



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, BACKUP CAMERA, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-TO3 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-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

 maestro.support@idatalink.com

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

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| Wiring Diagram | 4 |
| Radio Wire Reference Chart | 5 |
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INSTALLATION INSTRUCTIONS P1/1

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 T03 T-harness and match the wire functions.
- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

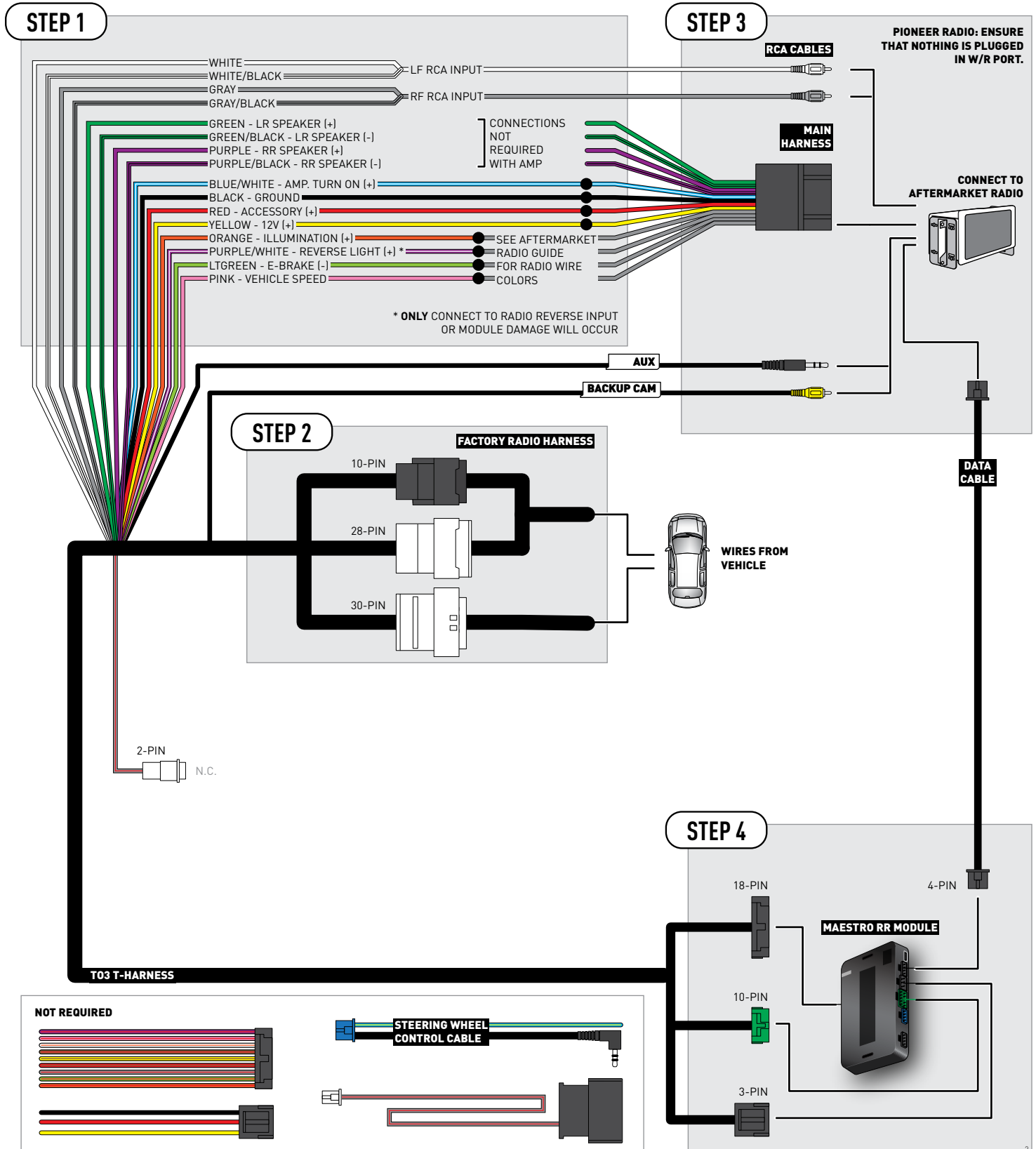
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *with JBL*













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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker wire junction connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

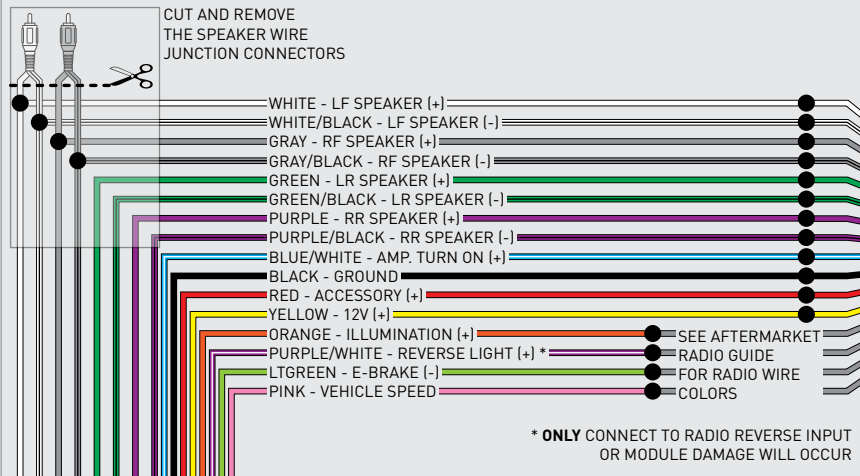
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

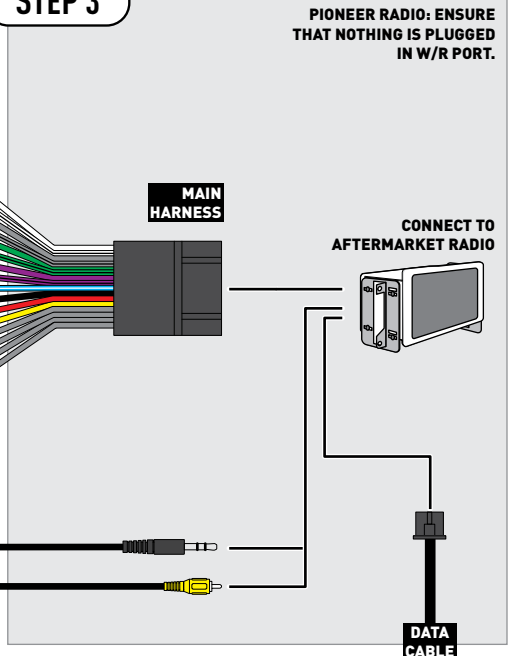
Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM *without JBL*

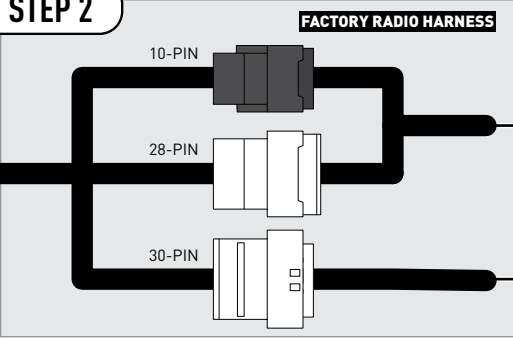
STEP 1



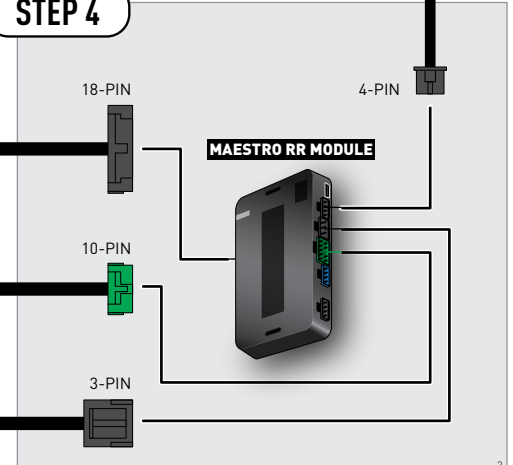
STEP 3



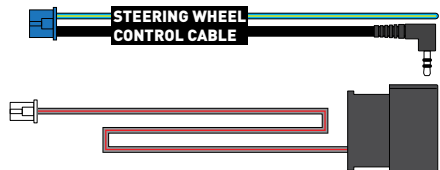
STEP 2



STEP 4



NOT REQUIRED



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
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| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
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MAESTRO RR RESET PROCEDURE:

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

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

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STEP 2

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SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

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(select vehicles/optional feature — activate 4LO and press the camera button to access):

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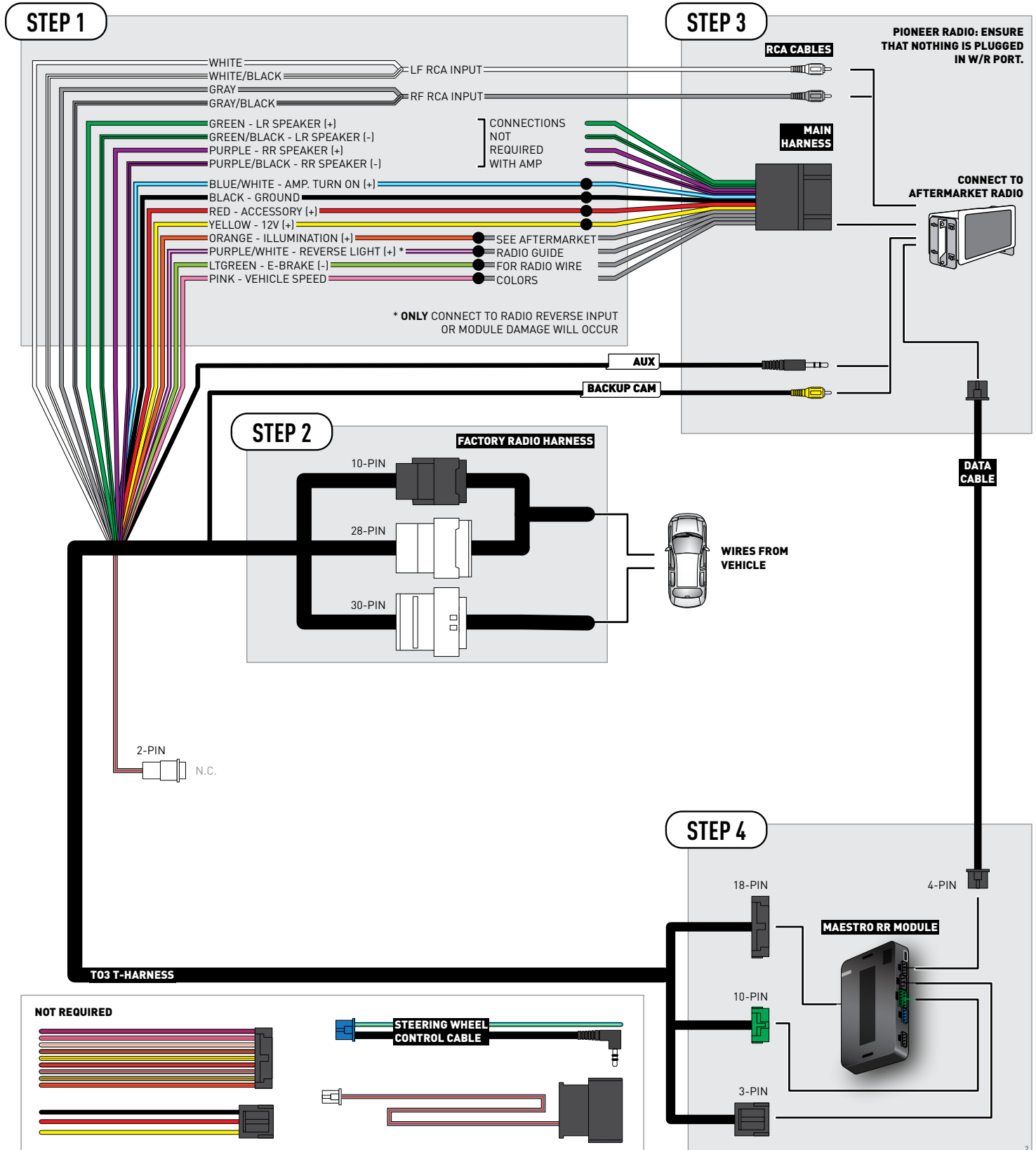
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WIRING DIAGRAM *with JBL*



RADIO WIRE REFERENCE CHART

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| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
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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. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
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 maestro.support@idatalink.com

 maestro.idatalink.com/support
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker wire junction connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

MODE - Change view

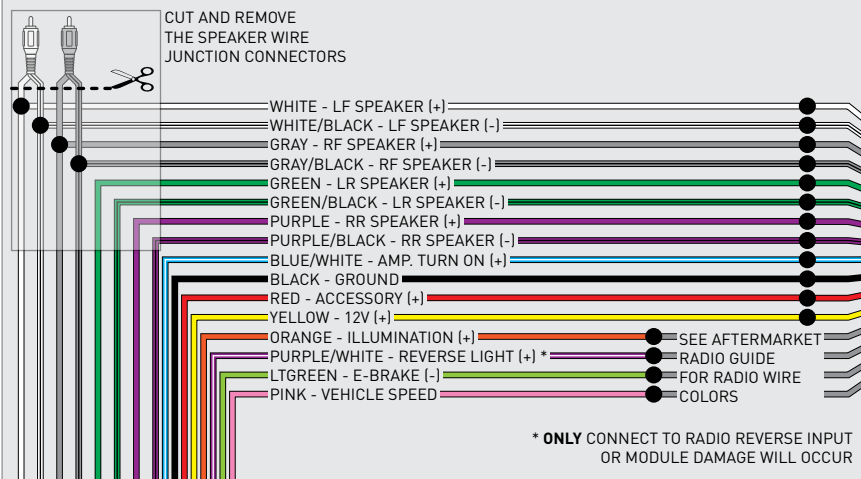
SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

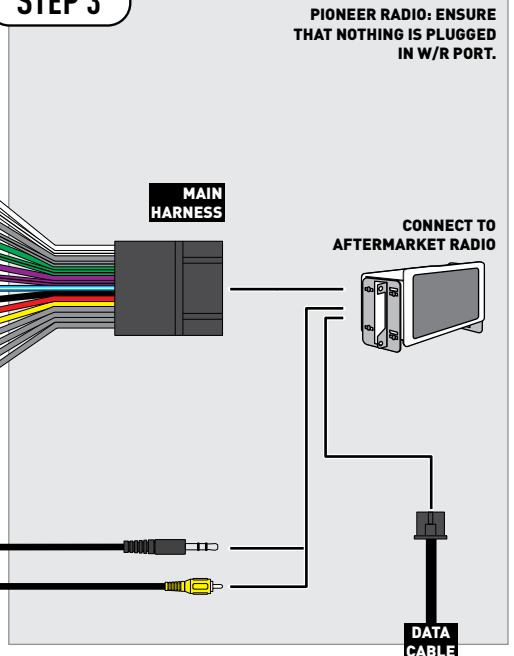
Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM *without JBL*

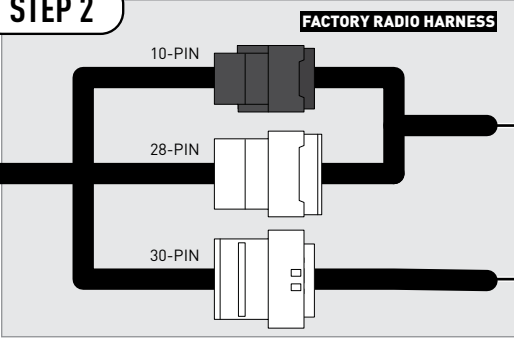
STEP 1



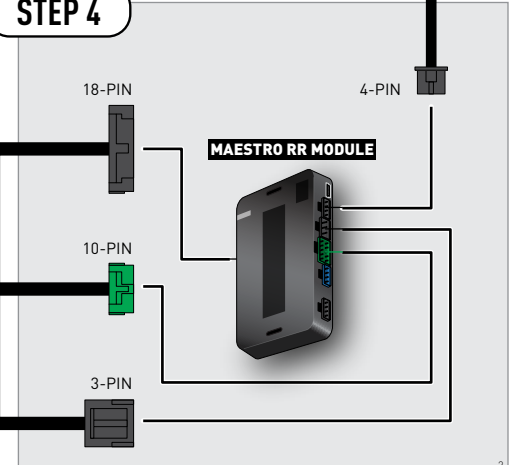
STEP 3



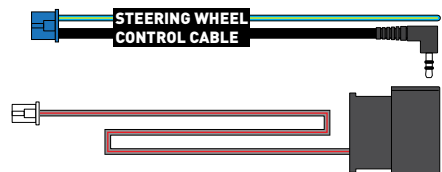
STEP 2



STEP 4



NOT REQUIRED














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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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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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.

