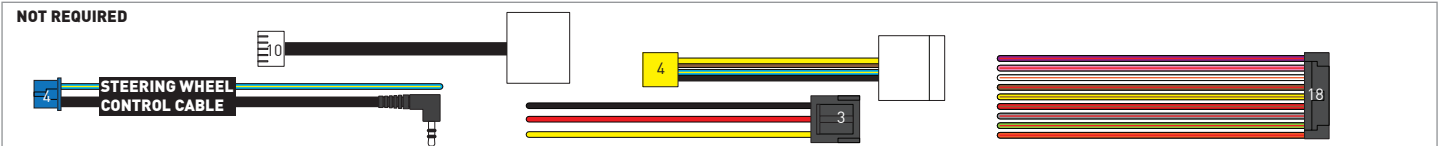
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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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
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Reverse Light*	(+)	Purple/White	Purple/White
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## STEP 2

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## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
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## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
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- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
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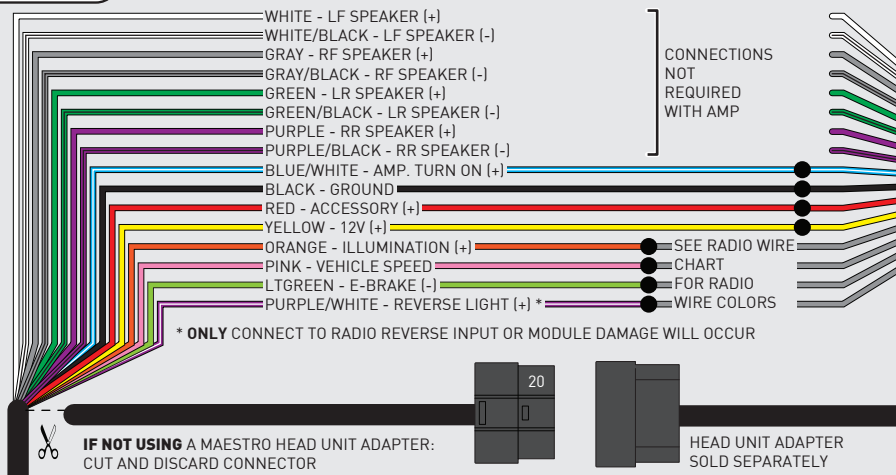
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## STEP 6

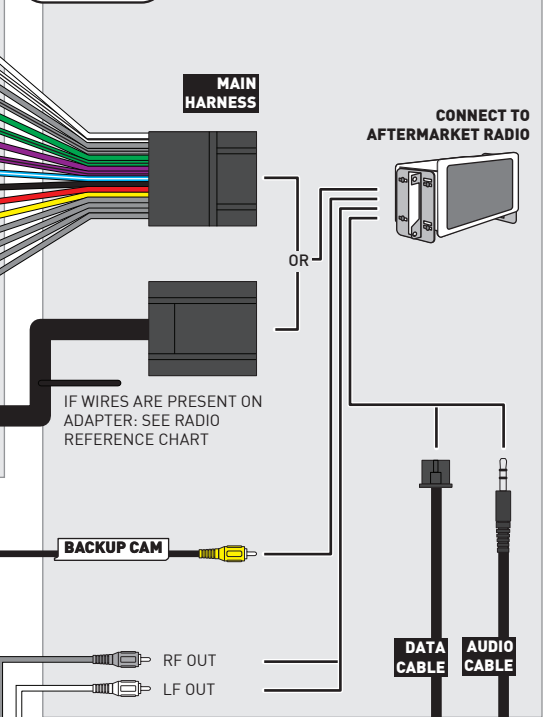
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# WIRING DIAGRAM *with an Amplifier*

