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

2014-2019
TOYOTA 4 RUNNER

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+





HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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-PIO1, SON1, KEN1, KEN2, ALP1

Radar Detectors 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

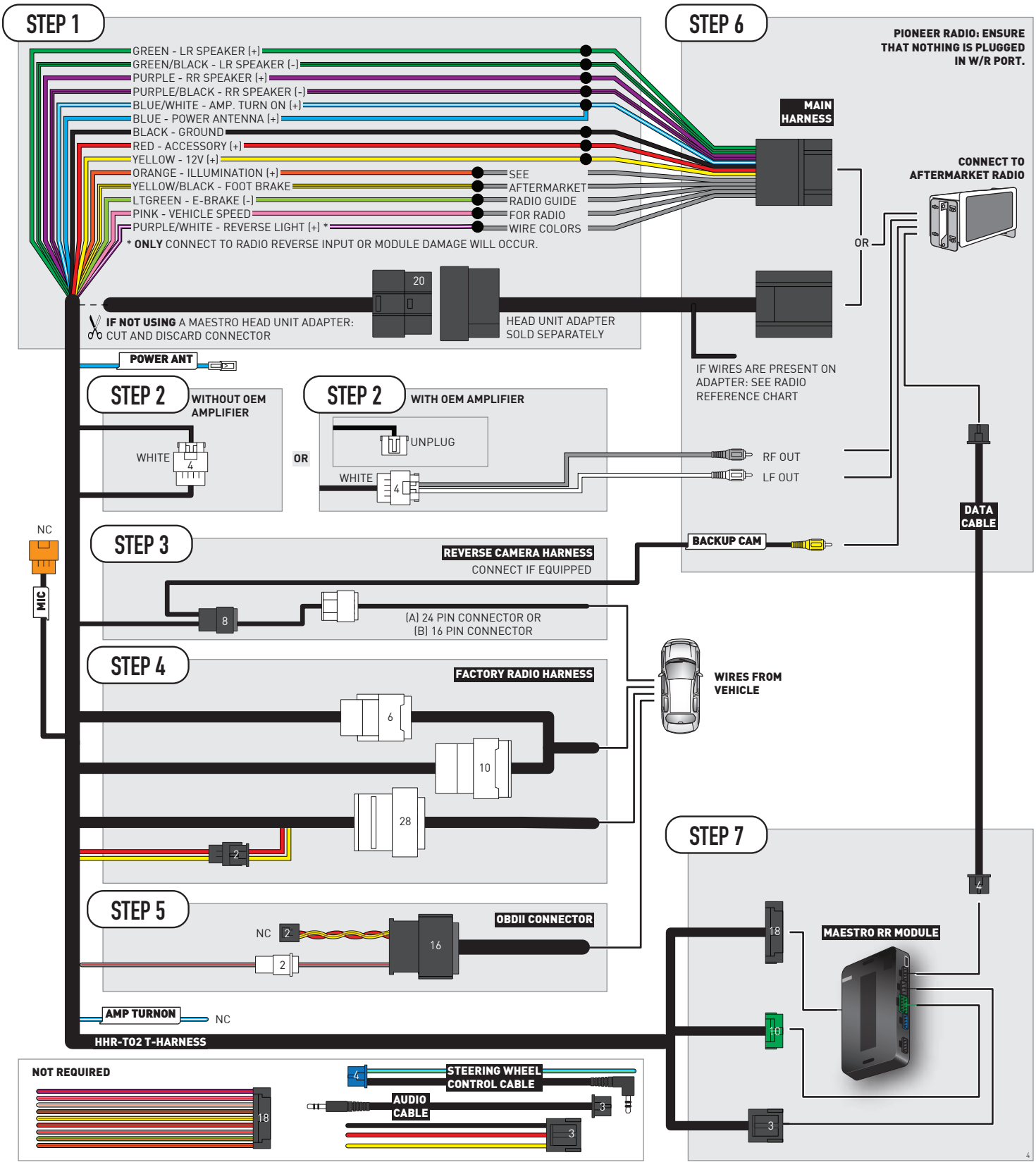
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

4

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
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TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2015-2019
TOYOTA AVALON

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

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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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

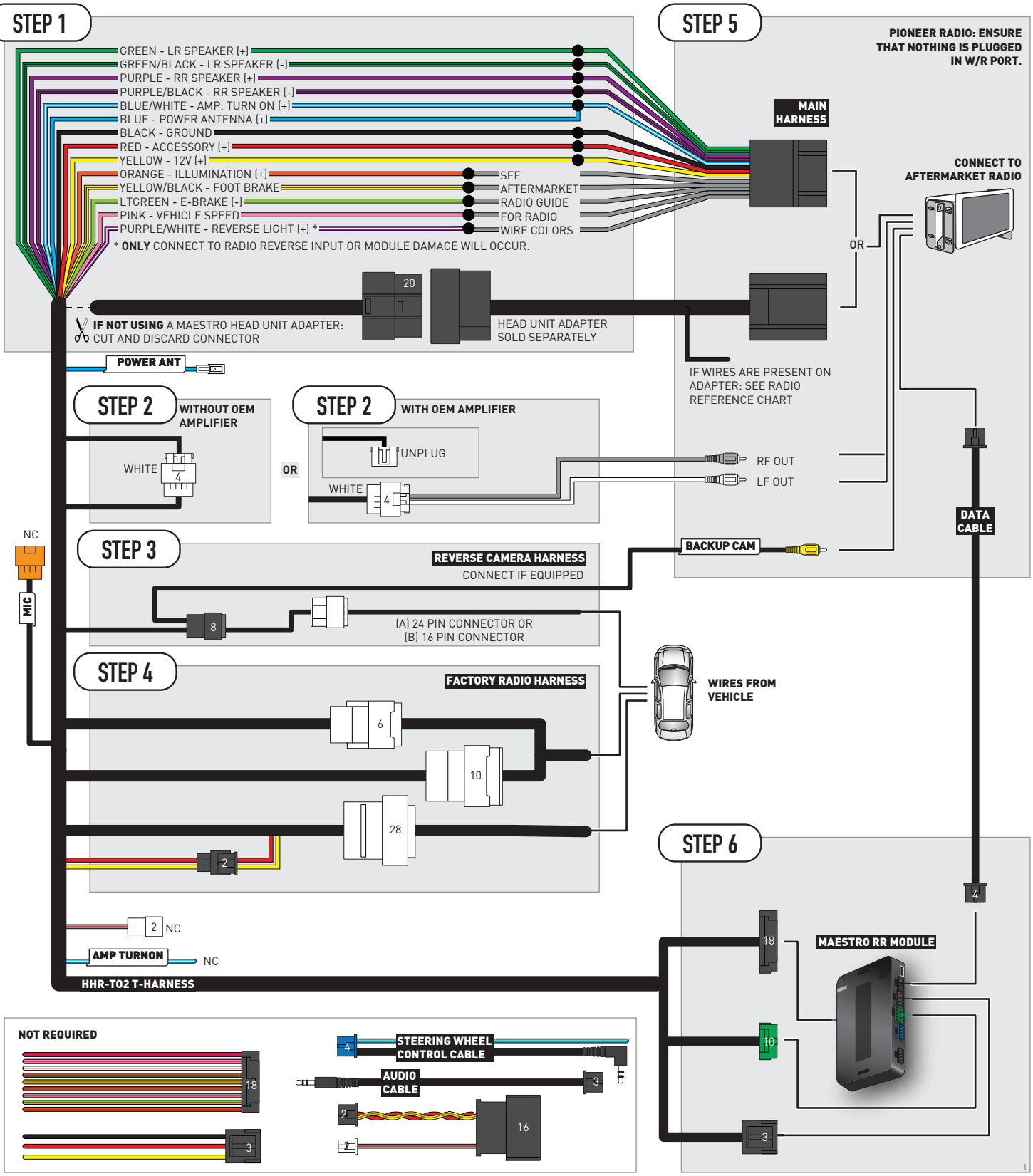
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

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WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

TROUBLESHOOTING TABLE

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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
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MAESTRO RR RESET PROCEDURE:

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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

2013-2014
TOYOTA AVALON
WITH NAV

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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iDatalink Maestro HHR-TO2 Installation Harness

PROGRAMMED FIRMWARE: TO2-RR-DS

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.

  If using head unit adapter (sold separately), connect HRR-TO2 harness to adapter and skip to step 2.

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If the vehicle DOES NOT have a factory amplifier:

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STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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360 CAMERA CONTROLS (with vehicle in reverse)

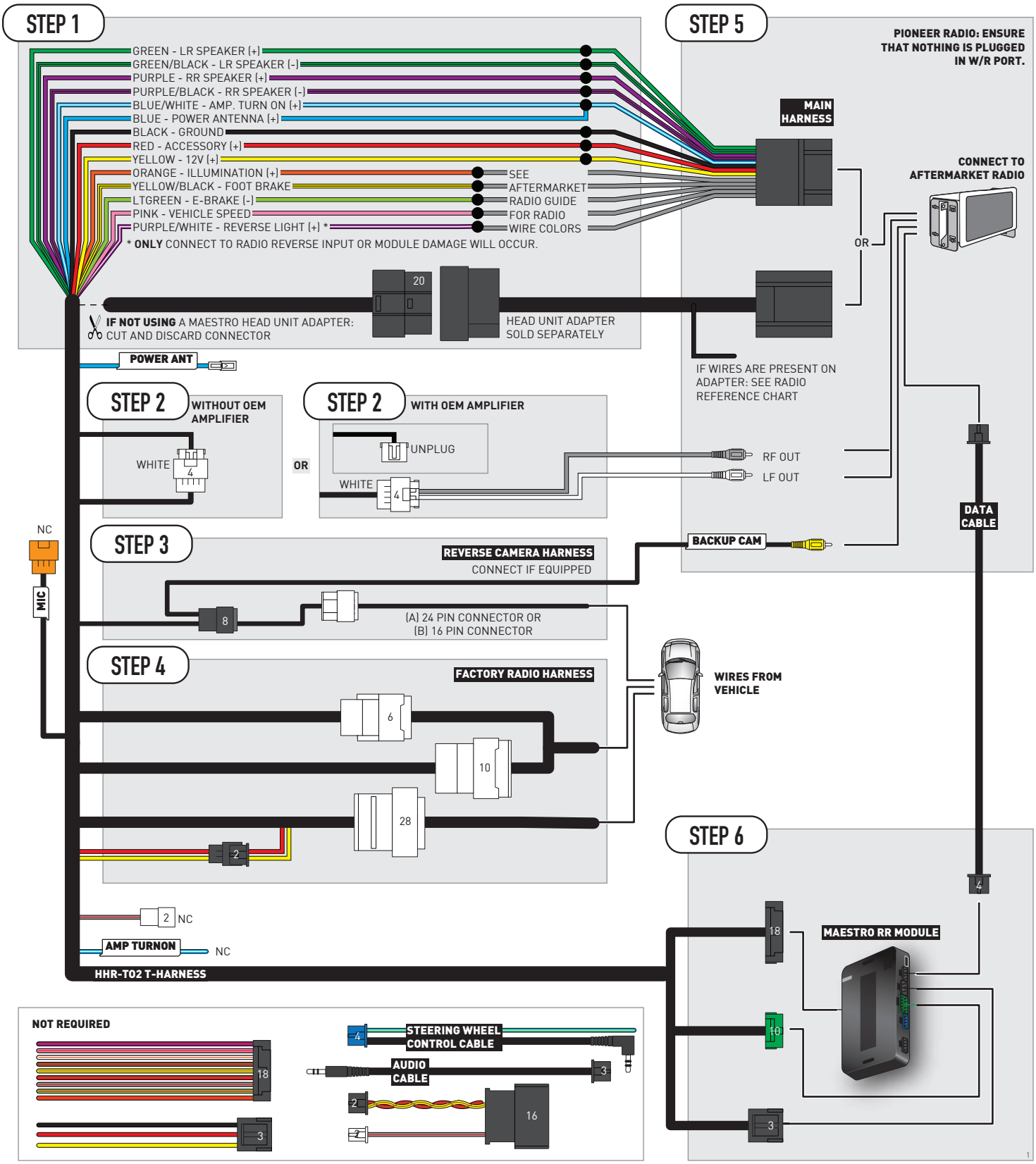
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Automotive Data Solutions Inc. © 2024

