SELECT VEHICLE
PRINT PAGES NEEDED

# iDatalink maestro RR

## 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.

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# INSTALL GUIDE

## 2016
## SCION IM

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# WELCOME

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

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

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

# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

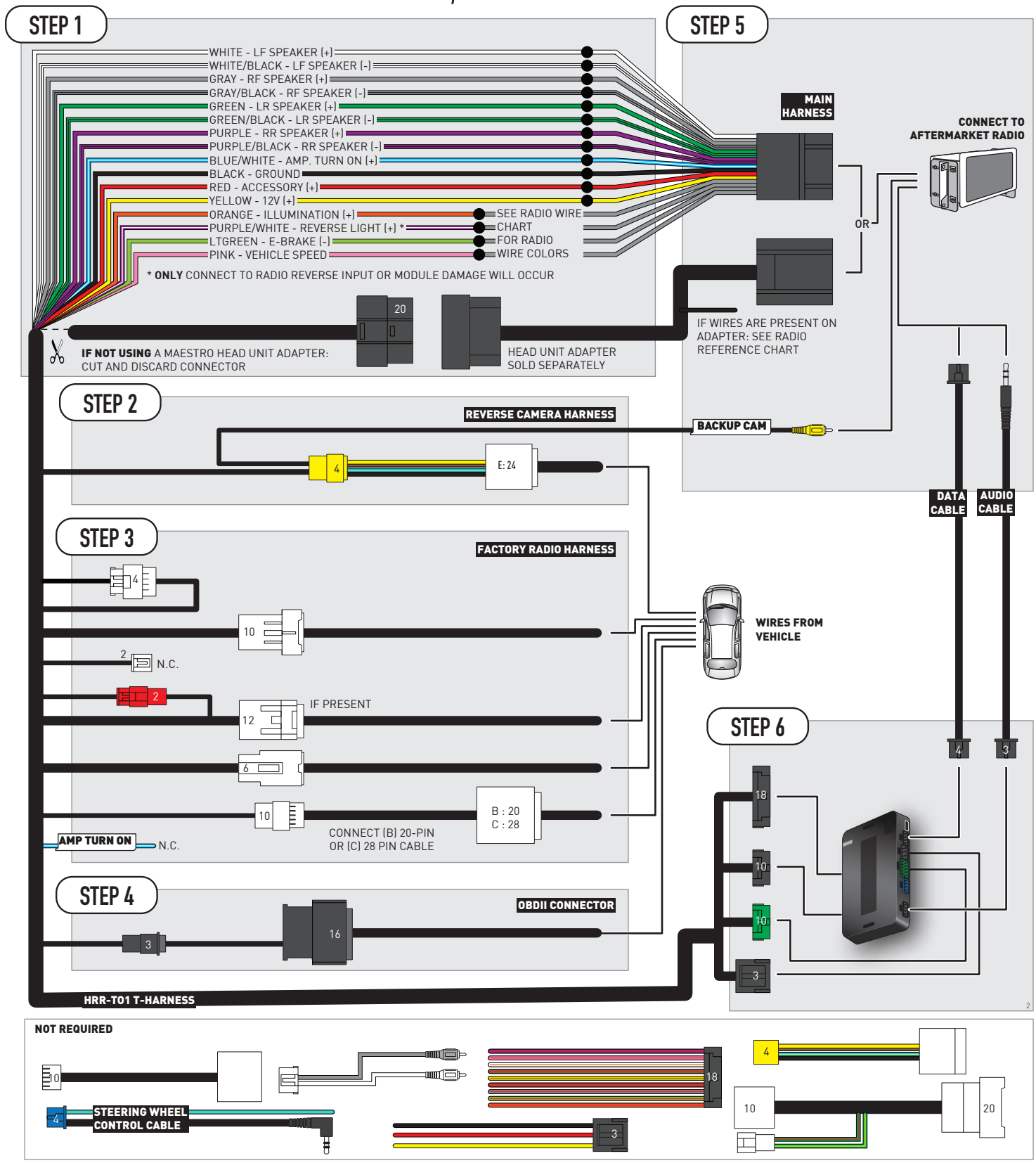
## STEP 6

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



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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2011-2016
## SCION IQ

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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iDatalink Maestro HRR-TO1 Installation Harness

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# ADDITIONAL INFORMATION AND ACCESSORIES

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

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| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

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

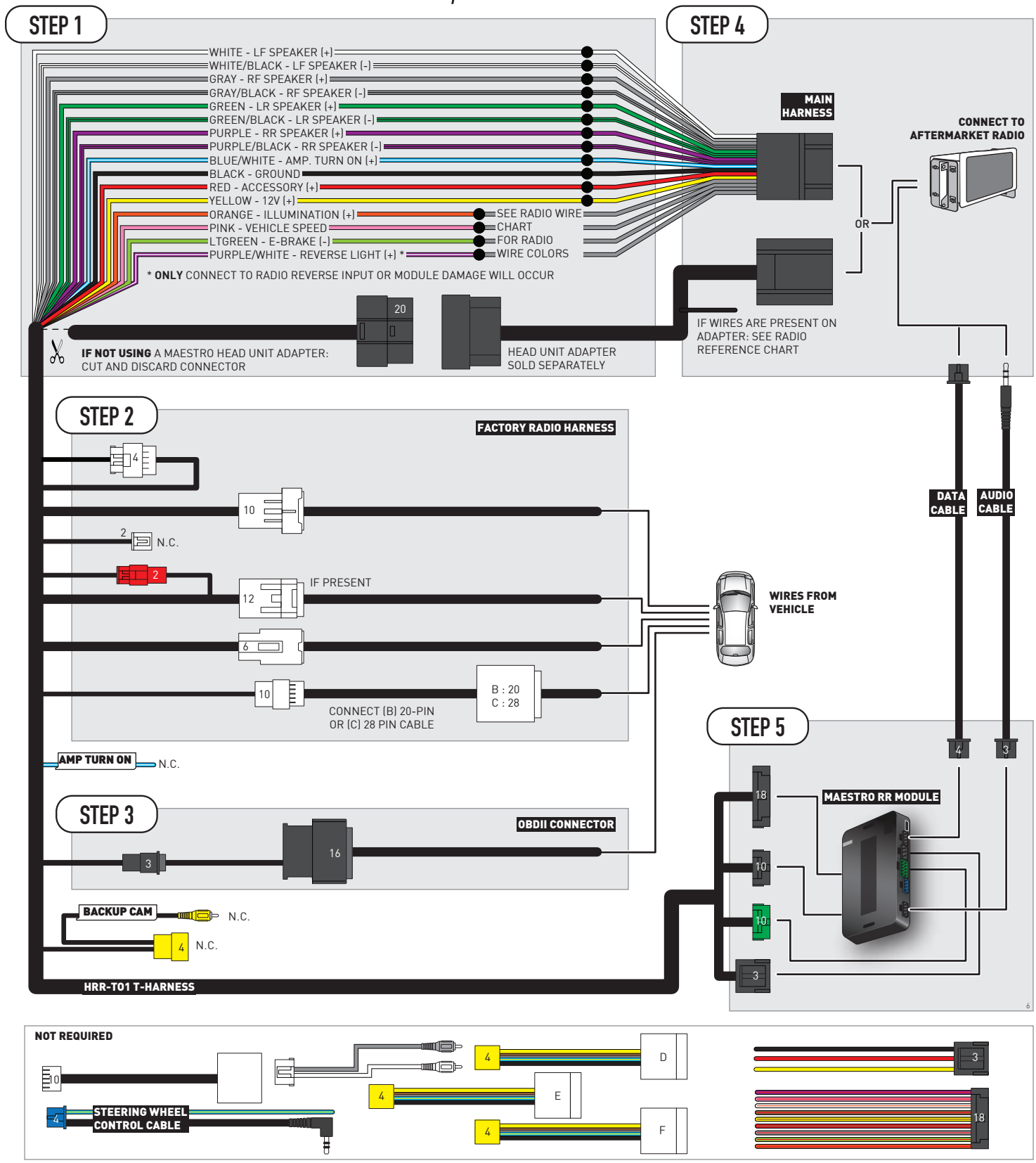
## STEP 5

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2007-2016
## SCION TC

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

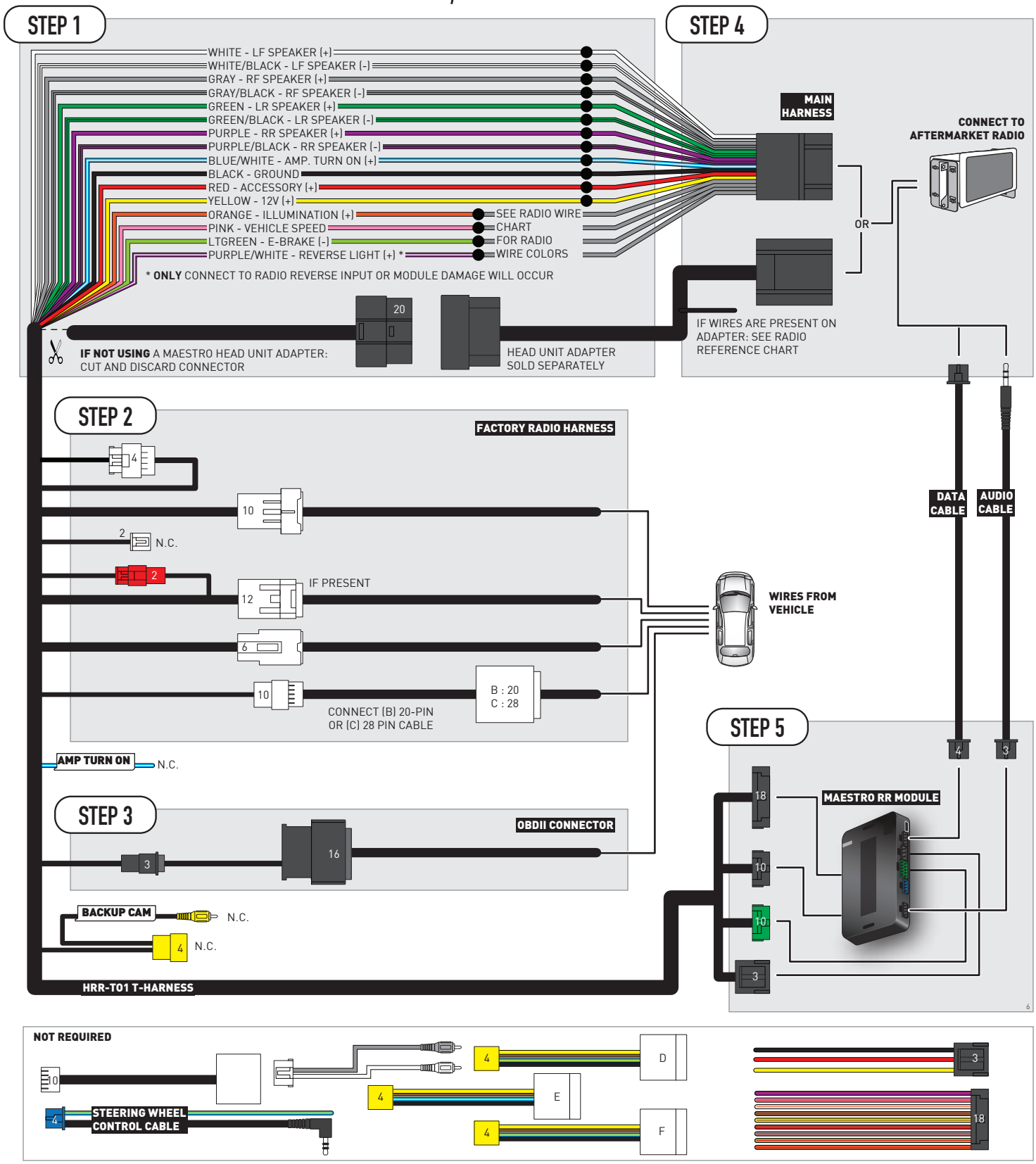
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| ● | | 2 RED flashes | Problem detected. Consult troubleshooting table. |
| ● | | 1 GREEN flash | After radio boots up : Normal operation. |
| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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Email: maestro.support@idatalink.com

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# INSTALL GUIDE

## 2008-2016
## SCION XB

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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iDatalink Maestro HRR-TO1 Installation Harness

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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

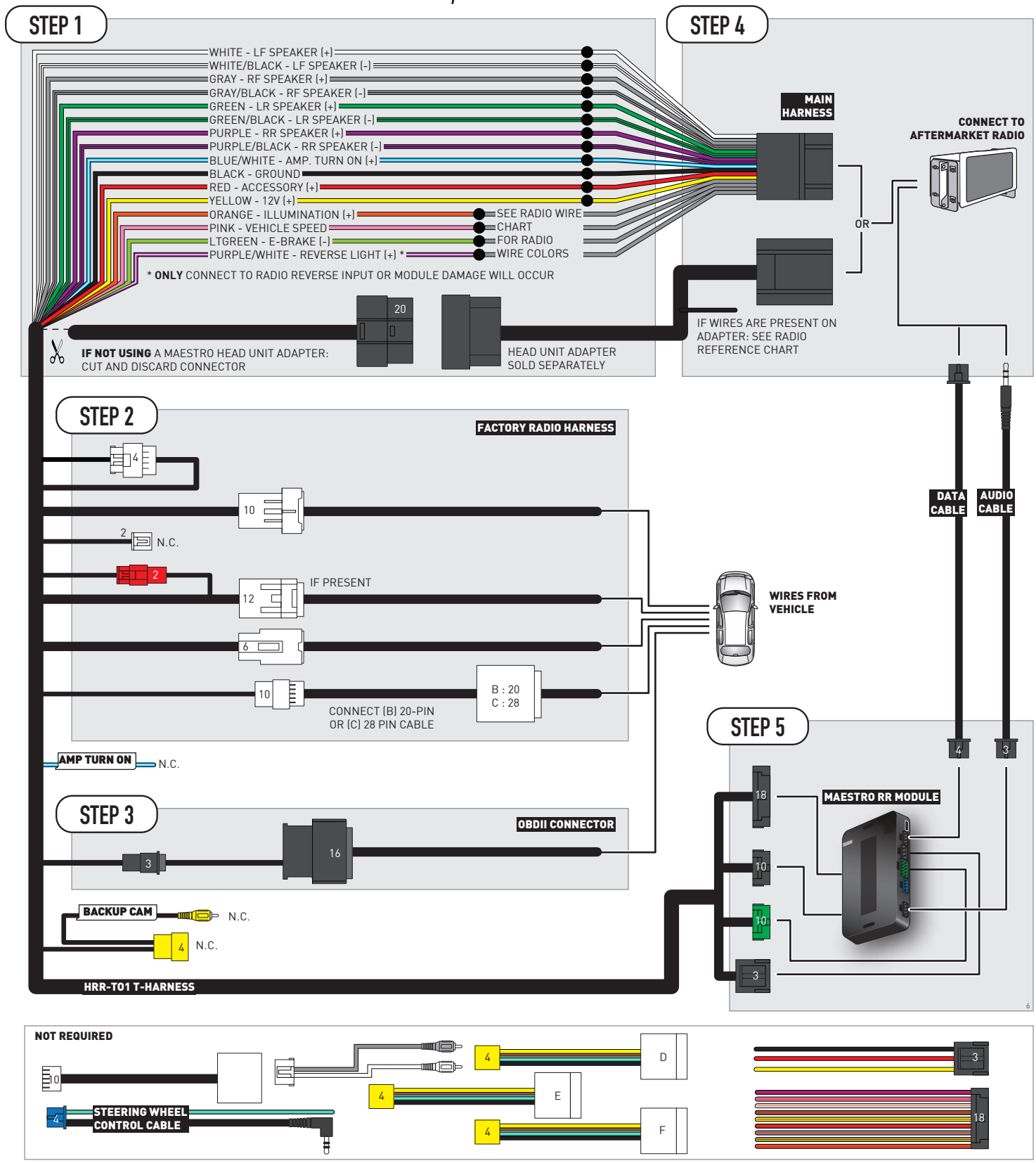
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

6

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2008-2014
## SCION XD

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

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

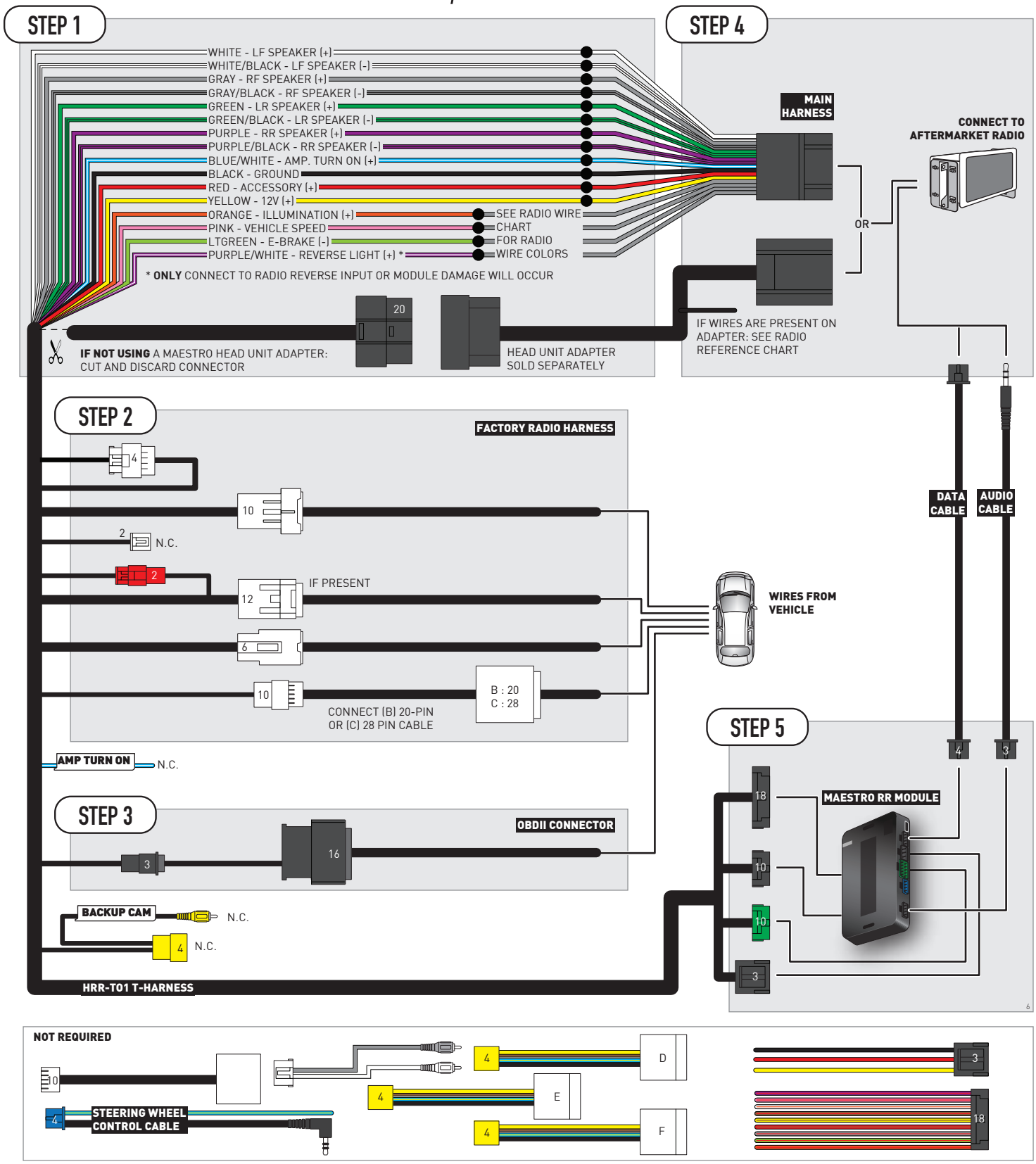
## STEP 5

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2005-2011
## TOYOTA 4 RUNNER
## WITH JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

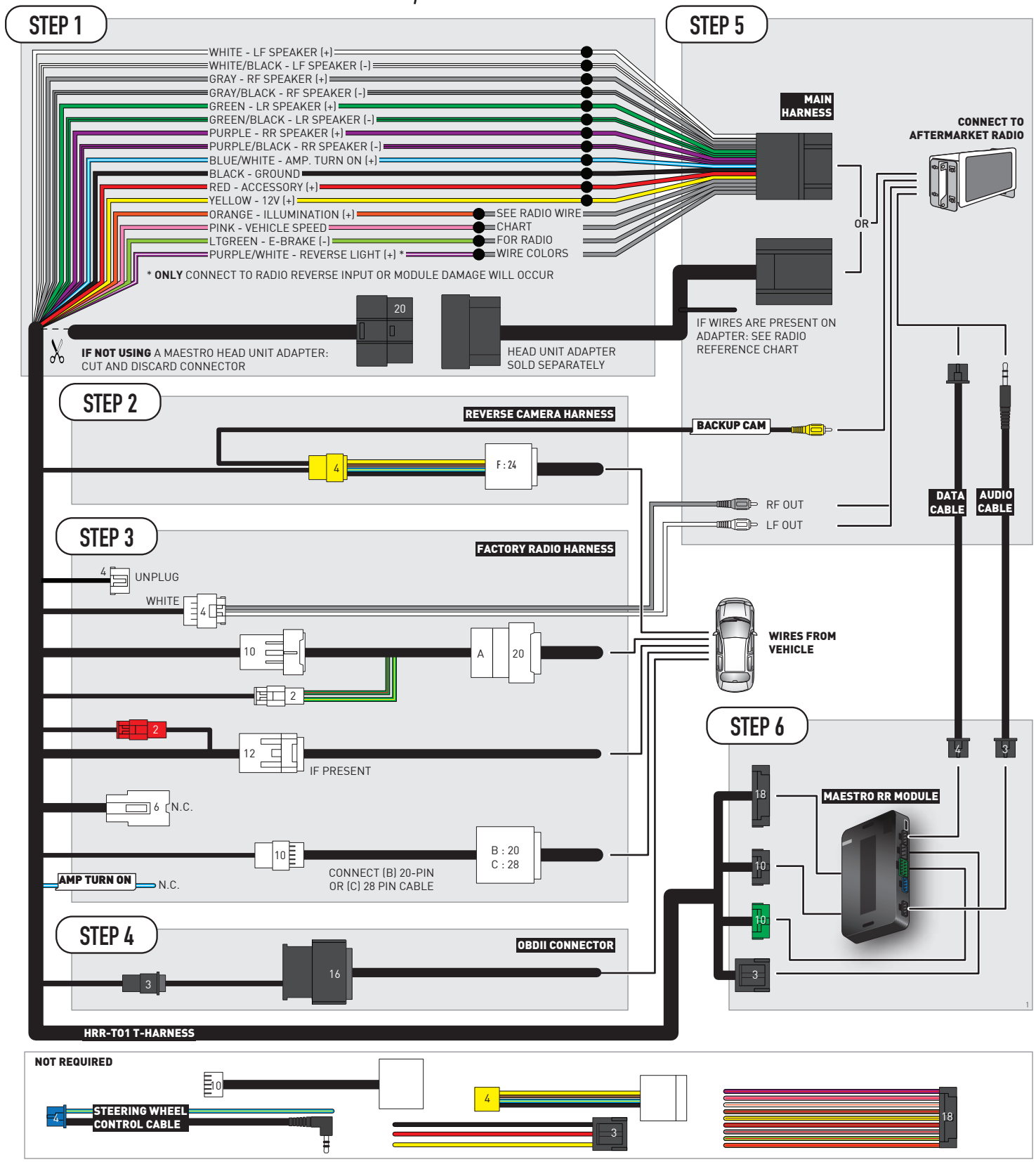
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| ● | | 2 RED flashes | Problem detected. Consult troubleshooting table. |
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| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

MAESTRO RR RESET PROCEDURE:

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

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

# INSTALL GUIDE

## 2012-2013
## TOYOTA 4 RUNNER
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

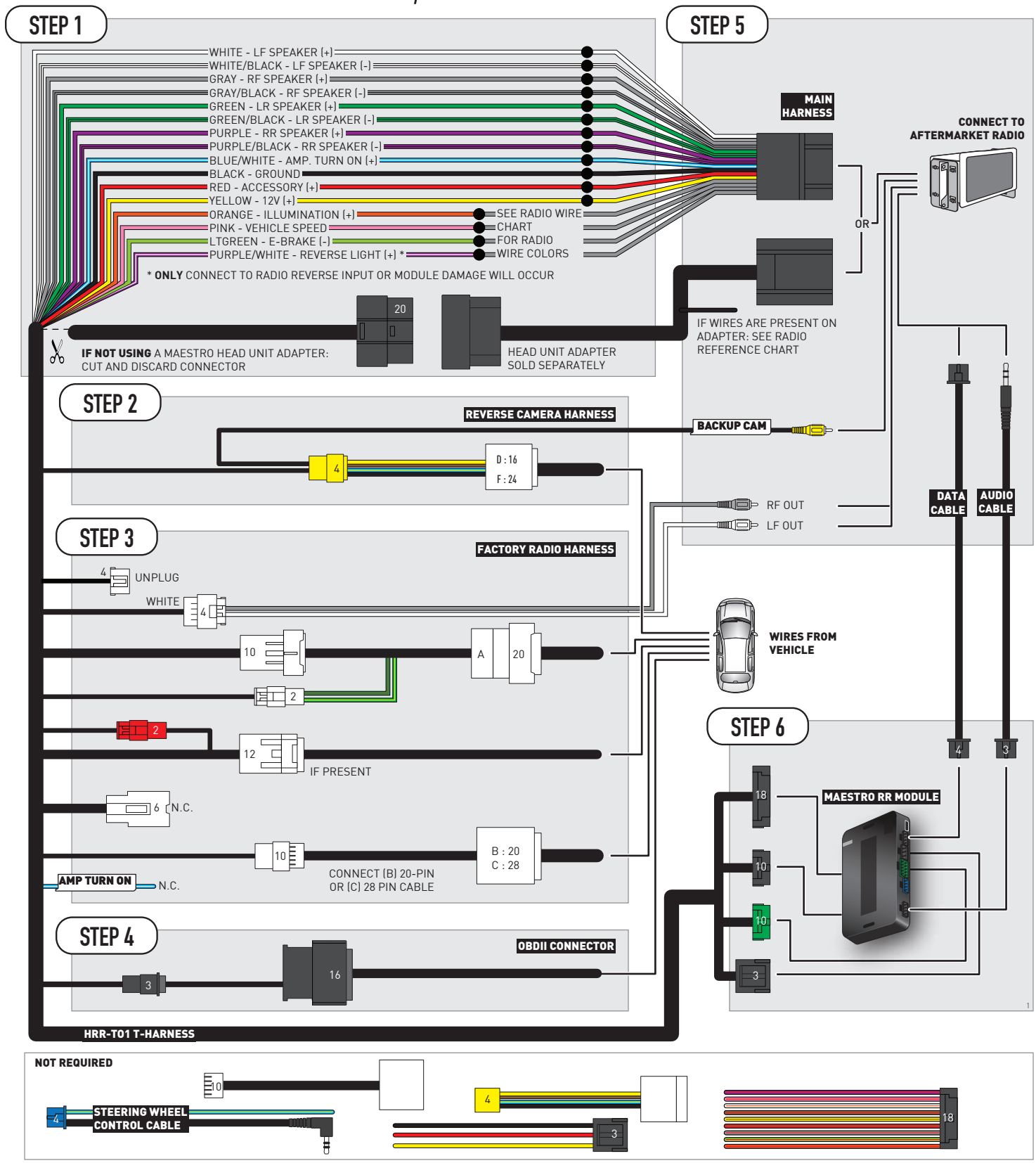
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2005-2011
## TOYOTA 4 RUNNER
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

