



## 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 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:  
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# WELCOME

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

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**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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Troubleshooting Table	7

# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

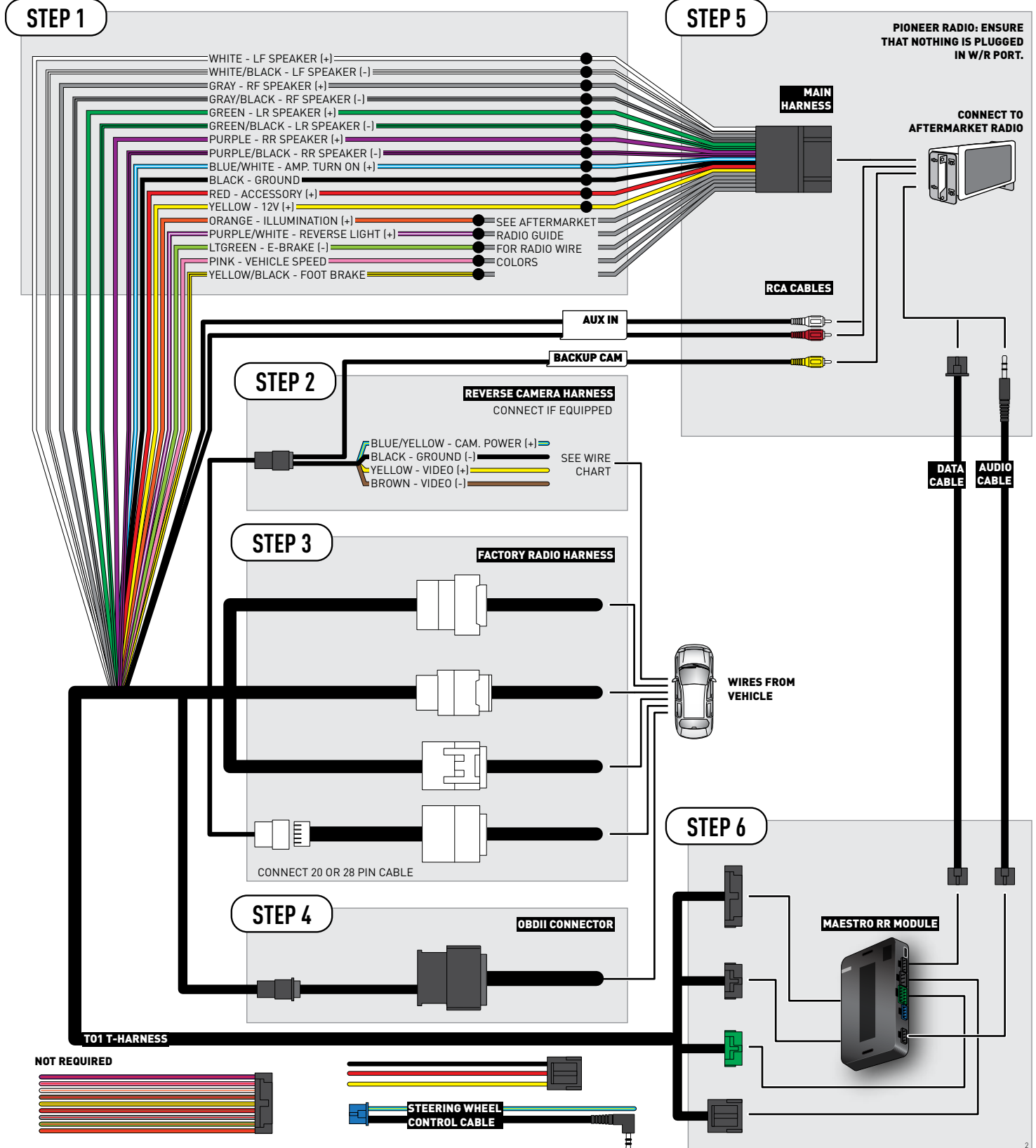
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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*



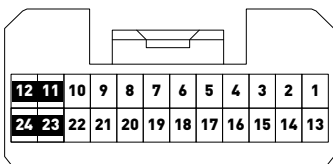
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Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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Reverse Light	(+)	Purple/White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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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.	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).
<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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- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

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

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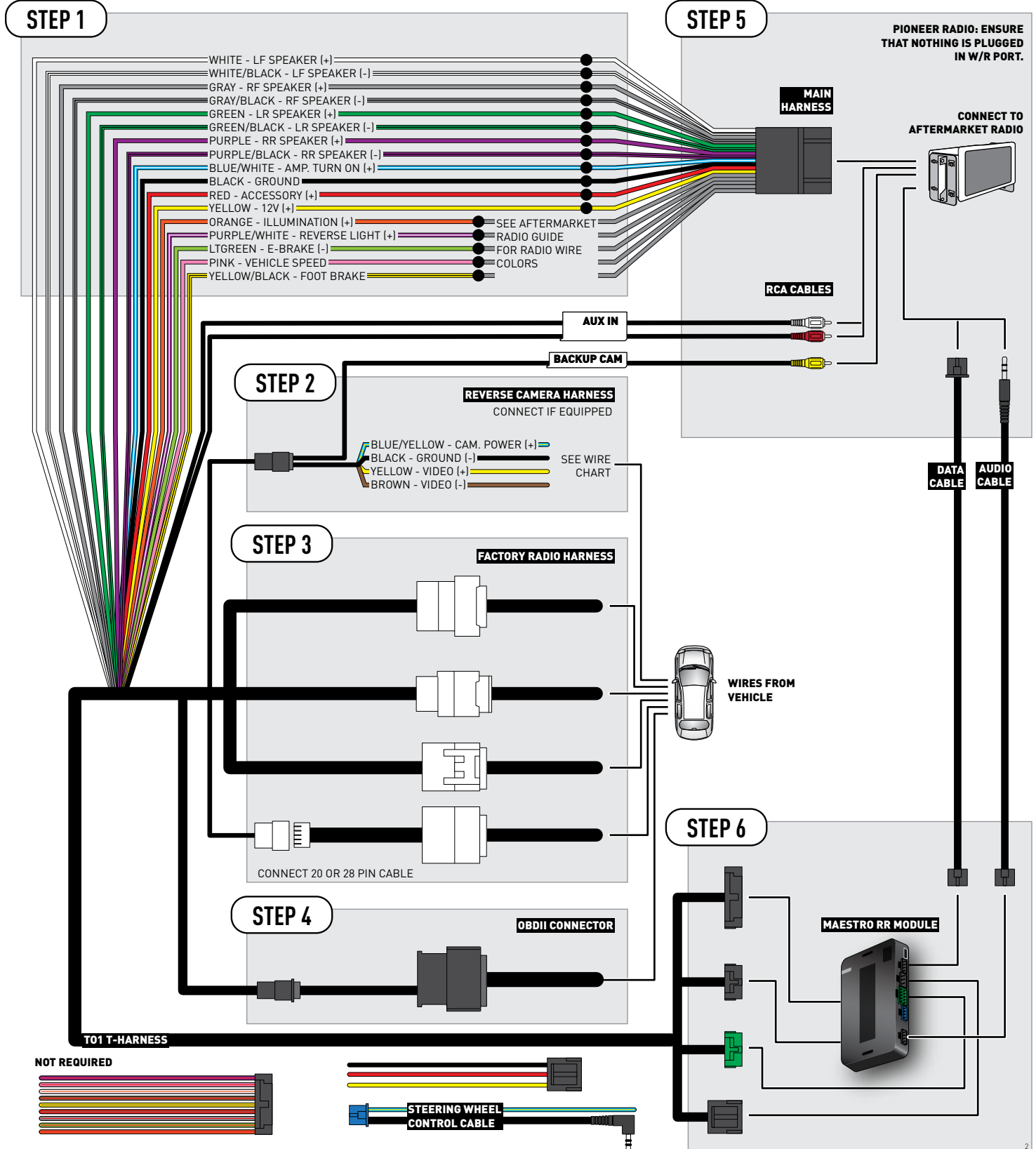
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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# WIRING DIAGRAM *without an Amplifier*



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REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

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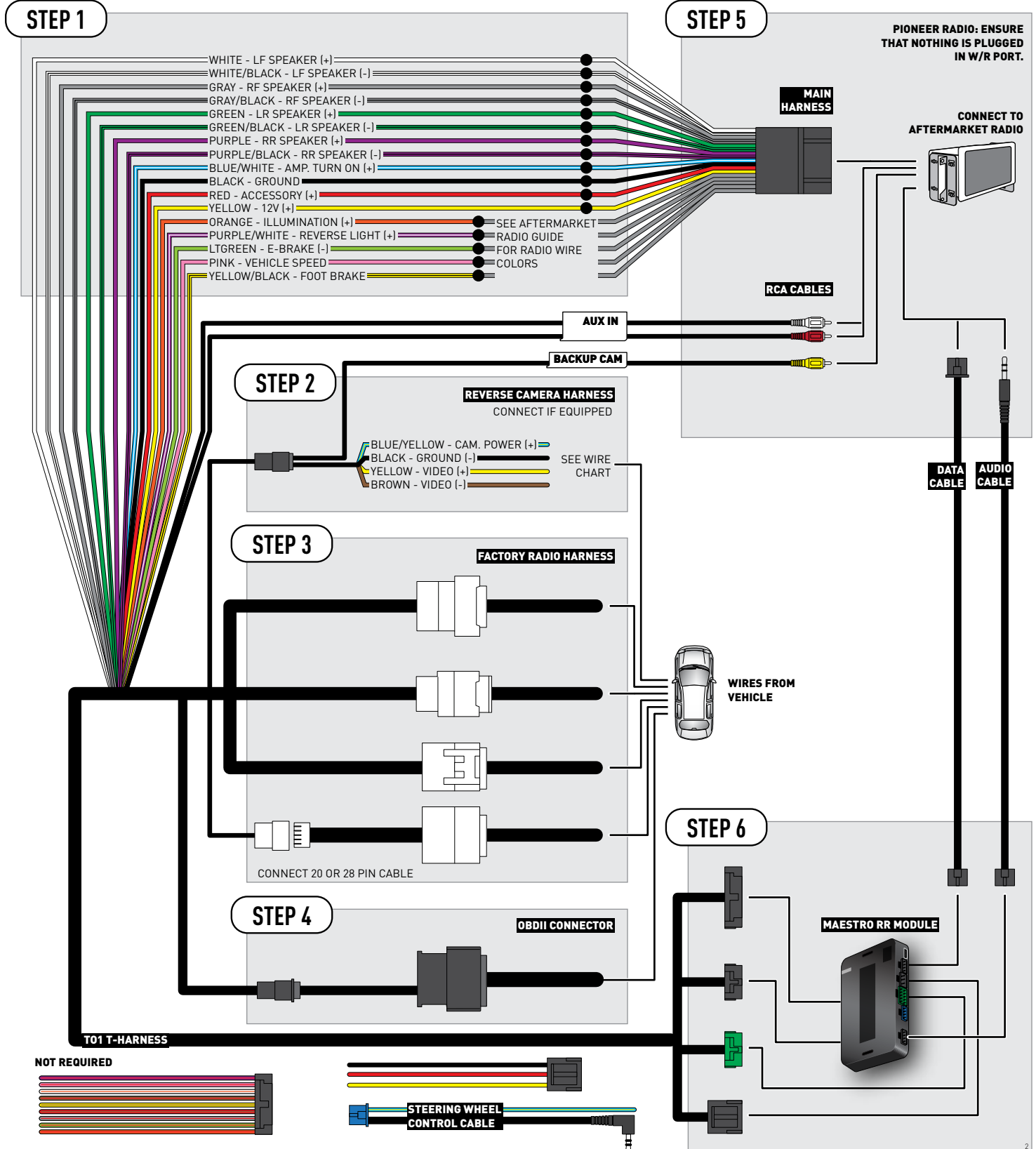
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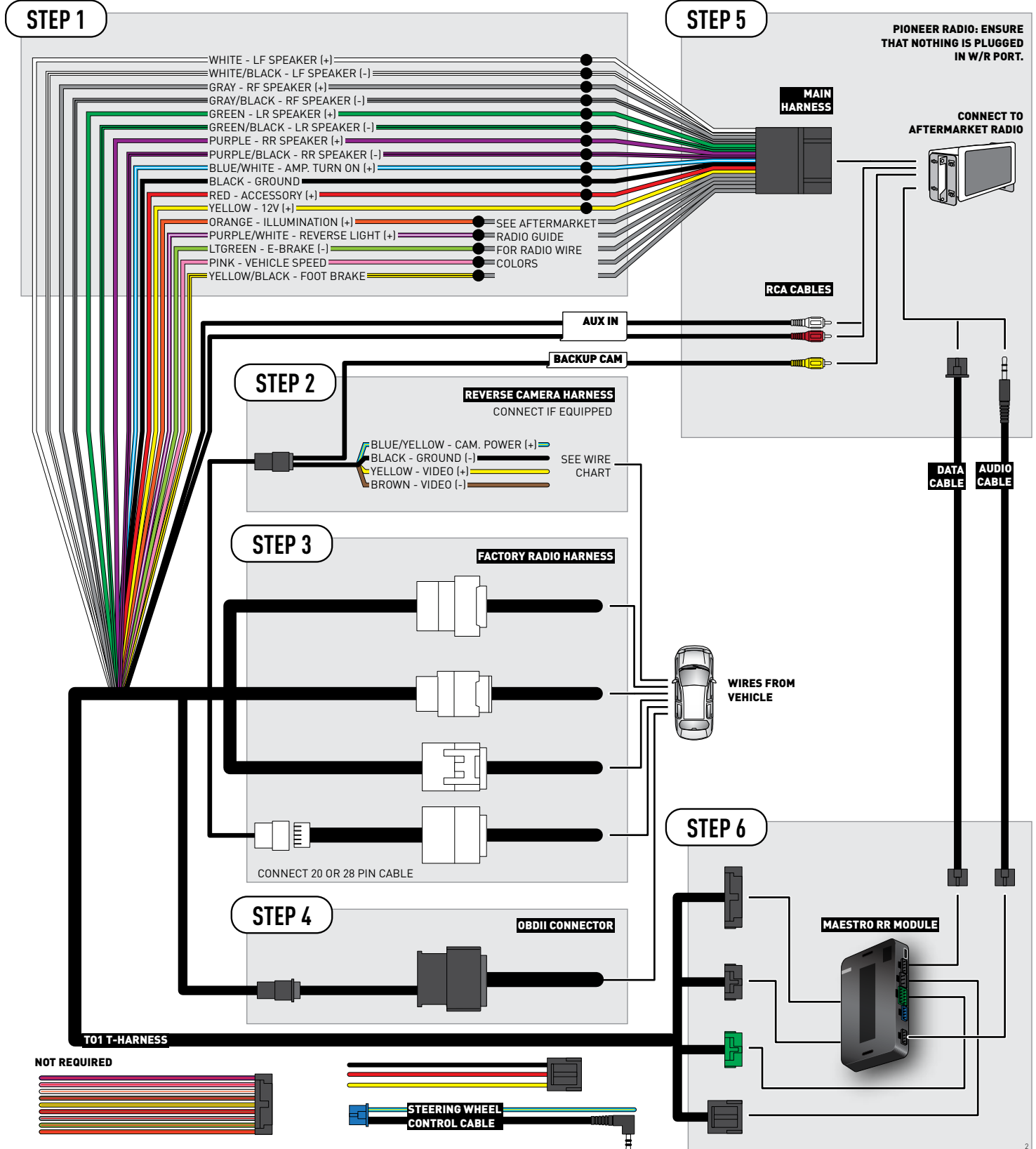
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Before starting your installation, please ensure that your iDatalink Maestro module is programmed with the correct firmware for your vehicle and that you carefully review the install guide.

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

# NEED HELP?

 1 866 427-2999

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

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Vehicle Wire Reference Chart	6
Troubleshooting Table	7

# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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).

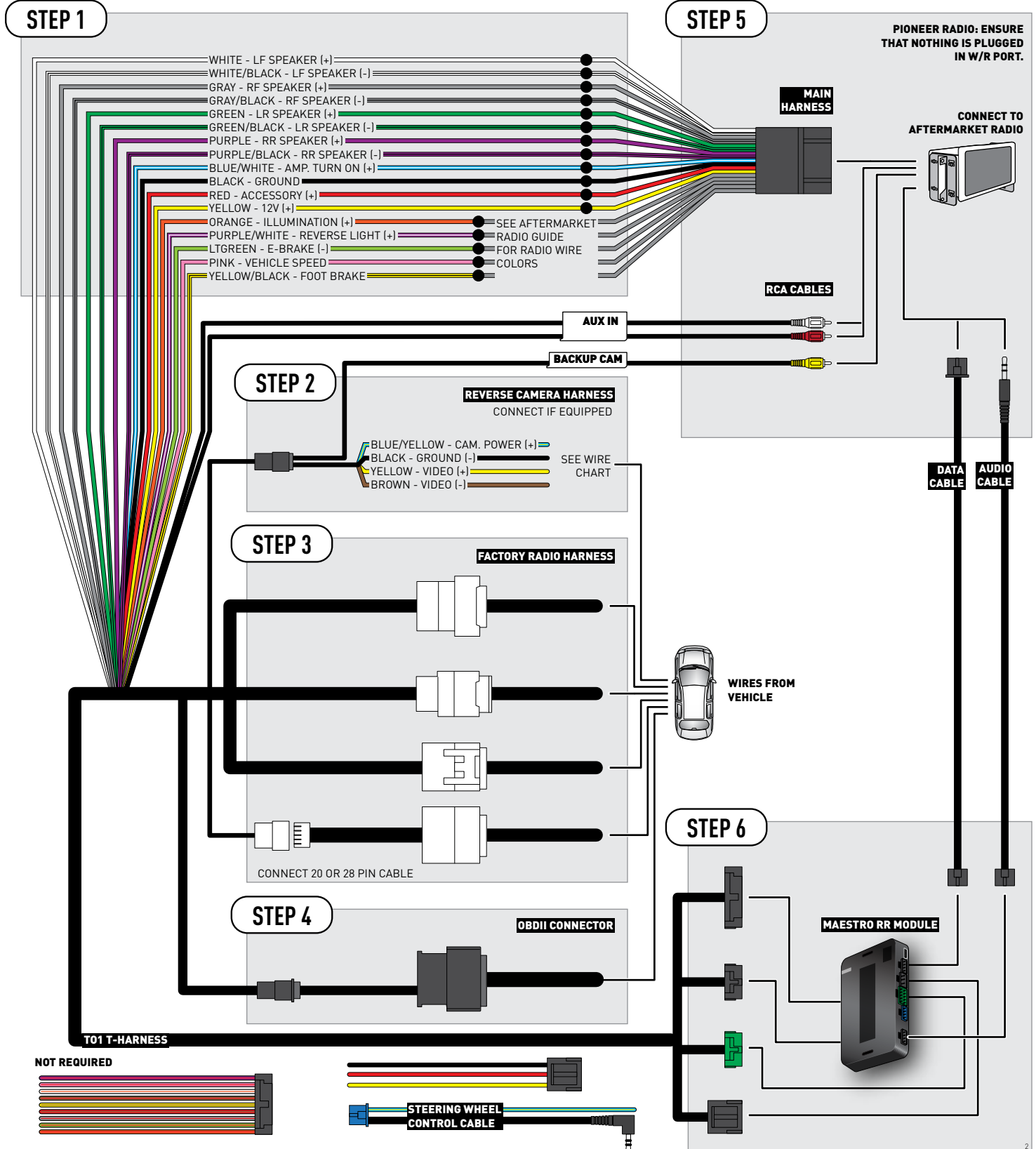
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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



# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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**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 T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

**K40**<sup>™</sup>  
ELECTRONICS  
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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

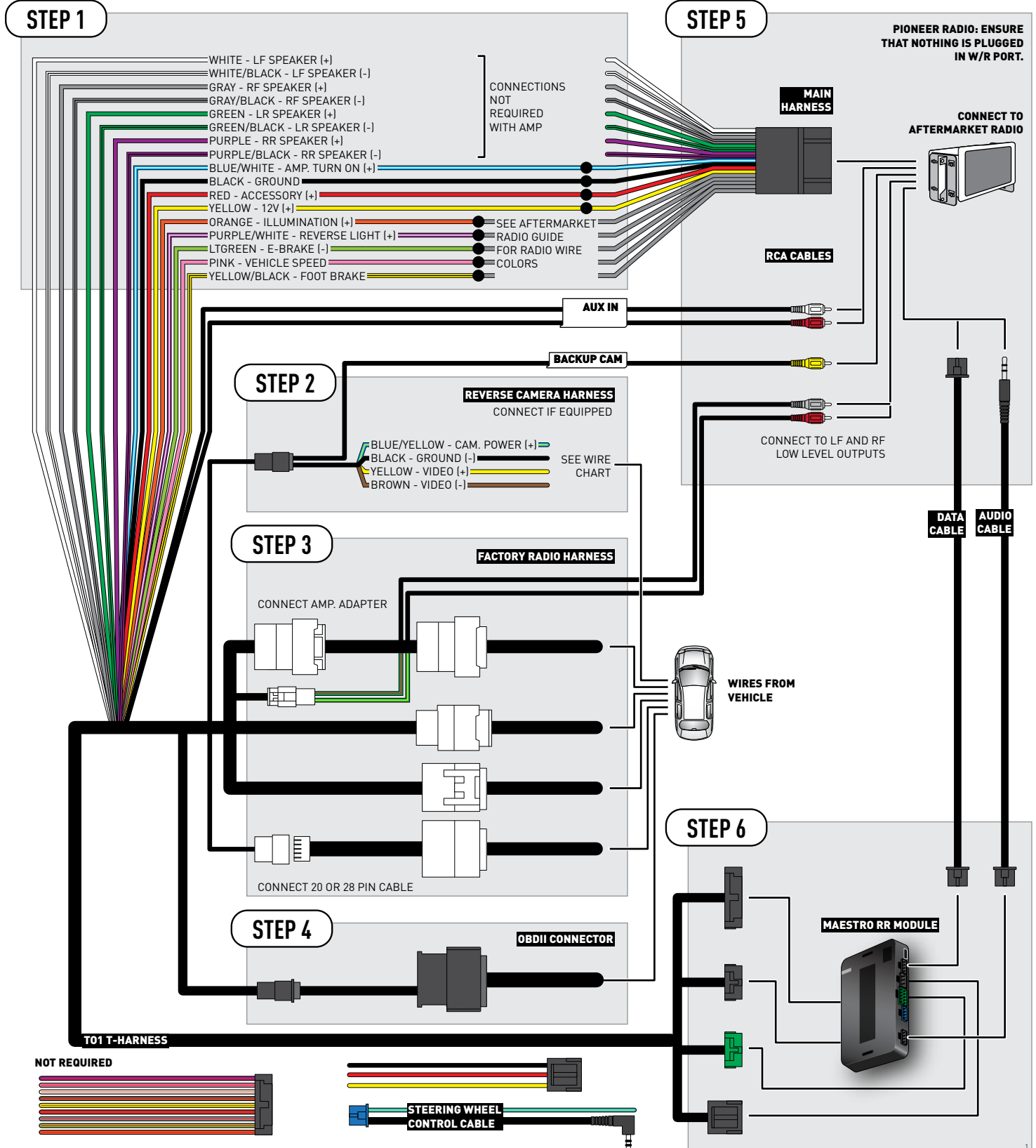
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- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket 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

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

# VEHICLE WIRE REFERENCE CHART

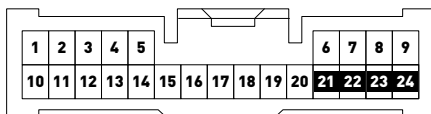
## 2006-2009

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

## 2010-2011

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	White	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Black	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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#### ADDITIONAL RESOURCES

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

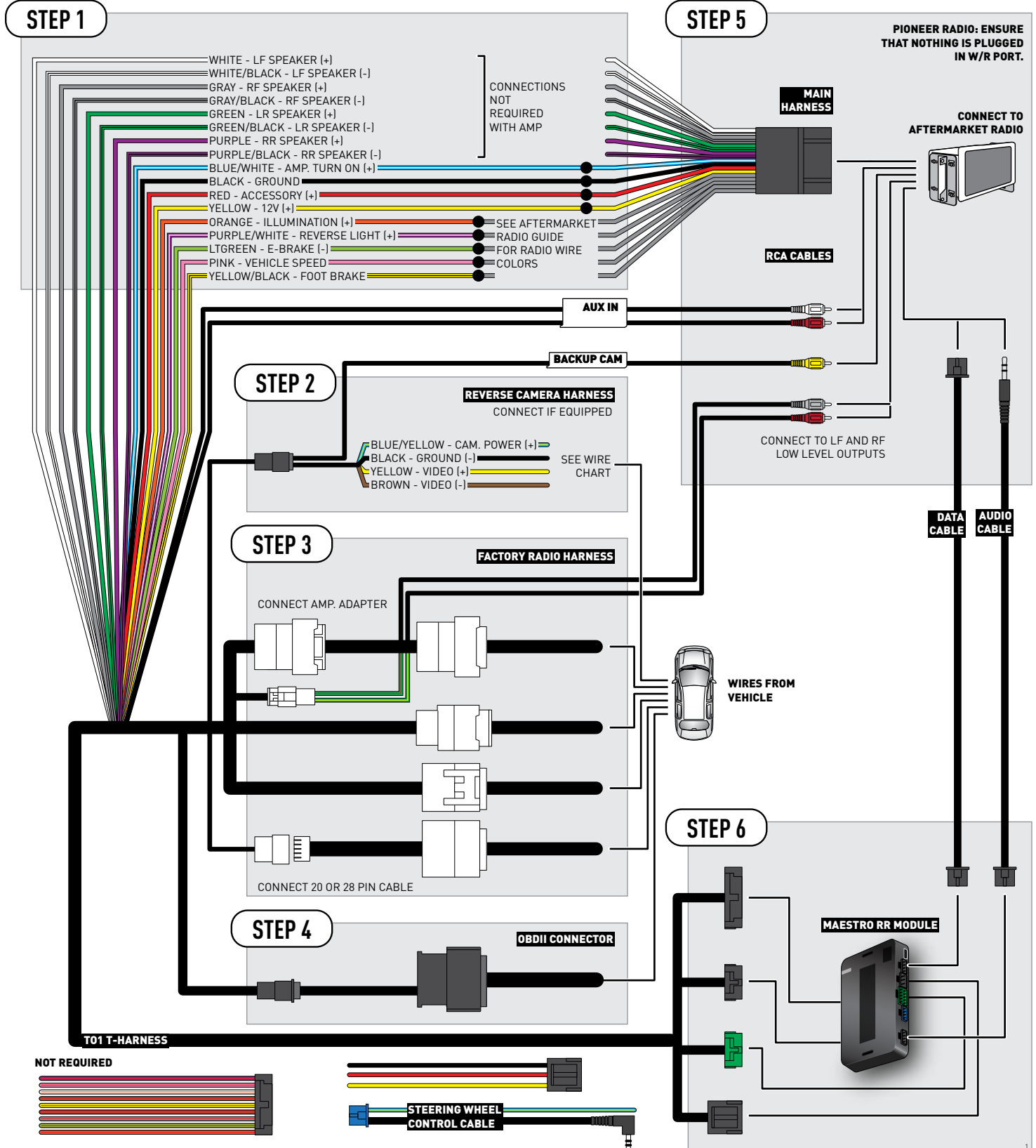
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

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



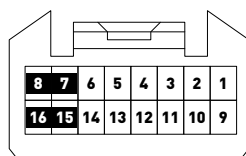
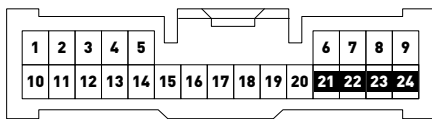
# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	White	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Black	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Red	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

