



## 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 HRN-RR-TO2 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

#### ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

#### OPTIONAL ACCESSORIES



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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# 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 T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## 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.

### Notes

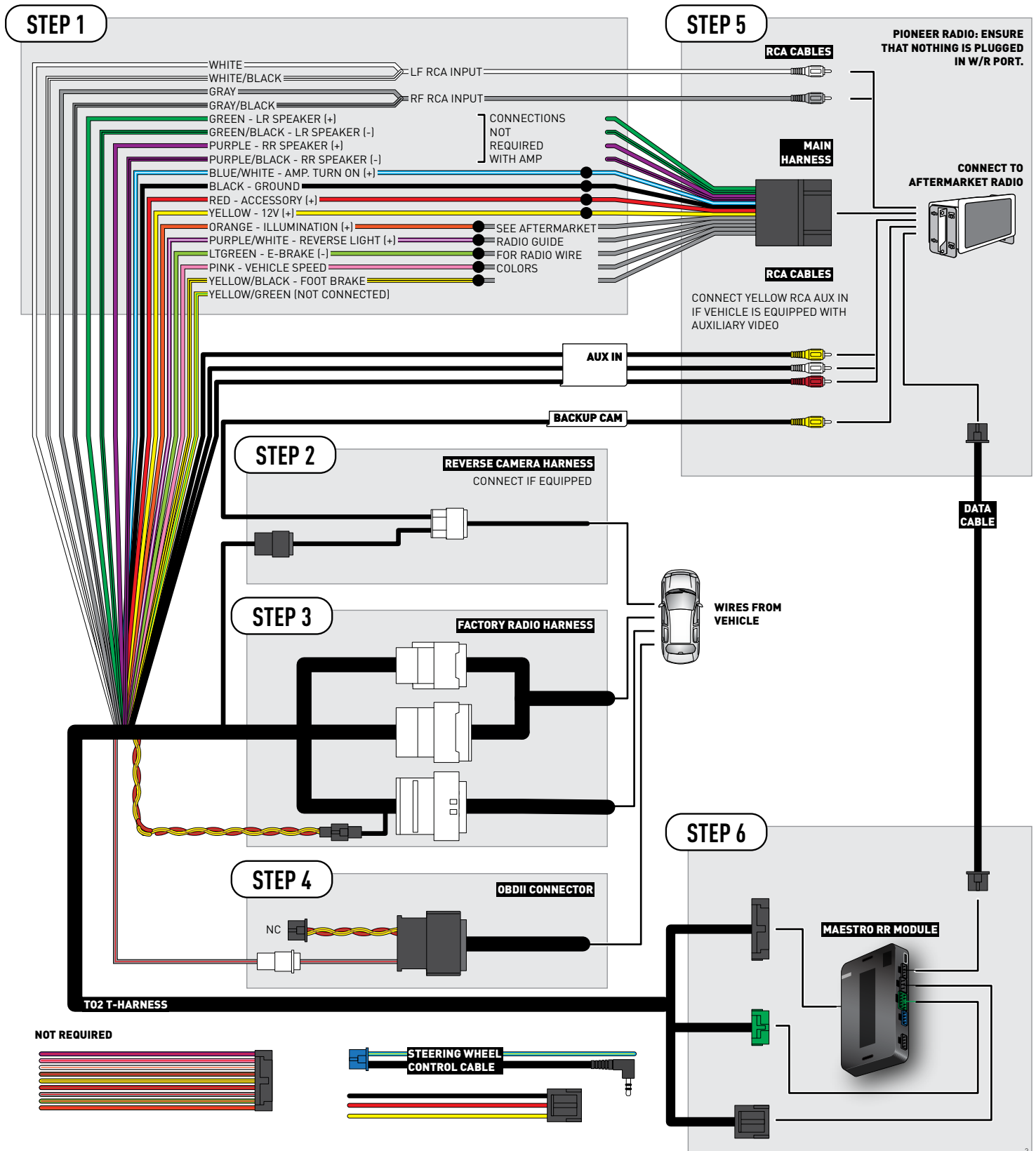
**On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

**For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen.**

## STEP 6

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

# WIRING DIAGRAM



# 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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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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**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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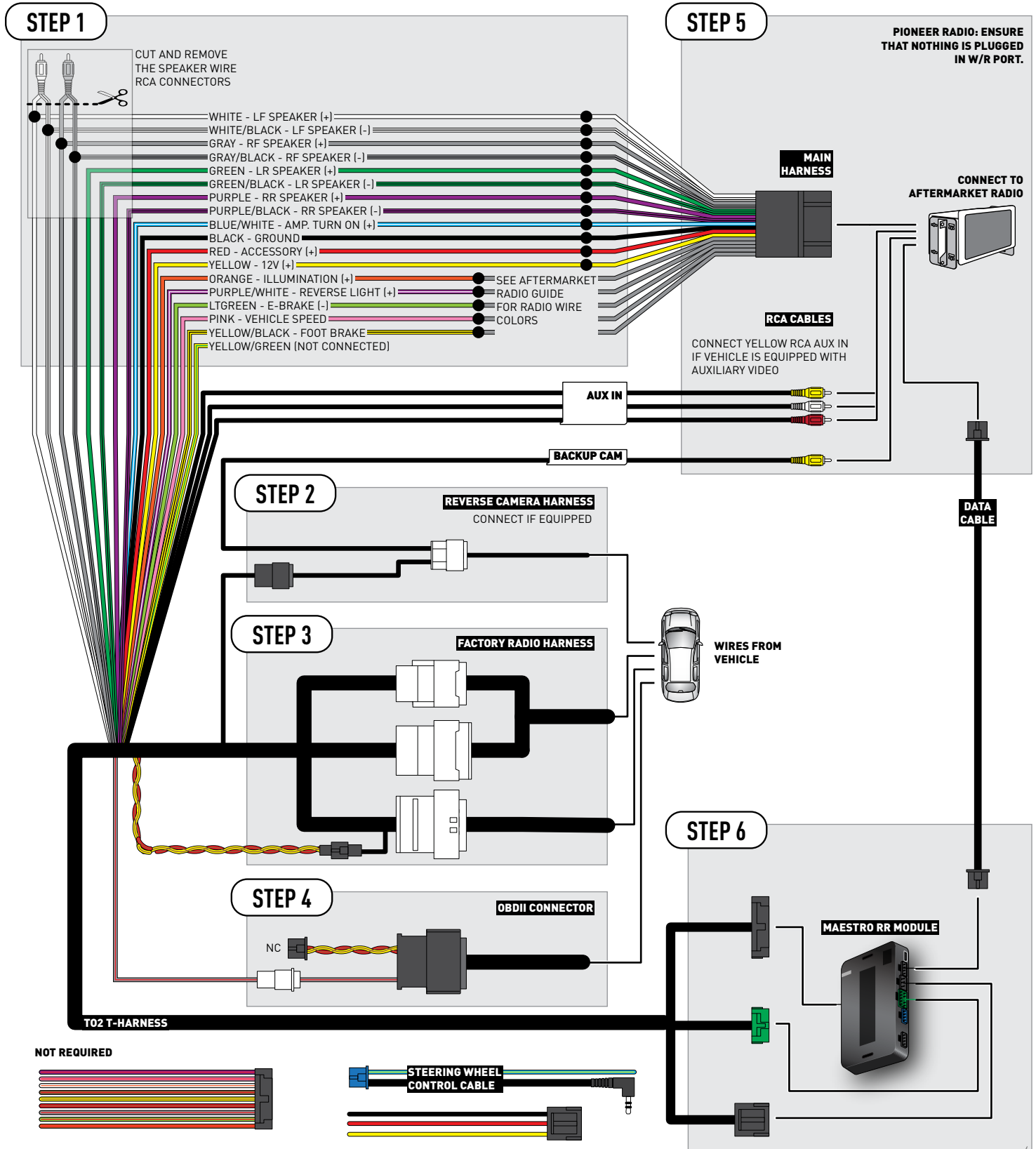
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- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

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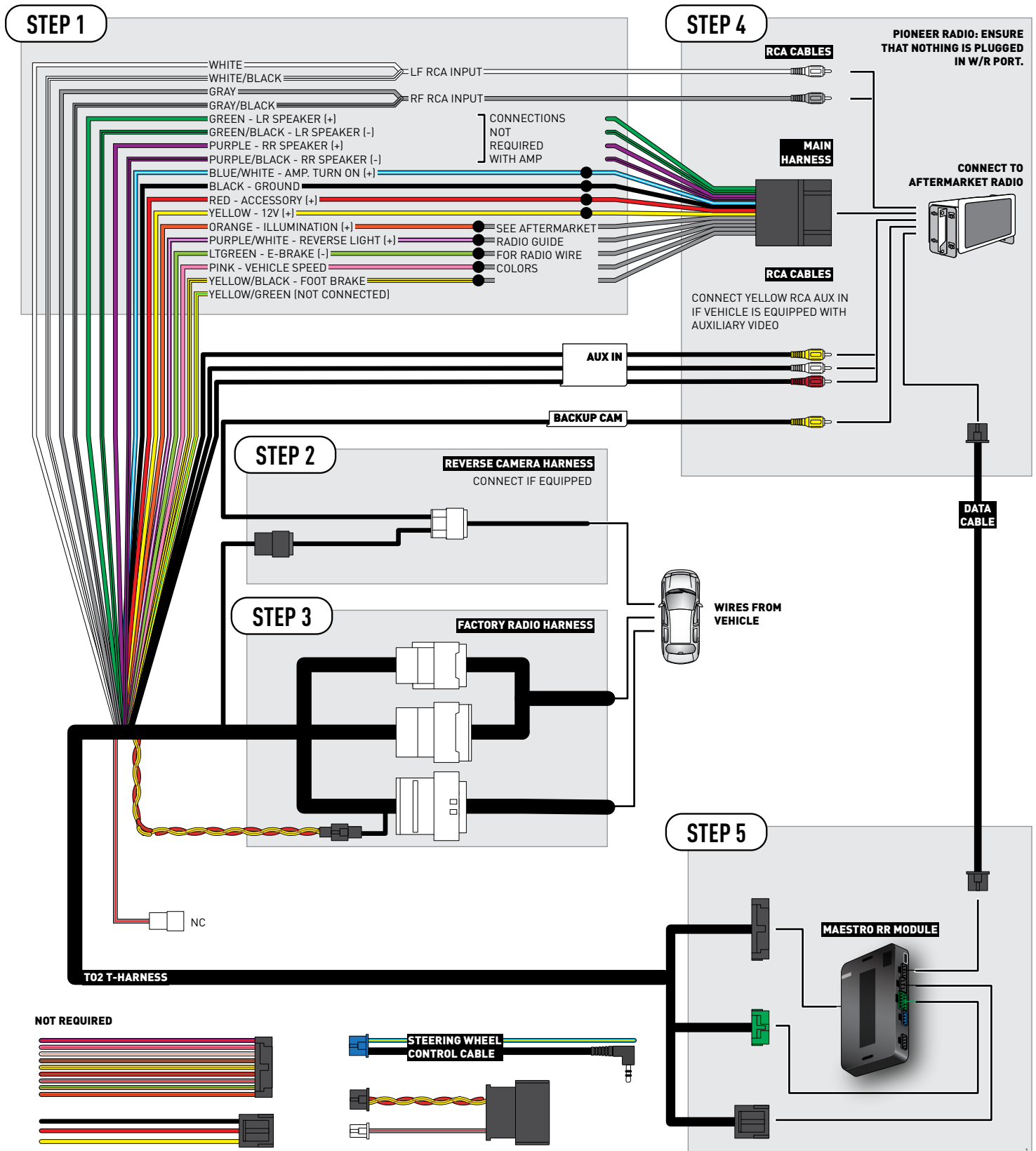
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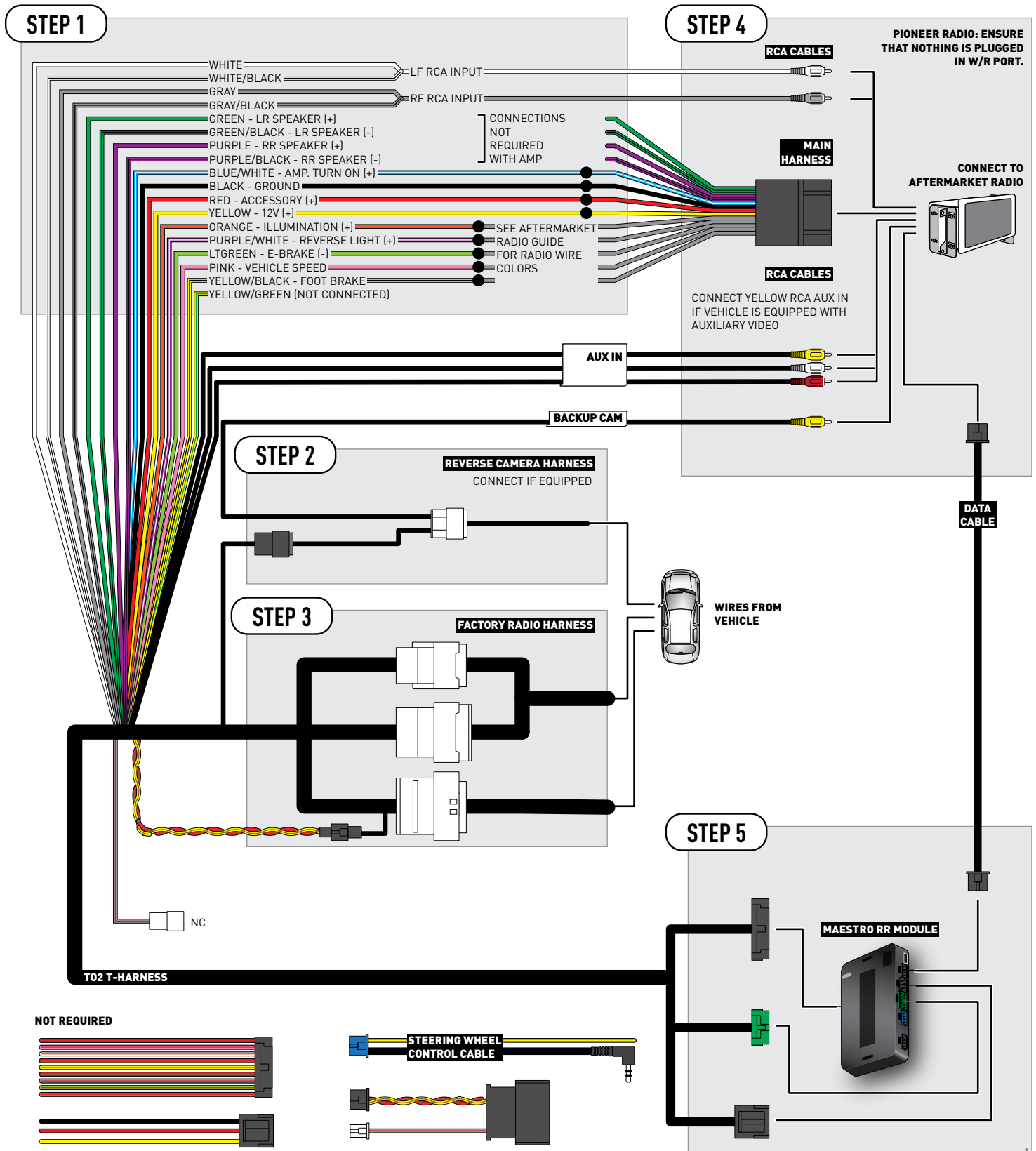
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2013-2014

TOYOTA AVALON

WITH NAV WITHOUT JBL

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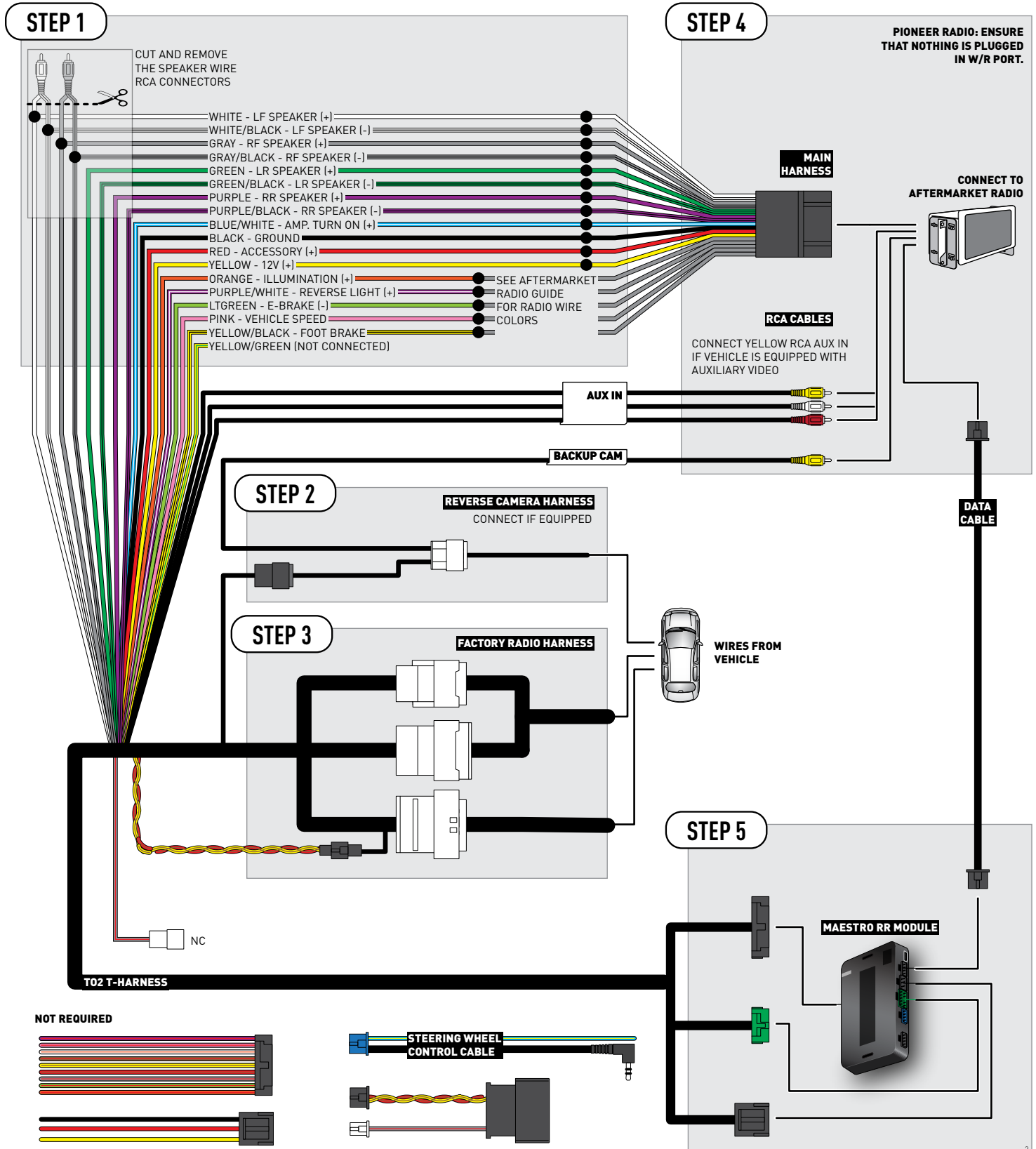
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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	[DATA]	Pink	Green/White	Pink	Pink	N/A

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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.12voldata.com/forum/](http://www.12voldata.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 HRN-RR-TO2 Installation Harness

## PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

## ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

## OPTIONAL ACCESSORIES



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.

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# NEED HELP?