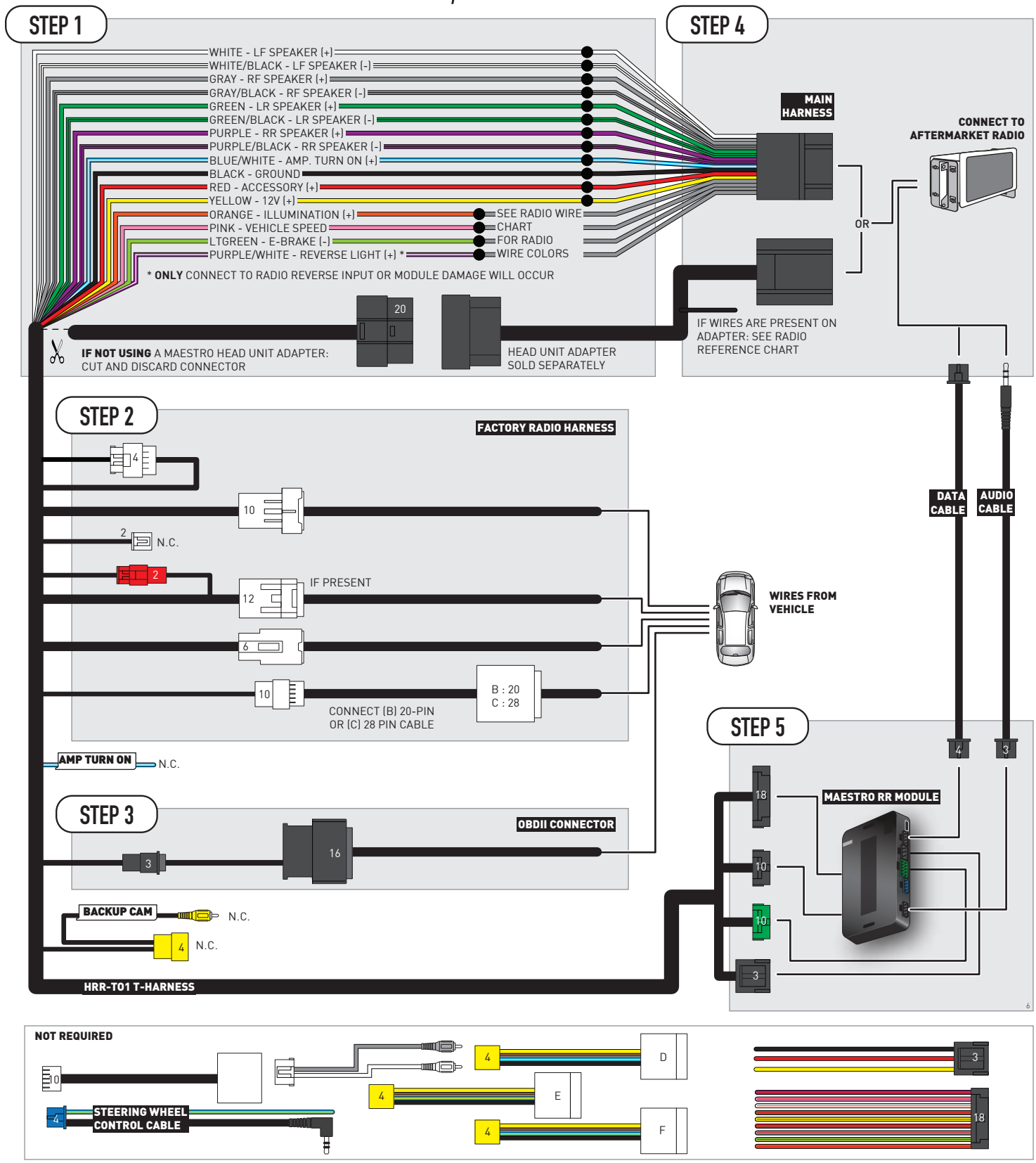
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2012-2013
## TOYOTA 4 RUNNER
### WITHOUT JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

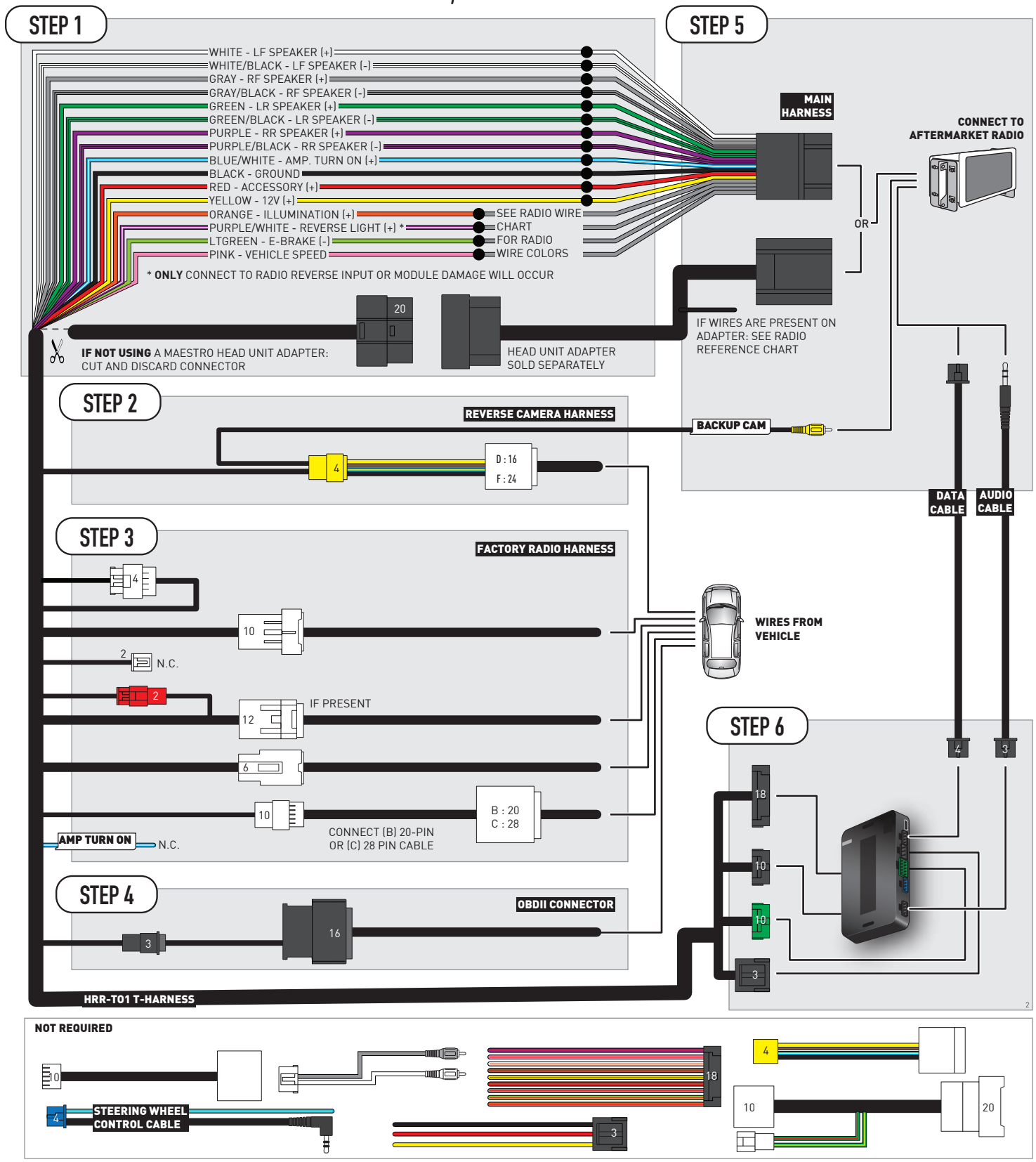
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2011-2012
## TOYOTA AVALON
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

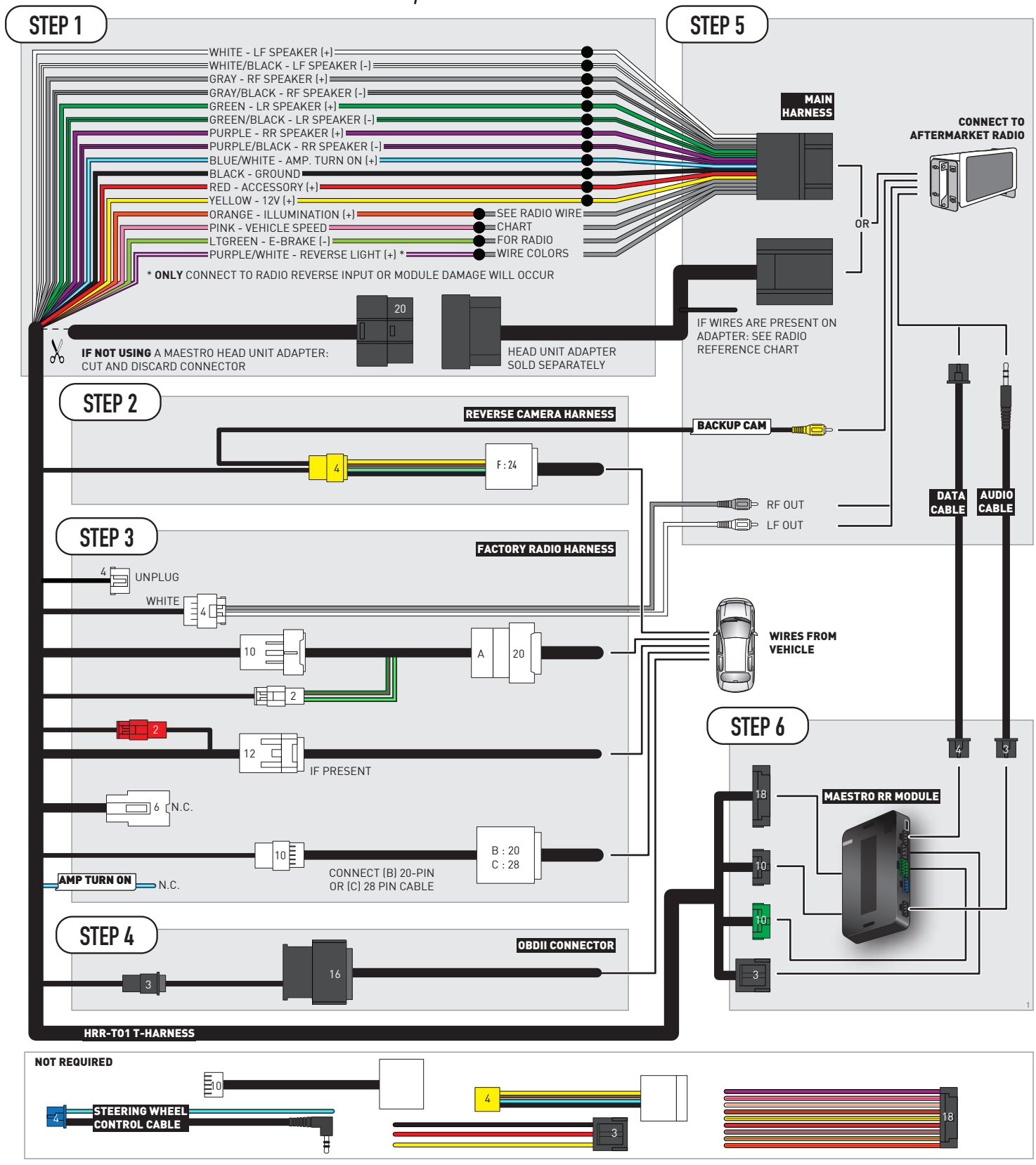
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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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| ● | | 1 GREEN flash | After radio boots up : Normal operation. |
| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2013-2014
## TOYOTA AVALON
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

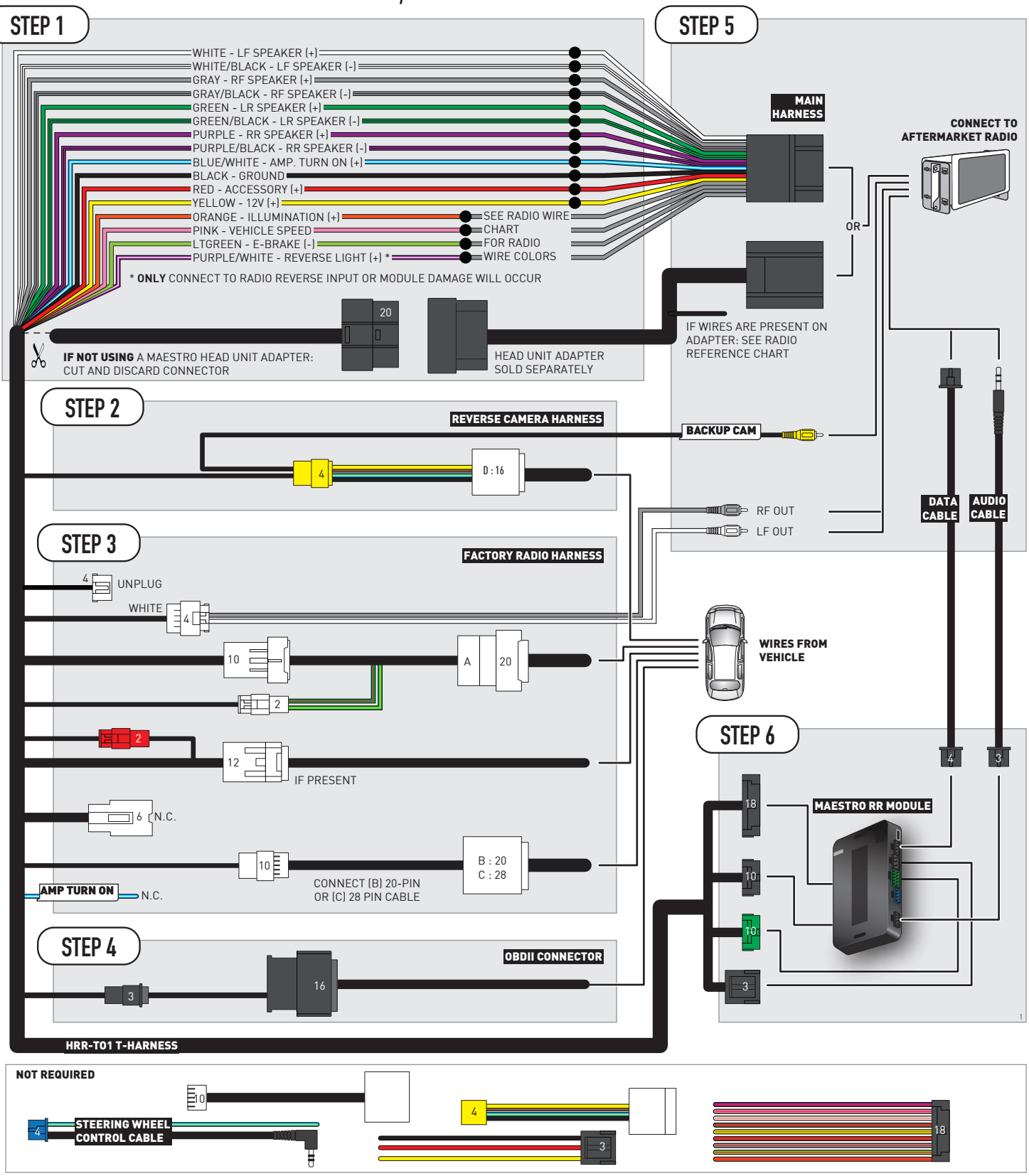
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2011-2012
## TOYOTA AVALON
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

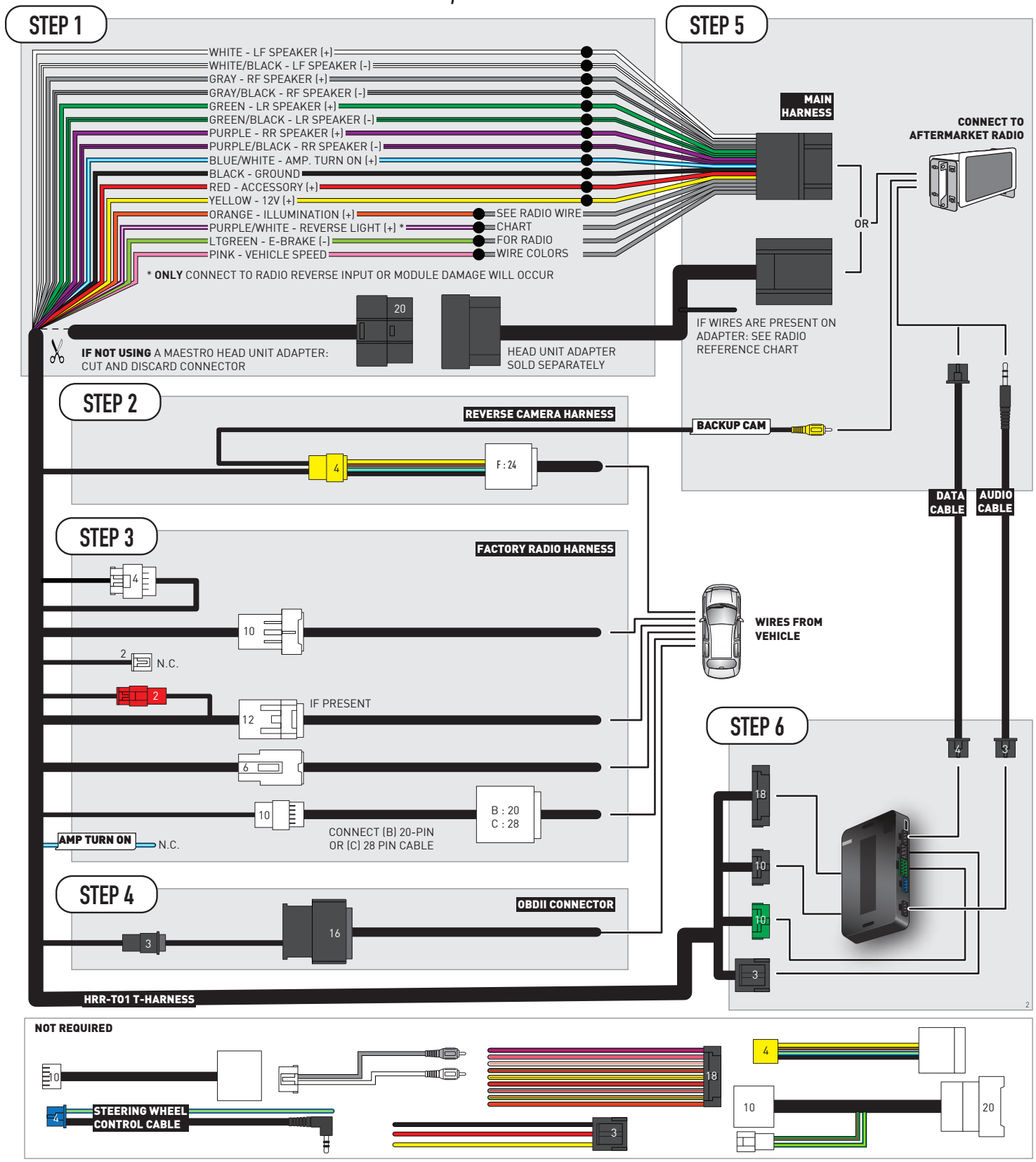
## STEP 6

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



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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2013-2014
## TOYOTA AVALON
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

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

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

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.
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**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

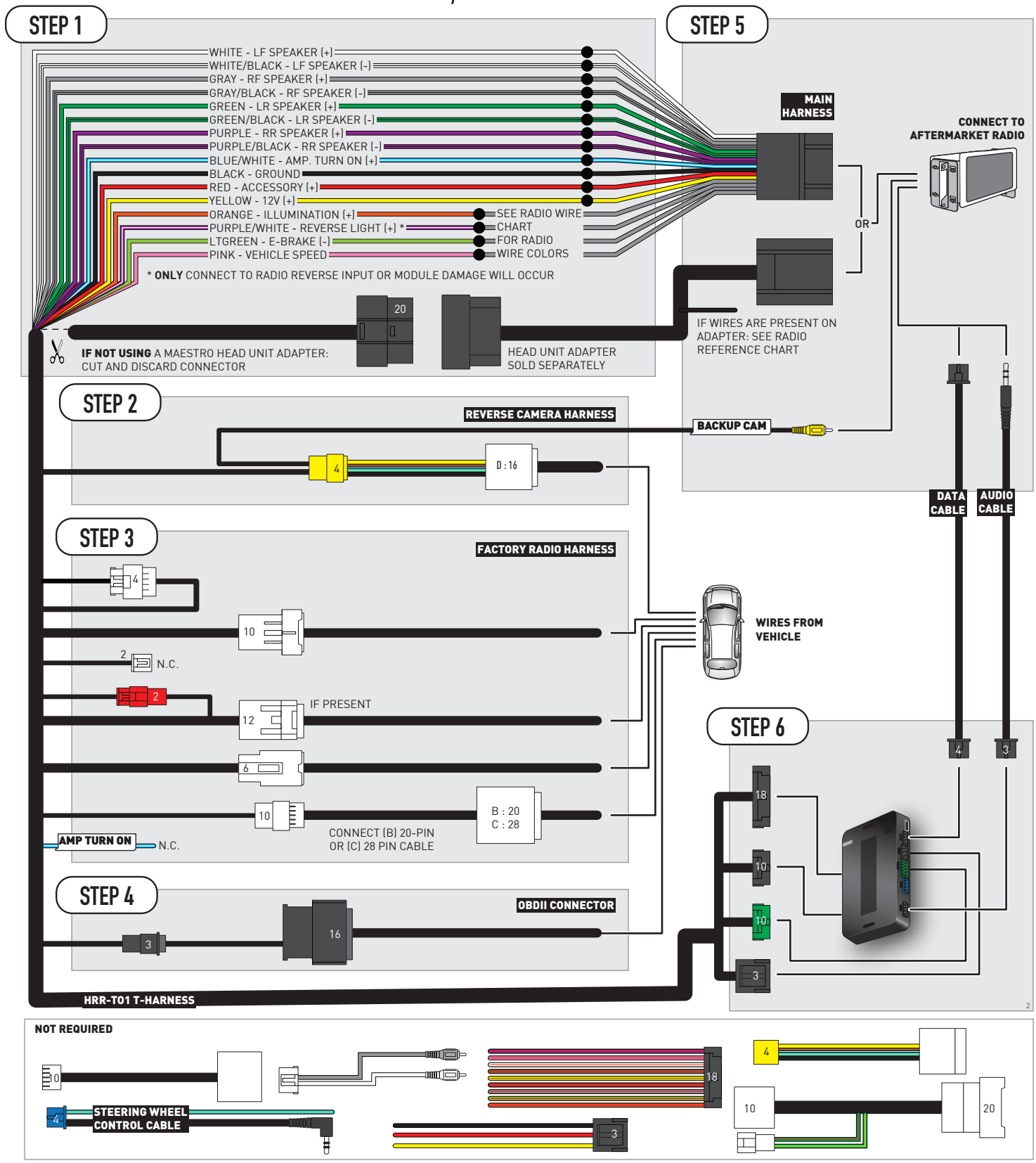
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
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| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

| ACC-HU-ALP1 Wire Description | Polarity | Wire Color on Adapter | Alpine Radio |
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| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
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| CAM | (+) | Green/Red | Refer to camera/radio manual |
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| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

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| PROBLEM | SOLUTION |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2018
## TOYOTA C-HR

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

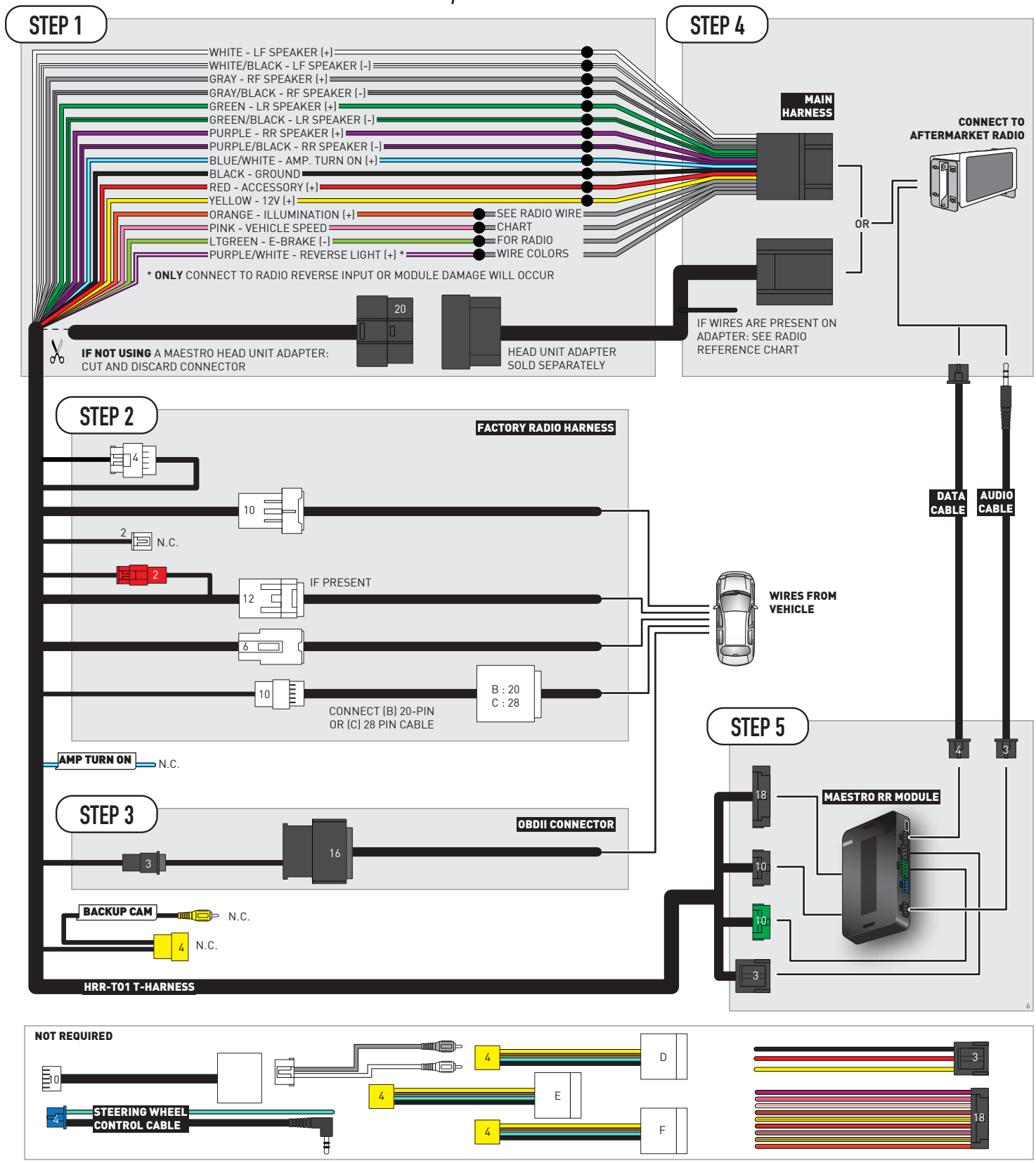
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

6

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

**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.**

# INSTALL GUIDE

## 2007-2011
## TOYOTA CAMRY
## WITH JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

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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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
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| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

