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, FACTORY AMPLIFIER, 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-AS

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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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

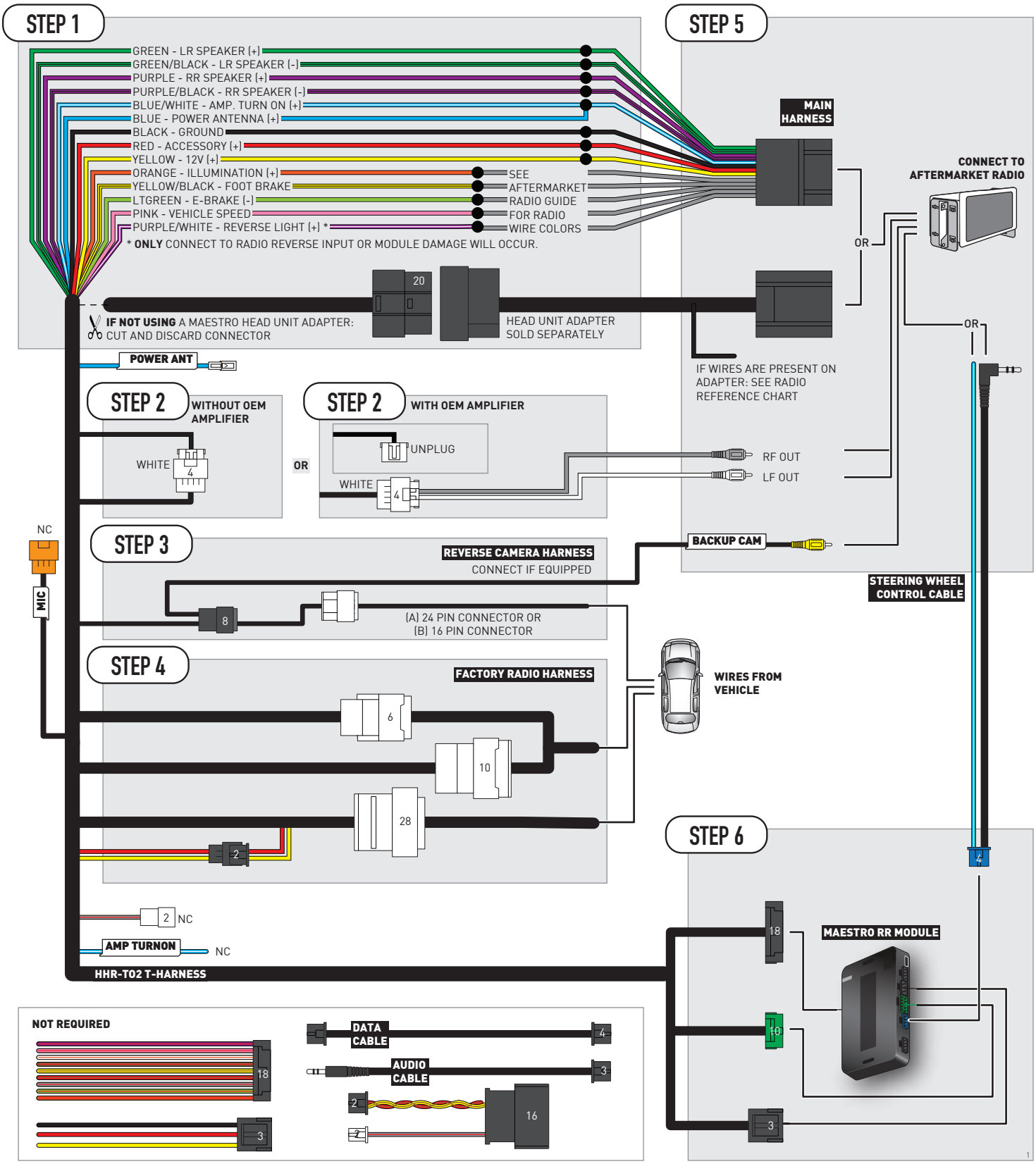
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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Installation, product information, vehicle specific videos.	VIDEO HELP	
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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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

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

360 CAMERA CONTROLS (with vehicle in reverse)

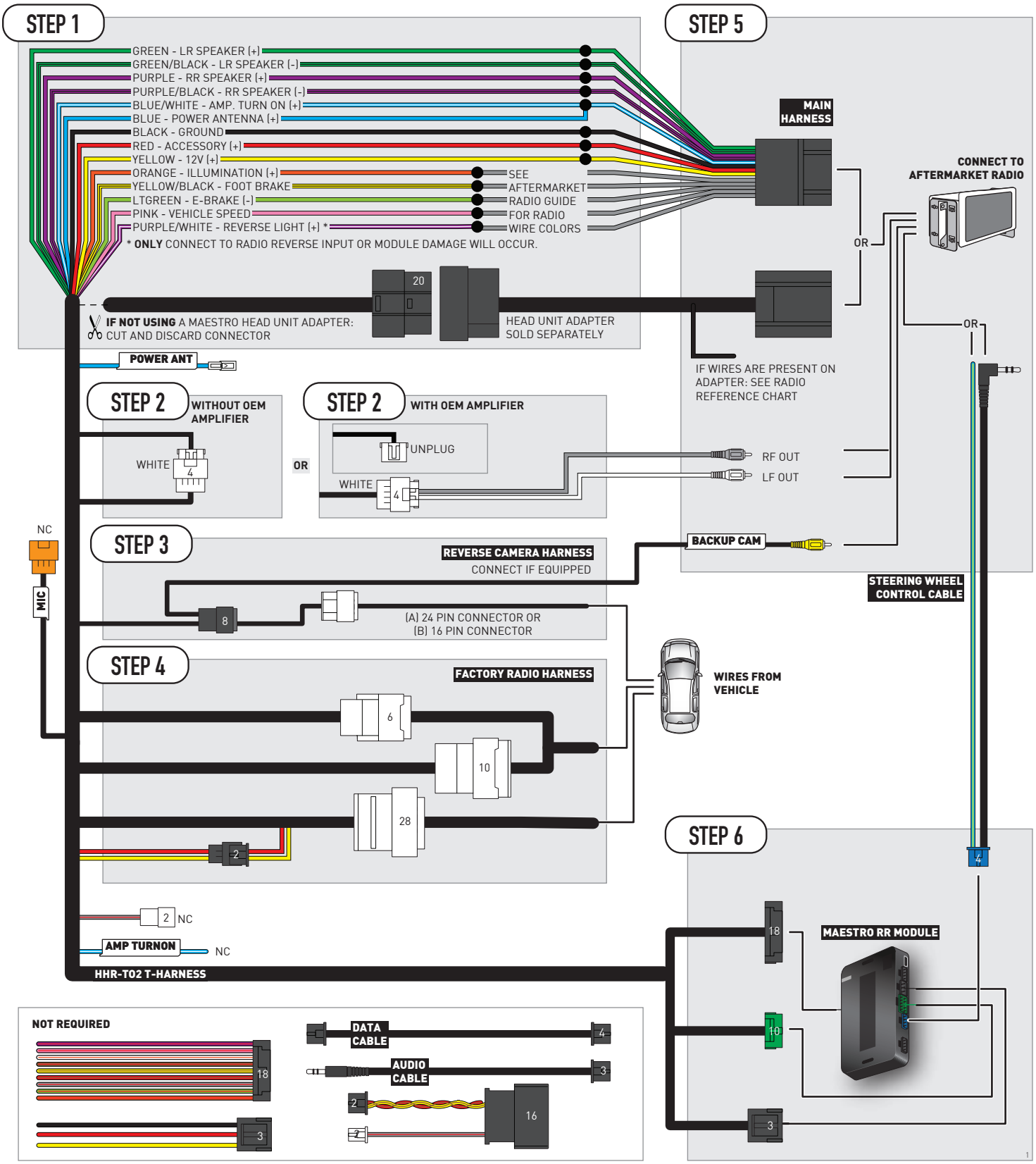
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SEEK UP - Zoom in/out on overhead view

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WIRING DIAGRAM



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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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

Head unit adapter wiring (optional accessory, sold separately)

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VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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INSTALL GUIDE