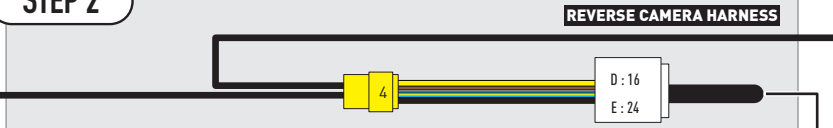
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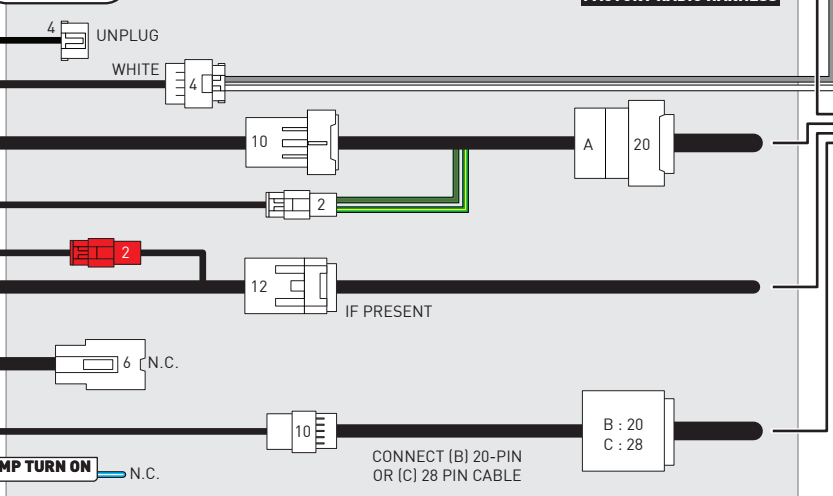
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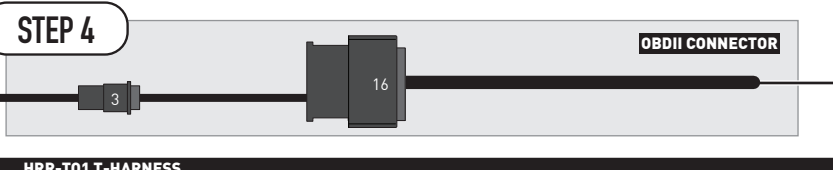
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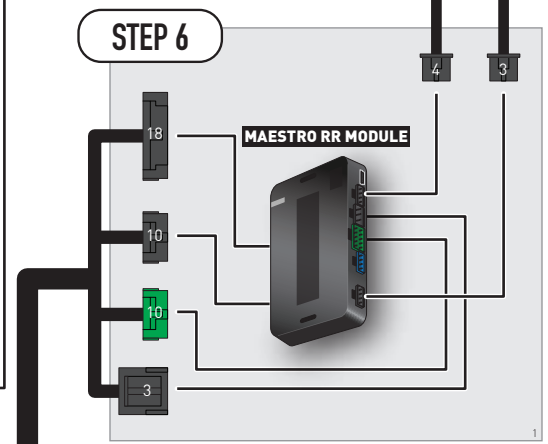
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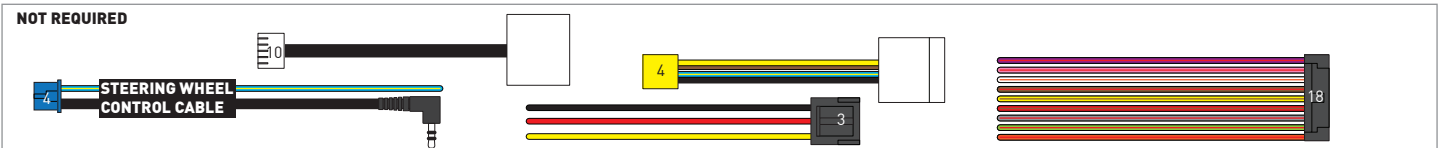
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## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!**



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES



Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# WELCOME

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

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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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