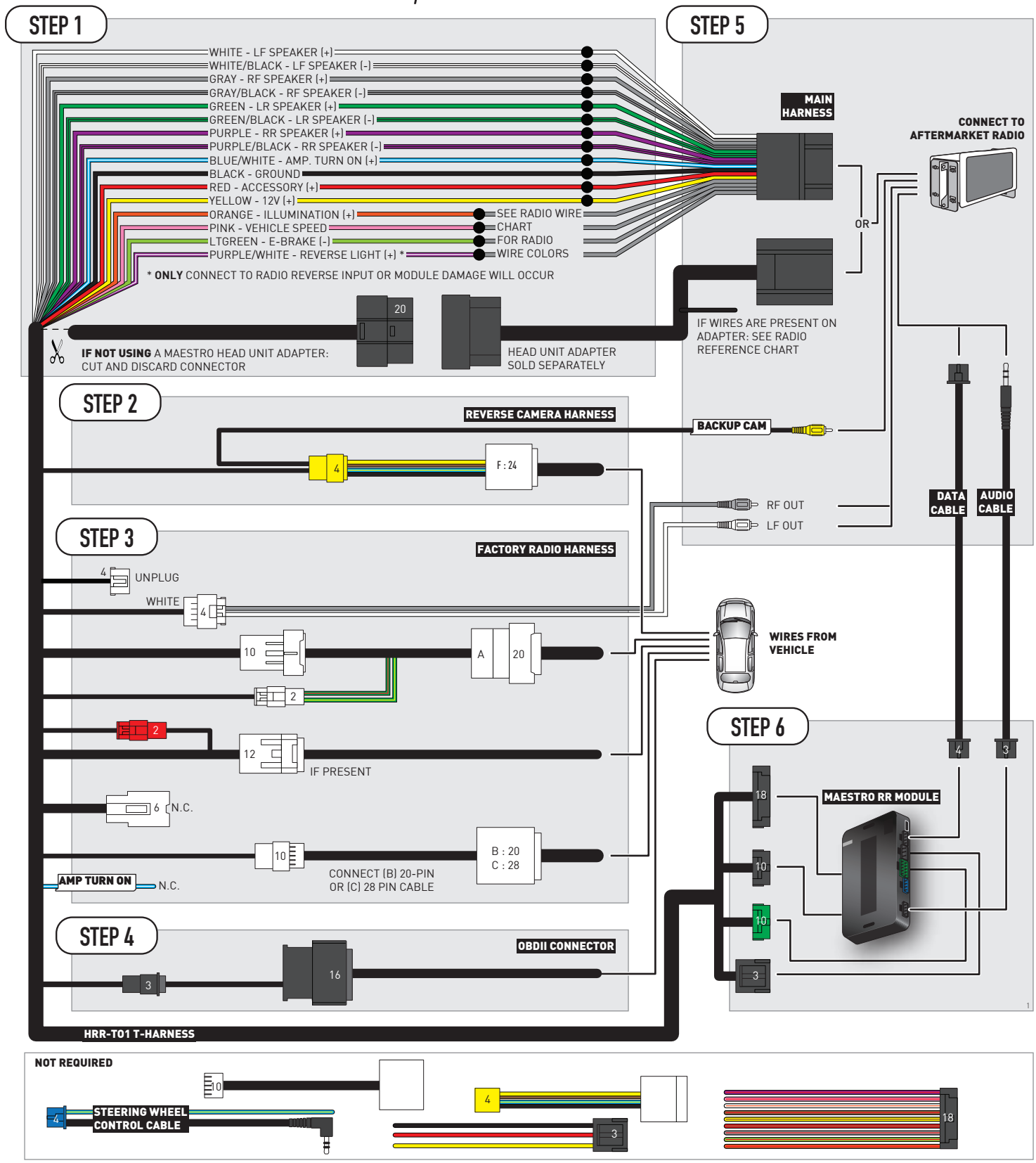
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2012-2014
## TOYOTA CAMRY
## WITHOUT FACTORY SCREEN

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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

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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

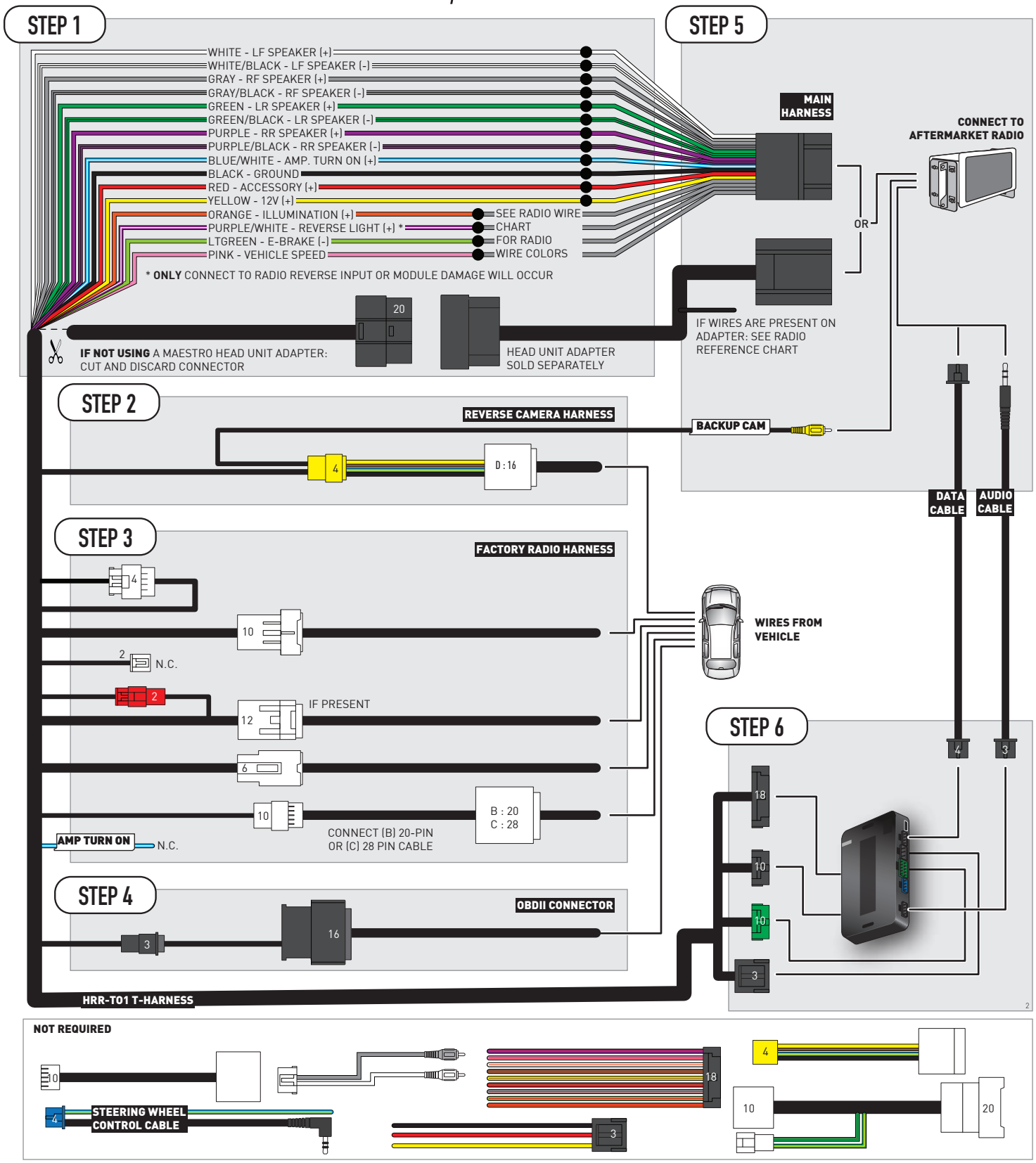
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
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| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

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# INSTALL GUIDE

## 2007-2011
## TOYOTA CAMRY
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

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**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# WELCOME

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

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

# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

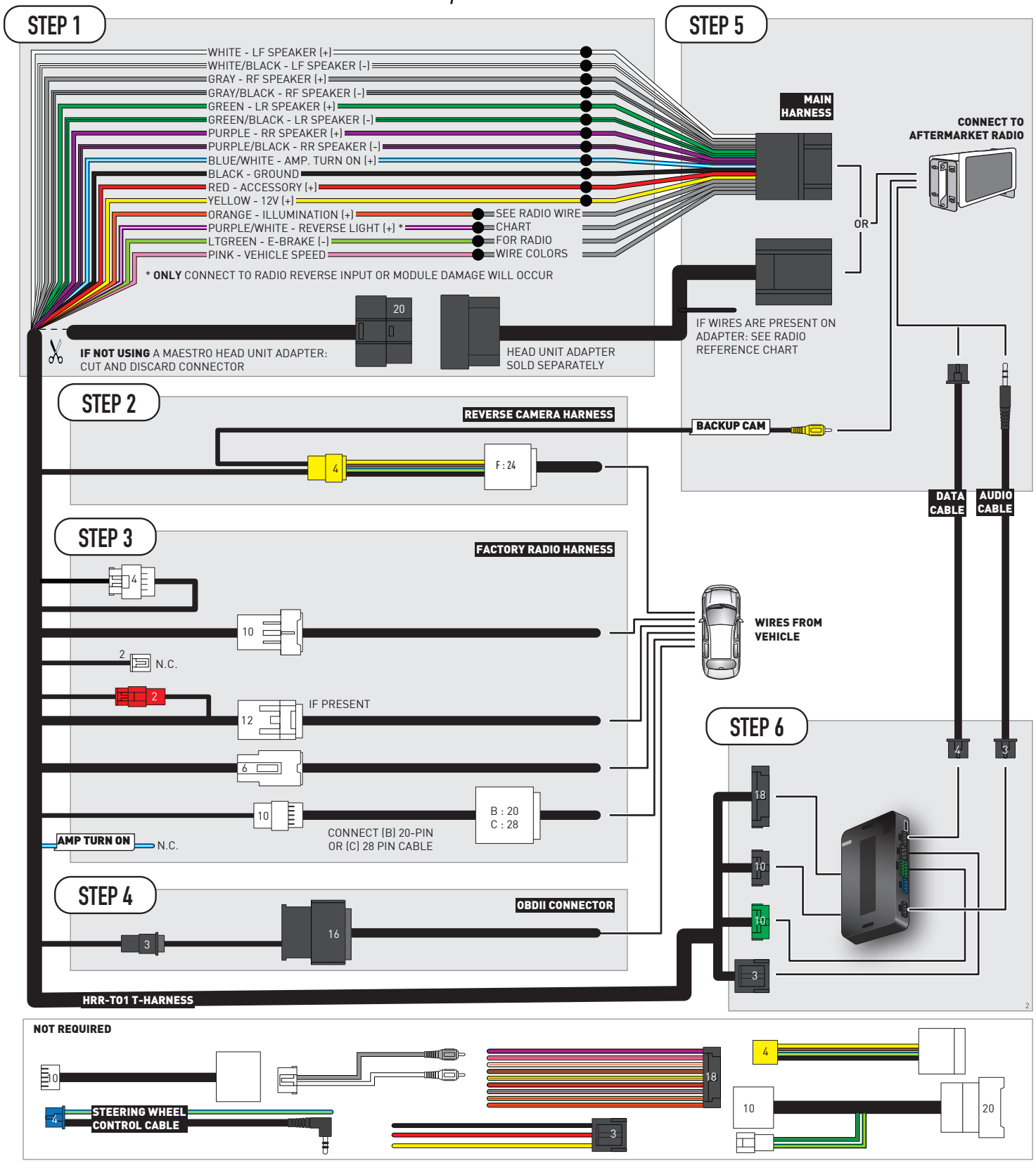
## STEP 6

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



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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2009-2013
## TOYOTA COROLLA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# WELCOME

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# ADDITIONAL INFORMATION AND ACCESSORIES

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

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

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

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

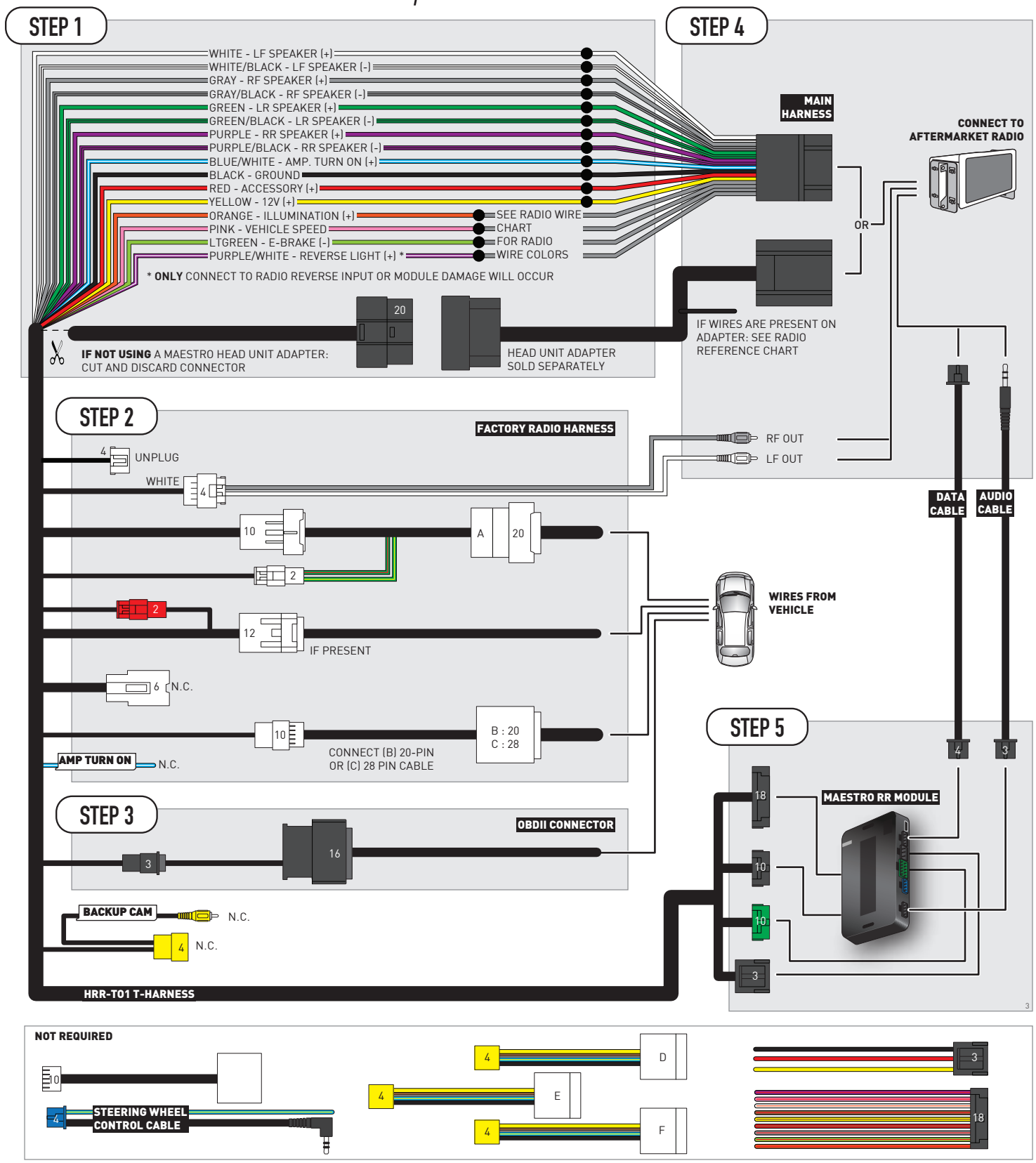
## STEP 5

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2014-2015
## TOYOTA COROLLA
### WITHOUT FACTORY SCREEN

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# WELCOME

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
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| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

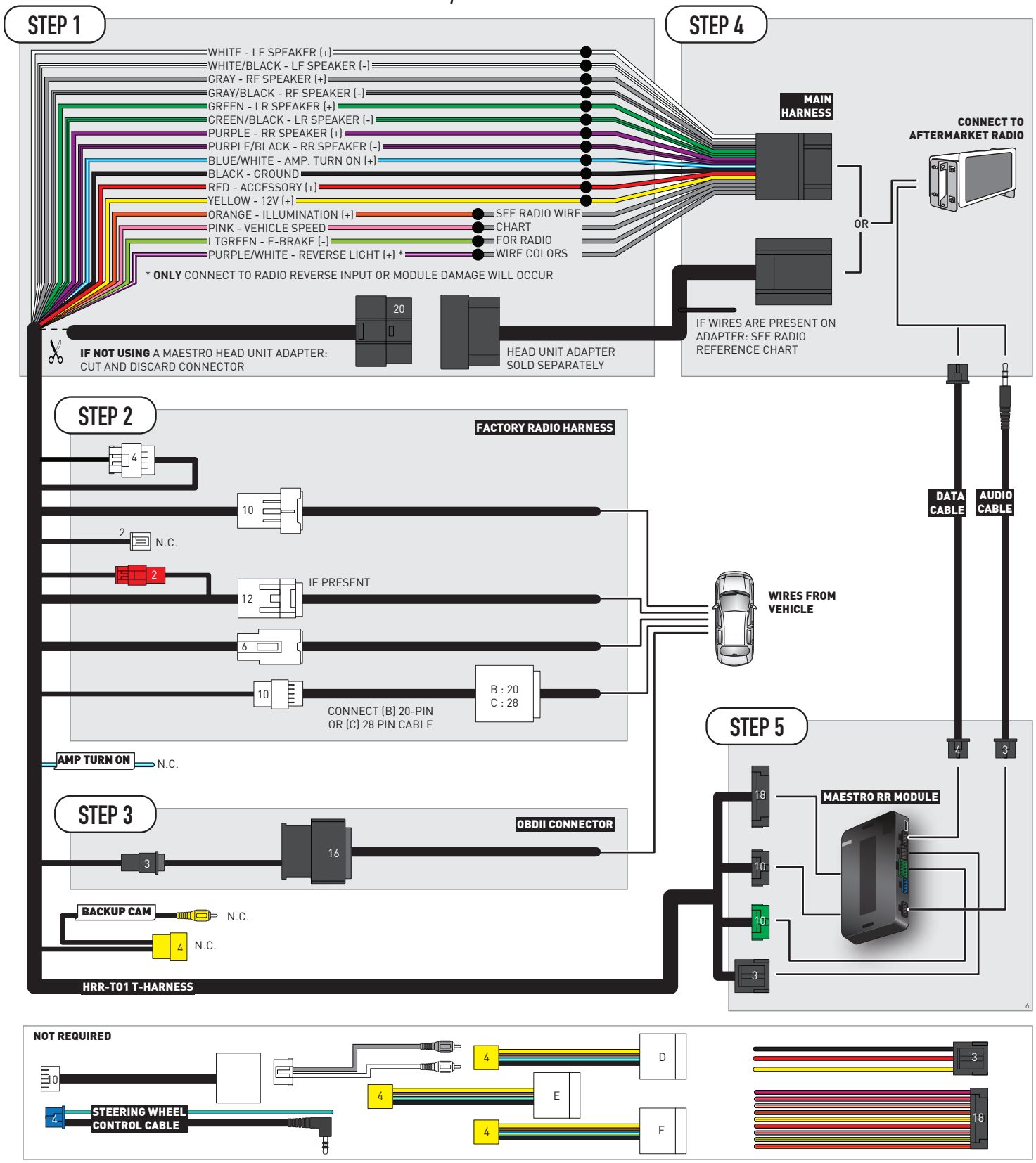
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

6

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
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| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
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# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

## 2009-2013
## TOYOTA COROLLA
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

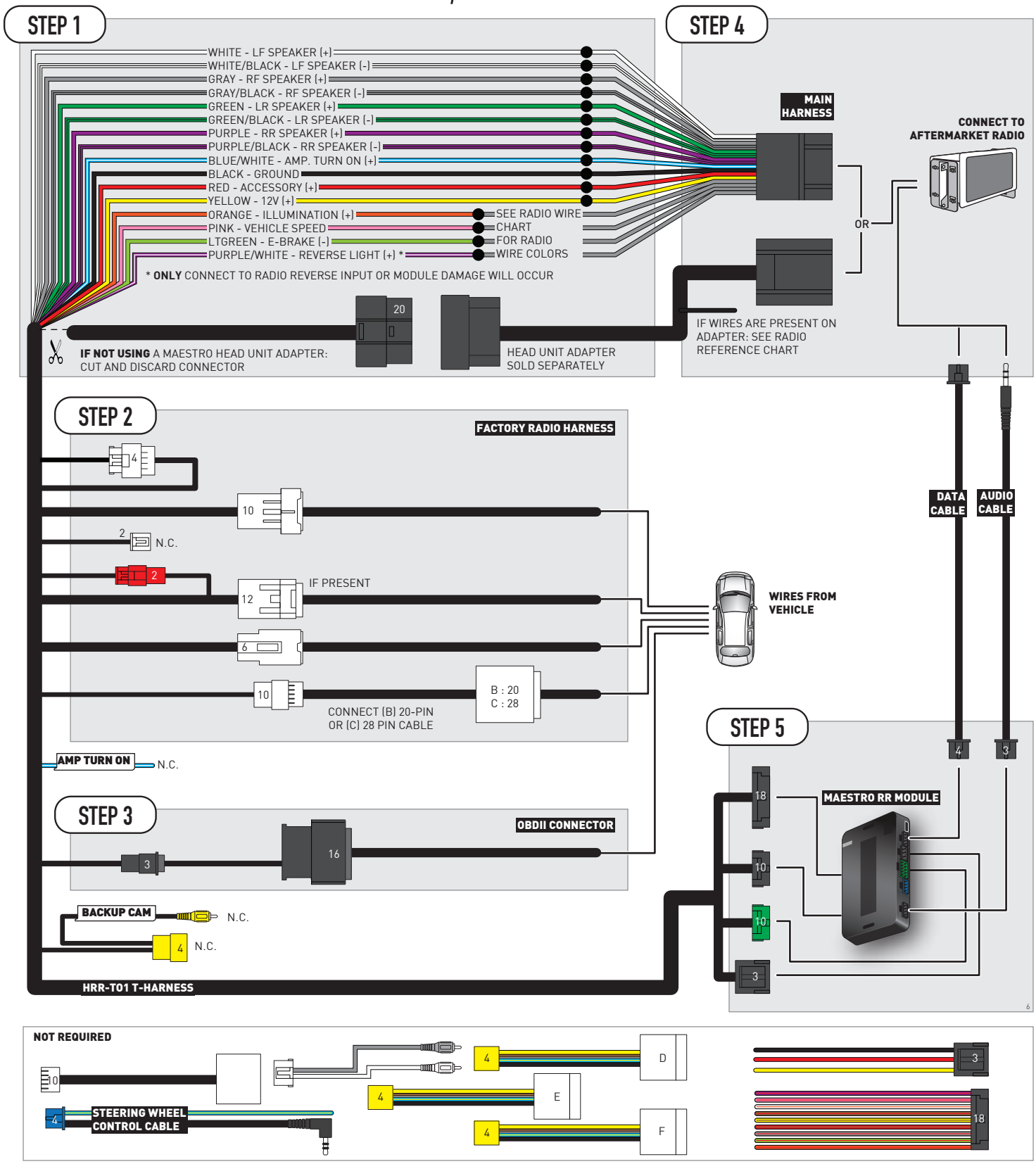
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

6

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2017-2018
## TOYOTA COROLLA IM

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

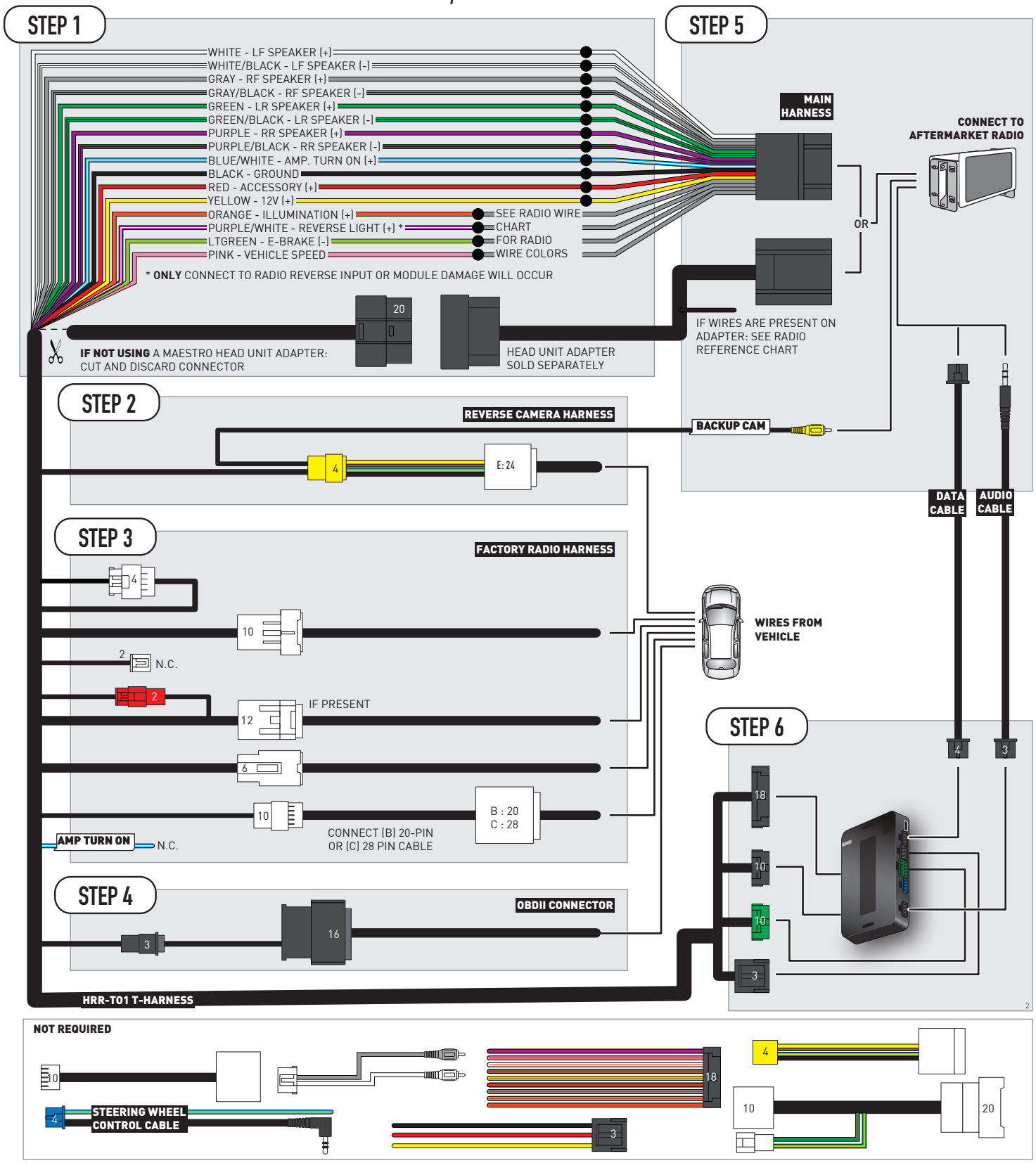
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2006-2014
## TOYOTA FJ CRUISER
## WITH JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