2013-2014
TOYOTA AVALON
WITH NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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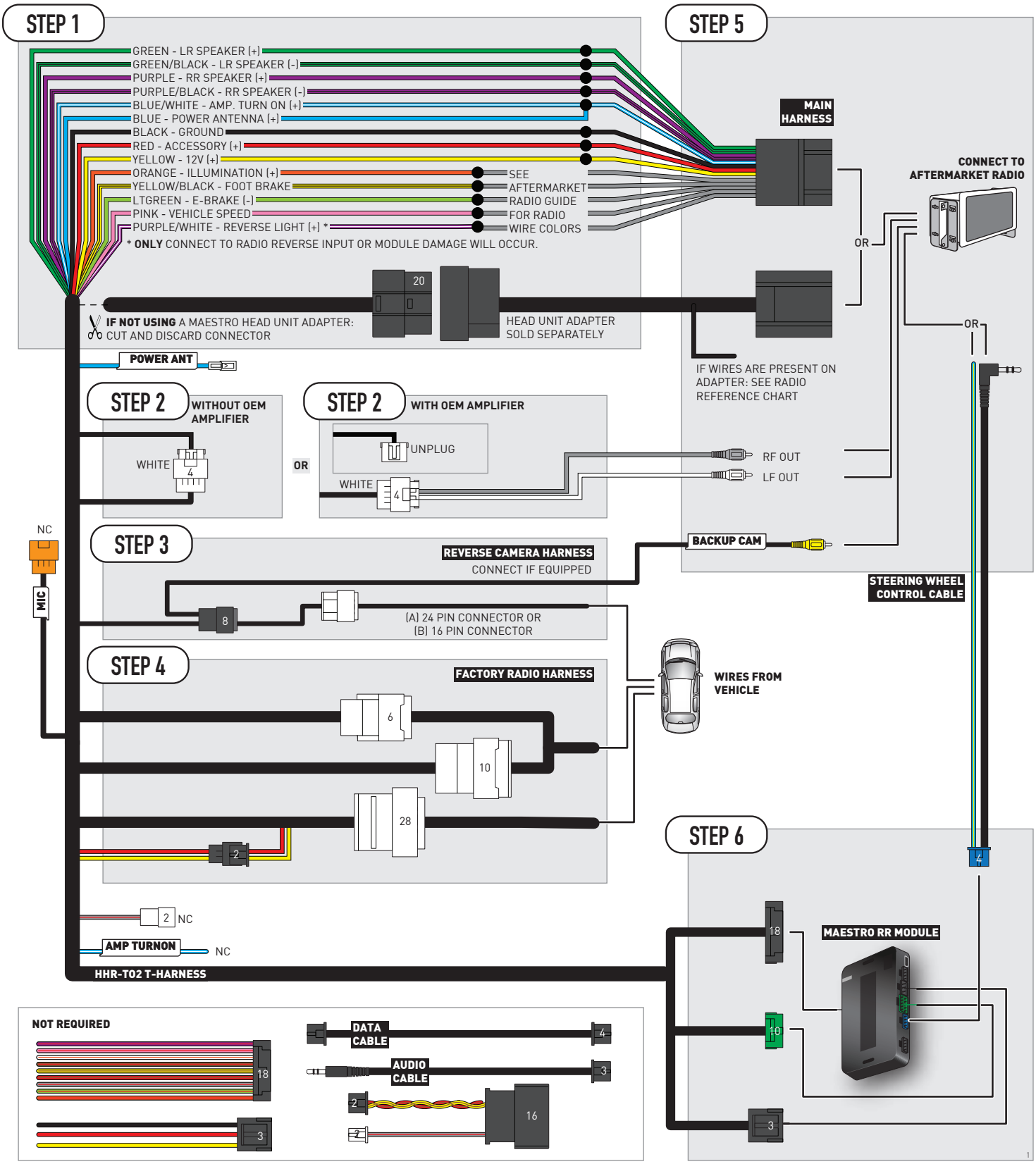
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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White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

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Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2018
TOYOTA C-HR
WITHOUT APPLE CARPLAY OR ANDROID AUTO

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, 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-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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-TO2 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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

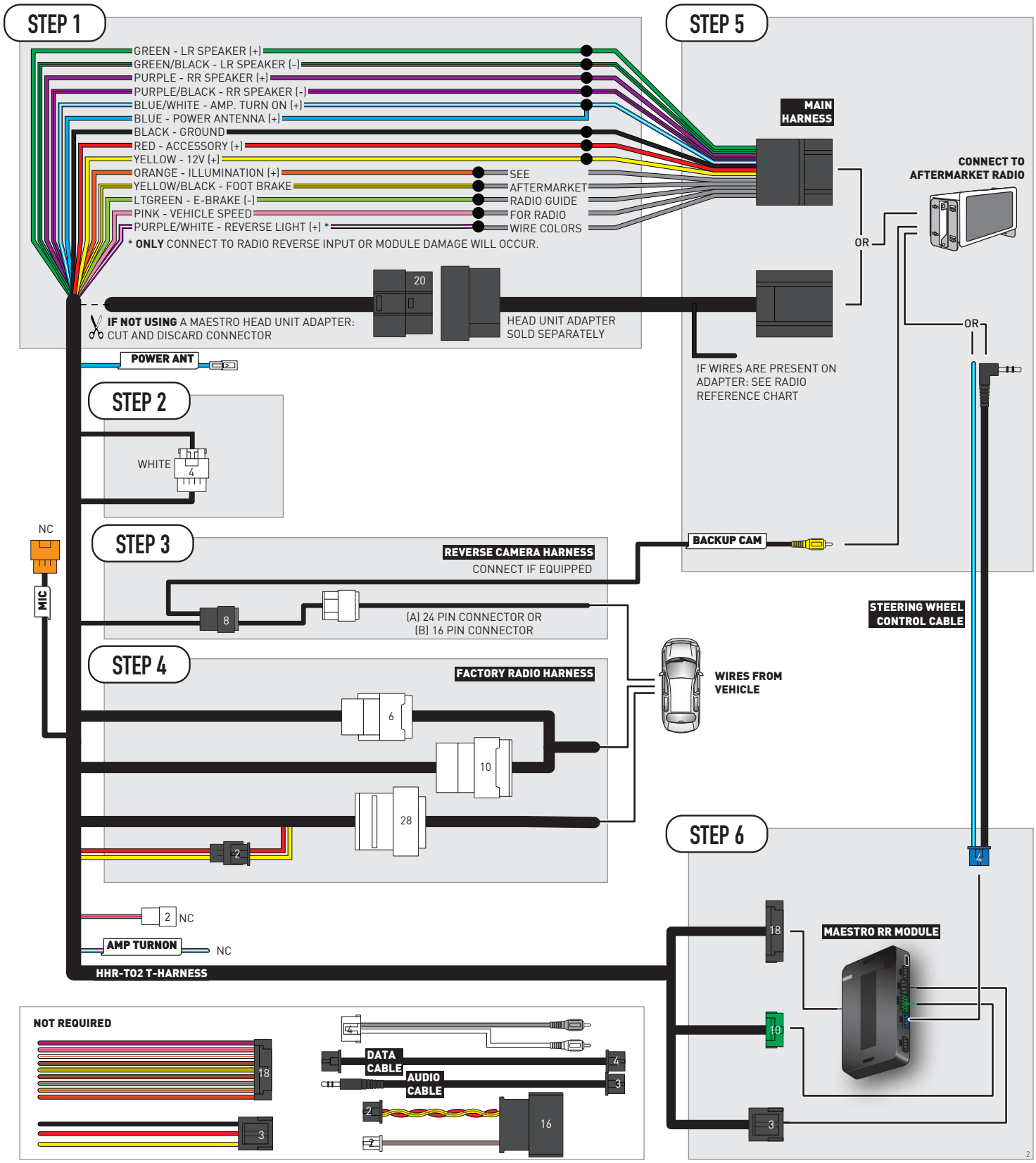
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
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MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2015-2017
TOYOTA CAMRY

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, 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-AS

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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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