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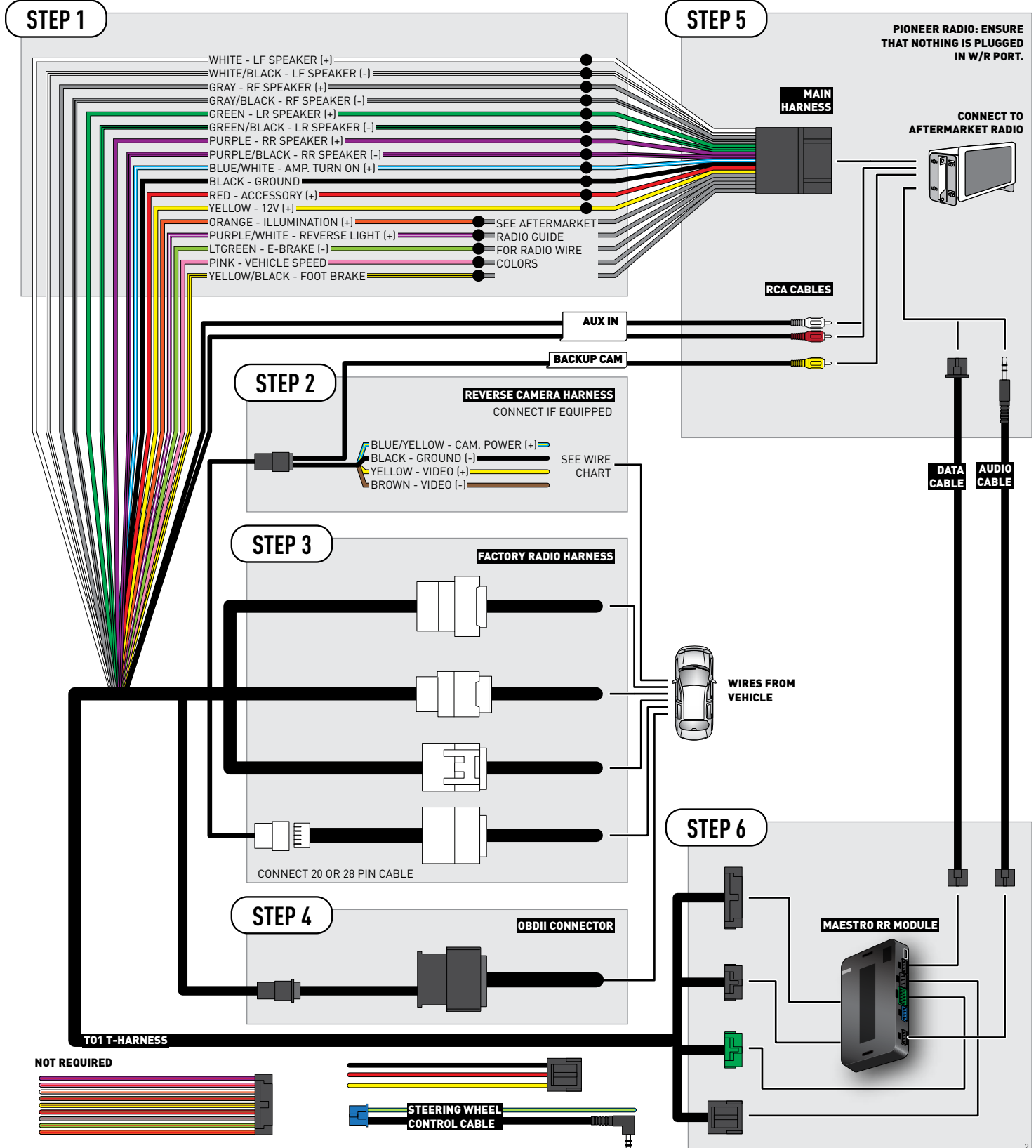
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT



# TROUBLESHOOTING TABLE

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

## 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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Web: [maestro.idatalink.com/support](http://maestro.idatalink.com/support) add [www.12voltdata.com/forum/](http://www.12voltdata.com/forum/)

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

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro TO1 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES



Click here for:  
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# WELCOME

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

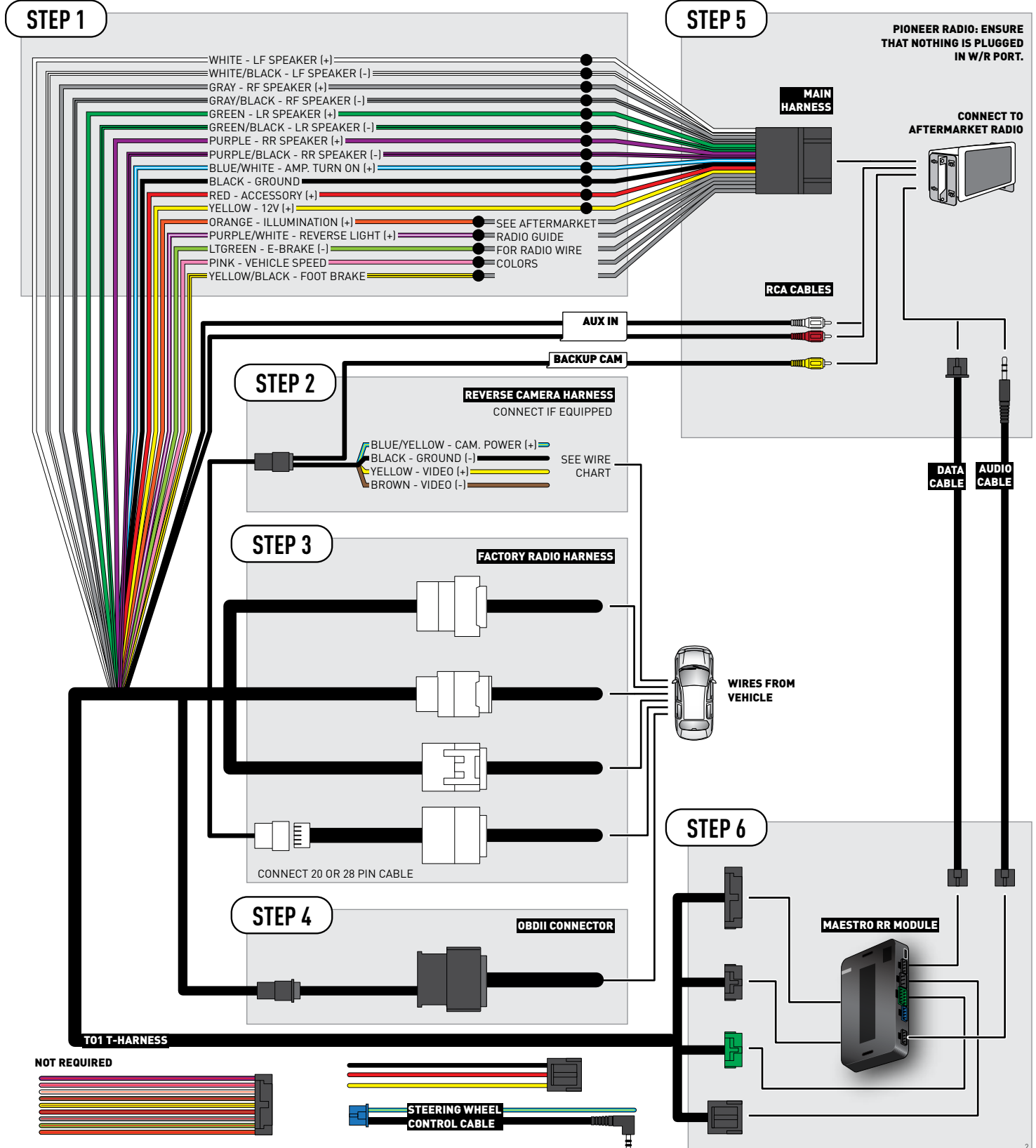
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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

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

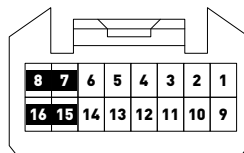
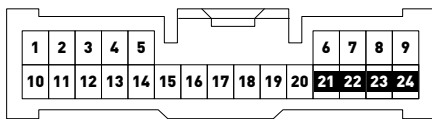
# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	White	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Black	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Red	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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# WELCOME

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## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

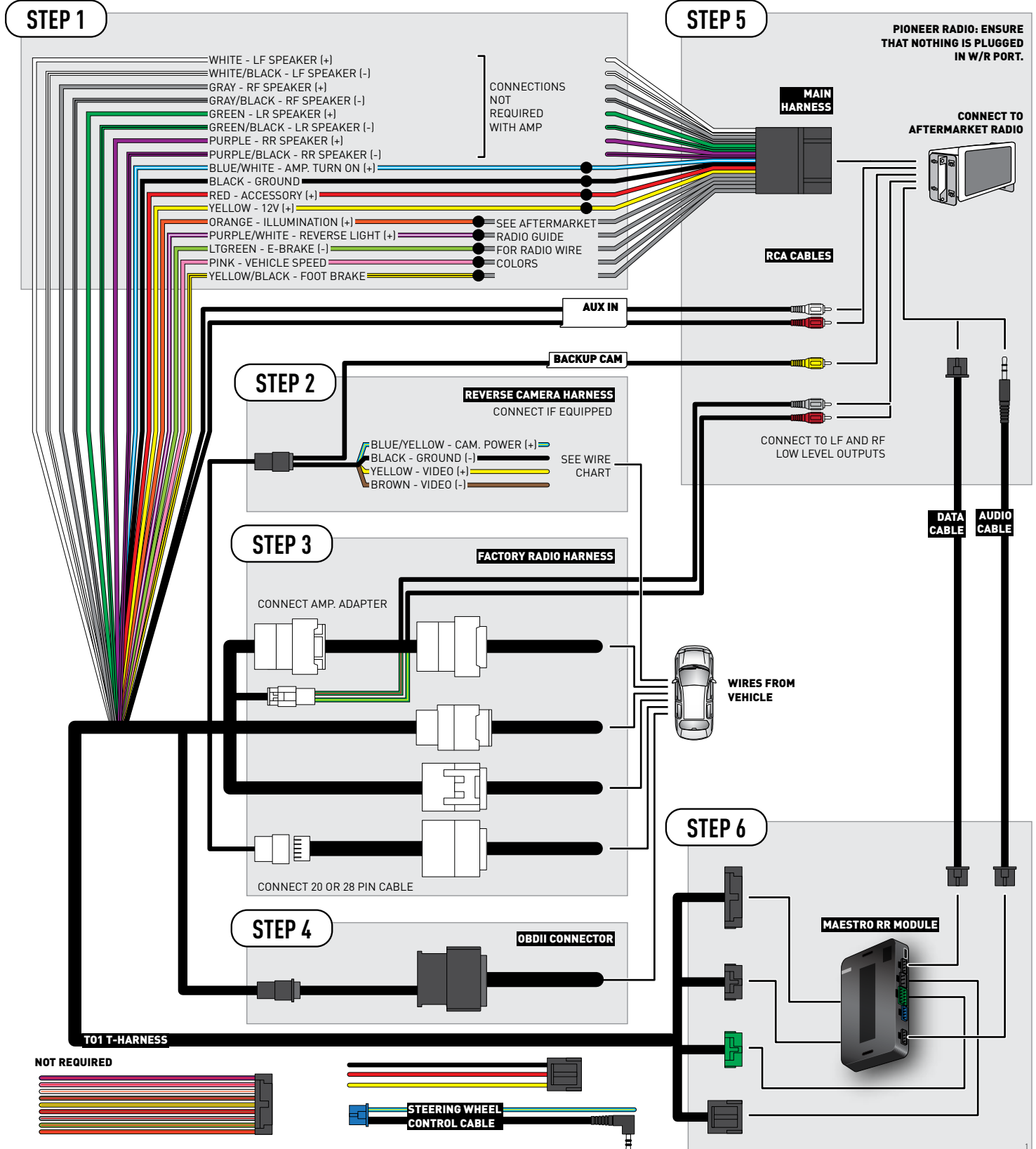
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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*



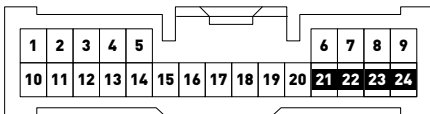
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Green	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Blue	(+)	Reverse camera harness
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## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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**RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!**



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- 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 T01 T-harness.

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

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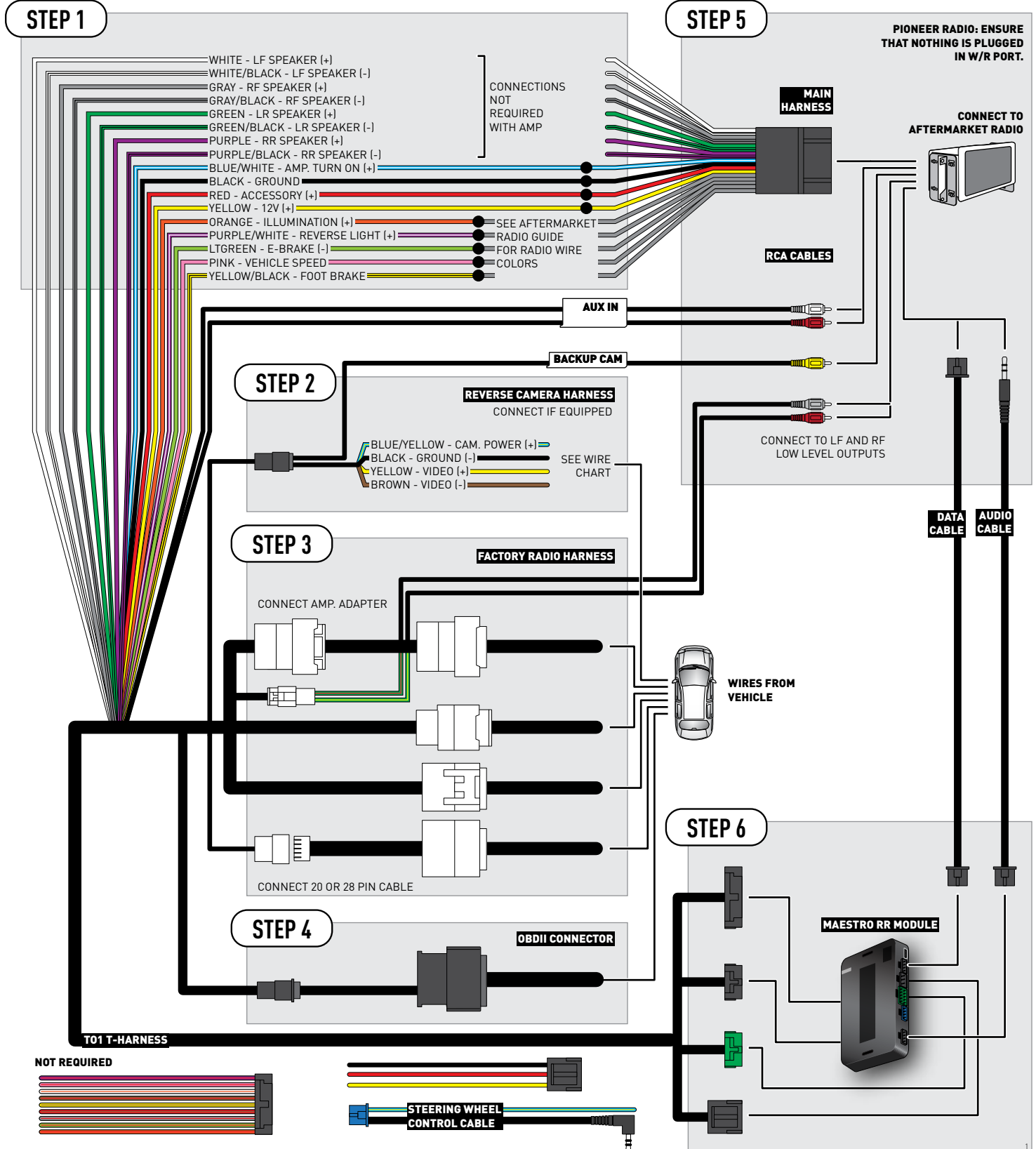
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*



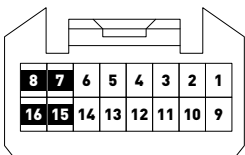
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
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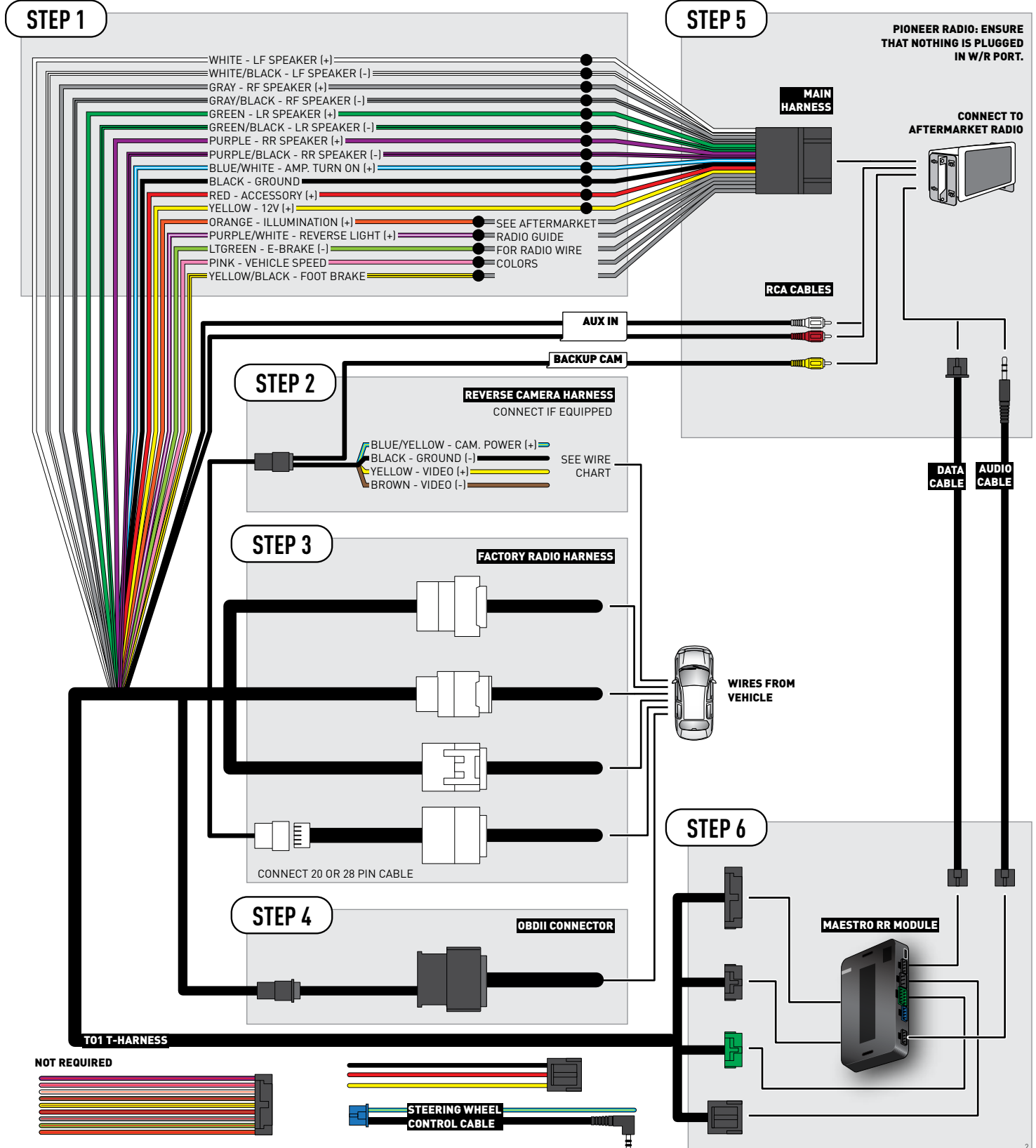
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## STEP 6

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

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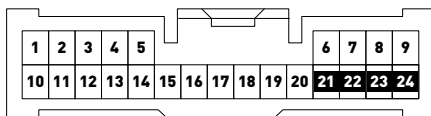
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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

# VEHICLE WIRE REFERENCE CHART

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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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)

Web: [maestro.idatalink.com/support](http://maestro.idatalink.com/support) add [www.12voltdata.com/forum/](http://www.12voltdata.com/forum/)

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

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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iDatalink Maestro T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES



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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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).

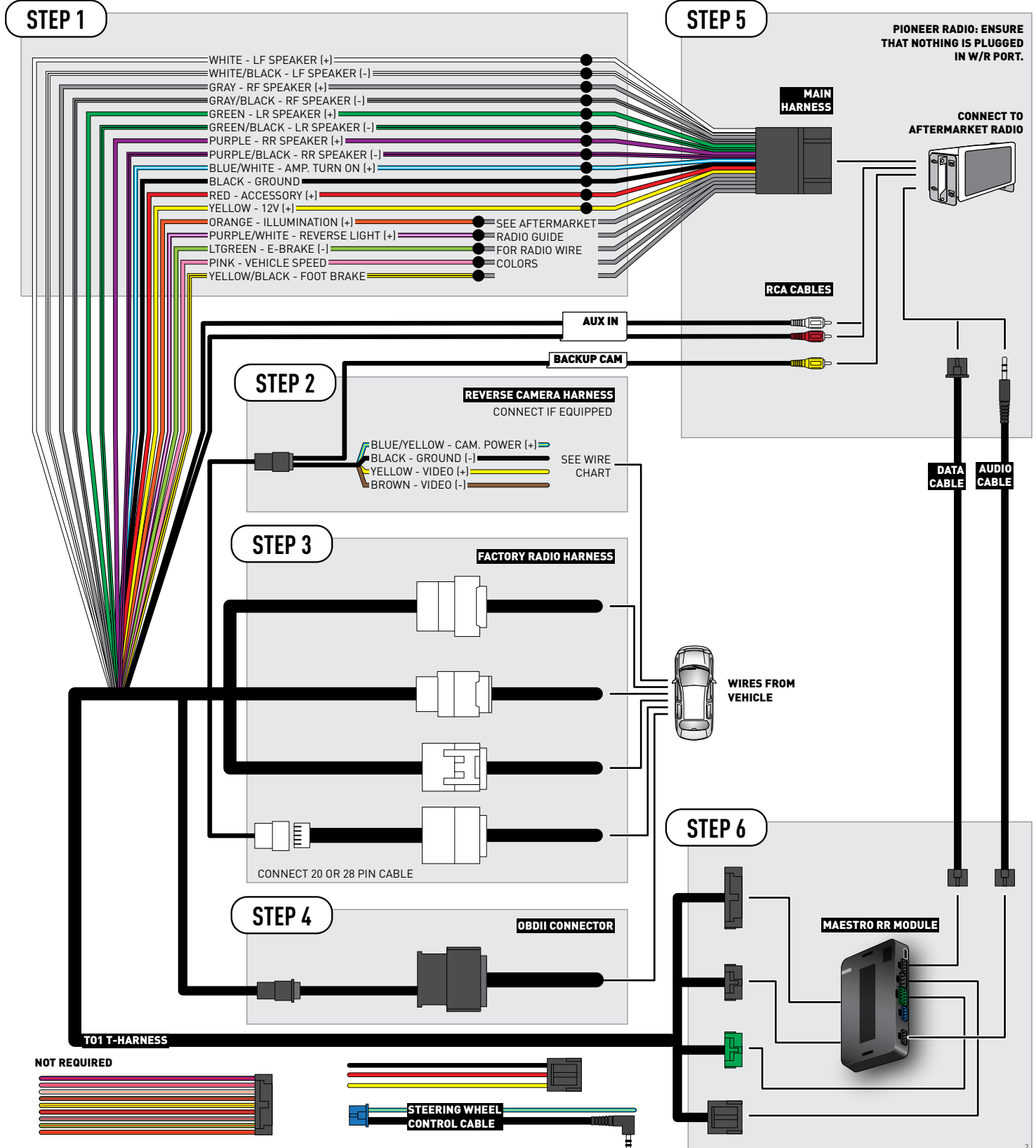
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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



# WIRING DIAGRAM *without an Amplifier*



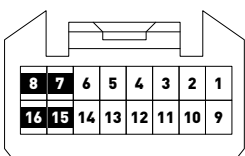
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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Red	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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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There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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**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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- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

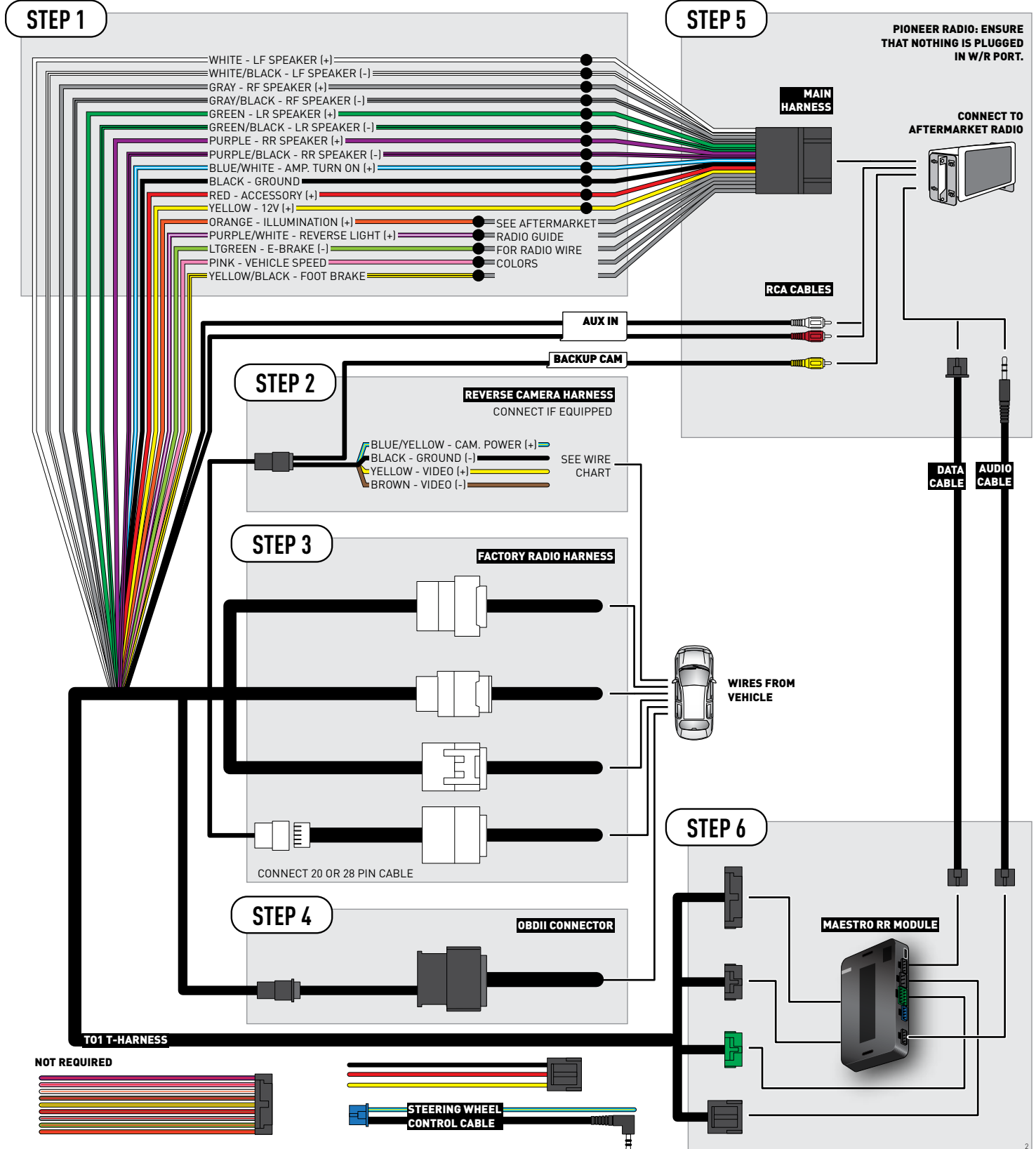
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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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**K40**<sup>™</sup>  
ELECTRONICS  
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## STEP 4

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

## STEP 5

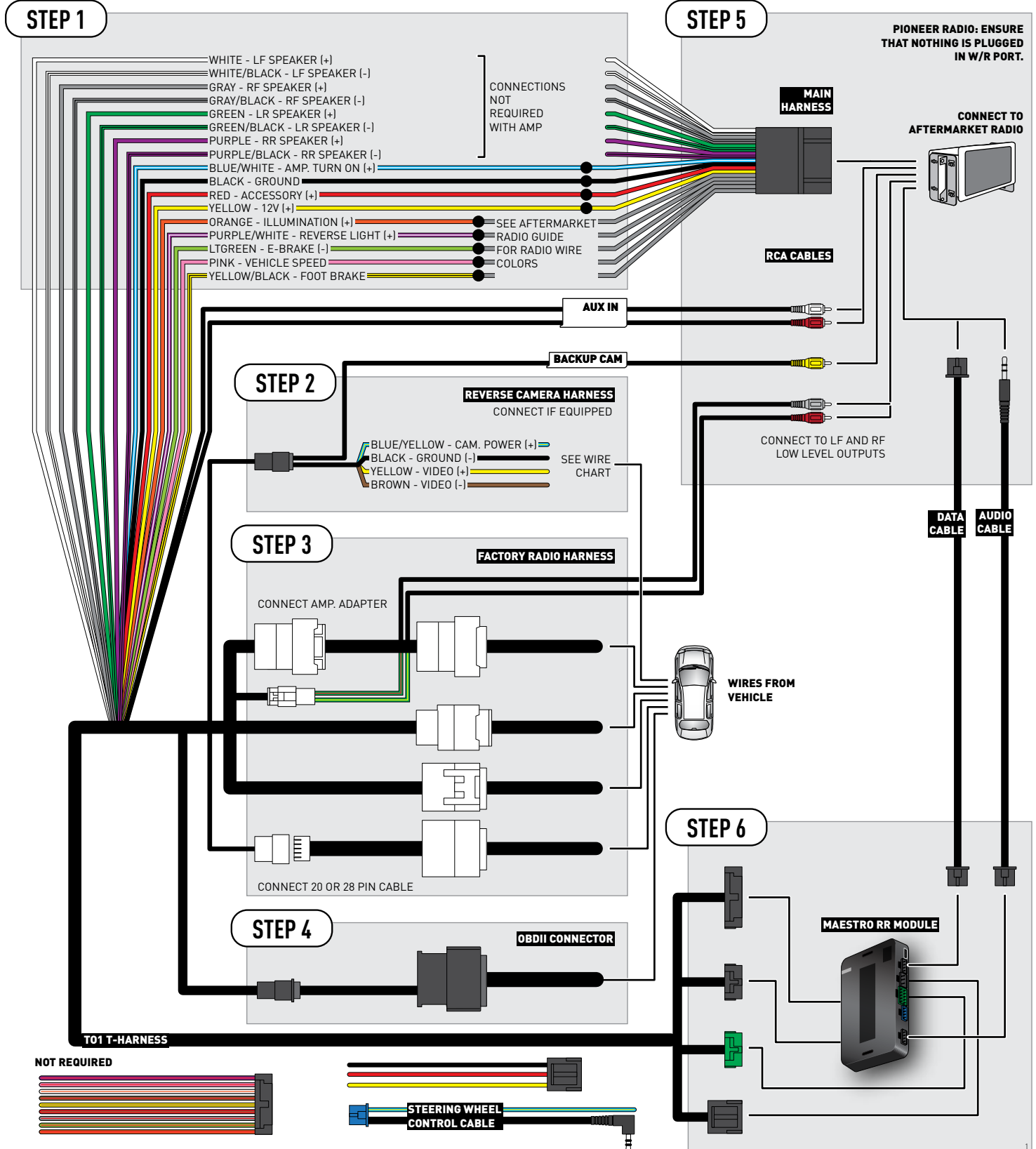
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