2018

TOYOTA C-HR

WITH CARPLAY WITH JBL

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-TO3 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

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.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

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REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

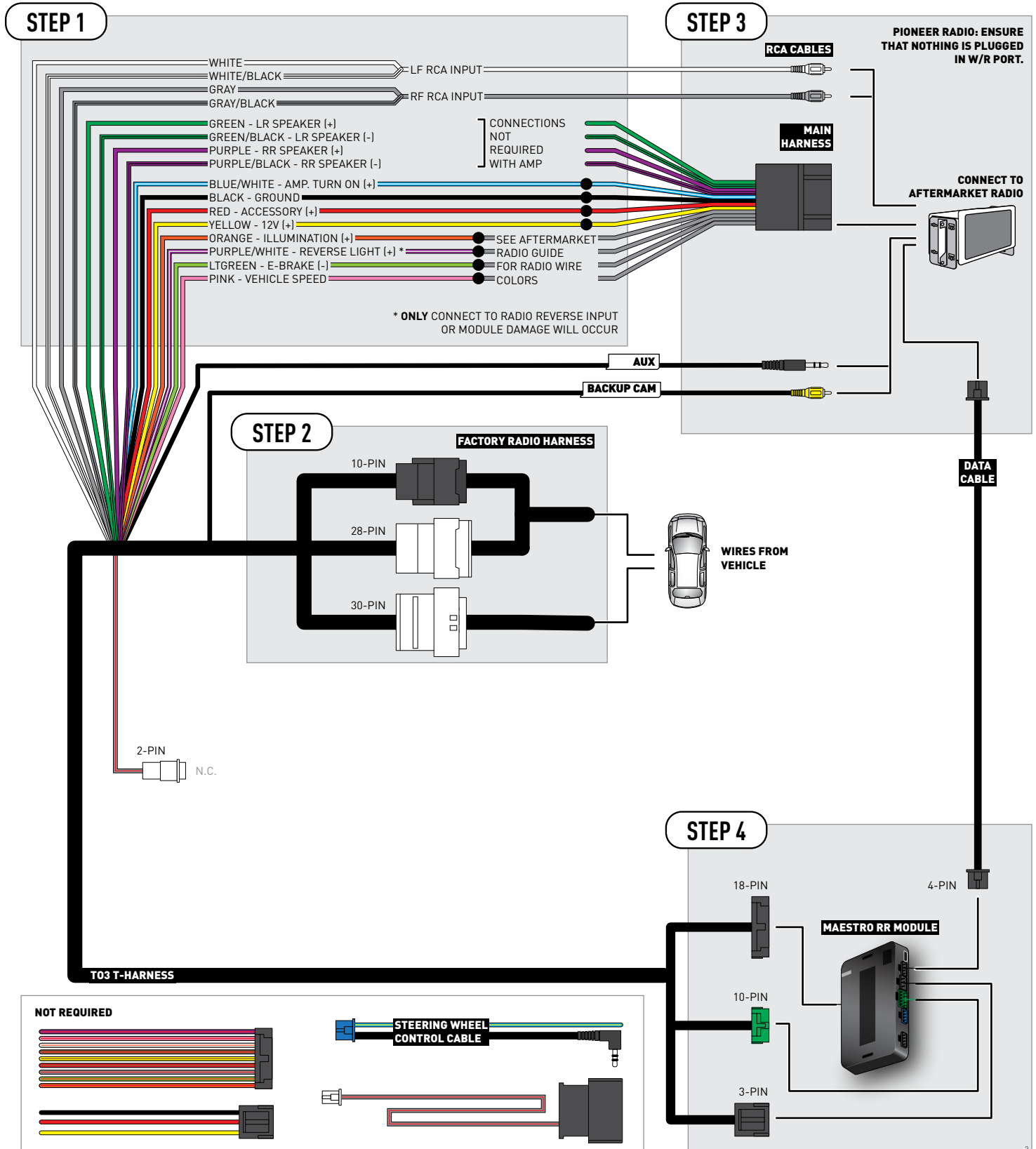
MODE - Change view

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Note: 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

WIRING DIAGRAM *with JBL*



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

WITH CARPLAY WITHOUT JBL

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K40[™]
ELECTRONICS
ESCORT

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Note:

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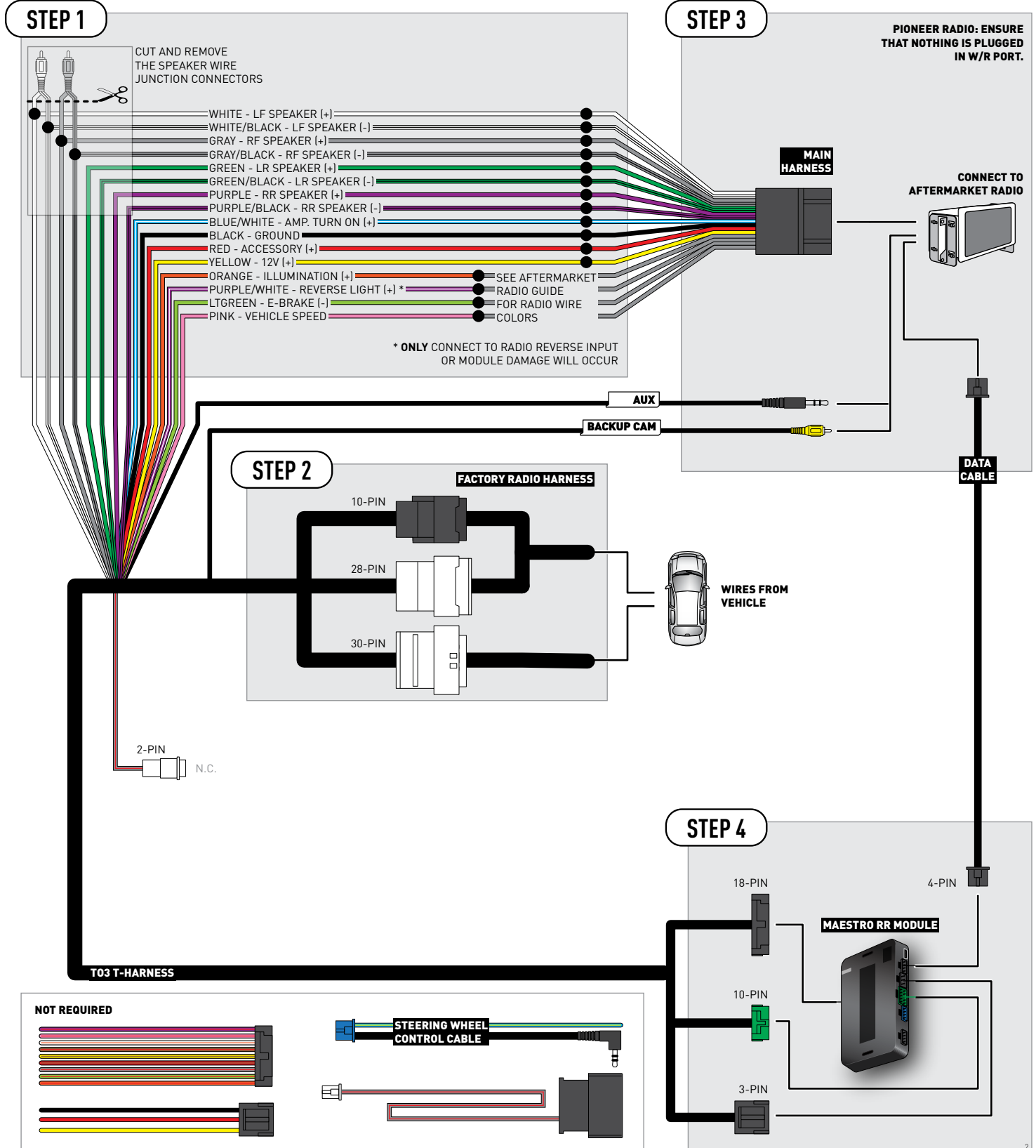
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WIRING DIAGRAM *without JBL*











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- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

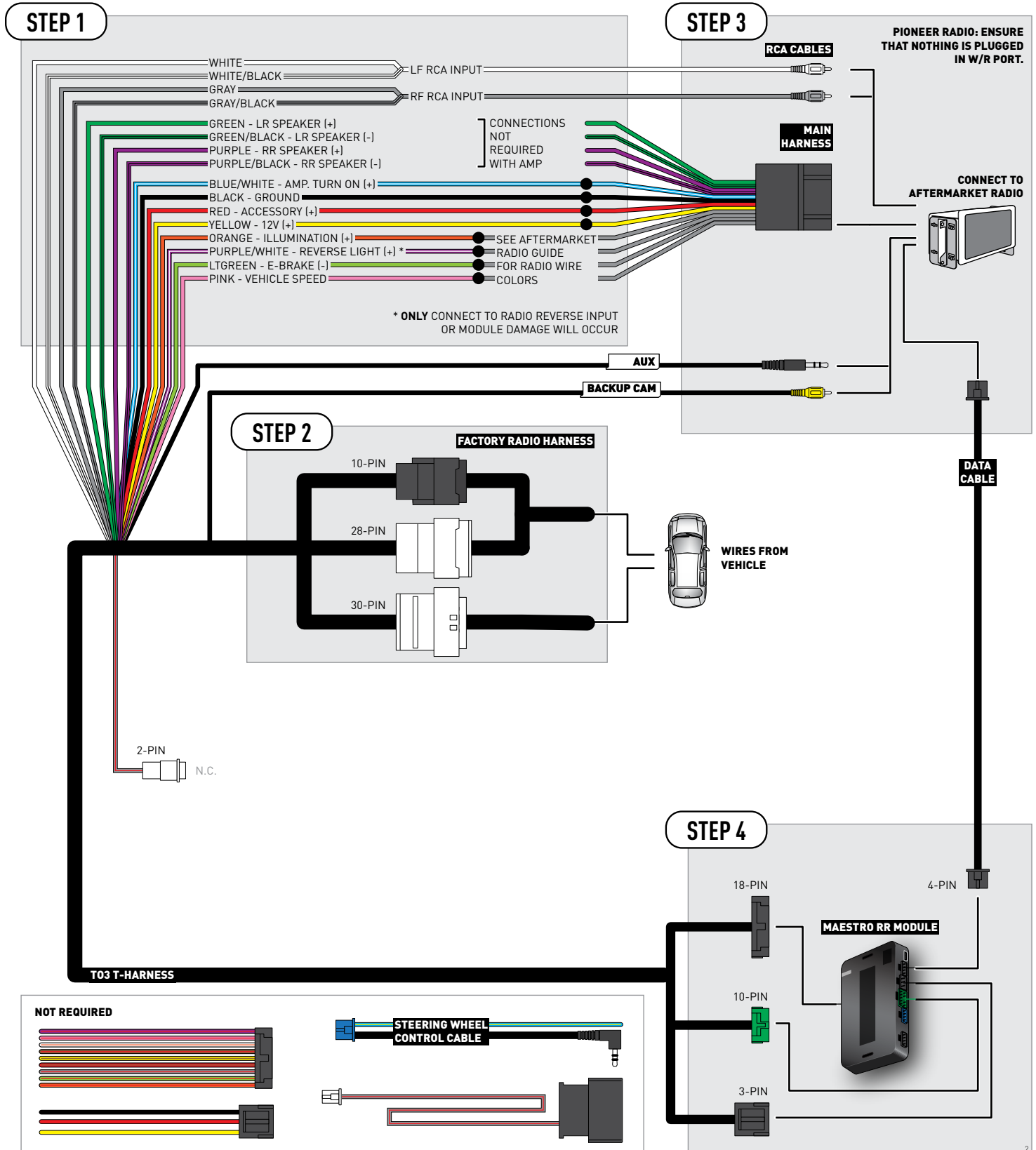
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *with JBL*



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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

Web: maestro.idatalink.com/support add 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, BACKUP CAMERA, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-TO3 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

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.