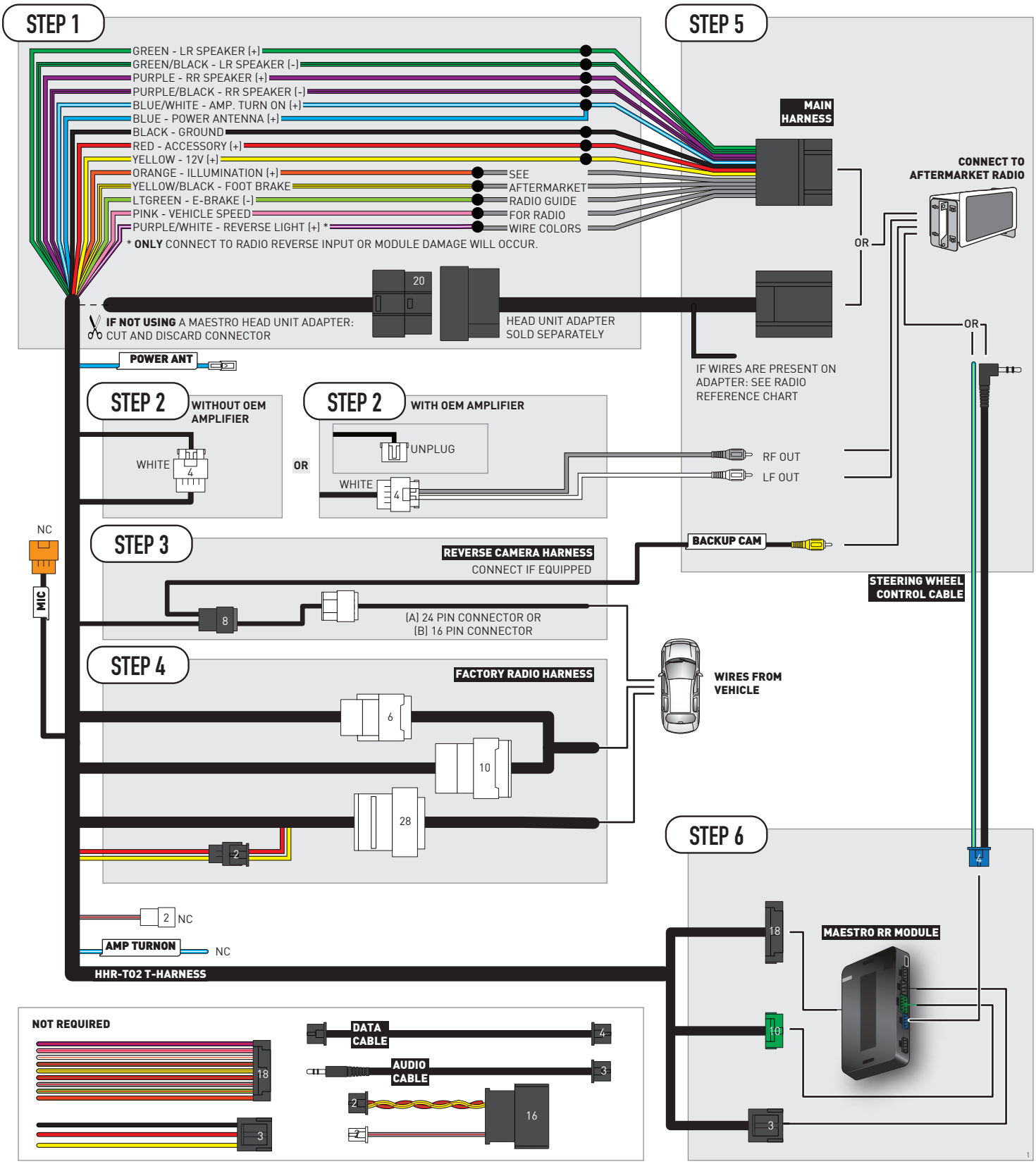
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		1 GREEN flash	After radio boots up : Normal operation.
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Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

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, FACTORY AMPLIFIER, 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-AS

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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Installation, product information, vehicle specific videos.	VIDEO HELP	
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- Connect the factory harness to the HRR-TO2 T-harness.

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360 CAMERA CONTROLS (with vehicle in reverse)

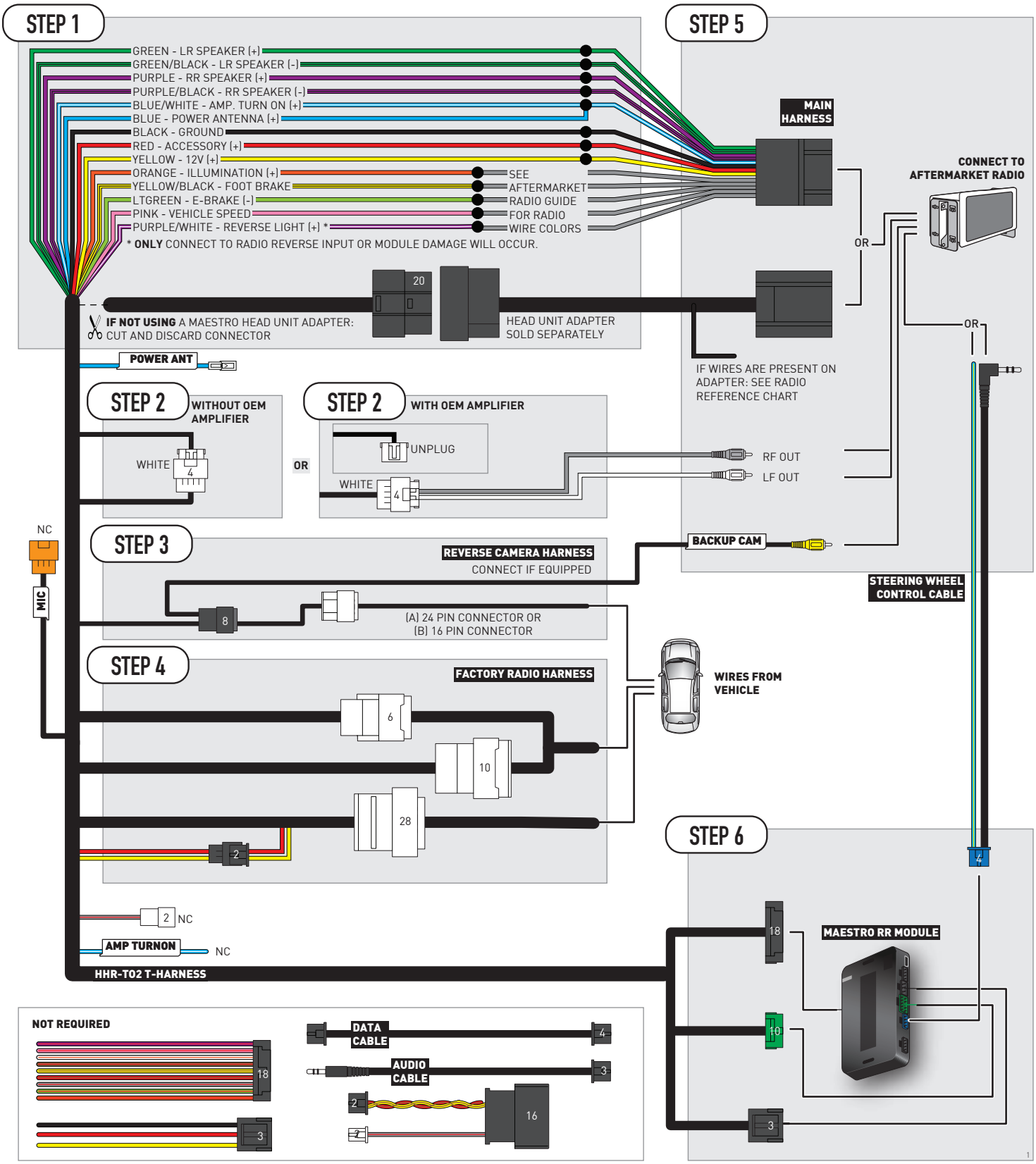
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

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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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2014
TOYOTA CAMRY
WITH FACTORY SCREEN AND HDD AND JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+





HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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 harnesses into the aftermarket radio.
- Plug the backup camera RCA (if applicable).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