**HEAD UNIT ADAPTER:**
**ACC-HU-**PIO1, SON1, KEN1, KEN2, ALP1

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

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

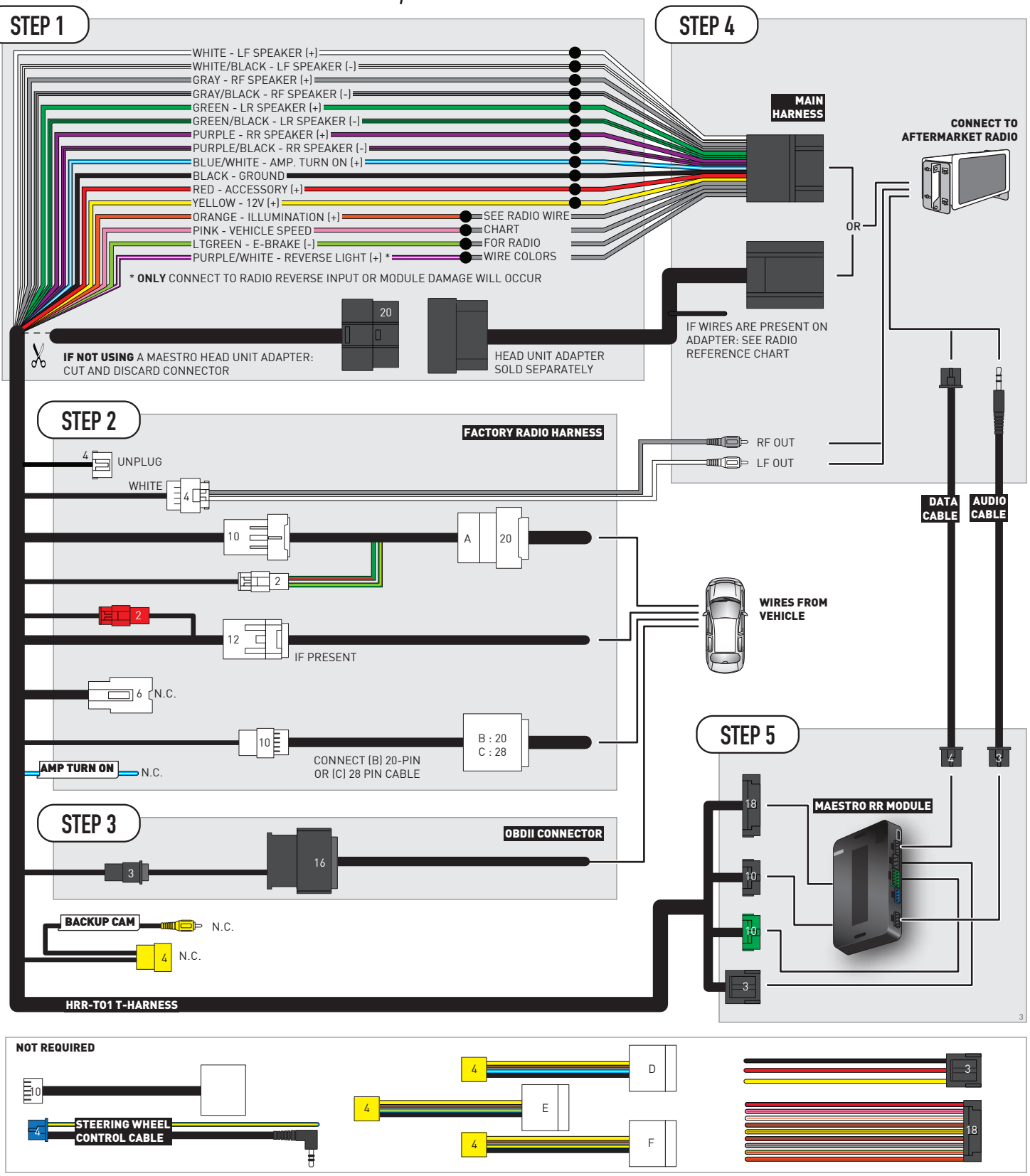
## STEP 5

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



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# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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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| ● | | 1 GREEN flash | After radio boots up : Normal operation. |
| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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# INSTALL GUIDE

## 2006-2014
## TOYOTA FJ CRUISER
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
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| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

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

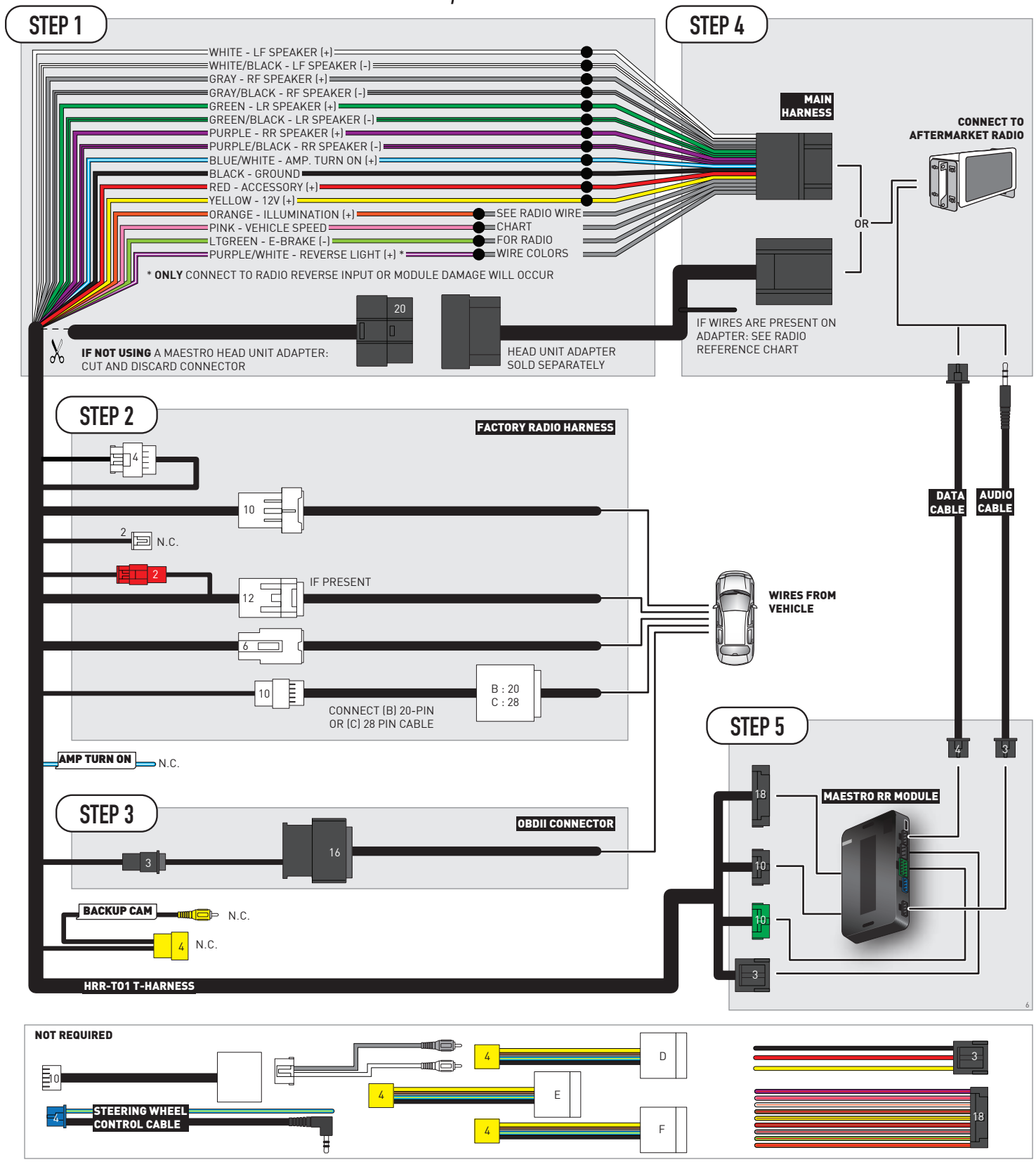
## STEP 5

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2008-2012
## TOYOTA HIGHLANDER
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# WELCOME

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

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

# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

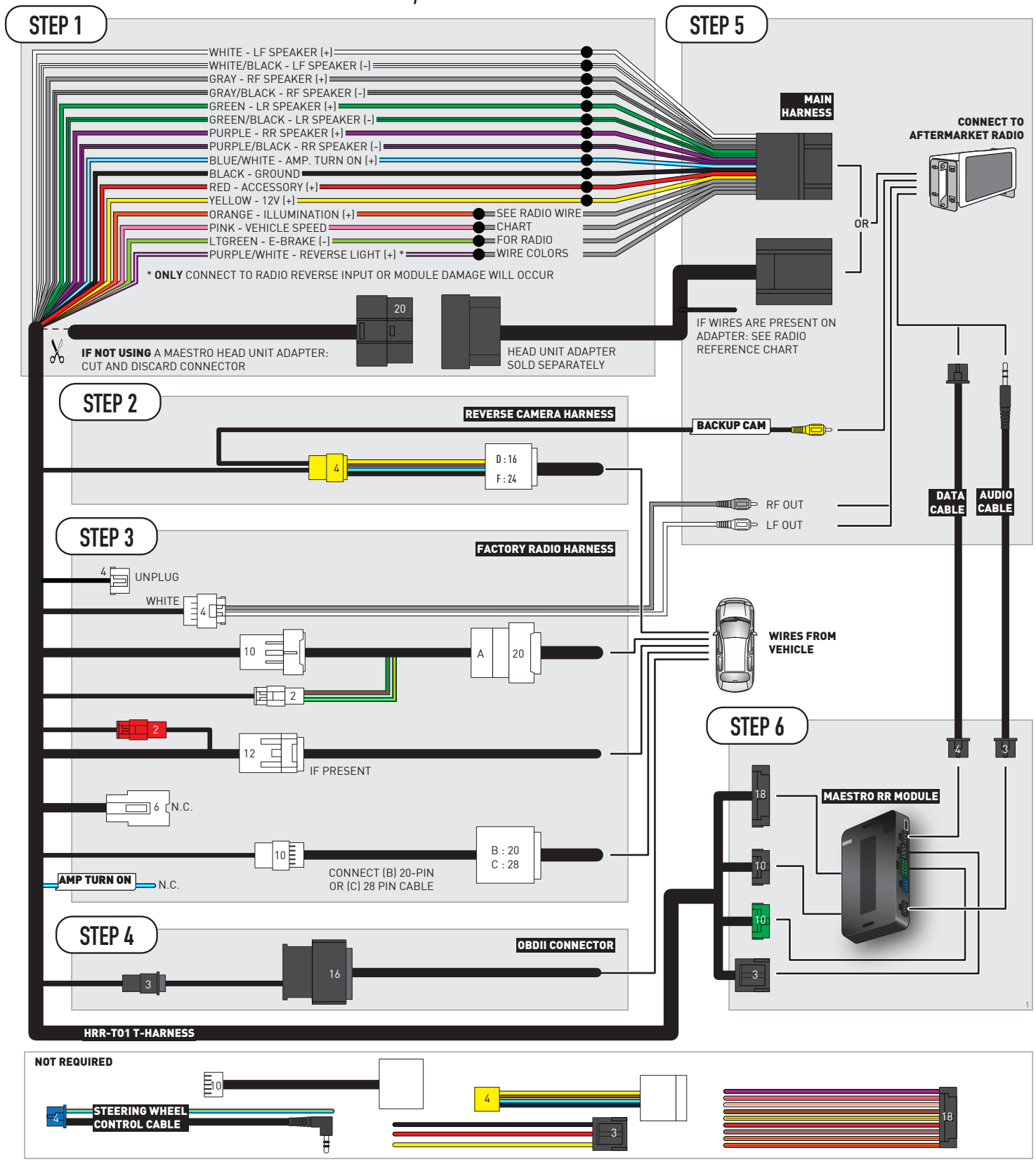
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2013
## TOYOTA HIGHLANDER
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

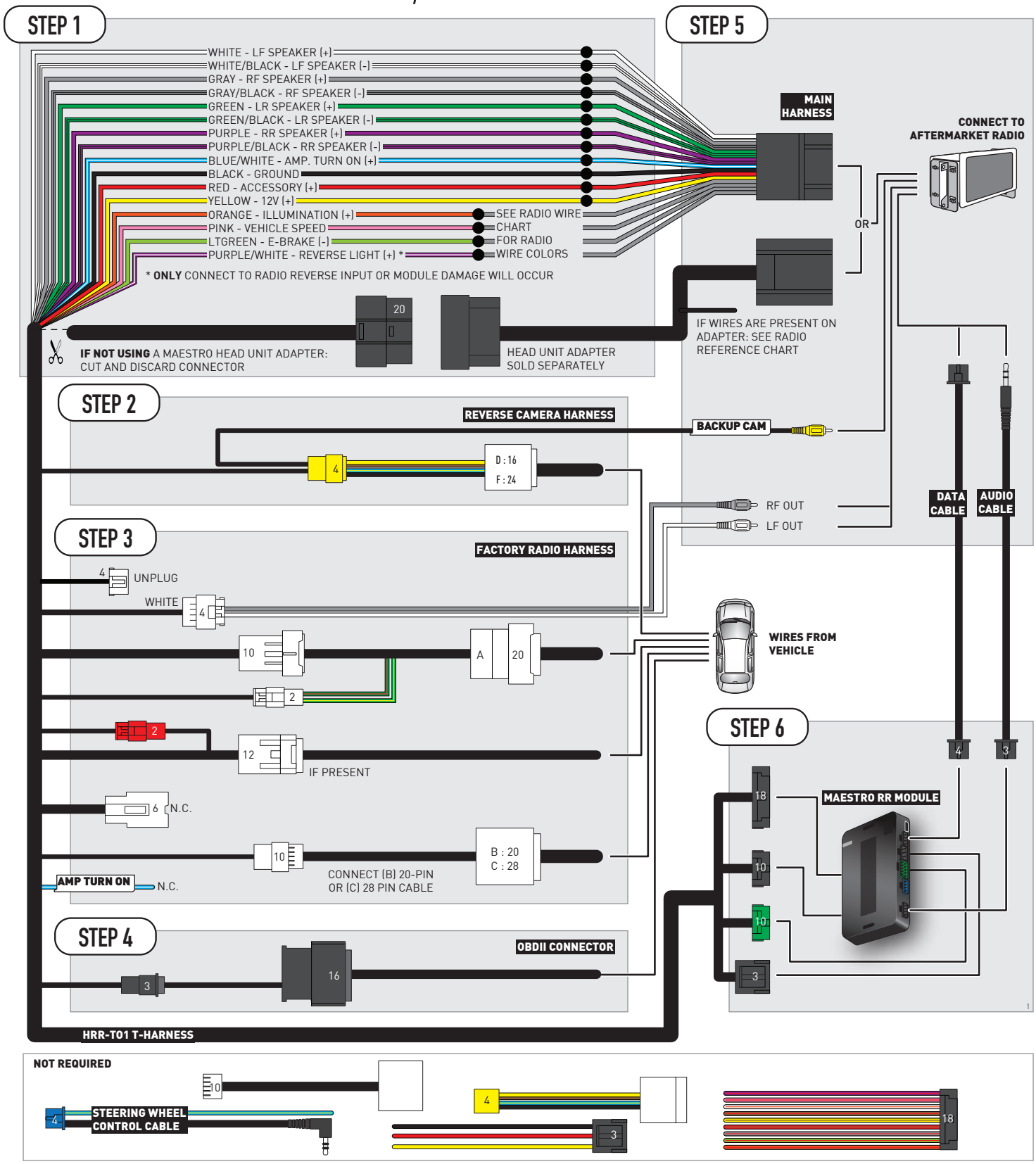
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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# INSTALL GUIDE

## 2008-2012
## TOYOTA HIGHLANDER
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

iDatalink Maestro RR or RR2 Radio Replacement Interface
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maestro.support@idatalink.com

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| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

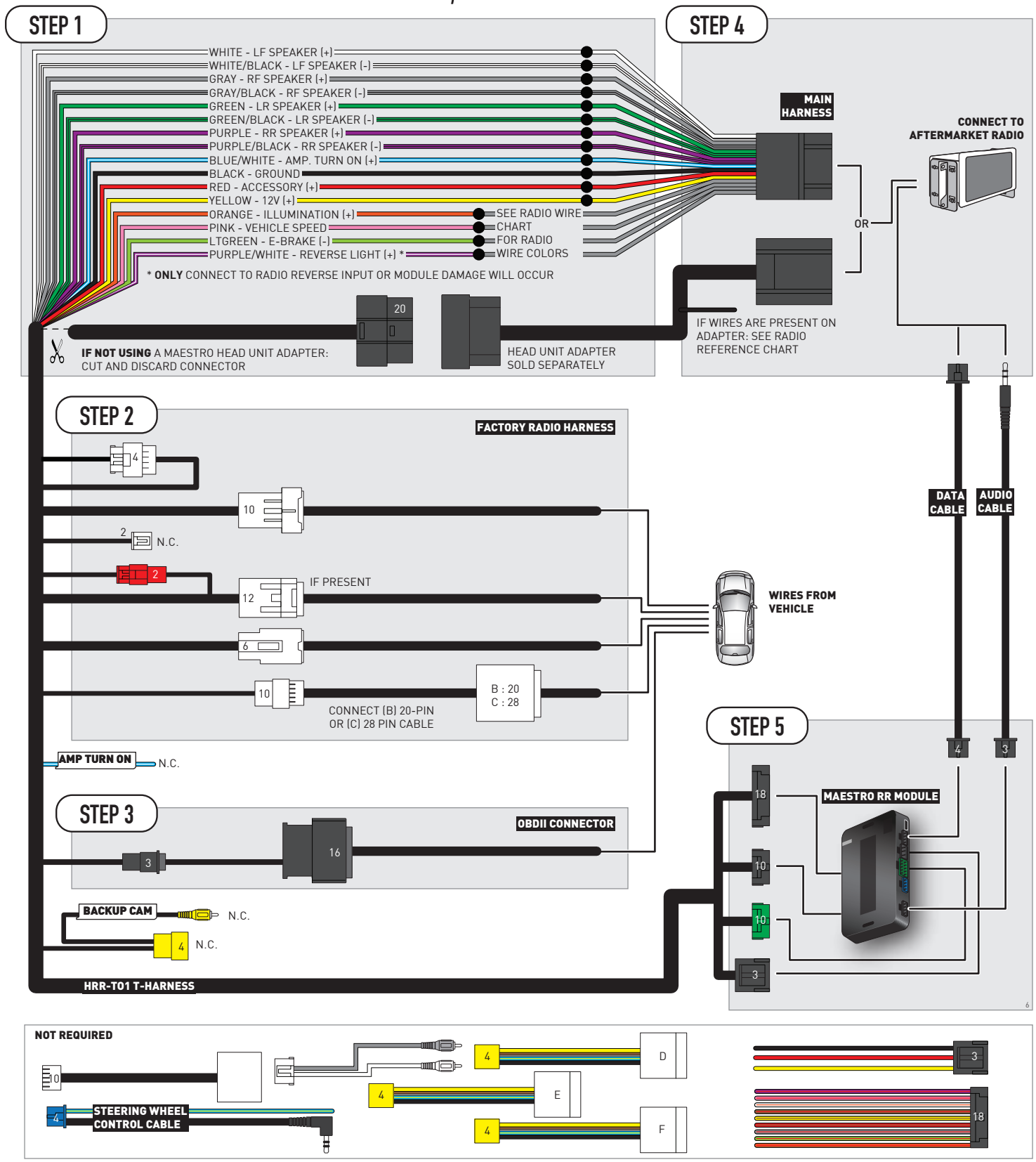
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

6

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
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| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2013
## TOYOTA HIGHLANDER
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

**HEAD UNIT ADAPTER:**
**ACC-HU-**PIO1, SON1, KEN1, KEN2, ALP1

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

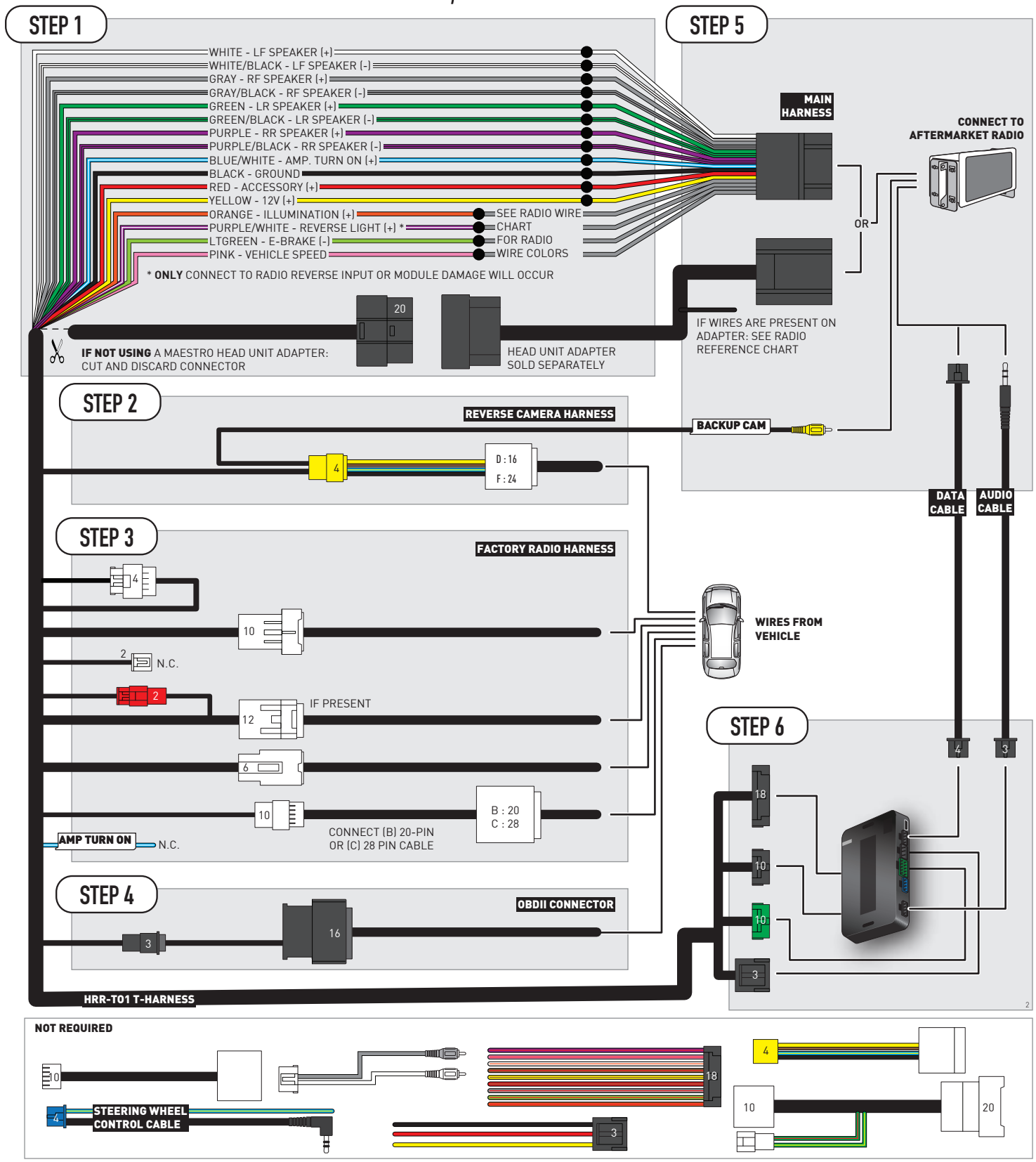
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2013-2014
## TOYOTA MATRIX

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

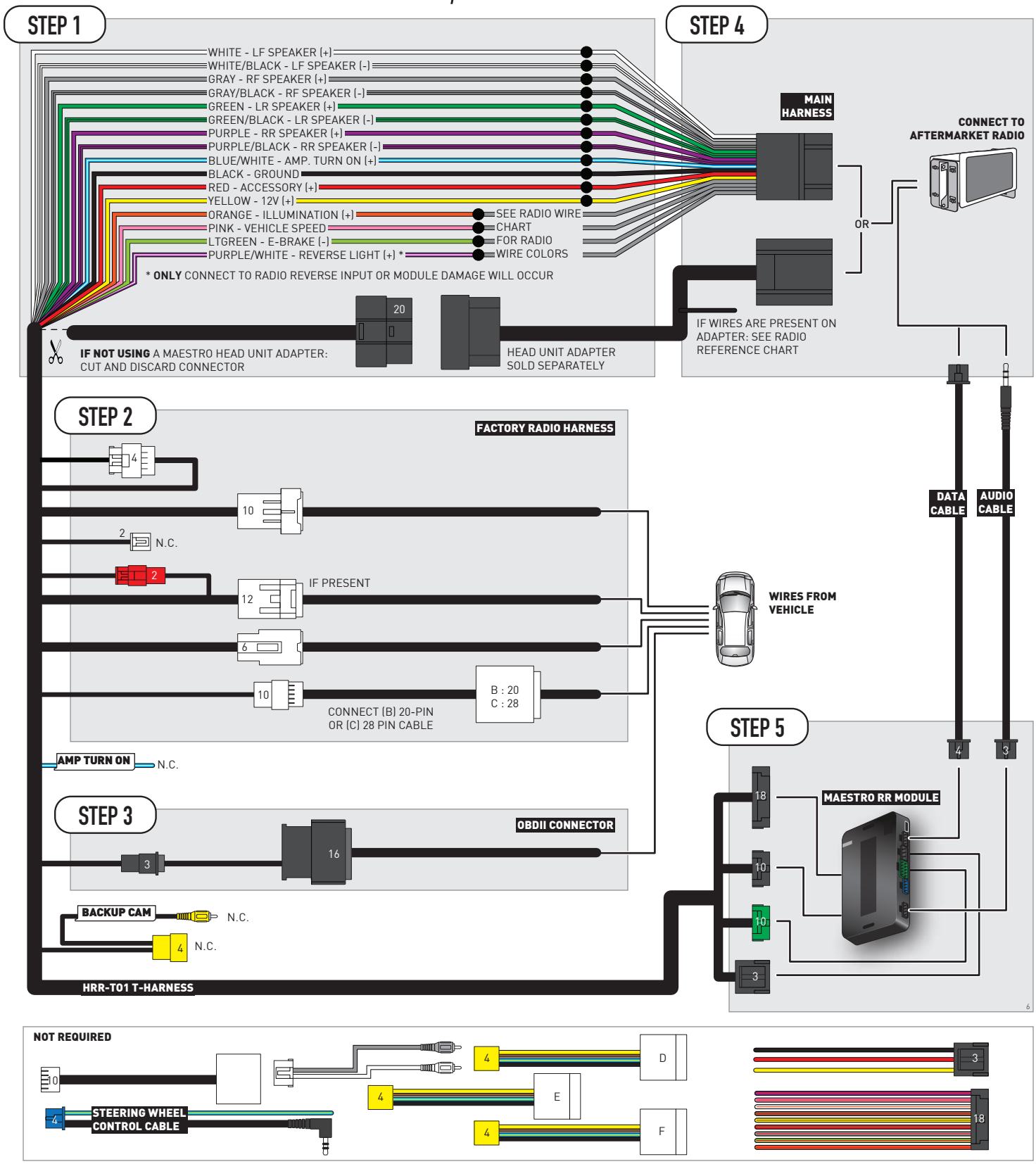
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2009-2012
## TOYOTA MATRIX
## WITH JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

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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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

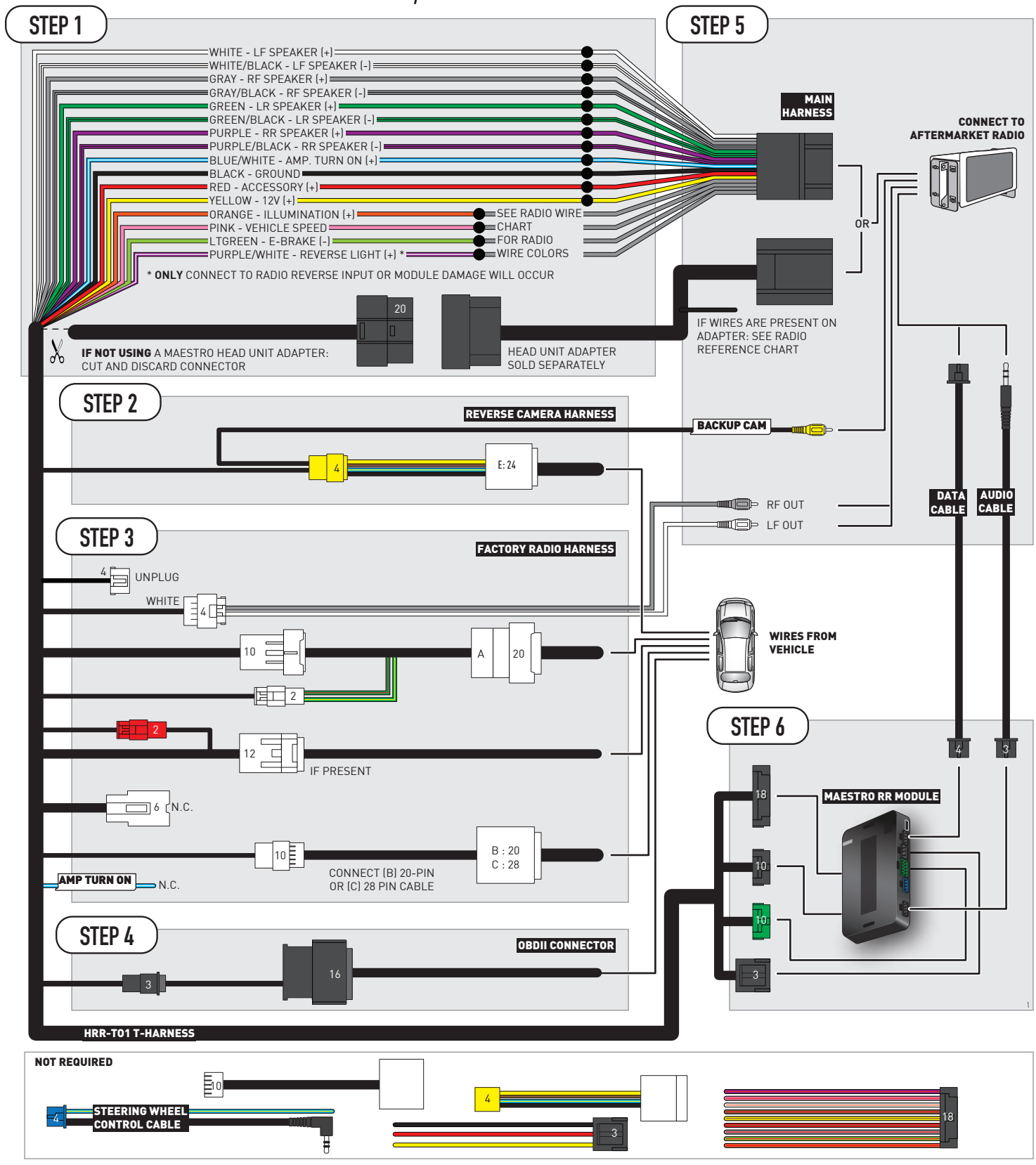
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
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# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
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Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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