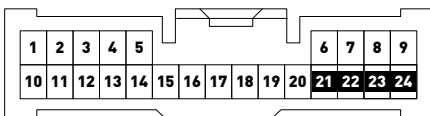
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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A



# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
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Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

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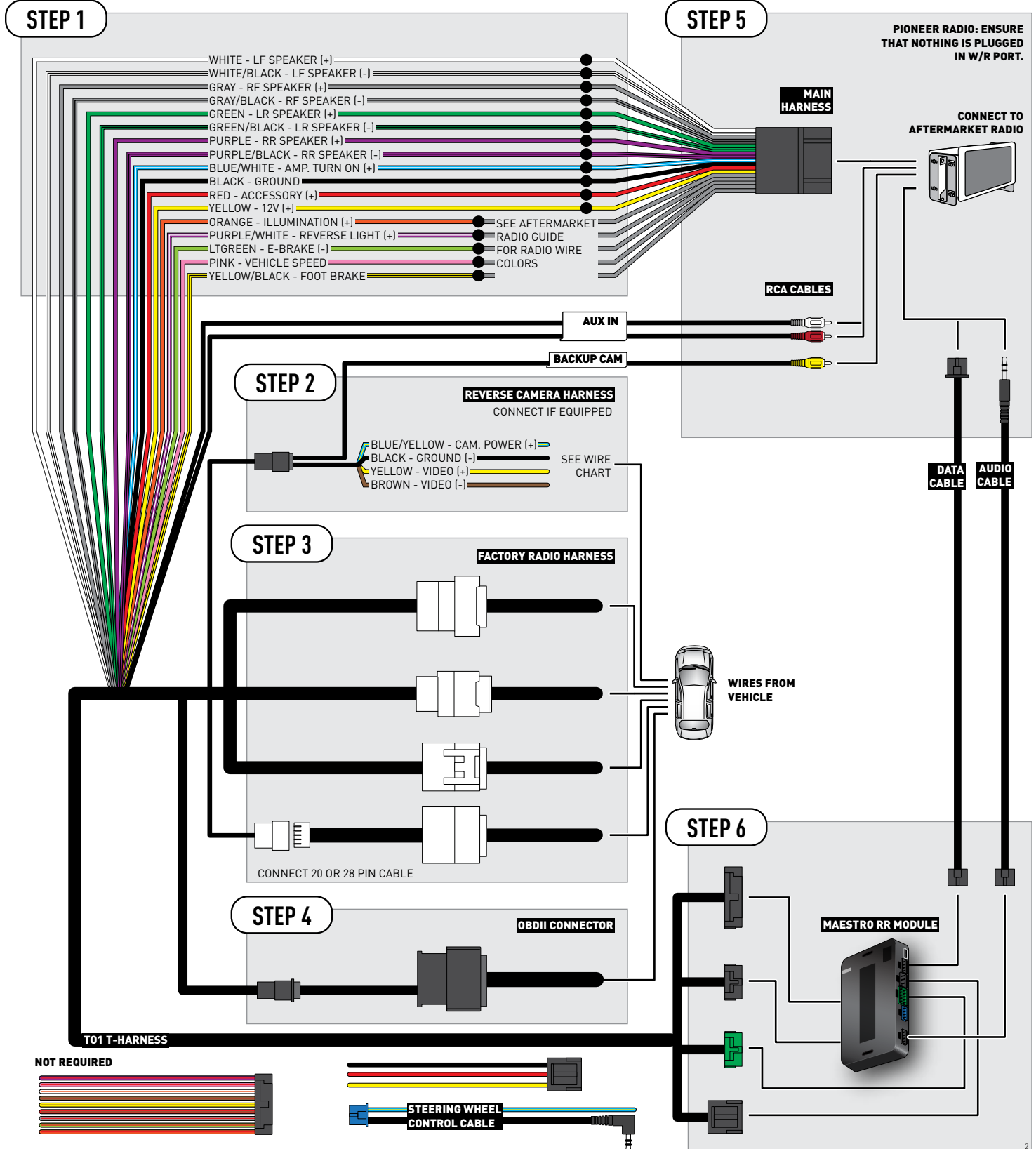
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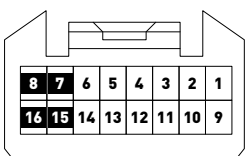
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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Red	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)





# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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)

Web: [maestro.idatalink.com/support](http://maestro.idatalink.com/support) add [www.12voltdata.com/forum/](http://www.12voltdata.com/forum/)

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

2007-2011  
TOYOTA CAMRY  
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro TO1 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

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# WELCOME

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# NEED HELP?

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

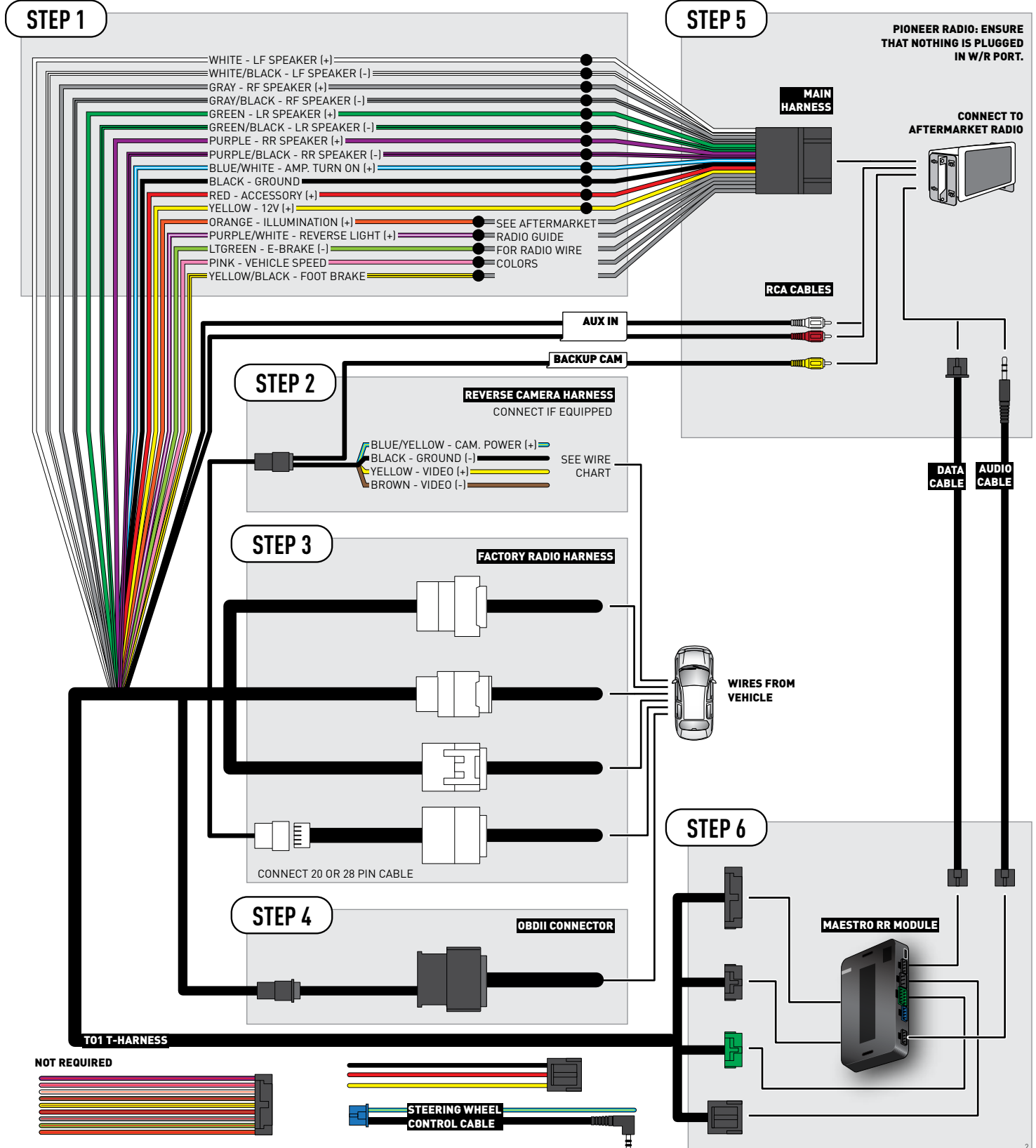
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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*



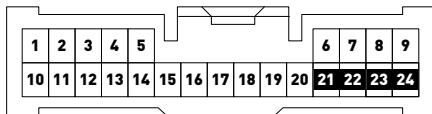
# RADIO WIRE REFERENCE CHART

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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

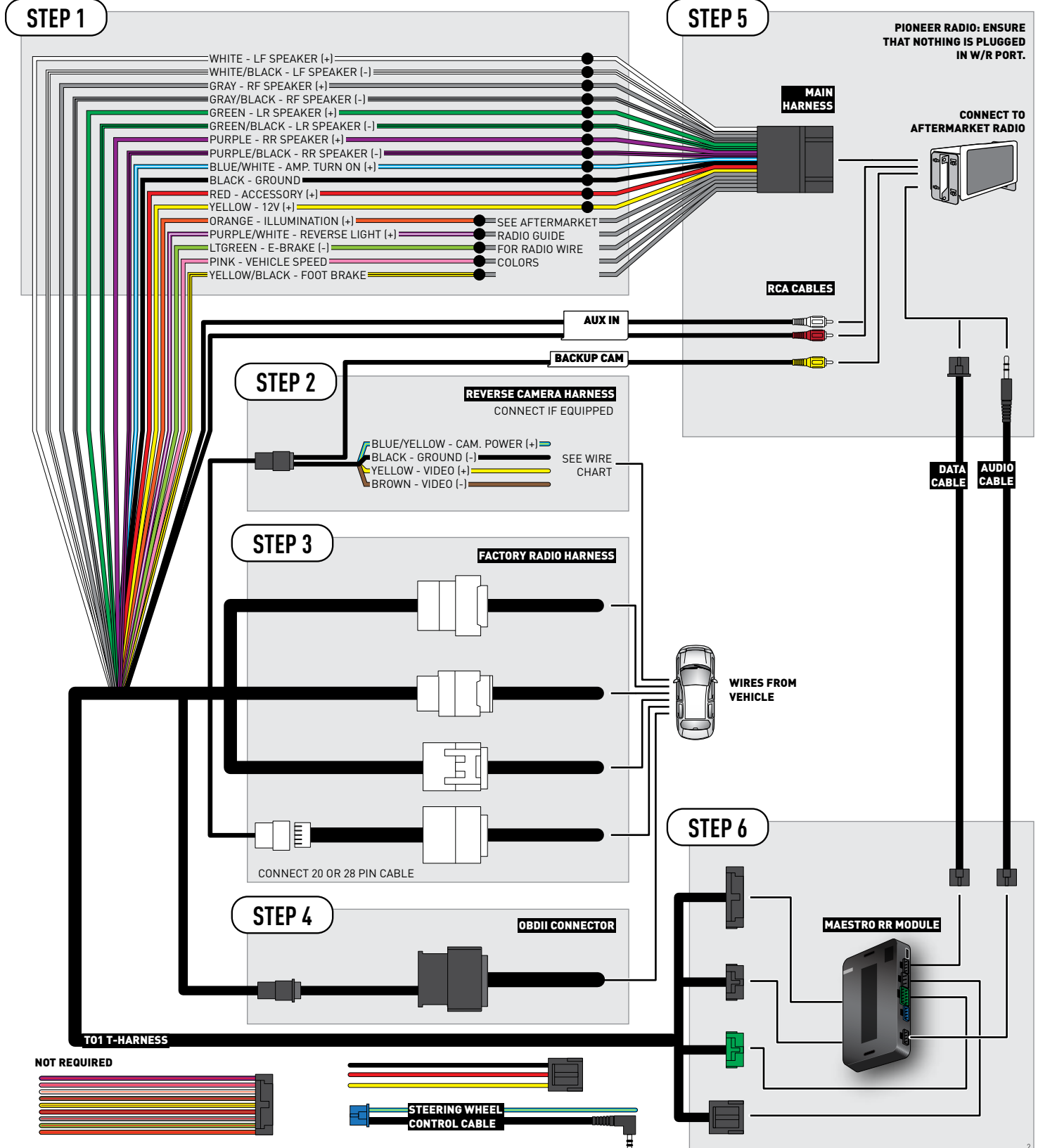
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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*



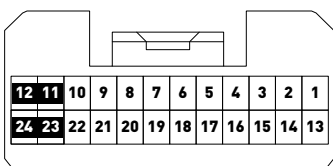
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

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

## 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

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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

## STEP 4

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

## STEP 5

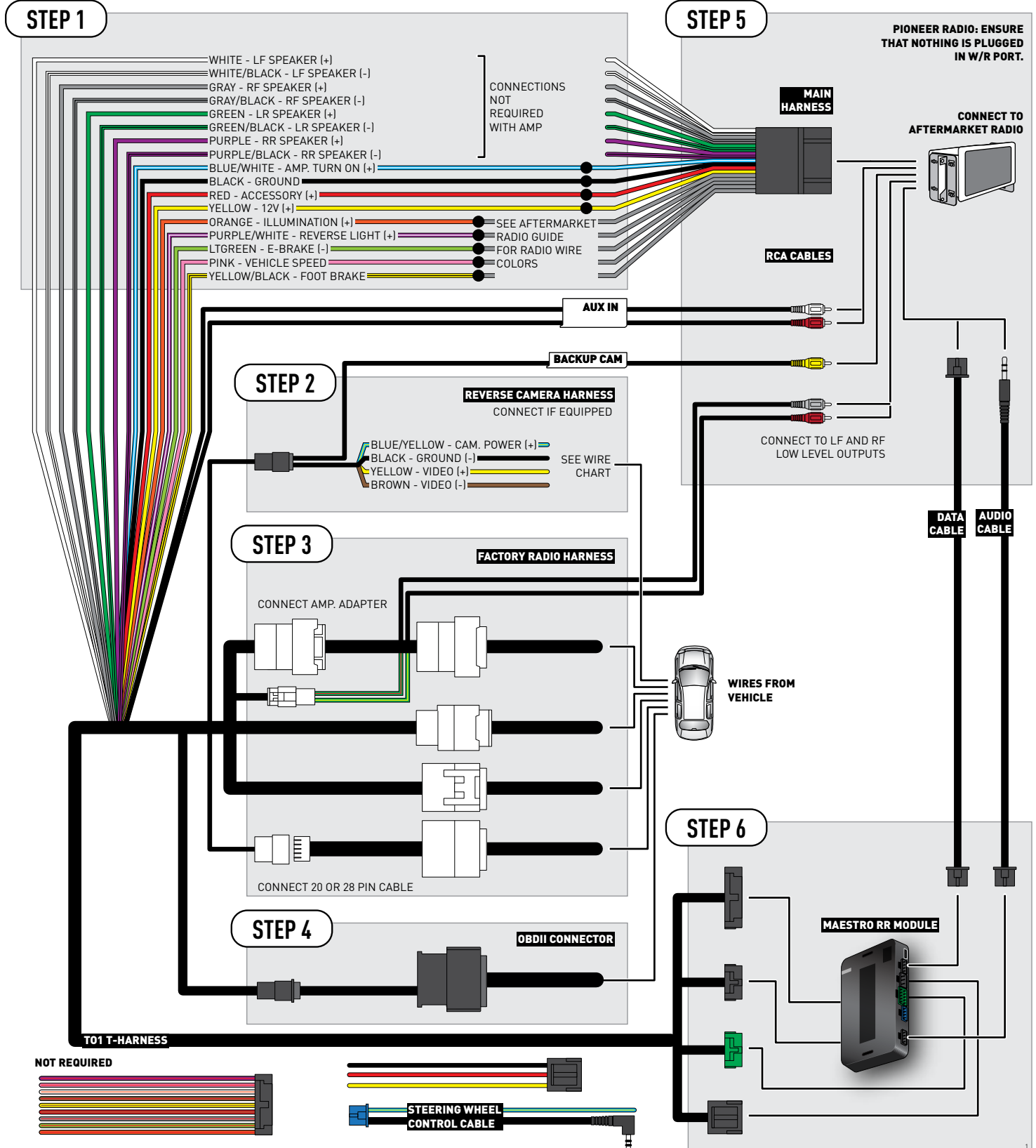
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
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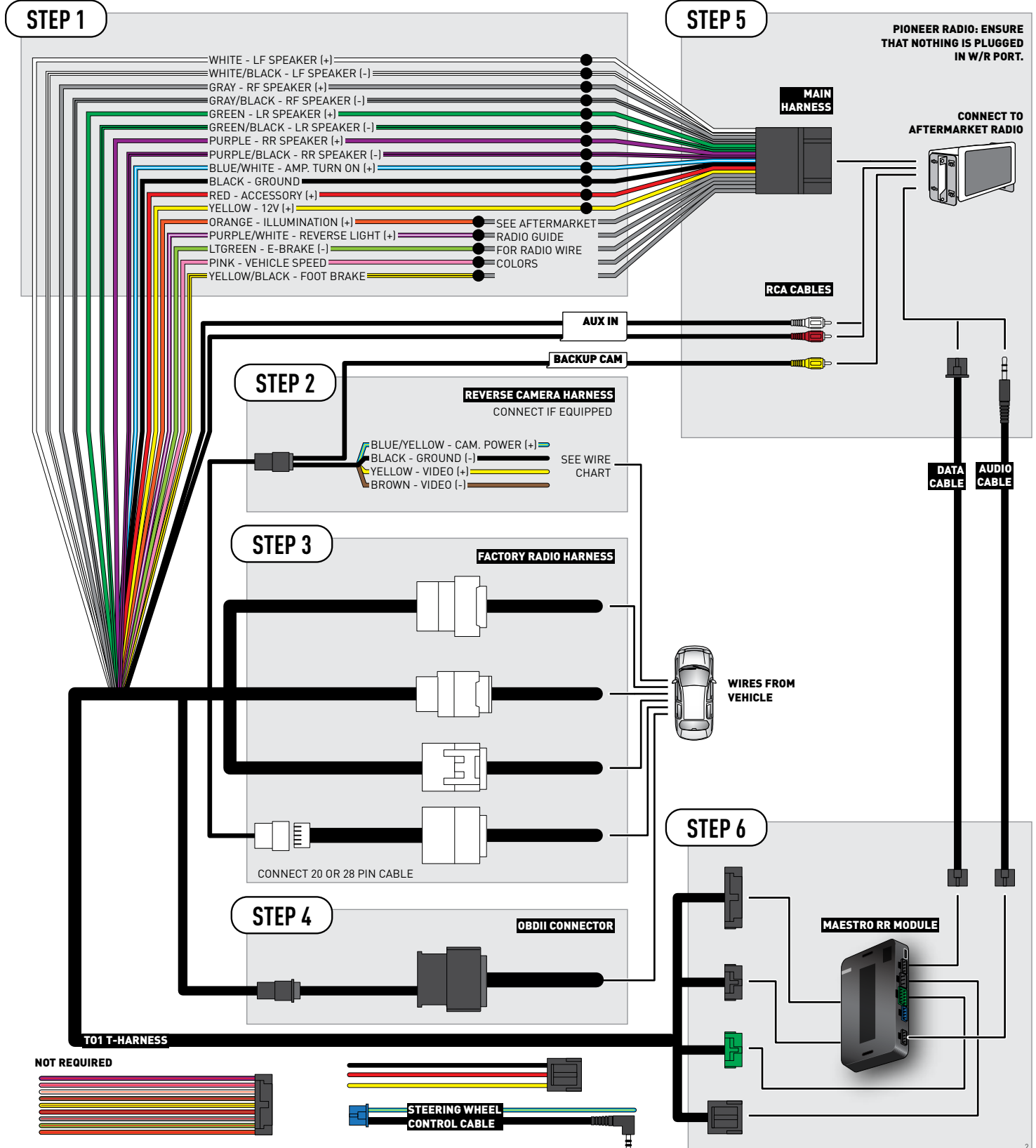
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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**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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#### PROGRAMMED FIRMWARE

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#### OPTIONAL ACCESSORIES

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

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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).

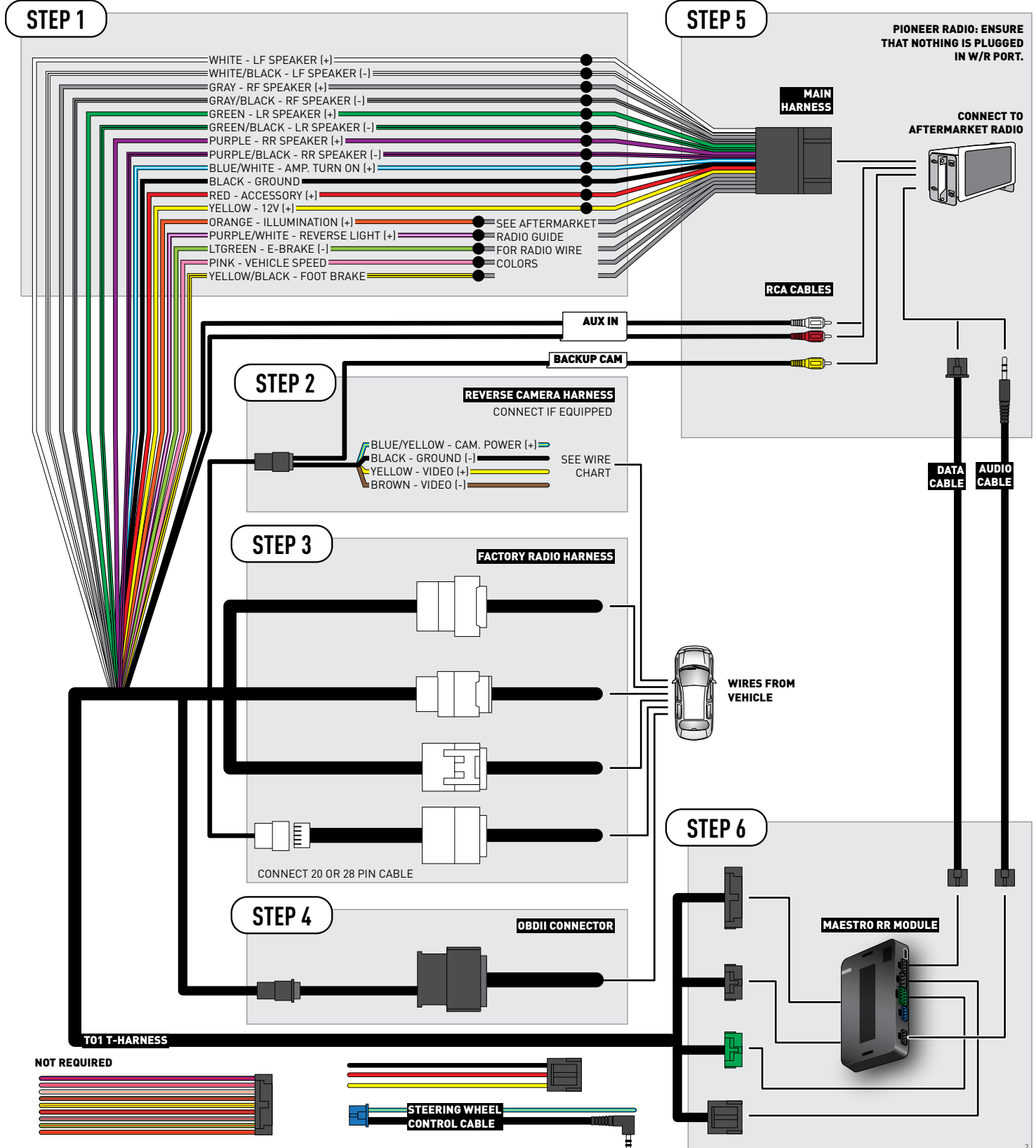
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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



# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

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

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

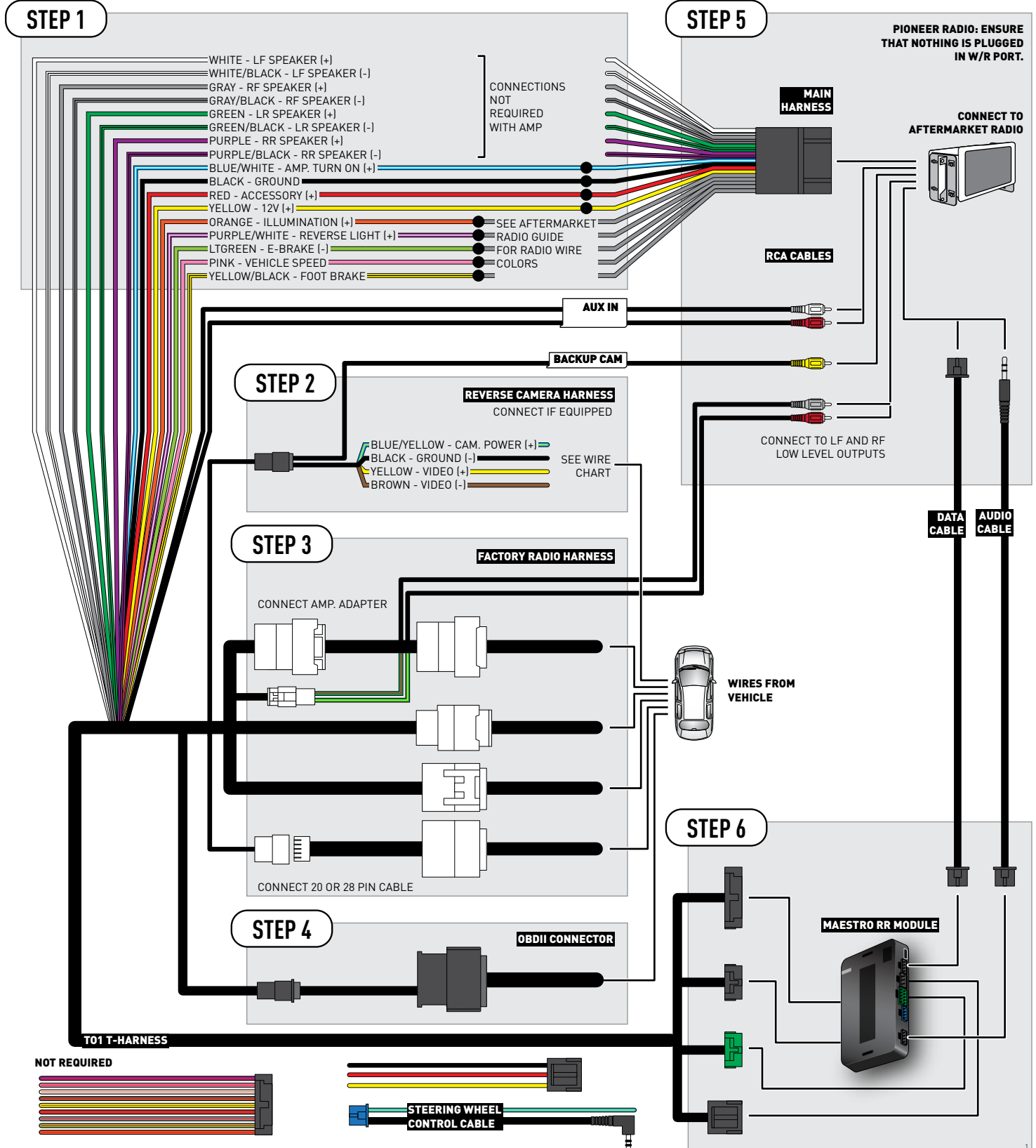
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

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



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#### OPTIONAL ACCESSORIES



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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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## STEP 1

- Unbox the aftermarket radio and locate its main harness.
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- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