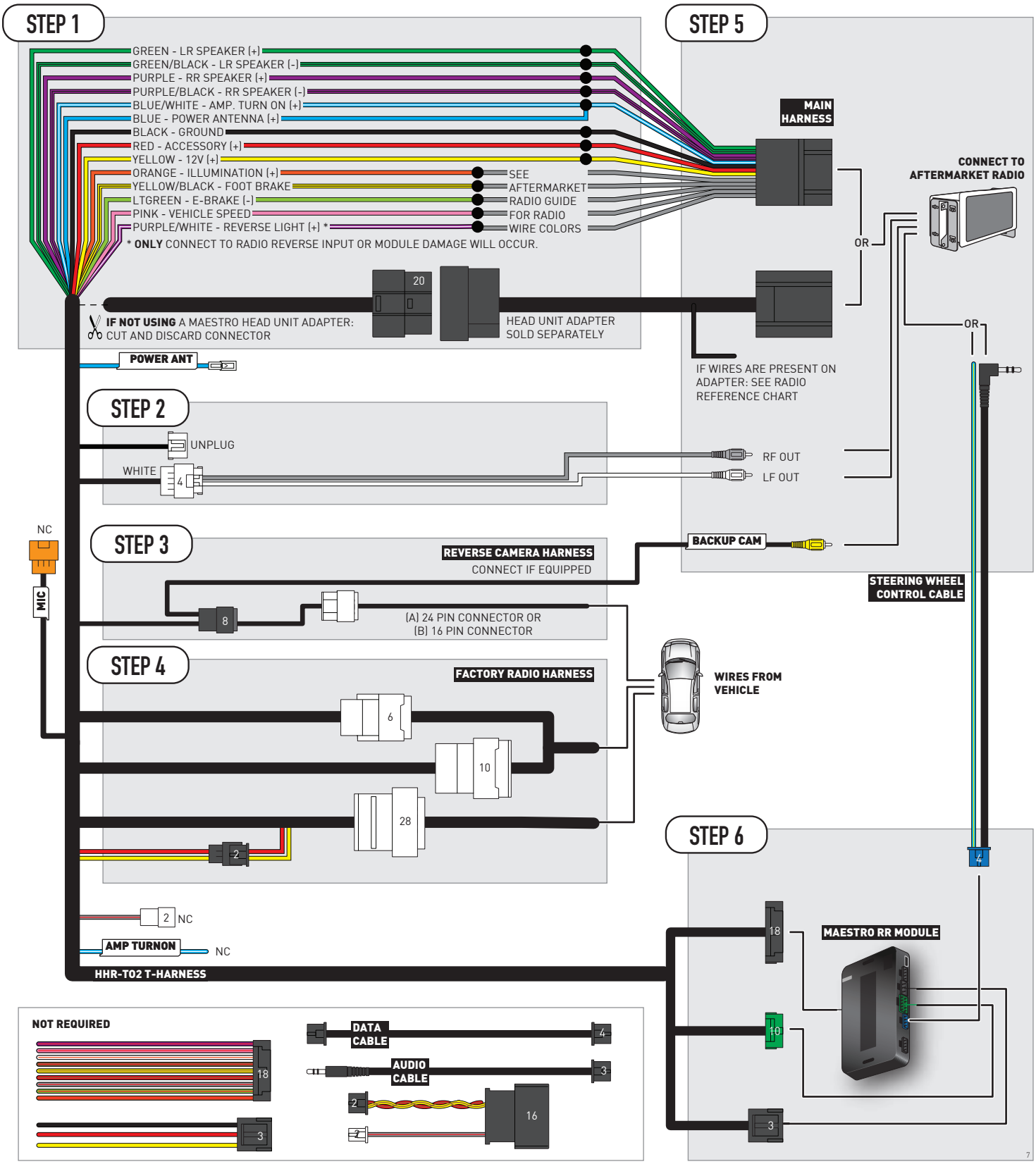
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

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

7

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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-TO2 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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

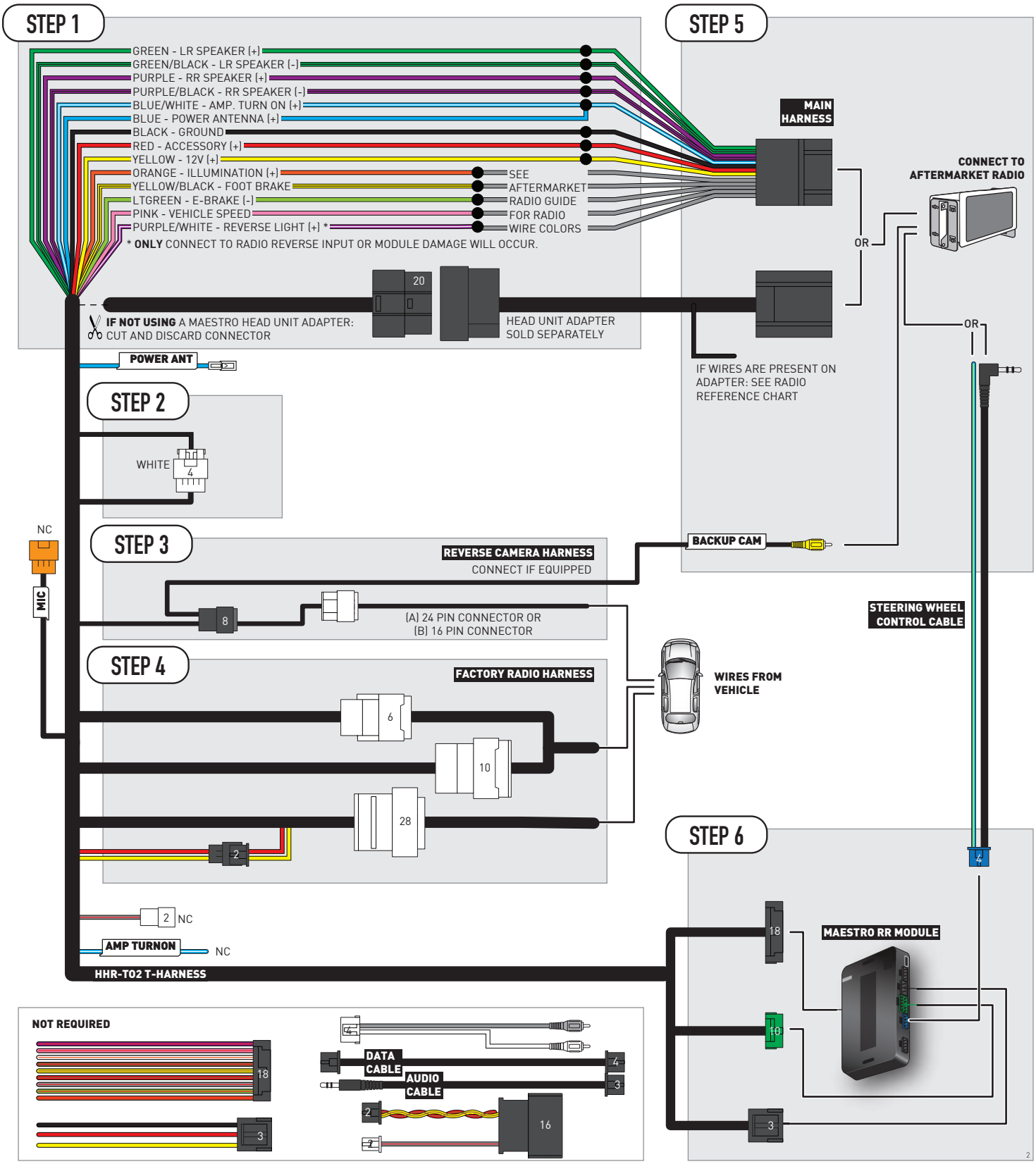
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
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MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2014-2019
TOYOTA HIGHLANDER

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-AS

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

WELCOME

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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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