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

 maestro.idatalink.com/support
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker wire junction connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

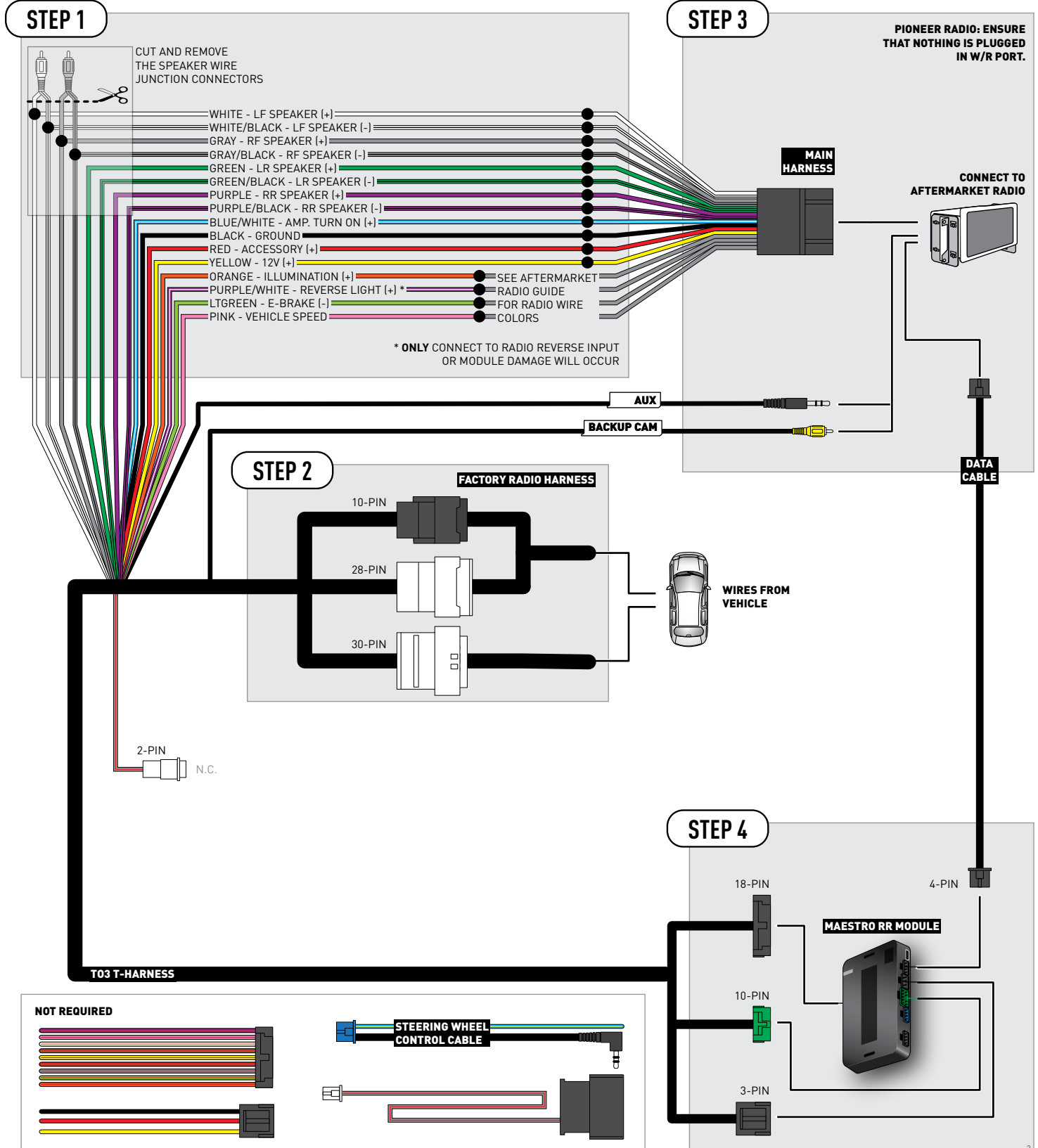
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *without JBL*



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
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| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p> |

MAESTRO RR RESET PROCEDURE:

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

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

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STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

- 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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Note:

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

STEP 4

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

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REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

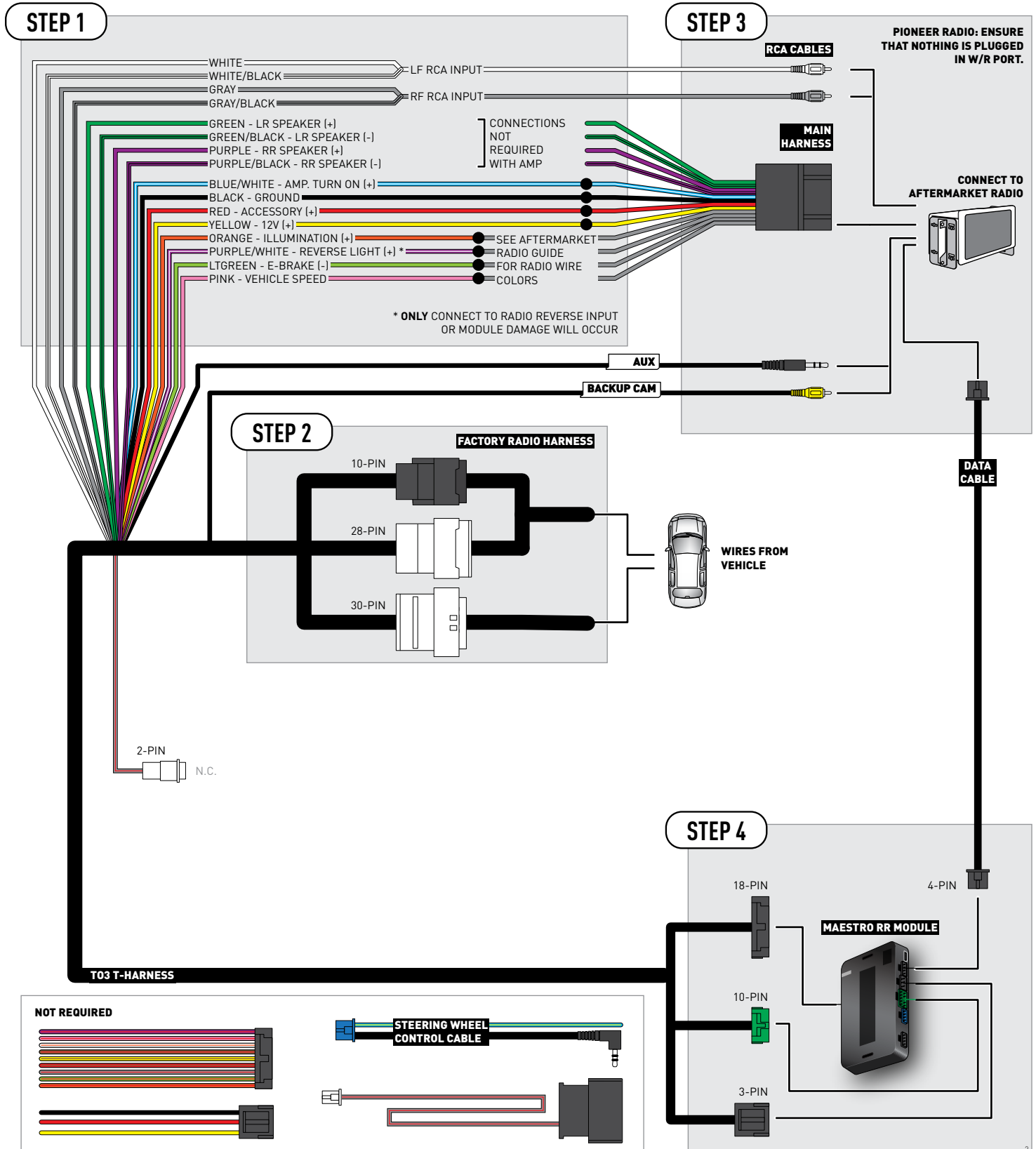
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WIRING DIAGRAM *with JBL*











RADIO WIRE REFERENCE CHART

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Note:

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STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

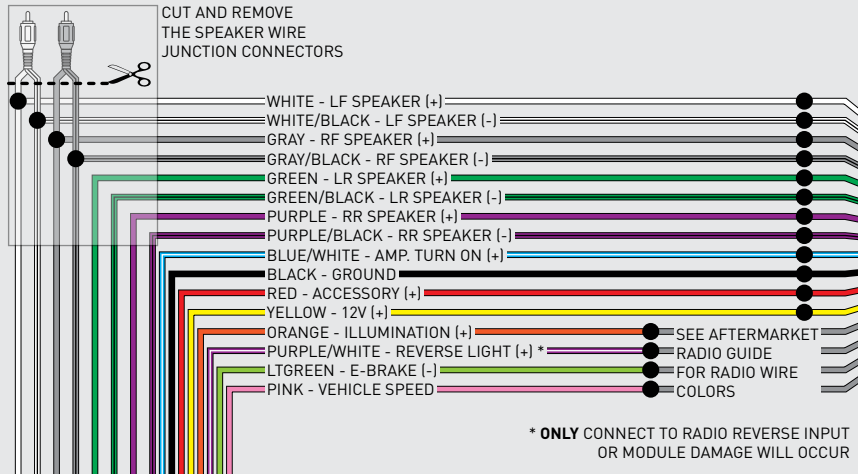
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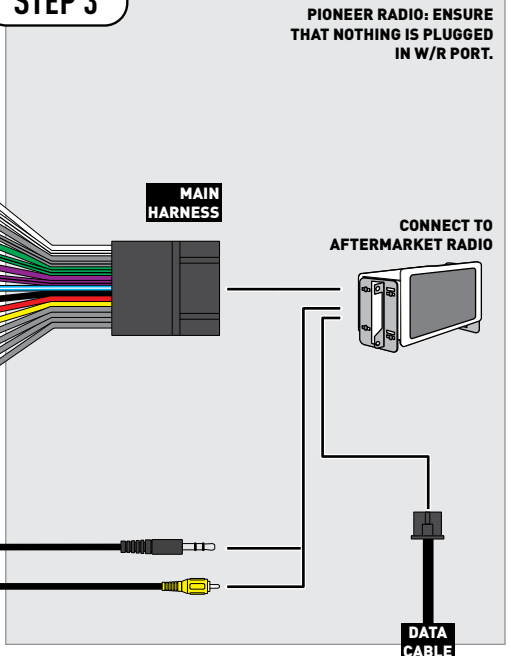
Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM *without JBL*

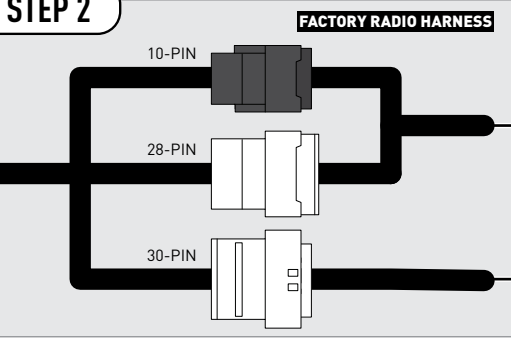
STEP 1



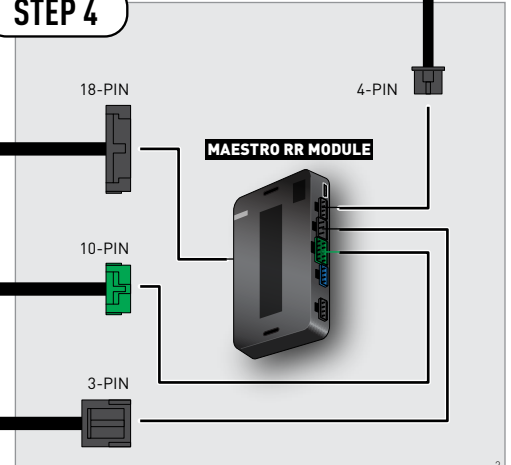
STEP 3



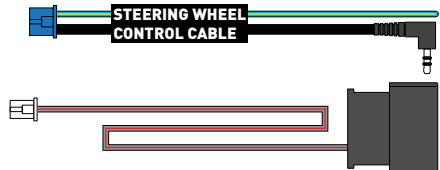
STEP 2



STEP 4



NOT REQUIRED











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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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

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

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

2019-2021

TOYOTA COROLLA HATCHBACK
WITH JBL

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-TO3 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

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


WELCOME

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

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

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

NEED HELP?

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 maestro.support@idatalink.com

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

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| Wiring Diagram | 4 |
| Radio Wire Reference Chart | 5 |
| Module Diagnostics | 6 |
| Troubleshooting Table | 7 |

INSTALLATION INSTRUCTIONS P1/1

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 T03 T-harness and match the wire functions.
- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

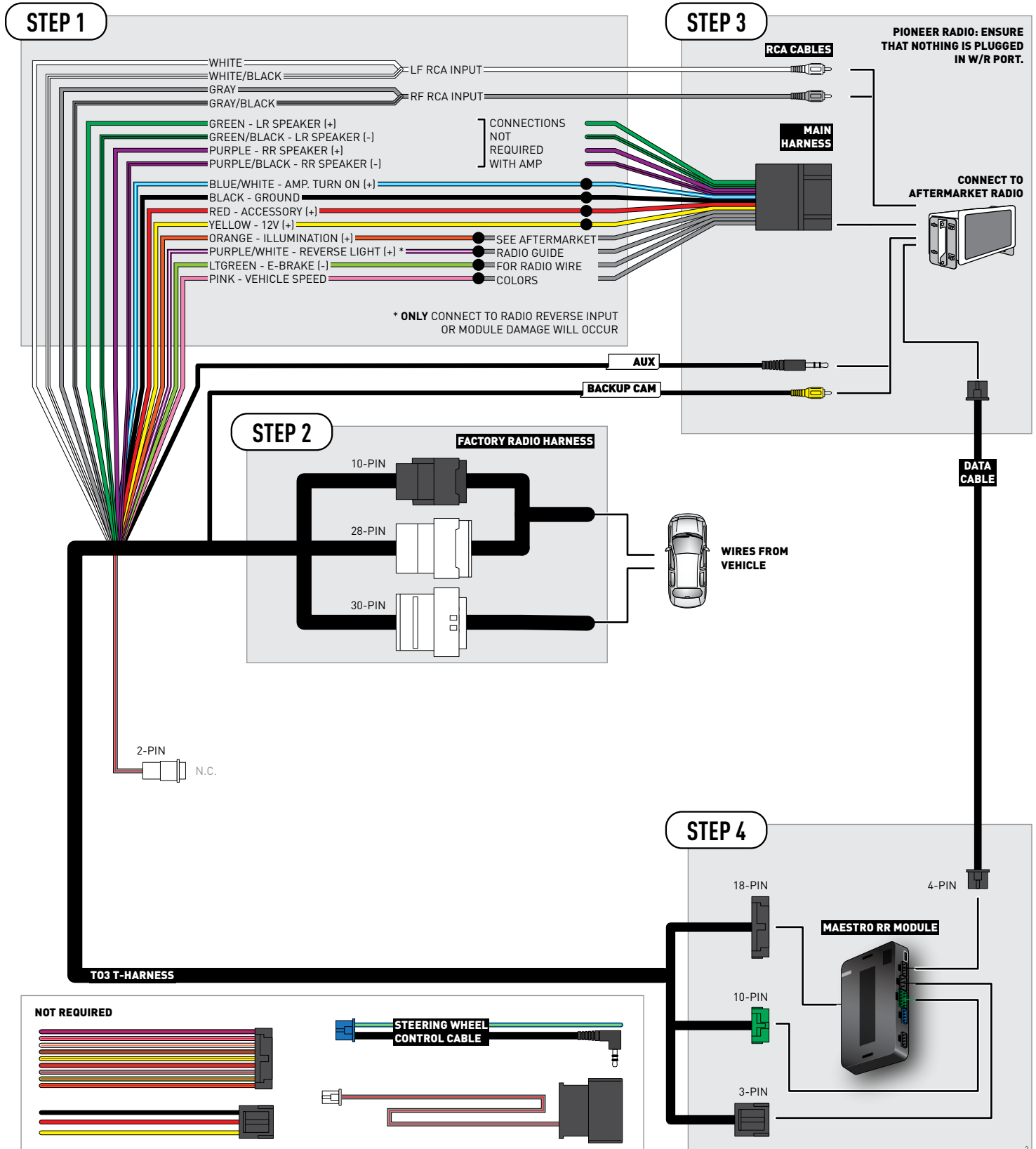
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *with JBL*



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
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| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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, BACKUP CAMERA, AND MORE!