WIRING DIAGRAM



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

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INSTALL GUIDE

2018
TOYOTA C-HR
WITHOUT APPLE CARPLAY OR ANDROID AUTO

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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- Plug in the HRR-TO3 4-pin white connectors.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

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360 CAMERA CONTROLS (with vehicle in reverse)

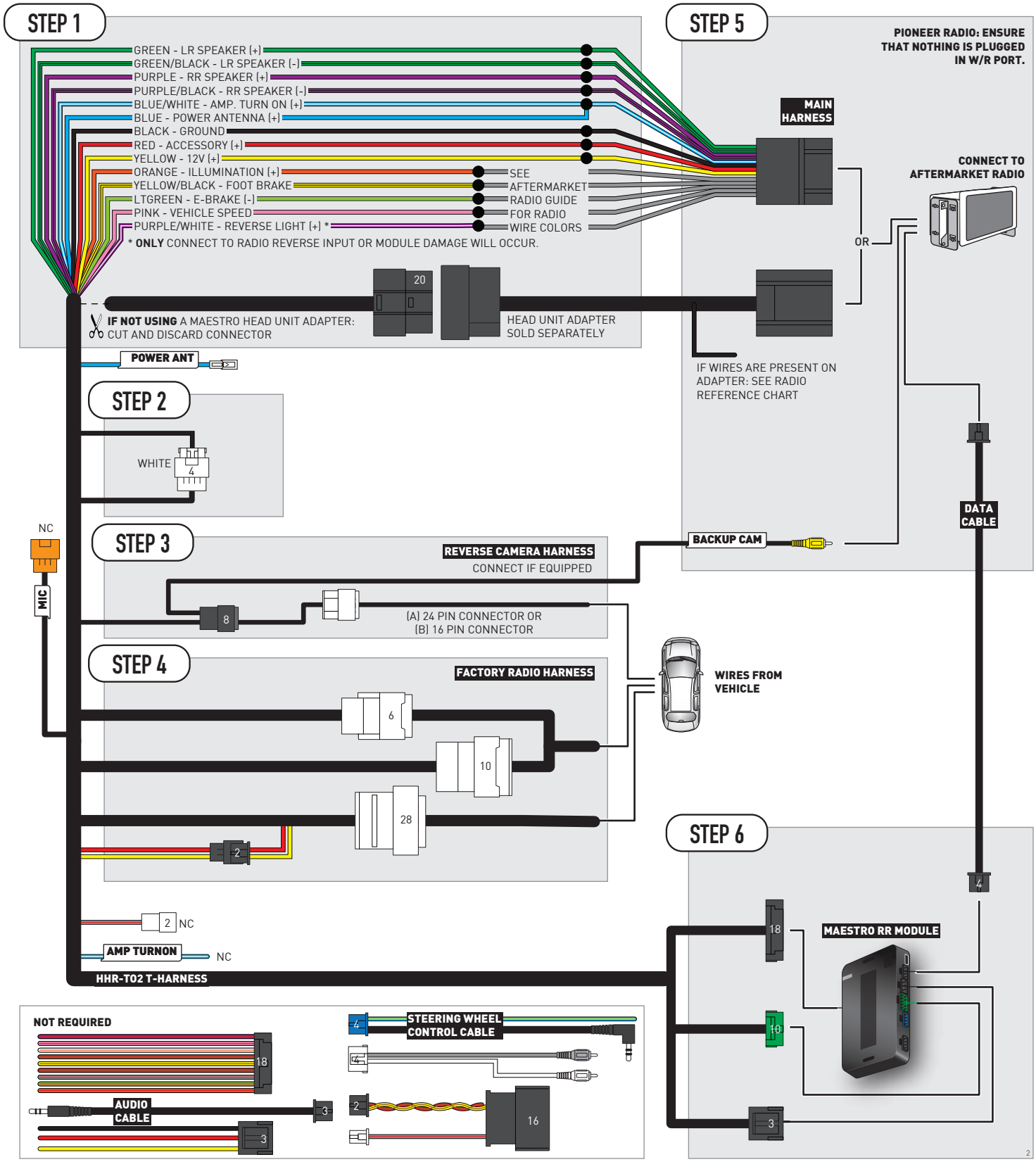
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

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WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

TO2 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the TO2 harness, not the OBD2. Reset the RR.
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TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2015-2017
TOYOTA CAMRY

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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 K40 ELECTRONICS ESCORT	Radar Installation Guides
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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.

  If using head unit adapter (sold separately), connect HRR-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

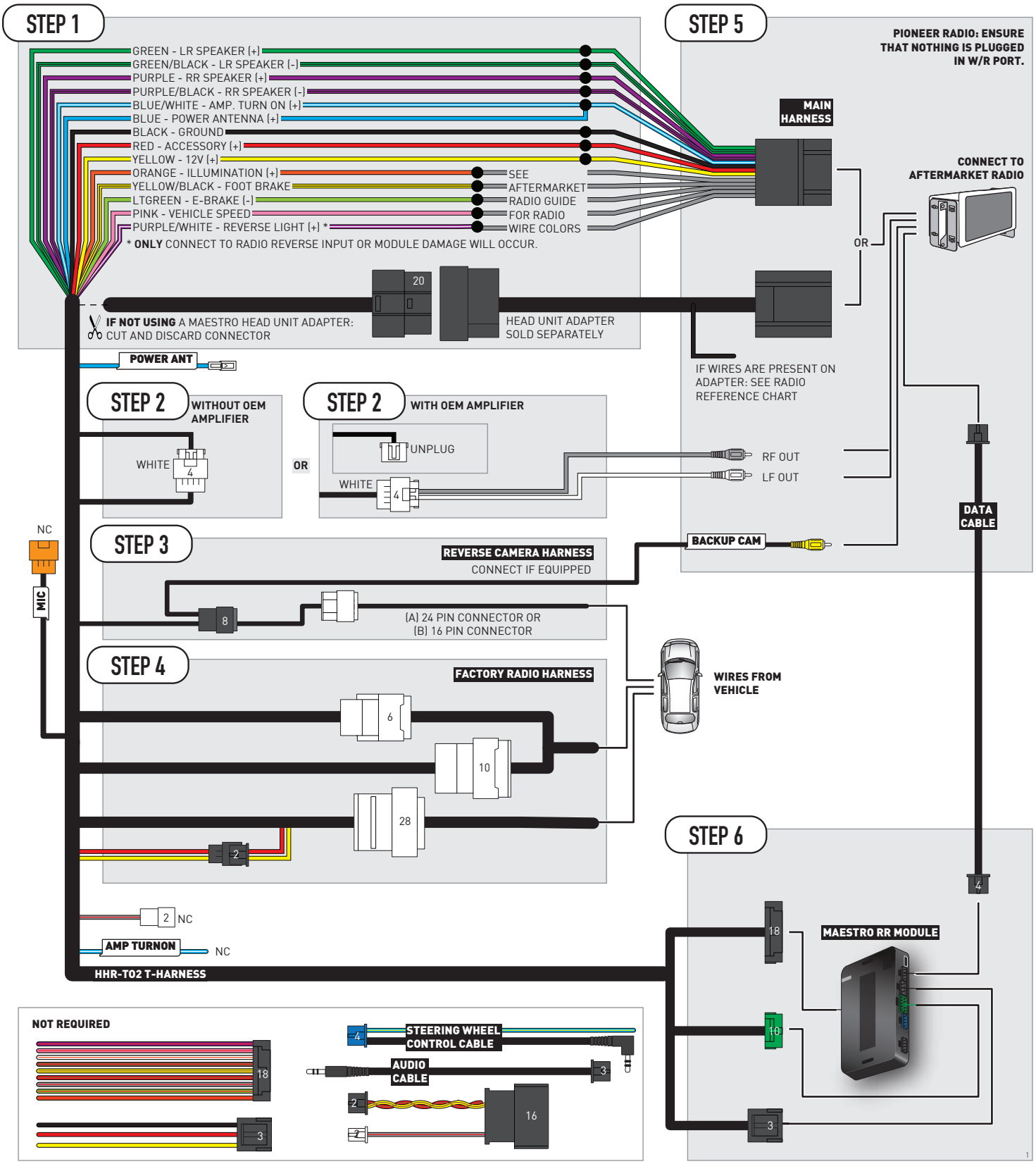
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Automotive Data Solutions Inc. © 2024

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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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Email: maestro.support@idatalink.com

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INSTALL GUIDE

2012-2014
TOYOTA CAMRY
WITH FACTORY 6.1 INCH SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-DS

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NEED HELP?

1 866 427-2999

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ADDITIONAL INFORMATION AND ACCESSORIES

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Radar Detectors K40 ELECTRONICS ESCORT	Radar Installation Guides	
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STEP 1

- Remove the factory radio.

  If using head unit adapter (sold separately), connect HRR-TO2 harness to adapter and skip to step 2.

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- Cut and remove the black 20 pin connector from the HRR-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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

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360 CAMERA CONTROLS (with vehicle in reverse)