## STEP 4

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

## STEP 5

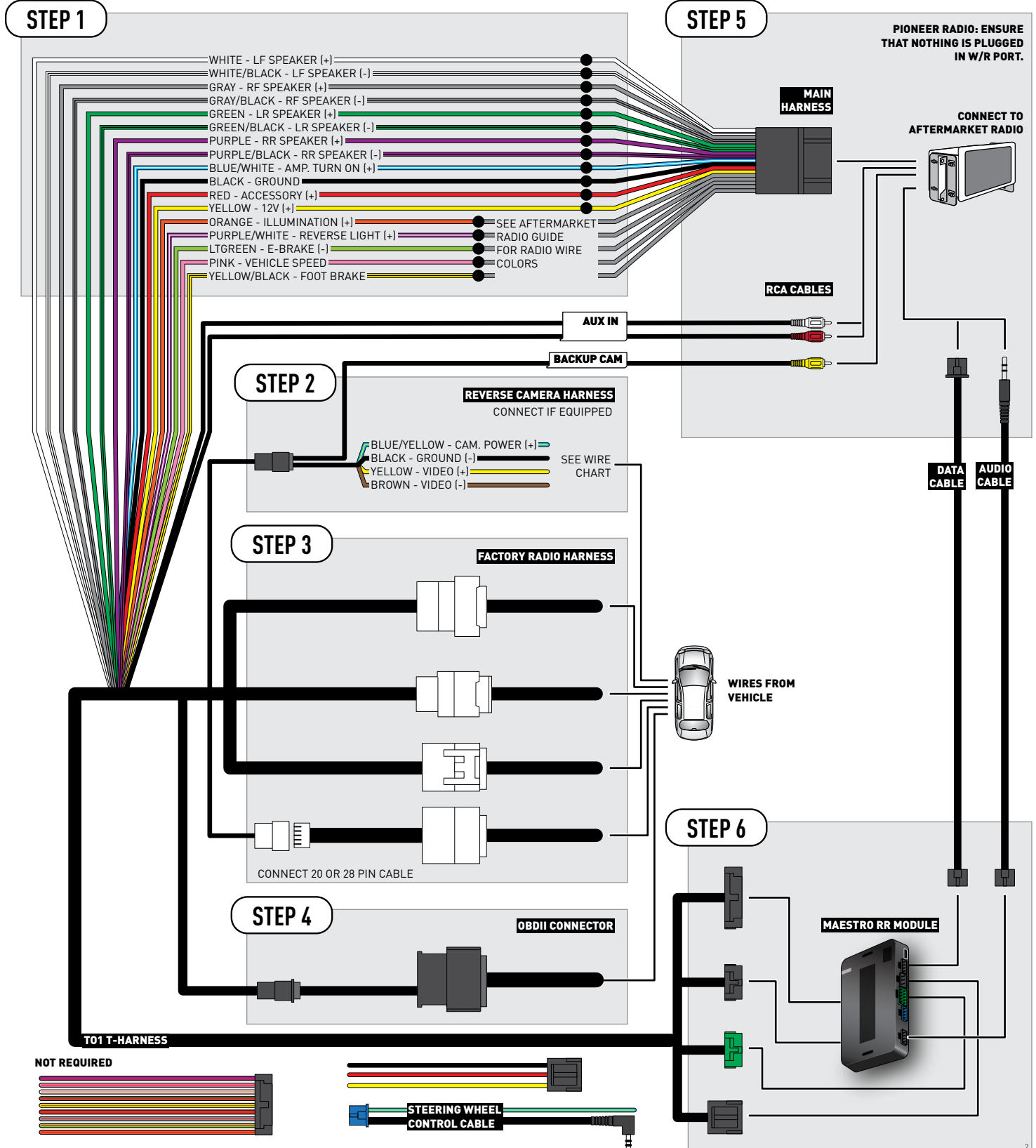
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A



# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

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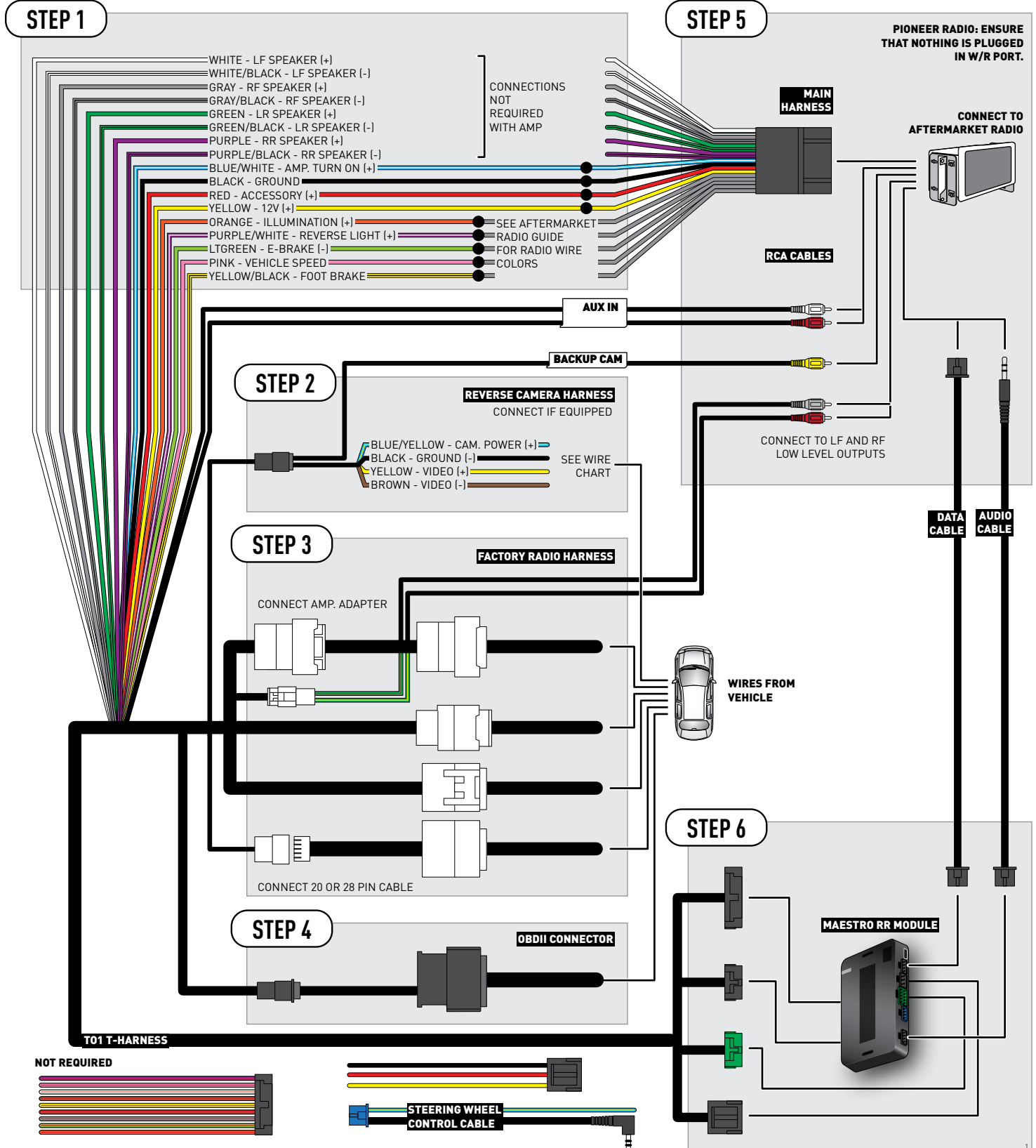
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# WIRING DIAGRAM *with an Amplifier*



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

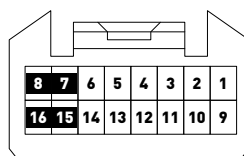
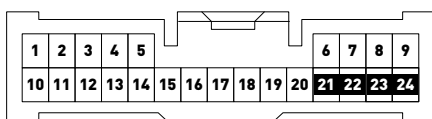
# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	White	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Shield	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)





# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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)

Web: [maestro.idatalink.com/support](http://maestro.idatalink.com/support) add [www.12voltdata.com/forum/](http://www.12voltdata.com/forum/)

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

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TOYOTA HIGHLANDER  
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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iDatalink Maestro T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-D5

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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# WELCOME

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# NEED HELP?

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

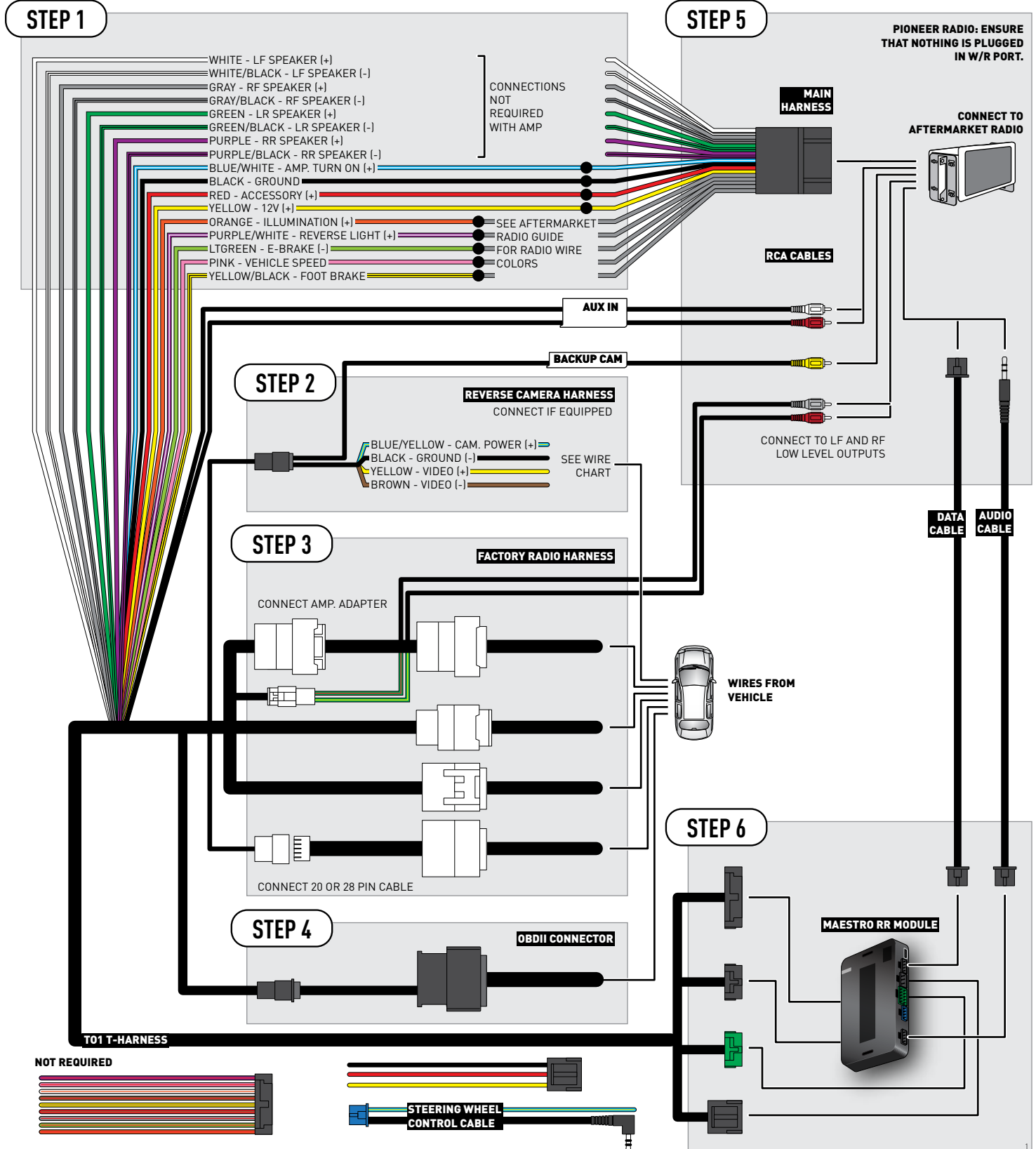
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

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

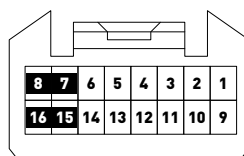
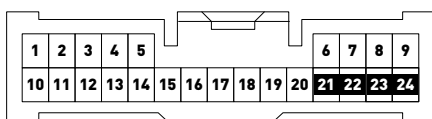
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Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

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Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
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## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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iDatalink Maestro T01 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

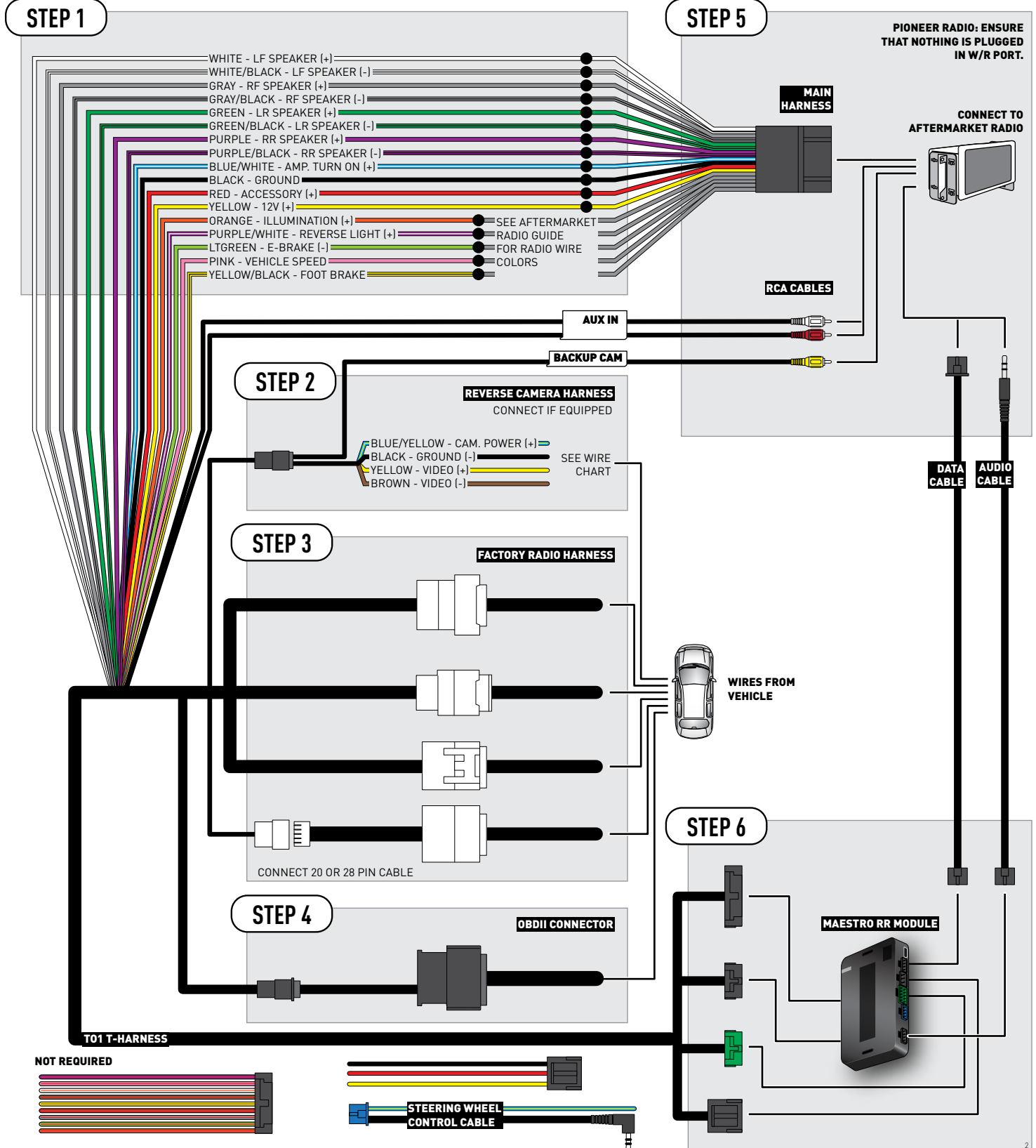
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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.	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).
<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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TOYOTA HIGHLANDER  
WITHOUT JBL

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- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

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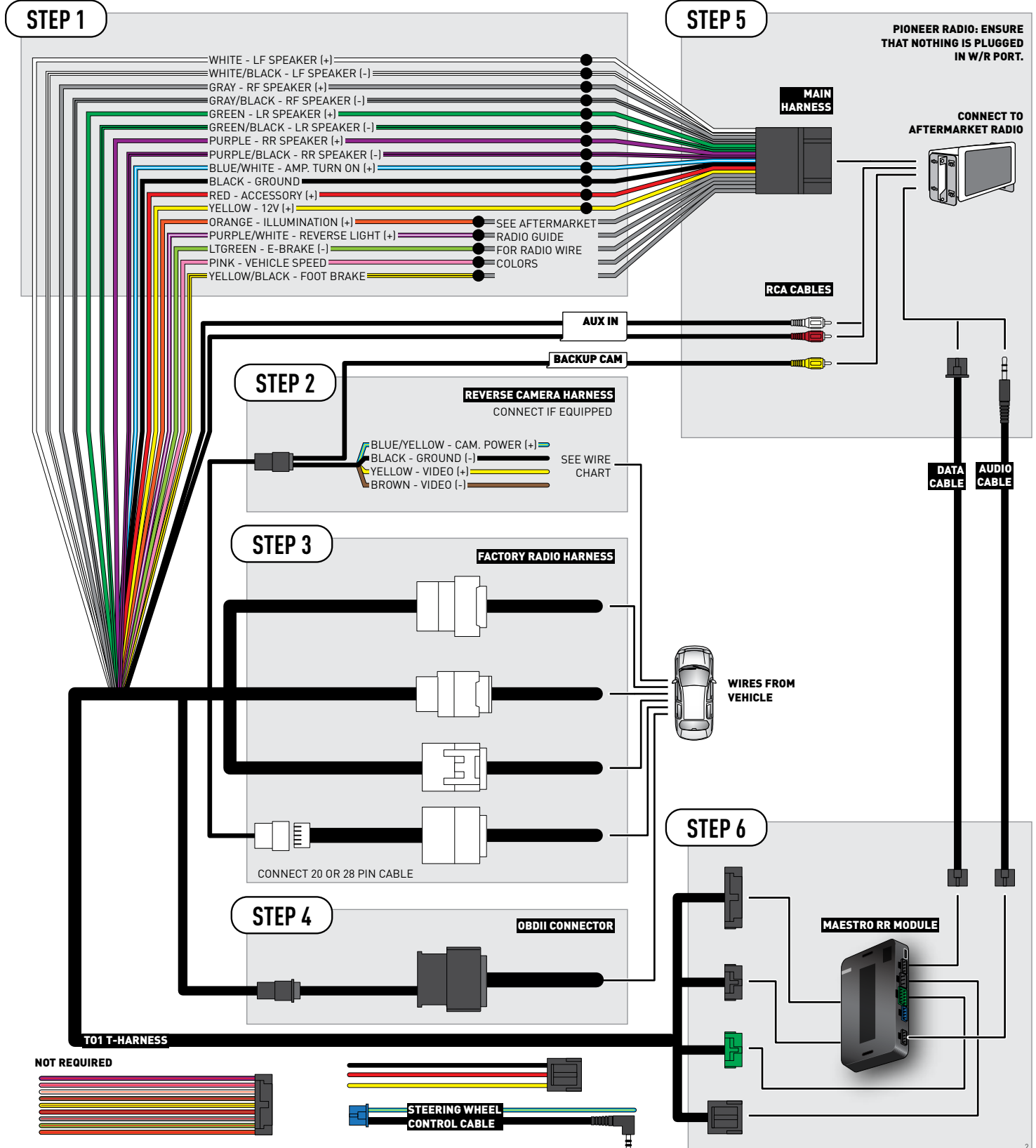
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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# WIRING DIAGRAM *without an Amplifier*



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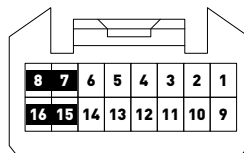
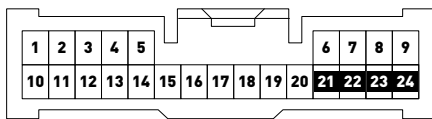
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## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# 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 OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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.  
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## 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 T01 T-harness.

## STEP 4

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

## STEP 5

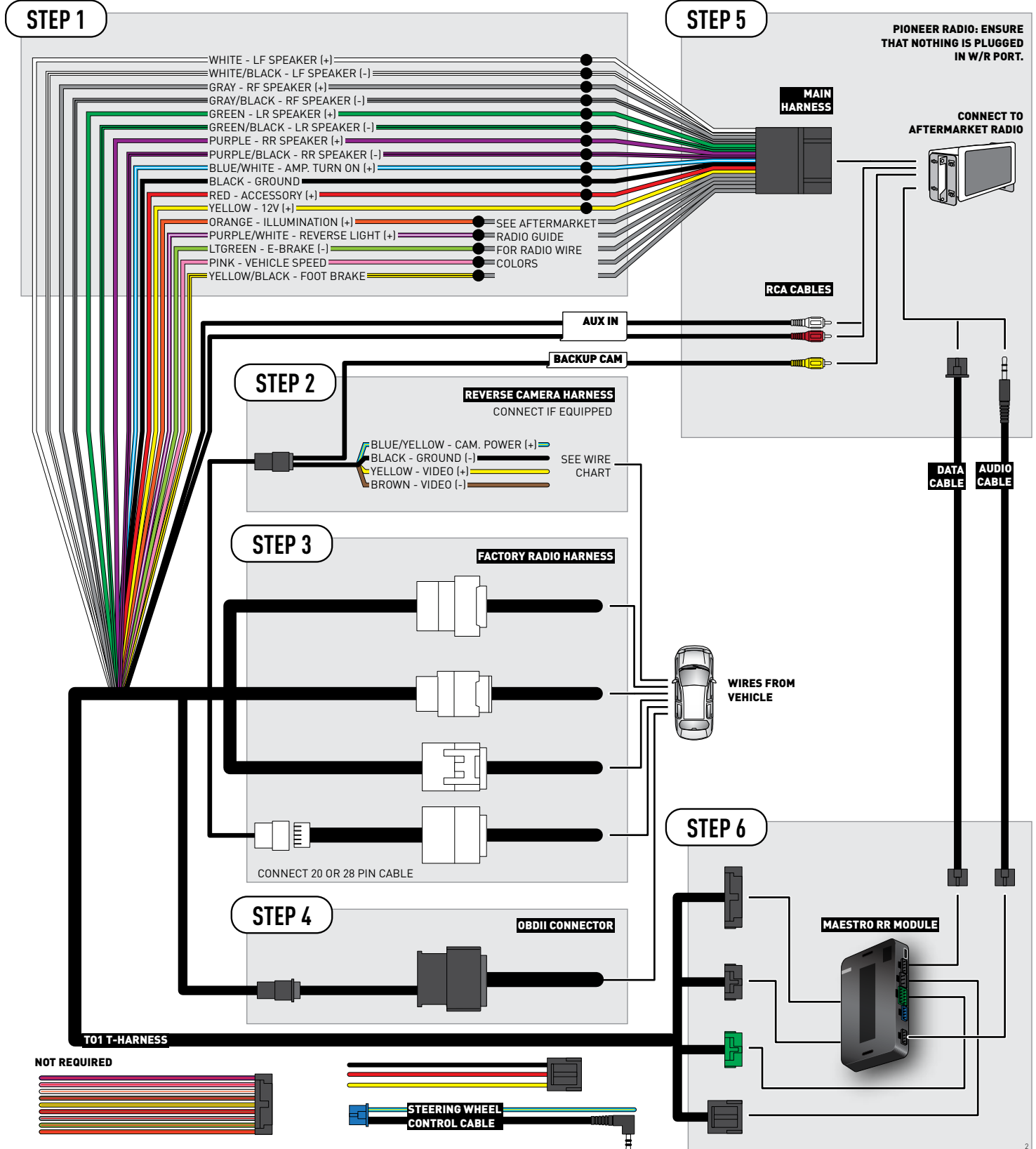
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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)

Web: [maestro.idatalink.com/support](http://maestro.idatalink.com/support) add [www.12voltdata.com/forum/](http://www.12voltdata.com/forum/)

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

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



#### PRODUCTS REQUIRED

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#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES



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# NEED HELP?

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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).

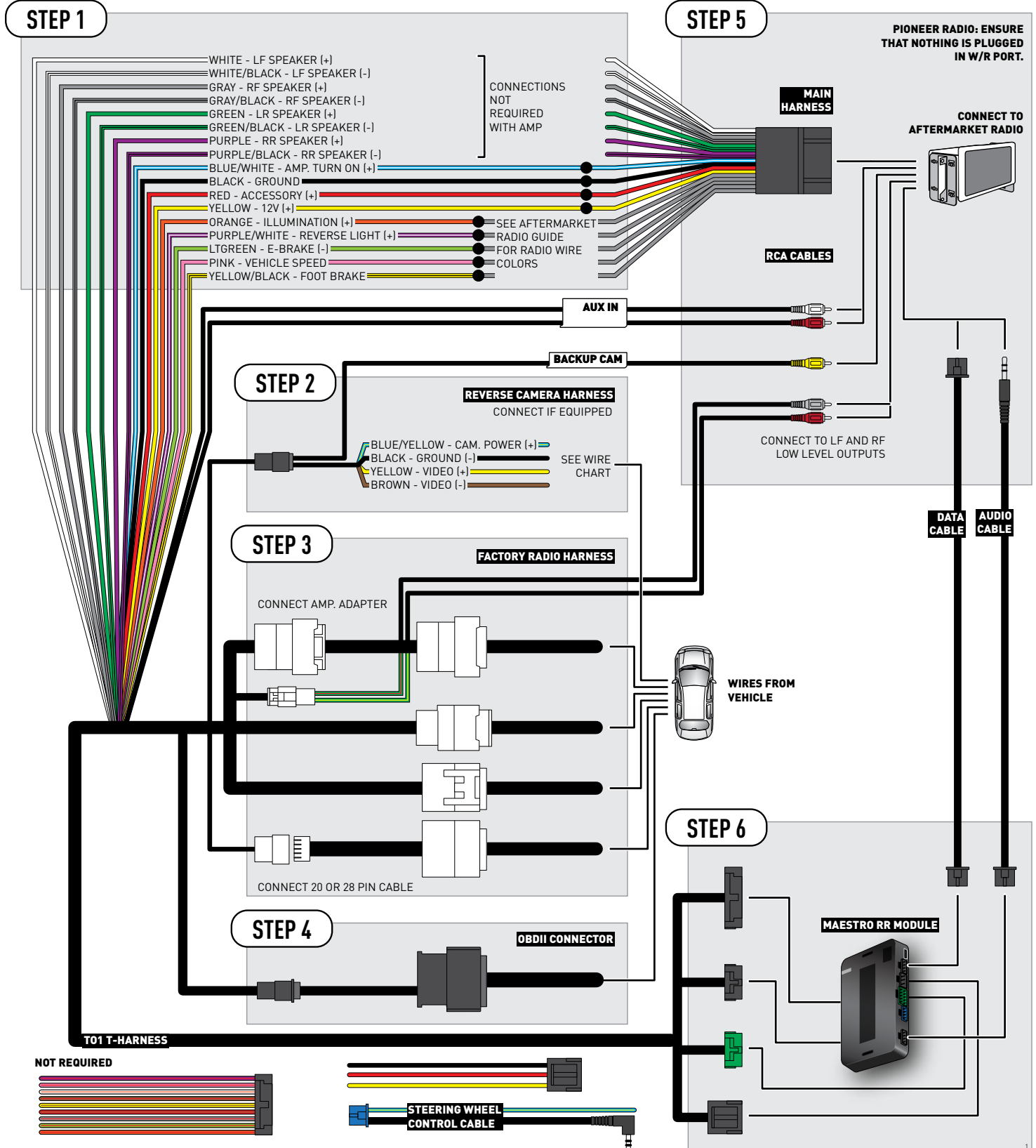
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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



# WIRING DIAGRAM *with an Amplifier*



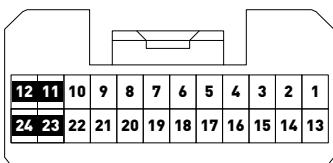
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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 Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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**K40**<sup>™</sup>  
ELECTRONICS  
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## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

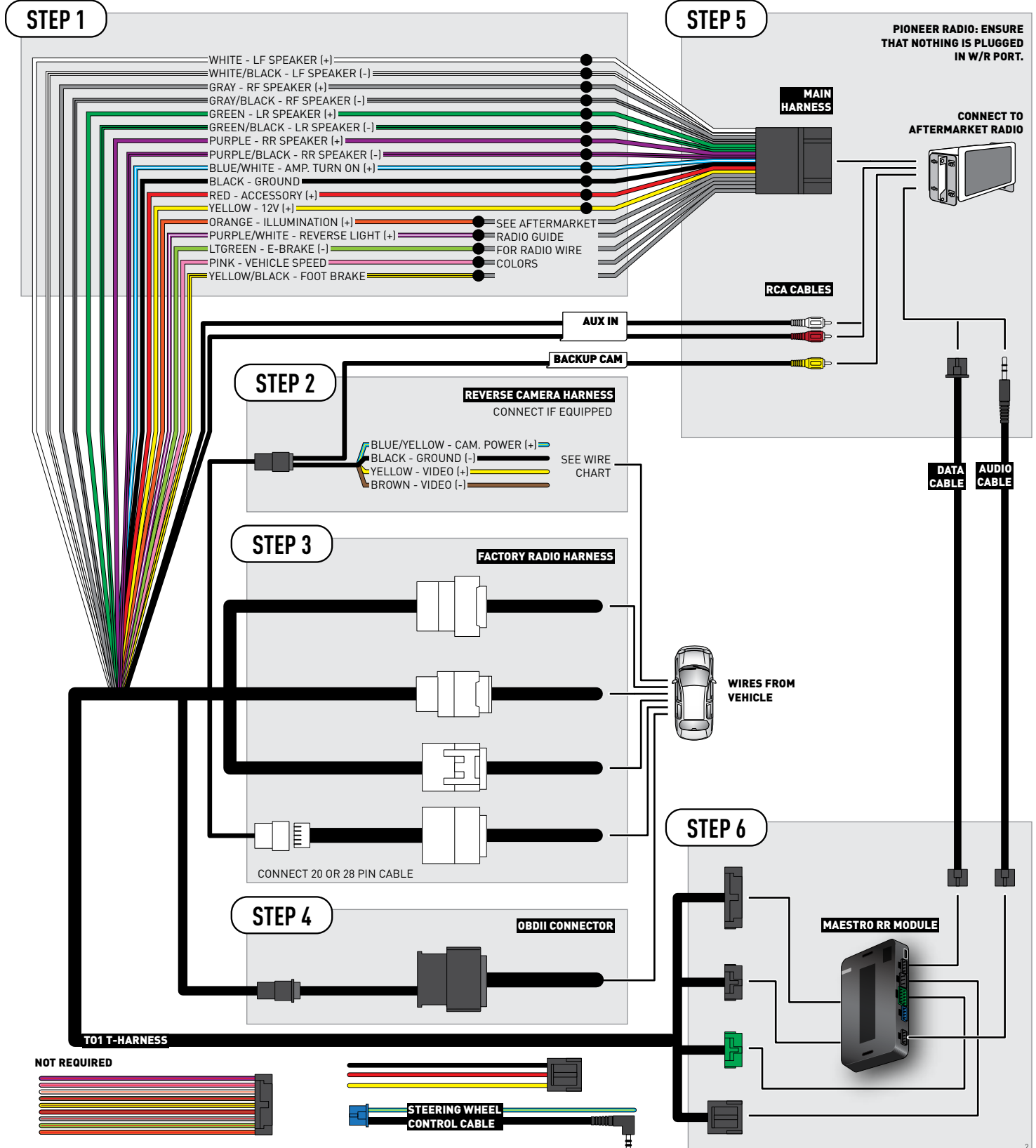
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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*