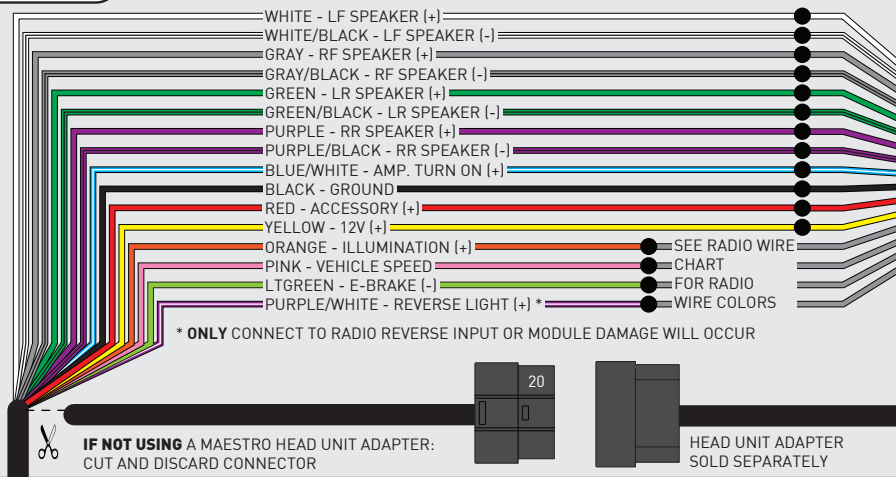
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

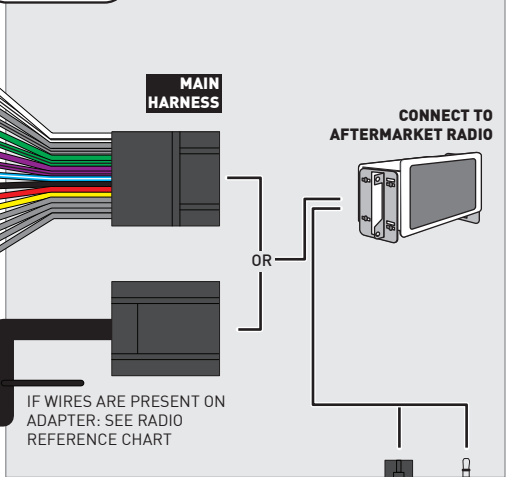
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