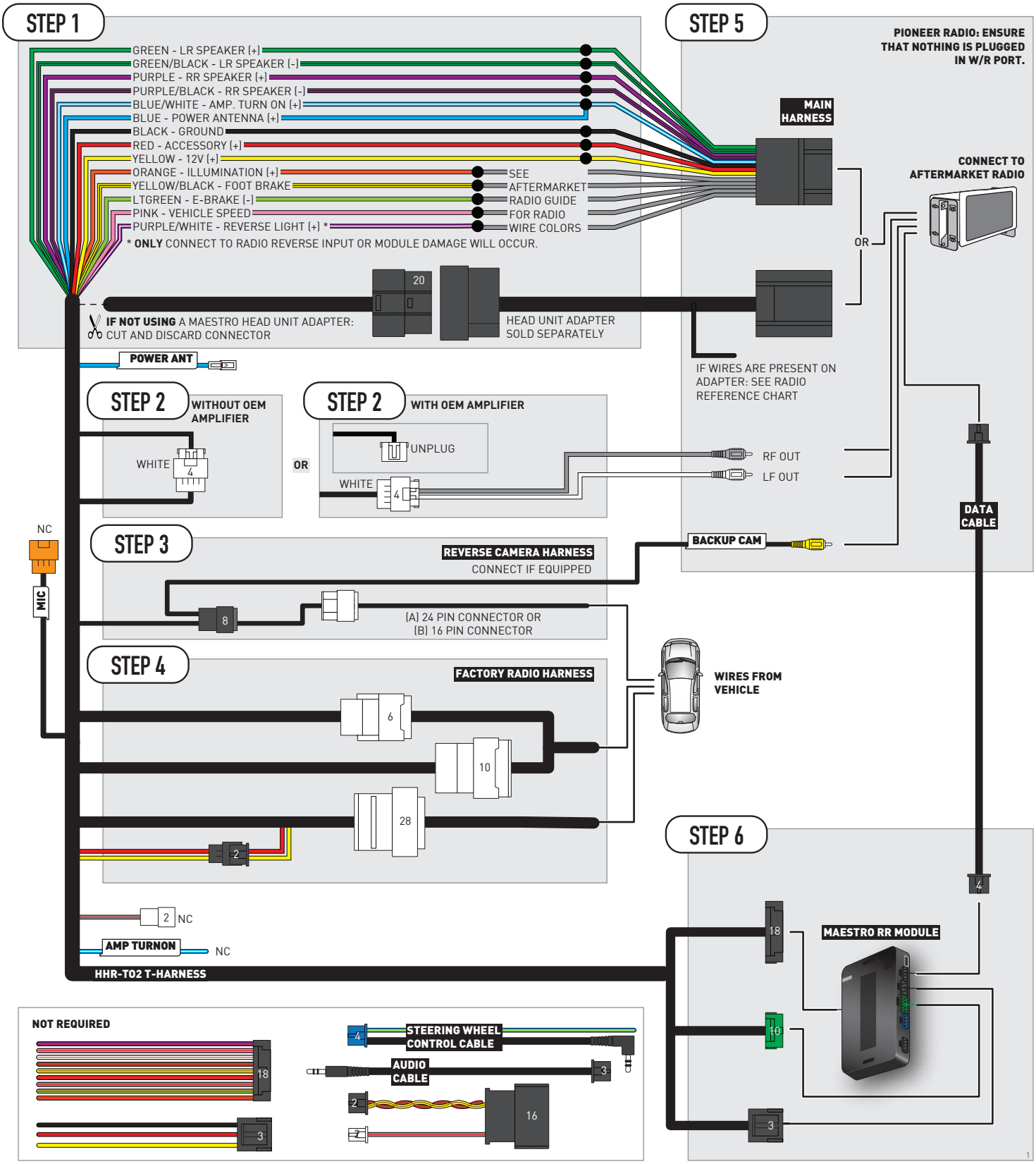
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WIRING DIAGRAM



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

Head unit adapter wiring (optional accessory, sold separately)

ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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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

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INSTALL GUIDE

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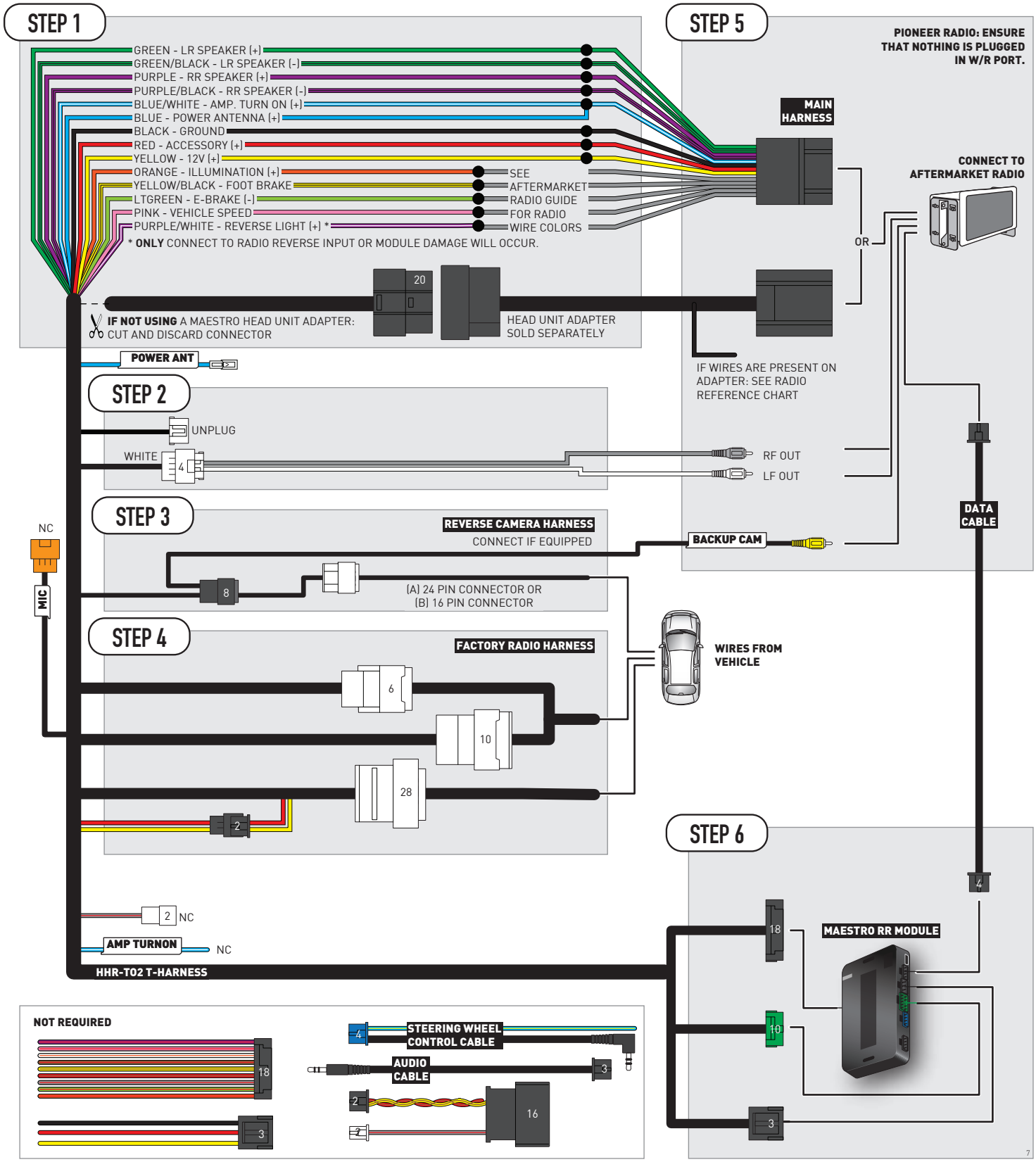
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TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	If installing a modular radio 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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2014-2019
TOYOTA COROLLA
WITH FACTORY 6.1 INCH SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Plug in the HRR-TO3 4-pin white connectors.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

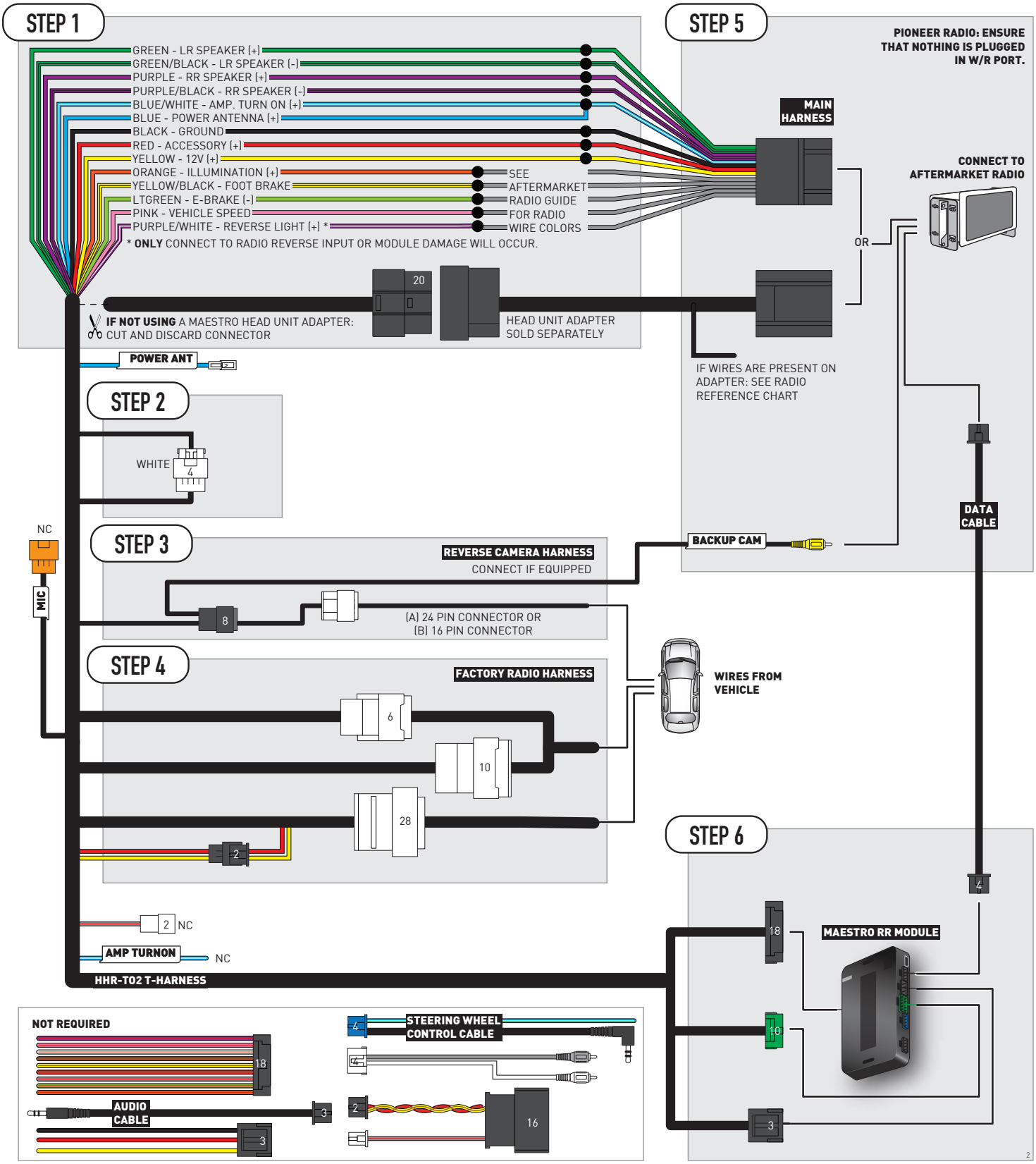
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

Automotive Data Solutions Inc. © 2024

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR. If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2014-2019
TOYOTA HIGHLANDER