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# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker RCA connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

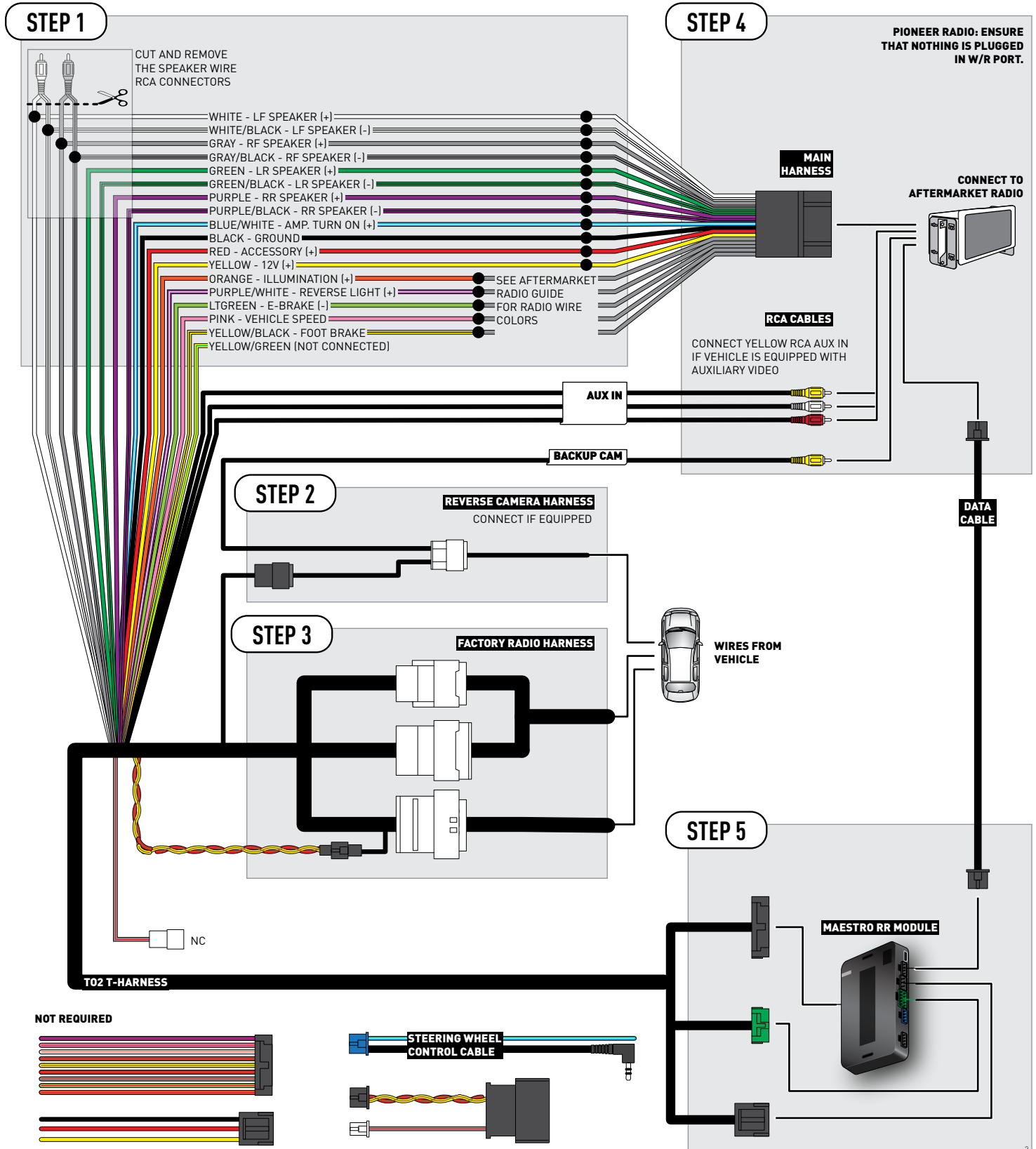
**On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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## STEP 5

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

# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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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Turn the key to the OFF position, then disconnect all connectors from the module.  
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2018

TOYOTA C-HR

WITHOUT APPLE CARPLAY OR ANDROID AUTO

---

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



#### PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRN-RR-TO2 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

#### ADDITIONAL RESOURCES

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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

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

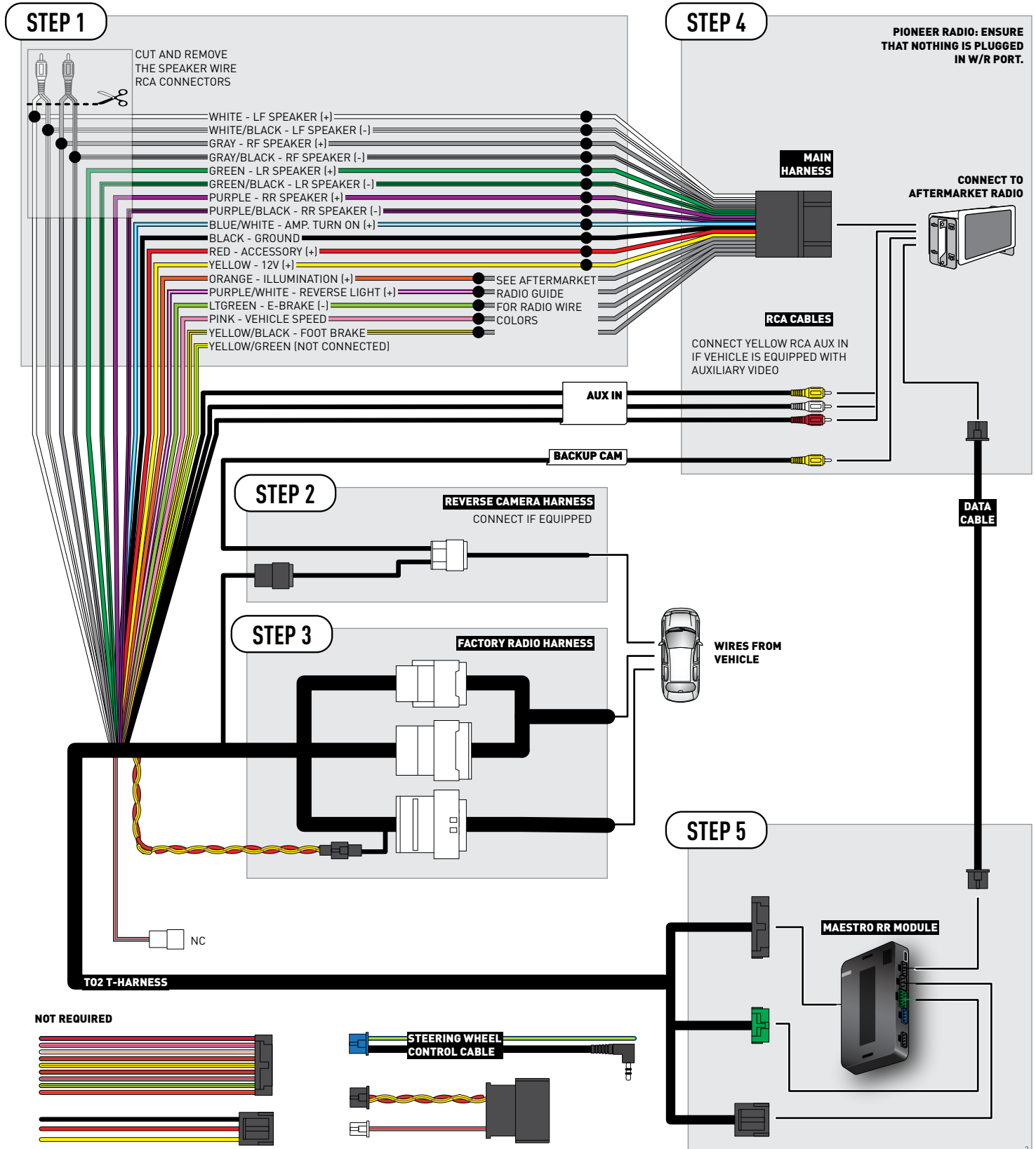
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## STEP 5

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



# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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

# TROUBLESHOOTING TABLE

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The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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!



## PRODUCTS REQUIRED

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iDataLINK Maestro HRN-RR-TO2 Installation Harness

## PROGRAMMED FIRMWARE

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## ADDITIONAL RESOURCES

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- Remove the factory radio.

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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

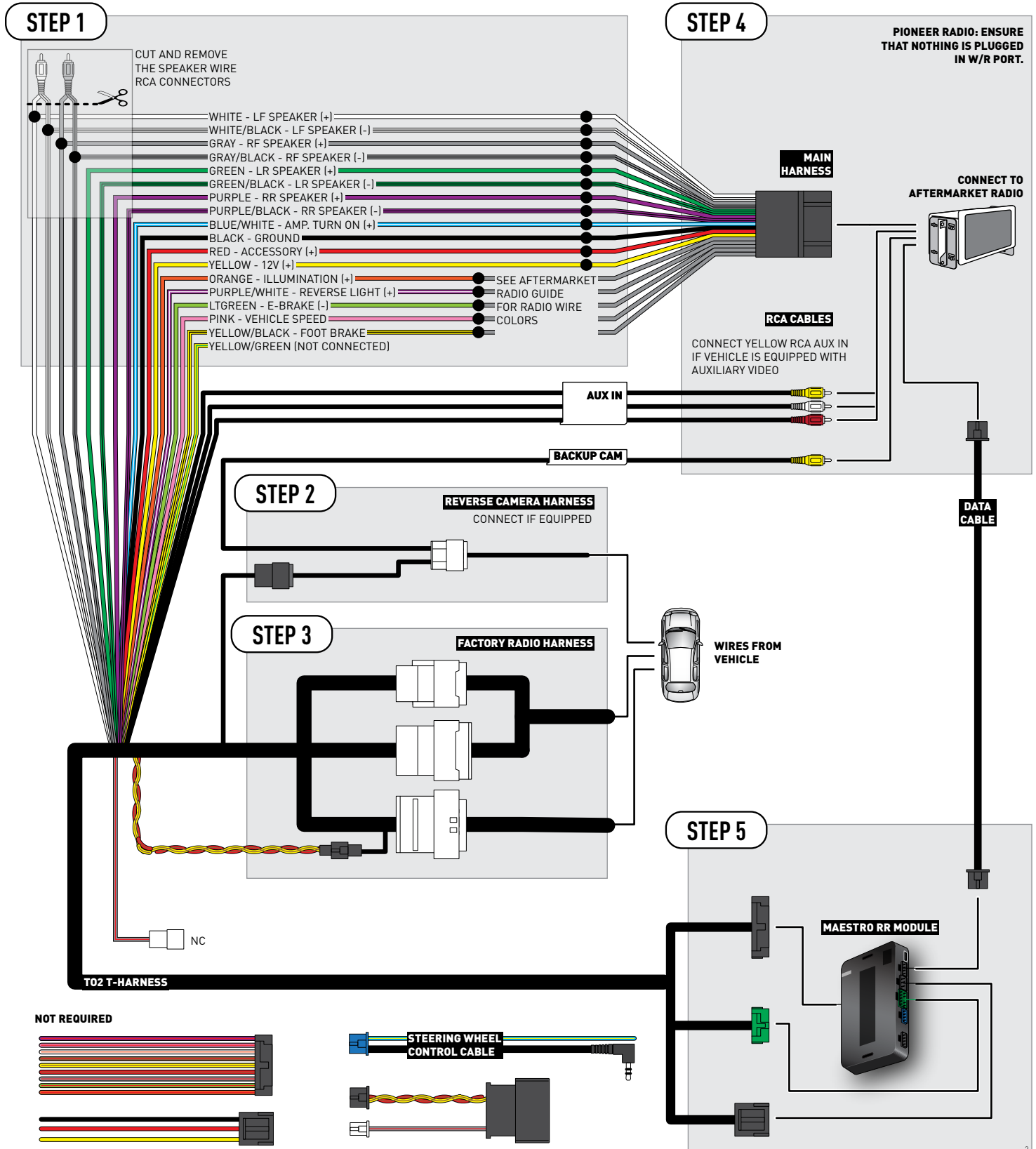
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## STEP 5

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

# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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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# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
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TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## MAESTRO RR RESET PROCEDURE:

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

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

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2012-2014

TOYOTA CAMRY

WITH FACTORY 6.1 INCH SCREEN AND JBL

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



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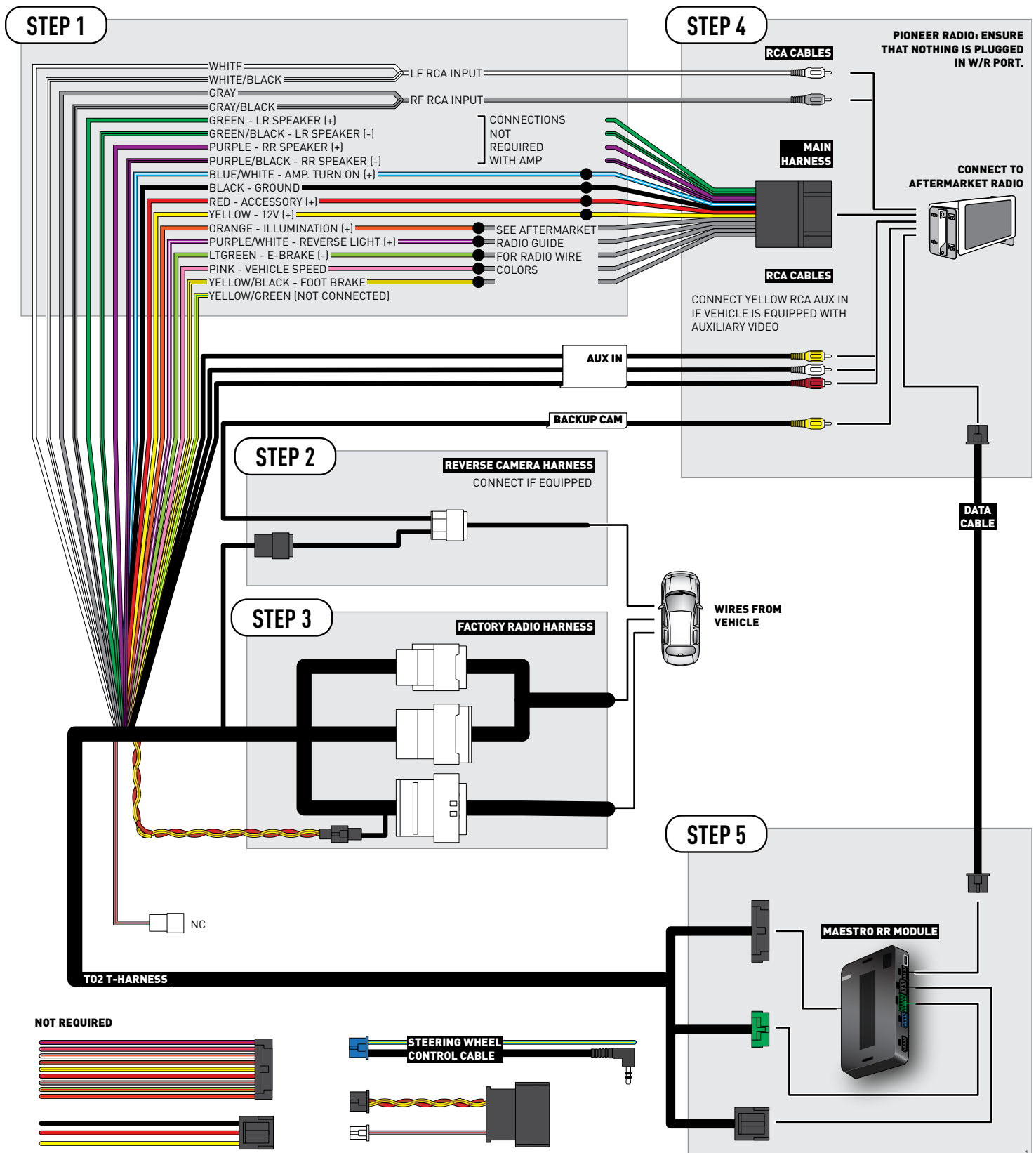
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- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM



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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 T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

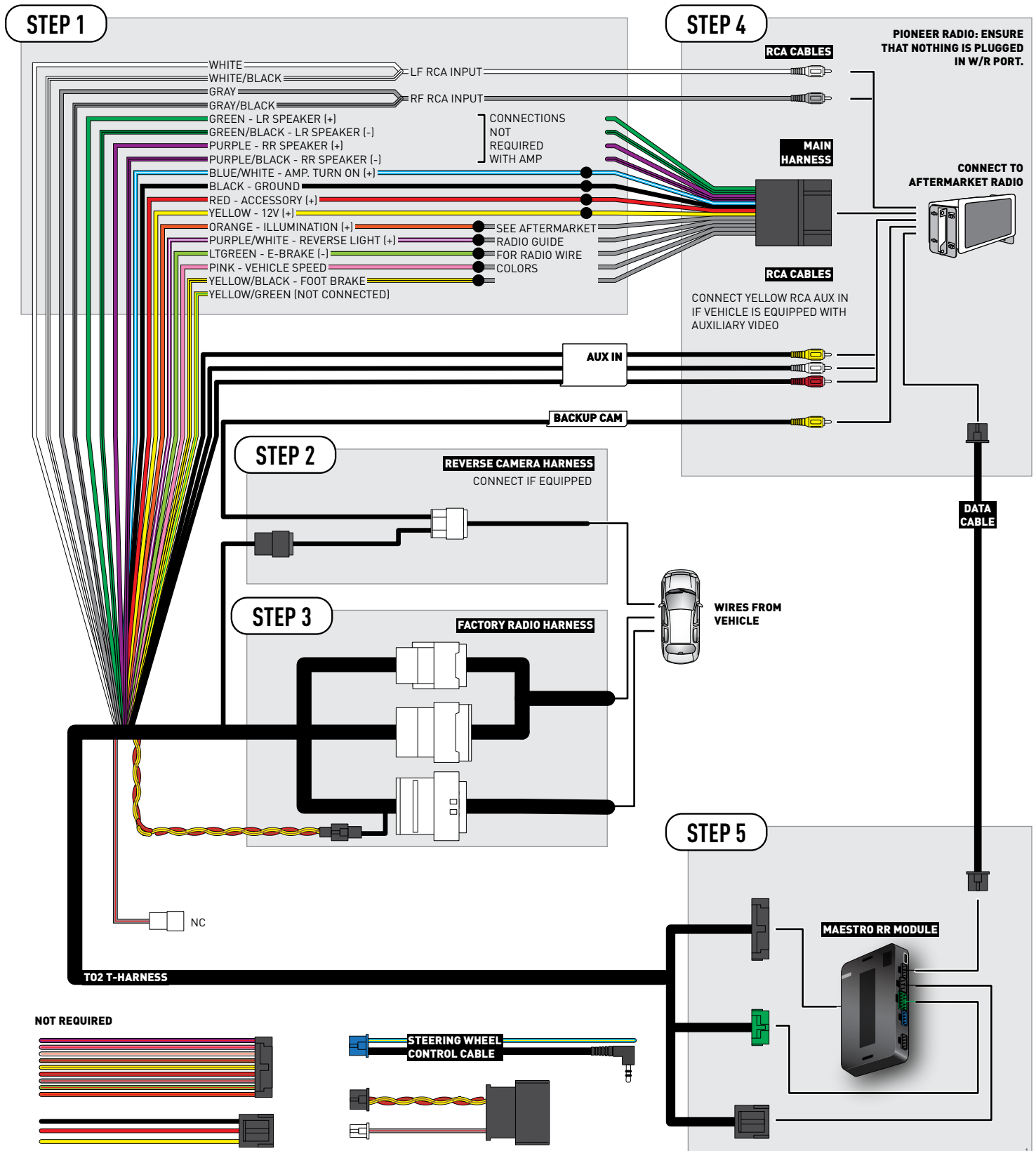
**On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

**For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen.**

## STEP 5

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

# WIRING DIAGRAM



# 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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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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**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 HRN-RR-TO2 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES



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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
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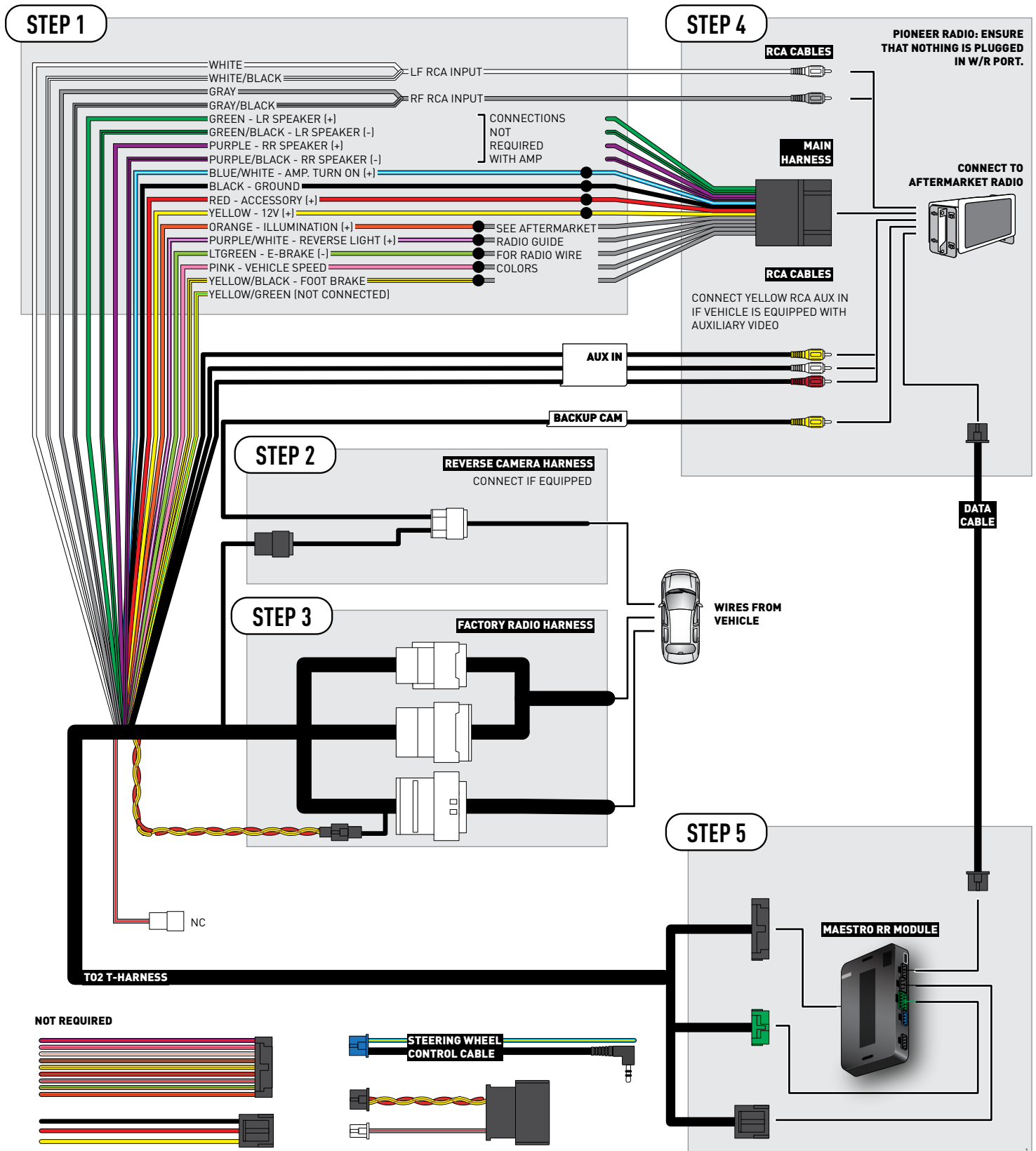
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## STEP 5

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# WIRING DIAGRAM



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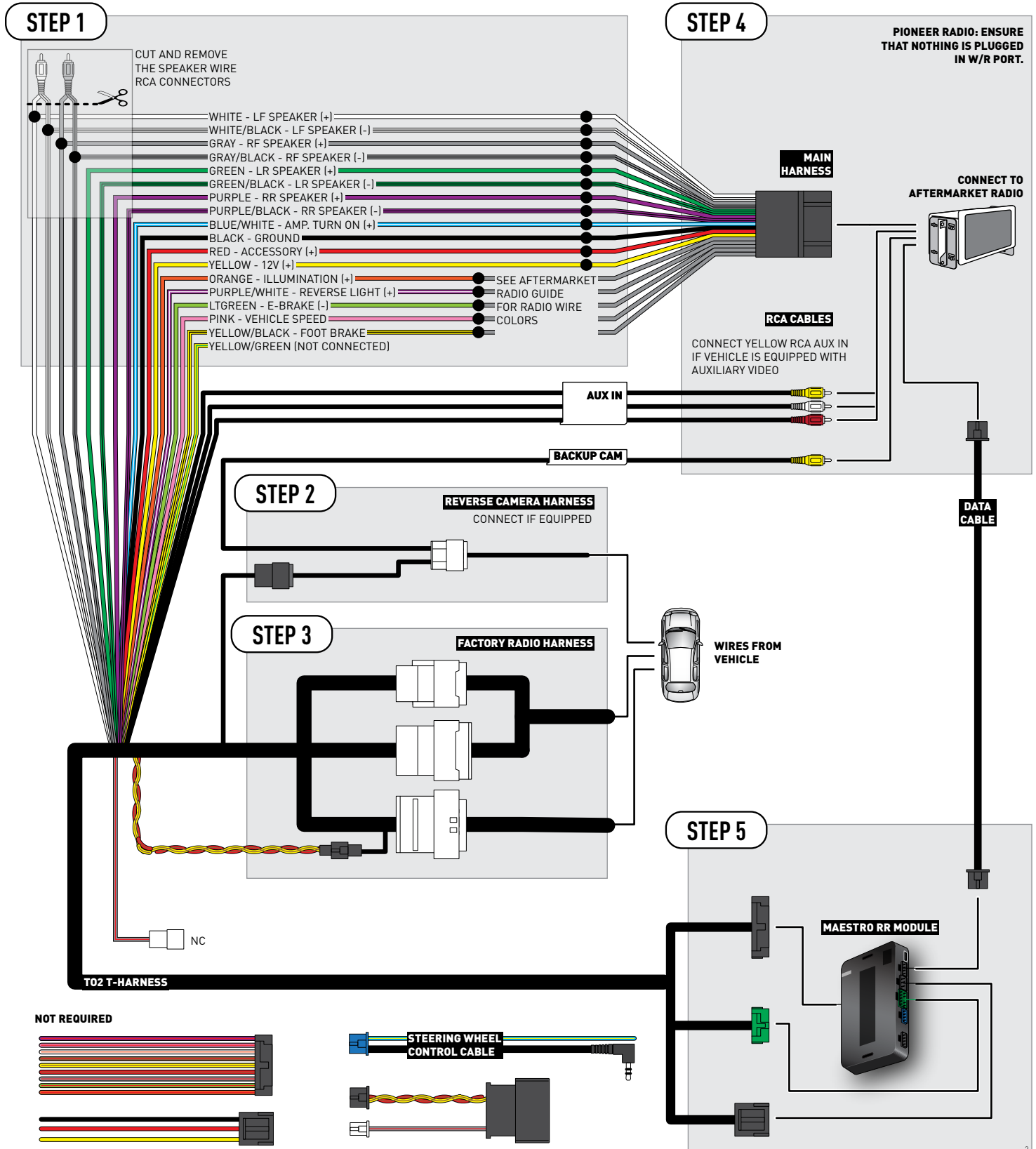
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## STEP 5

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

# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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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2014-2019

TOYOTA COROLLA  
WITH FACTORY 6.1 INCH SCREEN

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



## PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRN-RR-TO2 Installation Harness

## PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

## ADDITIONAL RESOURCES

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## OPTIONAL ACCESSORIES



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## STEP 2

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## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the aftermarket radio harnesses into the aftermarket radio.
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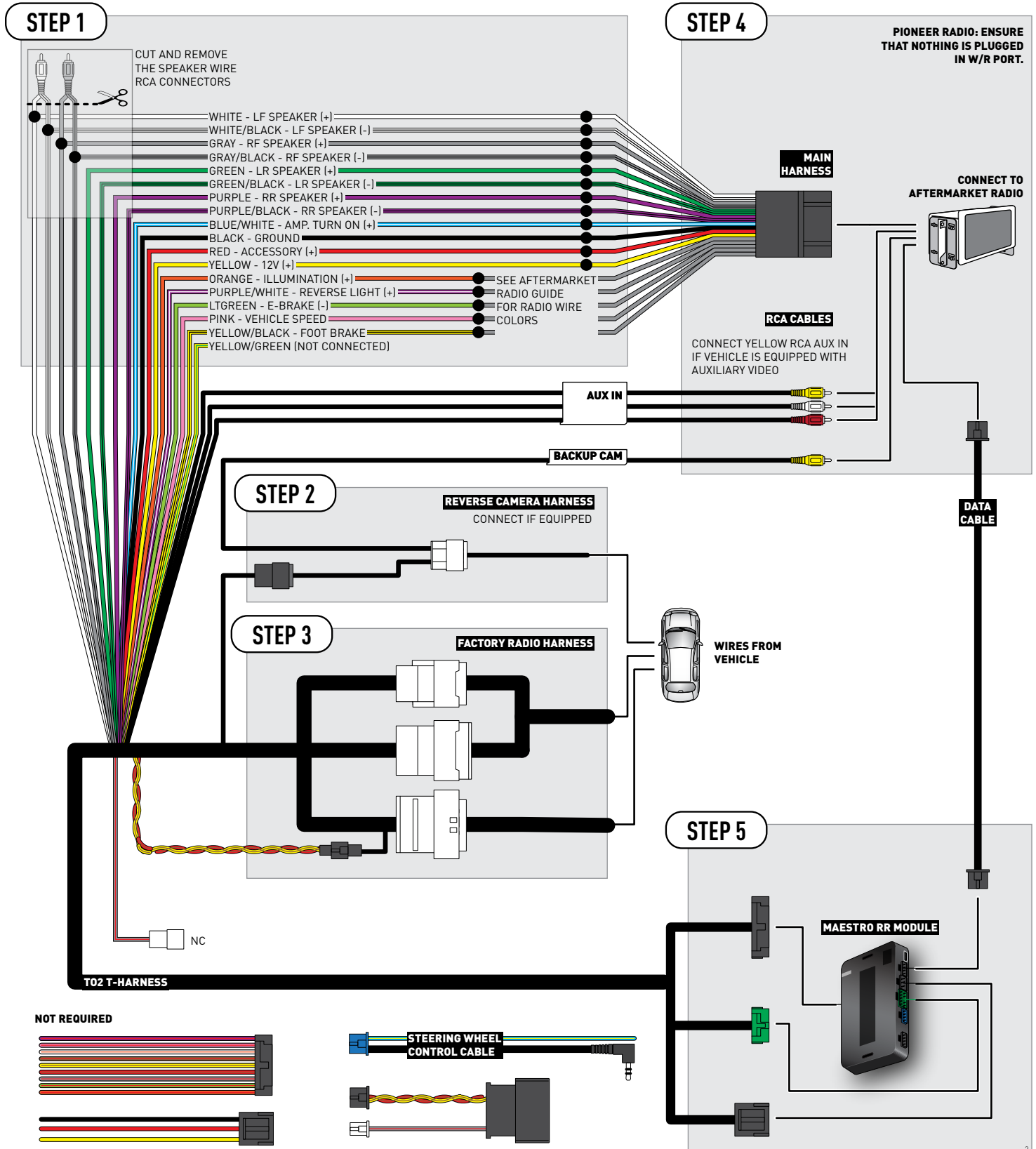
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# WIRING DIAGRAM



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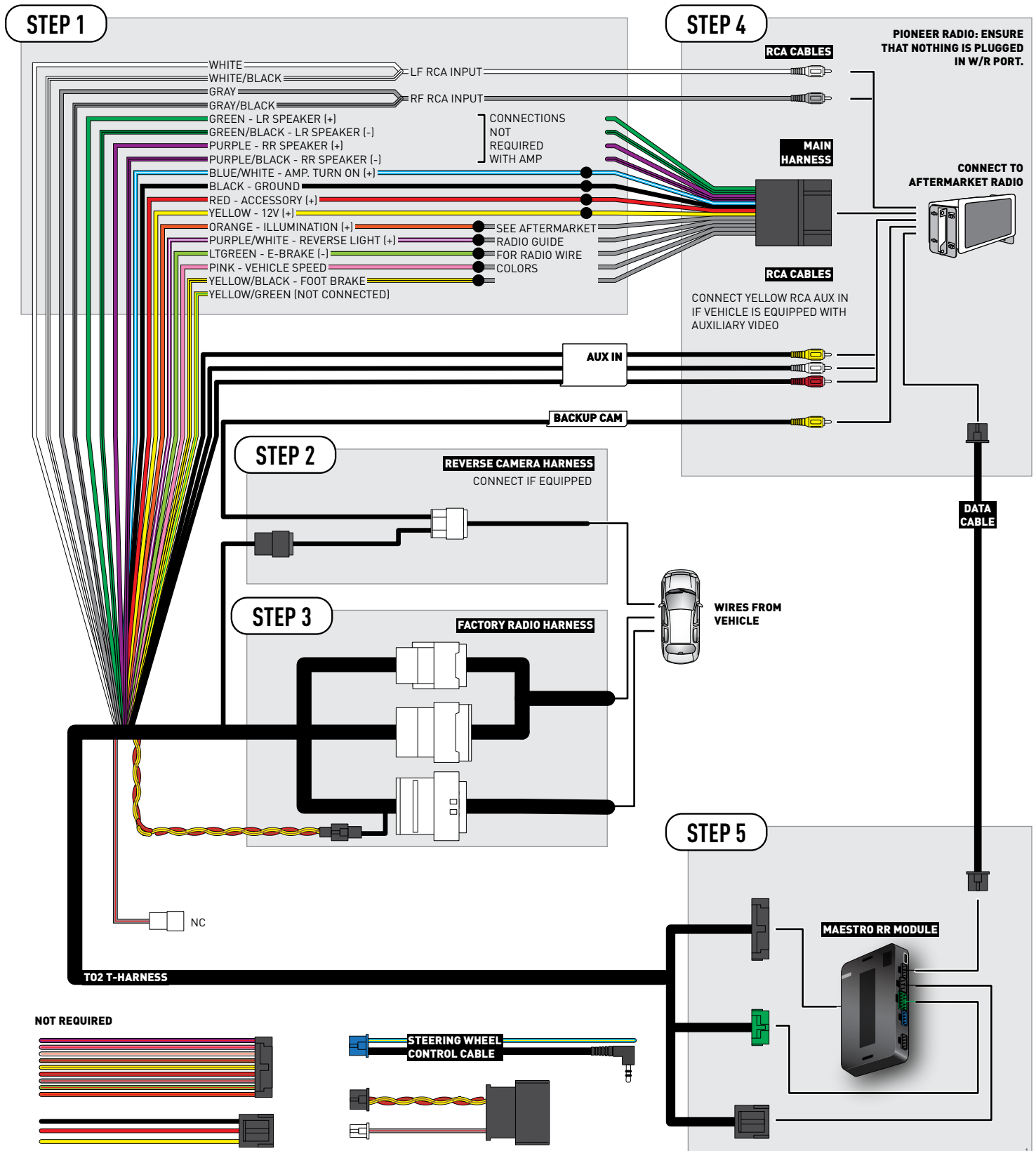
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The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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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- Remove the factory radio.

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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

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

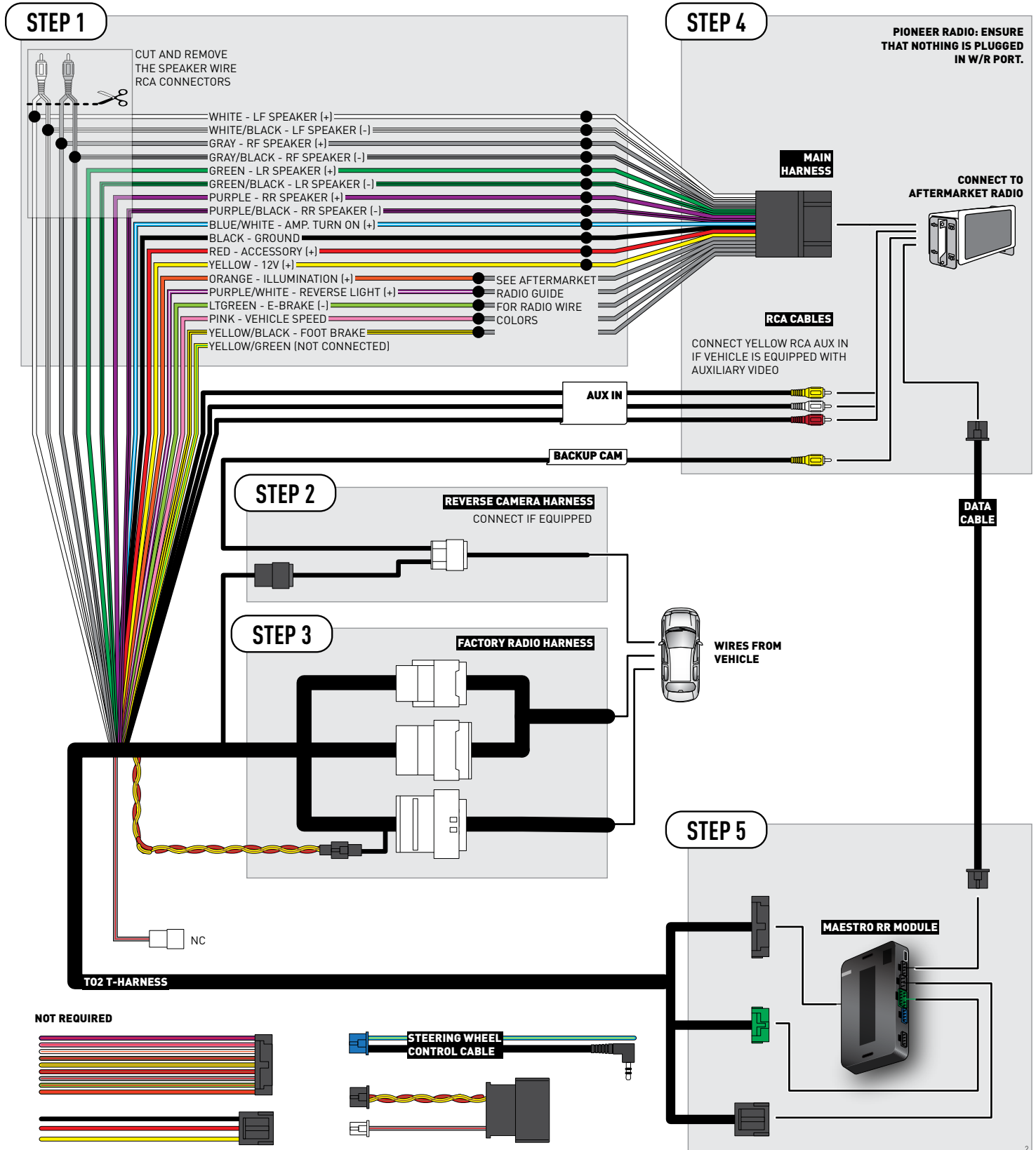
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## STEP 5

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



# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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

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## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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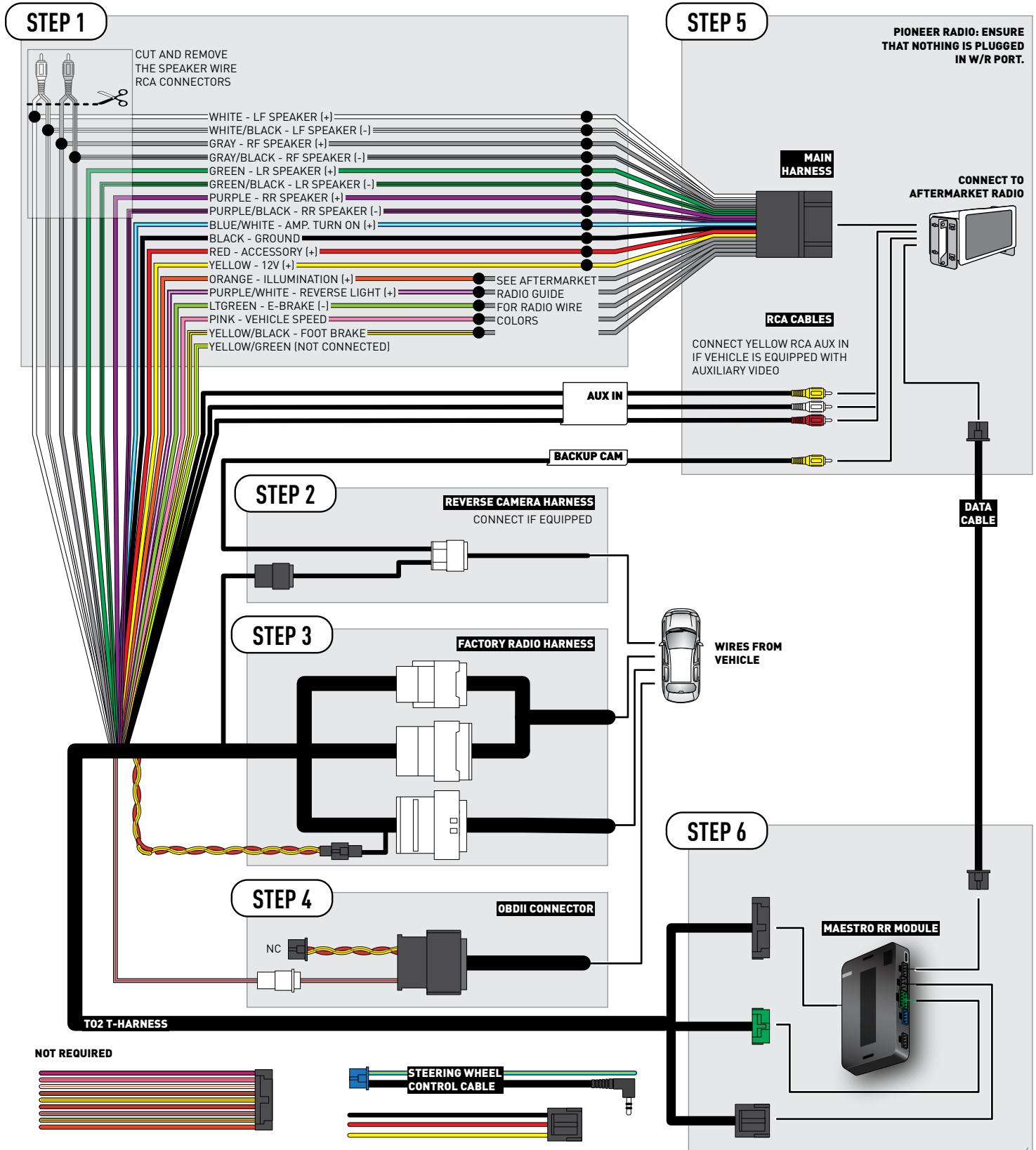
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## STEP 6