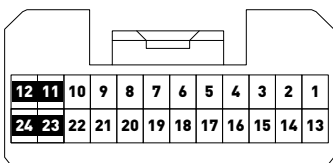
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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
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Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# 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 OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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.	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).
<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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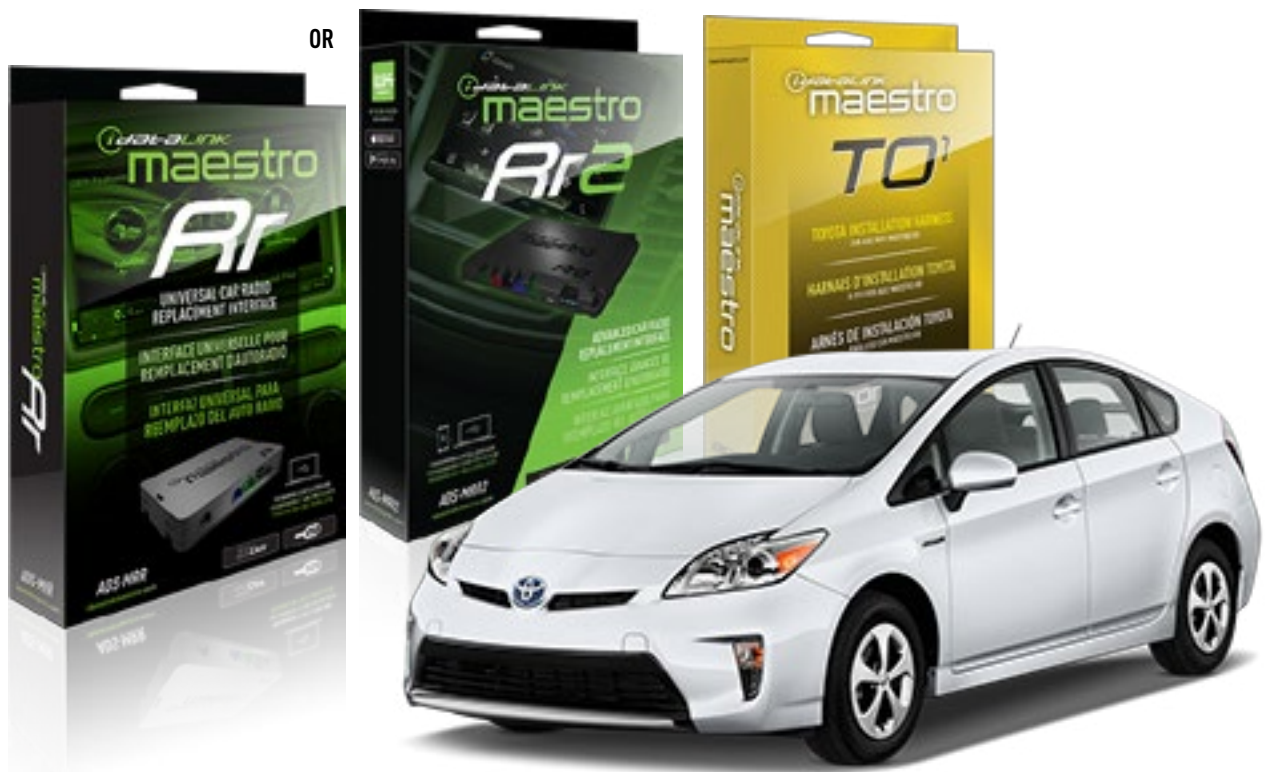
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- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

## STEP 4

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

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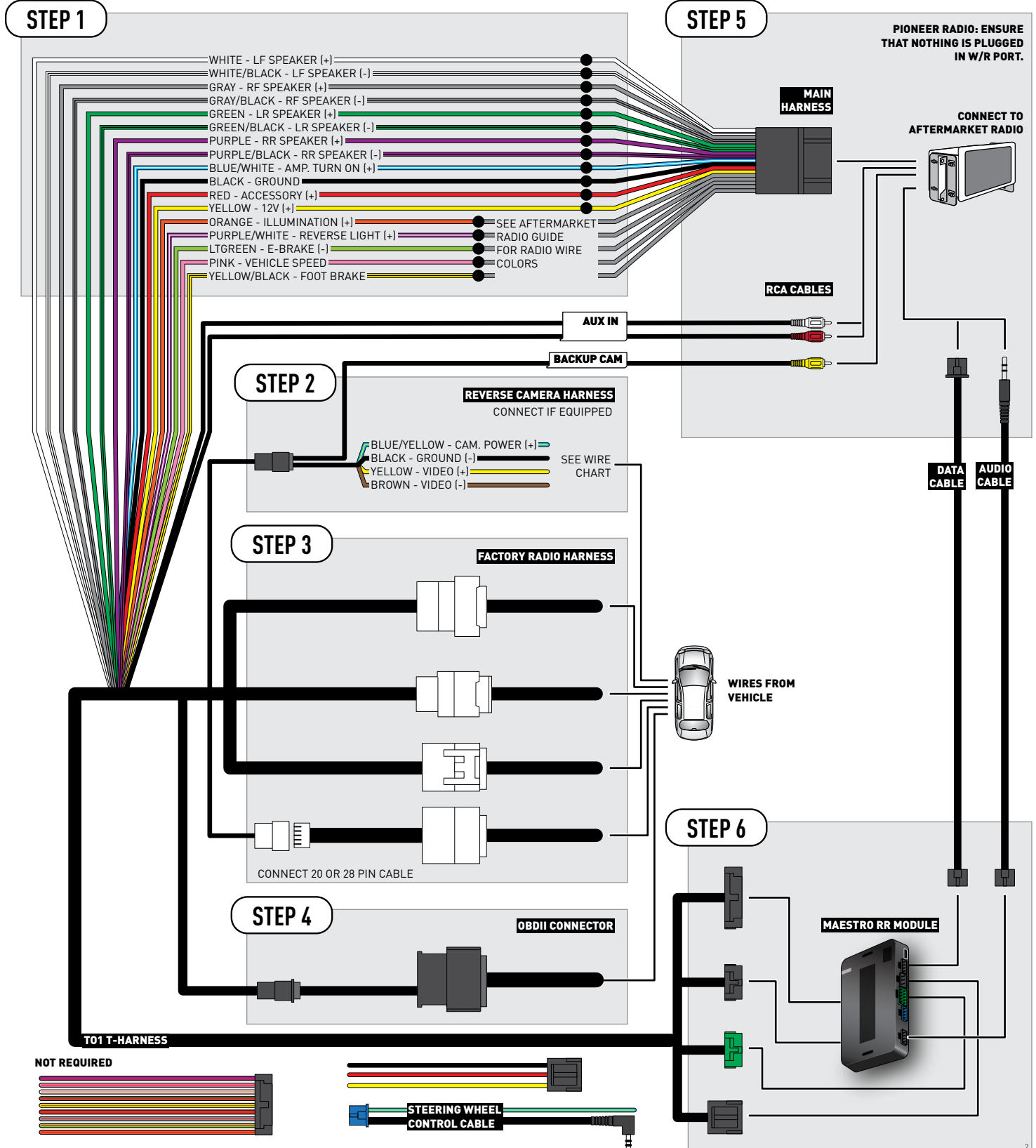
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

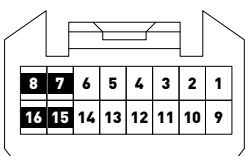
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# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	White	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
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# TROUBLESHOOTING TABLE

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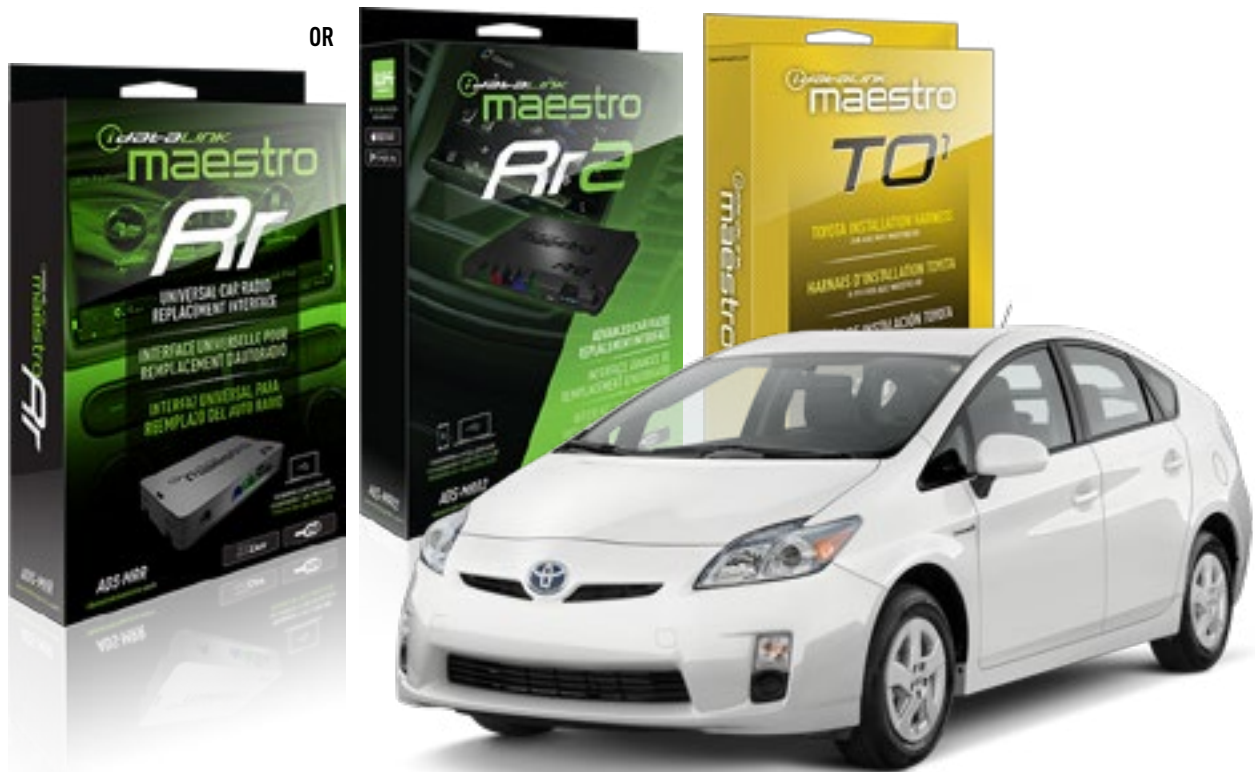
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**Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.**

# NEED HELP?

 1 866 427-2999

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

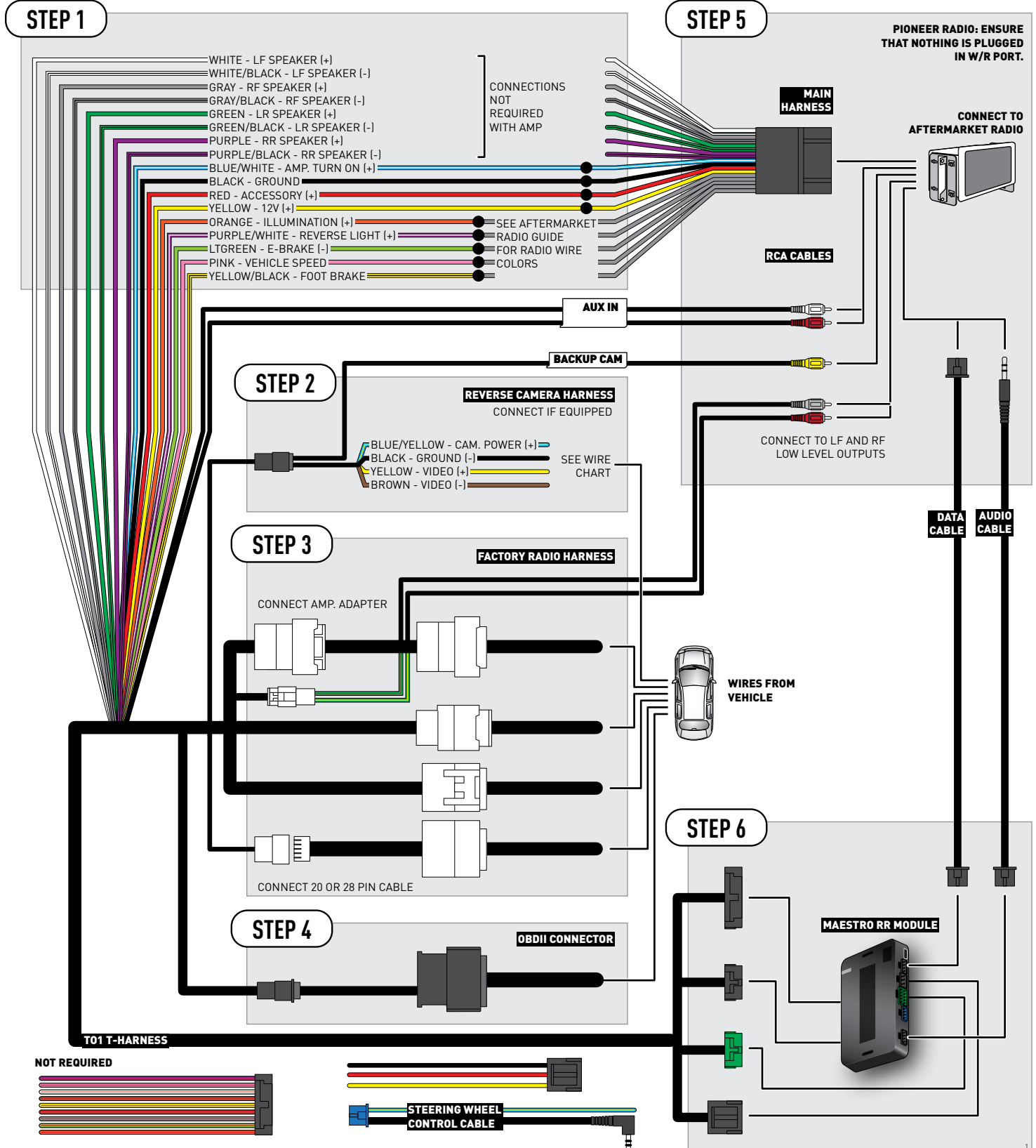
- Plug the aftermarket radio harnesses into the aftermarket radio.
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

# WIRING DIAGRAM *with an Amplifier*



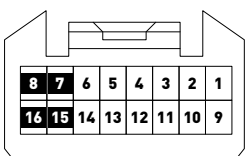
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	White	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)





# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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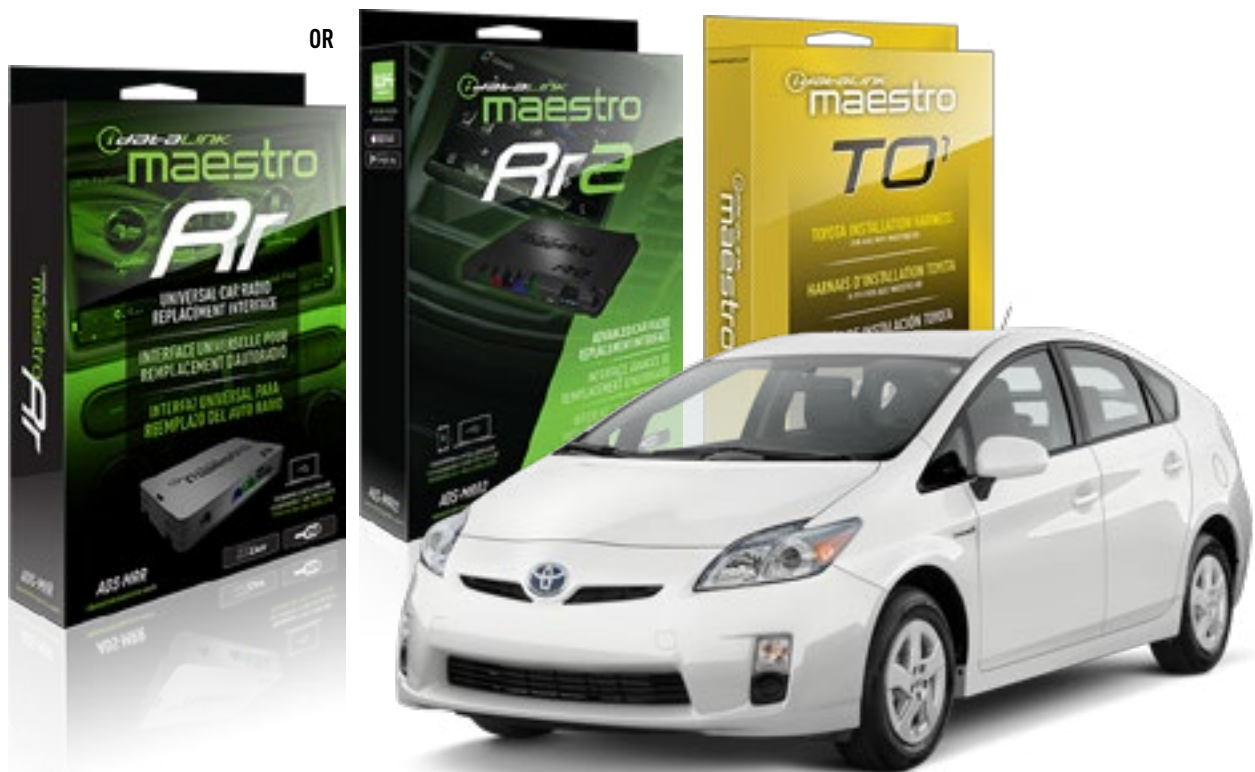
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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

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

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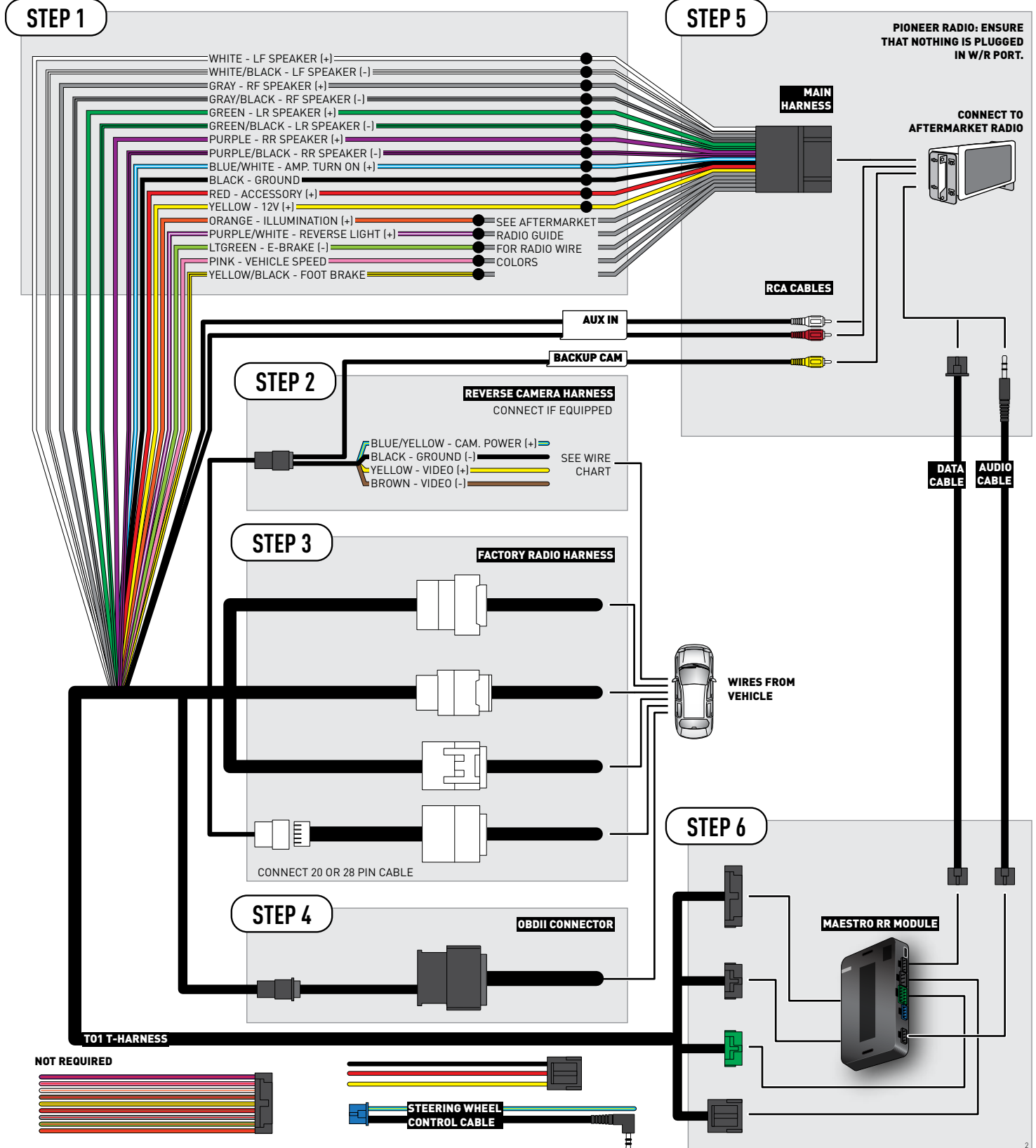
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## STEP 6

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# WIRING DIAGRAM *without an Amplifier*



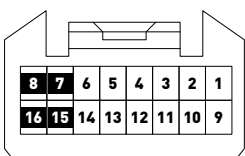
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<b>(Prius only)</b> After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	<p>Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness.</p> <p>Then, cut and isolate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

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**K40**<sup>™</sup>  
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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

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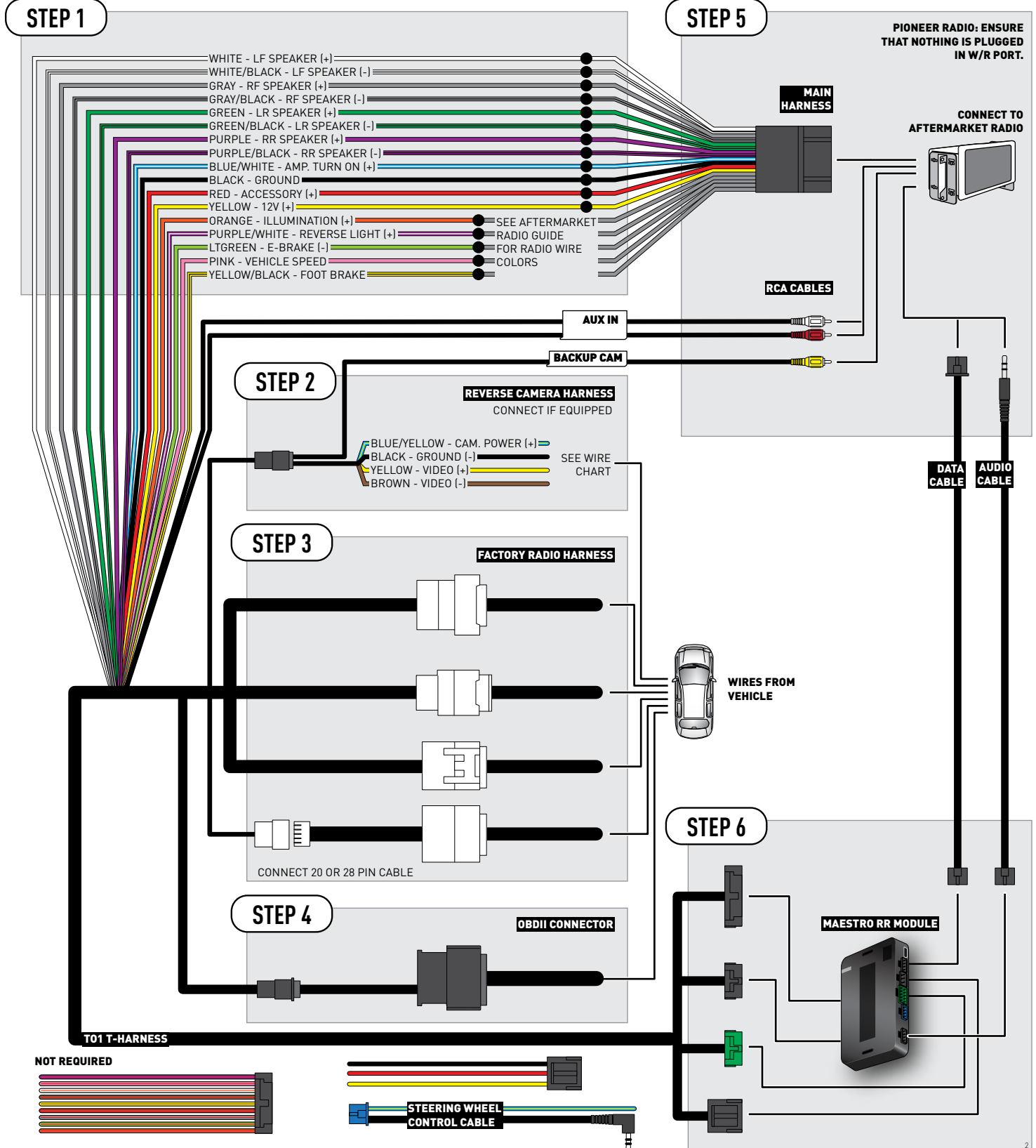
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## STEP 6

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# WIRING DIAGRAM *without an Amplifier*



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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

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2006-2011  
TOYOTA RAV 4  
WITH JBL

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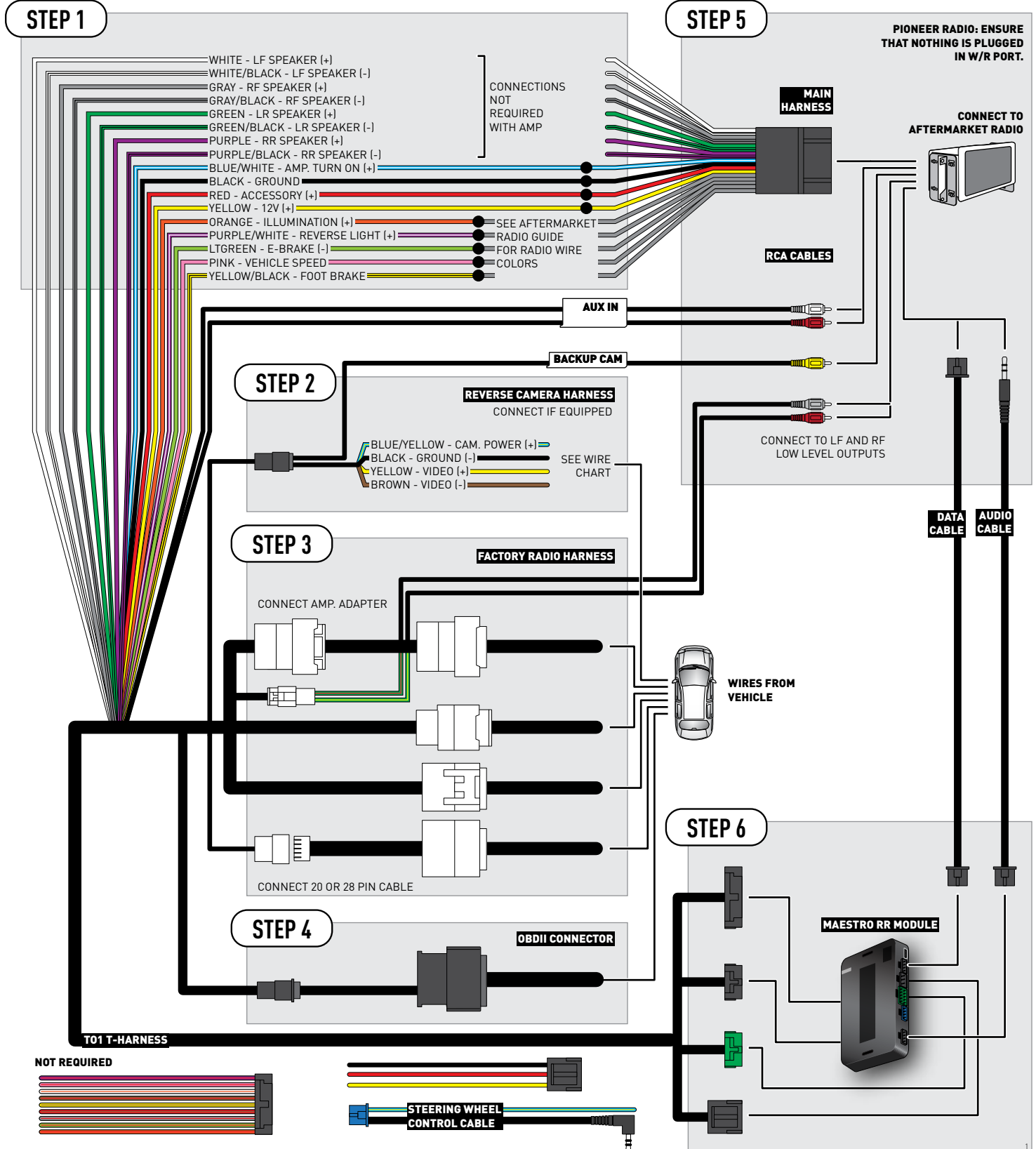
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iDatalink Maestro TO1 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES

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

Click here for:  
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# WELCOME

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

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

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

# NEED HELP?

 1 866 427-2999

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

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Vehicle Wire Reference Chart	6
Troubleshooting Table	7



# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

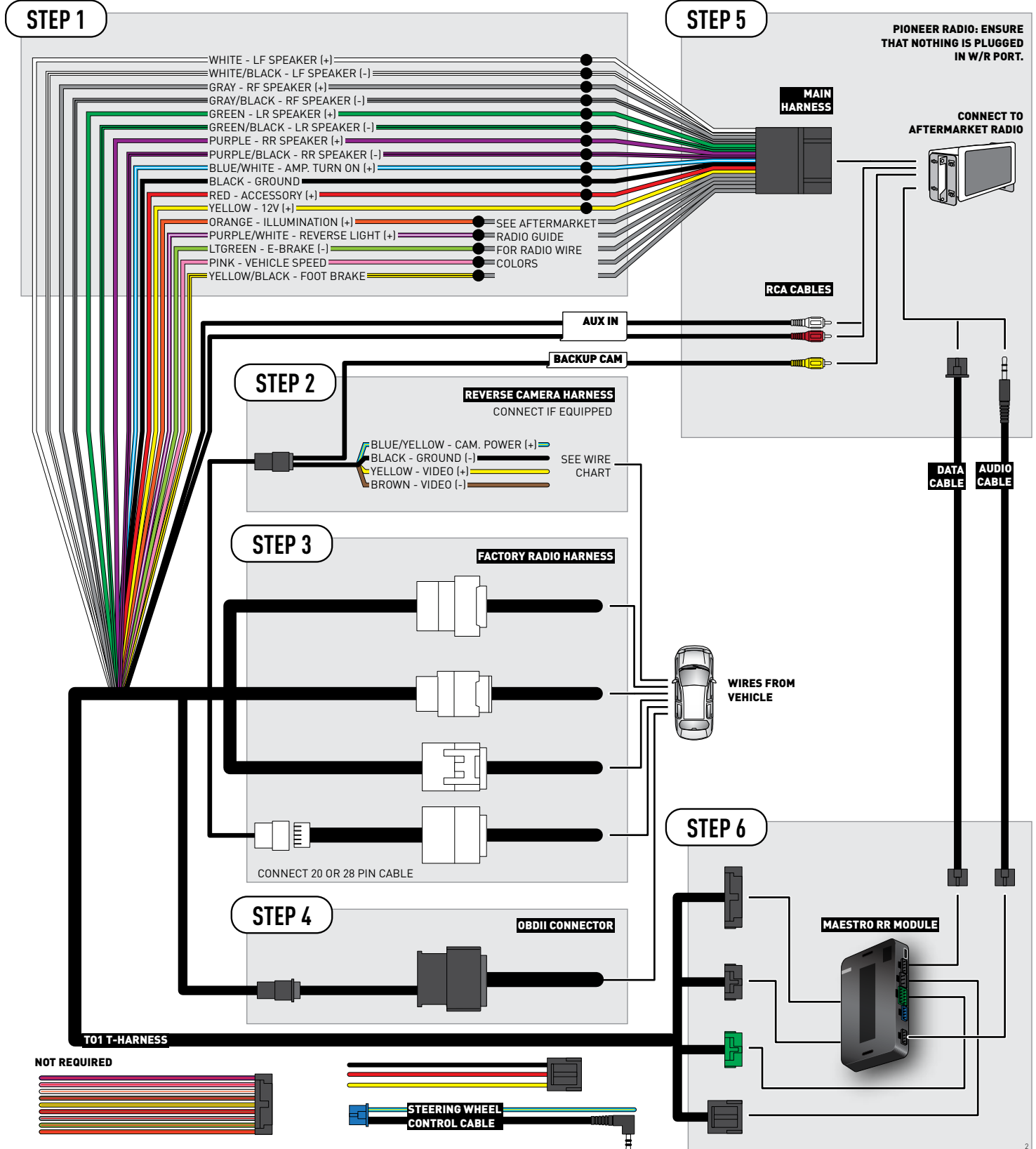
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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**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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- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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).