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

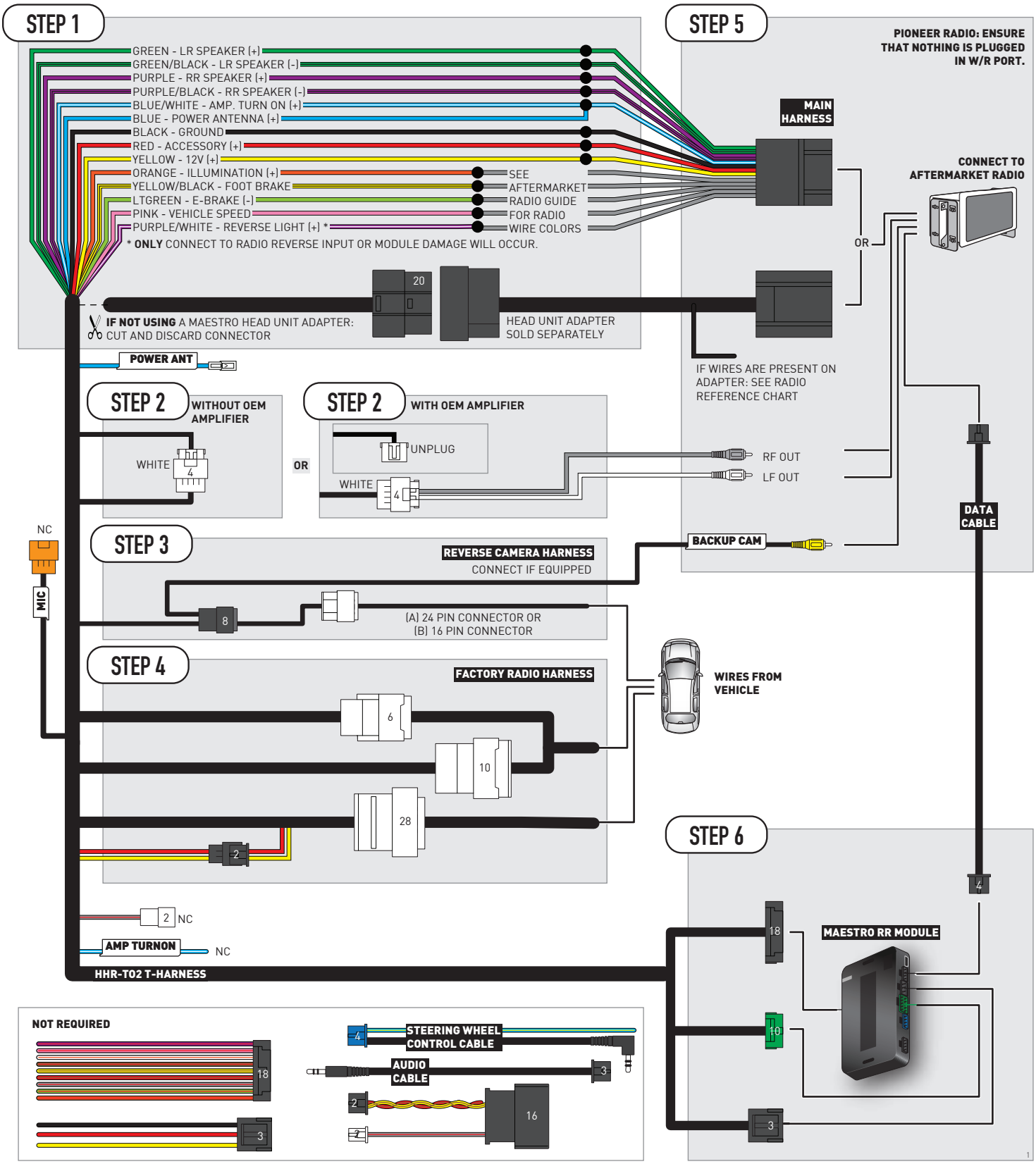
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

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WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the TO2 harness, not the OBD2. Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the TO2 harness, not the OBD2, then reset the RR. If still experiencing limited functionality, try connecting the black 2 pin from the TO2 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2012-2016
TOYOTA PRIUS

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

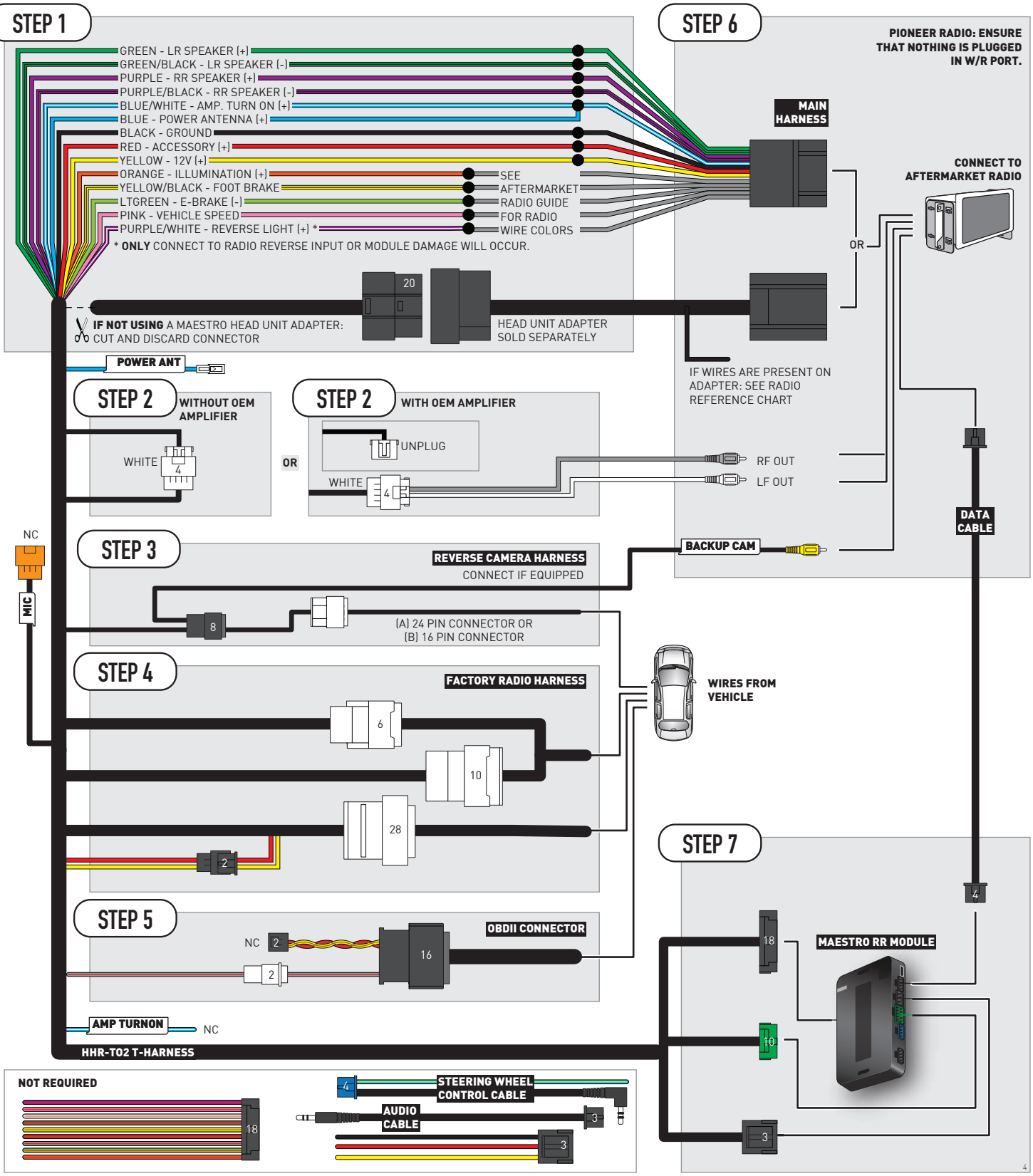
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

4

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
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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

2012-2019
TOYOTA PRIUS C

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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iDatalink Maestro HHR-TO2 Installation Harness

PROGRAMMED FIRMWARE: TO2-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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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

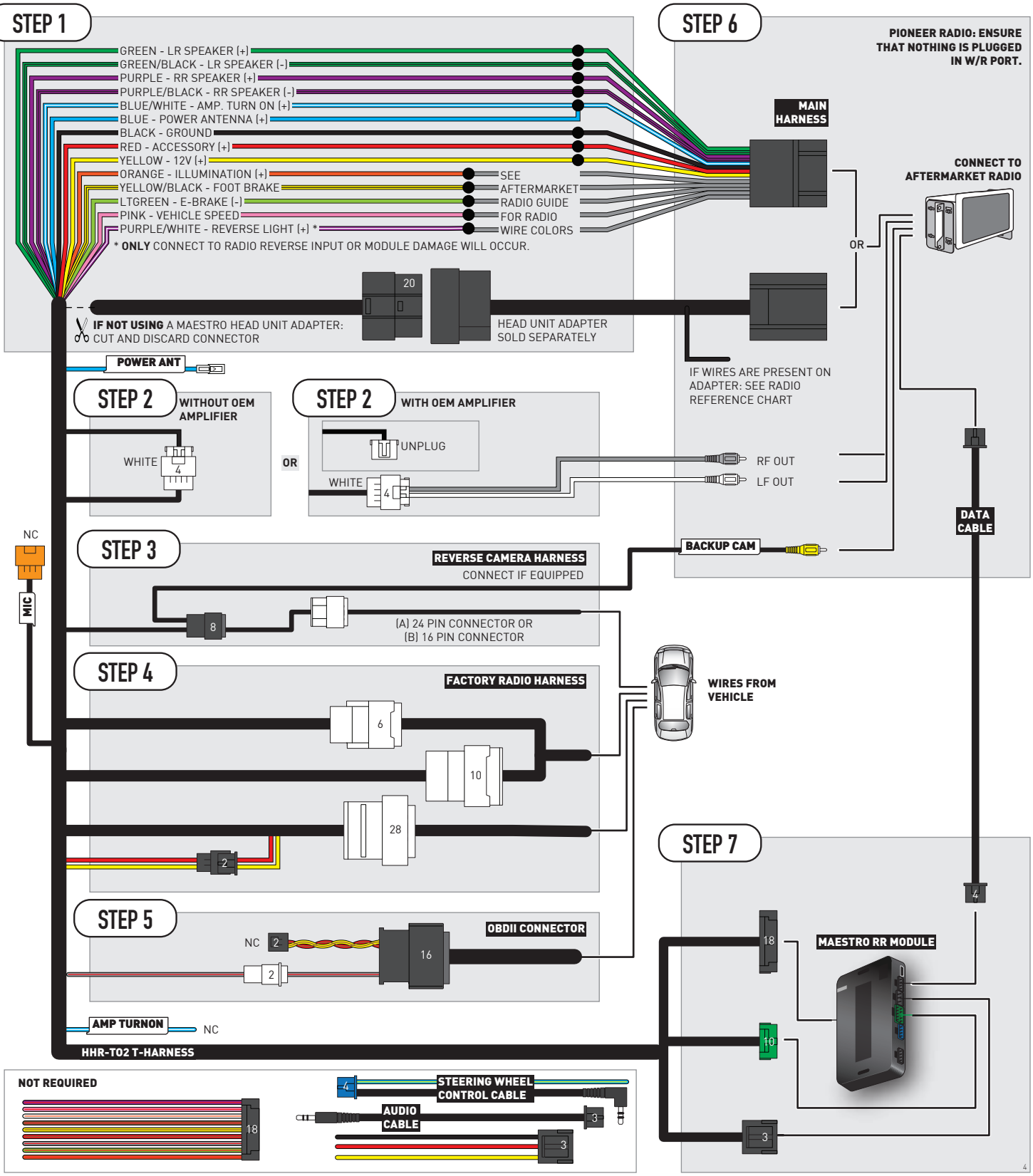
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

4

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR. If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2012-2017
TOYOTA PRIUS V

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+





HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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-PIO1, SON1, KEN1, KEN2, ALP1