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

# WIRING DIAGRAM



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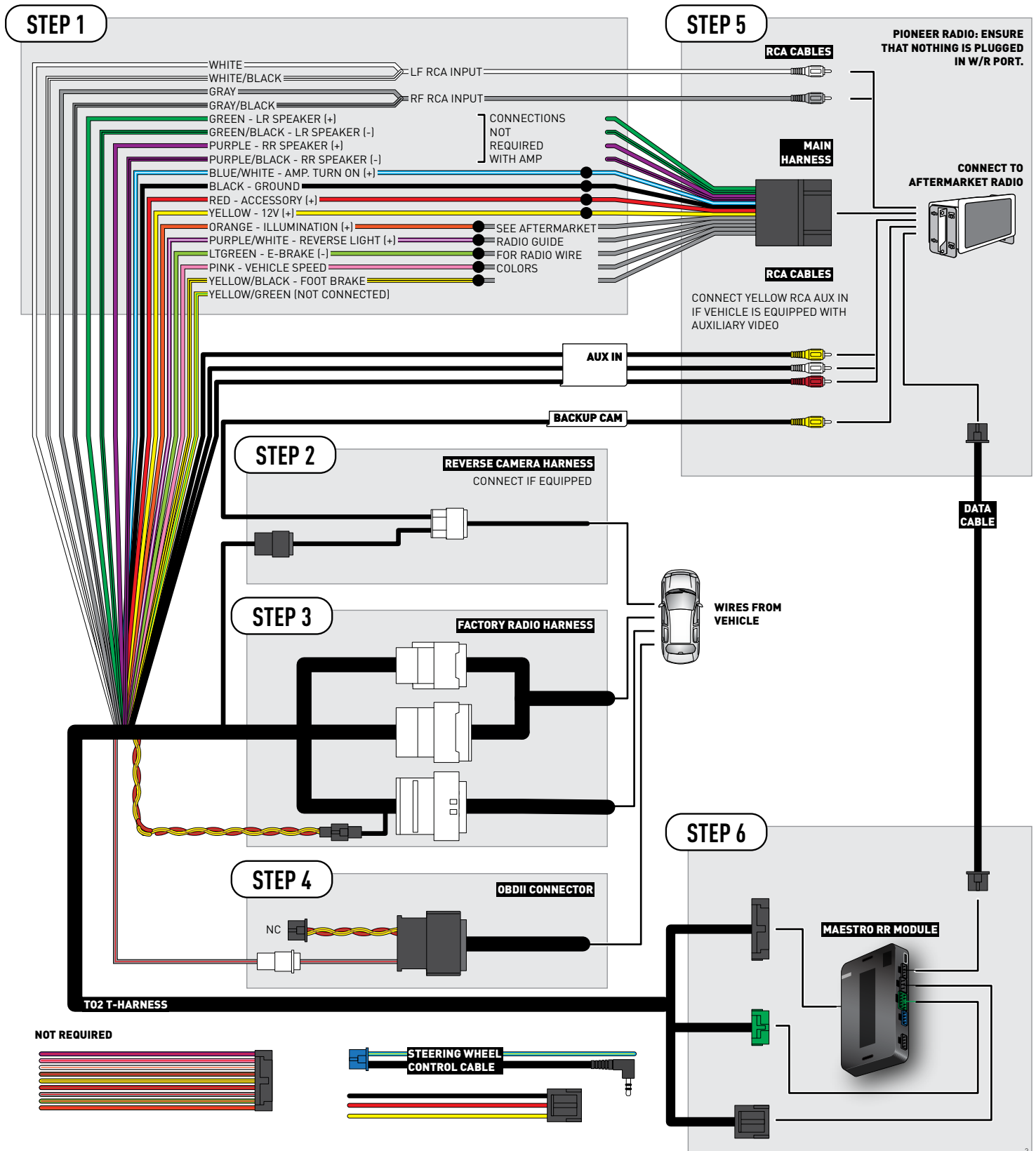
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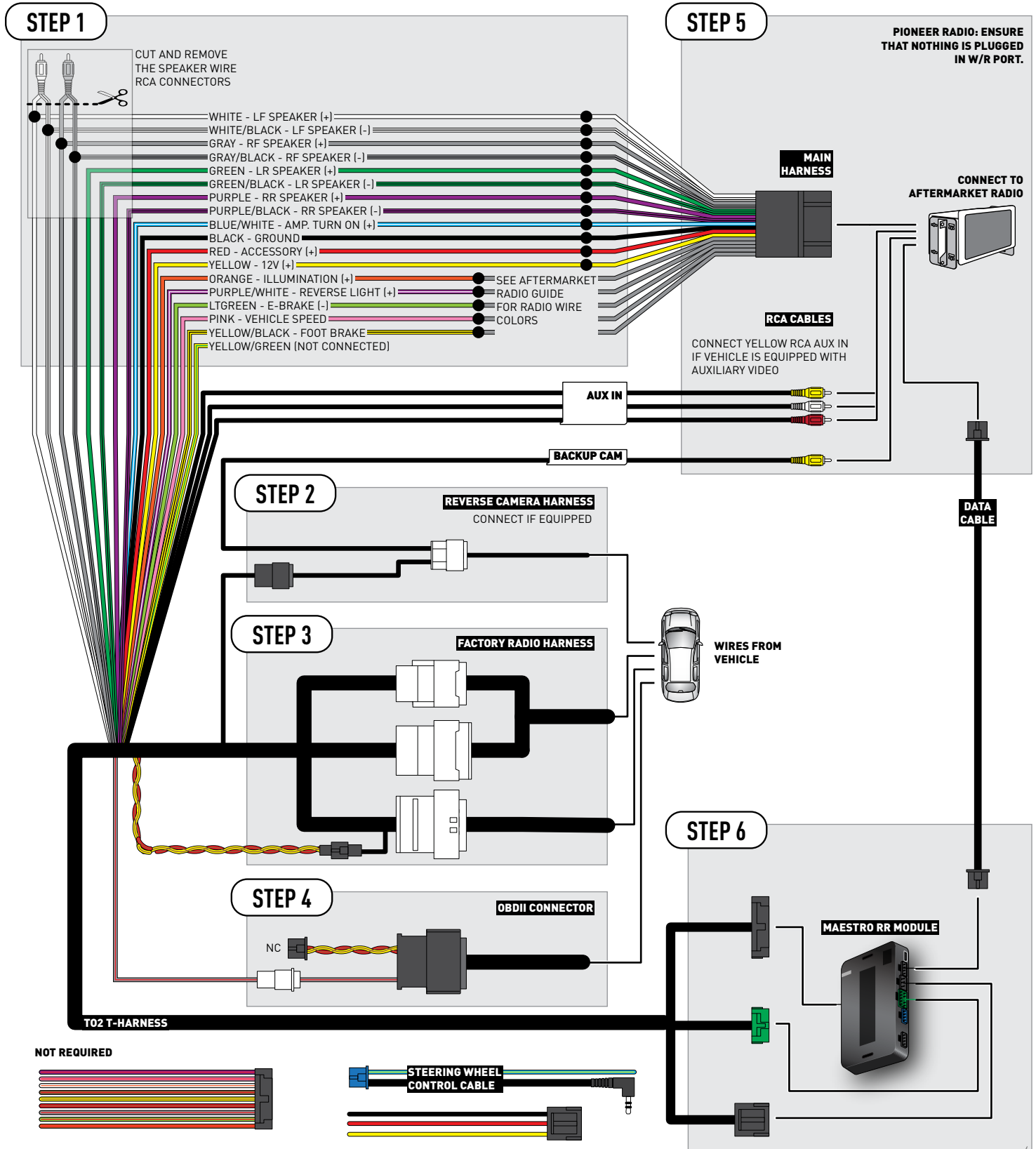
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**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## 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.

### Notes

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

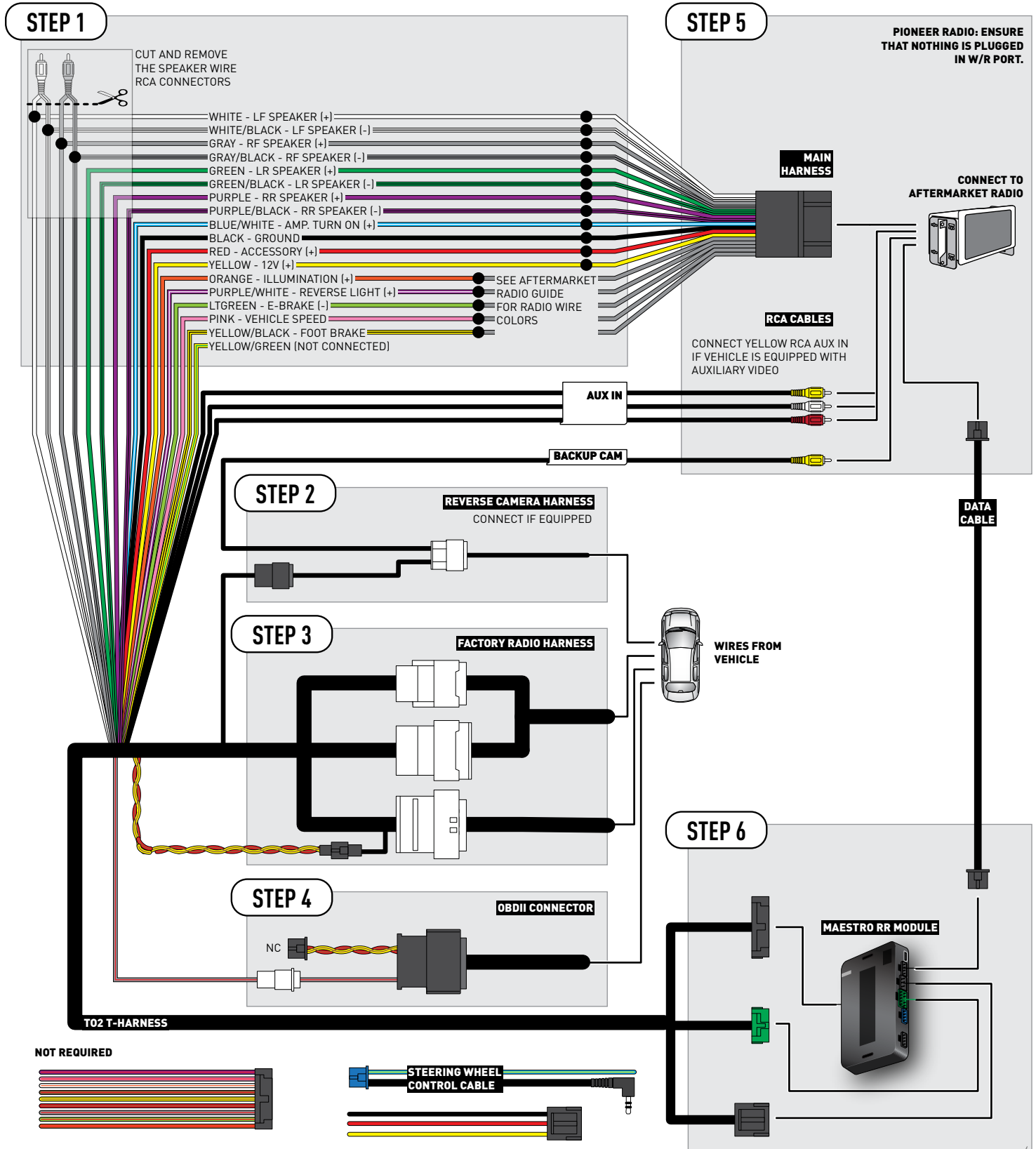
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## STEP 6

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



# WIRING DIAGRAM



# 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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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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iDatalink Maestro HRN-RR-TO2 Installation Harness

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- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

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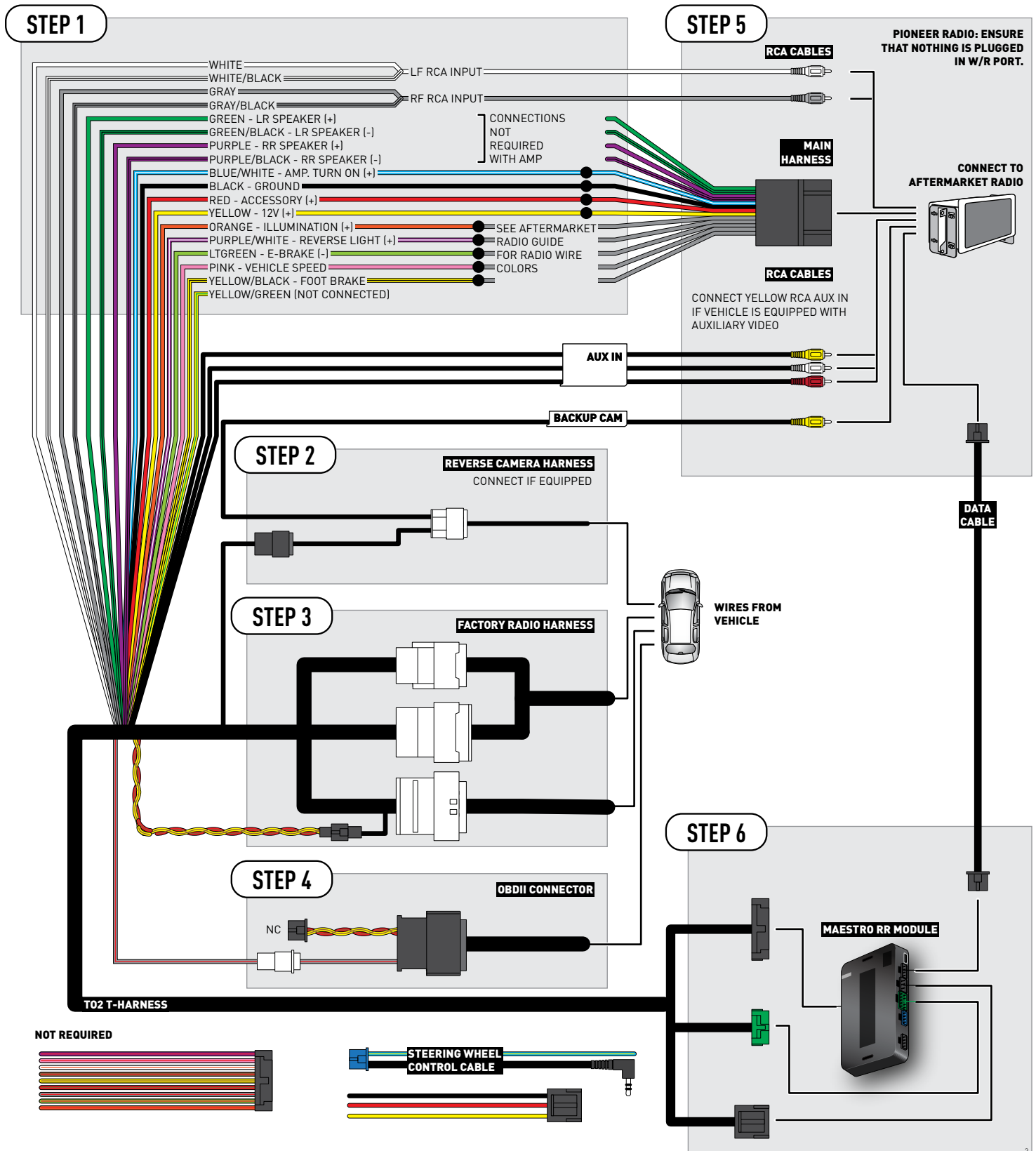
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VSS (vehicle speed sensor)	[DATA]	Pink	Green/White	Pink	Pink	N/A



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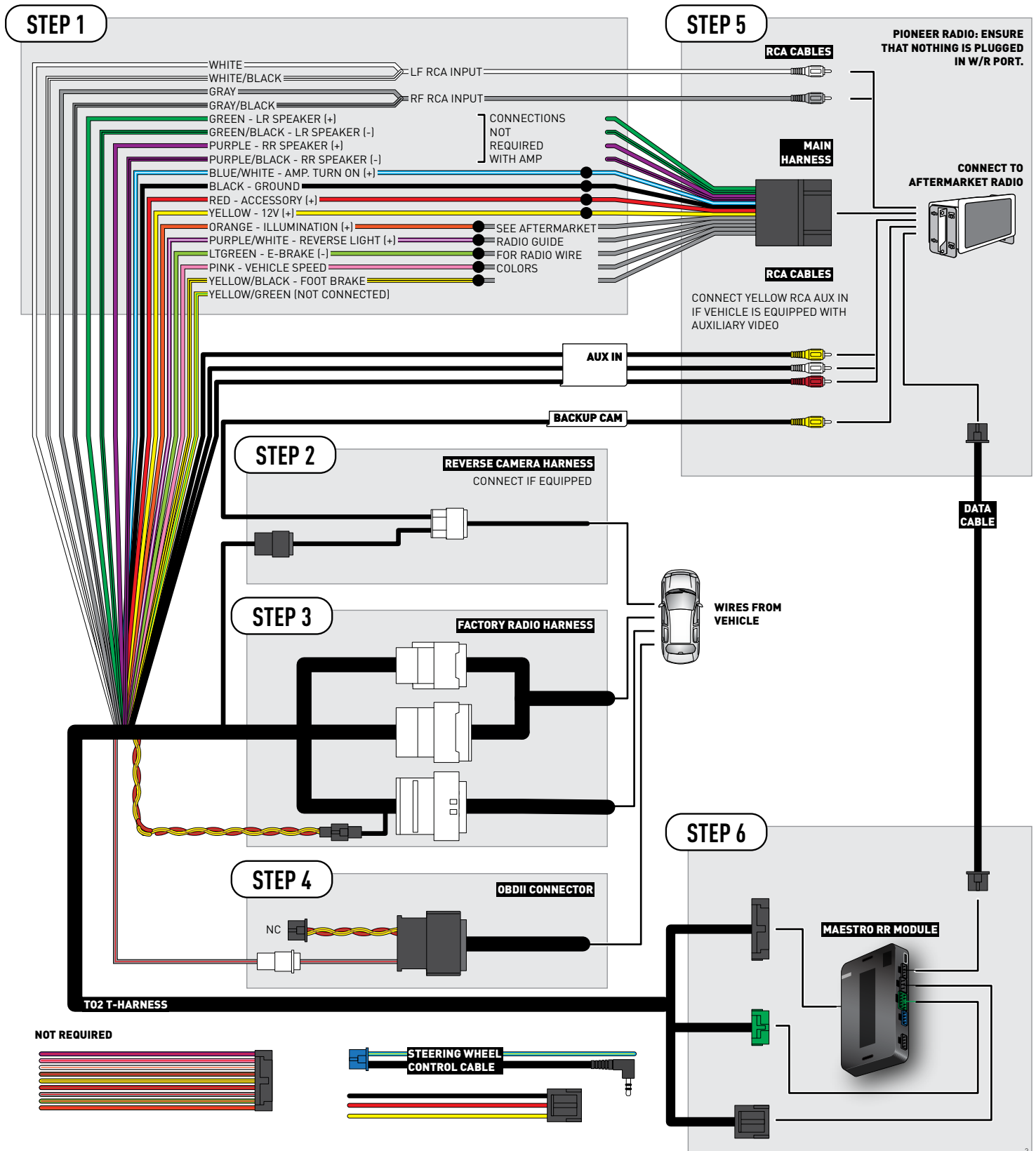
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- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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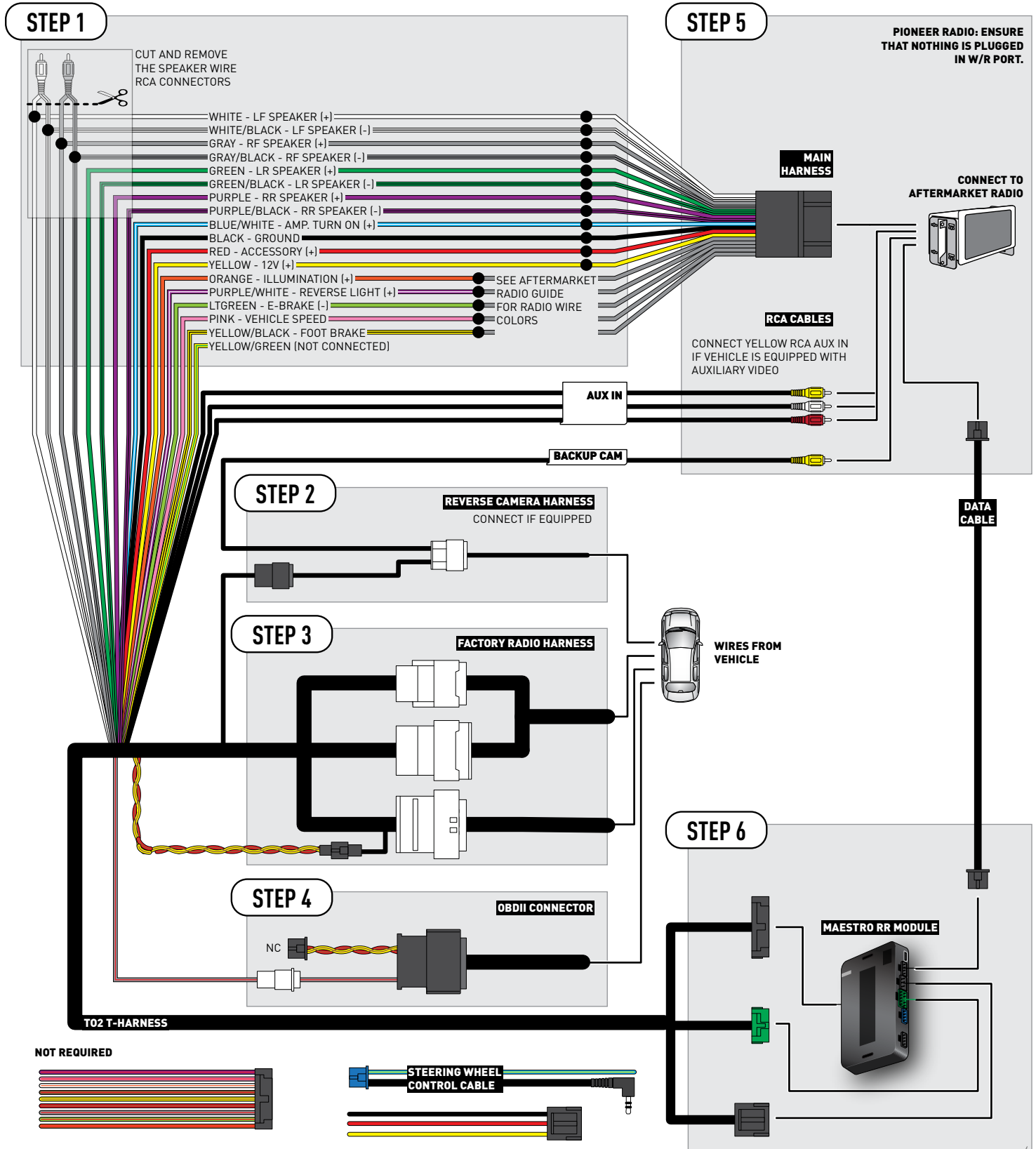
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# WIRING DIAGRAM