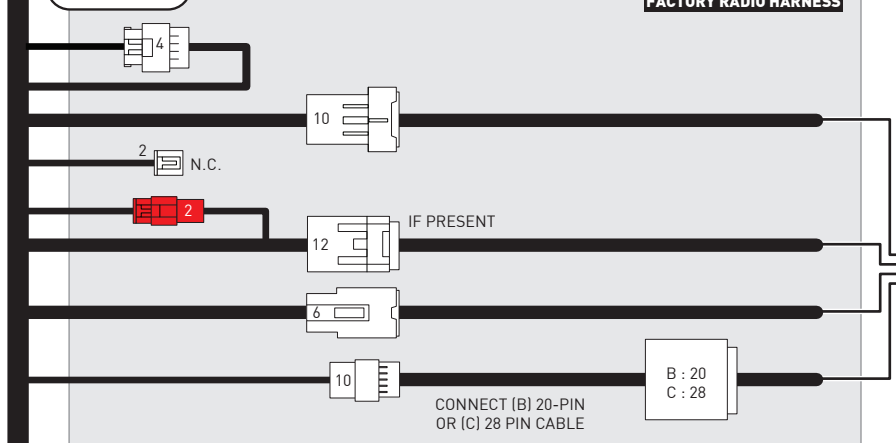
## STEP 1



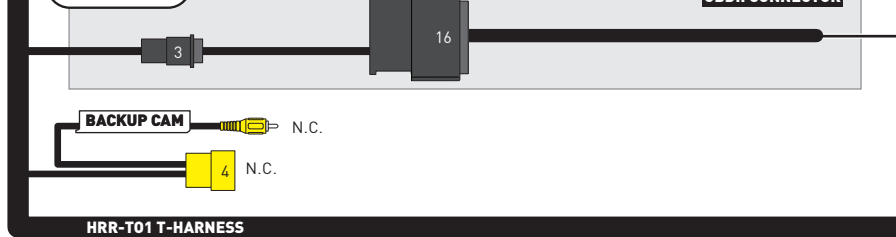
## STEP 4



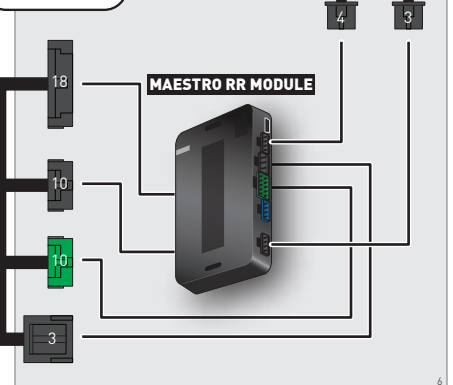
## STEP 2



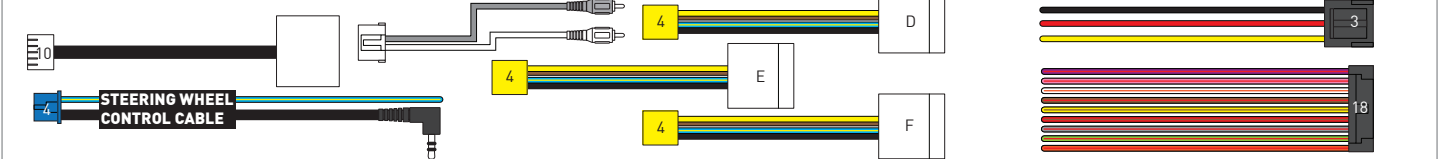
## STEP 3



## STEP 5



## NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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.
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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 OBDII 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>
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## 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).

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-T01 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 4

- Connect HRR-T01 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

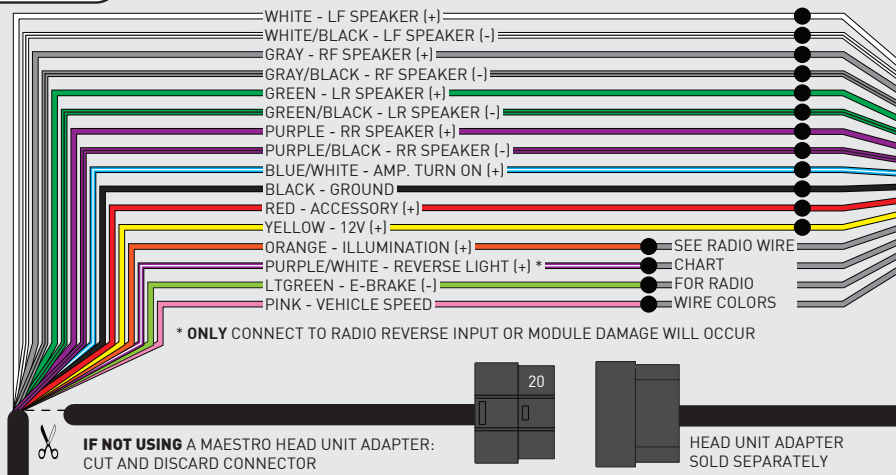
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

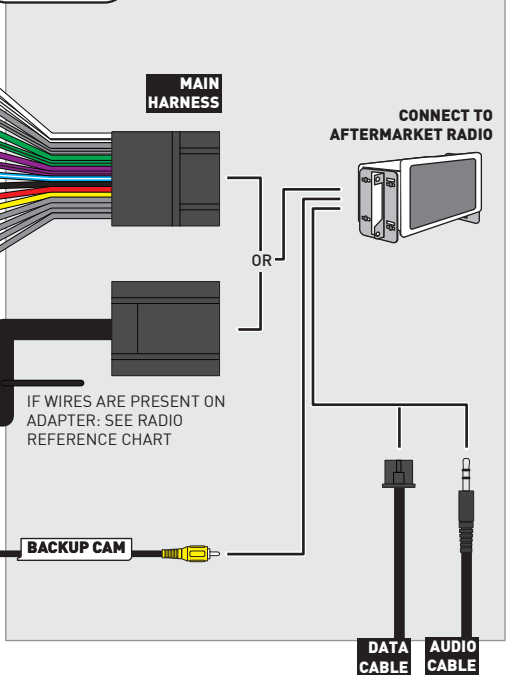
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