PRODUCTS REQUIRED

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iDatalink Maestro HRN-RR-TO3 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-DS

ADDITIONAL RESOURCES

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OPTIONAL ACCESSORIES



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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker wire junction connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

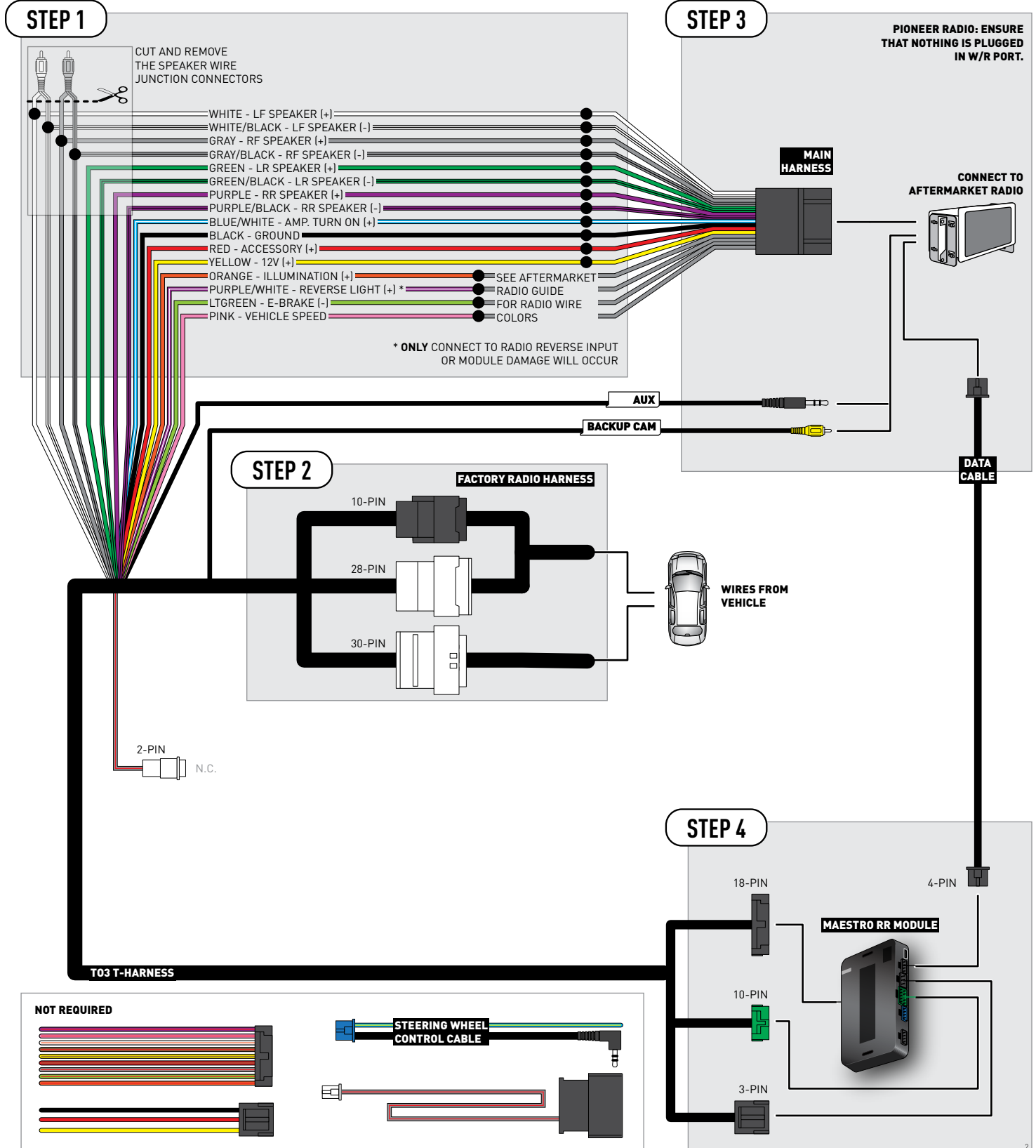
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *without JBL*











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 |

MODULE DIAGNOSTICS



| LED 1 Module/Firmware status | LED 2 (RR2) Bluetooth activity | LED STATUS | DIAGNOSTIC |
|--|---|-----------------------|--|
|  or  | | RED or GREEN flashing | LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation. |
|  | | 1 RED flash | Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE. |
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| | | |
|------------------------------|---|--|
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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. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
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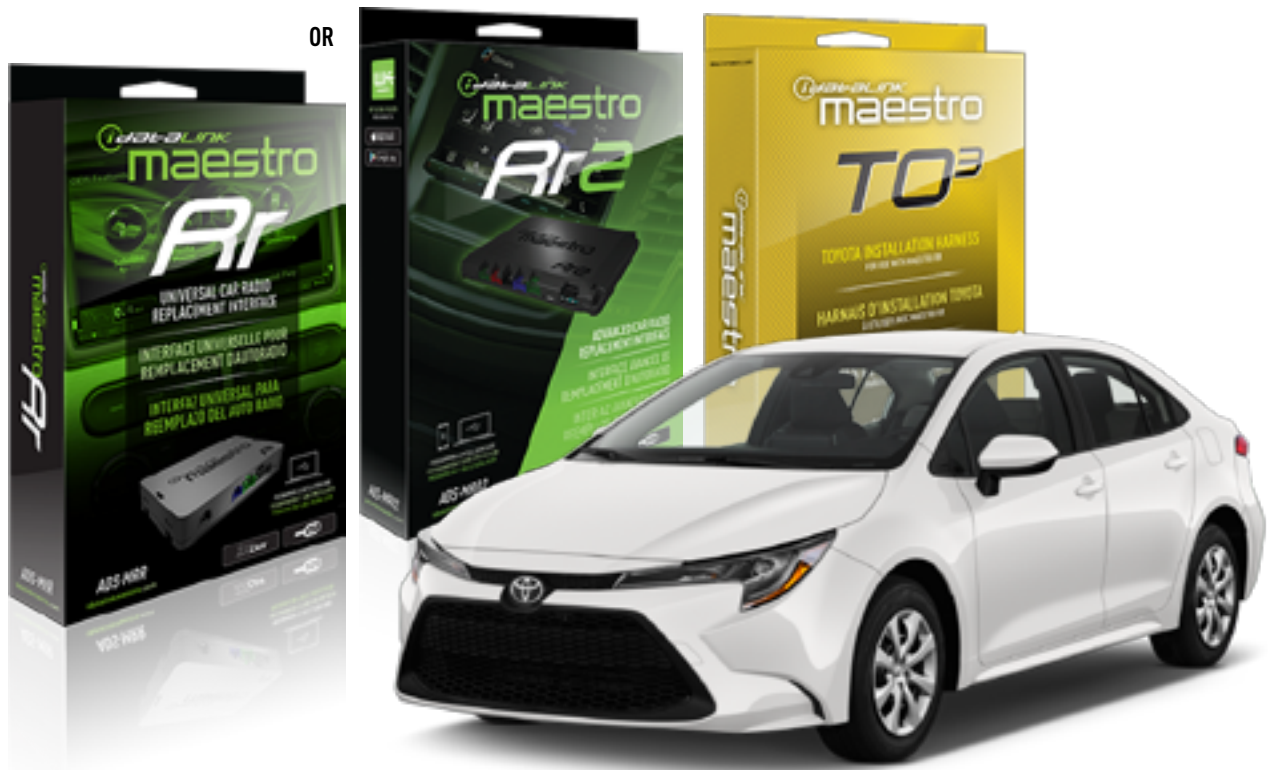
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STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

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SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

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(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

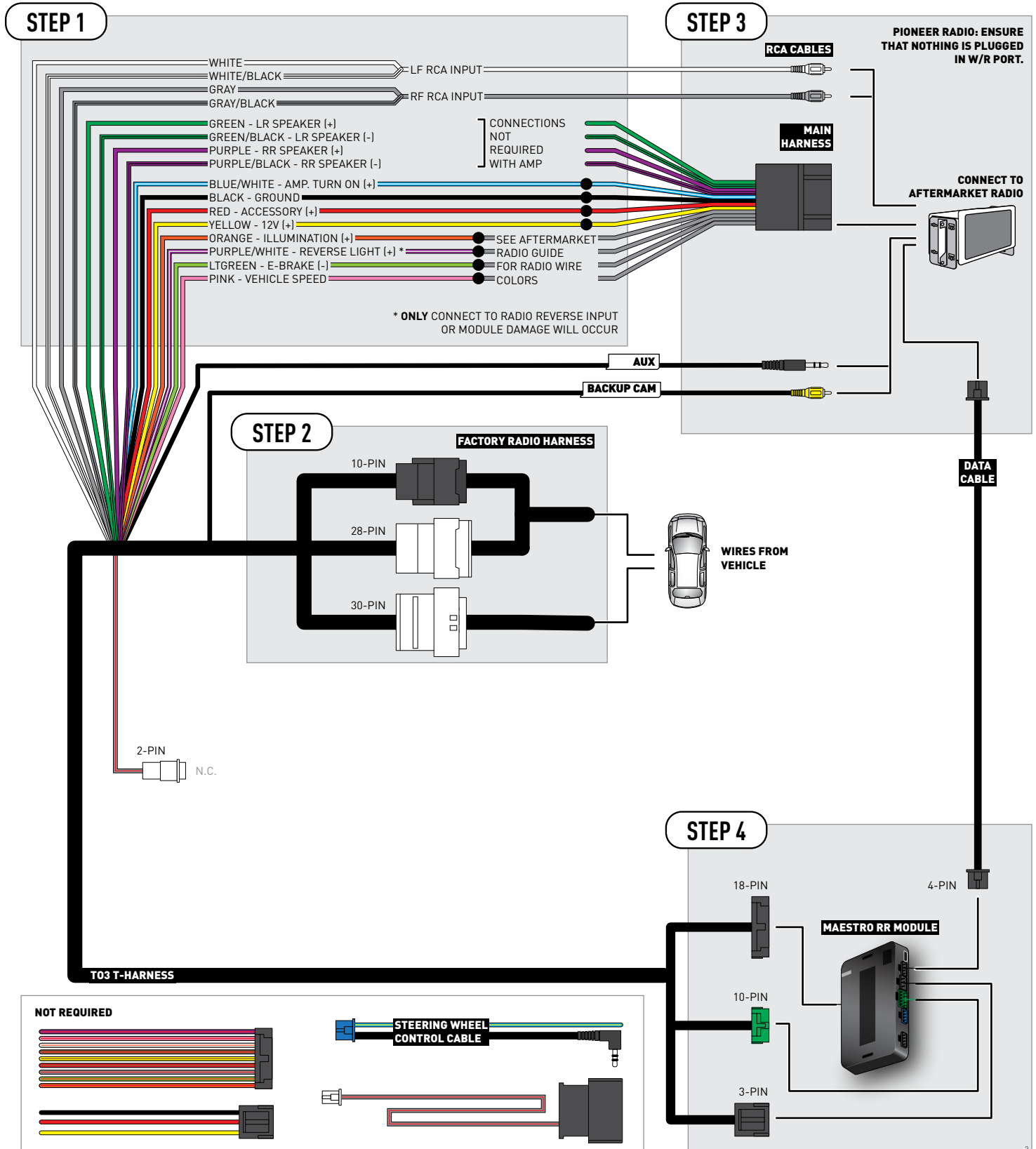
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WIRING DIAGRAM *with JBL*



RADIO WIRE REFERENCE CHART

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| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
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| LED 1 Module/Firmware status | LED 2 (RR2) Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| | | 3 GREEN flashes | Bluetooth is activated. Turns off after one minute: Normal operation. |
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| | | |
|------------------------------|--|--|
| VIDEO HELP | | Installation, product information, vehicle specific videos. |
| VERIFY FLASH | | Last flash information, steering control configuration, vehicle information. |
| WEBLINK | | Software to program module. |

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
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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

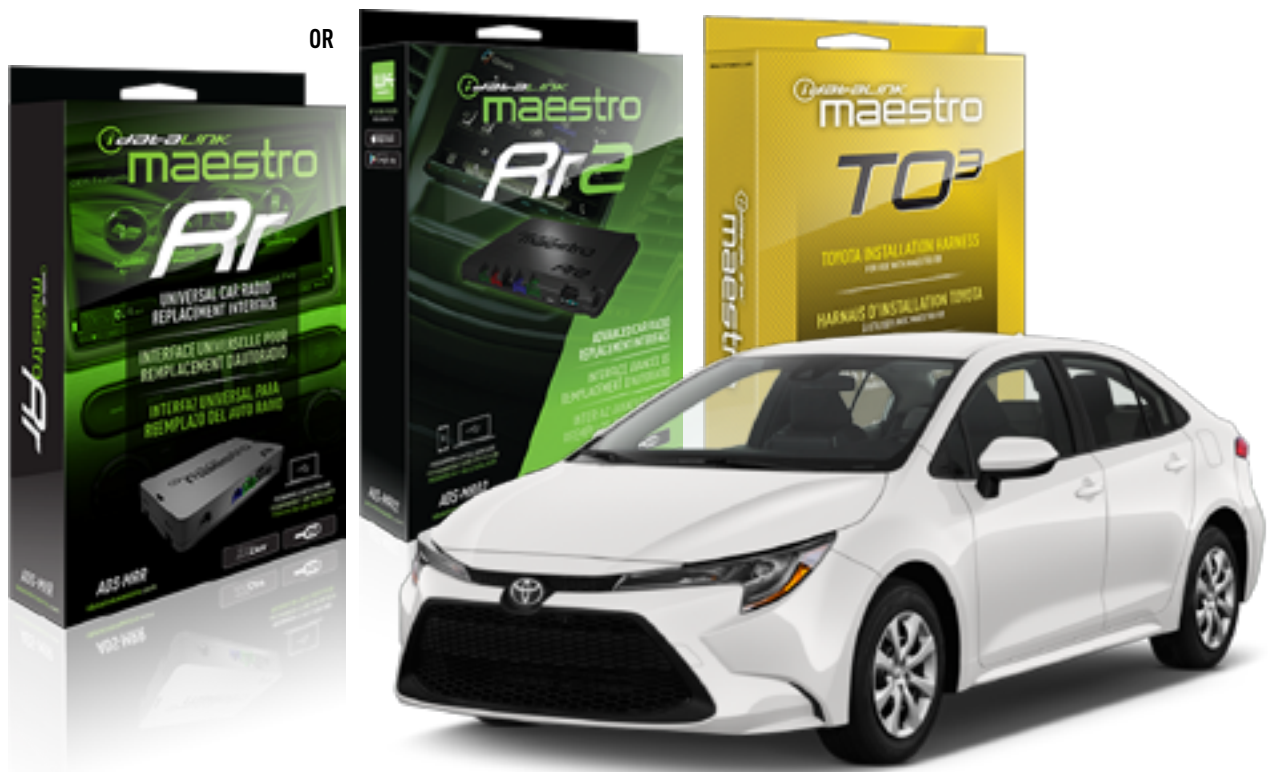
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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

NEED HELP?