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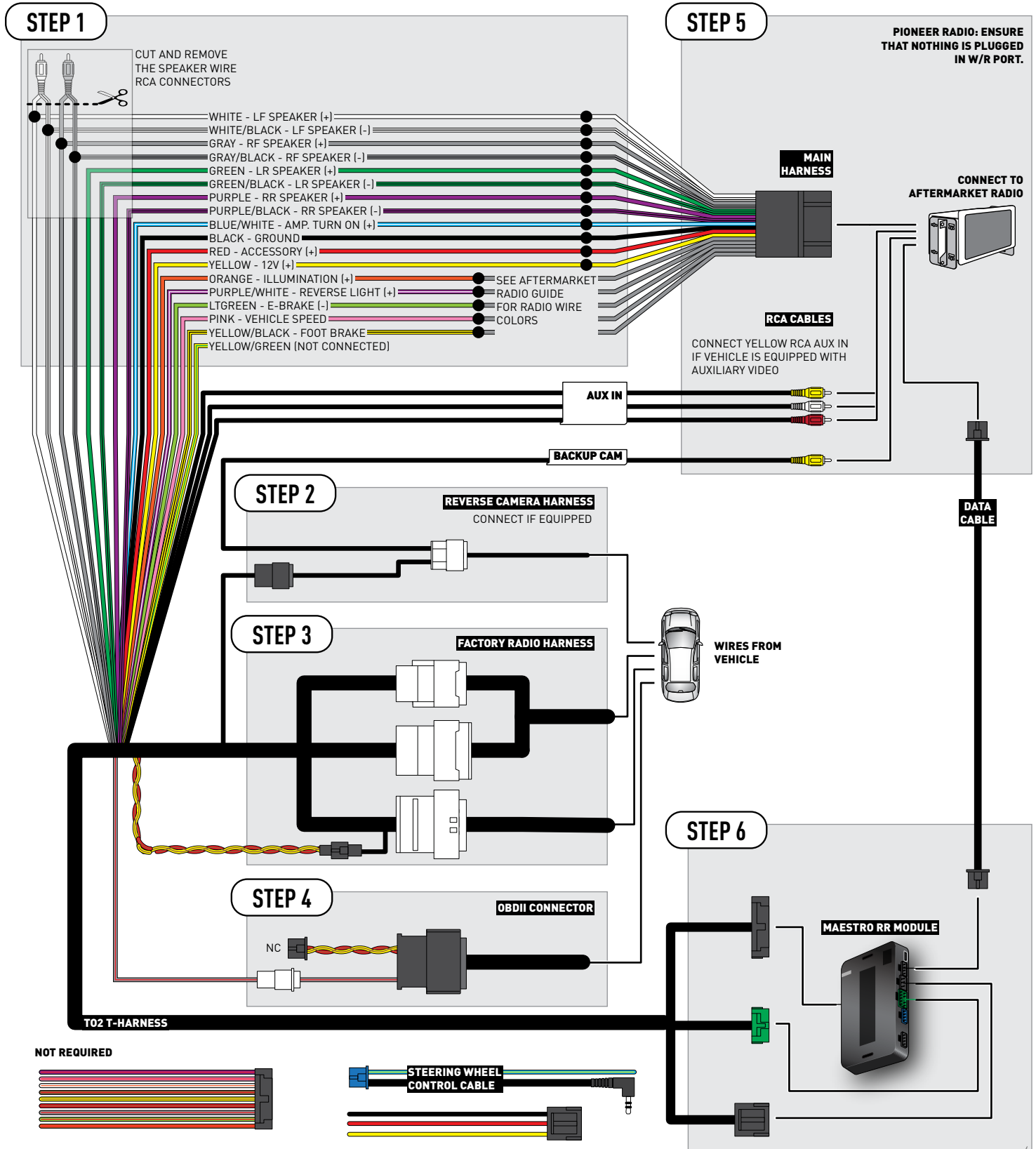
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The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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.12voldata.com/forum/](http://www.12voldata.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 HRN-RR-TO2 Installation Harness

## PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

## ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

## OPTIONAL ACCESSORIES

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

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 T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## 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.

### Notes

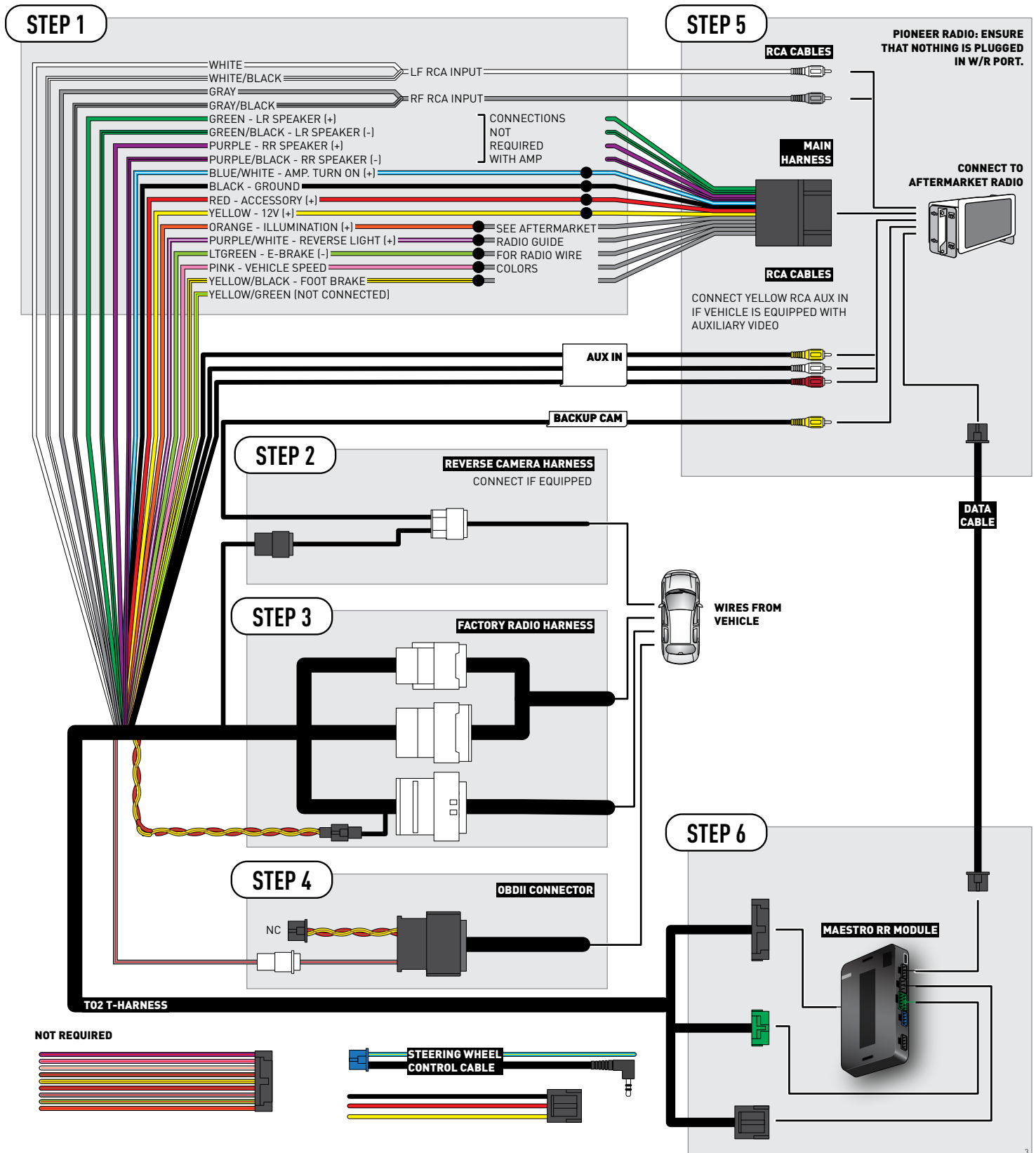
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## STEP 6

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

# WIRING DIAGRAM



# 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



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
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Turn the key to the OFF position, then disconnect all connectors from the module.

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

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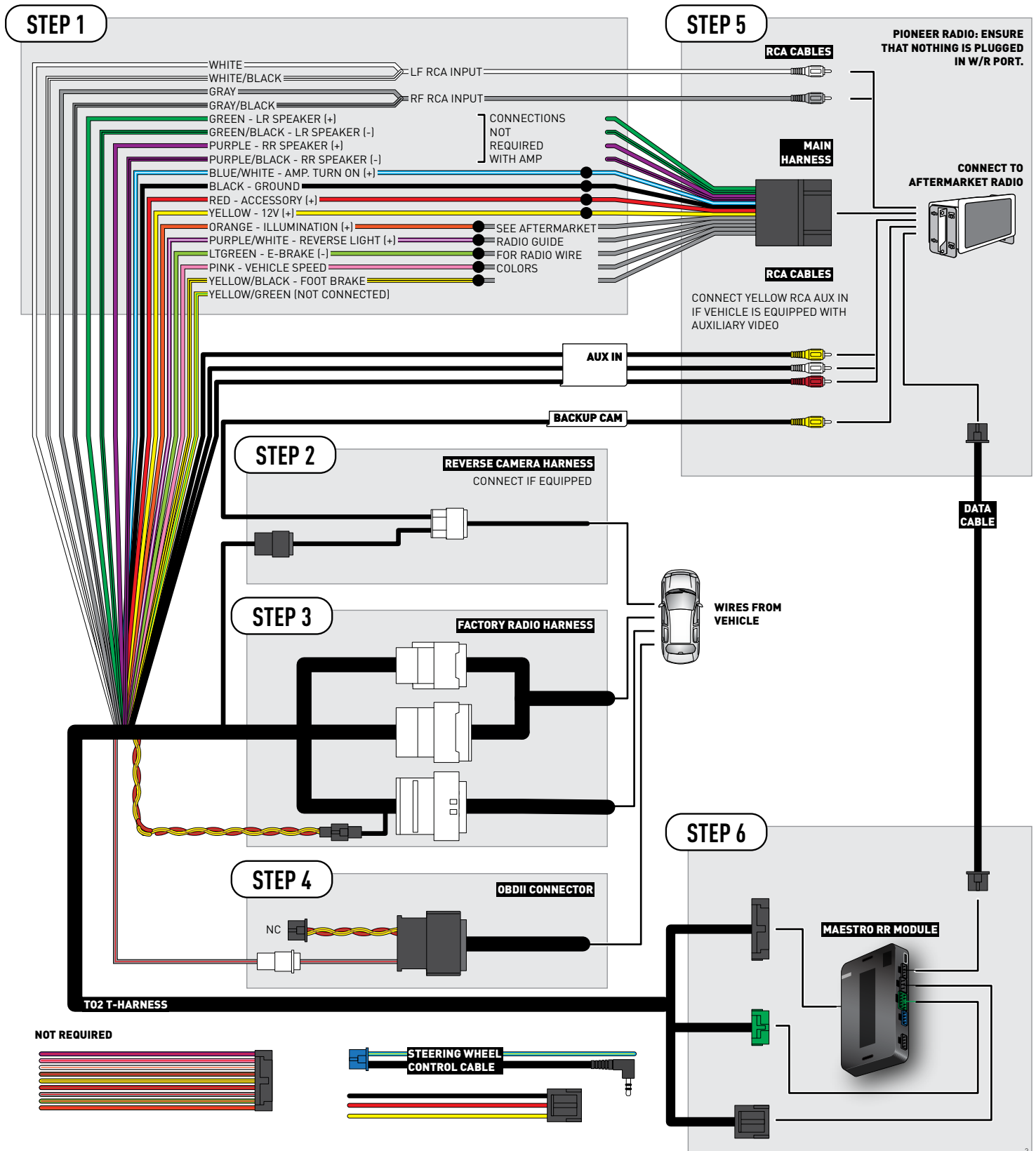
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# WIRING DIAGRAM



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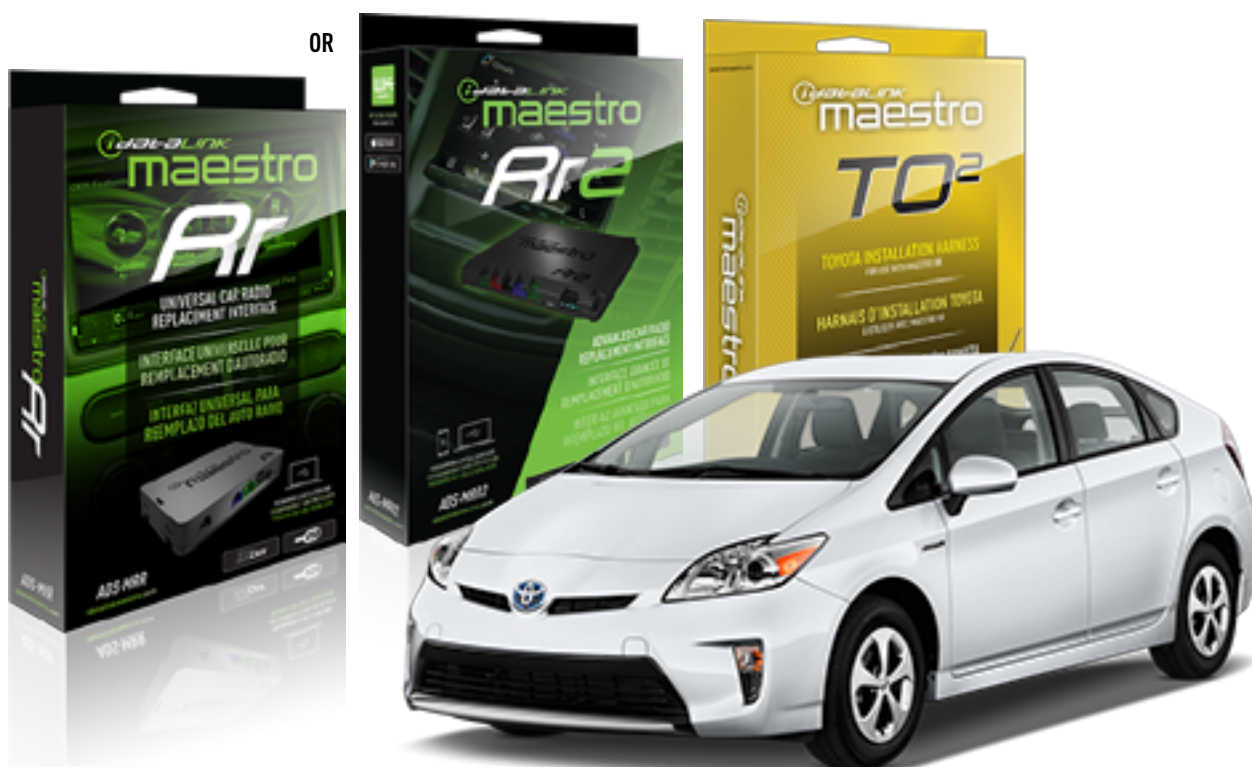
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2012-2014

TOYOTA PRIUS

WITH NAV WITHOUT JBL

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



## PRODUCTS REQUIRED

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## STEP 4

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- Plug the aftermarket radio harnesses into the aftermarket radio.
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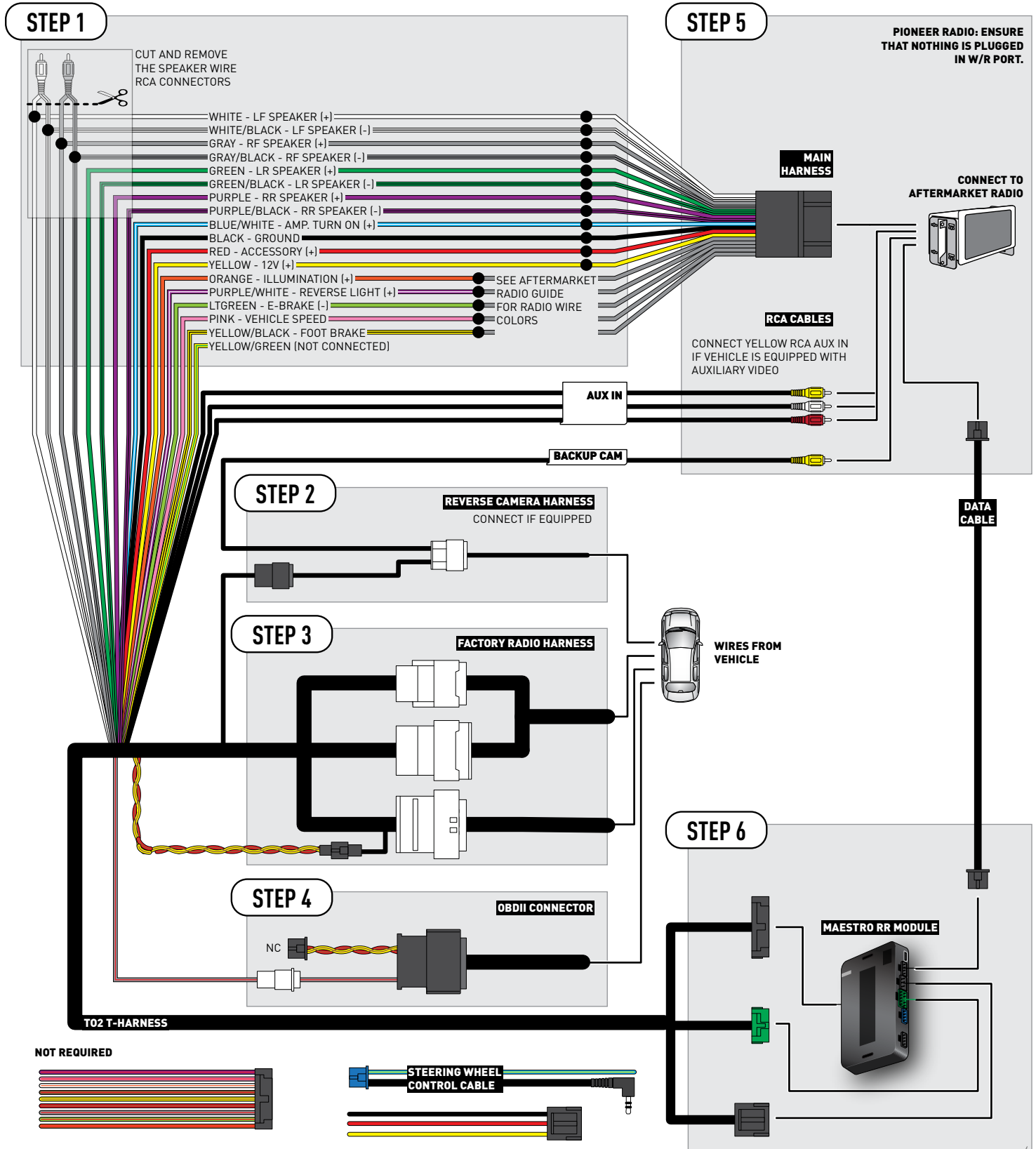
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# WIRING DIAGRAM