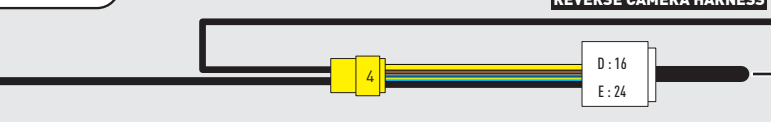
## STEP 1



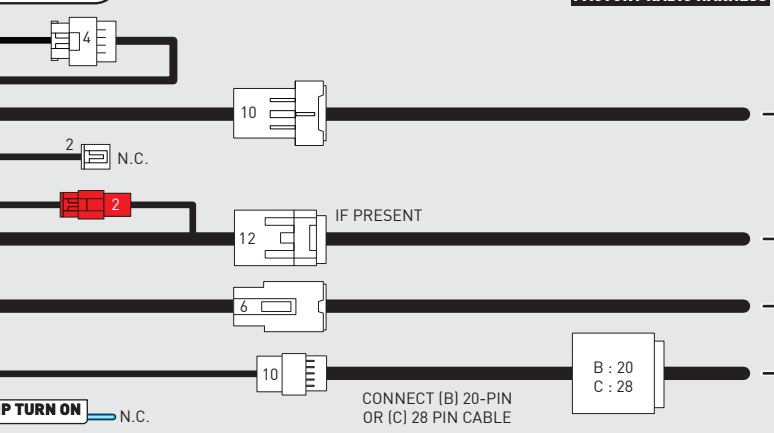
## STEP 5



## STEP 2



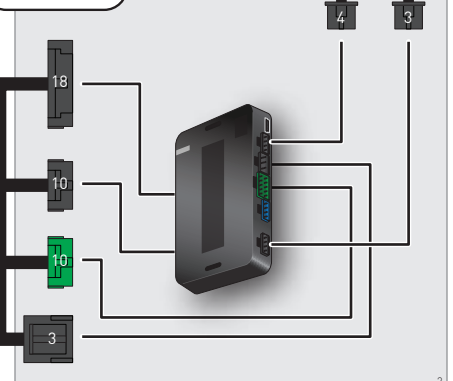
## STEP 3



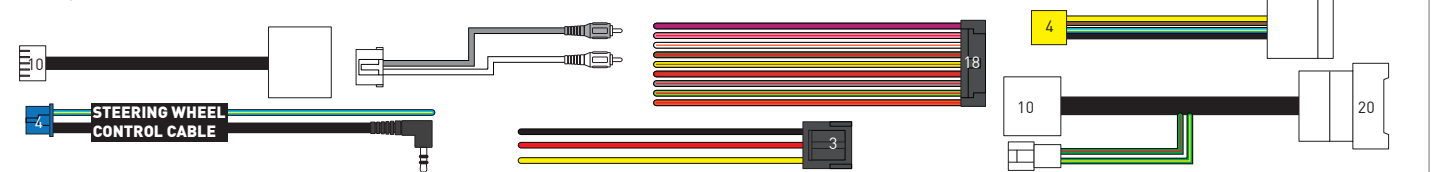
## STEP 4



## STEP 6



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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CAM	(+)	Green/Red	Refer to camera/radio manual
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# TROUBLESHOOTING TABLE

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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBDII 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>
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<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

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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).