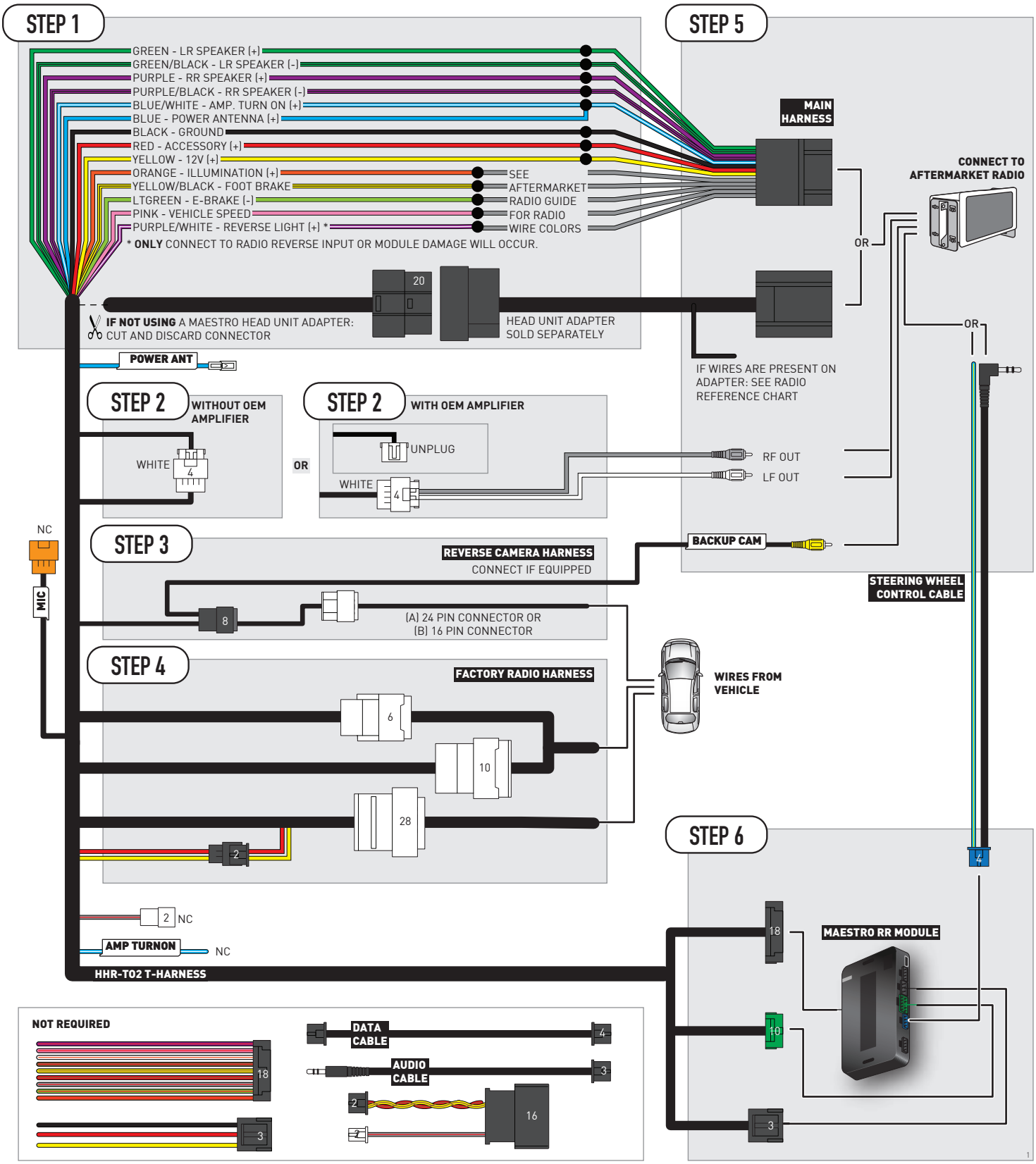
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

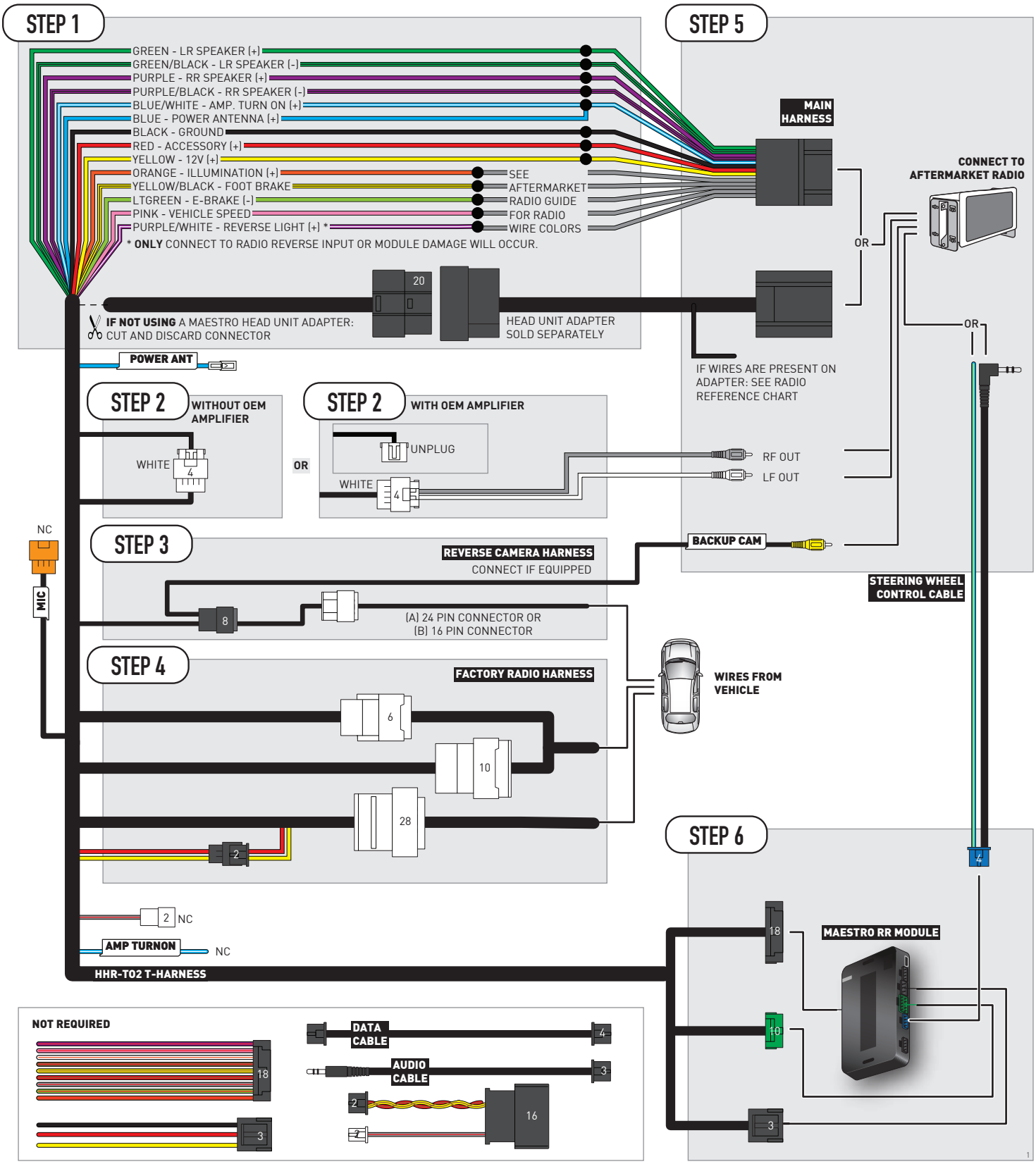
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Automotive Data Solutions Inc. © 2024

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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MAESTRO RR RESET PROCEDURE:

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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, FACTORY AMPLIFIER, 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-AS

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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:

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- Unlug the HRR-TO2 4-pin white connectors.
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STEP 4

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

STEP 5

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360 CAMERA CONTROLS (with vehicle in reverse)

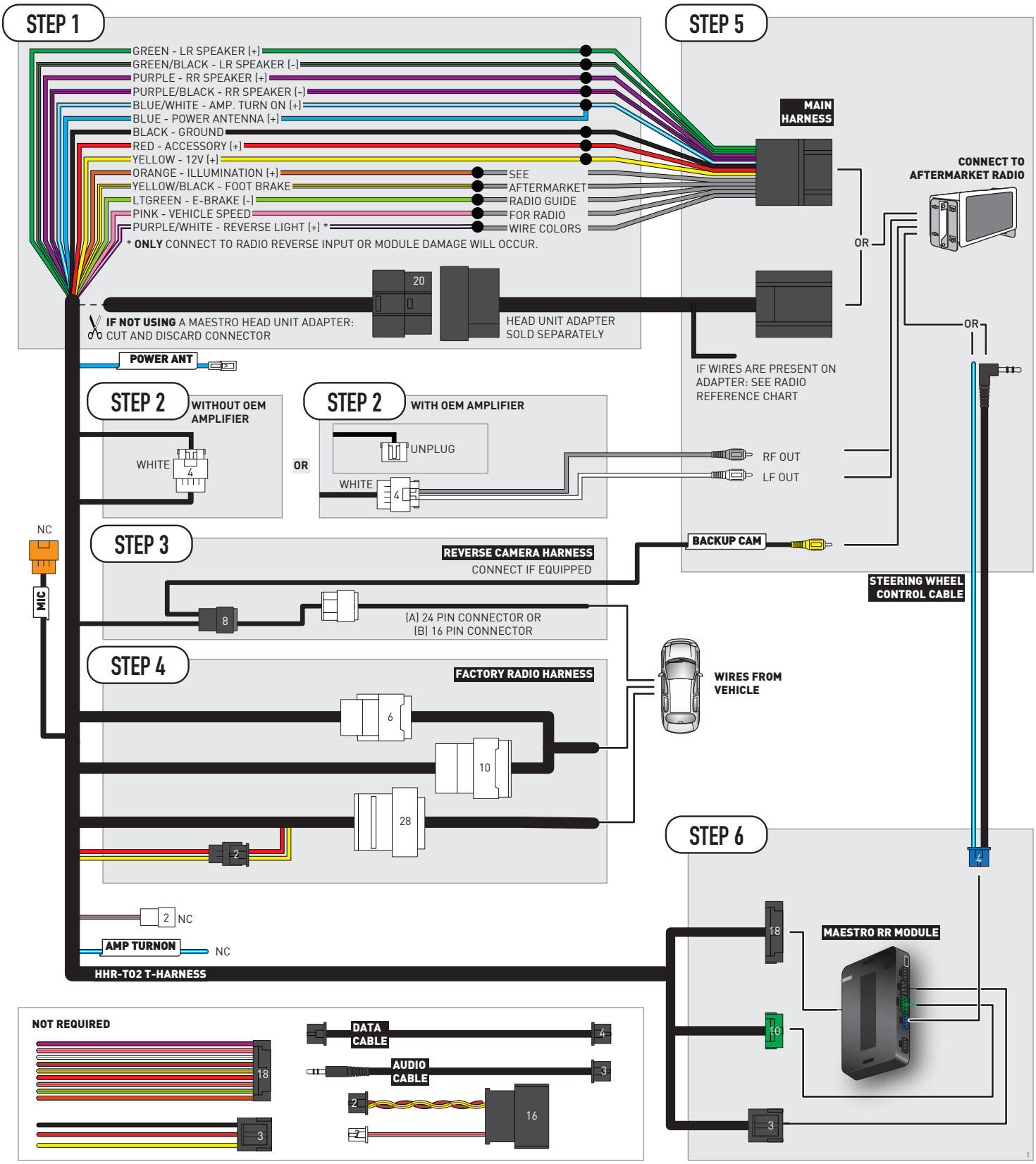
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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White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