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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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
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2015-2019

TOYOTA PRIUS

WITH NAV WITHOUT JBL

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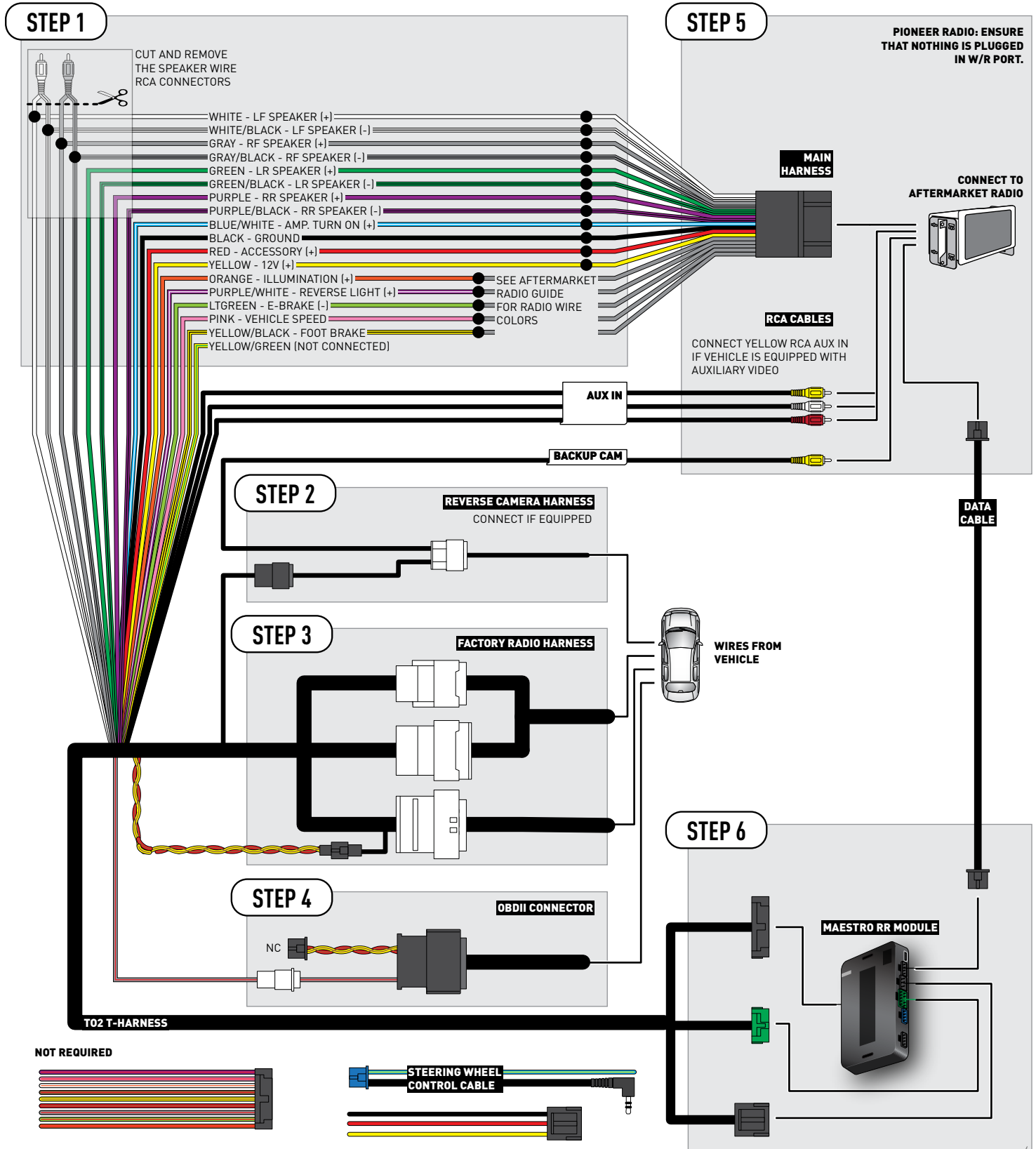
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2013-2018

TOYOTA RAV 4

WITH FACTORY 6.1 INCH SCREEN

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



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# NEED HELP?

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[www.12voltdata.com/forum](https://www.12voltdata.com/forum)

# INSTALLATION INSTRUCTIONS

## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker RCA connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

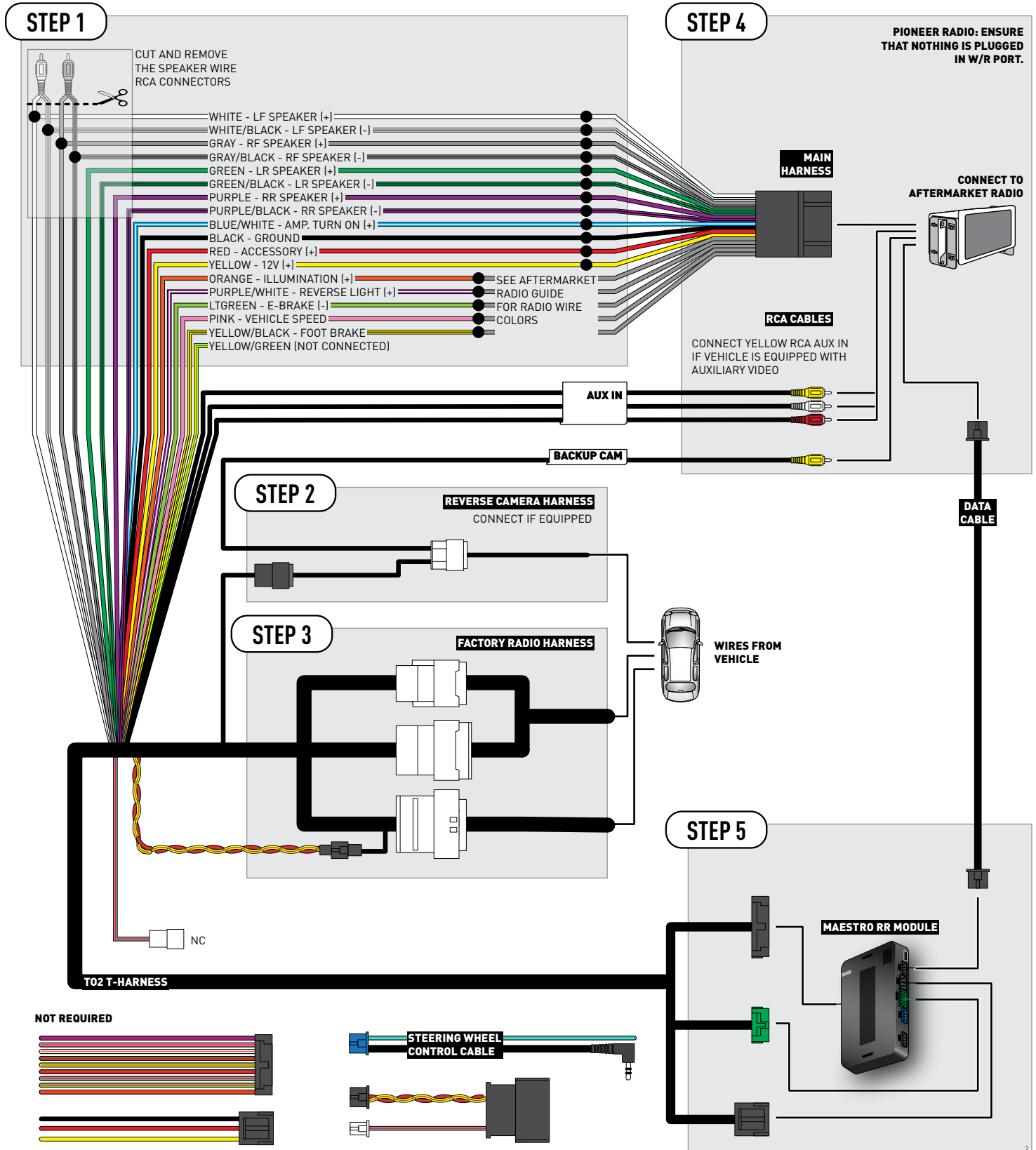
**On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

**For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen.**

## STEP 5

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

# WIRING DIAGRAM



# 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



# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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.**

2013-2018

TOYOTA RAV 4

WITH FACTORY 6.1 INCH SCREEN AND JBL

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



## PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface  
iDatalink Maestro HRN-RR-TO2 Installation Harness

## PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

## ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

## OPTIONAL ACCESSORIES

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

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# WELCOME

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## STEP 1

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- Connect the wires shown on the next page from aftermarket radio main harness to the T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

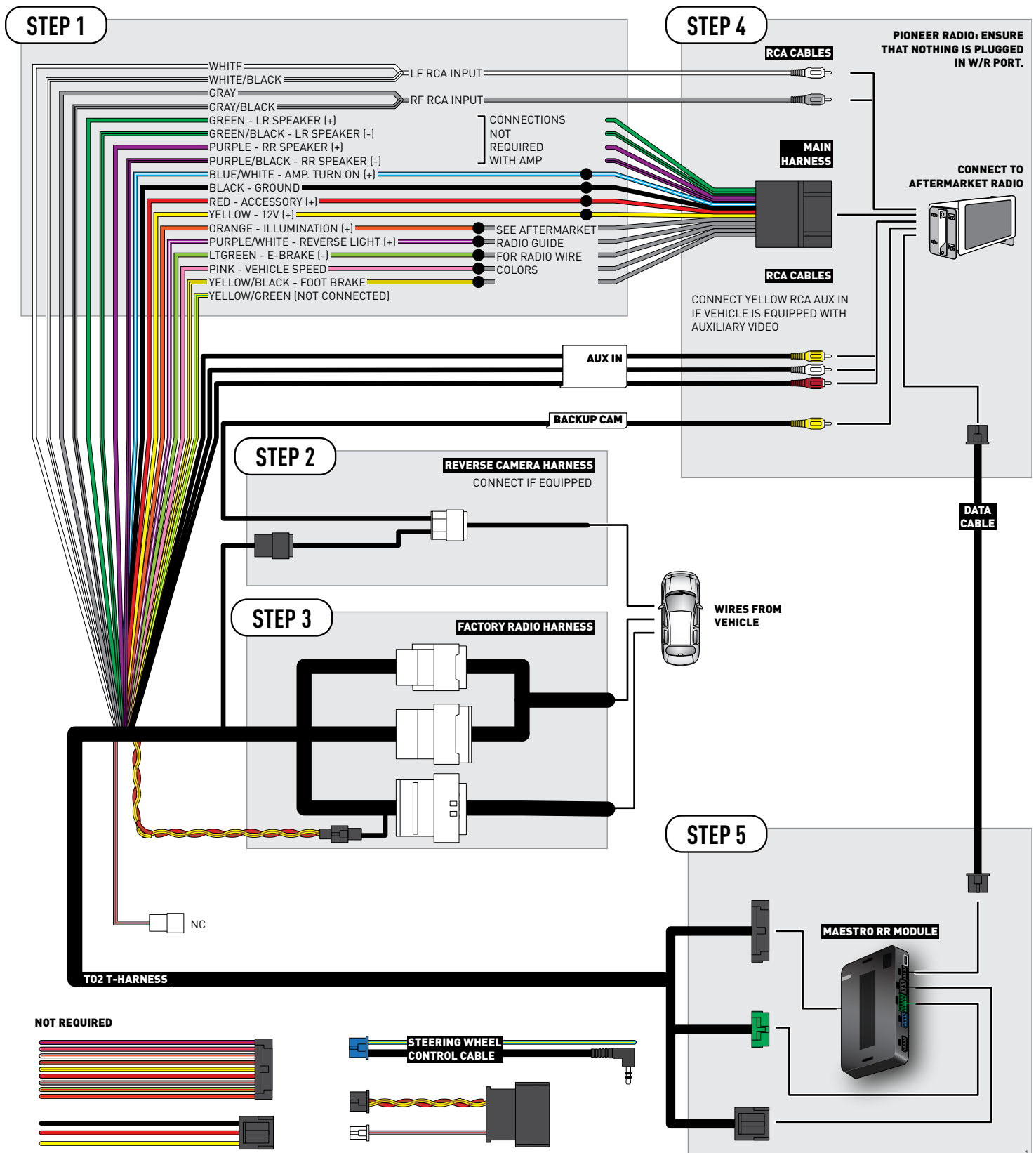
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## STEP 5

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

# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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 HRN-RR-TO2 Installation Harness

#### PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

#### ADDITIONAL RESOURCES

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#### OPTIONAL ACCESSORIES



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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 T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Unplug the Black 2 pin connector near the 28 Pin connector of the T02 T-harness.
- Plug the Black 2 pin connector of the T02 T-harness into the Black 2 pin connector on the OBDII harness.
- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## 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.

### Notes

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

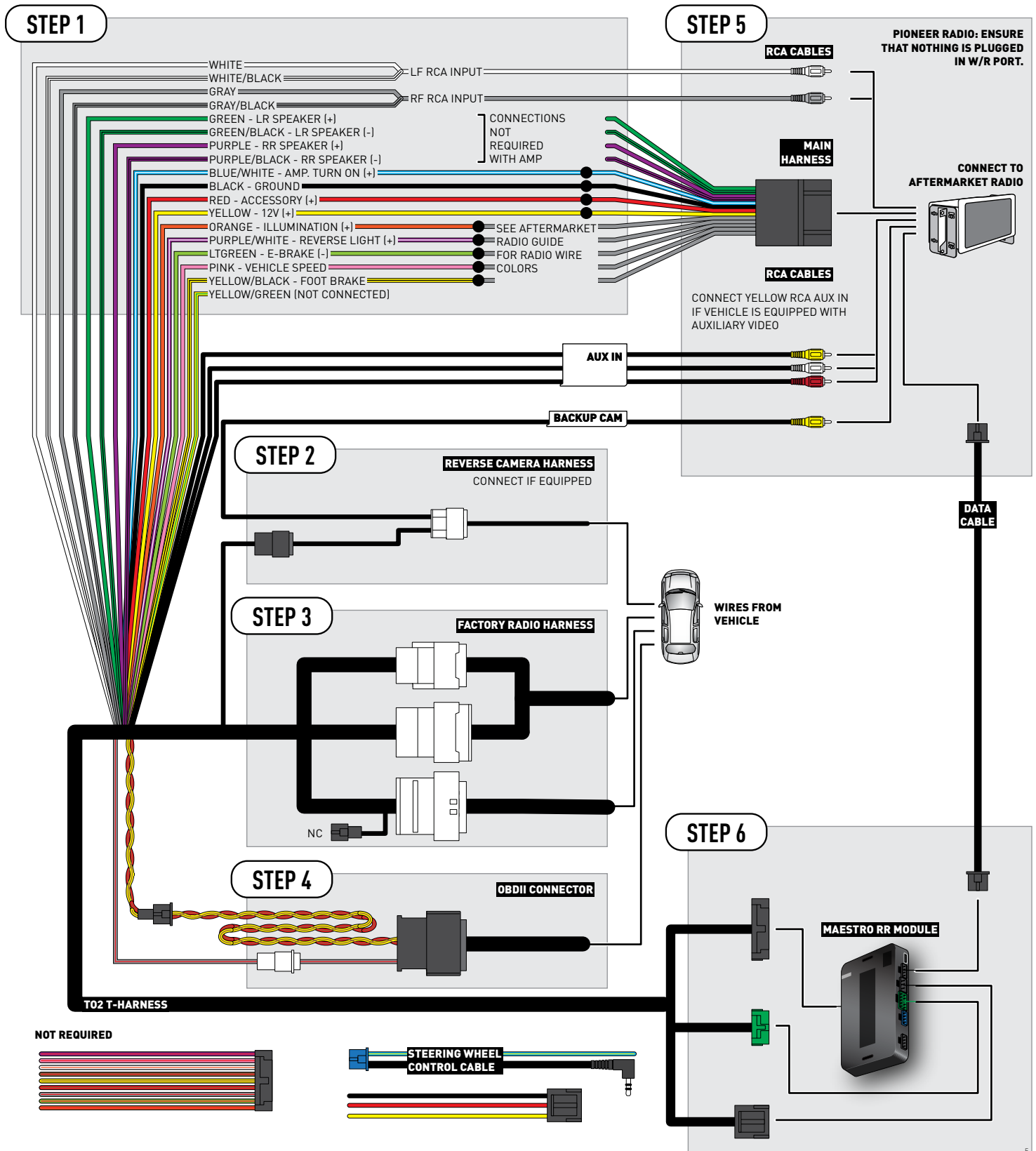
**For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system,**

**plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen.**

## STEP 6

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

# WIRING DIAGRAM



# 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

# 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>
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and 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 ONCE</b> .	There is no firmware on the module; flash the RR module.

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

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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#### PROGRAMMED FIRMWARE

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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 T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- 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.

### Notes

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

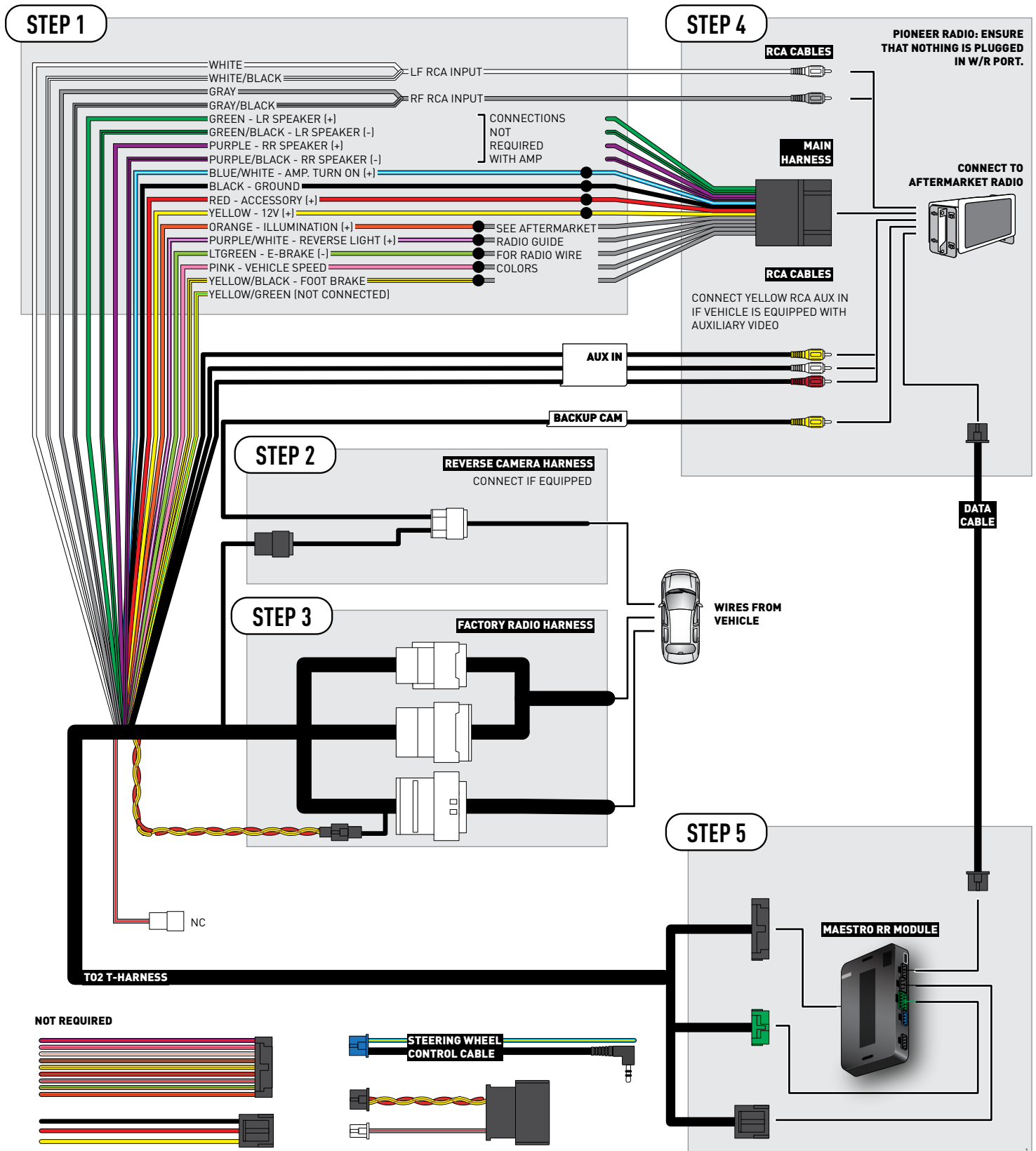
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## STEP 5

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



# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## 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.