Radar Detectors 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

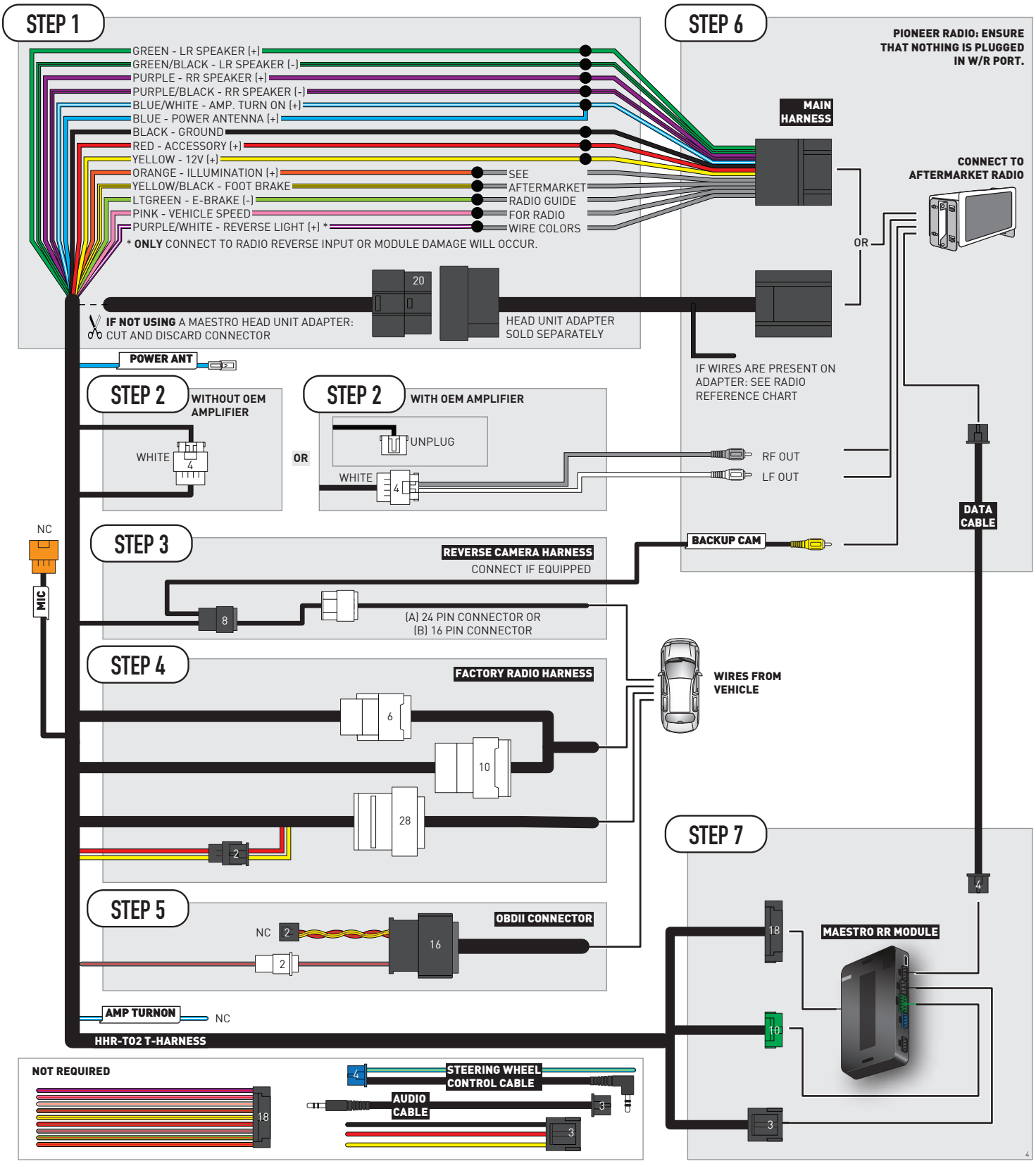
MODE - Change camera views

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4

WIRING DIAGRAM



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

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
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TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2017-2019
TOYOTA PRIUS
WITHOUT 11.6 INCH FACTORY SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+





HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio

If using head unit adapter (sold separately), connect HRR-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

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- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

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

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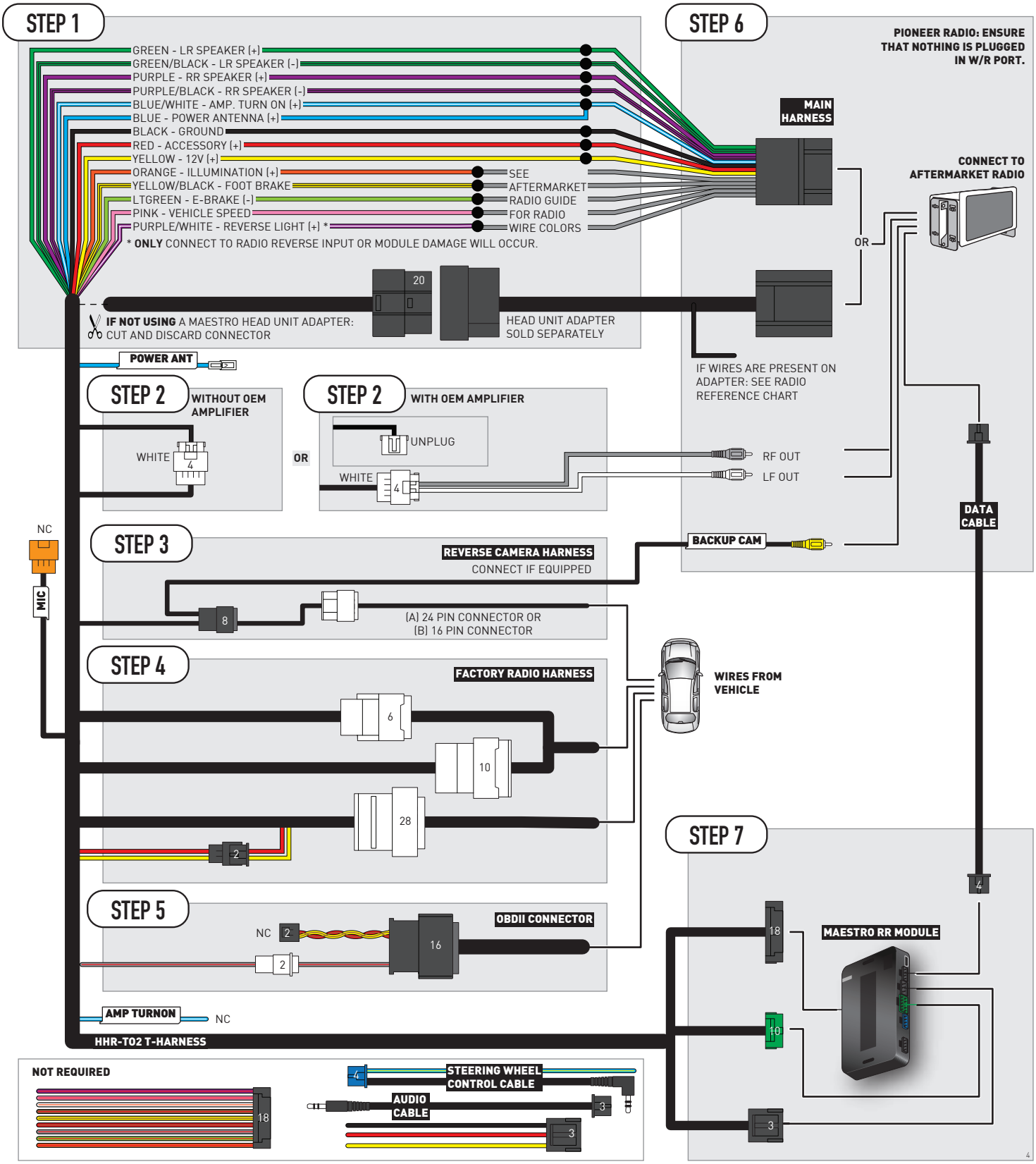
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4

WIRING DIAGRAM



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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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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

2013-2018
TOYOTA RAV 4
WITH FACTORY 6.1 INCH SCREEN

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+





HEAD UNIT
ADAPTER READY

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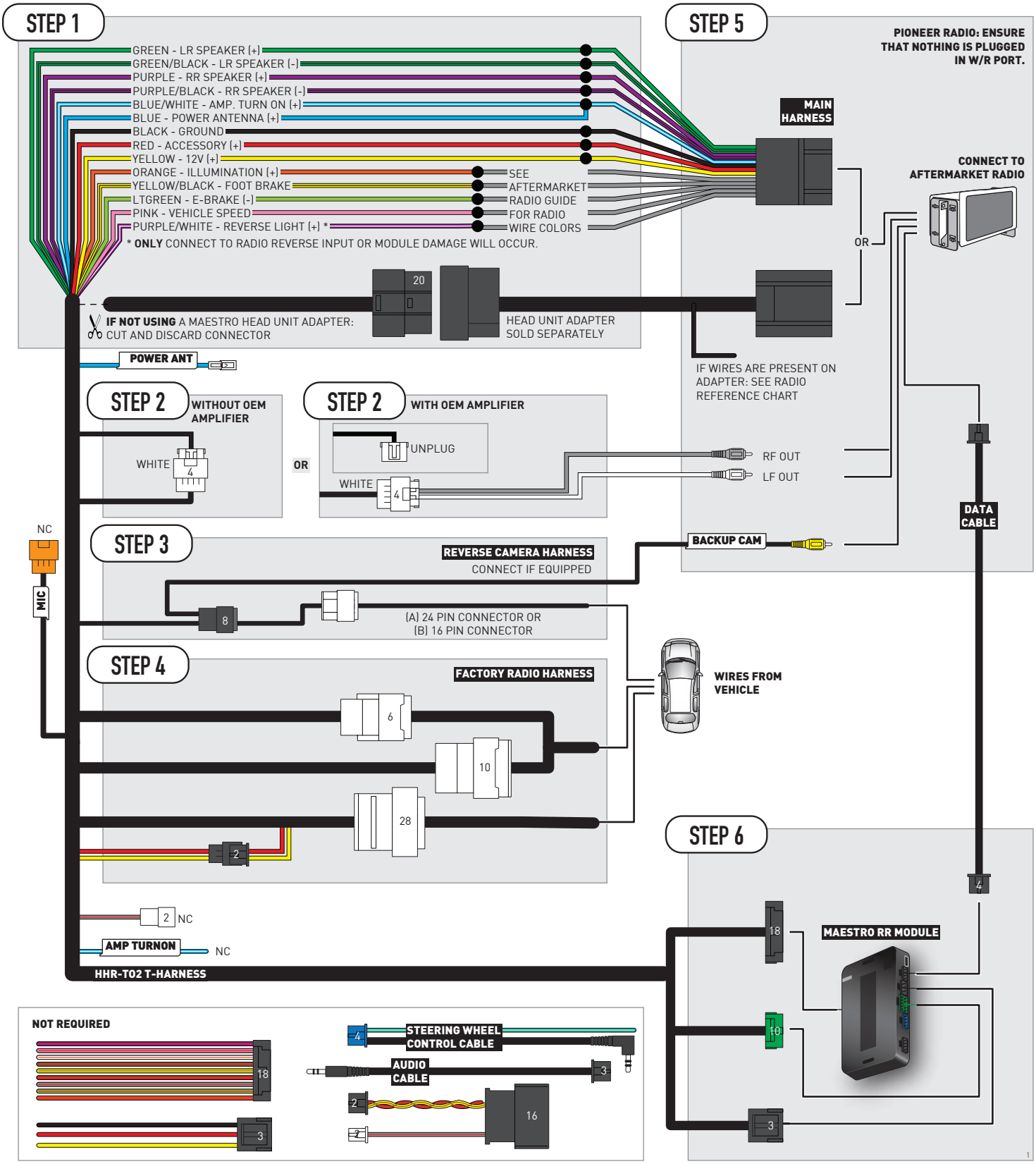
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1