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

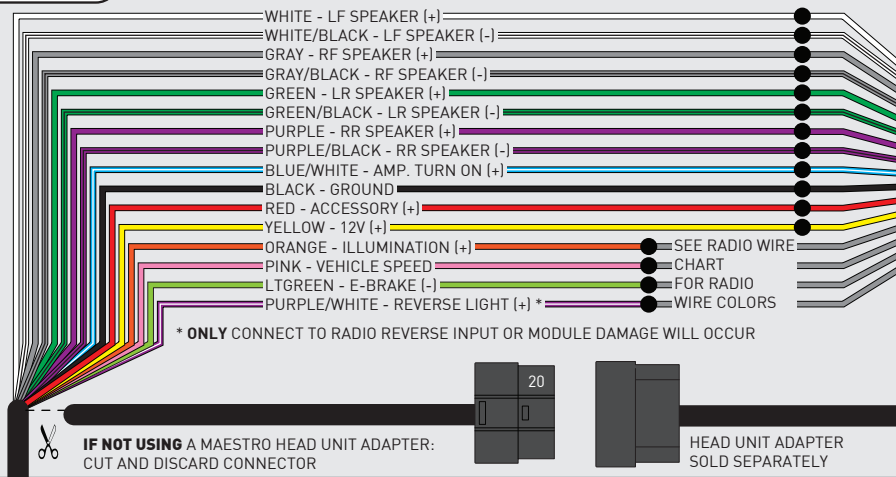
**Note:** On Pioneer radio, ensure that there is nothing plugged into the W/R port.

## STEP 5

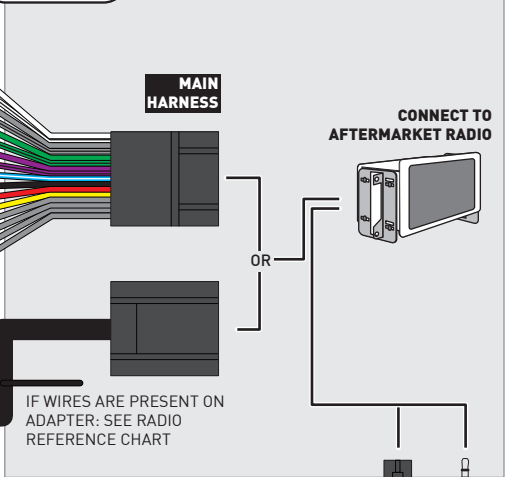
- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM *without an Amplifier*