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*Manually learn the buttons to the radio in the radio steering wheel control menu.

Head unit adapter wiring (optional accessory, sold separately)

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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	Blue/Yellow

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INSTALL GUIDE

2012-2017
TOYOTA PRIUS V

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, 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-AS

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ADDITIONAL INFORMATION AND ACCESSORIES

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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

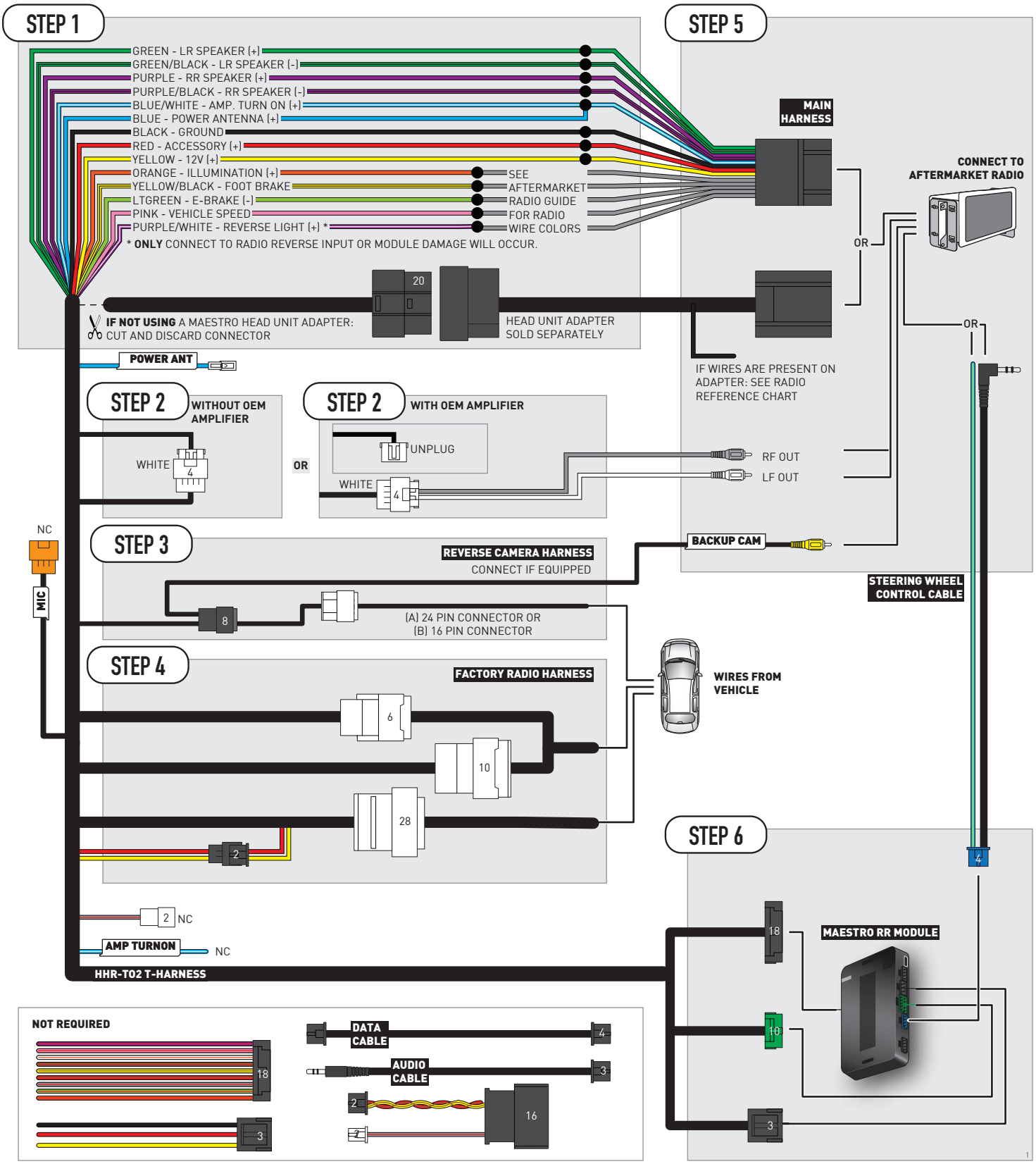
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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	
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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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

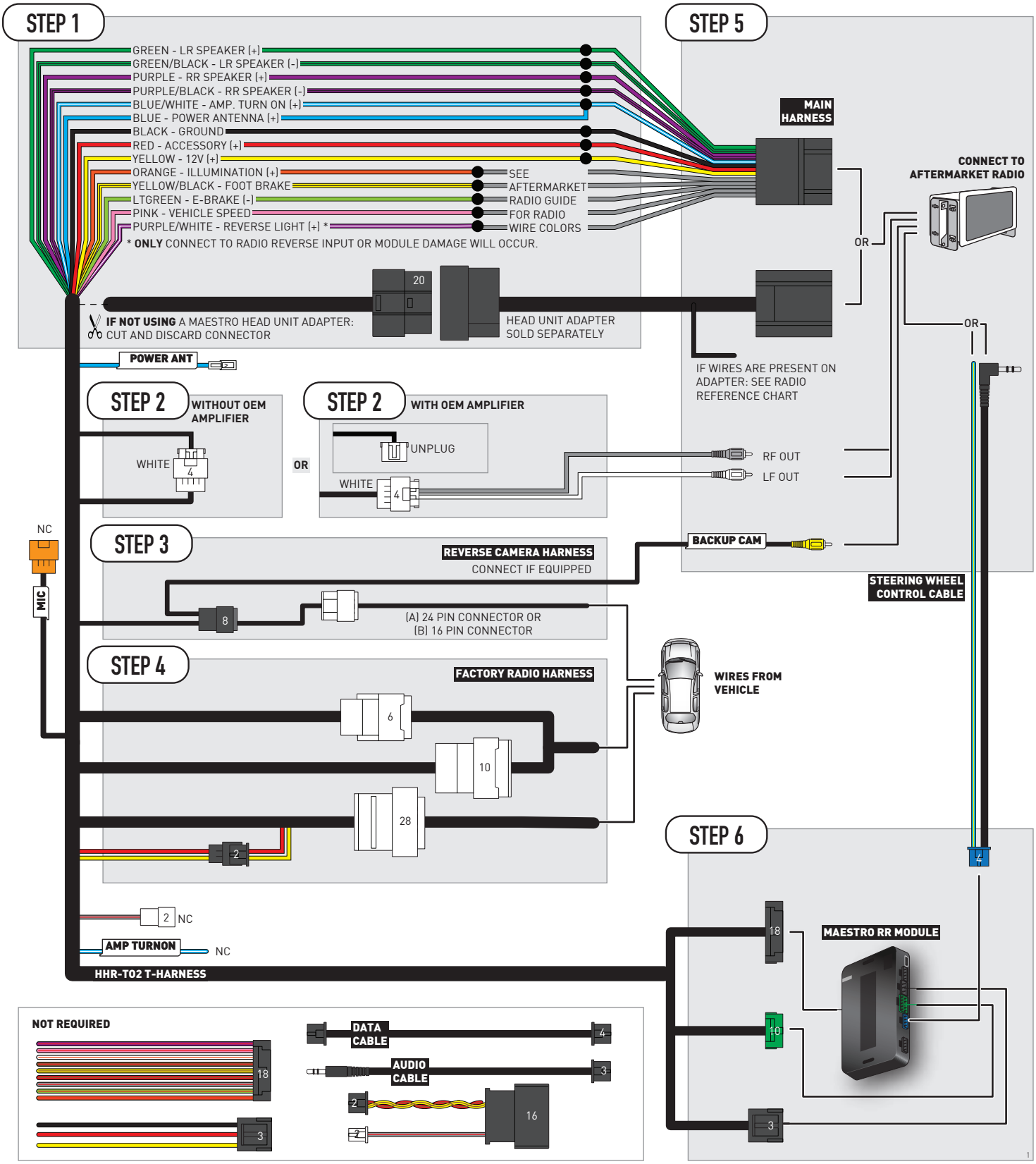
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