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

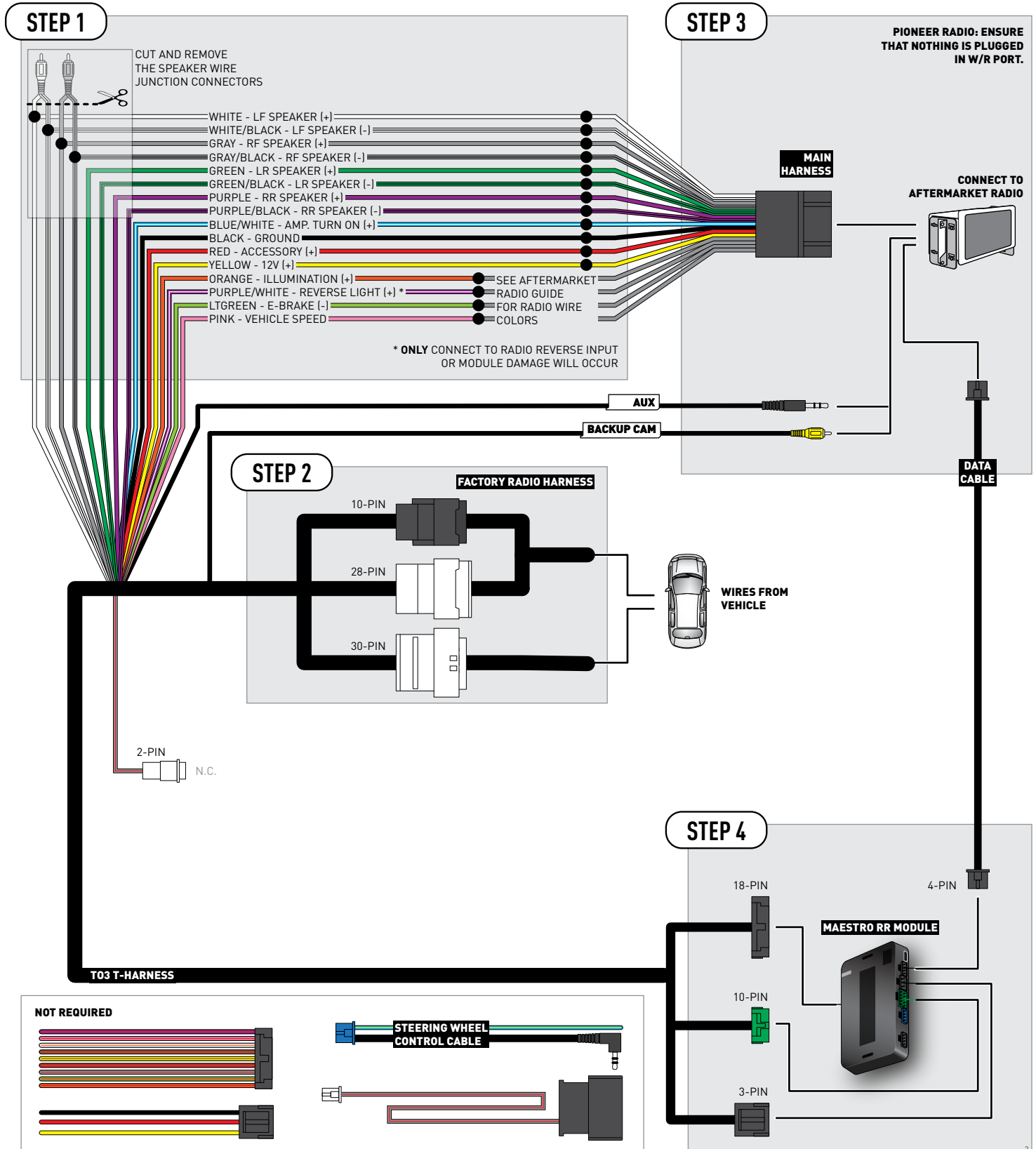
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *without JBL*



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 |

MODULE DIAGNOSTICS



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

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| VIDEO HELP | | Installation, product information, vehicle specific videos. |
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Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

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REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

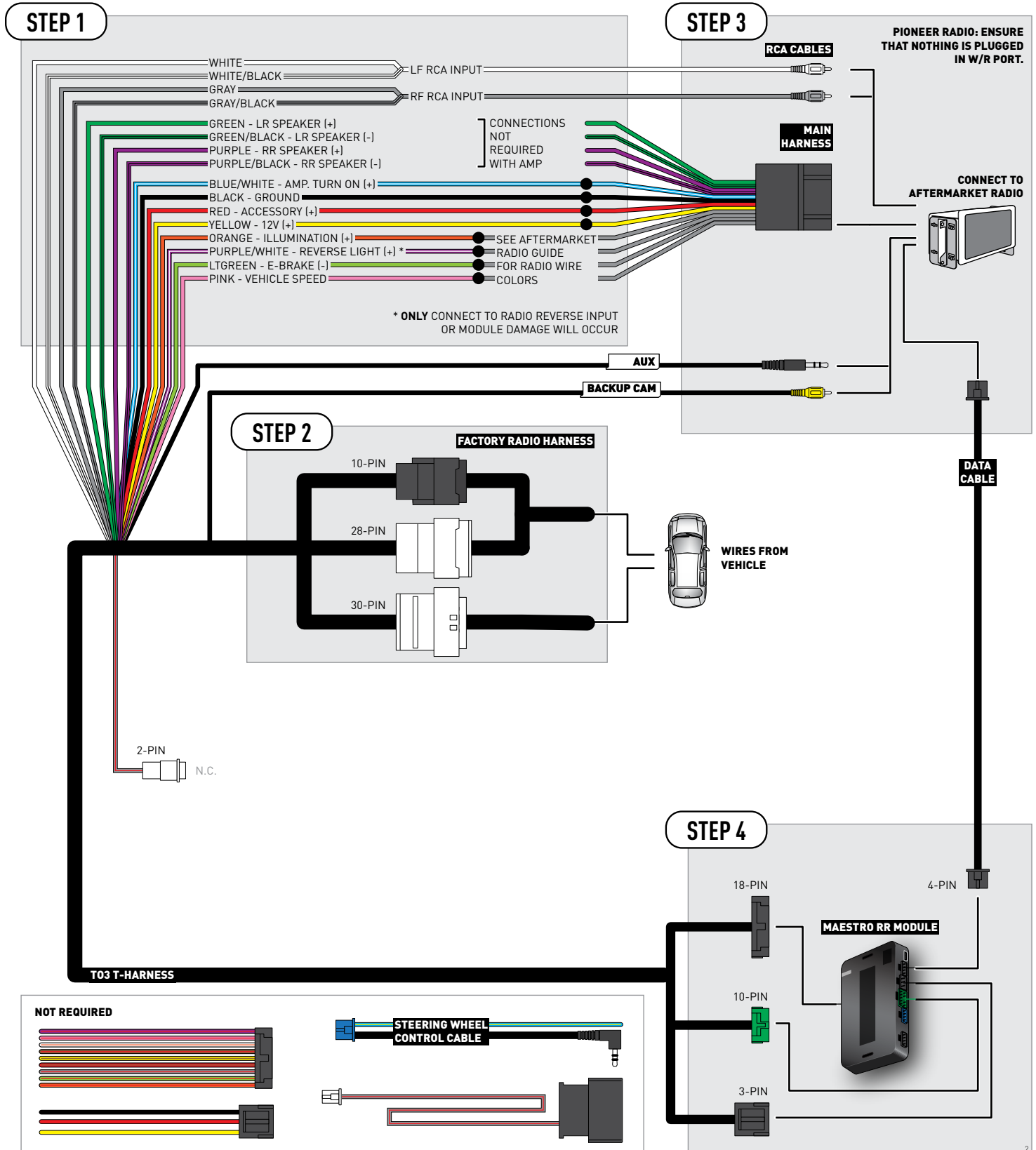
MODE - Change view

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Note: 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

WIRING DIAGRAM *with JBL*



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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 |

MODULE DIAGNOSTICS



| LED 1 Module/Firmware status | LED 2 (RR2) Bluetooth activity | LED STATUS | DIAGNOSTIC |
|------------------------------------|-----------------------------------|-----------------------|--|
| or | | RED or GREEN flashing | LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation. |
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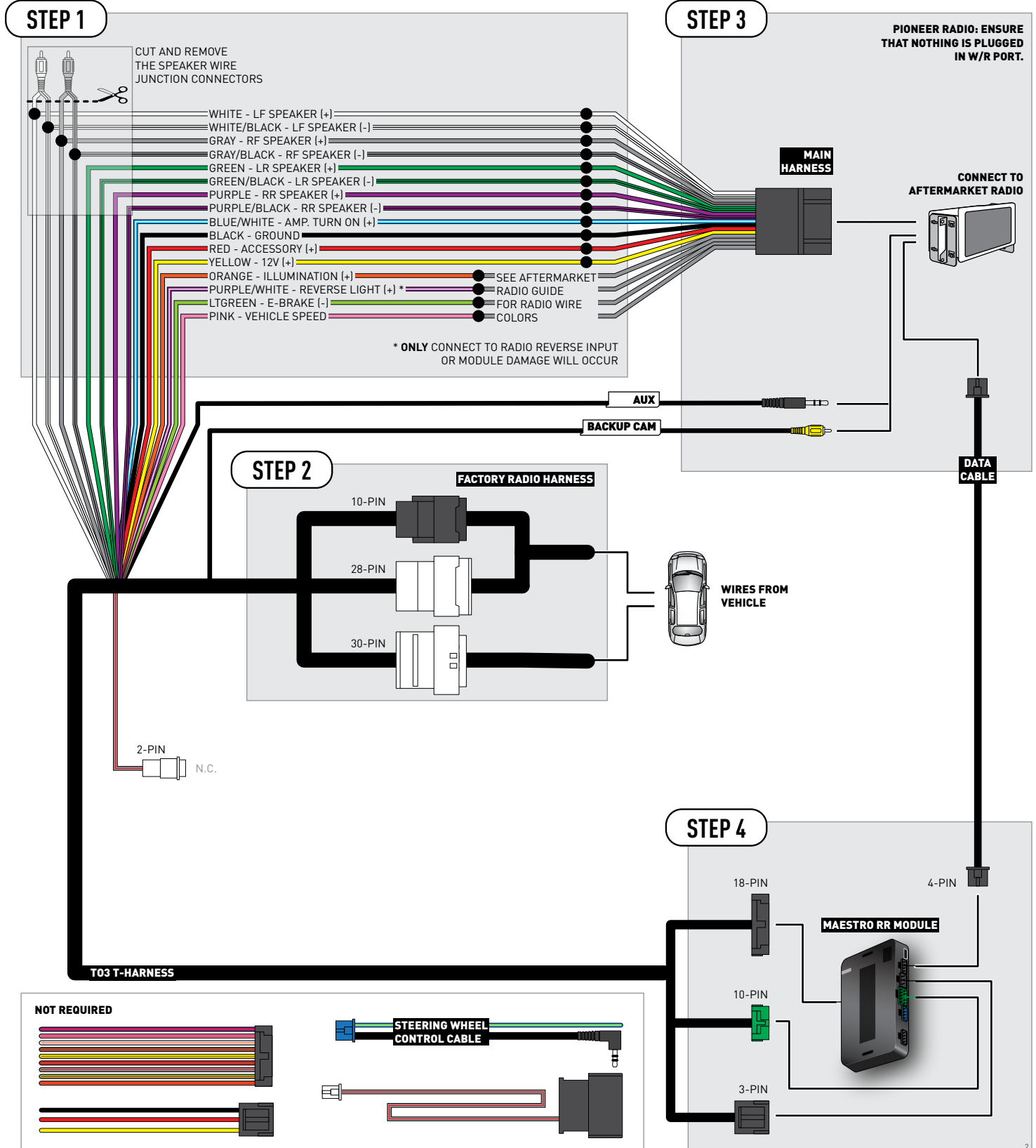
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| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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, BACKUP CAMERA, AND MORE!