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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR. If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2018-2019
TOYOTA SEQUOIA

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

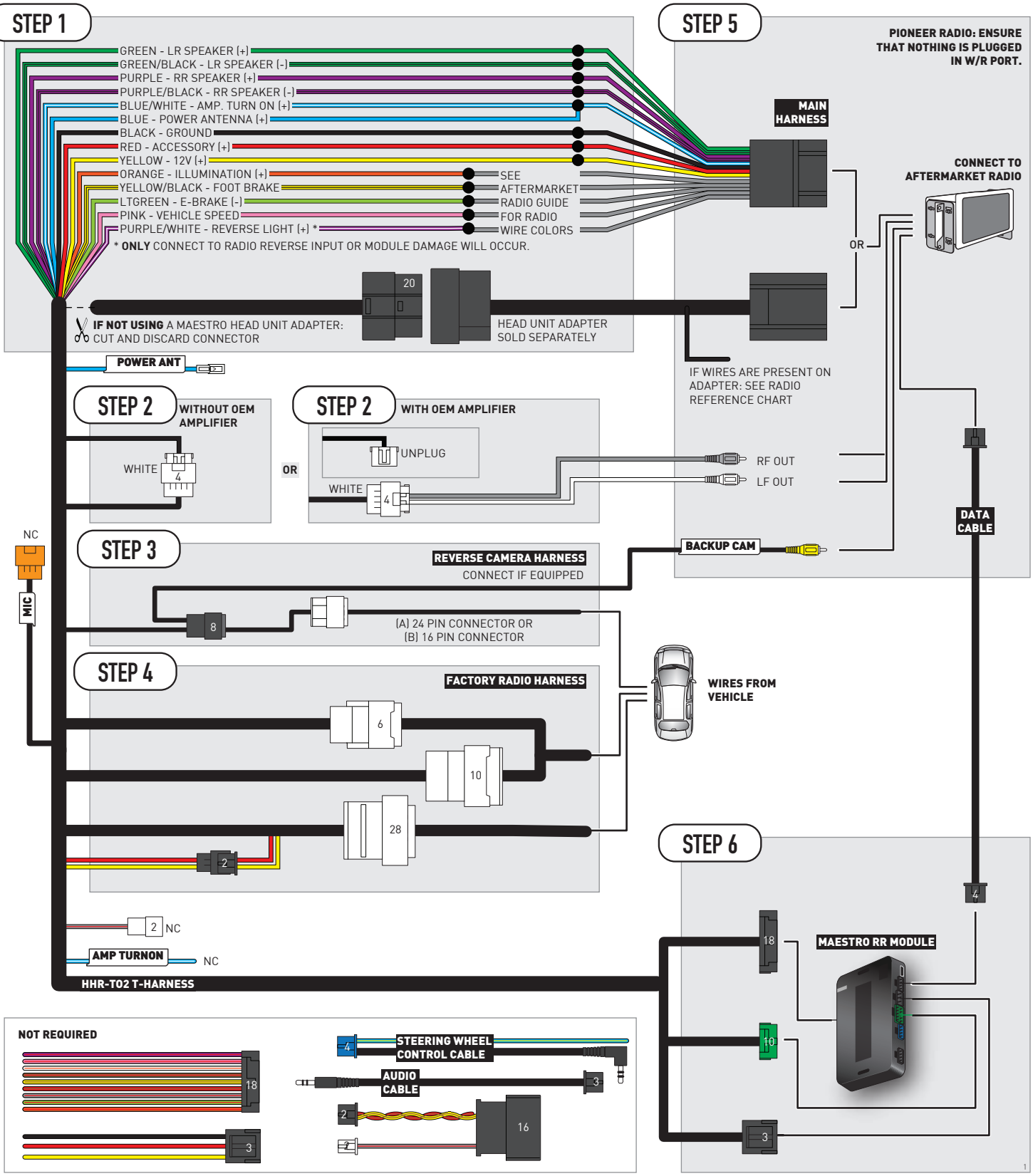
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

Automotive Data Solutions Inc. © 2024

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the TO2 harness, not the OBD2. Reset the RR.
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TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2014-2017
TOYOTA SEQUOIA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

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PROGRAMMED FIRMWARE: TO2-RR-DS

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Installation, product information, vehicle specific videos.	VIDEO HELP	
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Software to program module.	WEBLINK	

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.

  If using head unit adapter (sold separately), connect HRR-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Unplug the Black 2 pin connector near the 28 Pin connector of the HRR-TO2 T-harness.
- Plug the Black 2 pin connector of the HRR-TO2 T-harness into the Black 2 pin connector on the OBDII harness.
- Plug the male WHITE 2 pin connector of your HRR-TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

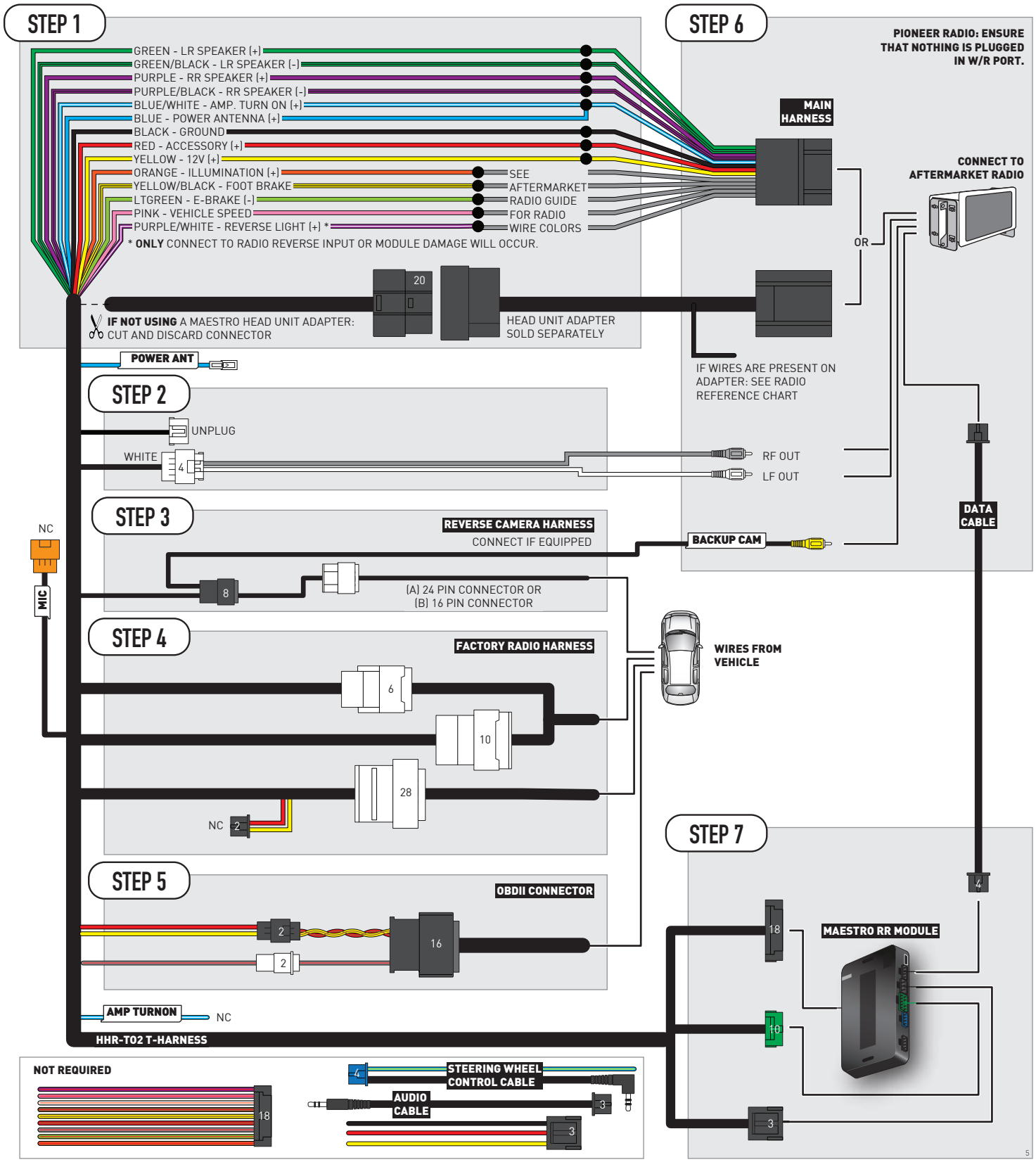
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

5

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **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. 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 OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2015-2019
TOYOTA SIENNA

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
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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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

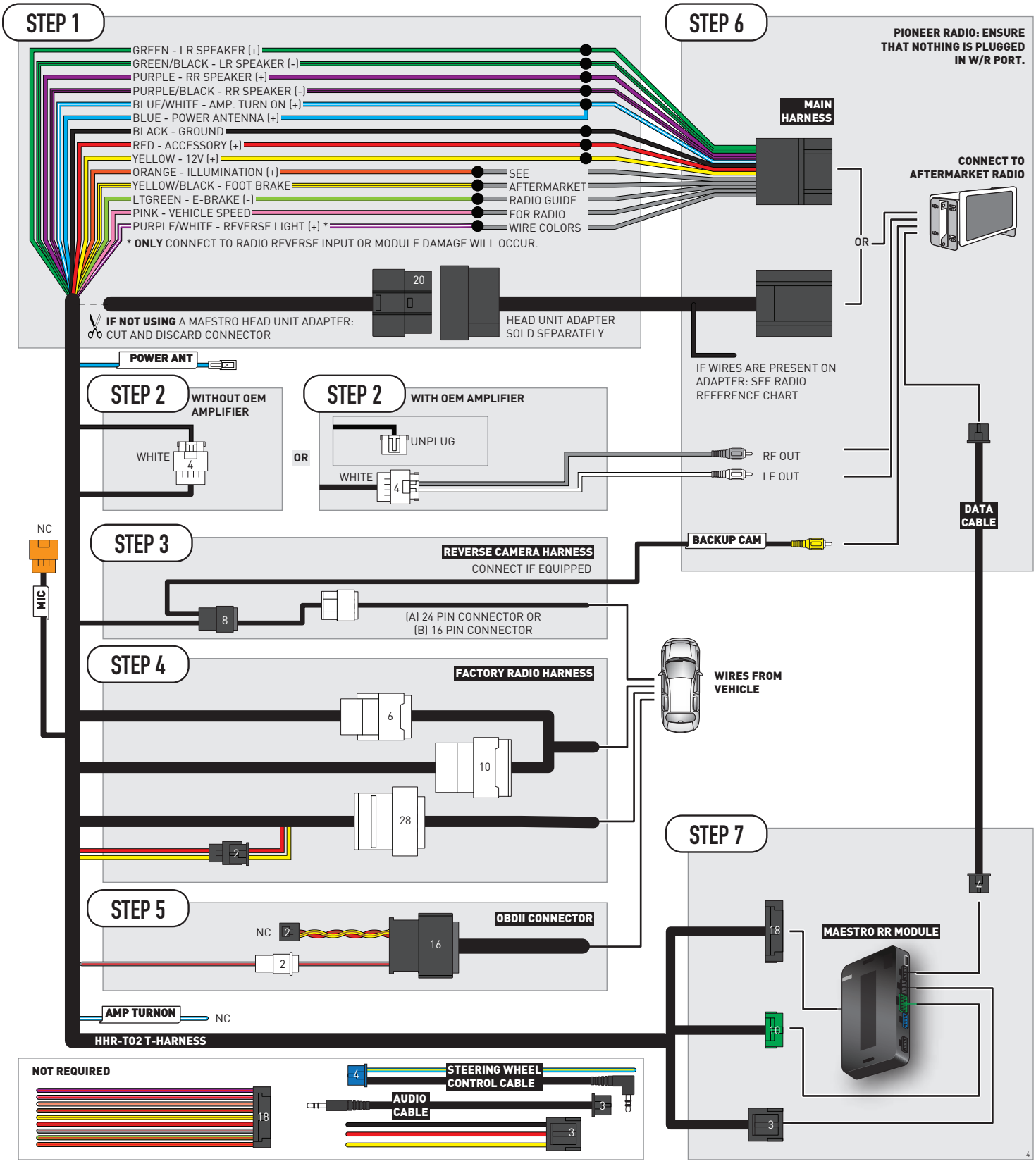
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4