### Notes

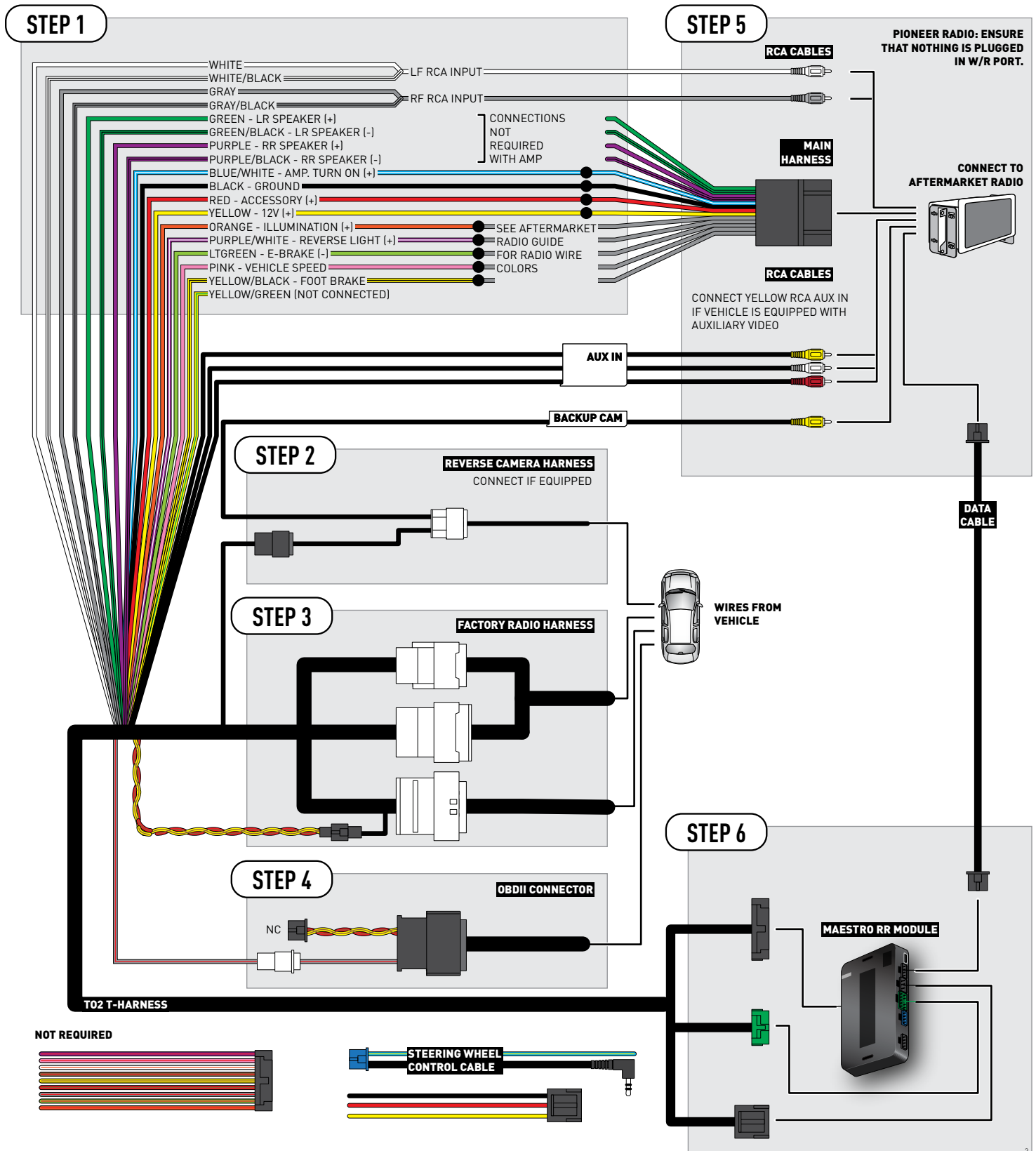
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## STEP 6

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# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
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The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

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



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## STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker RCA connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T02 T-harness and match the wire functions.
- Remove the factory radio.

**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## 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.

### Notes

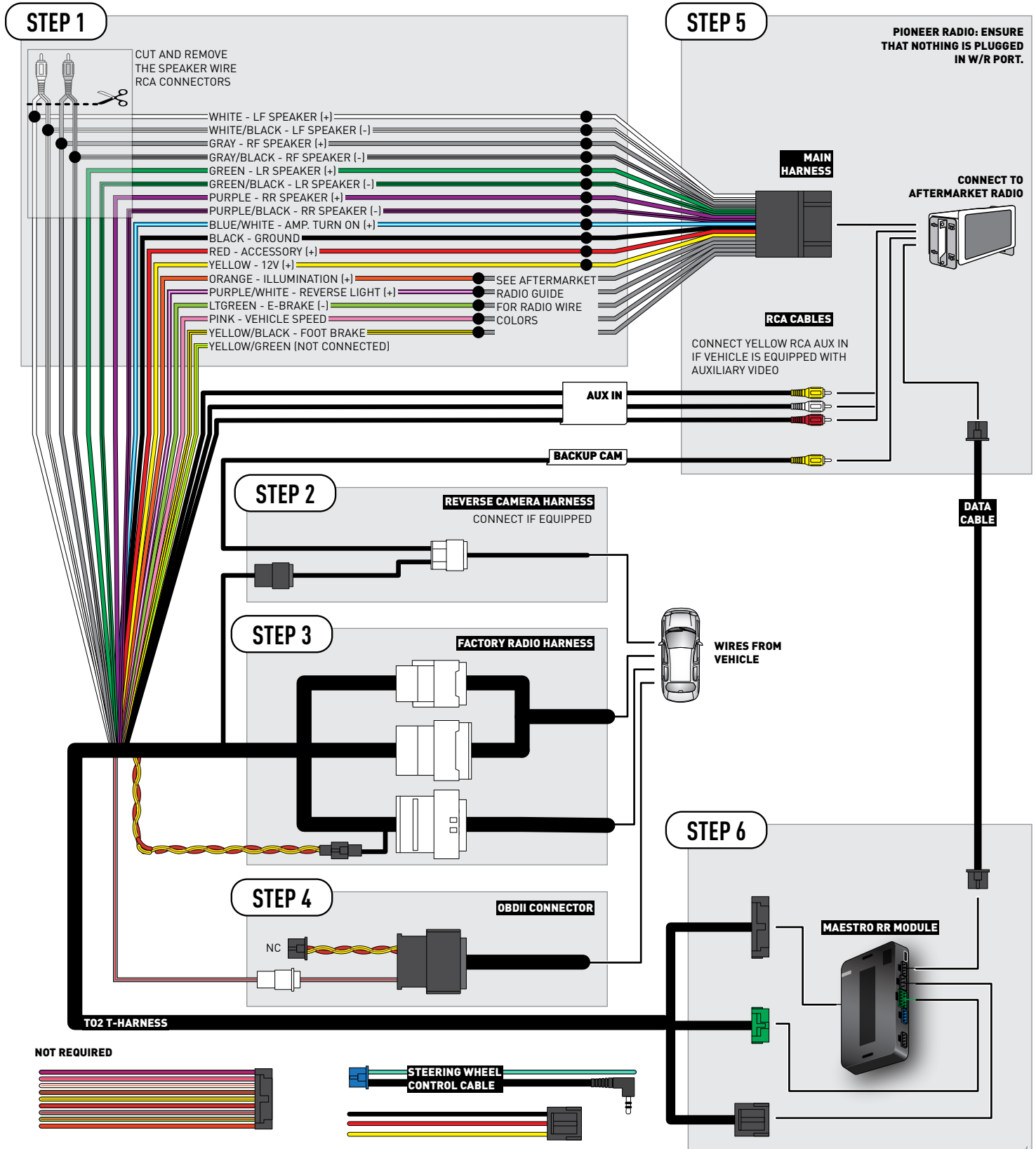
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## STEP 6

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

# WIRING DIAGRAM



# 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

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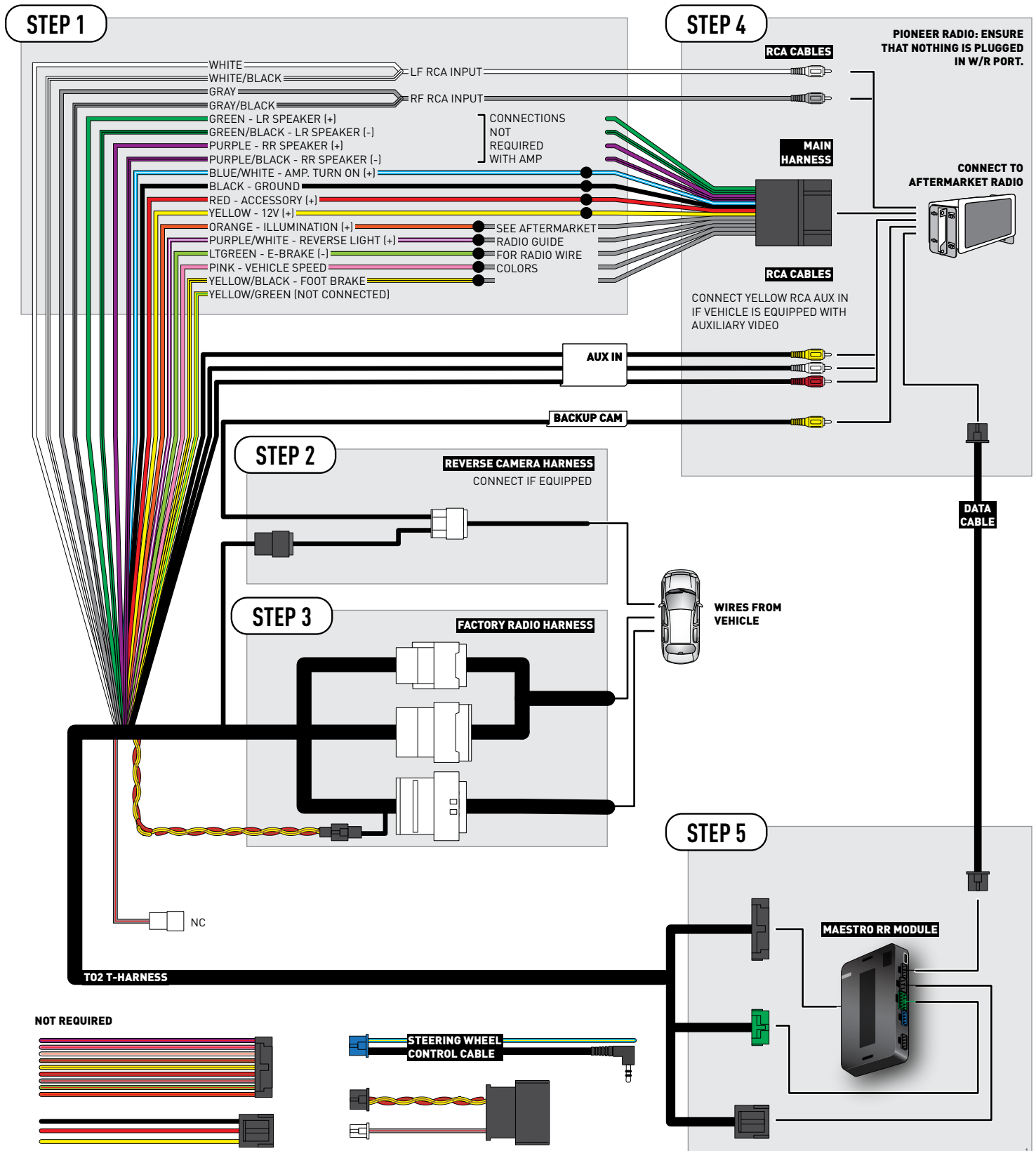
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## STEP 5

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

# WIRING DIAGRAM



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## STEP 2

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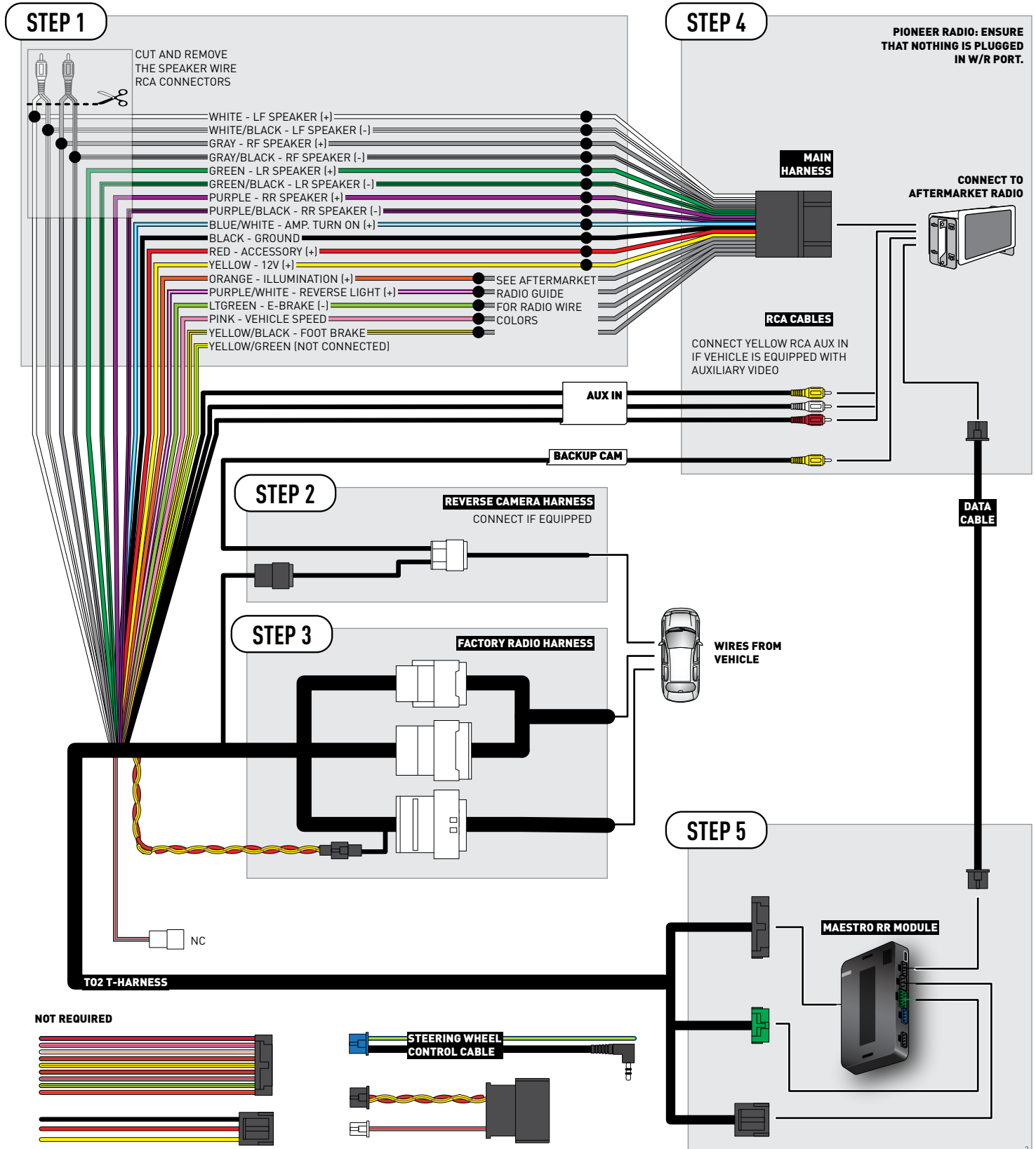
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## STEP 5

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



# WIRING DIAGRAM



# RADIO WIRE REFERENCE CHART

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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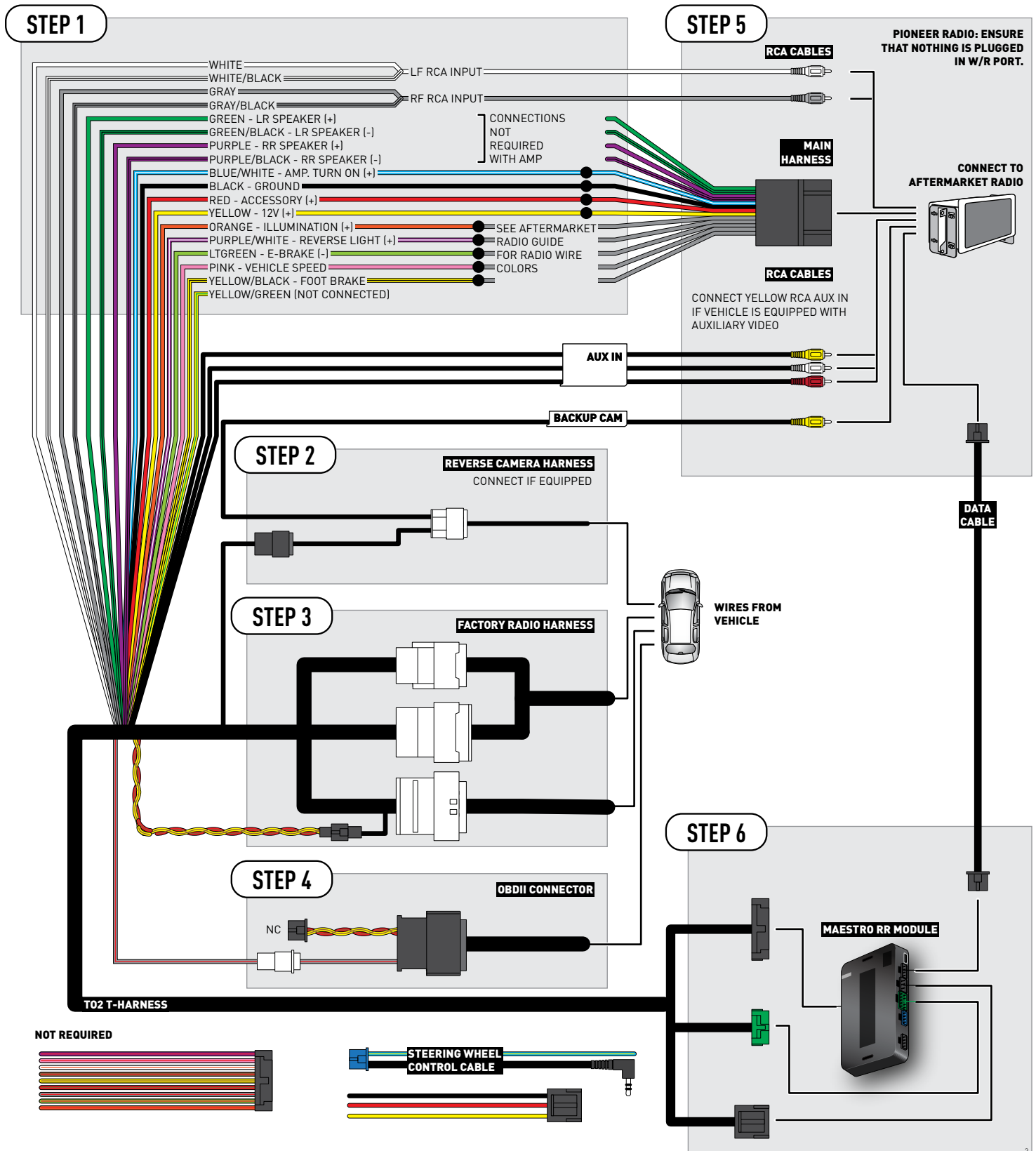
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**For vehicles with bird's eye view: to retain this system, connect Yellow/Green wire from T02 T-Harness to the radio's Purple/White wire.**

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## 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.