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PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-DS

ADDITIONAL RESOURCES

[Maestro RR2 Programmable Outputs Guide](#)

OPTIONAL ACCESSORIES

K40[™]
ELECTRONICS
ESCORT

Click here for:
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WELCOME

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

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| Module Diagnostics | 6 |
| Troubleshooting Table | 7 |

INSTALLATION INSTRUCTIONS P1/1

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 T03 T-harness and match the wire functions.
- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

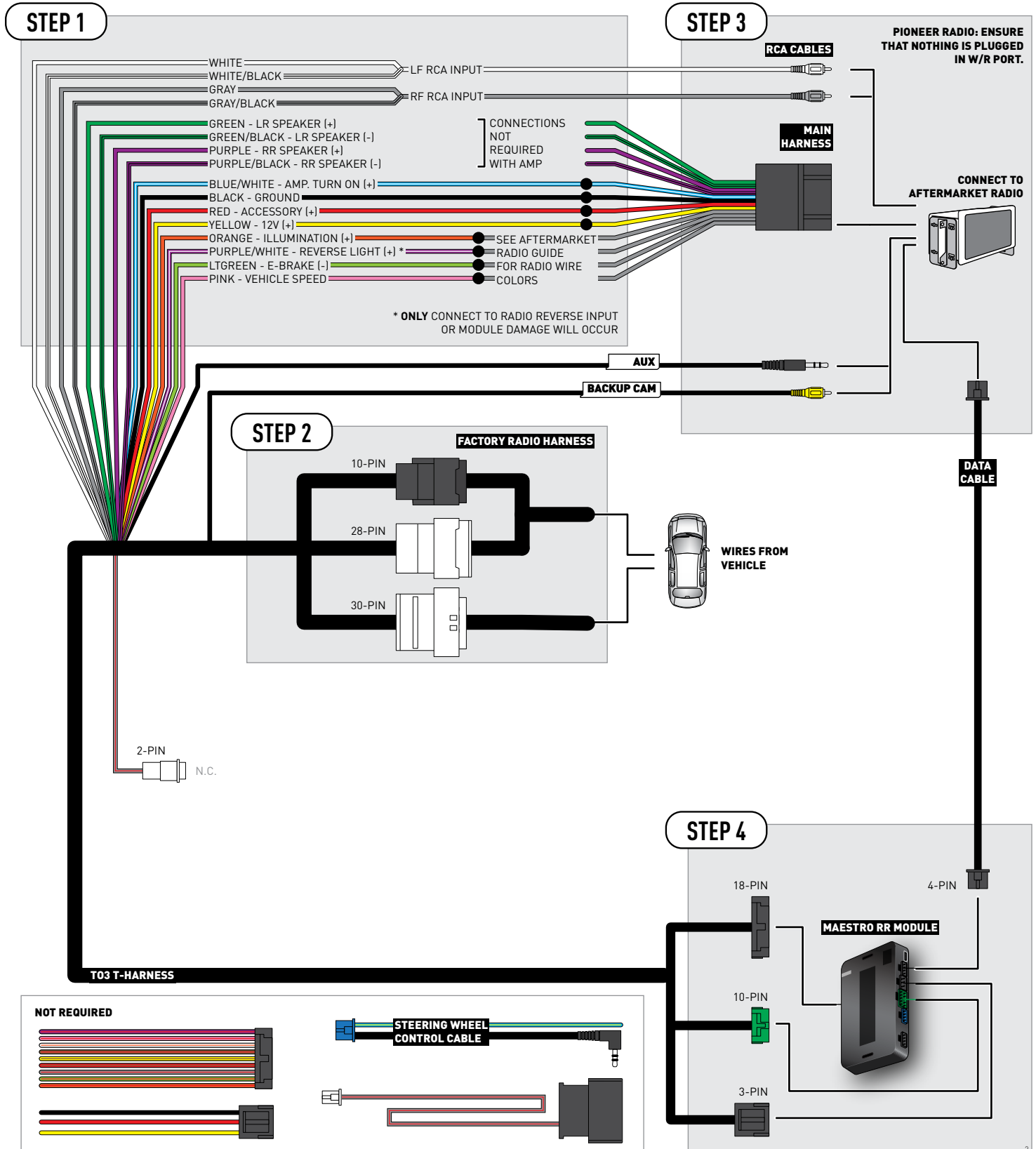
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *with JBL*



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
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| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p> |

MAESTRO RR RESET PROCEDURE:

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 Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker wire junction connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

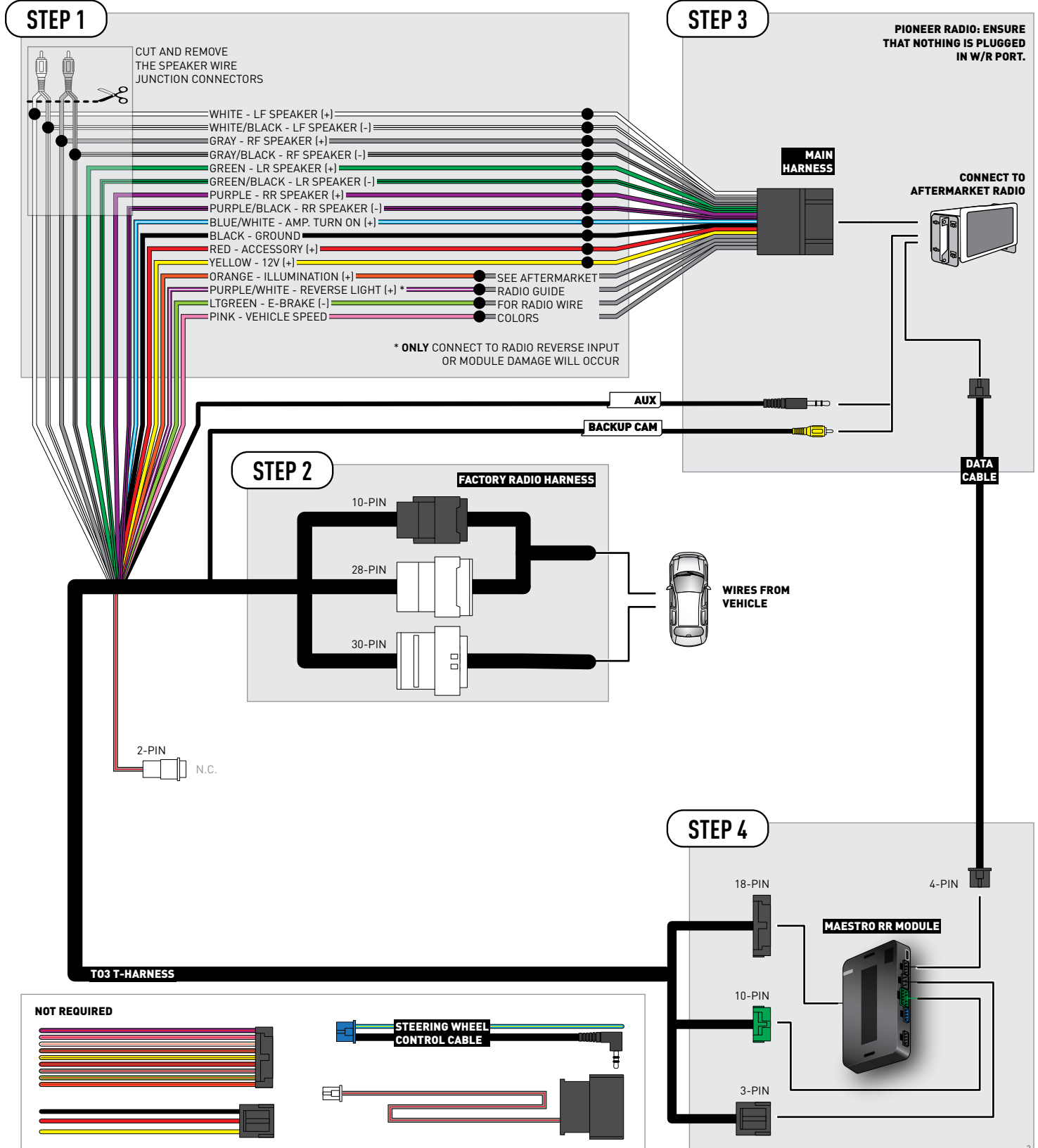
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *without JBL*



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p> |

MAESTRO RR RESET PROCEDURE:

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

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

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

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STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

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- Connect the factory harness to the T03 T-harness.

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
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(select vehicles/optional feature — activate 4LO and press the camera button to access):

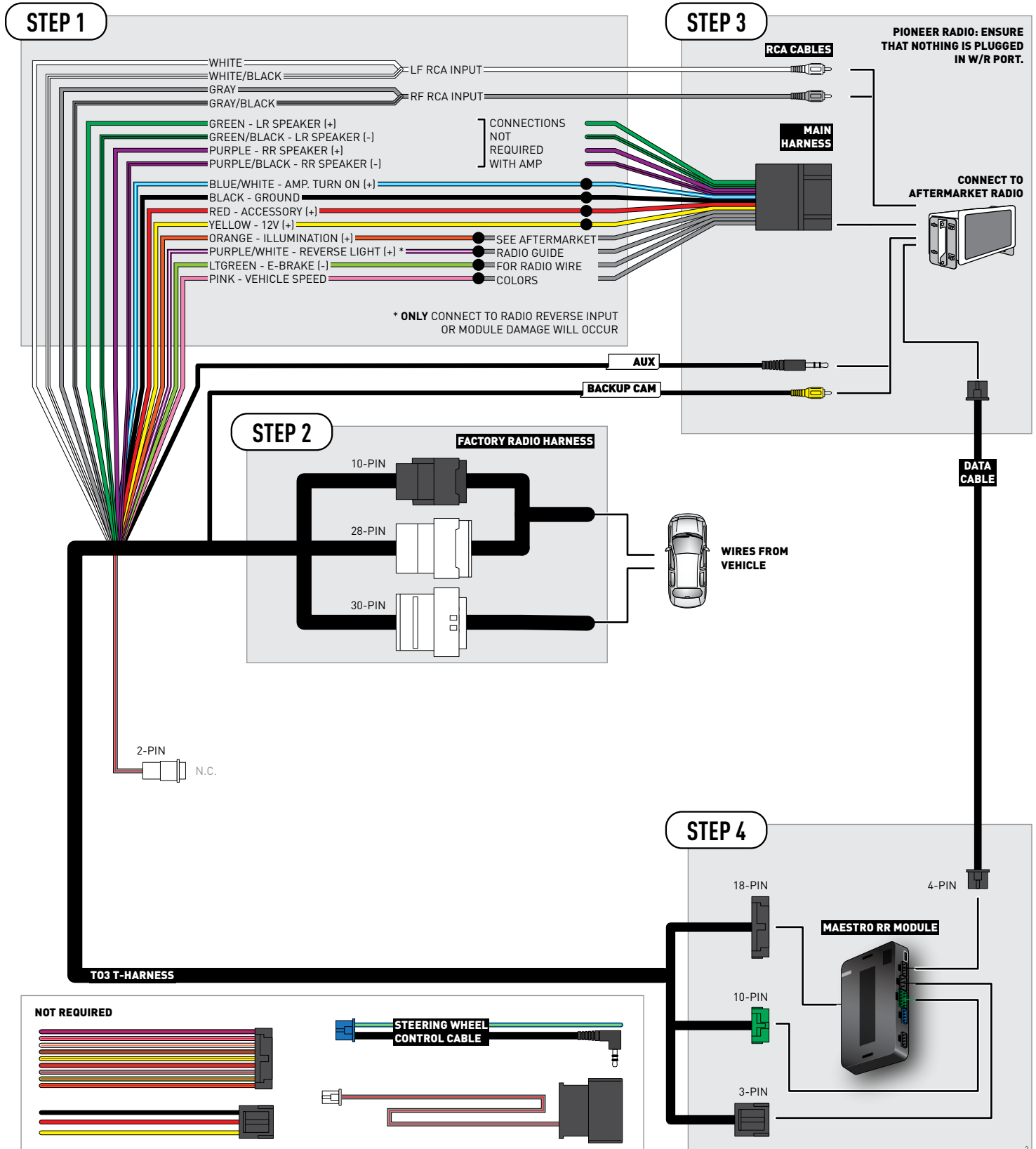
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WIRING DIAGRAM *with JBL*



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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 |

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| PROBLEM | SOLUTION |
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iDatalink Maestro HRN-RR-TO3 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-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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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

 maestro.idatalink.com/support
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| Wiring Diagram | 4 |
| Radio Wire Reference Chart | 5 |
| Module Diagnostics | 6 |
| Troubleshooting Table | 7 |

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker wire junction connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

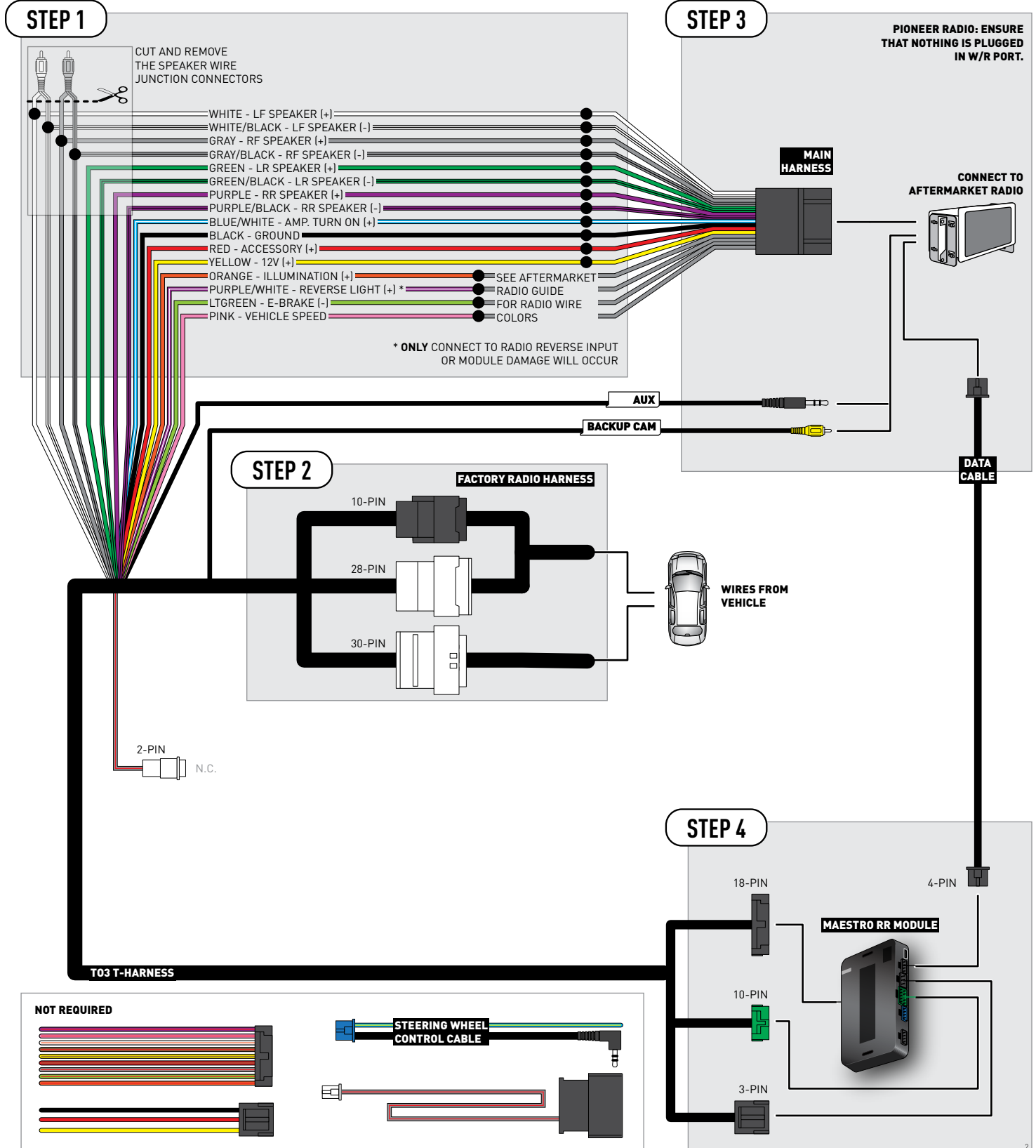
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *without JBL*



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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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K40[™]
ELECTRONICS
ESCORT

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- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

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 cables into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

Note:

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

STEP 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

MODE - Change view

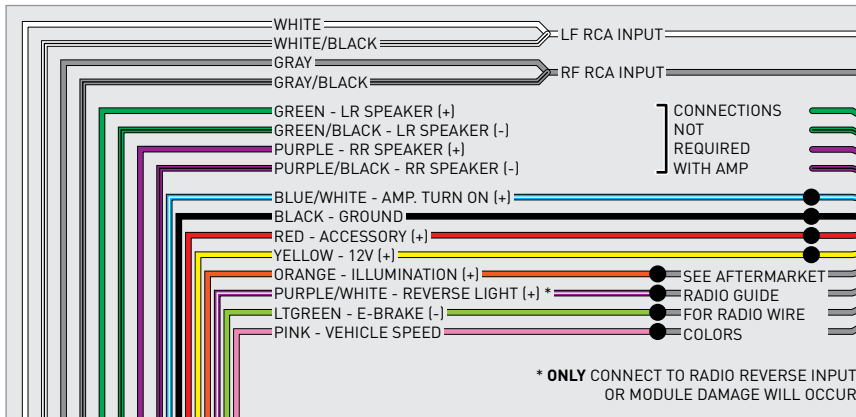
SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