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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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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TECHNICAL ASSISTANCE

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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

2013-2018
TOYOTA RAV 4
WITH FACTORY 6.1 INCH SCREEN

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+





HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-AS

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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

Configuring the RR2's Programmable Outputs	Maestro RR2 Programmable Outputs Guide	
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STEP 4

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

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360 CAMERA CONTROLS (with vehicle in reverse)

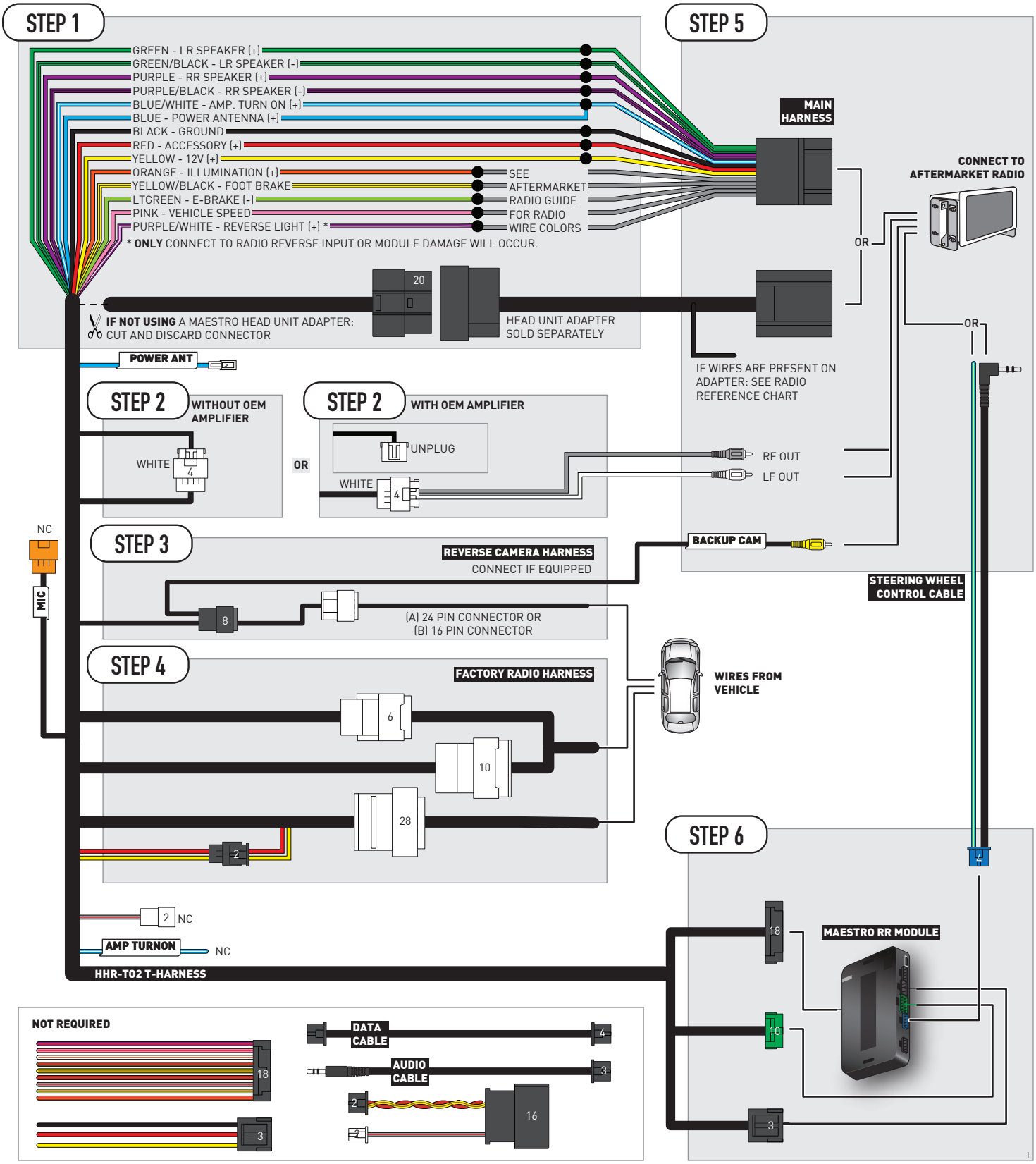
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E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

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Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.

  If using head unit adapter (sold separately), connect HRR-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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

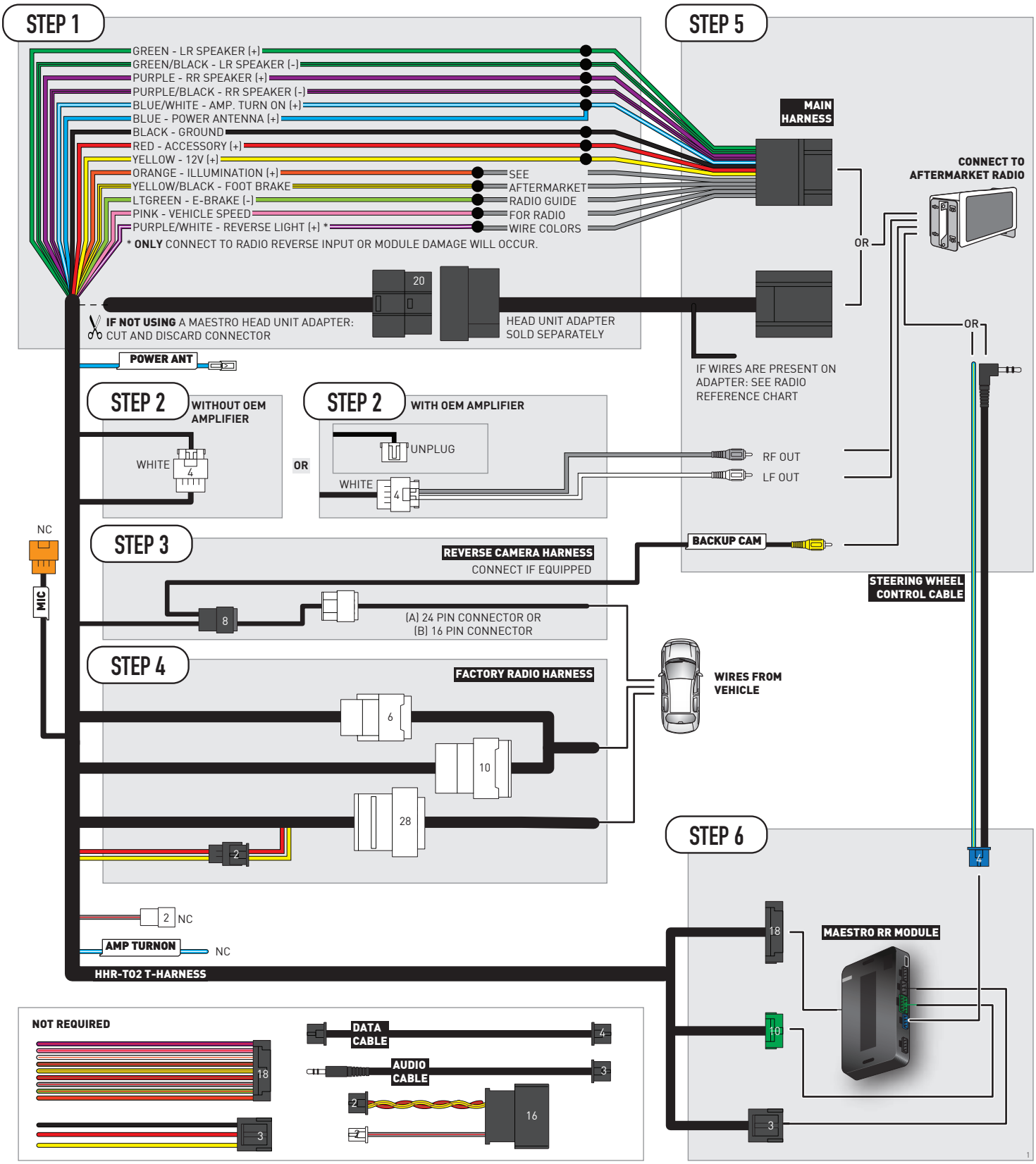
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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