**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.**

# INSTALL GUIDE

## 2009-2012
## TOYOTA MATRIX
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

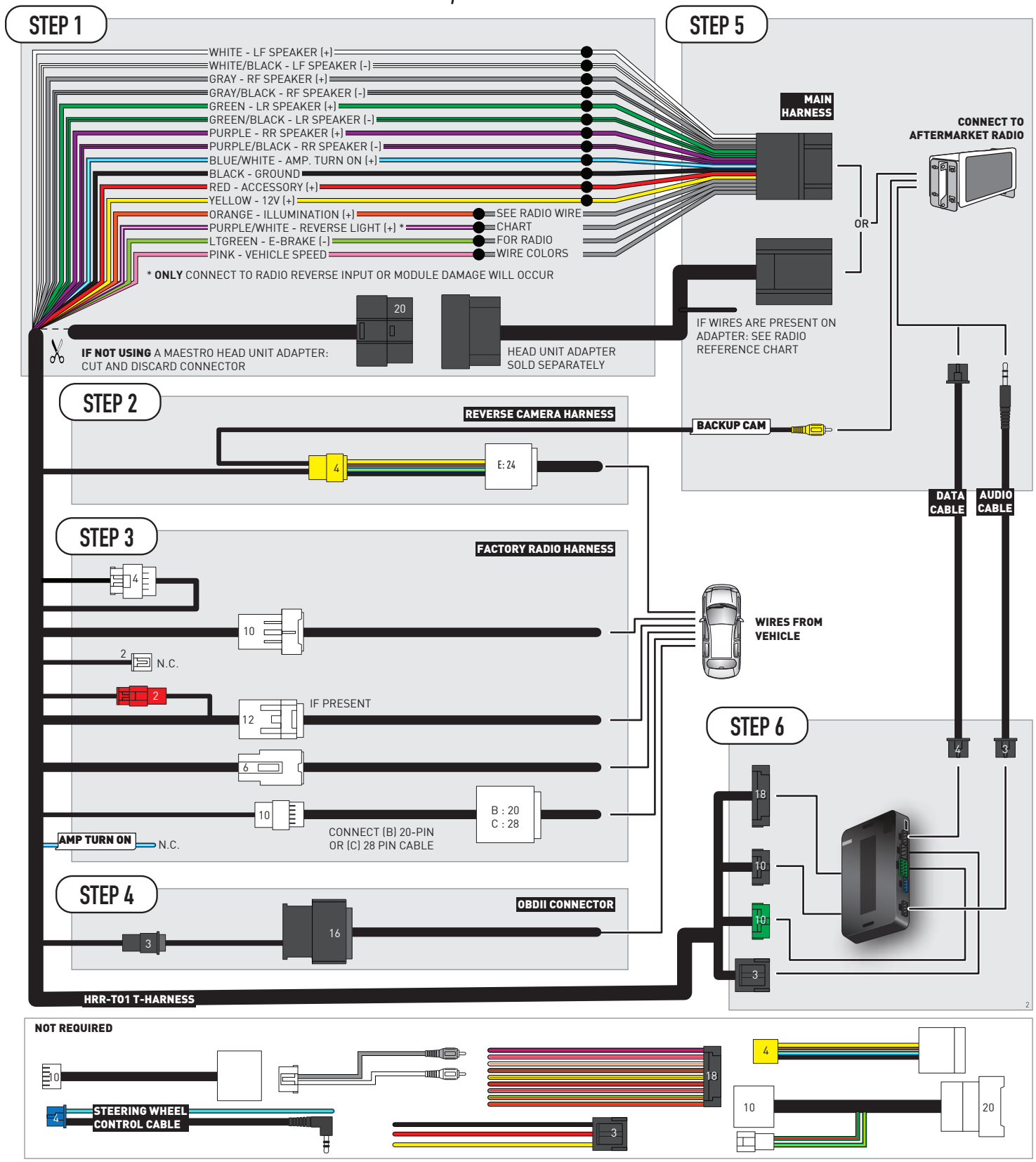
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

MAESTRO RR RESET PROCEDURE:

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

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Email: maestro.support@idatalink.com

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# INSTALL GUIDE

## 2010-2014
## TOYOTA PRIUS
## WITH JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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iDatalink Maestro HRR-TO1 Installation Harness

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

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

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

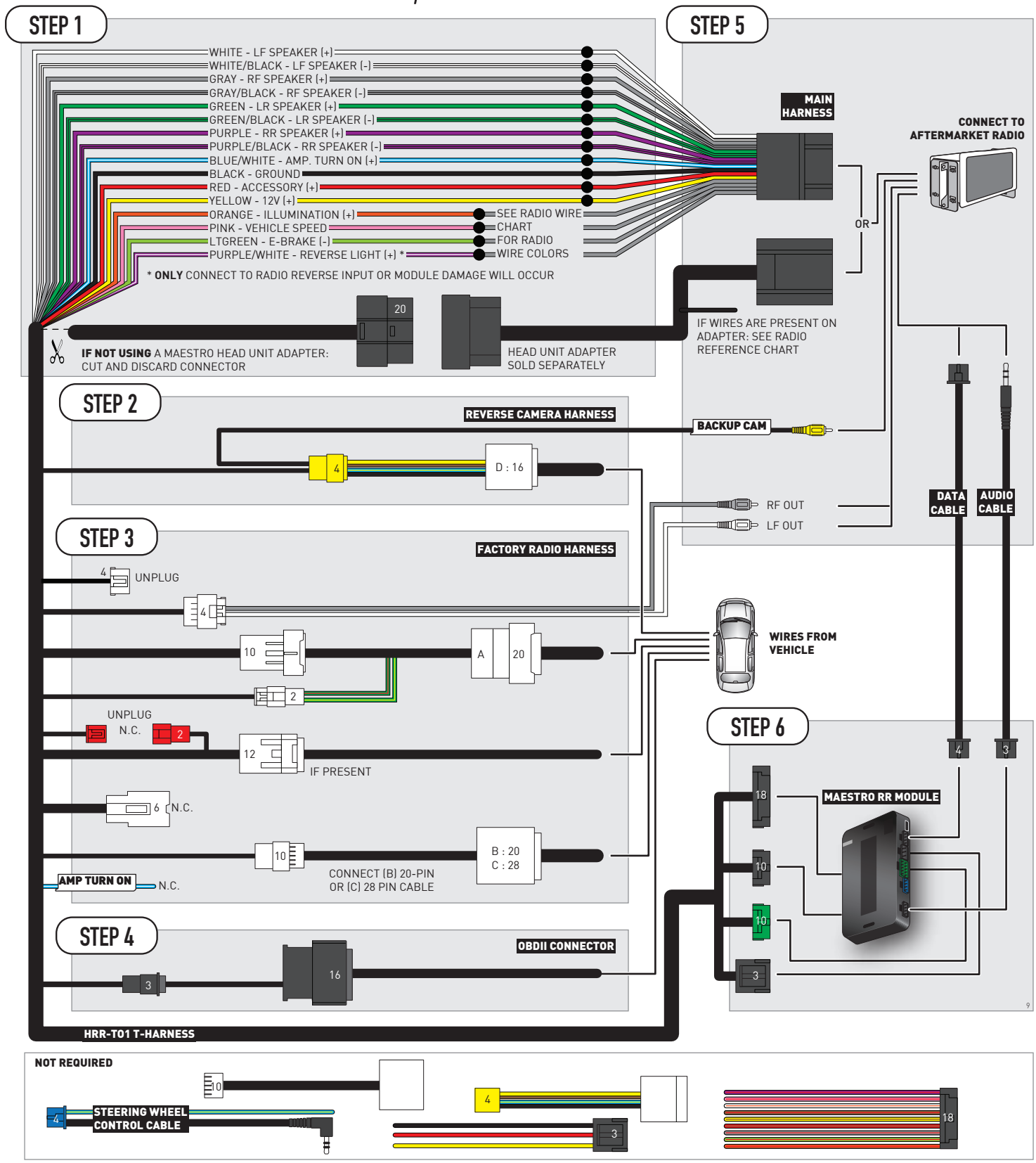
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

9

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

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| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| ● 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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| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

MAESTRO RR RESET PROCEDURE:

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TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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# INSTALL GUIDE

## 2015
## TOYOTA PRIUS
### WITH JBL WITHOUT NAV

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

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| | |
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- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to HRR adapter cable **D**, then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram. Unplug 2-pin red connectors.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

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- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
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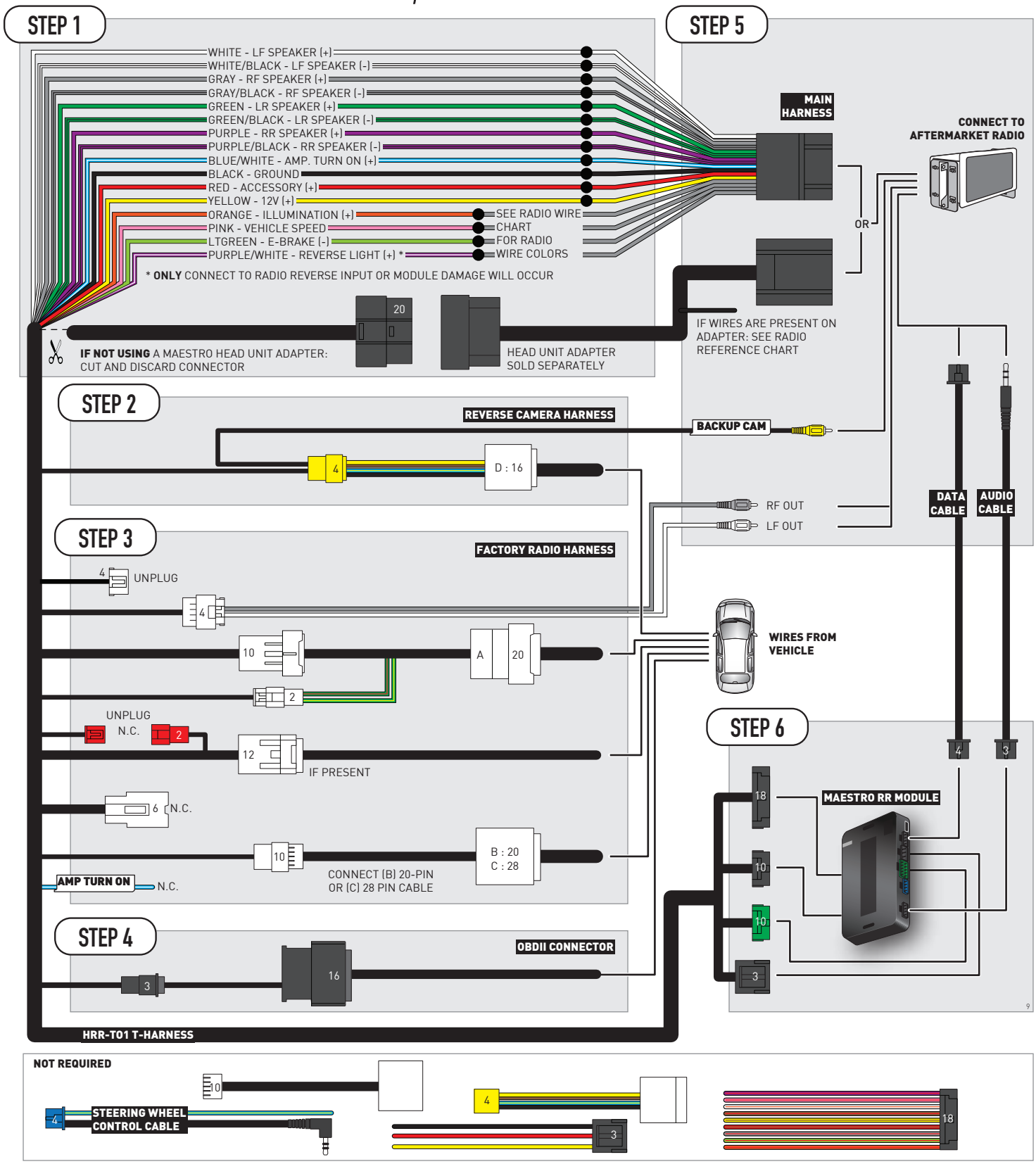
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## STEP 6

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9

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

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| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

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# INSTALL GUIDE

## 2010-2014
## TOYOTA PRIUS
### WITHOUT JBL

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




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|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

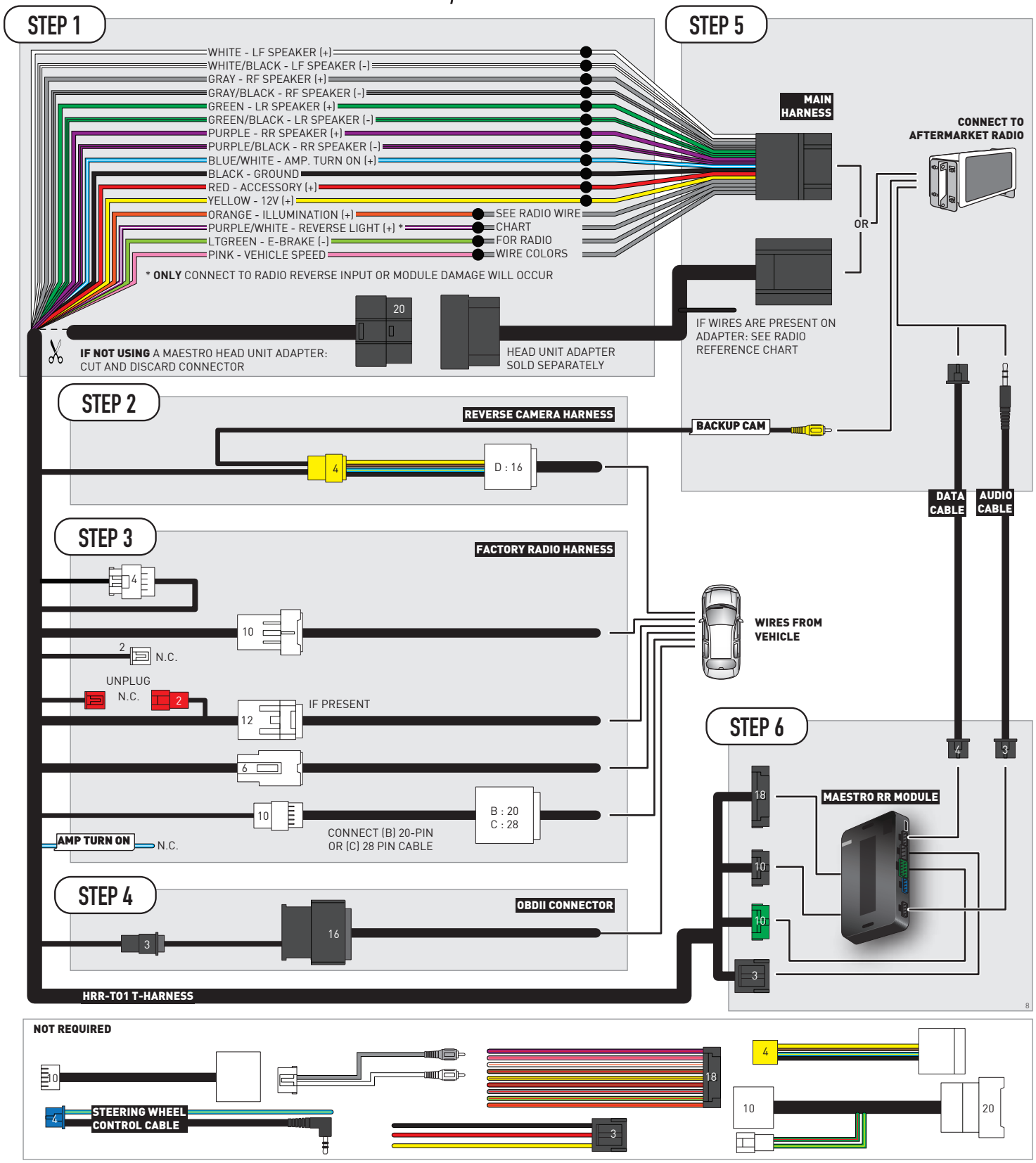
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2015
## TOYOTA PRIUS
### WITHOUT JBL WITHOUT NAV

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

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# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

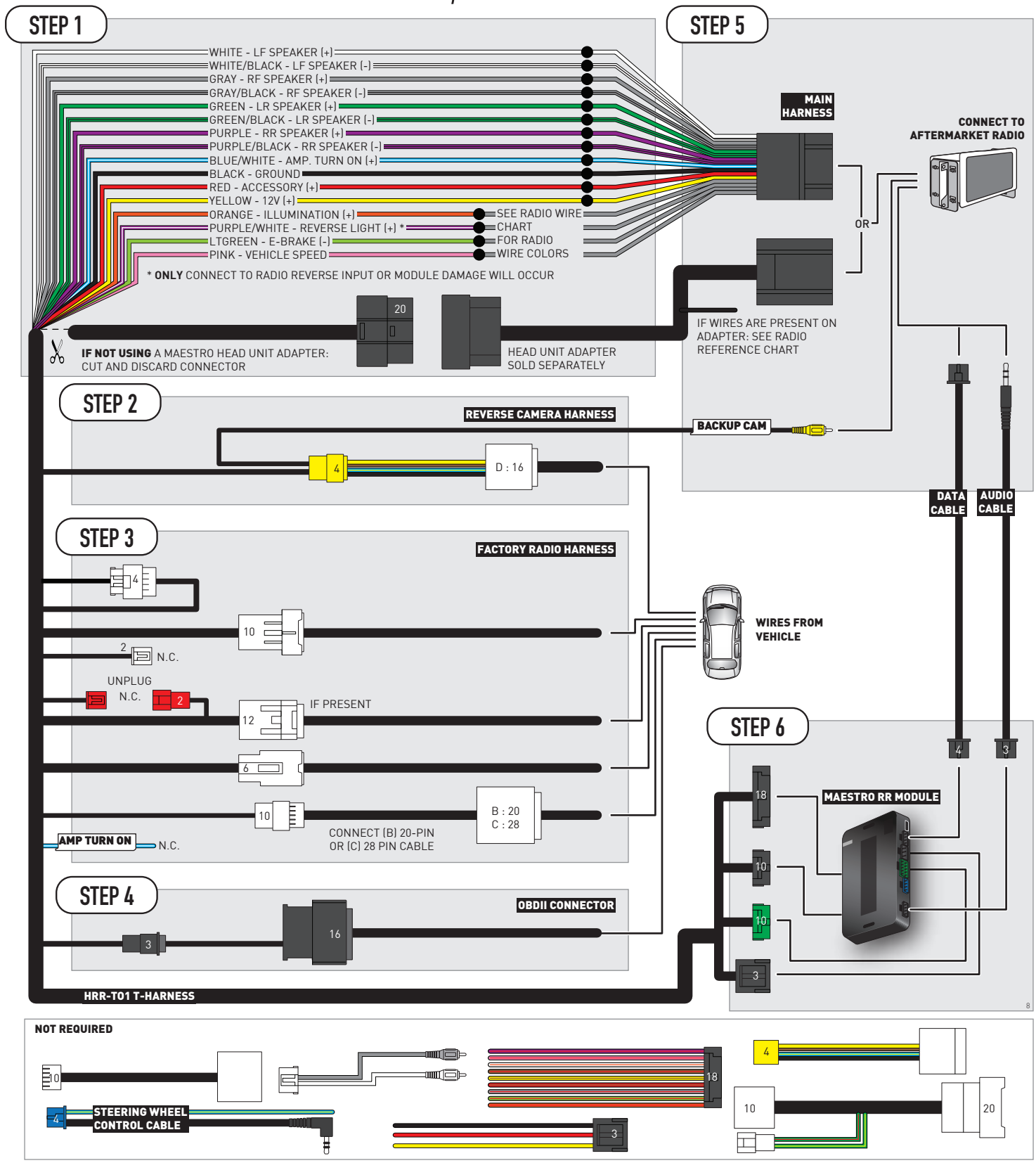
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2012
## TOYOTA RAV 4

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

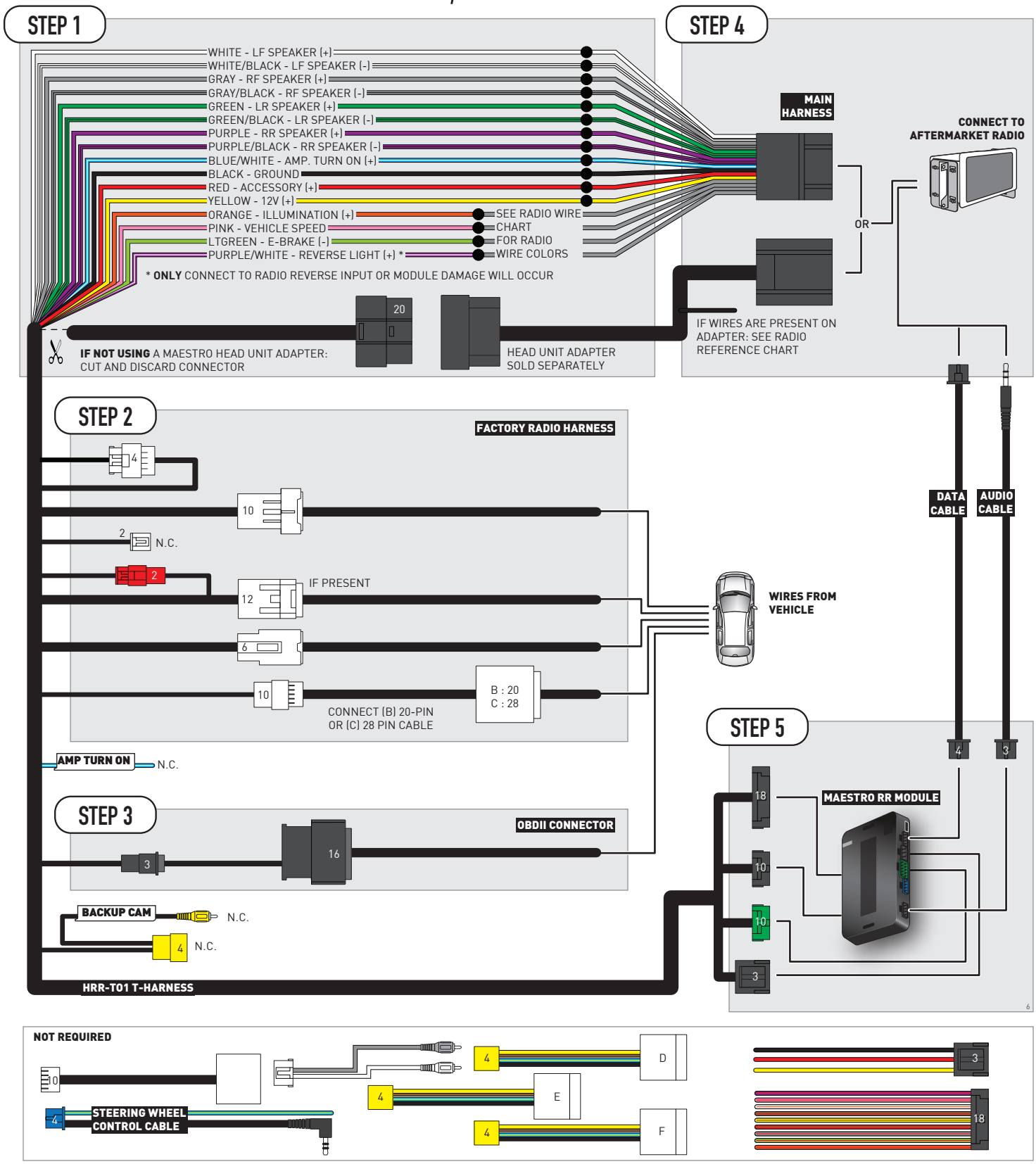
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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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| ● | | 1 GREEN flash | After radio boots up : Normal operation. |
| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2006-2011
## TOYOTA RAV 4
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

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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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
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| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

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

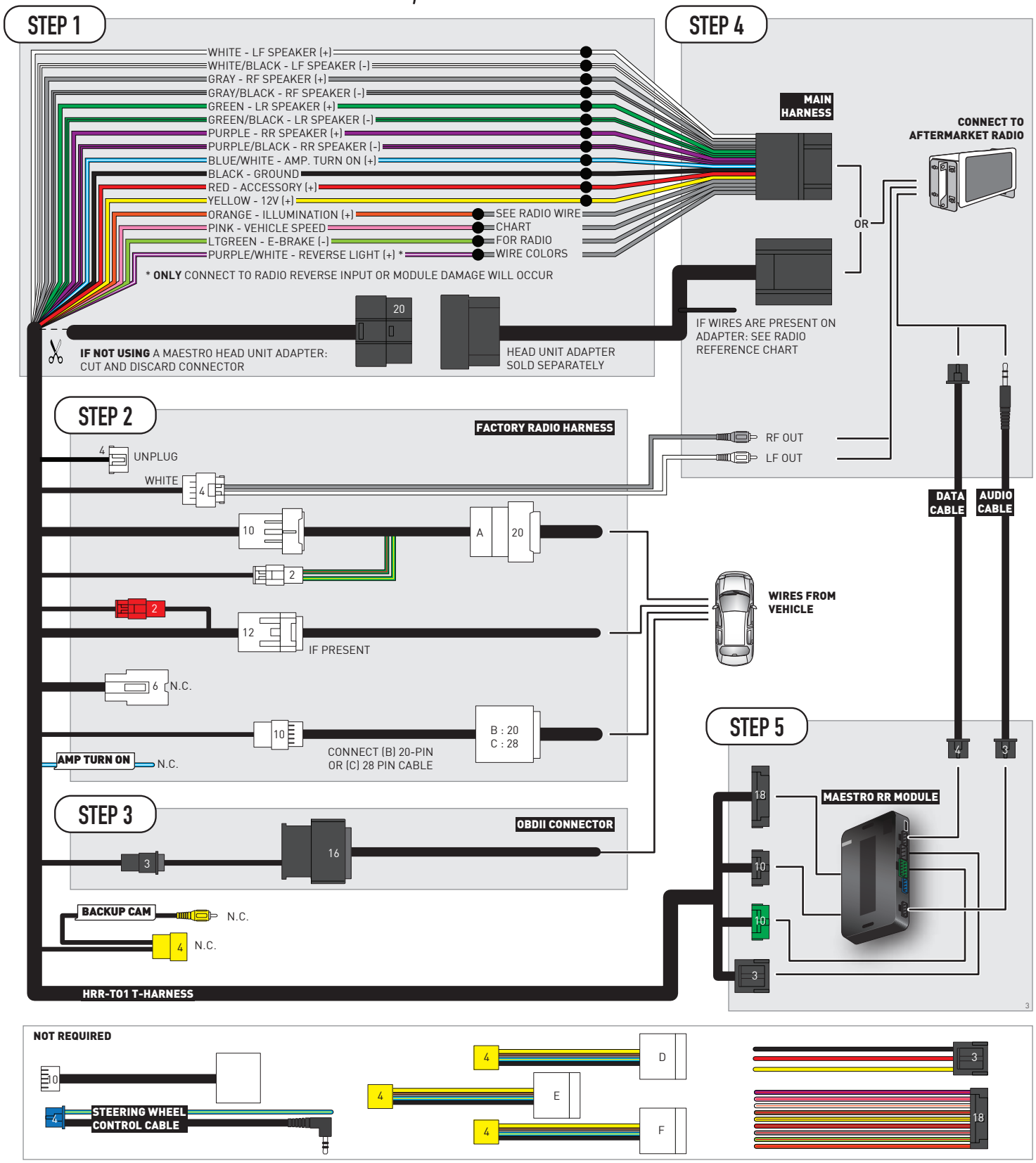
## STEP 5

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



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# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2006-2011
## TOYOTA RAV 4
## WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