### Notes

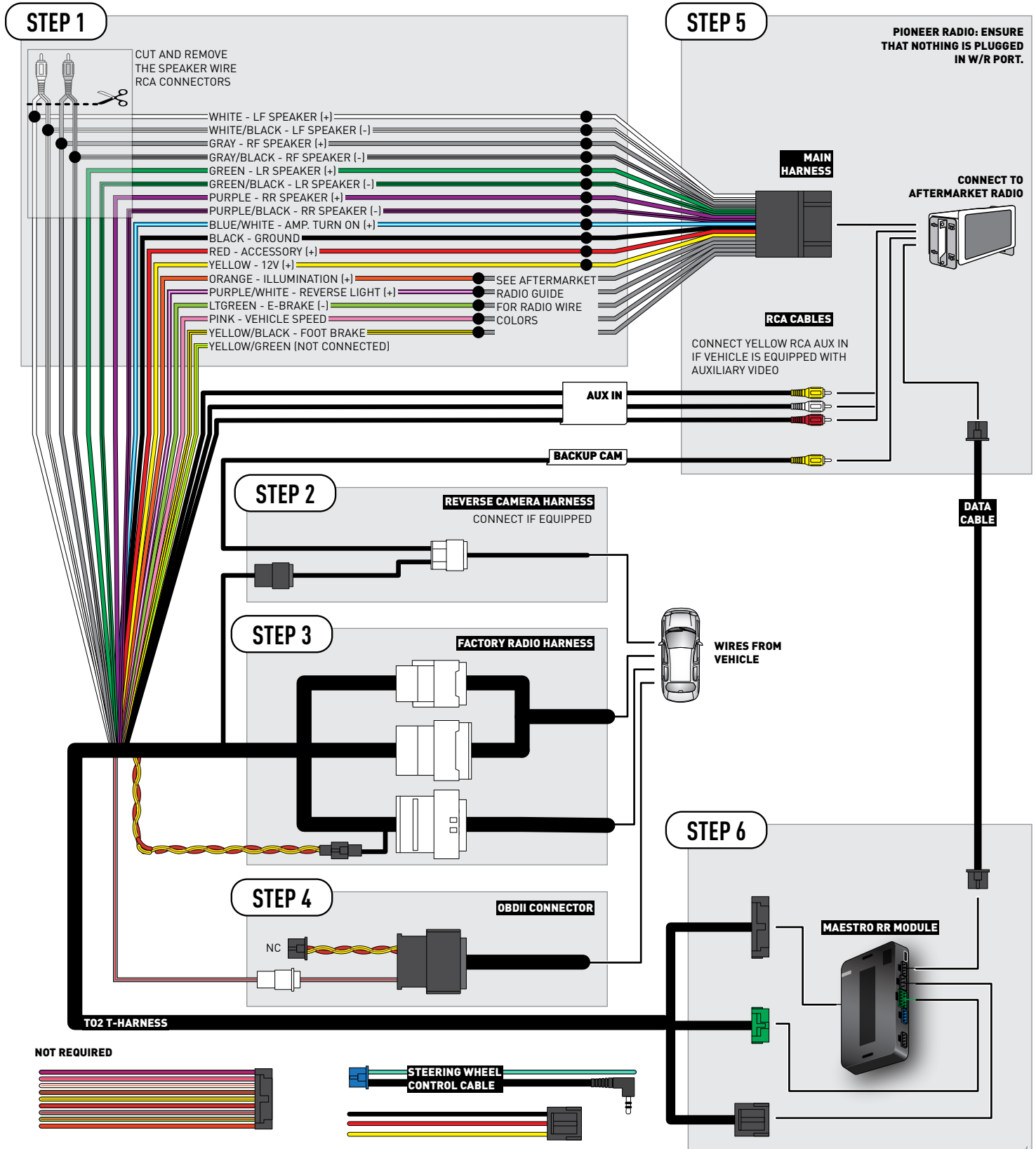
**On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

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## STEP 6

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

# WIRING DIAGRAM



# 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

# TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR.  If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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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iDataLink Maestro HRN-RR-TO2 Installation Harness

## PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY02-DS

## ADDITIONAL RESOURCES

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- Cut and remove the front speaker RCA connectors.
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- Remove the factory radio.

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## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

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### Notes

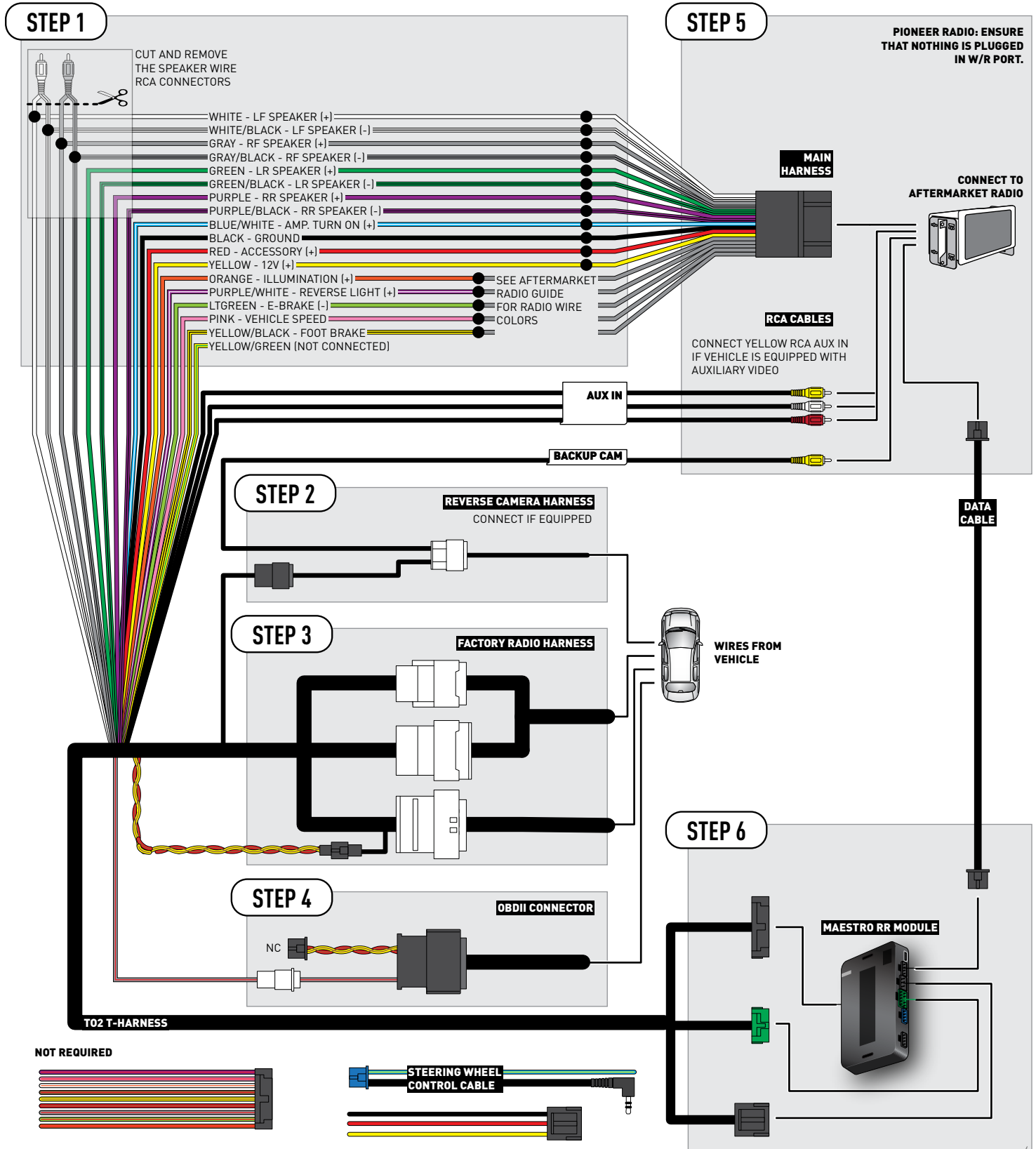
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- Connect all the harnesses to the Maestro RR module then test your installation.

# WIRING DIAGRAM



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Reverse Light	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
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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The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

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## PROGRAMMED FIRMWARE

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- If the vehicle is equipped with an OEM backup camera, connect the T02 T-harness to the backup camera harness.

## STEP 3

- Connect the factory harness to the T02 T-harness.

## STEP 4

- Plug the male WHITE 2 pin connector of your T02 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the aftermarket radio harnesses into the aftermarket radio.
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### Notes

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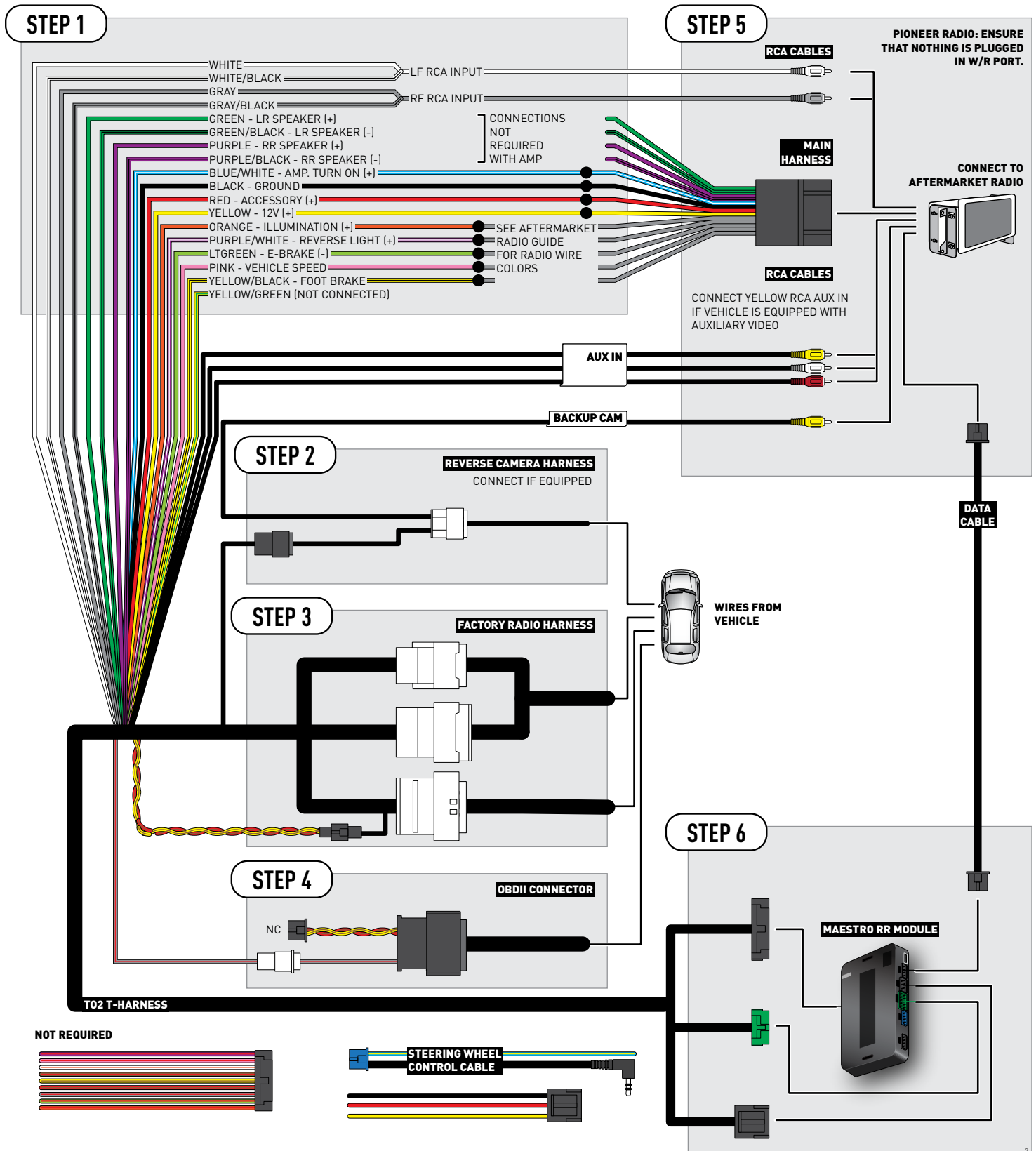
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# WIRING DIAGRAM



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

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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2.  Reset the RR.
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## PROGRAMMED FIRMWARE

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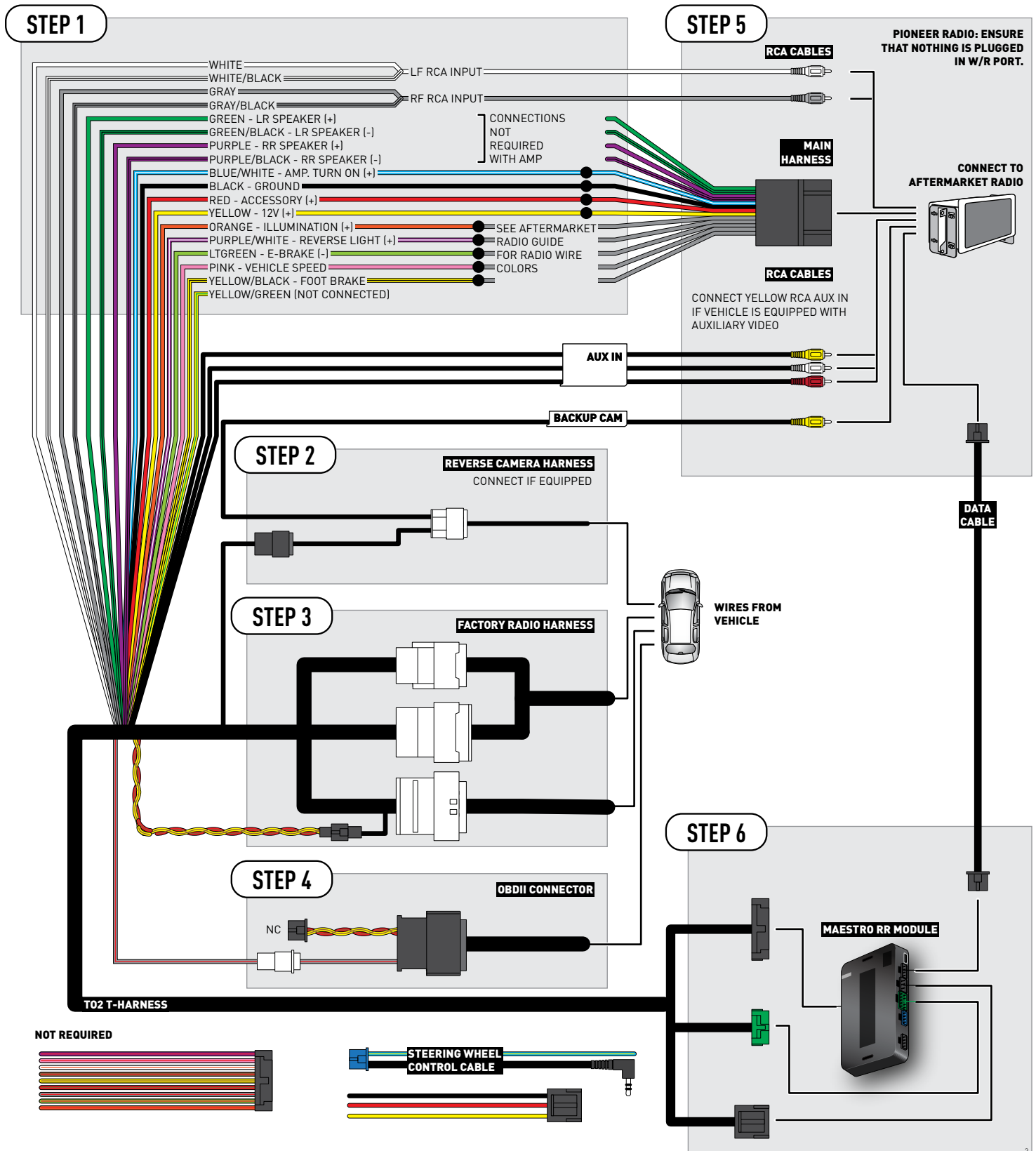
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# WIRING DIAGRAM



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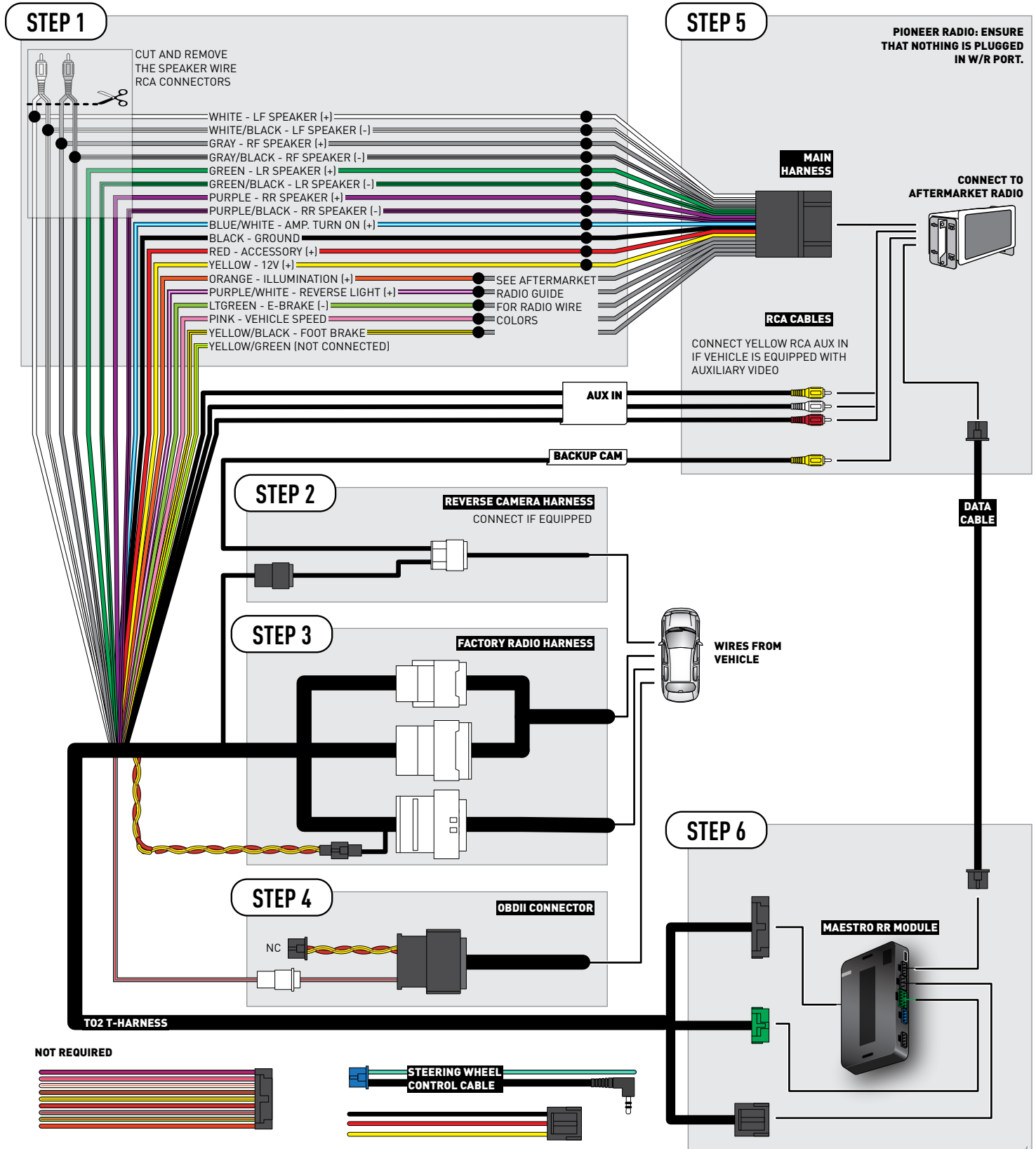
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TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	If installing a floating screen type radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error.
The radio is turning ON and the light on the Maestro is blinking <b>RED TWICE</b> .	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.  Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is flashing <b>RED ONCE</b> .	There is no firmware on the module; flash the RR module.

## 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.12voldata.com/forum/](http://www.12voldata.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.