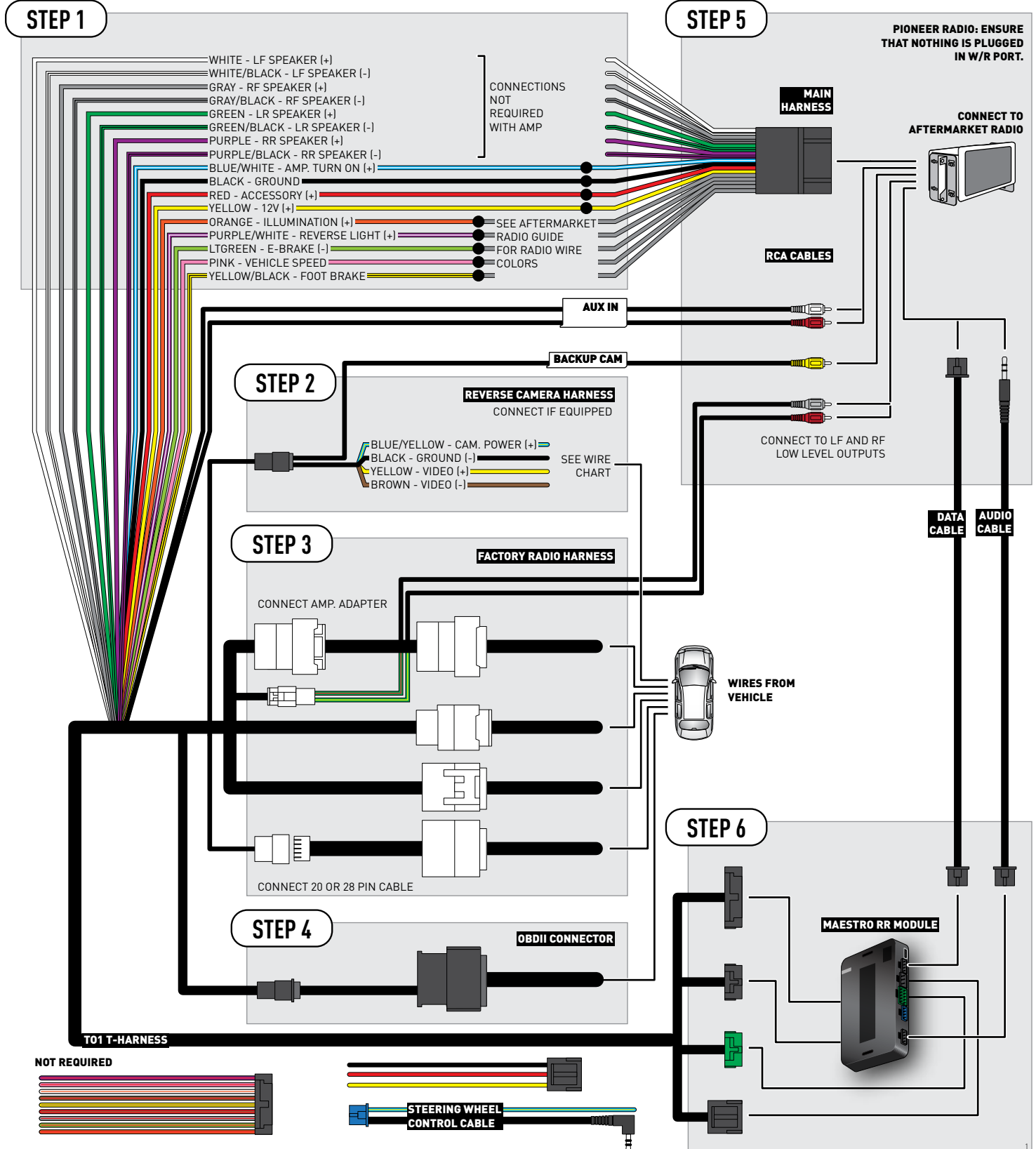
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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



# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

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

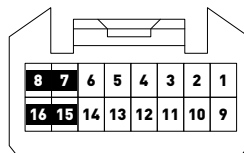
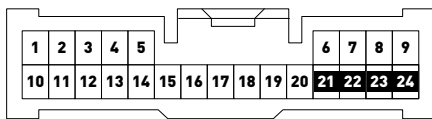
# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	White	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Shield	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

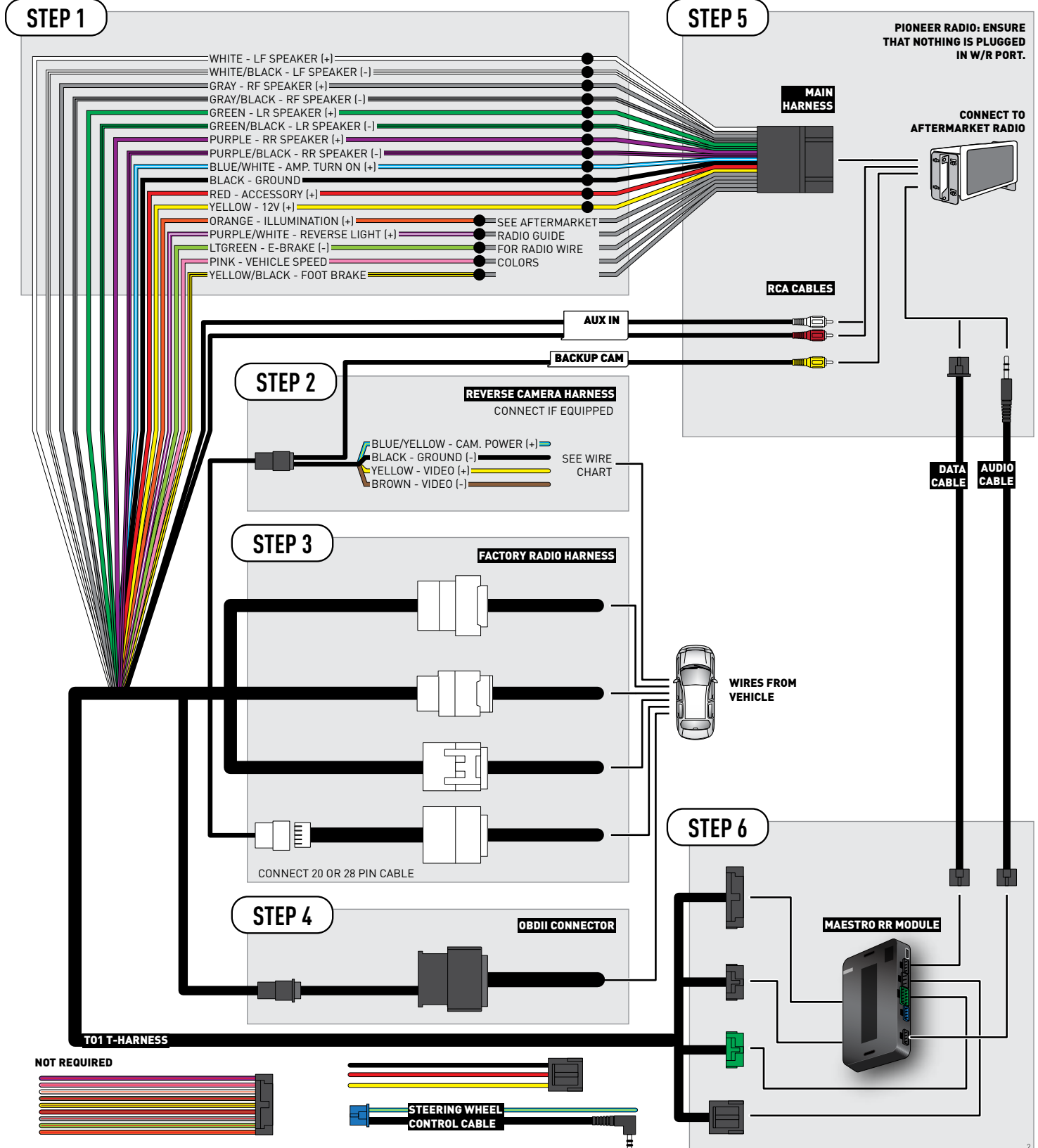
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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*





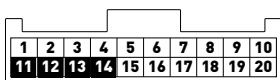
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Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light	(+)	Purple/White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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	20 pin	13	Black	(+)	Reverse camera harness
Ground	~	~	20 pin	14	White	(-)	Reverse camera harness
Video +	~	~	20 pin	11	Red	(+)	Reverse camera harness
Video -	~	~	20 pin	12	Shield	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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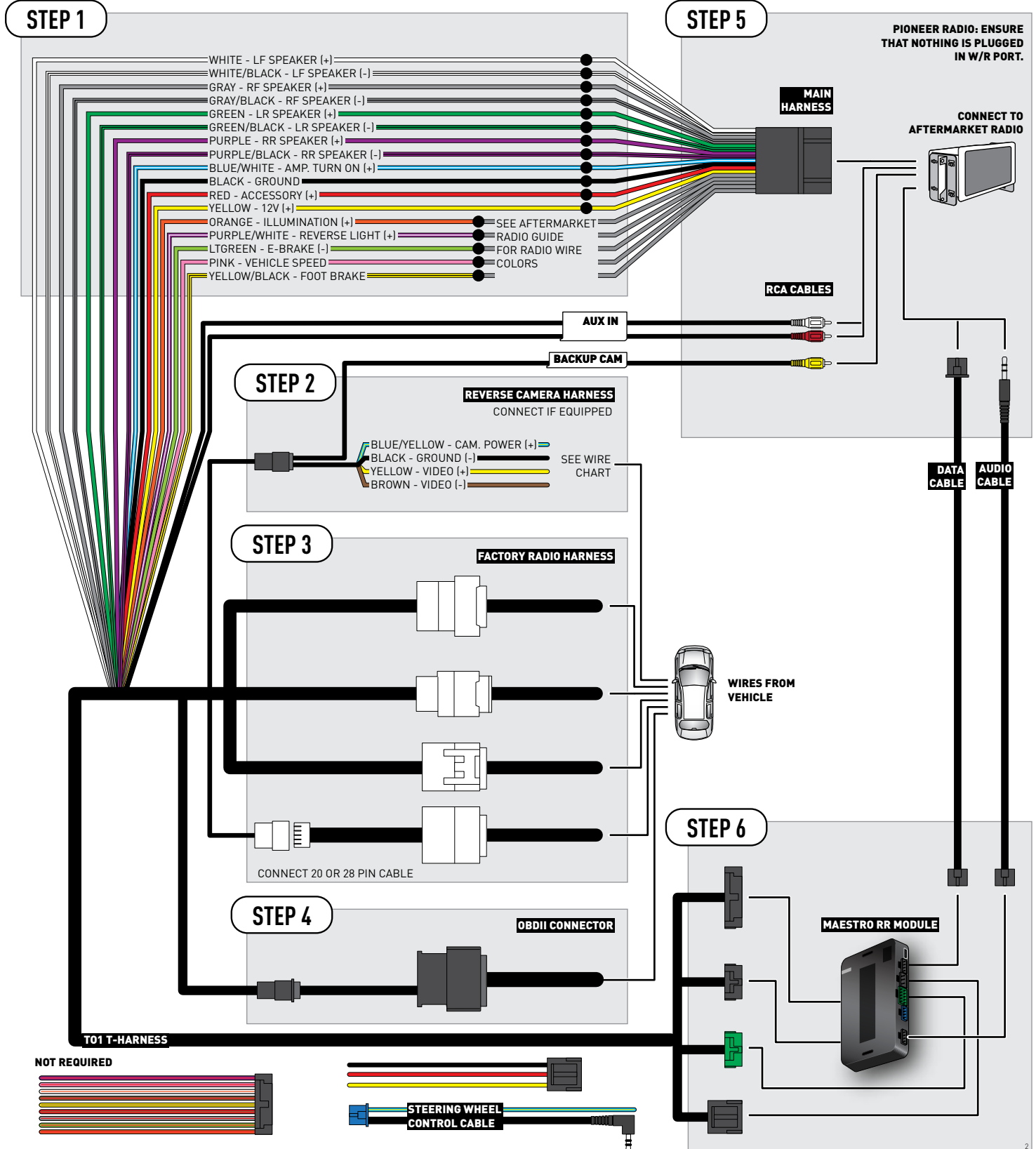
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# RADIO WIRE REFERENCE CHART

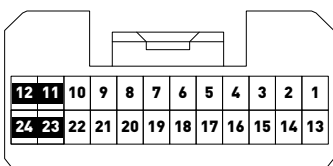
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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A



# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	White	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	Shield	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

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

## MAESTRO RR RESET PROCEDURE:

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

## TECHNICAL ASSISTANCE

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

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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#### PROGRAMMED FIRMWARE

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# NEED HELP?

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

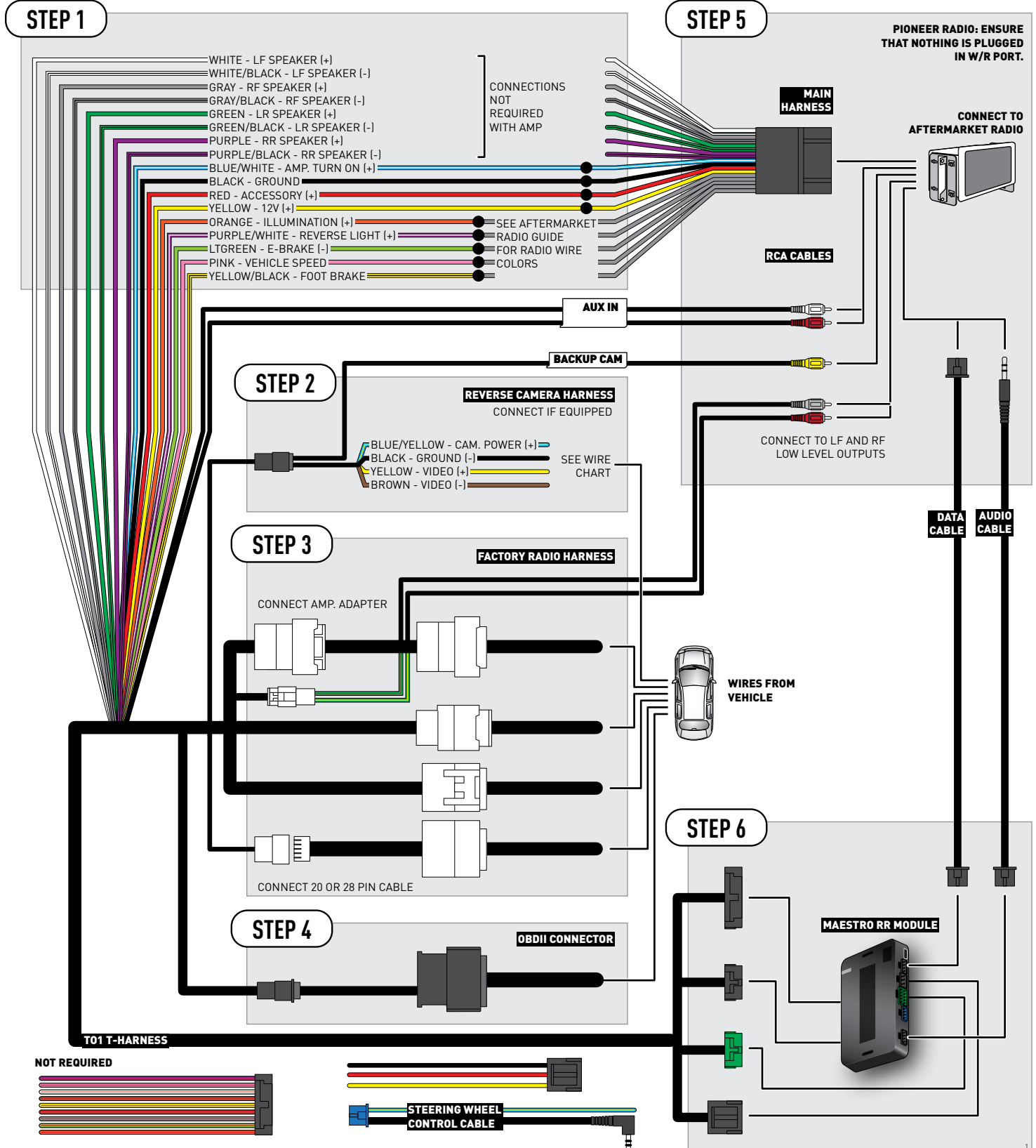
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
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- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Plug 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*



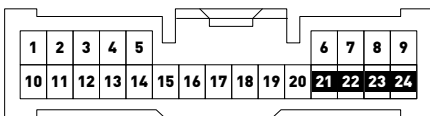
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)





# TROUBLESHOOTING TABLE

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



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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

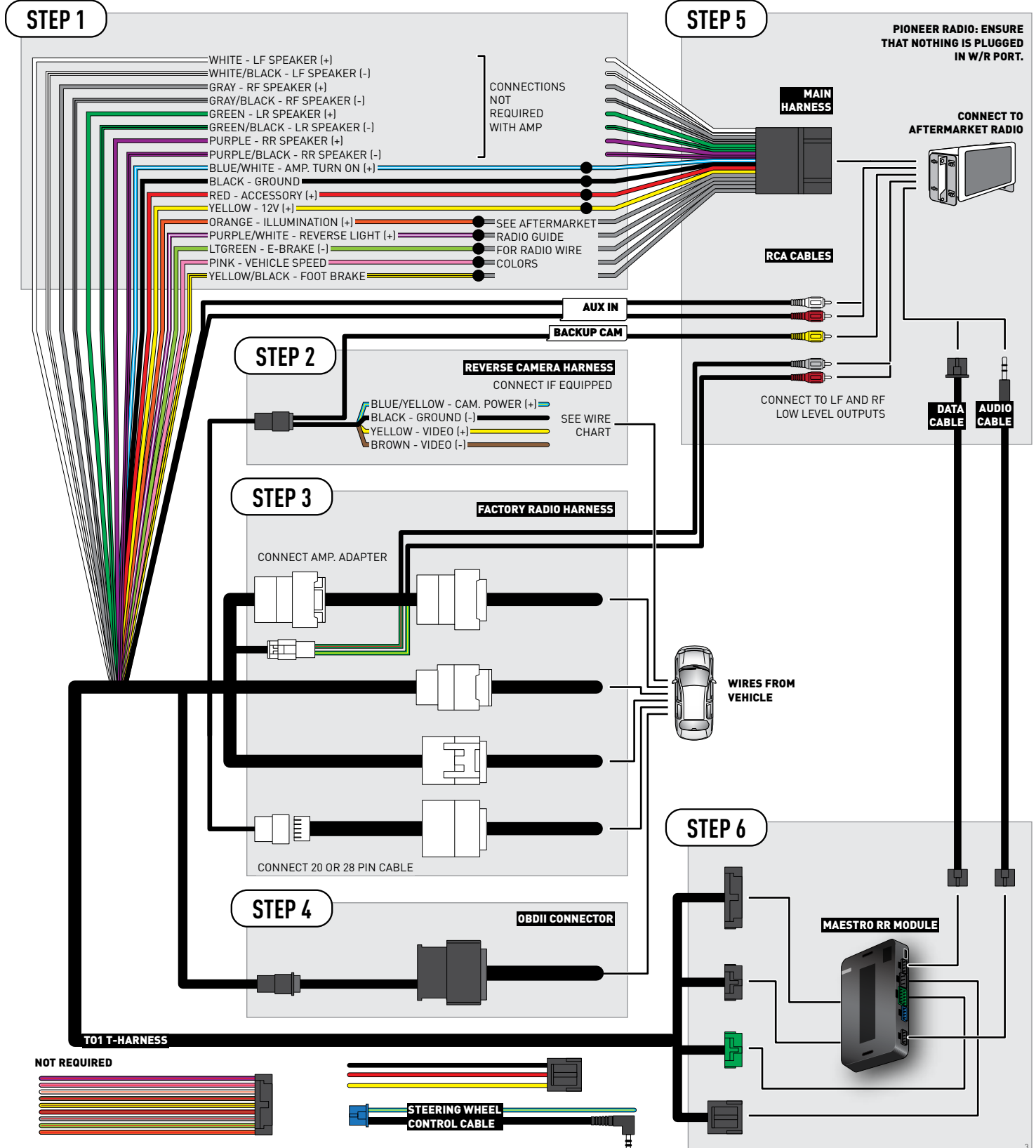
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- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket 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*



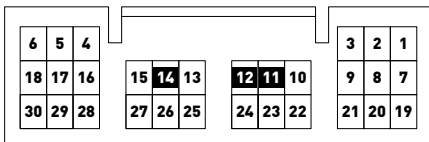
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	30 pin	14	Red	(+)	Parking assist ECU, behind glovebox
Ground	~	~	~	~	~	~	~
Video +	~	~	30 pin	12	Black	(+)	Parking assist ECU, behind glovebox
Video -	~	~	30 pin	11	White	(-)	Parking assist ECU, behind glovebox

## PARKING ASSIST CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

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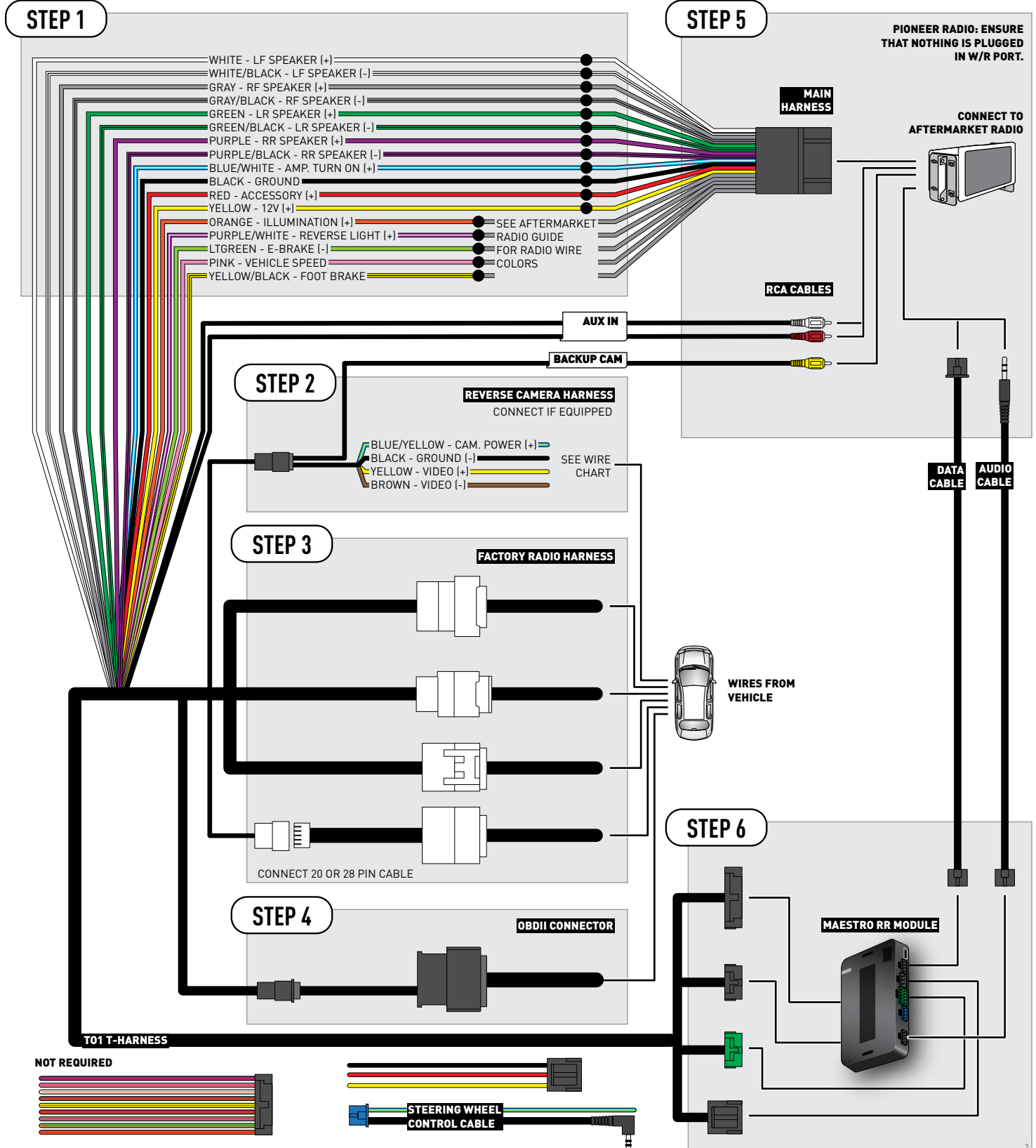
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
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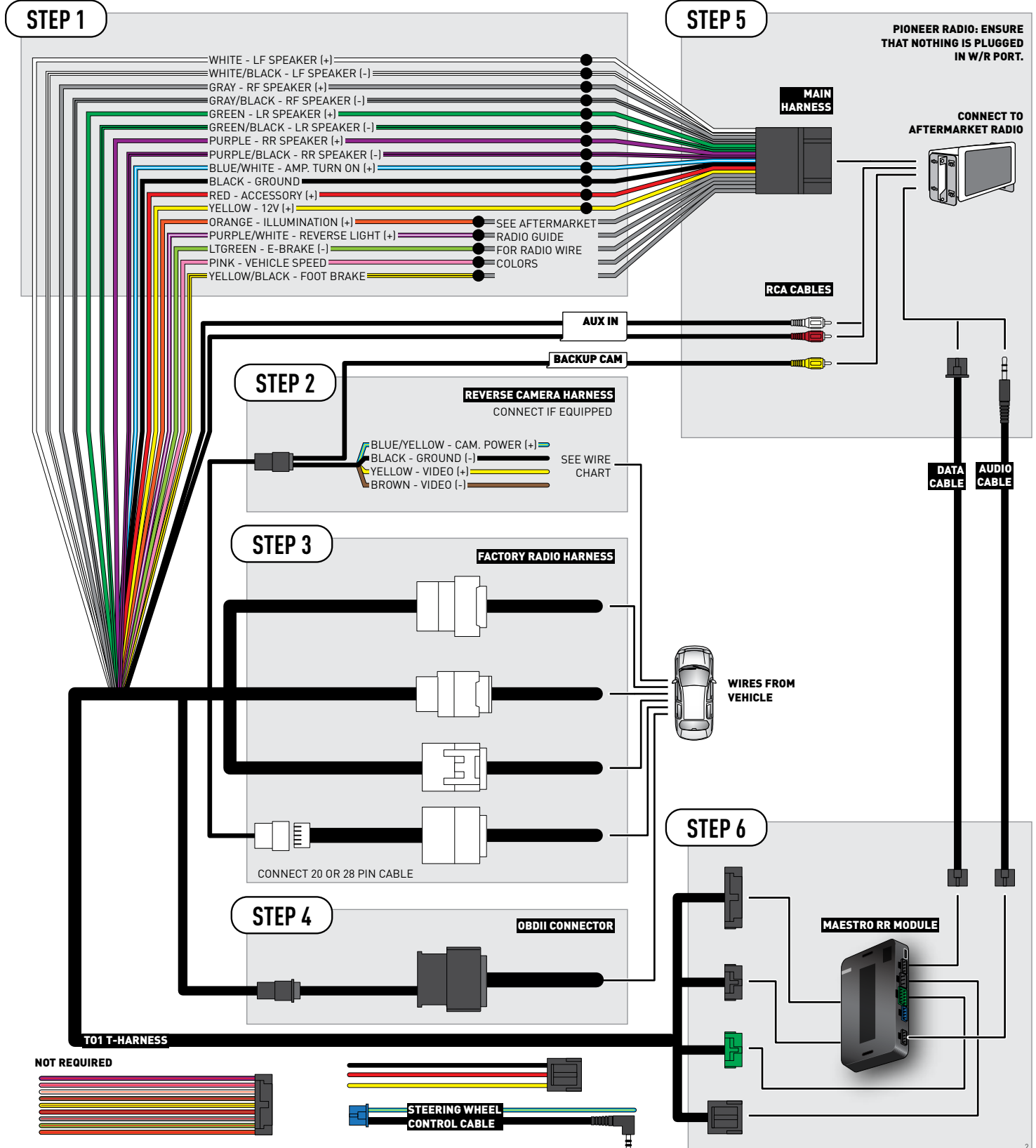
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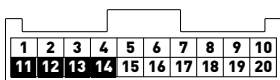
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## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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)