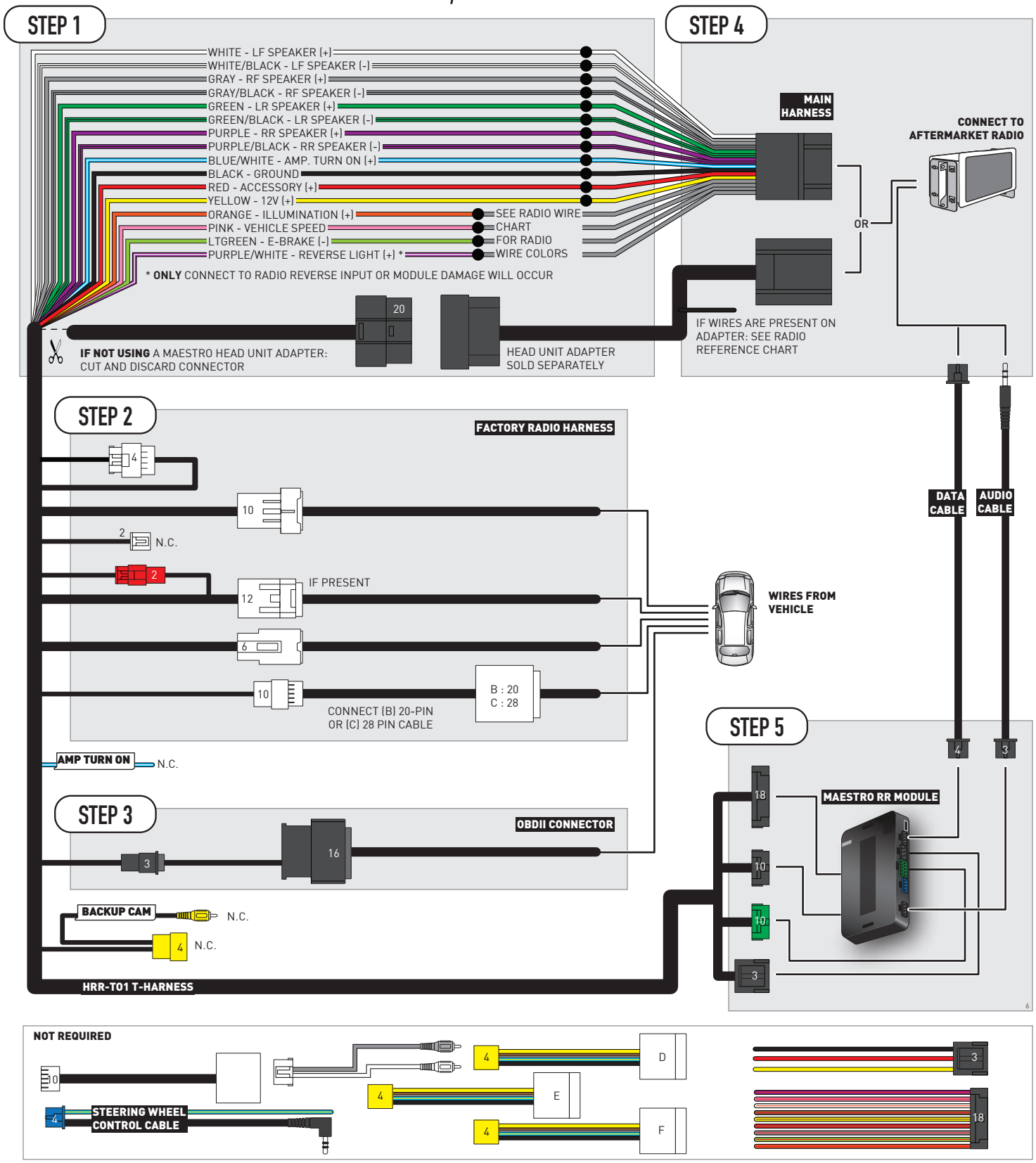
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2008-2013
## TOYOTA SEQUOIA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | | |
|---|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides | |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide | |
| Installation, product information, vehicle specific videos. | VIDEO HELP | |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH | |
| Software to program module. | WEBLINK | |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

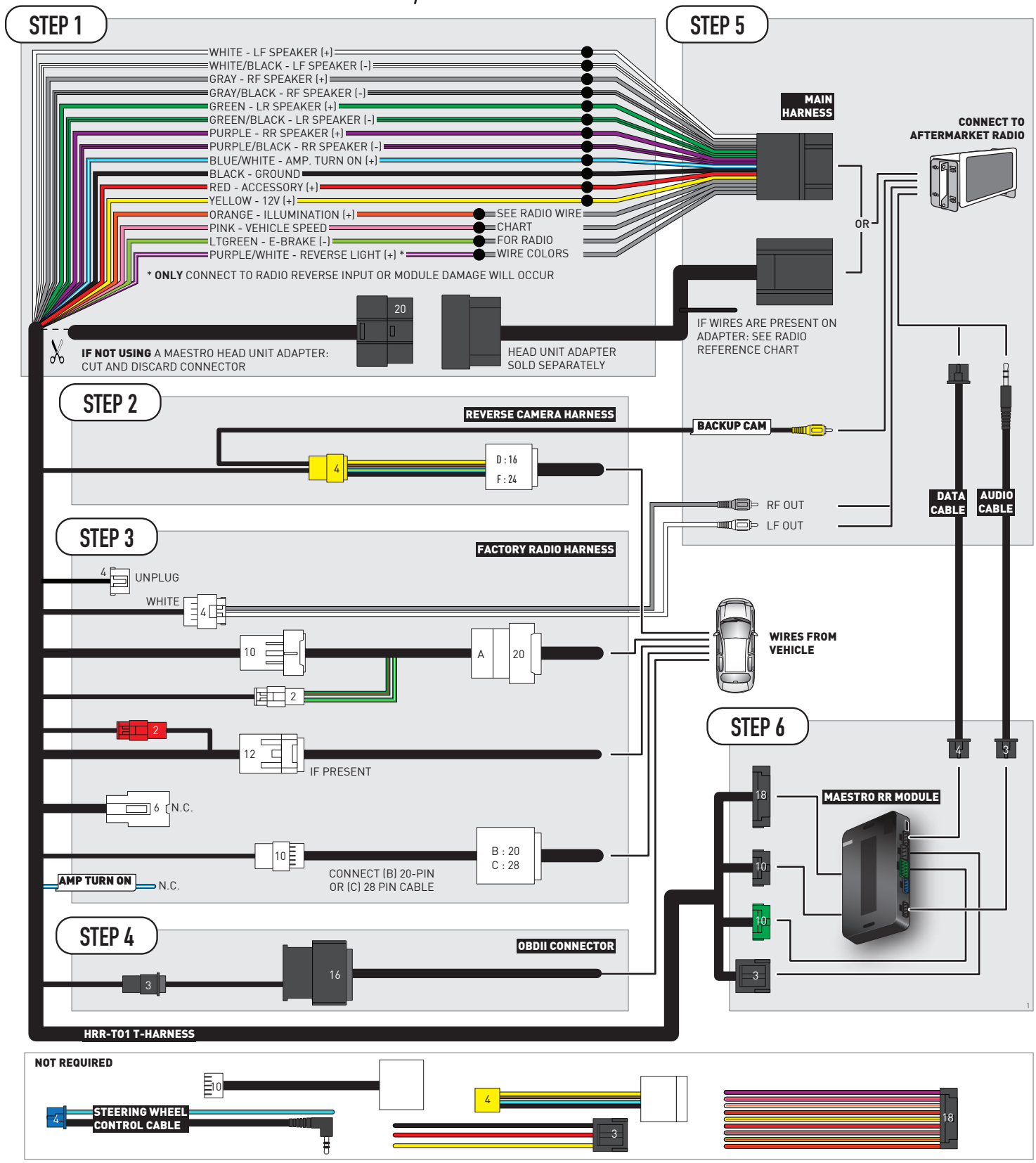
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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# INSTALL GUIDE

## 2008-2013
## TOYOTA SEQUOIA
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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iDatalink Maestro HRR-TO1 Installation Harness

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

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

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

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

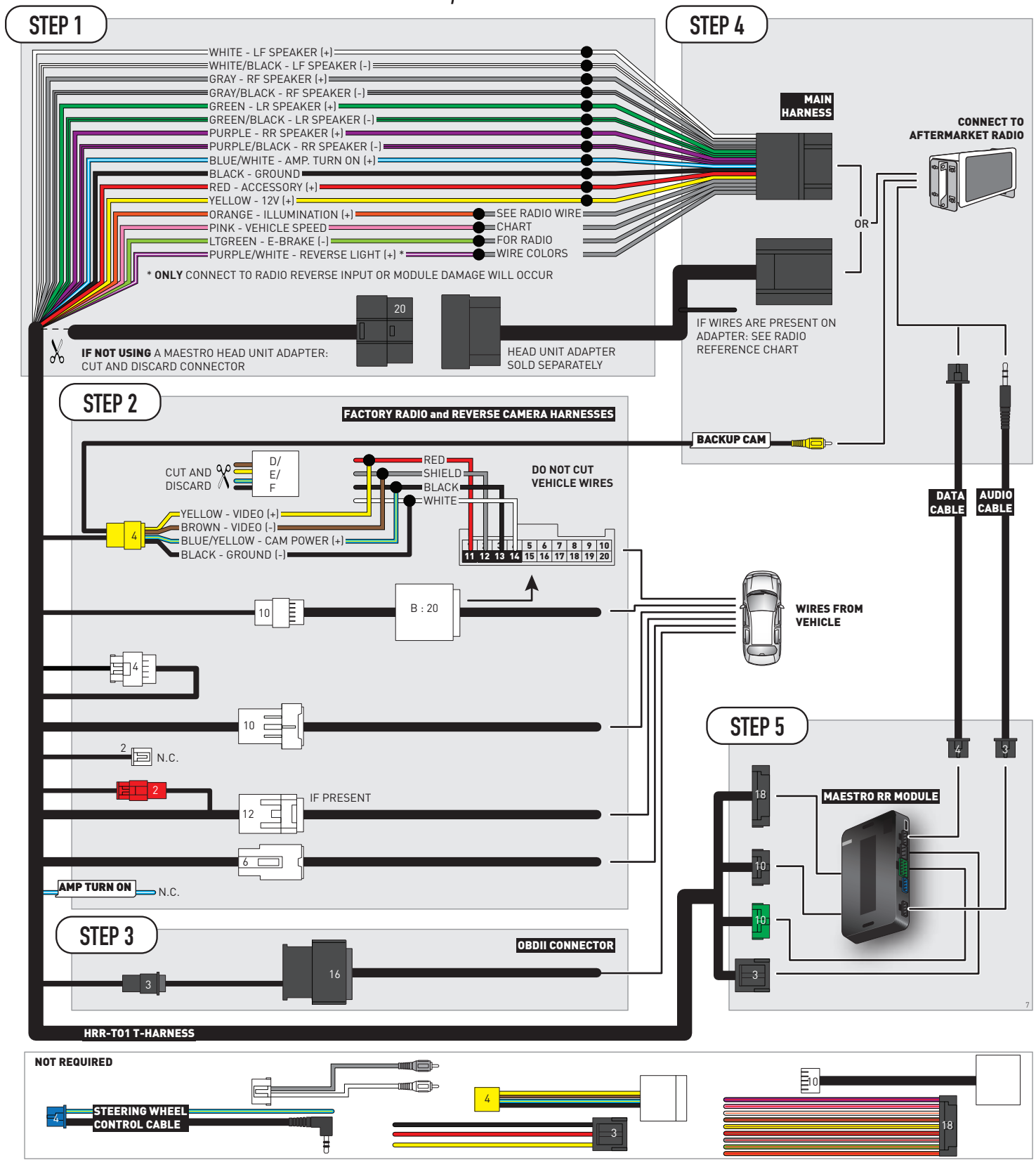
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

7

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| ● 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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2014-2018
## TOYOTA SEQUOIA
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

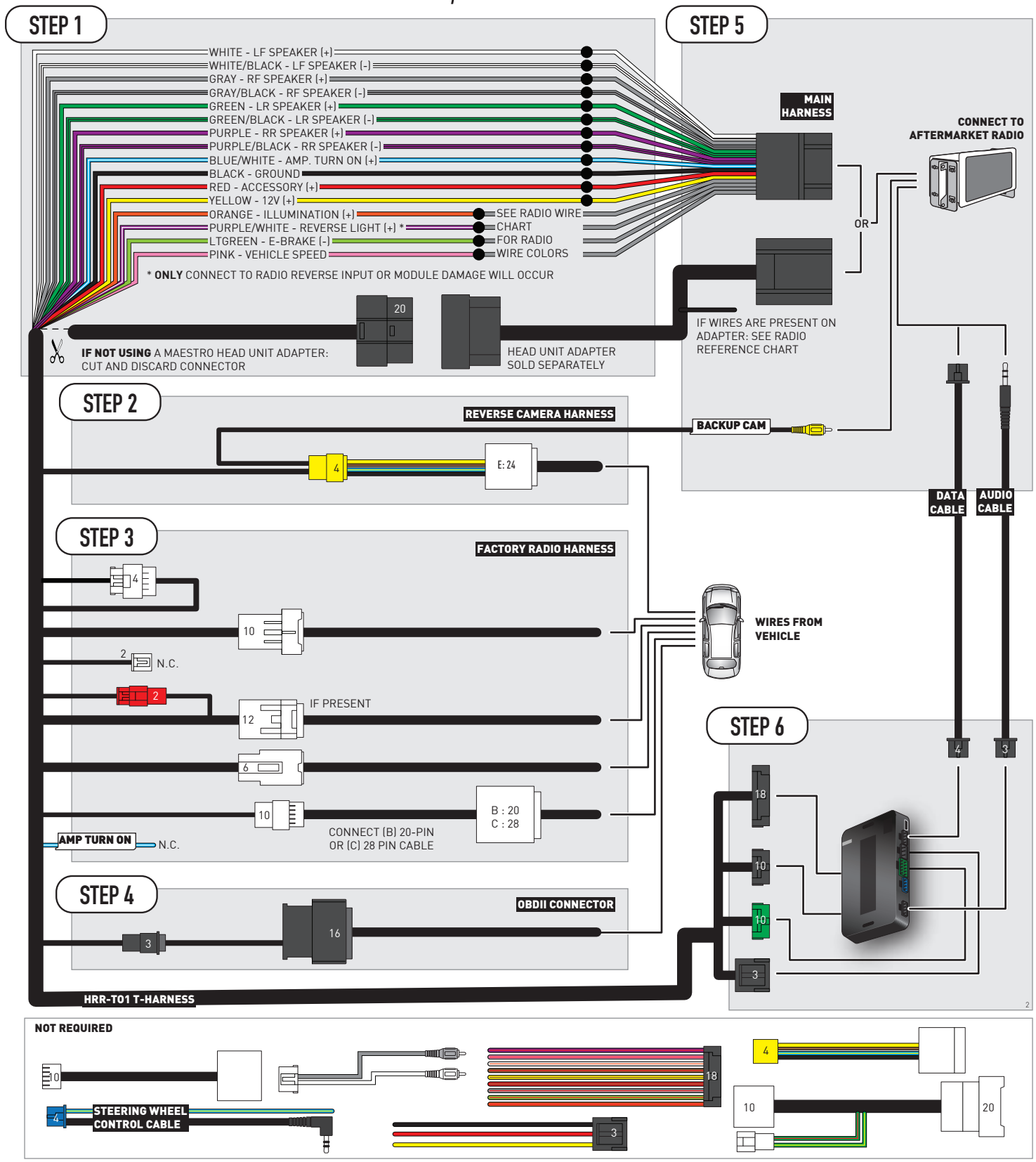
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2007-2010
## TOYOTA SIENNA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

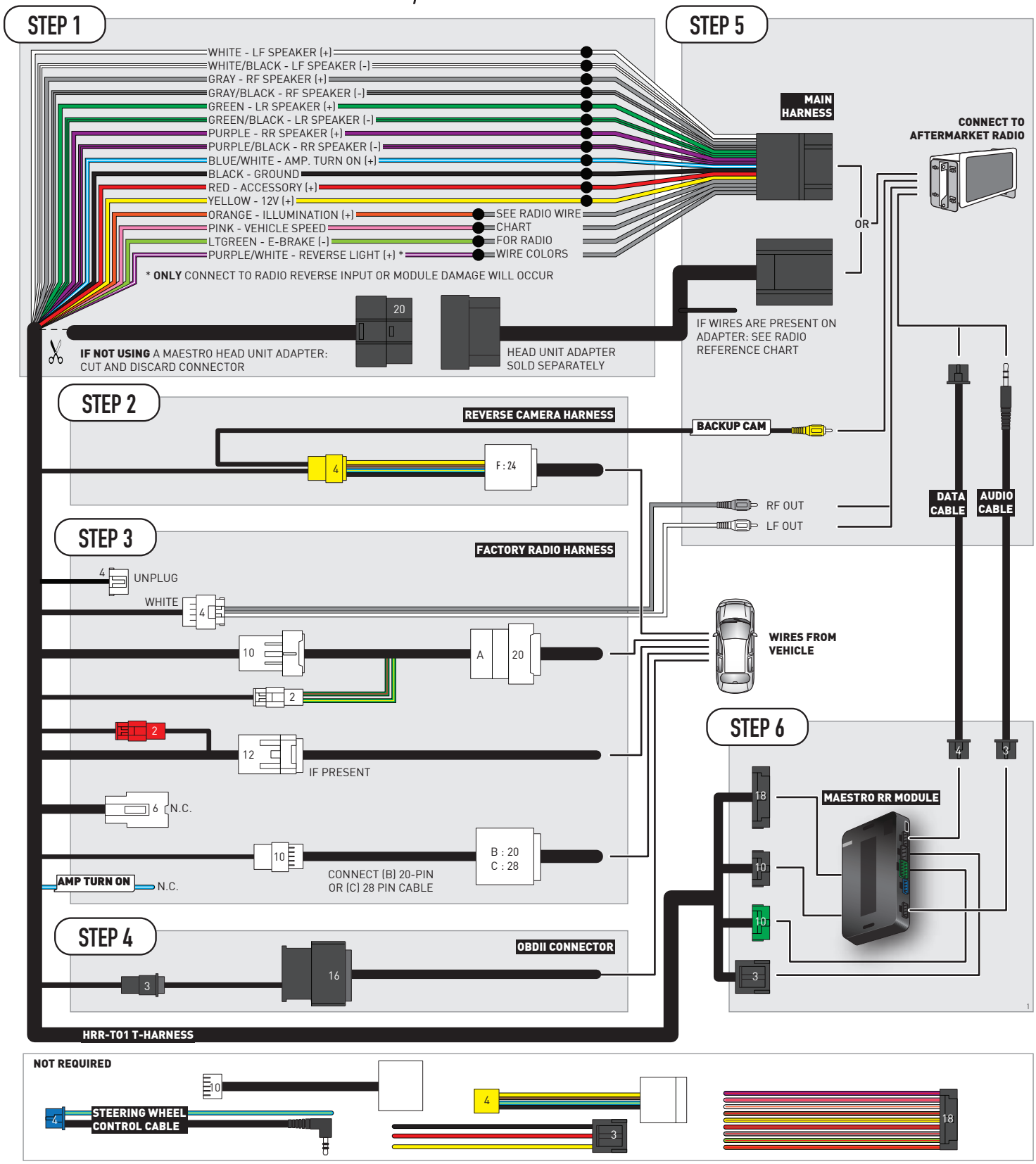
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2011-2014
## TOYOTA SIENNA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

**HEAD UNIT ADAPTER:**
**ACC-HU-**PIO1, SON1, KEN1, KEN2, ALP1

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
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| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to any HRR adapter cable (D, E or F) then cut off the 16 or 24-pin connector. Connect the adapter's wires to parking assist ECU harness, as shown in wiring diagram.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

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

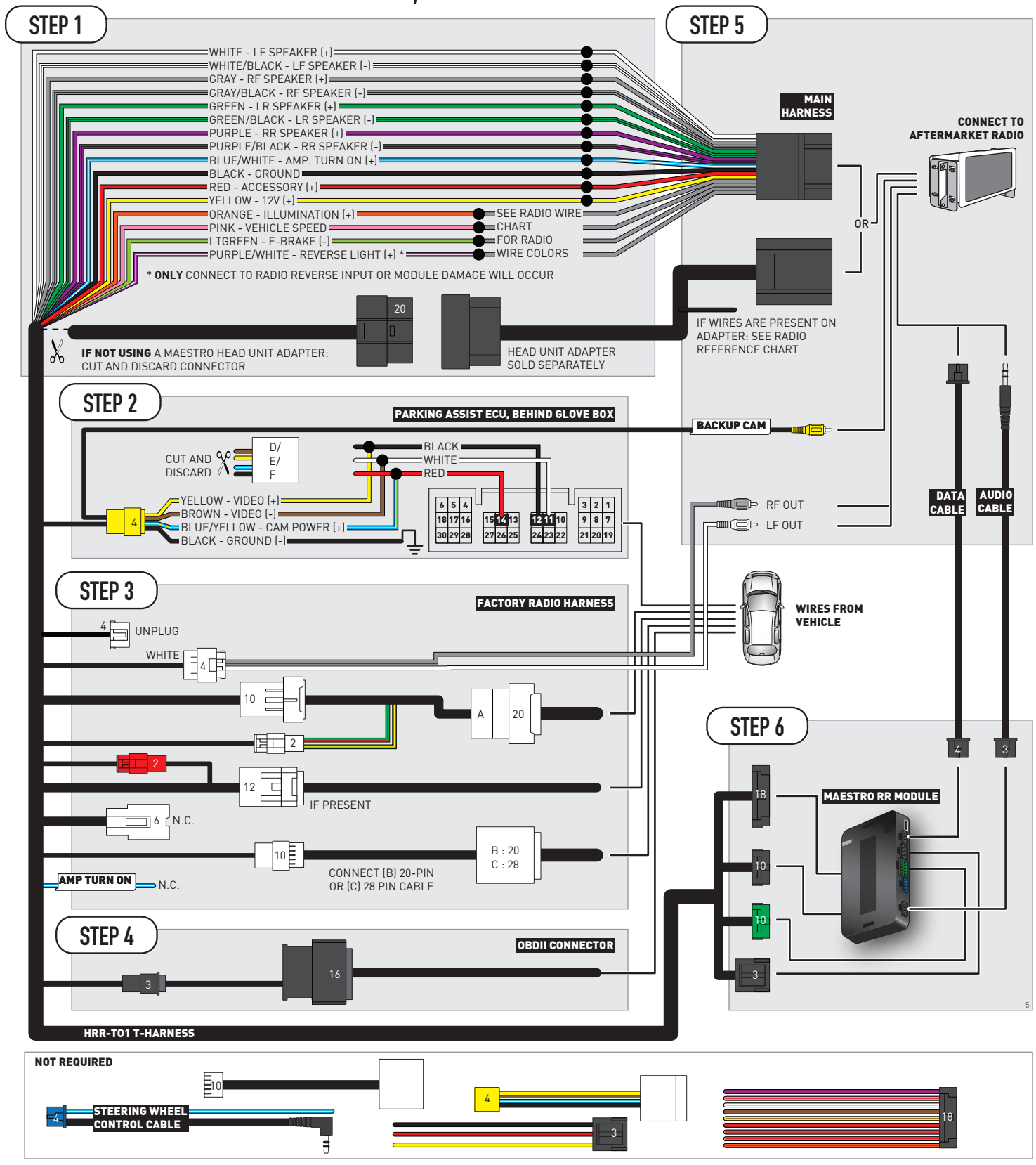
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| ● | | 1 GREEN flash | After radio boots up : Normal operation. |
| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
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# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2007-2010
## TOYOTA SIENNA
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

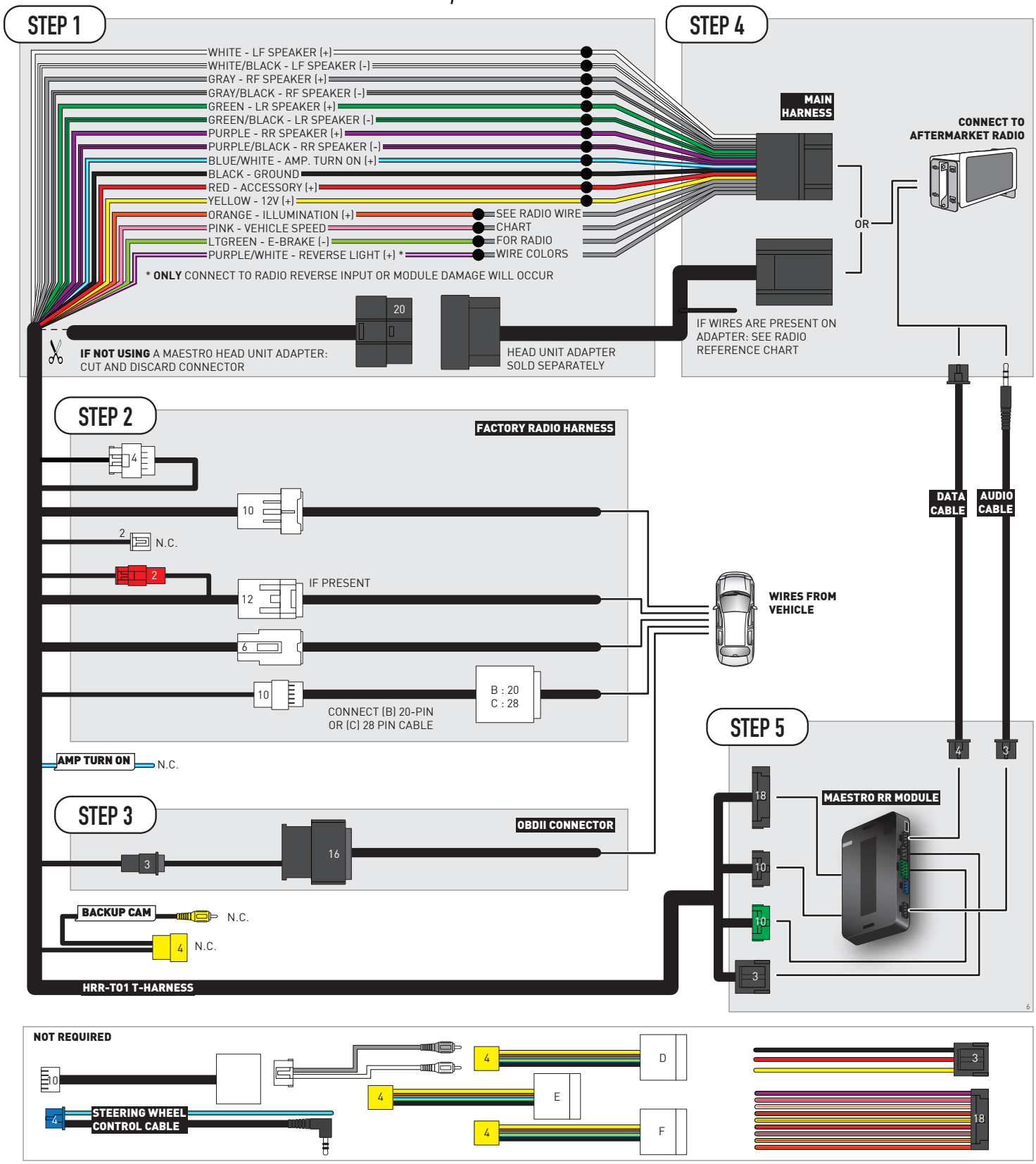
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2011-2014
## TOYOTA SIENNA
### WITHOUT JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