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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2016-2019
TOYOTA TACOMA

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  If using head unit adapter (sold separately), connect HRR-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

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

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

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

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

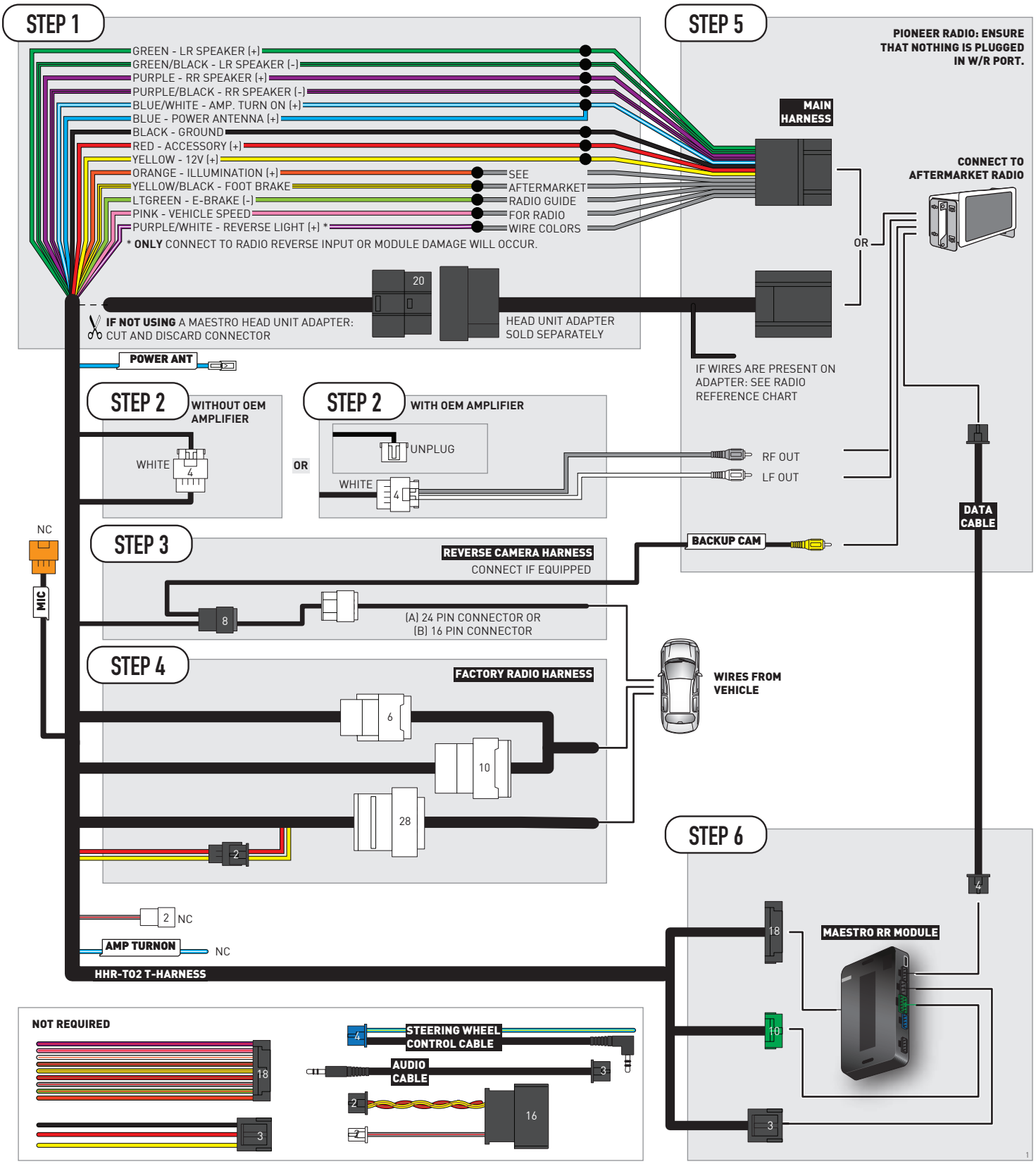
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

Automotive Data Solutions Inc. © 2024

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR. If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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 TACOMA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Unplug the Black 2 pin connector near the 28 Pin connector of the HRR-TO2 T-harness.
- Plug the Black 2 pin connector of the HRR-TO2 T-harness into the Black 2 pin connector on the OBDII harness.
- Plug the male WHITE 2 pin connector of your HRR-TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

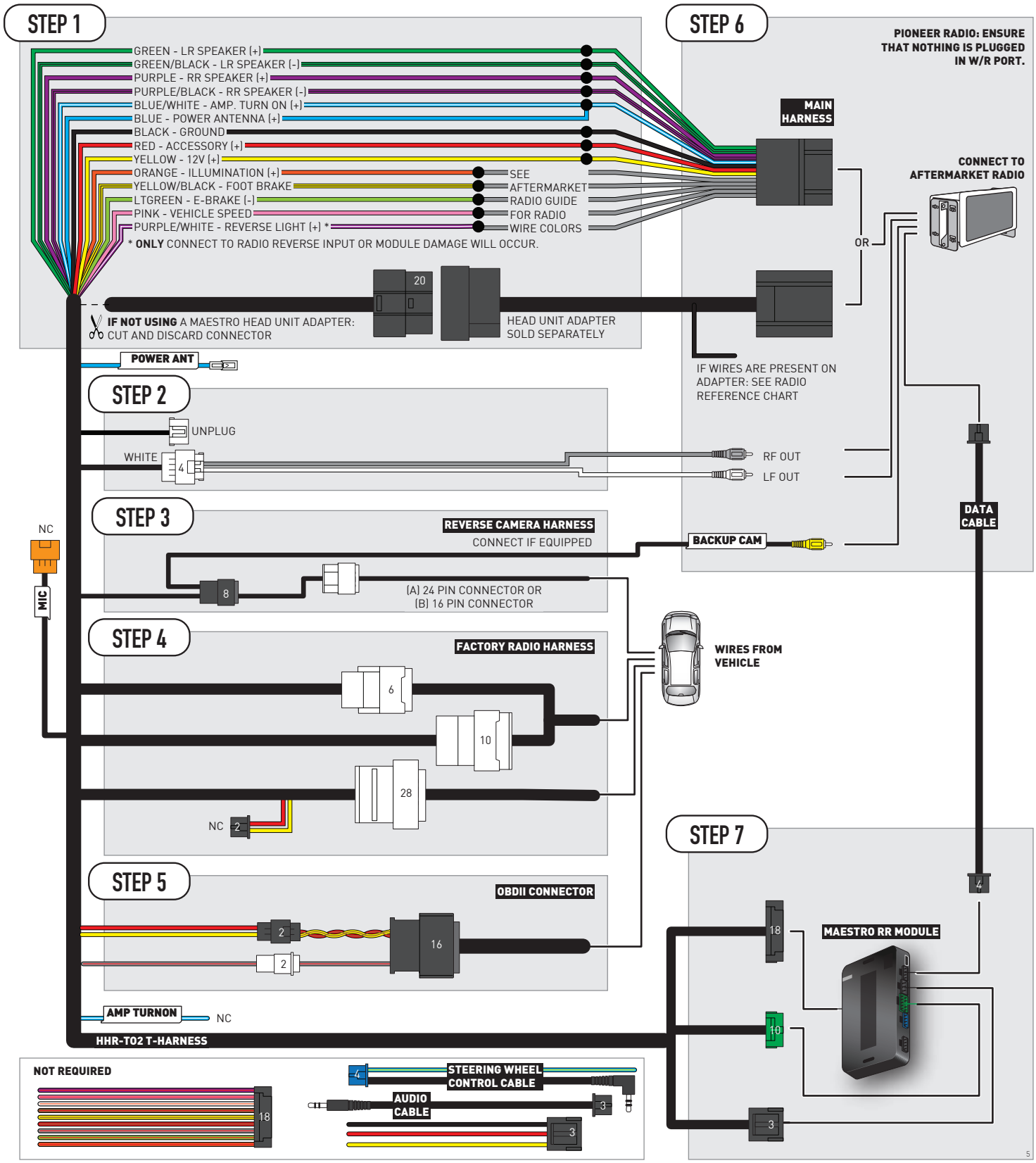
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

5

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. Reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2014-2019
TOYOTA TUNDRA

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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-PIO1, SON1, KEN1, KEN2, ALP1

Radar Detectors 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier or a non-JBL amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a JBL amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

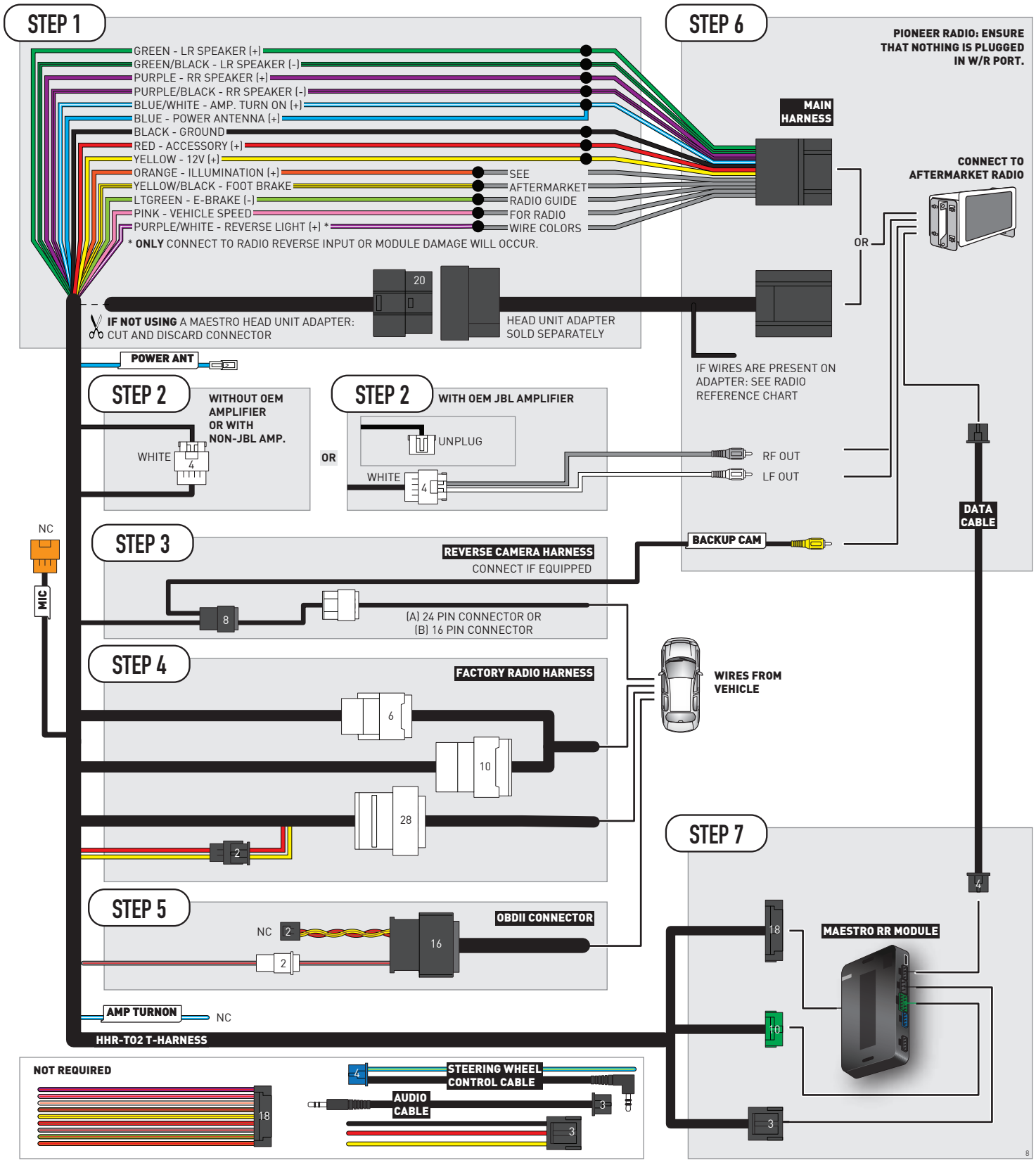
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