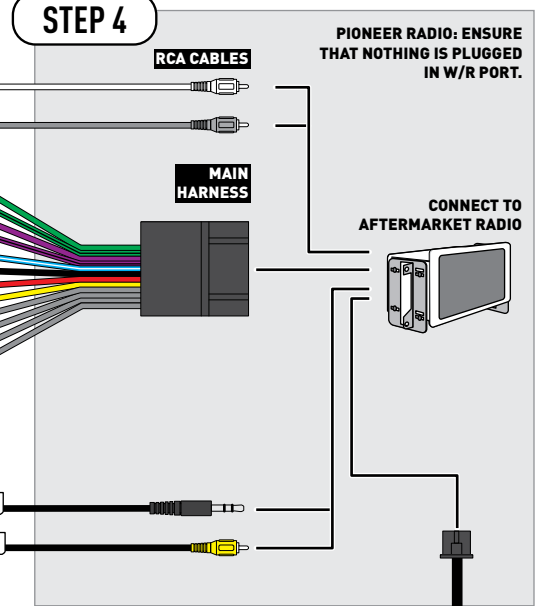
Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM *with JBL*

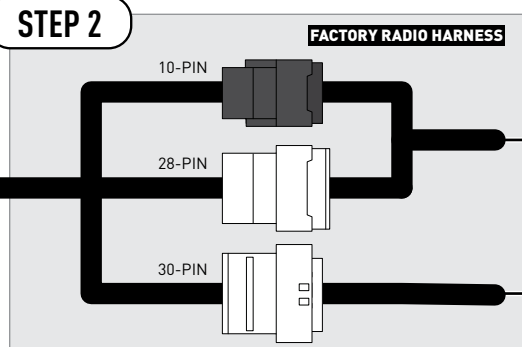
STEP 1



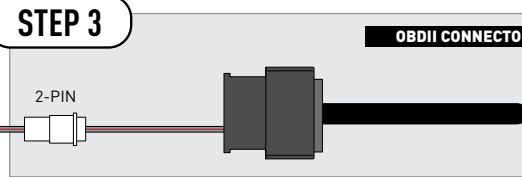
STEP 4



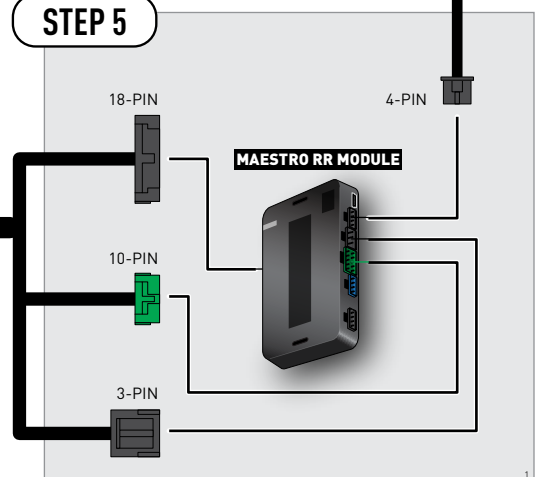
STEP 2



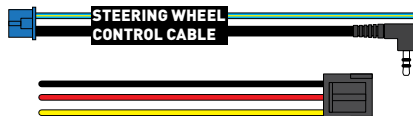
STEP 3



STEP 5



NOT REQUIRED











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 |

MODULE DIAGNOSTICS



| LED 1 Module/Firmware status | LED 2 (RR2) Bluetooth activity | LED STATUS | DIAGNOSTIC |
|--|---|-----------------------|--|
|  or  | | RED or GREEN flashing | LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation. |
|  | | 1 RED flash | Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE. |
|  | | 2 RED flashes | Problem detected. Consult troubleshooting table. |
|  | | 1 GREEN flash | After radio boots up : Normal operation. |
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| | | |
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| VIDEO HELP |  | Installation, product information, vehicle specific videos. |
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STEP 4

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Note:

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

STEP 5

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

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(select vehicles/optional feature — activate 4LO and press the camera button to access):

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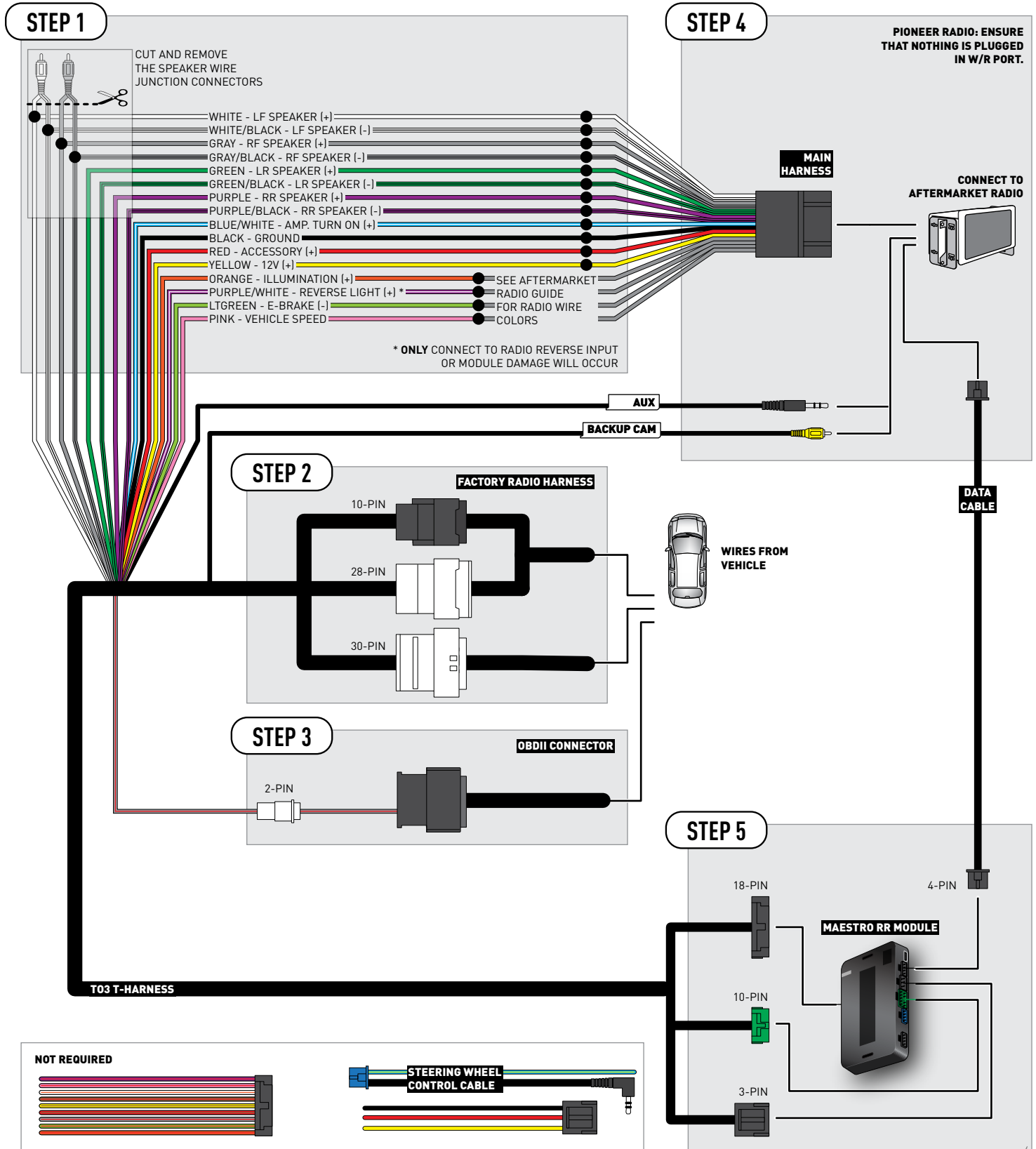
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| PROBLEM | SOLUTION |
|---|--|
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Please note that Maestro RR will only retain functionalities that were originally available in the vehicle.

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

 maestro.idatalink.com/support
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| Module Diagnostics | 6 |
| Troubleshooting Table | 7 |

INSTALLATION INSTRUCTIONS P1/1

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 T03 T-harness and match the wire functions.
- Remove the factory radio.

Note: Rear speaker wire connections are not required.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

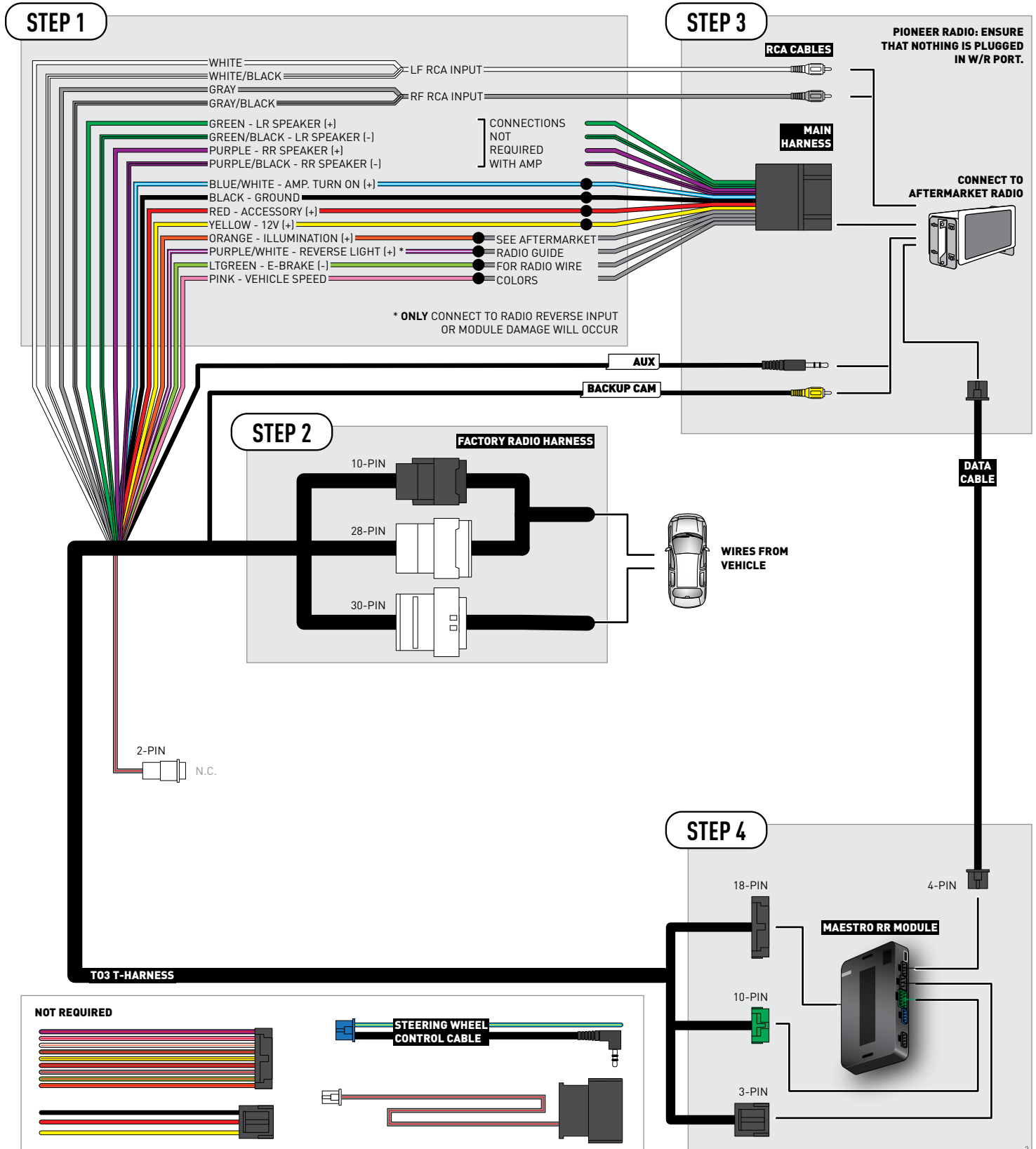
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *with JBL*



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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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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.

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Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

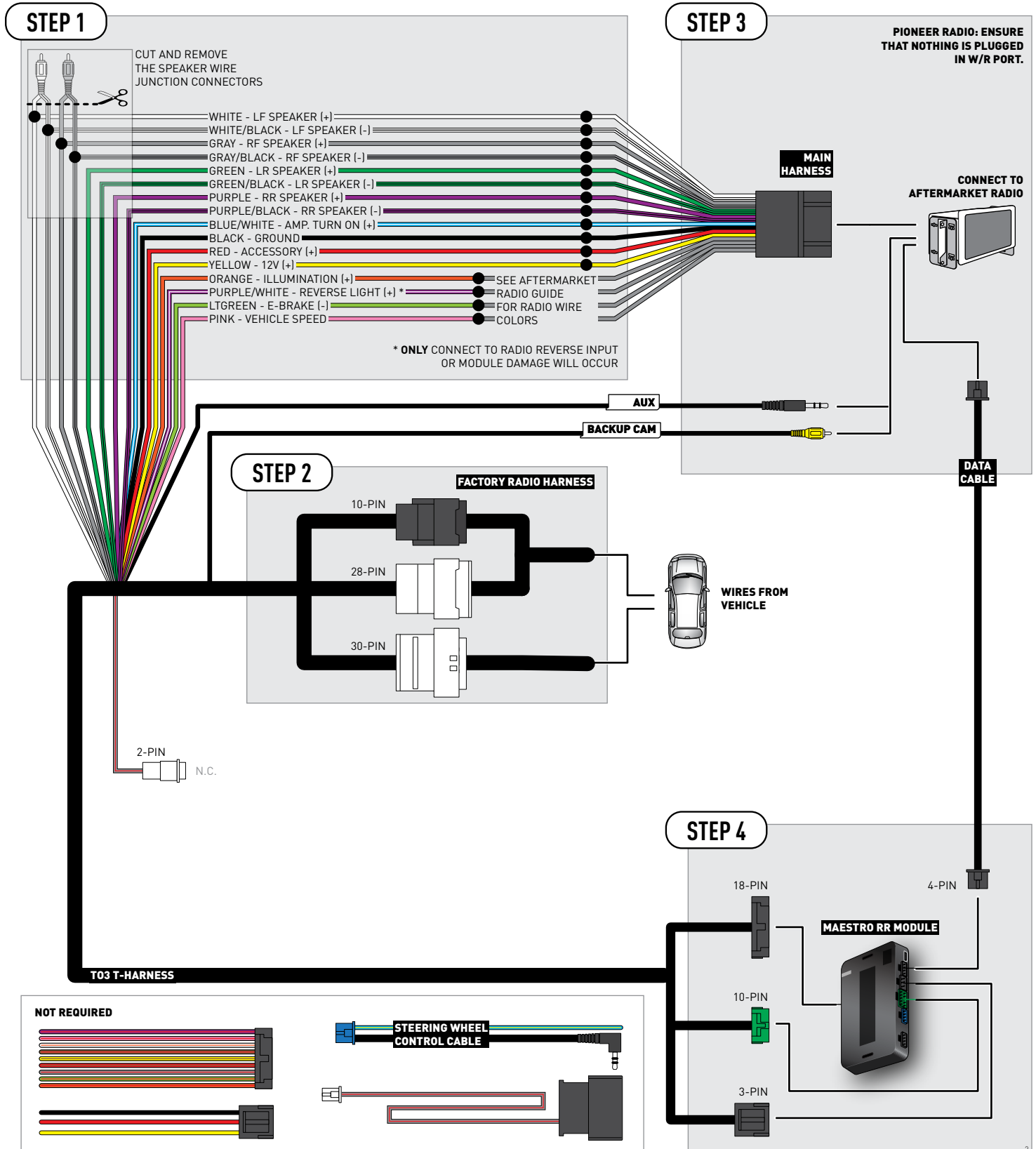
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: 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