**HEAD UNIT ADAPTER:**
**ACC-HU-**PIO1, SON1, KEN1, KEN2, ALP1

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

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

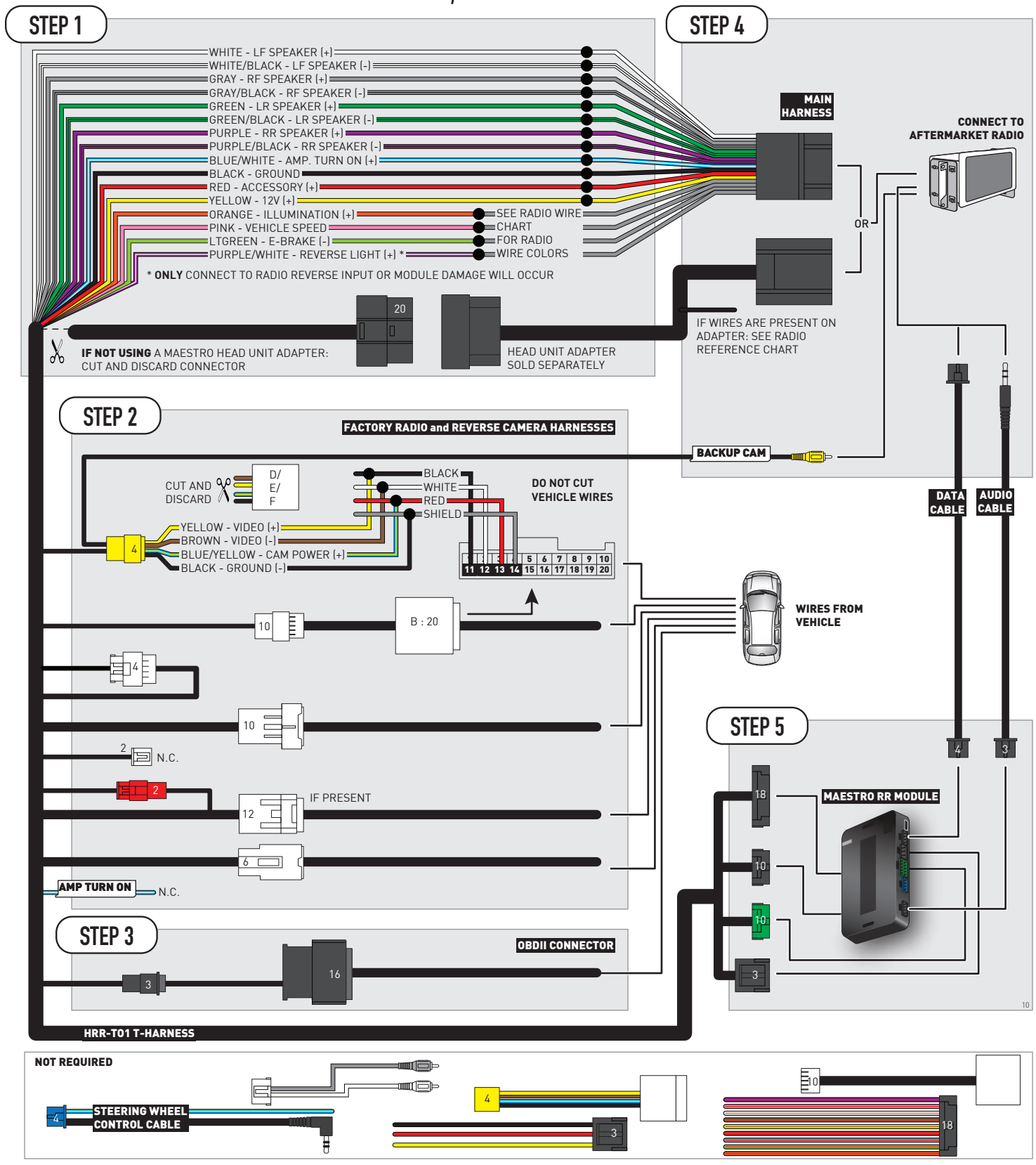
## STEP 5

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



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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2005-2011
## TOYOTA TACOMA
## WITH JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | | |
|---|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides | |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide | |
| Installation, product information, vehicle specific videos. | VIDEO HELP | |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH | |
| Software to program module. | WEBLINK | |

Automotive Data Solutions Inc. © 2024

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

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

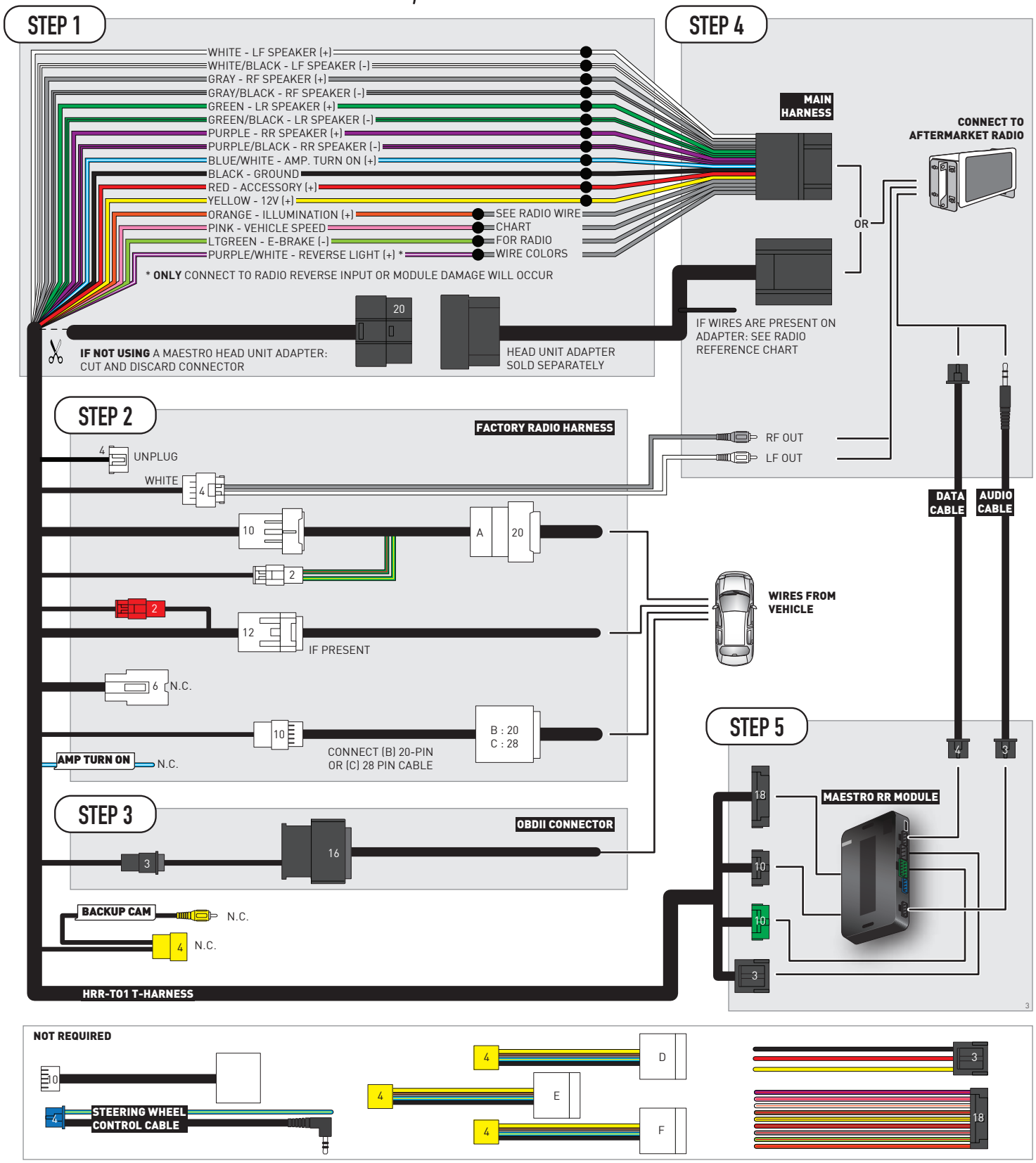
## STEP 5

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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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| ● | | 2 RED flashes | Problem detected. Consult troubleshooting table. |
| ● | | 1 GREEN flash | After radio boots up : Normal operation. |
| | ● | 3 GREEN flashes | Bluetooth is activated.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
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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

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

# INSTALL GUIDE

## 2012-2013
## TOYOTA TACOMA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | | |
|---|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides | |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide | |
| Installation, product information, vehicle specific videos. | VIDEO HELP | |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH | |
| Software to program module. | WEBLINK | |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

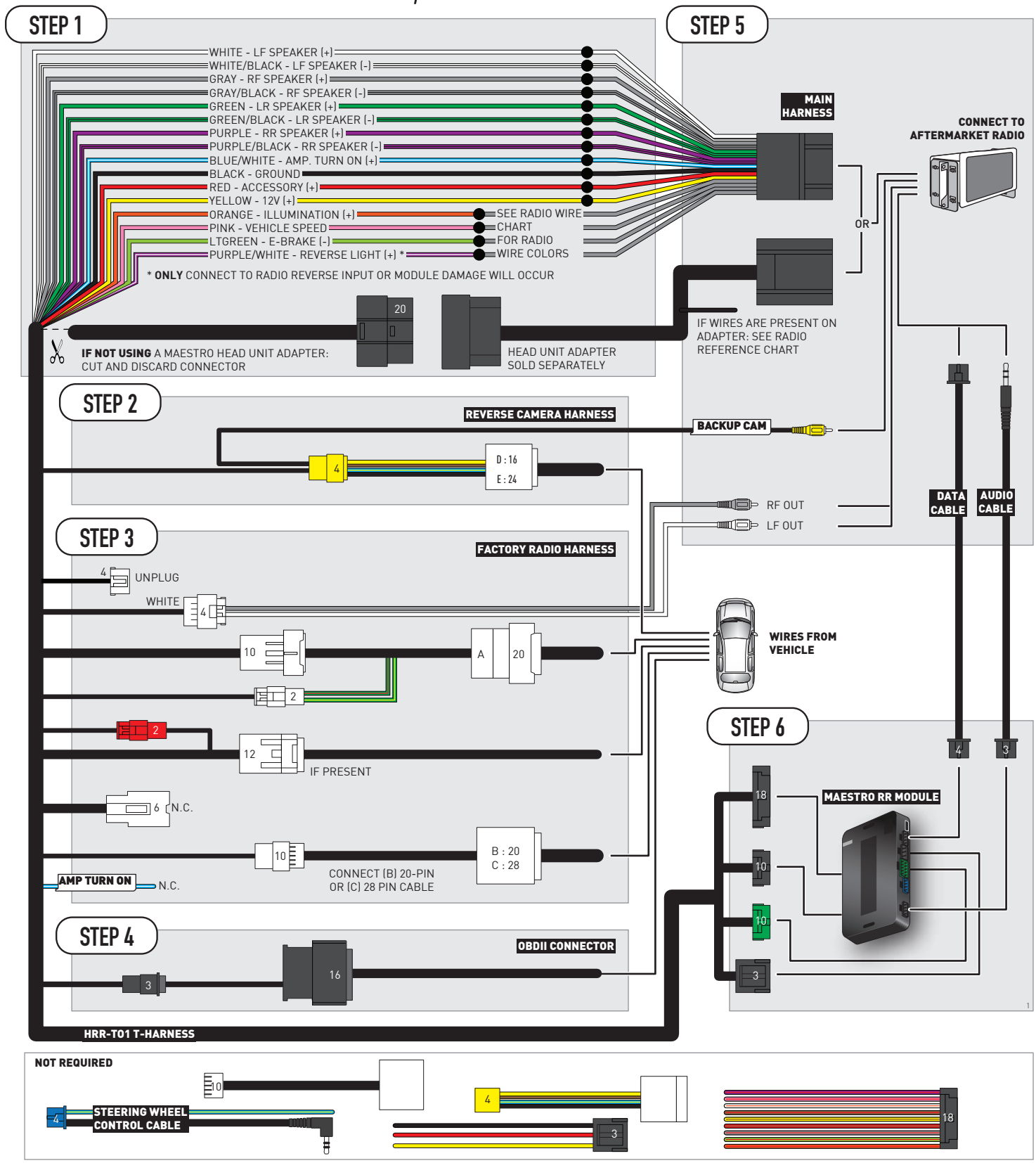
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

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# INSTALL GUIDE

## 2005-2011
## TOYOTA TACOMA
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
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| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

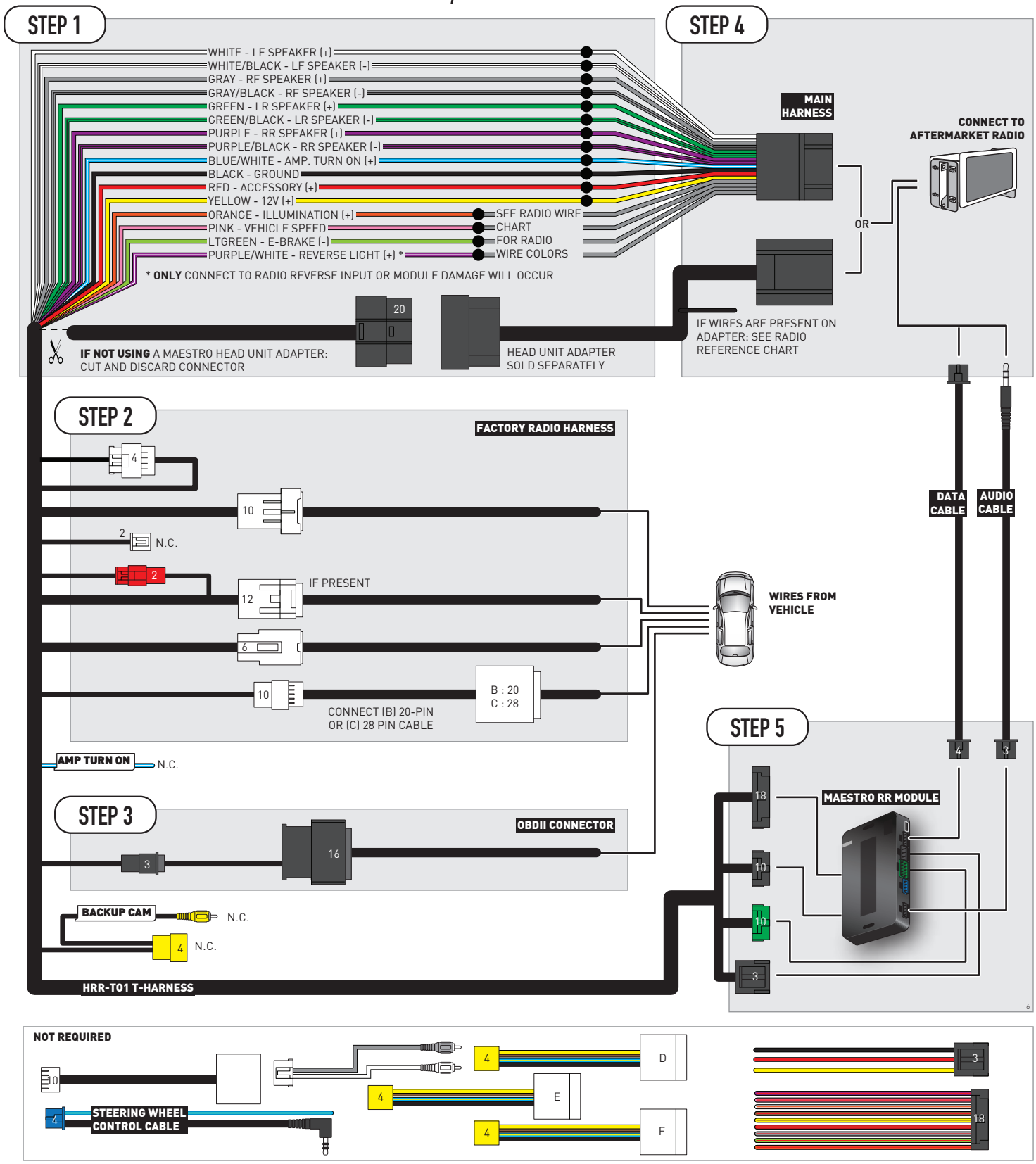
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
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| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
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| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2012-2015
## TOYOTA TACOMA
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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# WELCOME

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

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

# NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

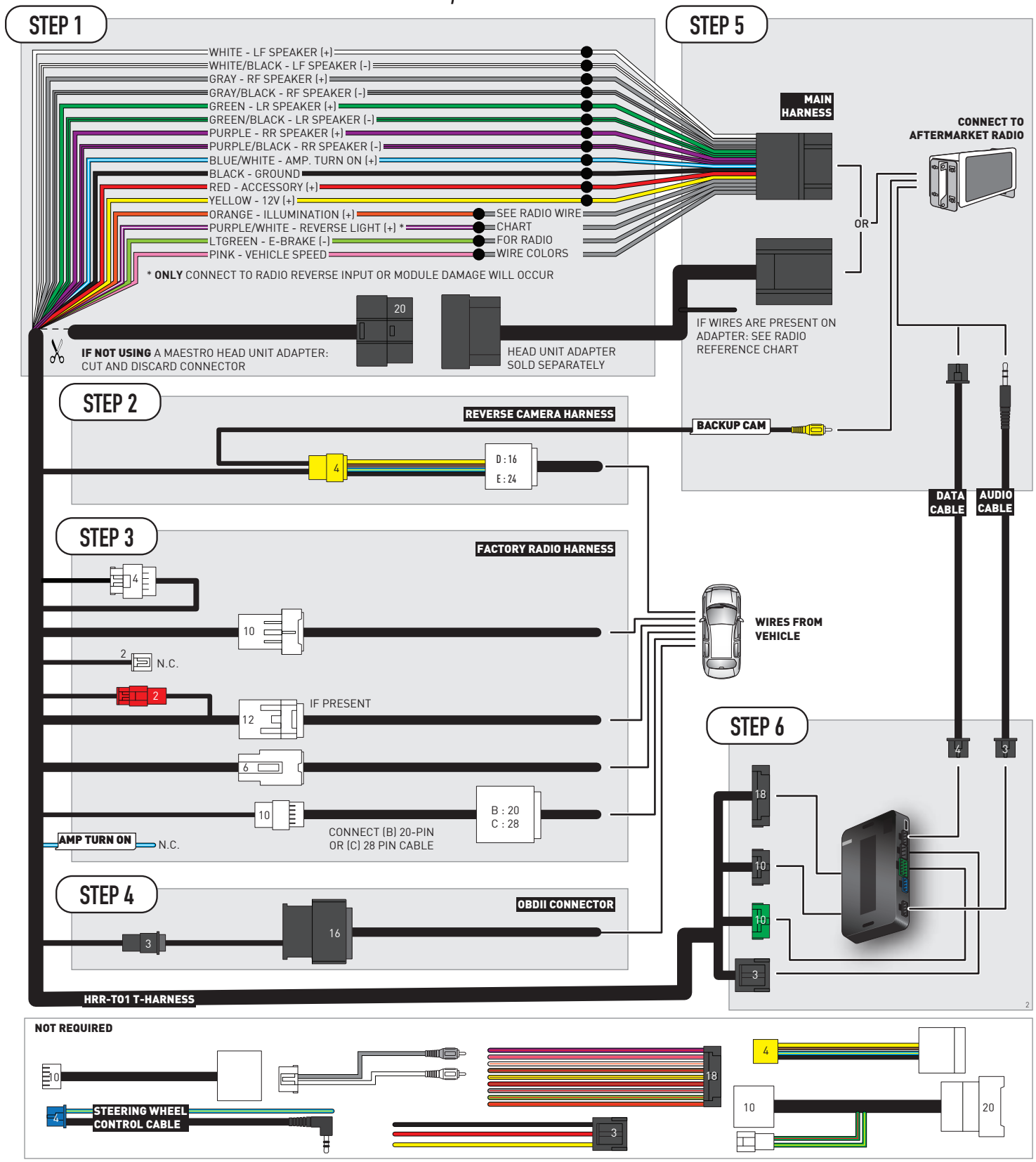
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
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| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

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| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>Bluetooth activity | LED STATUS | DIAGNOSTIC |
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| PROBLEM | SOLUTION |
|---|---|
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# INSTALL GUIDE

## 2007-2013
## TOYOTA TUNDRA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

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**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

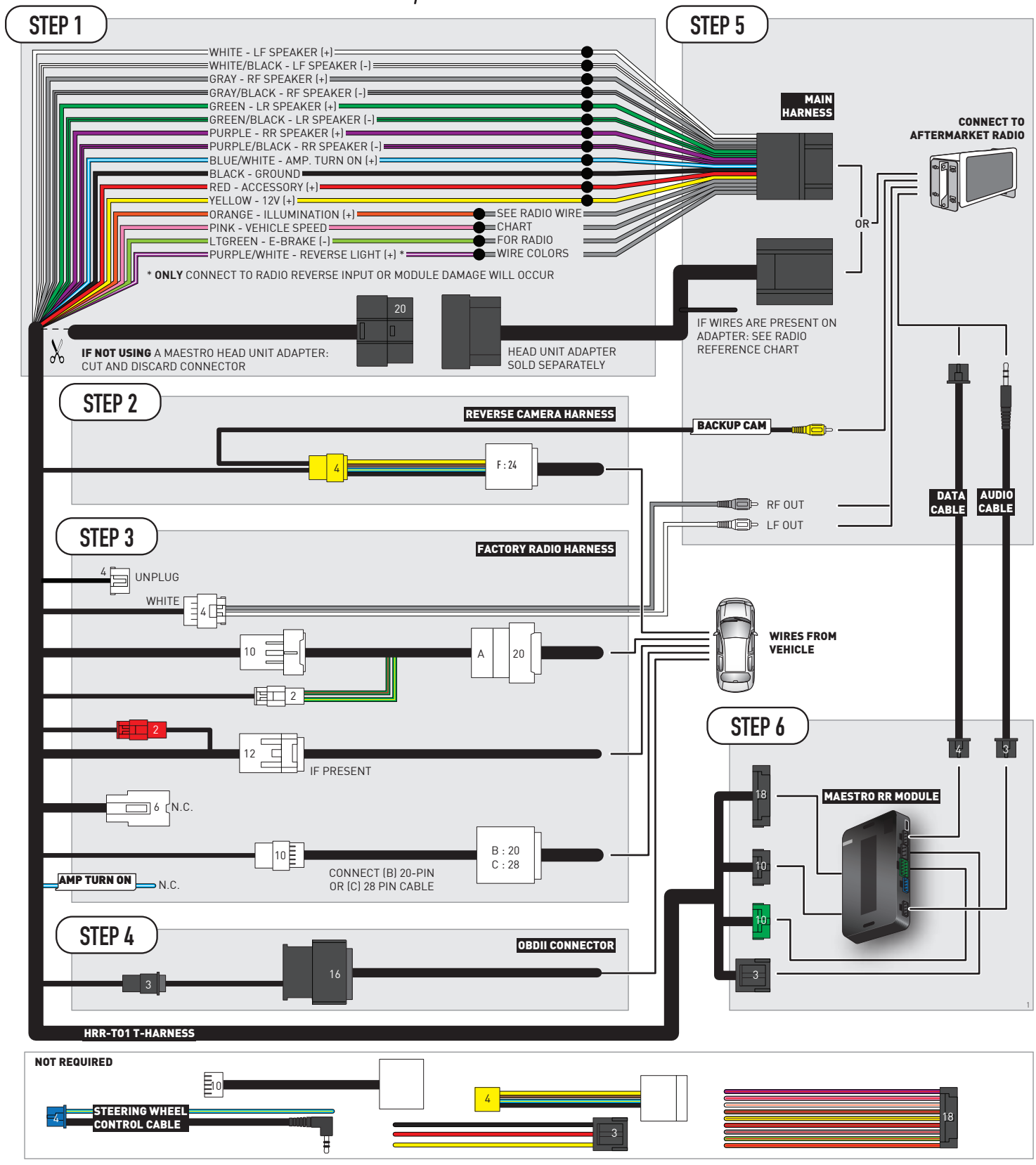
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2007-2013
## TOYOTA TUNDRA
### WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

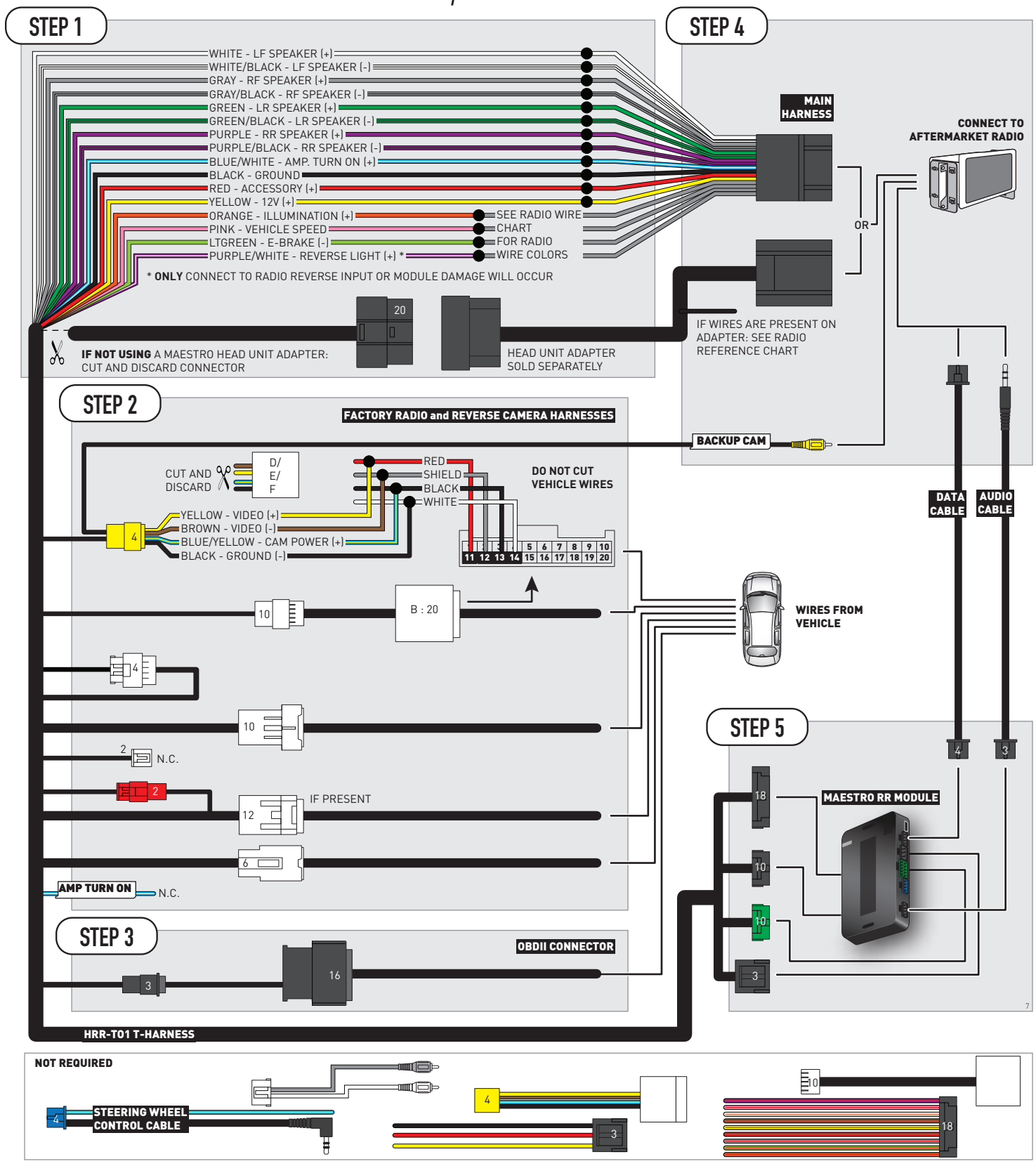
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

7

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2009-2012
## TOYOTA VENZA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the HRR-TO1 harness to appropriate HRR adapter cable (D, E or F) then connect to the backup camera harness.

## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

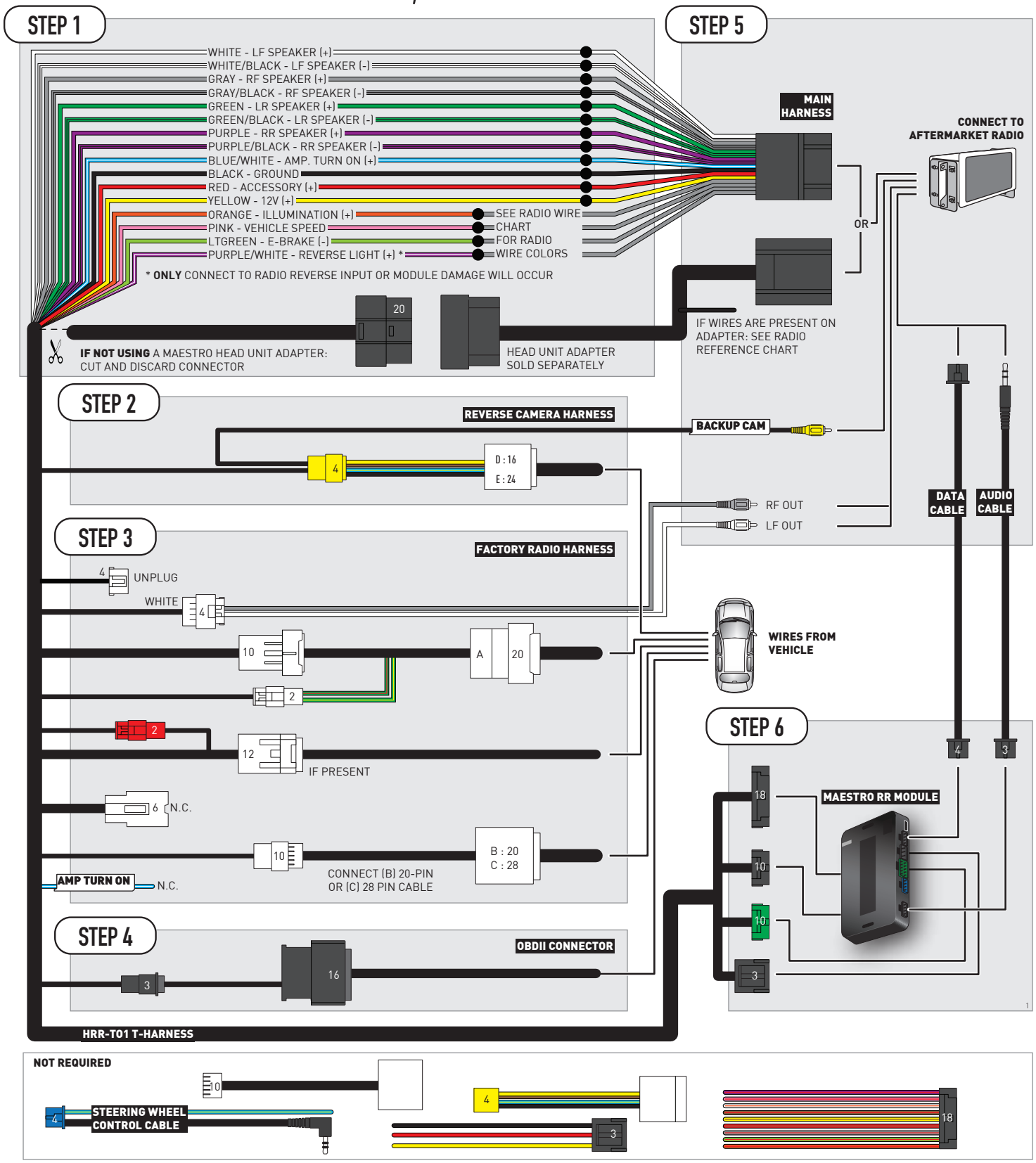
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
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| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




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| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
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Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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# INSTALL GUIDE

## 2013-2014
## TOYOTA VENZA
## WITH JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

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1 866 427-2999

maestro.support@idatalink.com

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## STEP 2

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## STEP 3

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
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## STEP 4

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 5

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

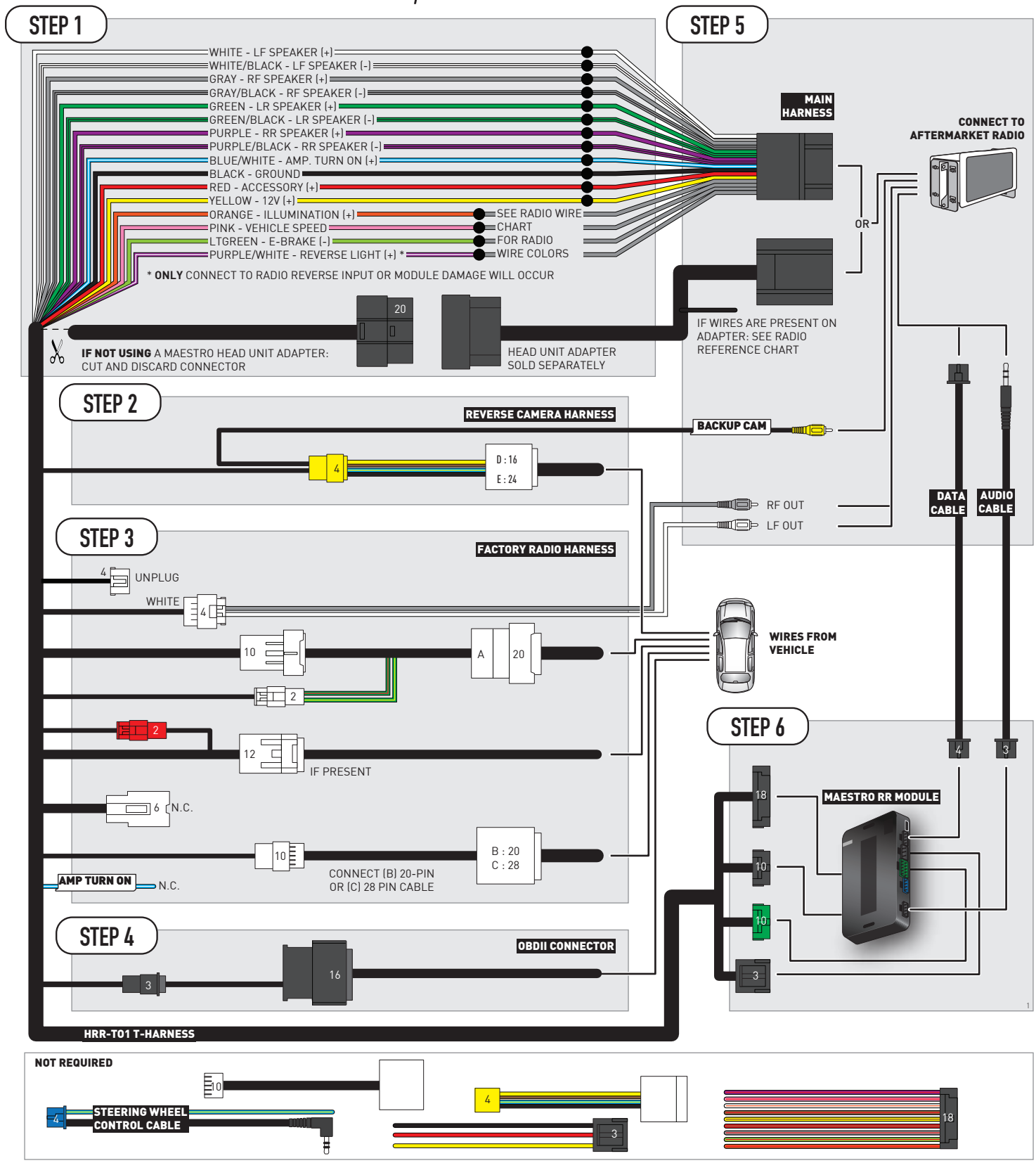
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 6

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

1

# WIRING DIAGRAM *with an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2009-2012
## TOYOTA VENZA
## WITHOUT JBL

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

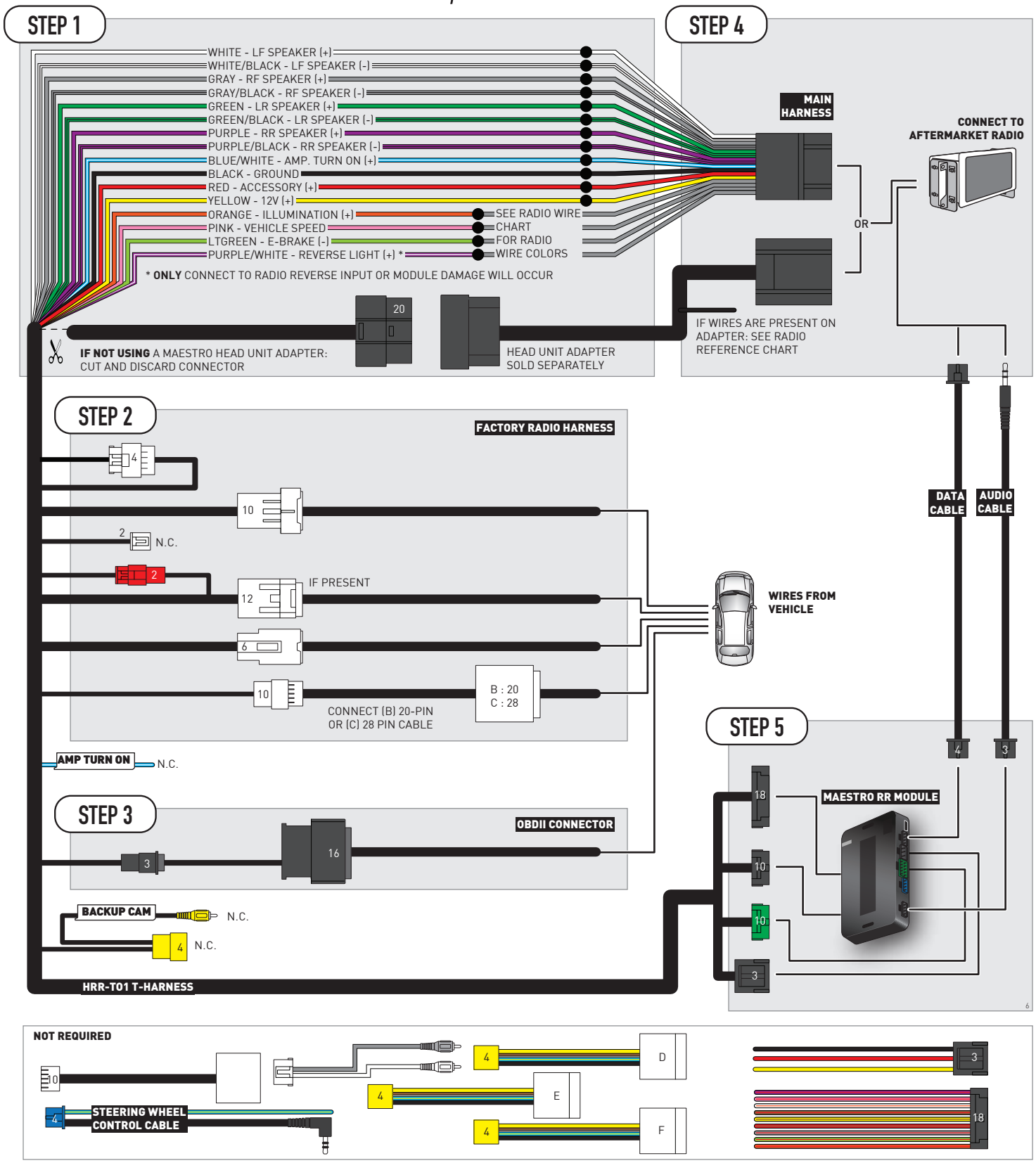
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

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# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2013-2014
## TOYOTA VENZA
### WITHOUT JBL

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

## STEP 5

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

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

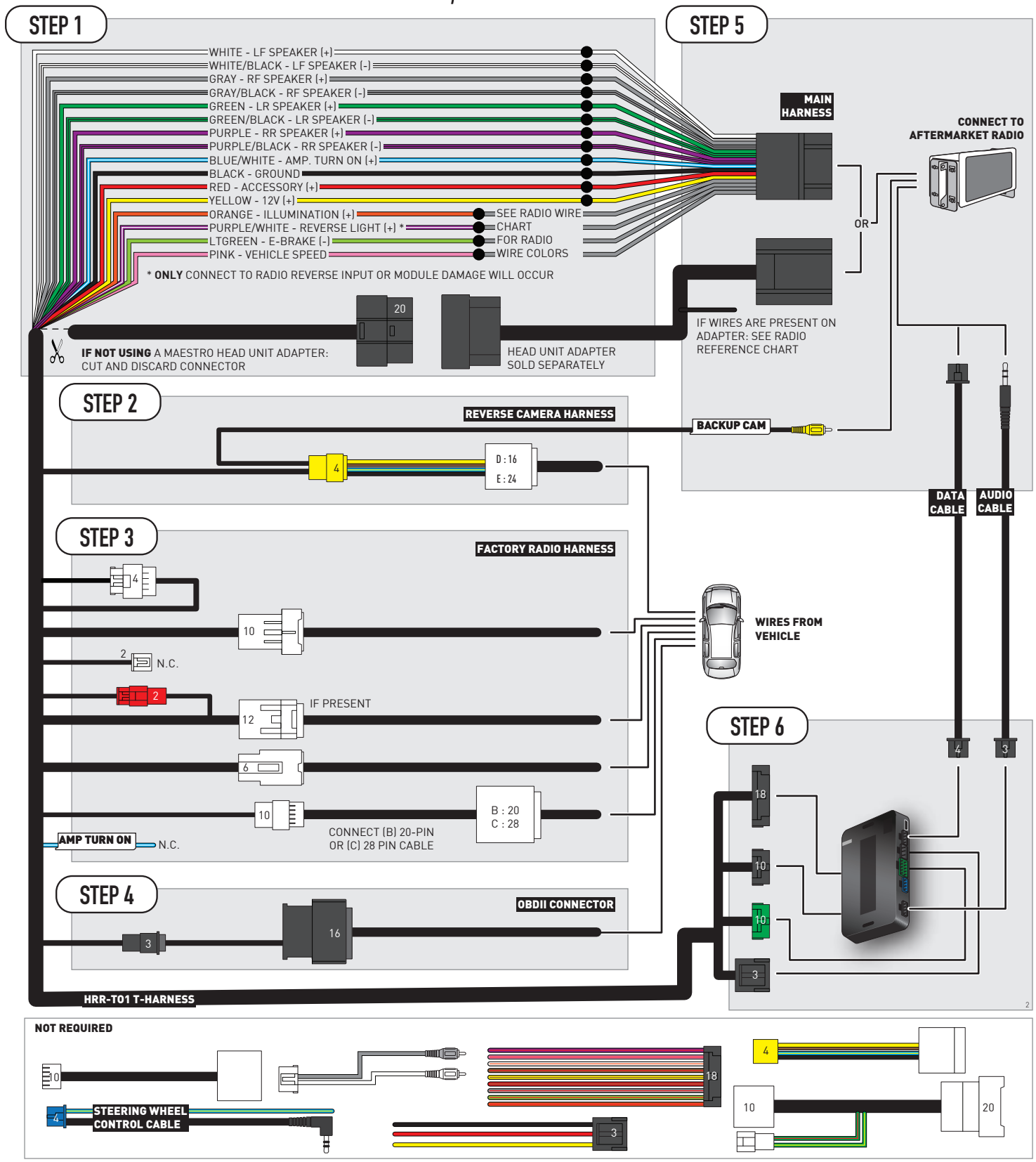
## STEP 6

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



Automotive Data Solutions Inc. © 2024

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2007-2011
## TOYOTA YARIS

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




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HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

Automotive Data Solutions Inc. © 2024

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

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

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

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

## STEP 2

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

## STEP 3

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

## STEP 4

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

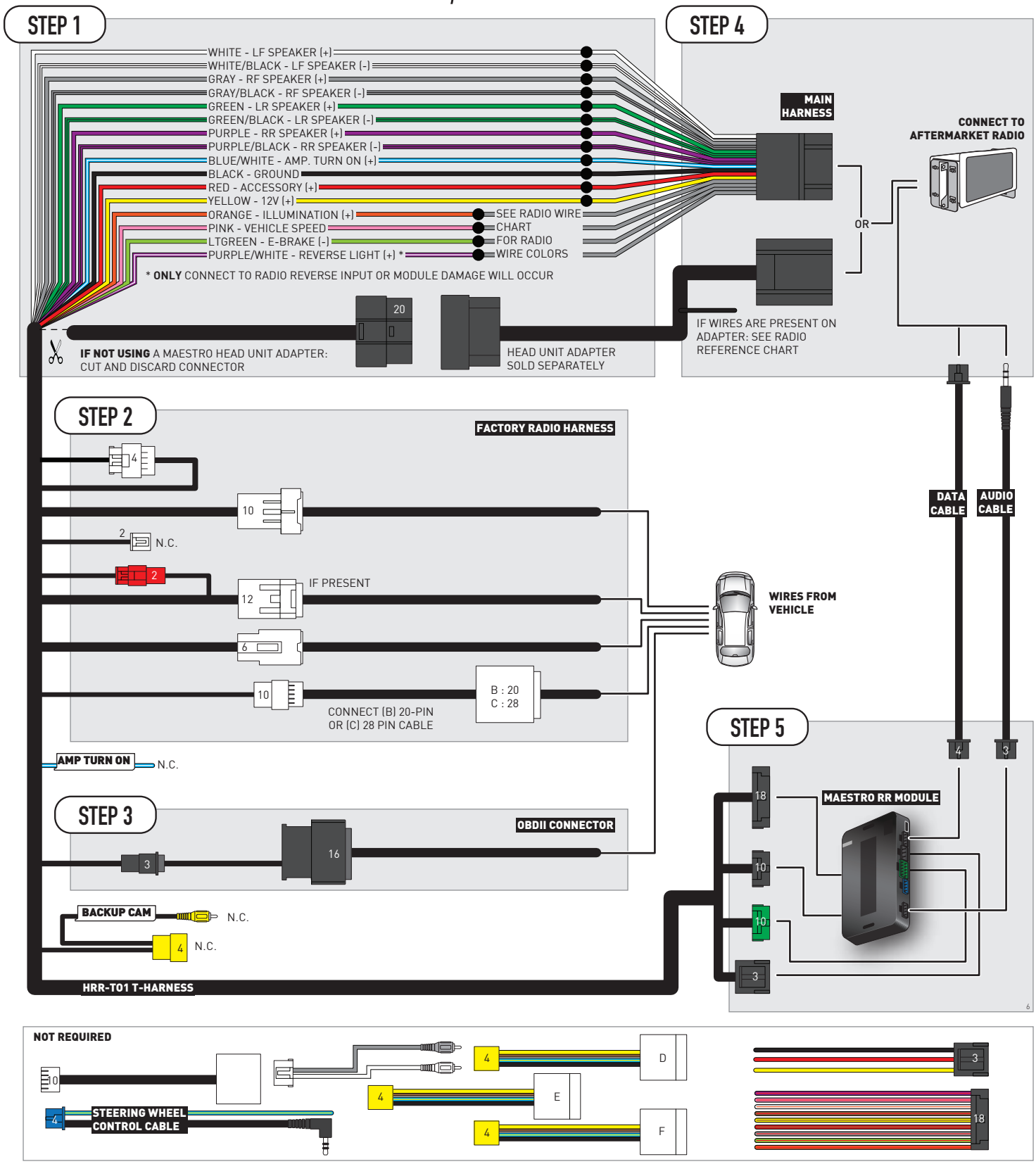
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

6

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

# TROUBLESHOOTING TABLE

| PROBLEM | SOLUTION |
|---|---|
| Gauges do not work, radio shows OBD2 Error 1 or Error 2. | Ensure OBDII connector is securely attached to the OBDII connector of the vehicle.<br>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.<br>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.<br>Reset the RR. |
| The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on. | 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.<br><br>Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number. |
| The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on. | If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well.<br>Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. |
| The steering wheel controls are not working, the Maestro RR does not blink when they are pressed. | Ensure the 20 or 28-pin connector is plugged to the vehicle and to the TO1 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle). |
| **(Prius only)** After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off. | Locate the white 12-pin connector of the TO1 harness, it is connected to the vehicle harness.<br>Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off. |

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

**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.**

# INSTALL GUIDE

## 2012-2018
## TOYOTA YARIS

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




+







HEAD UNIT
ADAPTER READY

**PRODUCTS REQUIRED**

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

**PROGRAMMED FIRMWARE:** TO1-RR-DS

NOTICE: Automotive Data Solutions Inc. (ADS) recommends having this installation performed by a certified technician. Logos and trademarks used here in are the properties of their respective owners.

# 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

# ADDITIONAL INFORMATION AND ACCESSORIES

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

| | |
|---|---|
| Radar Detectors<br>K40 ELECTRONICS ESCORT | Radar Installation Guides |
| Configuring the RR2's Programmable Outputs | Maestro RR2 Programmable Outputs Guide |
| Installation, product information, vehicle specific videos. | VIDEO HELP |
| Last flash information, steering control configuration, vehicle information. | VERIFY FLASH |
| Software to program module. | WEBLINK |

# INSTALLATION INSTRUCTIONS P1/1

## STEP 1

Remove the factory radio

**If using head unit adapter (sold separately), connect HRR-TO1 harness to adapter and skip to step 2.**

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-TO1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO1 T-harness and match the wire functions.

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

## STEP 2

- Identify if your vehicle has a 20 or 28 pin secondary connector.
- Assemble TO1 T-harness as shown on wiring diagram.
- Connect the factory harness to the HRR-TO1 harness.

## STEP 3

- Connect HRR-TO1 3-pin black connector to black connector of OBDII extension harness.
- Plug the OBDII connector into the OBDII of the vehicle.

## STEP 4

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

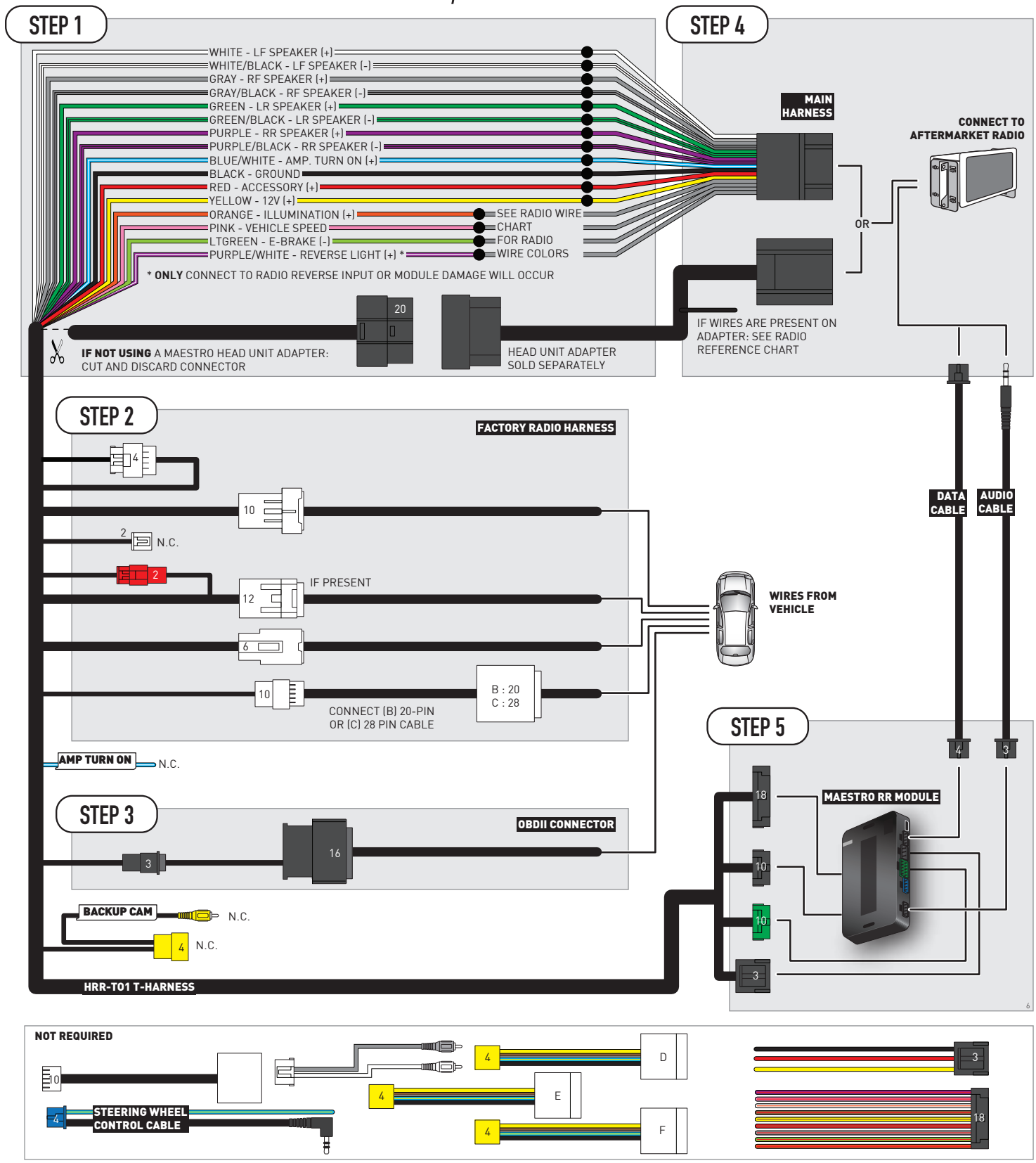
**Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.**

## STEP 5

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

6

# WIRING DIAGRAM *without an Amplifier*



# RADIO WIRE REFERENCE CHART

| T01 T-harness Wire Description | Polarity | Wire Color on Maestro T-Harness | Wire Color on Alpine cable | Wire Color on Kenwood/ JVC cable | Wire Color on Pioneer cable | Wire Color on Sony cable |
|---|---|---|---|---|---|---|
| Illumination | (+) | Orange | N/A | Orange/White | Orange/White | Orange |
| Reverse Light* | (+) | Purple/White | Orange/White | Purple/White | Purple/White | Purple/White |
| E-Brake | (-) | Lt Green | Yellow/Blue | Lt Green | Lt Green | Lt Green |
| VSS (vehicle speed sensor) | (DATA) | Pink | Green/White | Pink | Pink | N/A |

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

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

| ACC-HU-KEN1 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| CAM | (+) | Green/Red | Refer to camera/radio manual |
| CAM | (-) | Green/White | Refer to camera/radio manual |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

| ACC-HU-KEN2 Wire Description | Polarity | Wire Color on Adapter | Kenwood Radio |
|---|---|---|---|
| E-Brake | (-) | LtGreen | LtGreen |
| Reverse Light* | (+) | Purple/White | Purple/White |
| Steering Wheel Controls | (DATA) | Blue/Yellow | n/a |

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

# MODULE DIAGNOSTICS




| LED 1<br>Module/Firmware status | LED 2 (RR2)<br>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.<br>Flash module using Weblink Desktop and log in. Do NOT 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.<br>Turns off after one minute: Normal operation. |
| ● | ● | OFF | Normal operation (inactive). |

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