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WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the TO2 harness, not the OBD2. Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the TO2 harness, not the OBD2, then reset the RR. If still experiencing limited functionality, try connecting the black 2 pin from the TO2 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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

2015-2016
TOYOTA VENZA

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-DS

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1 866 427-2999

maestro.support@idatalink.com

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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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Determine if the vehicle has a factory amplifier.

If the vehicle DOES NOT have a factory amplifier:

- Plug in the HRR-TO2 4-pin white connectors.

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

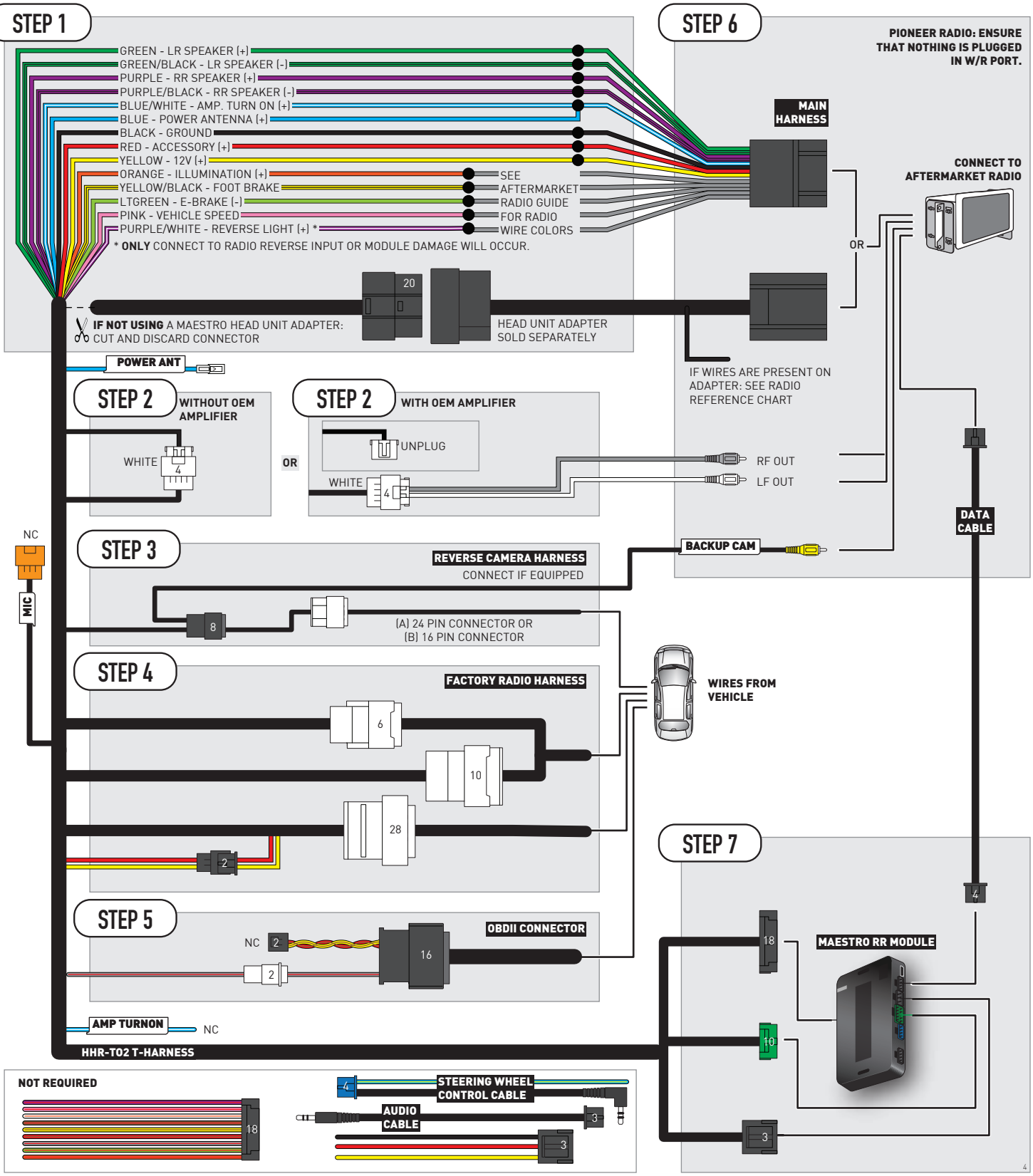
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

4

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do 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. 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 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2. Reset the RR.
Gauges work but are limited or data features are limited (turn signals, very limited gauge functionality).	Ensure 2 pin black connector is plugged into the 2 pin black of the 28 pin connector of the T02 harness, not the OBD2, then reset the RR. If still experiencing limited functionality, try connecting the black 2 pin from the T02 to the OBD2 2 pin black connector, then reset the RR.
TPMS display shows N/A or does not update tire pressures.	Reset the RR. Drive the vehicle. If still not updating, contact tech support.
The radio is NOT turning ON and the light on the Maestro is blinking **RED TWICE**.	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.
The radio is turning ON and the light on the Maestro is blinking **RED TWICE**.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
Radio will not turn off. Vehicle has aftermarket remote start.	Contact technical support for assistance.

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
WITH JBL AND NAV

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+





HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-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 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-TO2 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-TO2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-TO2 T-harness and match the wire functions.

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

STEP 2

- Unlug the HRR-TO2 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- If the vehicle is equipped with an OEM backup camera, a 16 pin and 24 pin adapter are provided to retain it. Identify which harness your vehicle has and connect the adapter to the vehicle and to the 8 pin connector on the HRR-TO2 T-harness.

STEP 4

- Connect the factory harness to the HRR-TO2 T-harness.

STEP 5

- Plug the male WHITE 2 pin connector of your HRR-TO2 T-harness into the OBDII harness.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

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

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

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

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

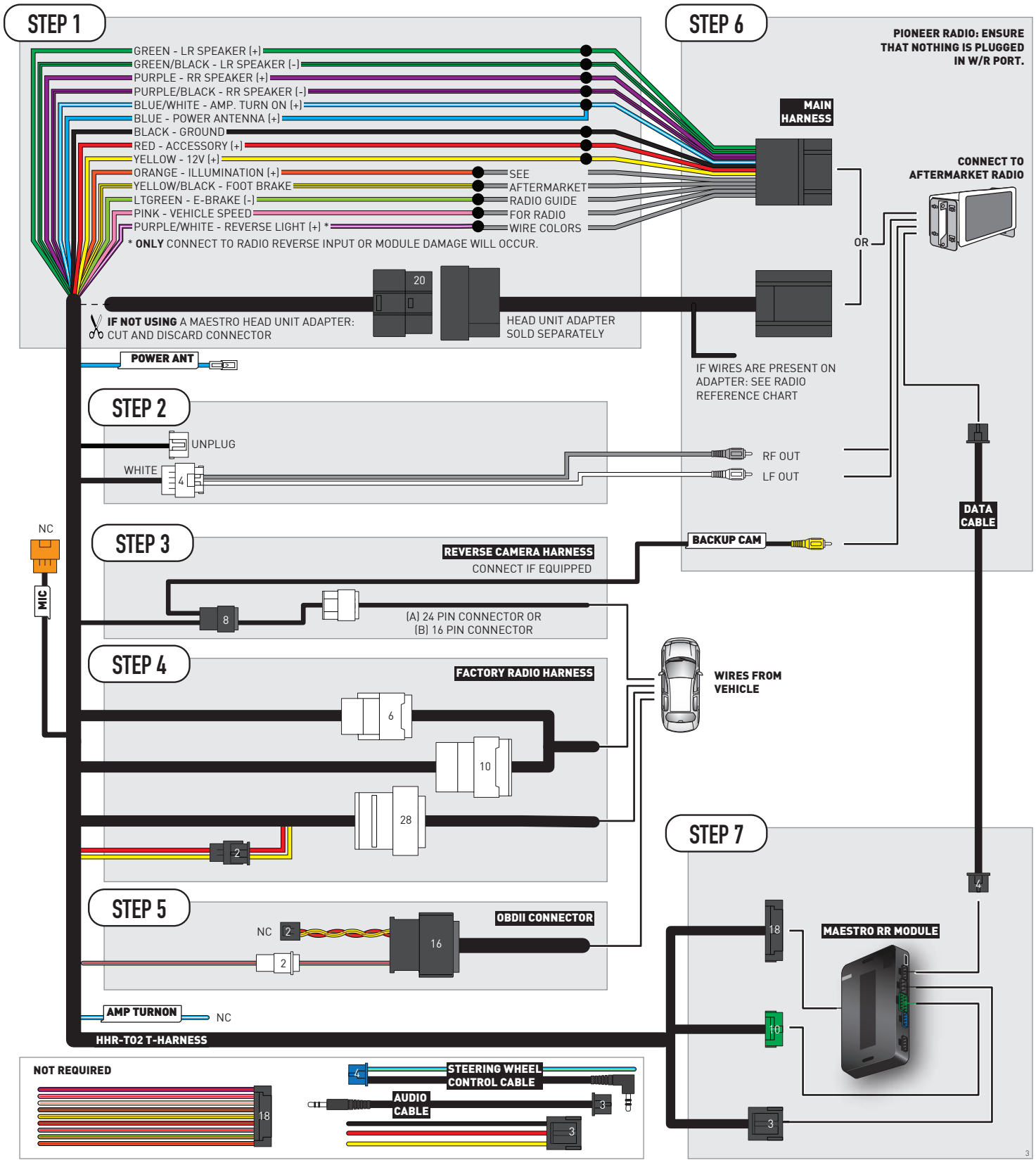
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

SEEK DOWN - Change guidelines between 2 static line options and dynamic lines

Automotive Data Solutions Inc. © 2024

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

T02 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
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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
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