Web: [maestro.idatalink.com/support](http://maestro.idatalink.com/support) add [www.12voltdata.com/forum/](http://www.12voltdata.com/forum/)

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

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



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro TO1 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-D5

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES



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# WELCOME

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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.**

# NEED HELP?

 1 866 427-2999

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Troubleshooting Table	7



# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

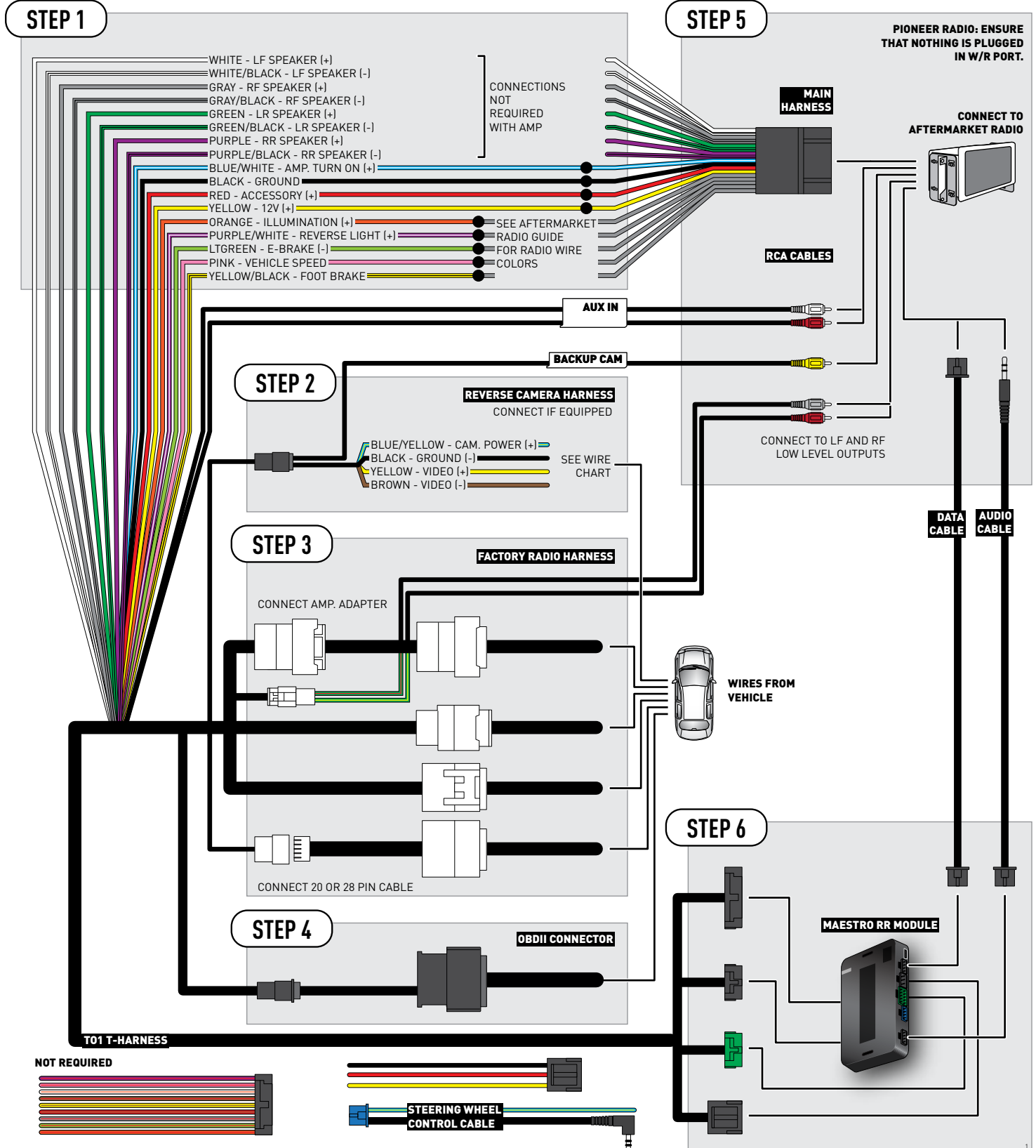
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

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

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables 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).

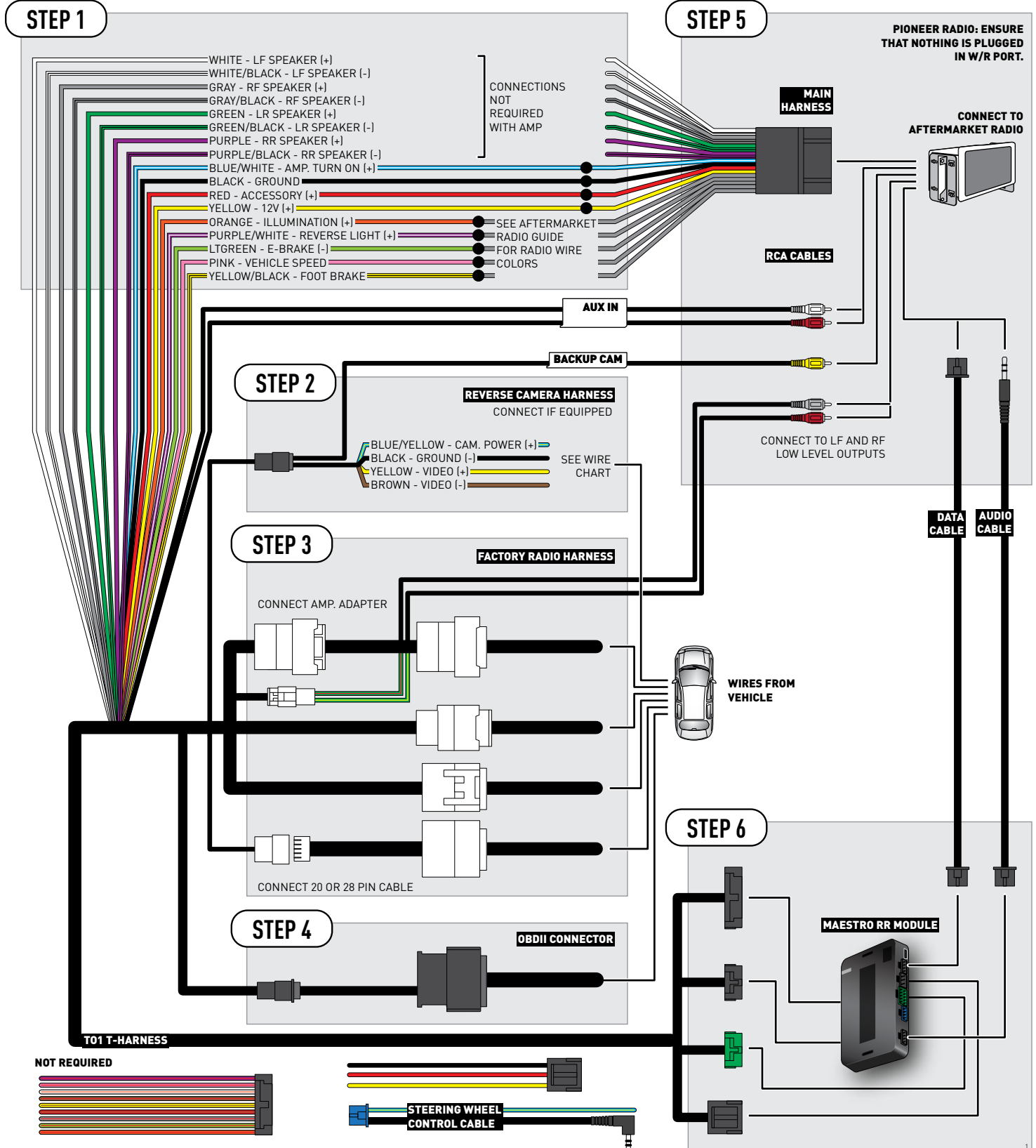
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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



# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

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

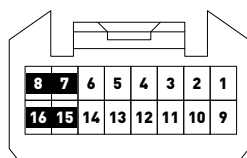
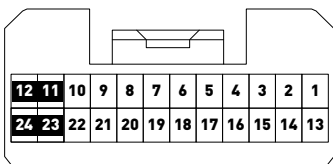
# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
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The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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**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 TO1 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES

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

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut RCA wires from amp. adapter and connect them to matching wires of T01 t-harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

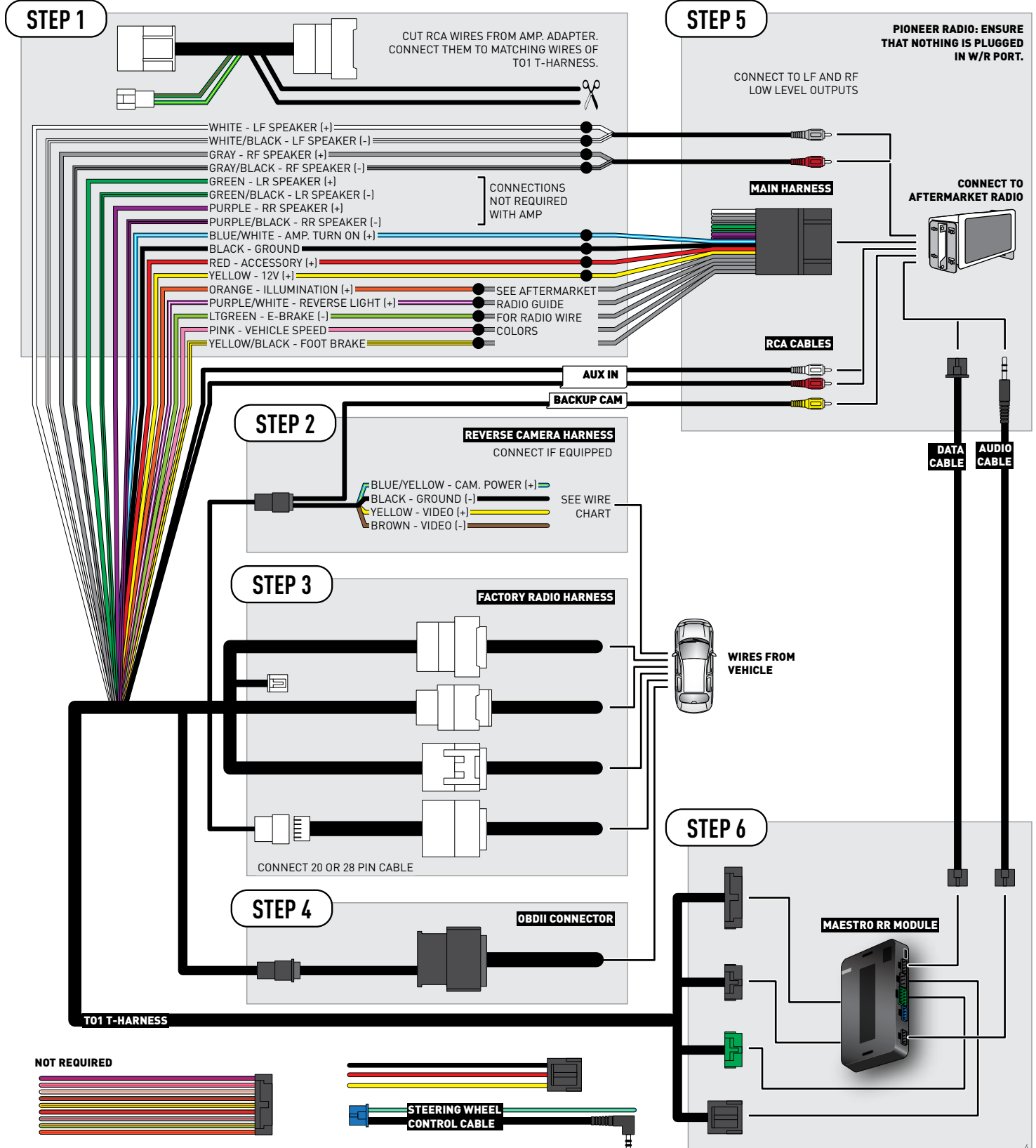
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

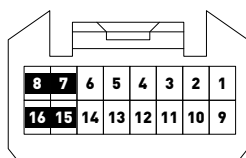
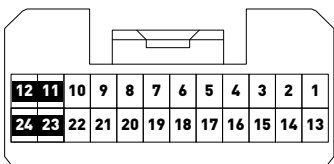
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Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

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Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	White	(-)	Reverse camera harness

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# TROUBLESHOOTING TABLE

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

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

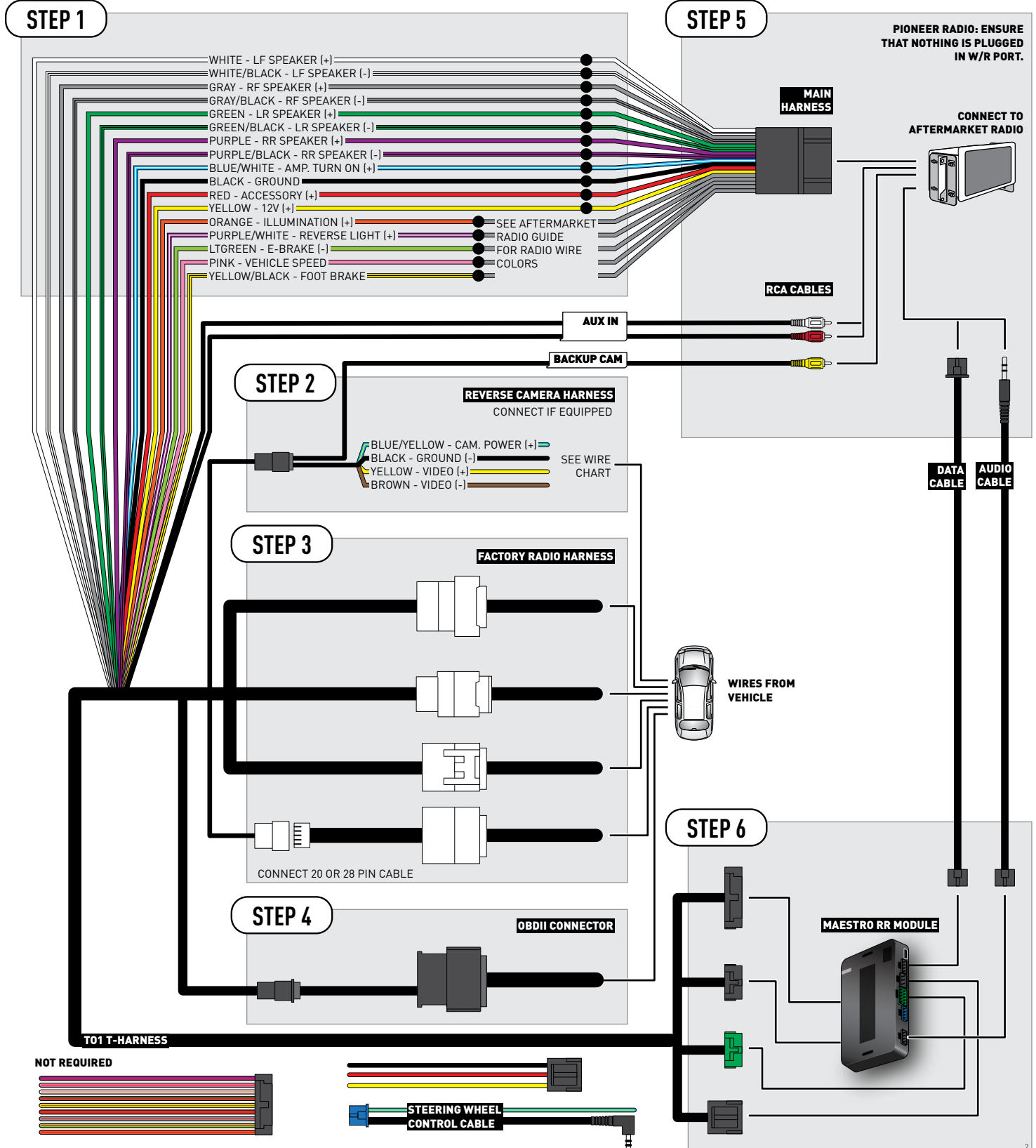
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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

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



# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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**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

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

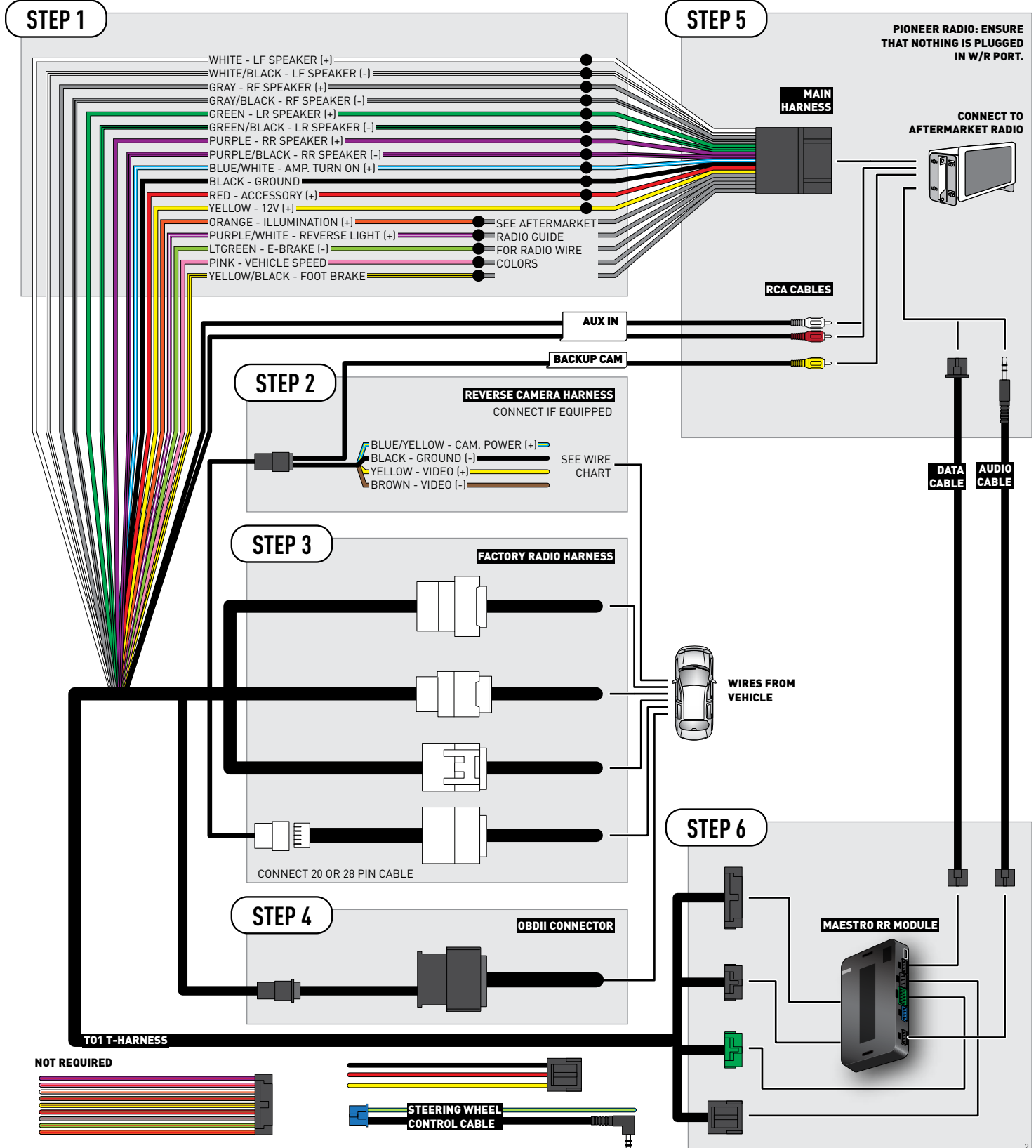
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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# WIRING DIAGRAM *without an Amplifier*



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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

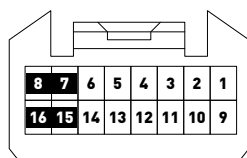
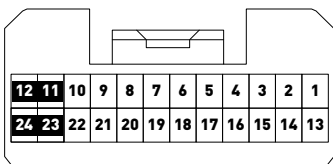
# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	White	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTORS (WIRE SIDE)





# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

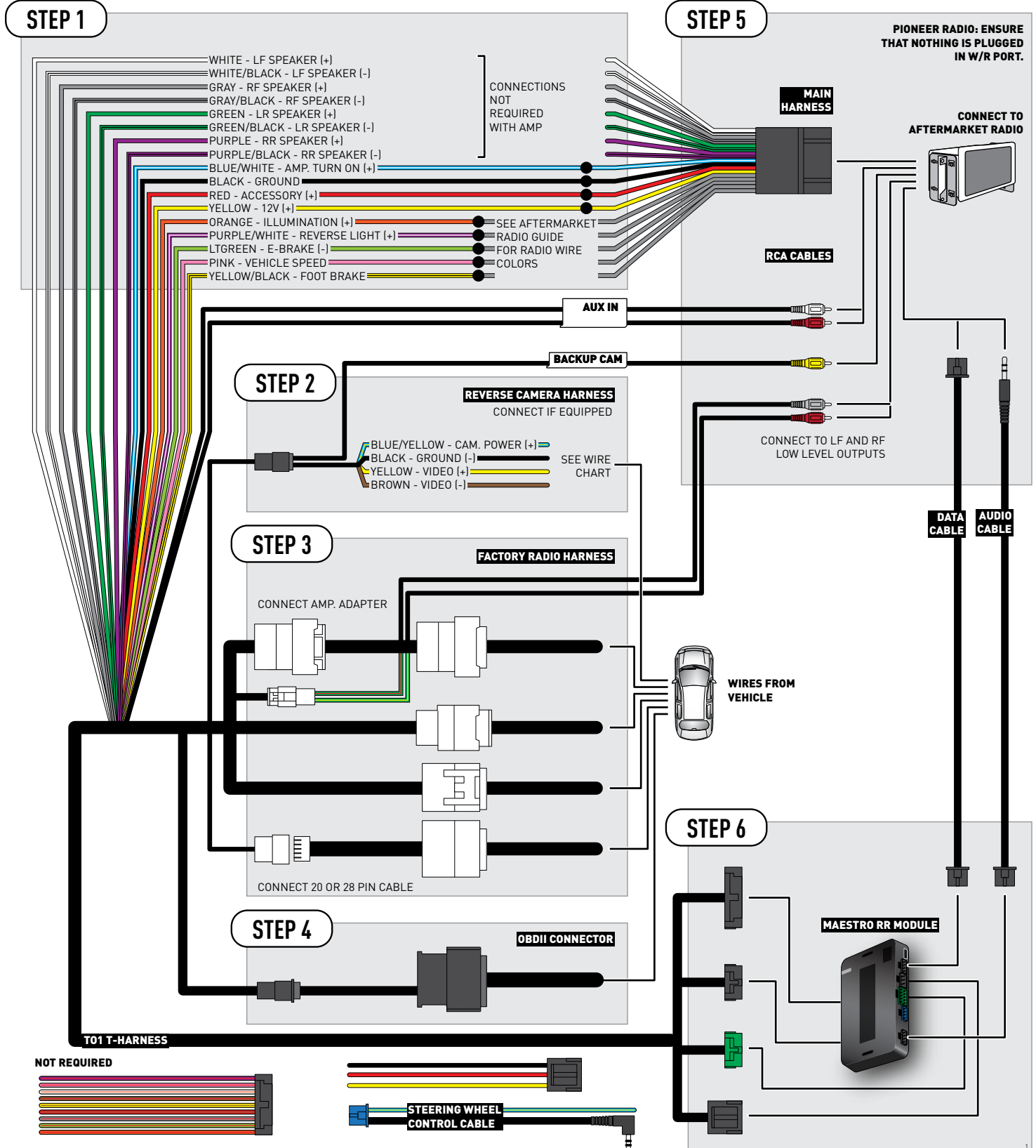
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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*



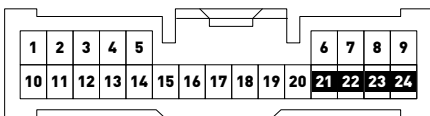
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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink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

# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

## REVERSE CAMERA CONNECTOR (WIRE SIDE)



# 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 OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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.	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).
<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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- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

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

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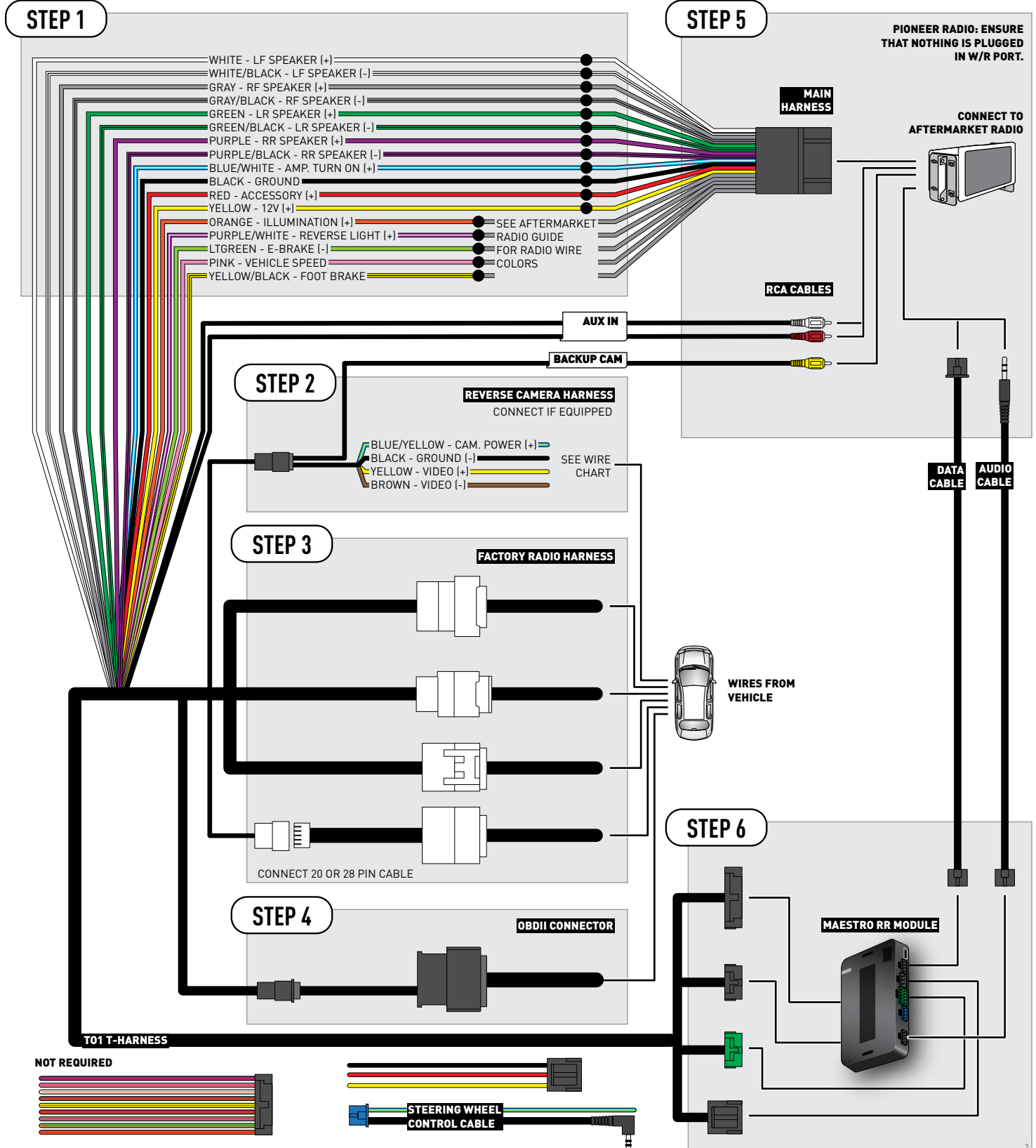
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# WIRING DIAGRAM *without an Amplifier*