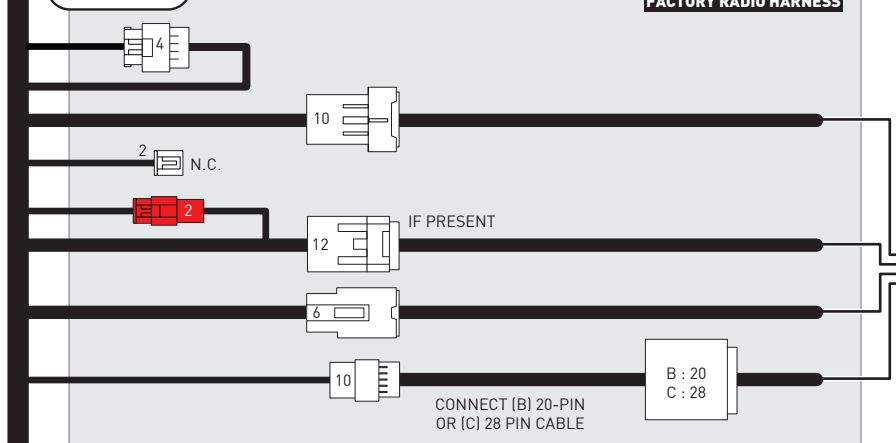
## STEP 1



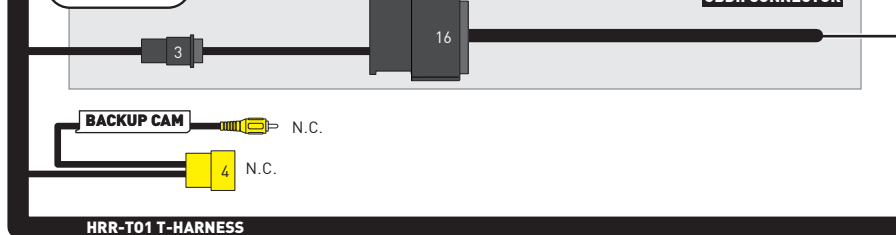
## STEP 4



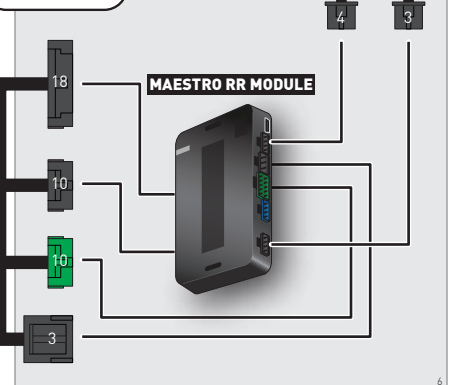
## STEP 2



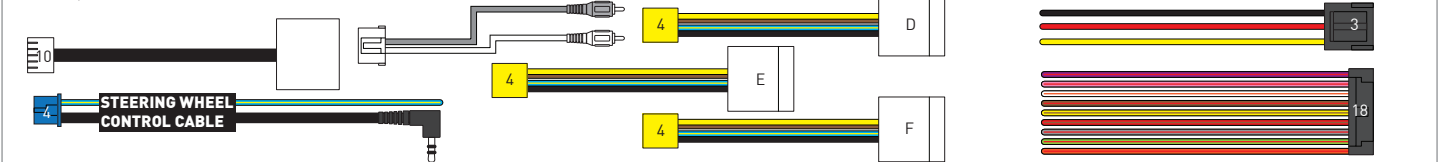
## STEP 3



## STEP 5



### NOT REQUIRED



# RADIO WIRE REFERENCE CHART

T01 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 OBDII 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>
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>
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	<p>Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).</p>
<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.</p>

## MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

## TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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

**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, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRR-T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
[Radar Installation Guides](#)

HEAD UNIT ADAPTER:  
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

# 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.**

## TABLE OF CONTENTS

Installation Instructions	3
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-T01 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-T01 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T01 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble T01 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-T01 harness.

## STEP 3

- Connect HRR-T01 3-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.
- Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

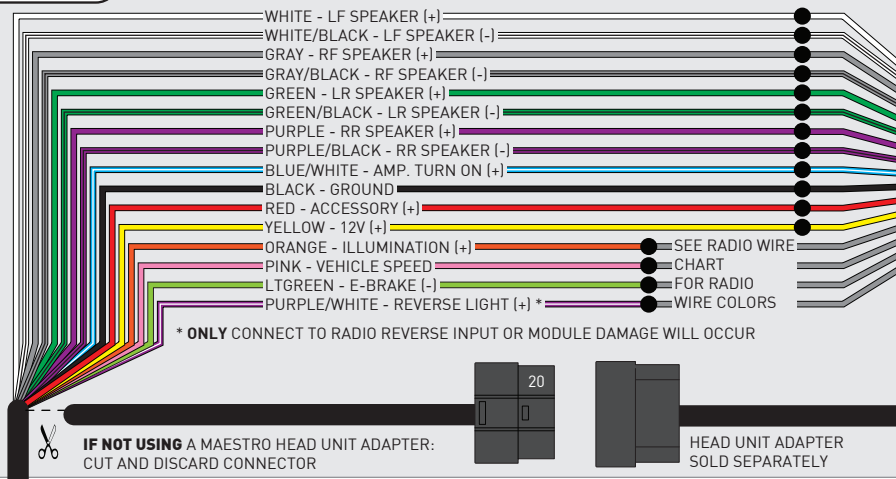
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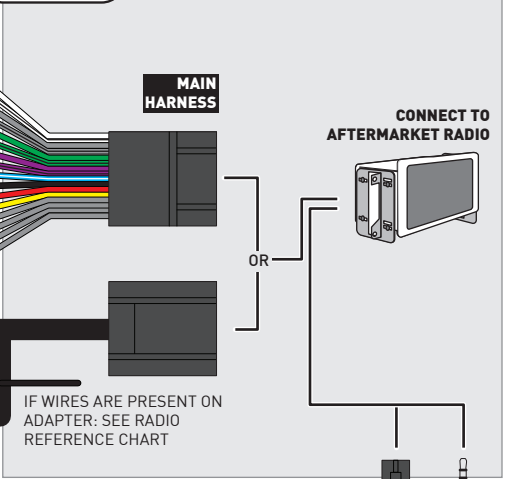