WIRING DIAGRAM *without JBL*











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 |

MODULE DIAGNOSTICS



| LED 1 Module/Firmware status | LED 2 (RR2) Bluetooth activity | LED STATUS | DIAGNOSTIC |
|--|---|-----------------------|--|
|  or  | | RED or GREEN flashing | LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation. |
|  | | 1 RED flash | Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE. |
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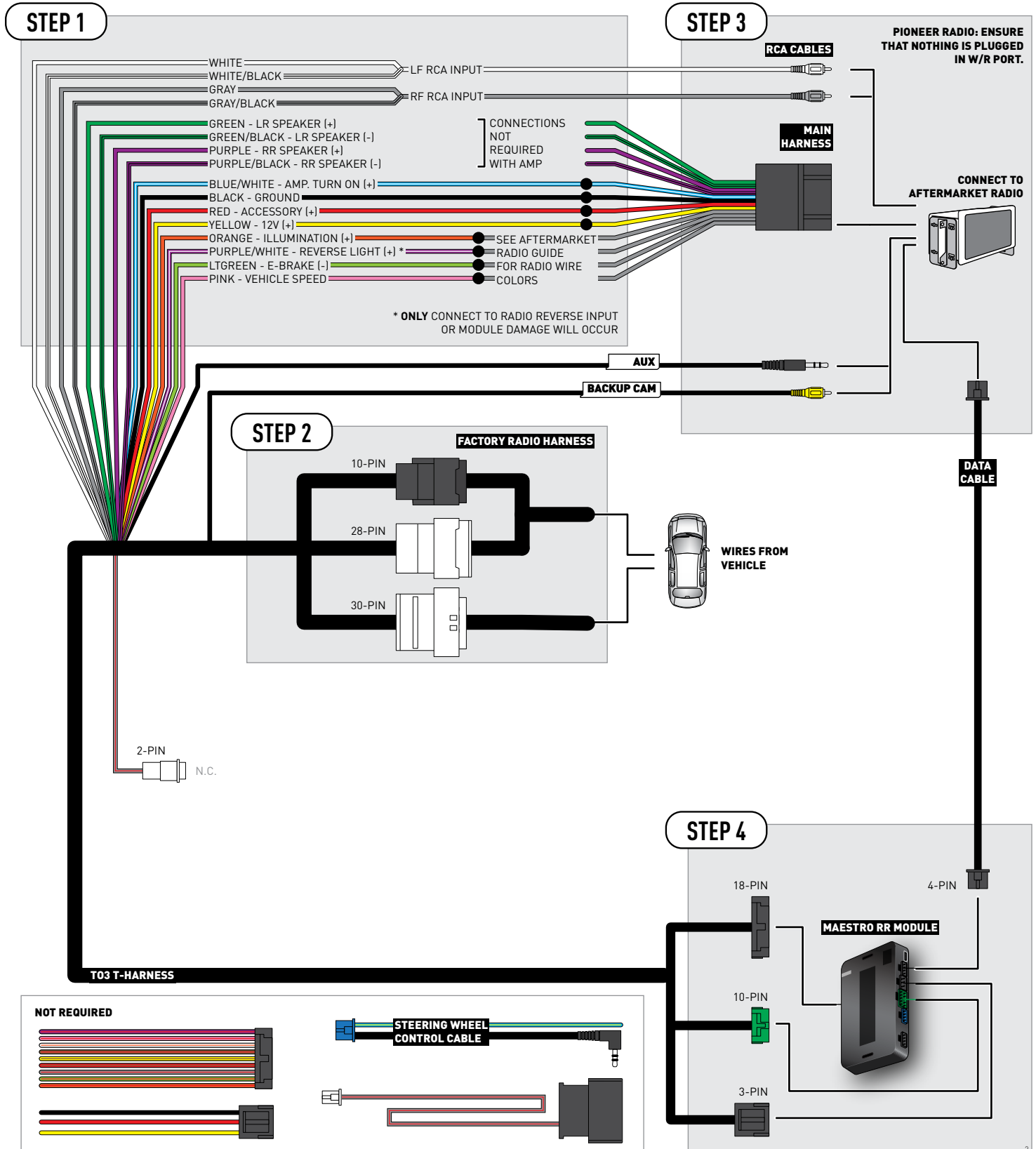
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Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

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Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

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- MODE** - Change view
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(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

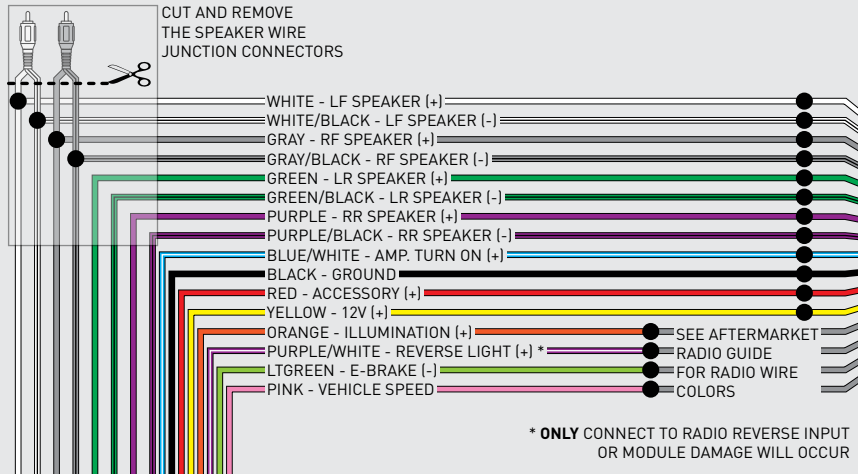
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

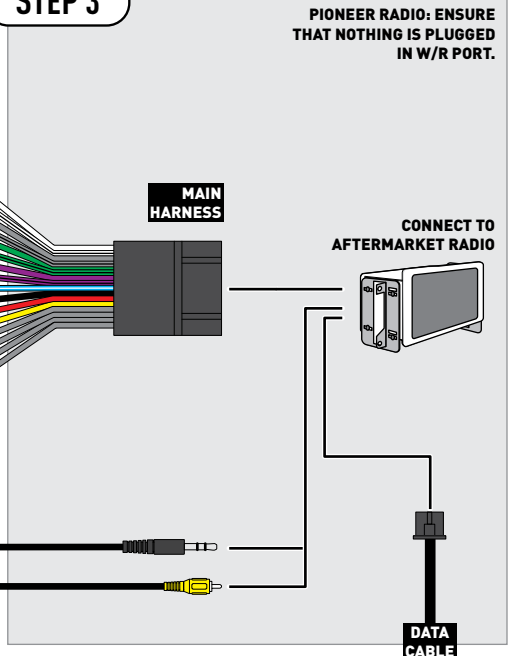
Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM *without JBL*

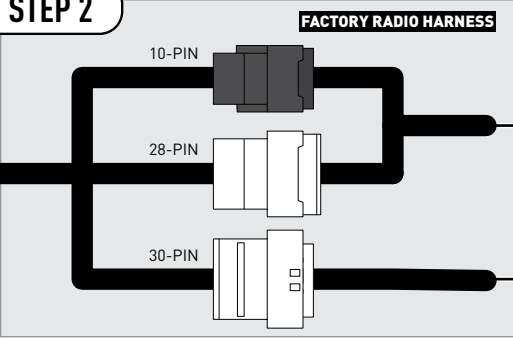
STEP 1



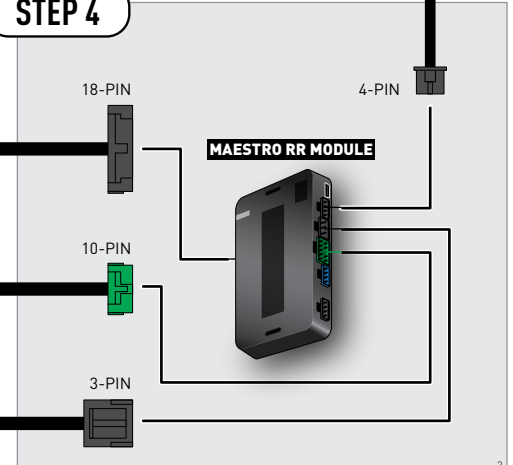
STEP 3



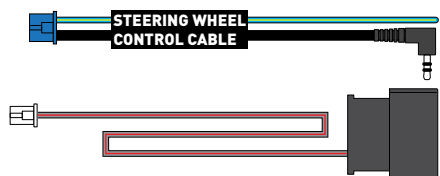
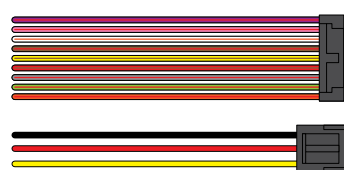
STEP 2



STEP 4



NOT REQUIRED



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 |

MODULE DIAGNOSTICS



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

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

TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|--|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | <p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p> |
| The light on the Maestro is blinking RED TWICE and the radio IS turning on. | <p>Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty.</p> <p>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.</p> |
| The light on the Maestro is blinking RED TWICE but radio is NOT turning on. | <p>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 as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.</p> |
| There is no image from the backup camera, just a black screen. | <p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p> |
| Radio does not switch to reverse cam input when shifting to reverse | <p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</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

Web: maestro.idatalink.com/support add 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, BACKUP CAMERA, AND MORE!



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRN-RR-TO3 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-TOY03-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

 maestro.support@idatalink.com

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the front speaker wire junction connectors.
- Connect the wires shown on the next page from aftermarket radio main harness to the T03 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- Connect the factory harness to the T03 T-harness.

STEP 3

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

Note:

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

STEP 4

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

MODE - Normal/wide view toggle

SEEK UP - Change guidelines

SEEK DOWN - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

MODE - Change view

SEEK UP - Zoom in/out

SEEK DOWN - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

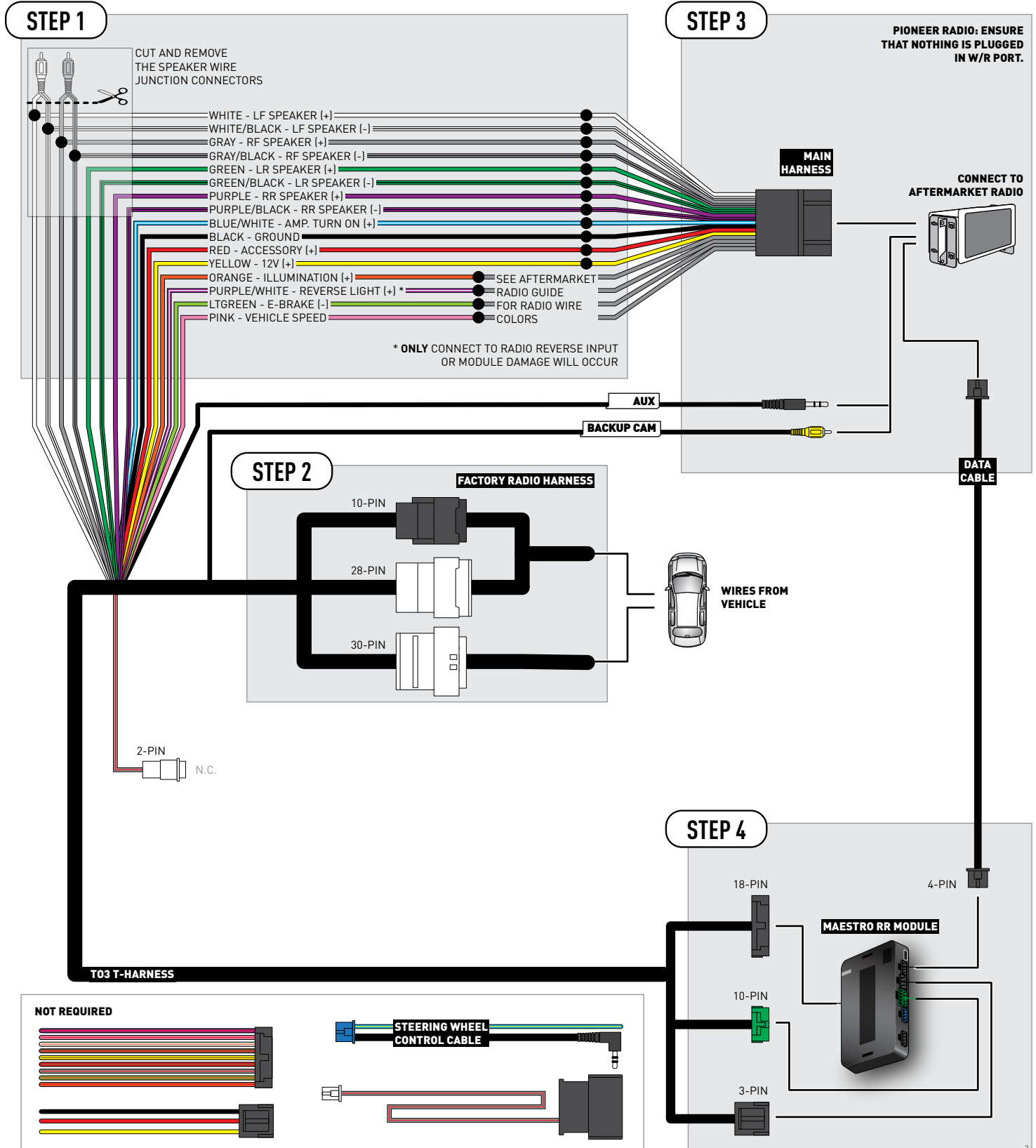
MODE - Change view

SEEK UP - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

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