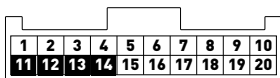
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 [maestro.support@idatalink.com](mailto:maestro.support@idatalink.com)

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

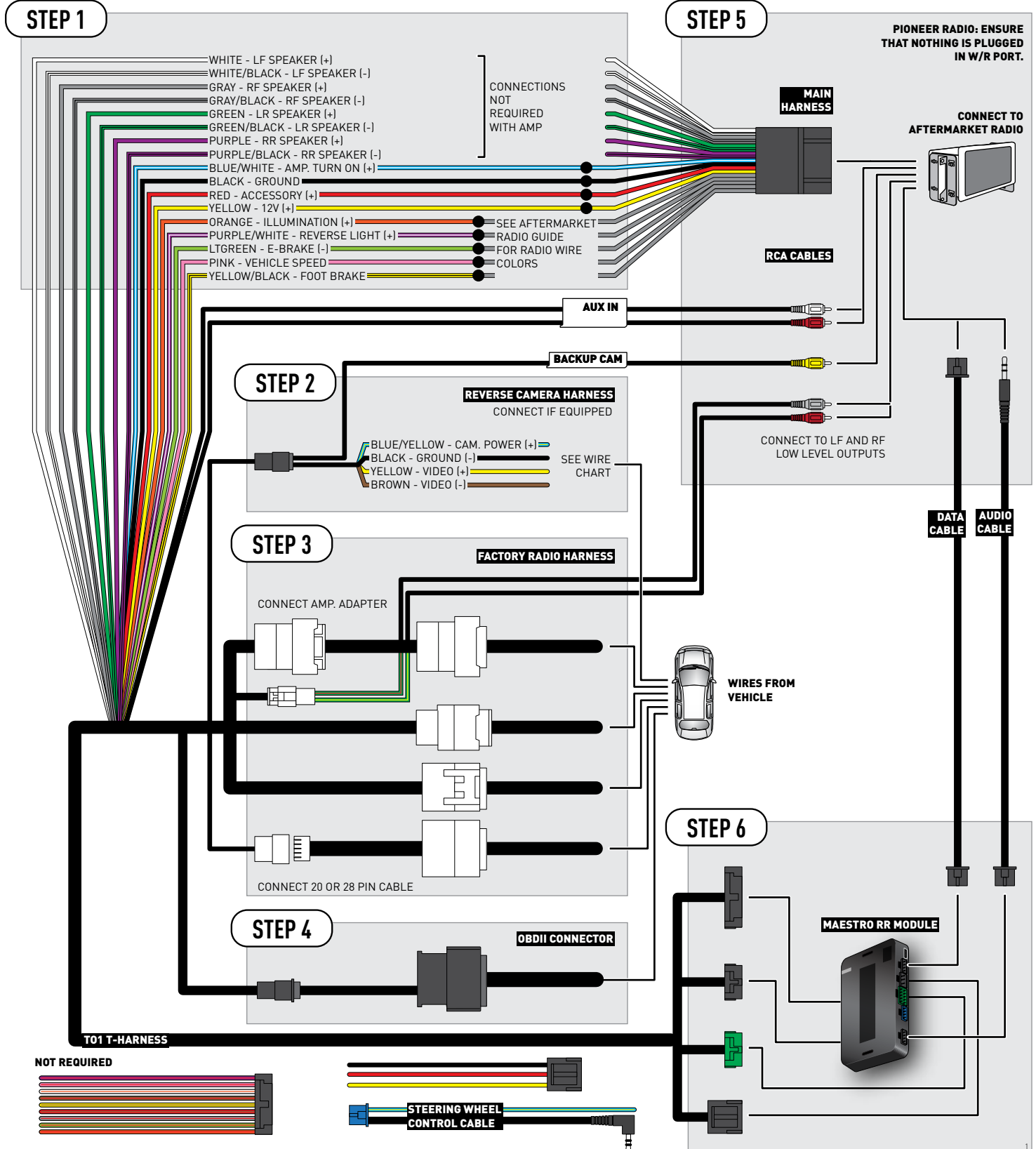
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the 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

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

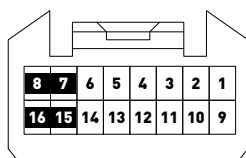
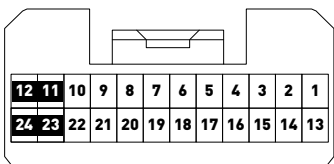
# VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

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Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
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## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

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

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY01-DS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES



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- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

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- 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 T01 T-harness.

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

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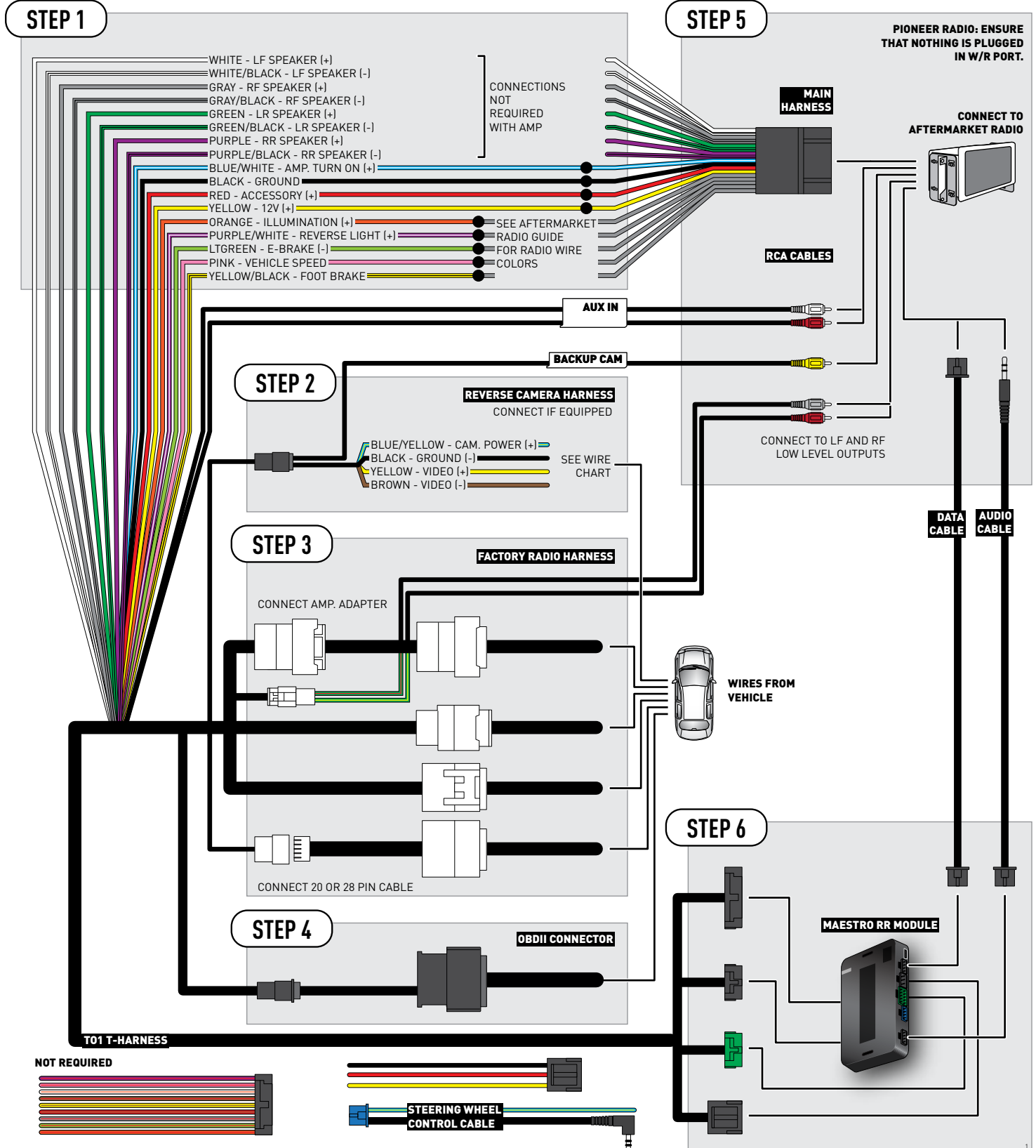
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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

# WIRING DIAGRAM *with an Amplifier*



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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

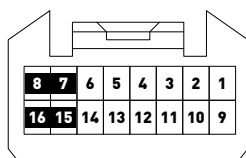
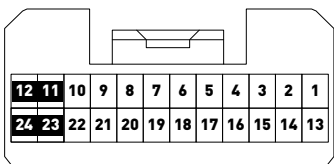
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OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
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## REVERSE CAMERA CONNECTORS (WIRE SIDE)



# 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 OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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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There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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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- 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 T01 T-harness.

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

## STEP 5

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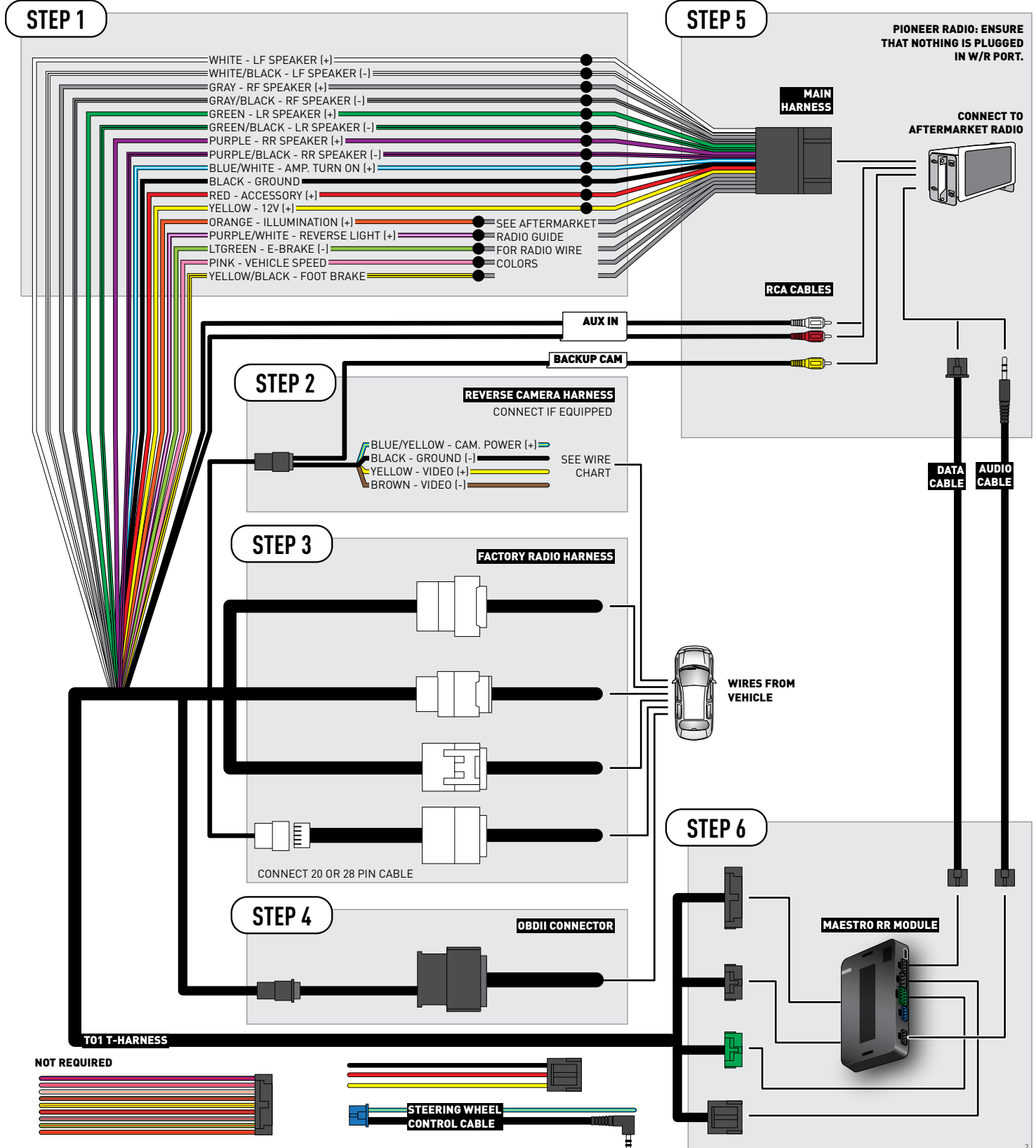
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# WIRING DIAGRAM *without an Amplifier*



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Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood cable	Wire Color on Pioneer cable	Wire Color on Sony cable
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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>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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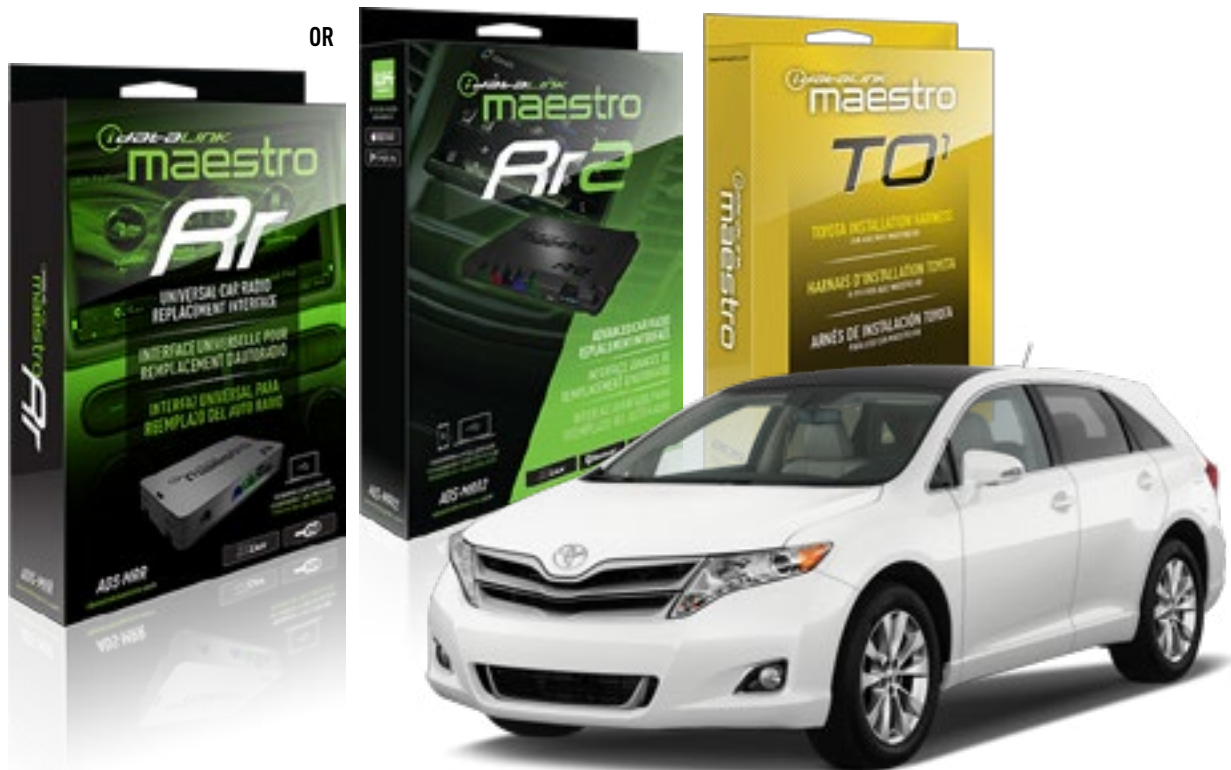
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2013-2014  
TOYOTA VENZA  
WITHOUT JBL

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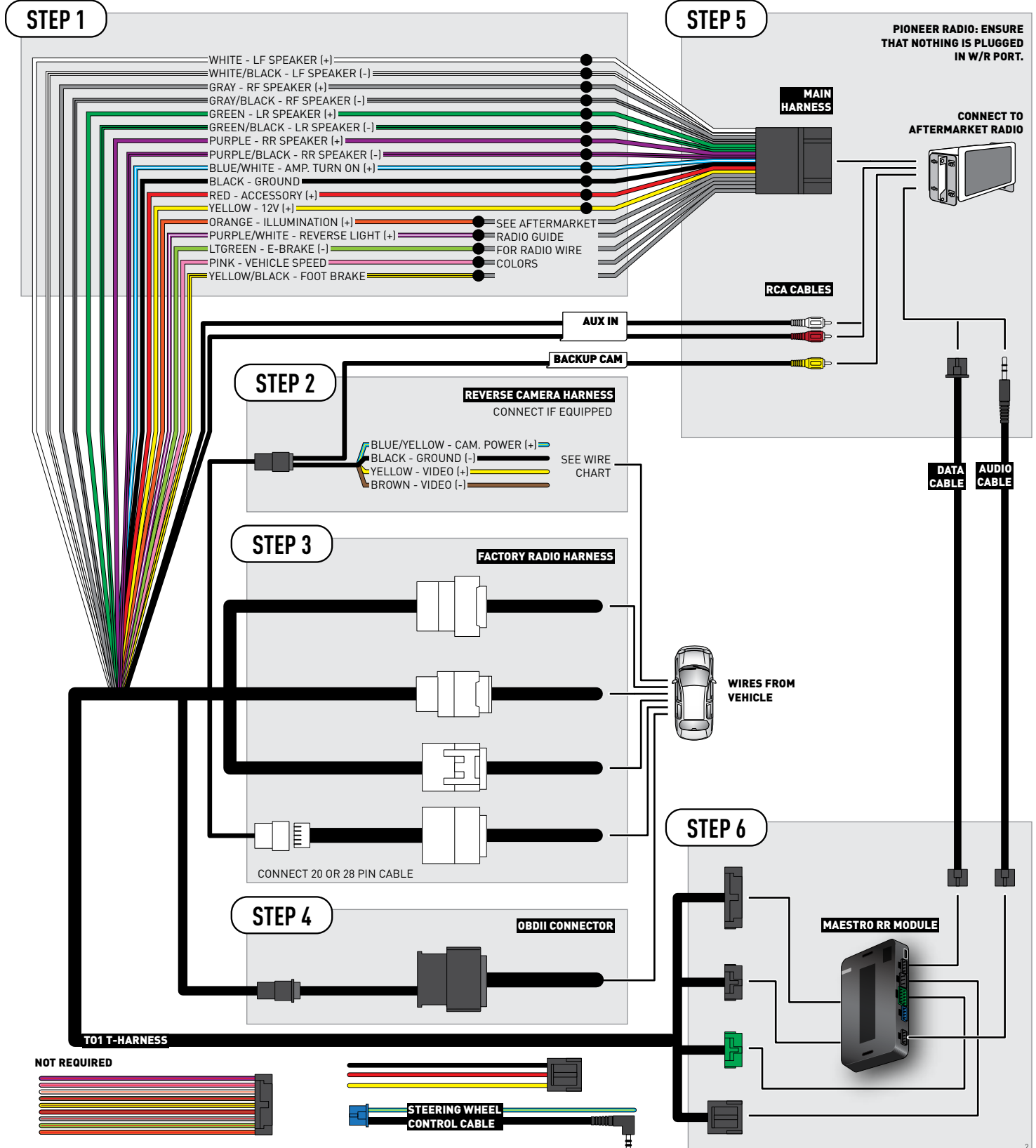
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# WIRING DIAGRAM *without an Amplifier*





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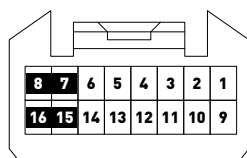
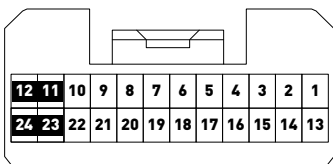
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the <b>RED/BROWN</b> wire is on <b>PIN 6</b> and the <b>YELLOW/BROWN</b> wire is connected to <b>PIN 14</b> of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking <b>RED TWICE</b> .	<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 flashing <b>RED</b> once.	There is no firmware on the module; flash the RR module.
There is no sound from OEM sources like OEM satellite radio.	Ensure the all black, 3-pin to 3.5mm audio cable is connected between the RR and the radio. Make sure it is in the correct radio input.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	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).
<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)

Web: [maestro.idatalink.com/support](http://maestro.idatalink.com/support) add [www.12voltdata.com/forum/](http://www.12voltdata.com/forum/)

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

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro TO1 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](#)

# 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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Radio Wire Reference Chart	5
Vehicle Wire Reference Chart	6
Troubleshooting Table	7

# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wire chart for details).

## 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 T01 T-harness.

## STEP 4

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

## STEP 5

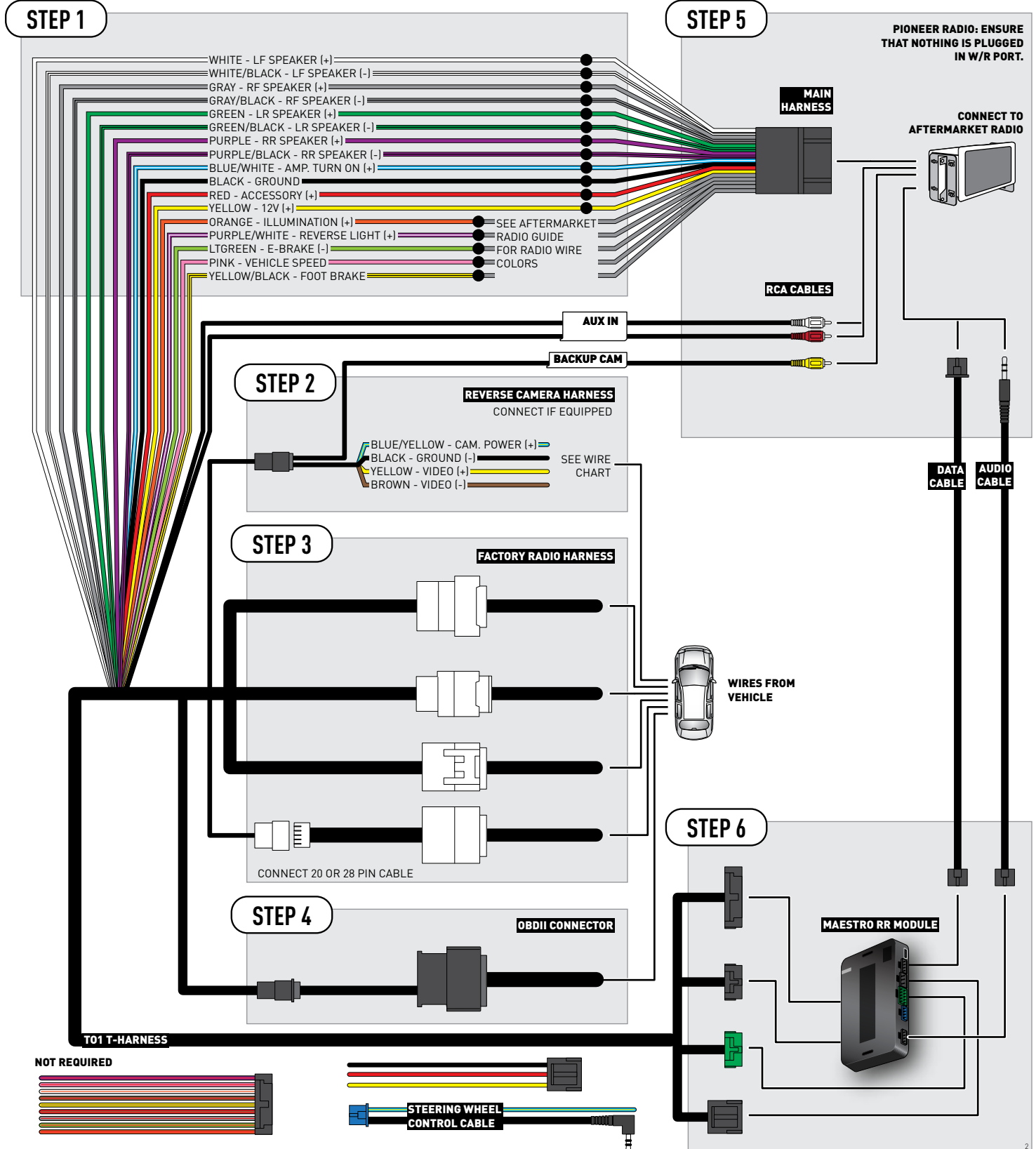
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the auxiliary RCA cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
- Insert the 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

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



# VEHICLE WIRE REFERENCE CHART

REVERSE CAMERA NOT AVAILABLE / NOT PRESENT

# TROUBLESHOOTING TABLE

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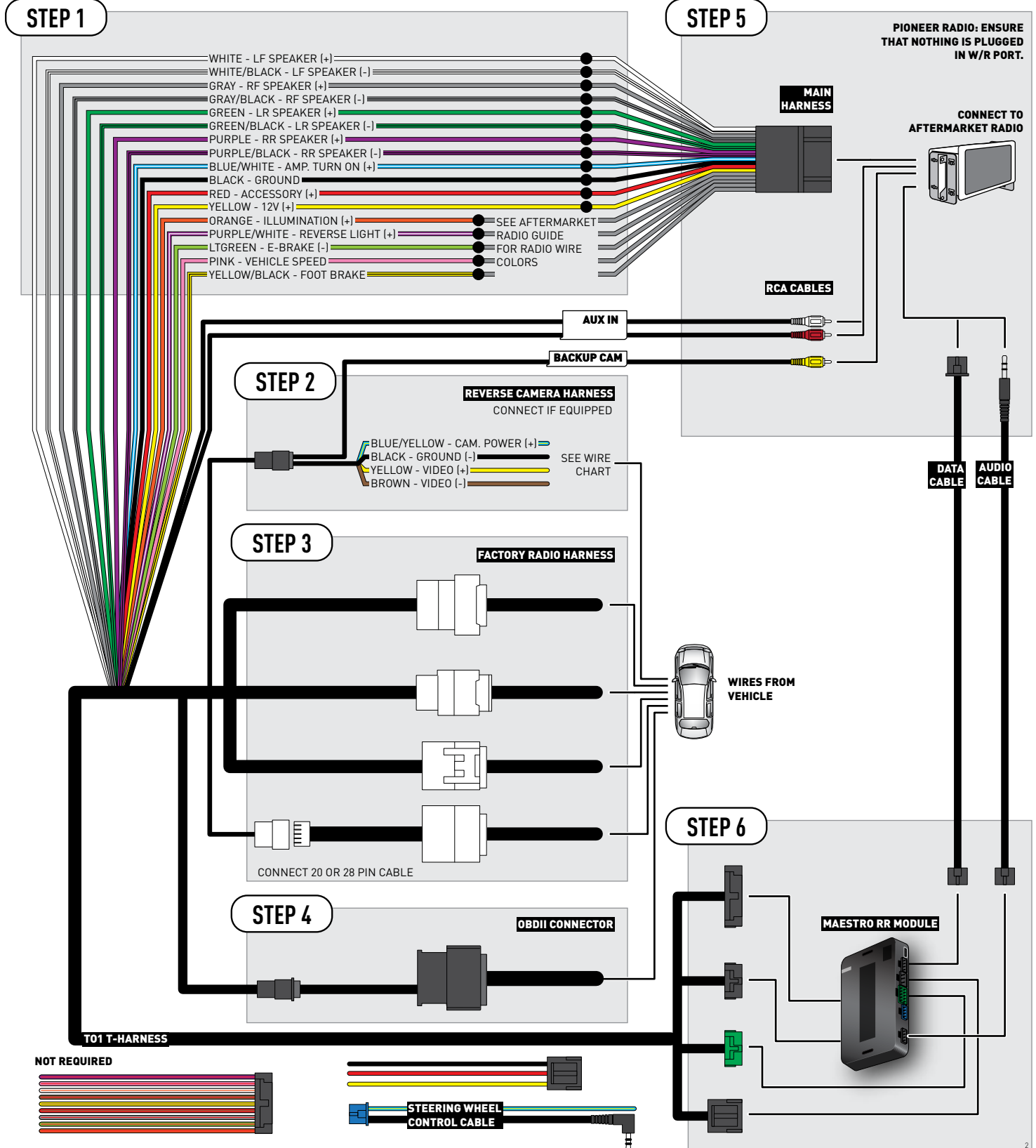
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