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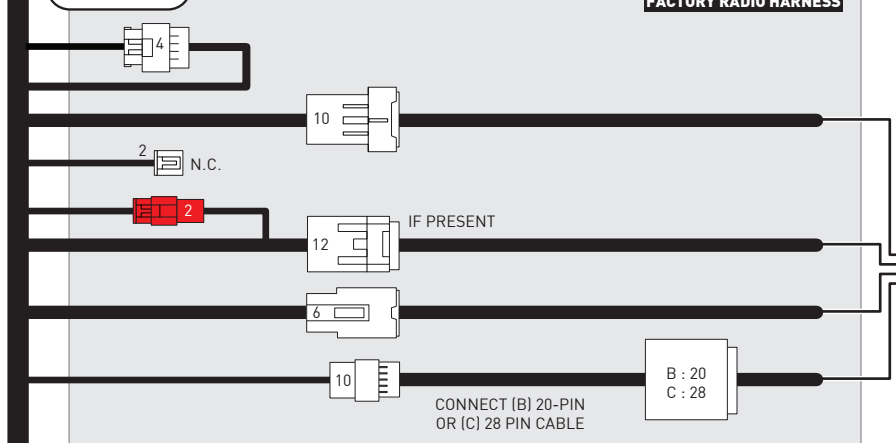
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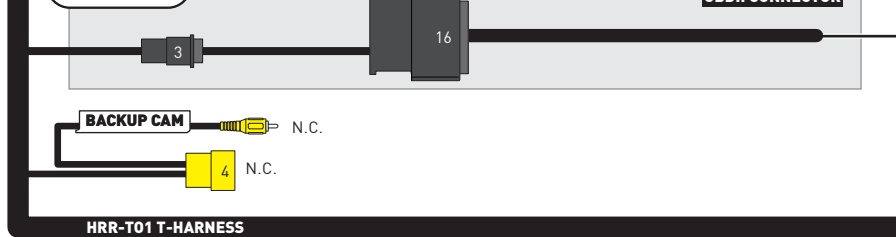
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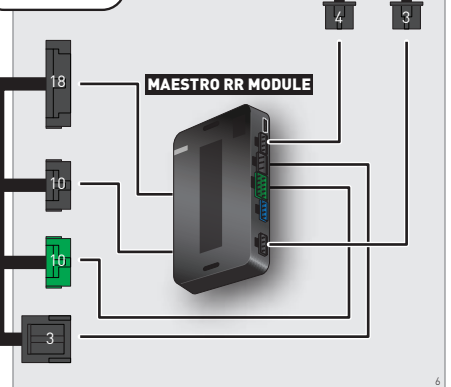
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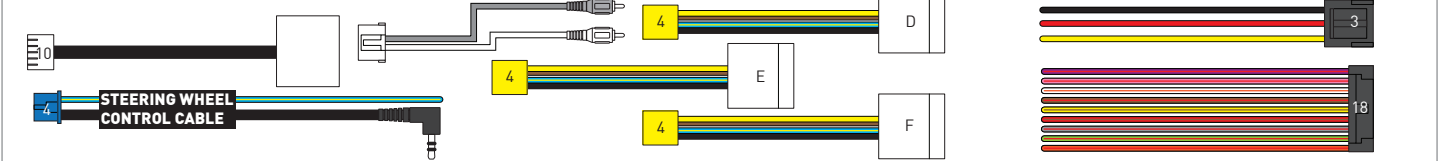
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