2014-2017
TOYOTA SEQUOIA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-AS

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

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 OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Plug the backup camera RCA (if applicable).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

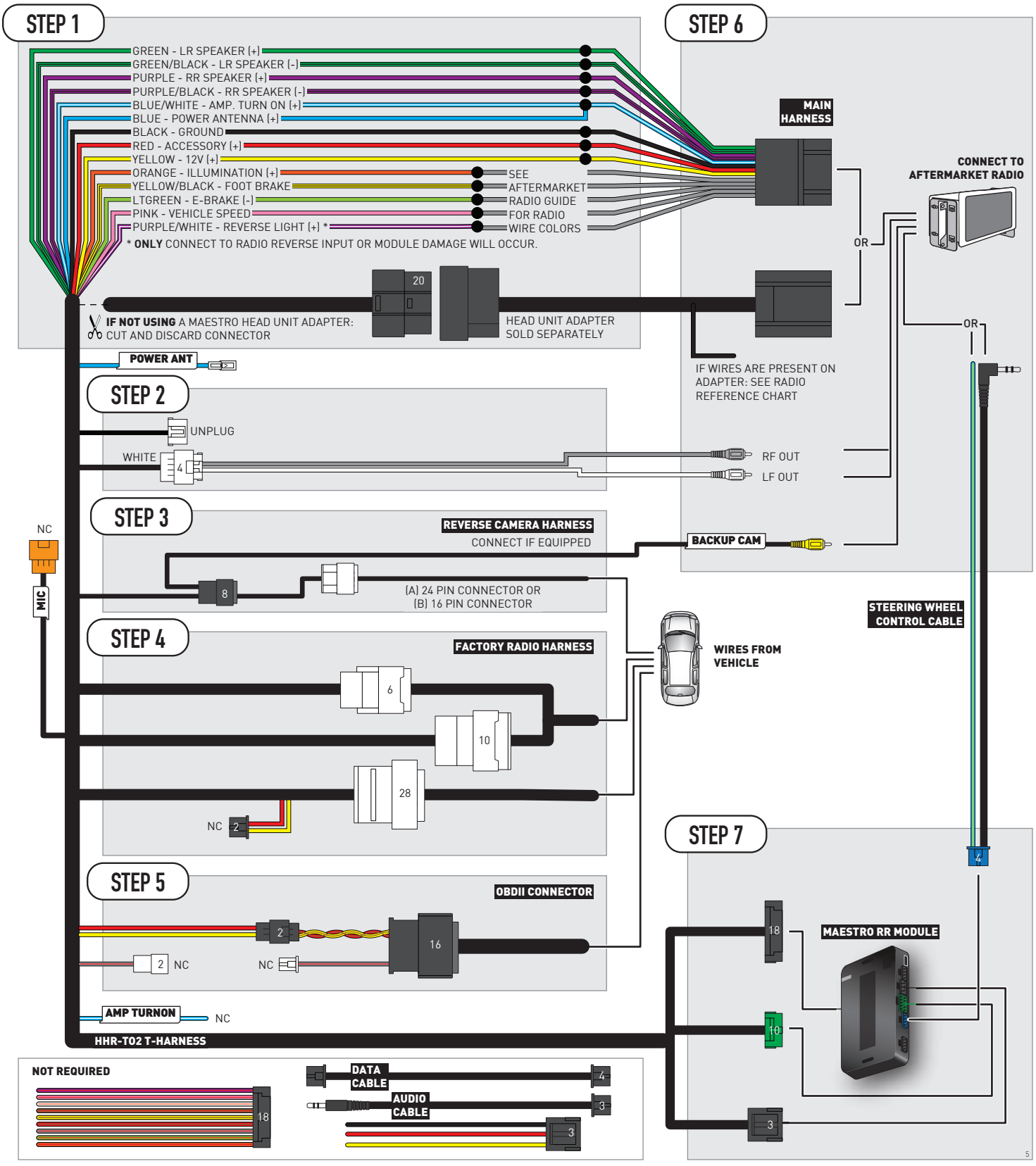
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

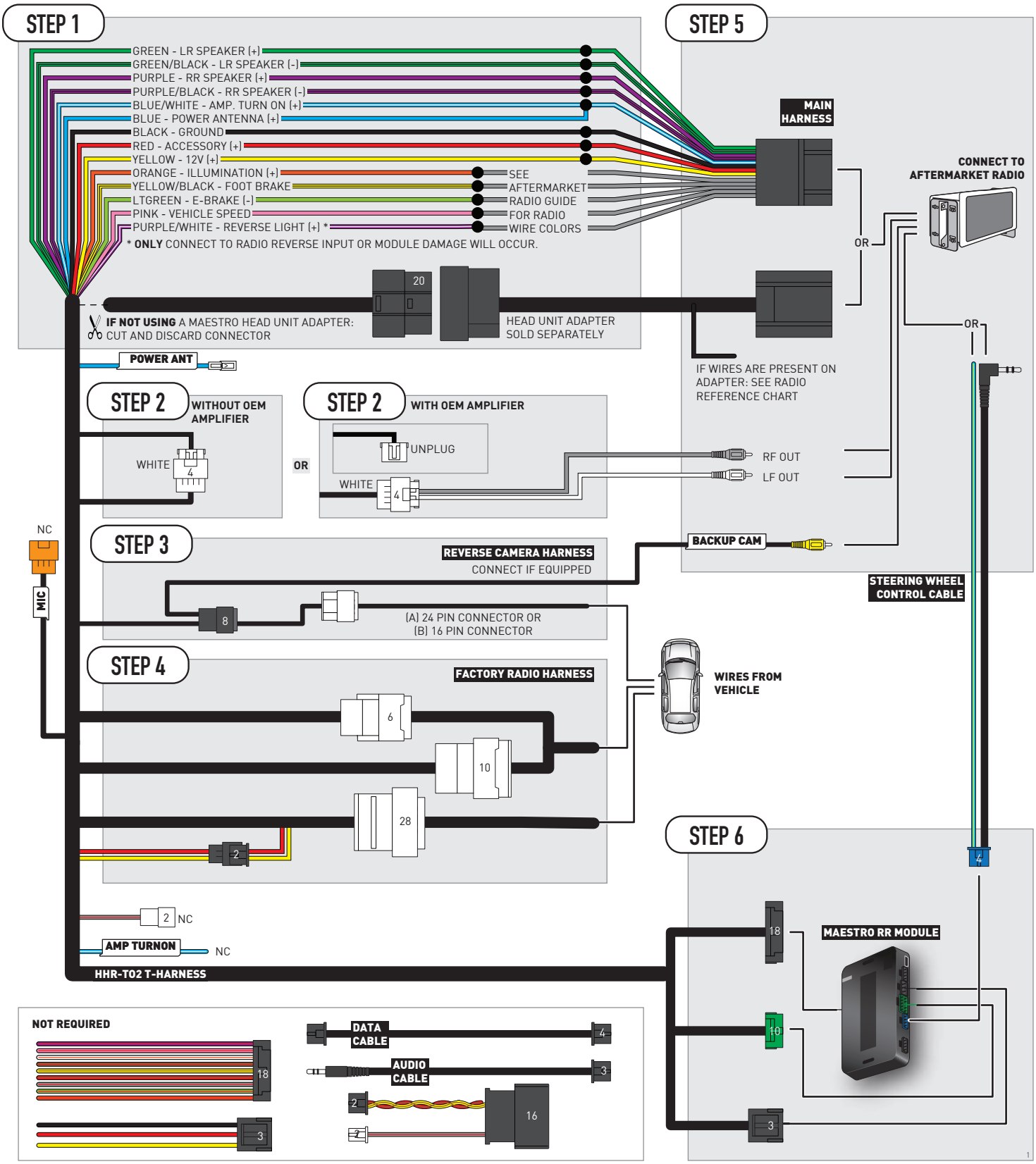
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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

2016-2019
TOYOTA TACOMA

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

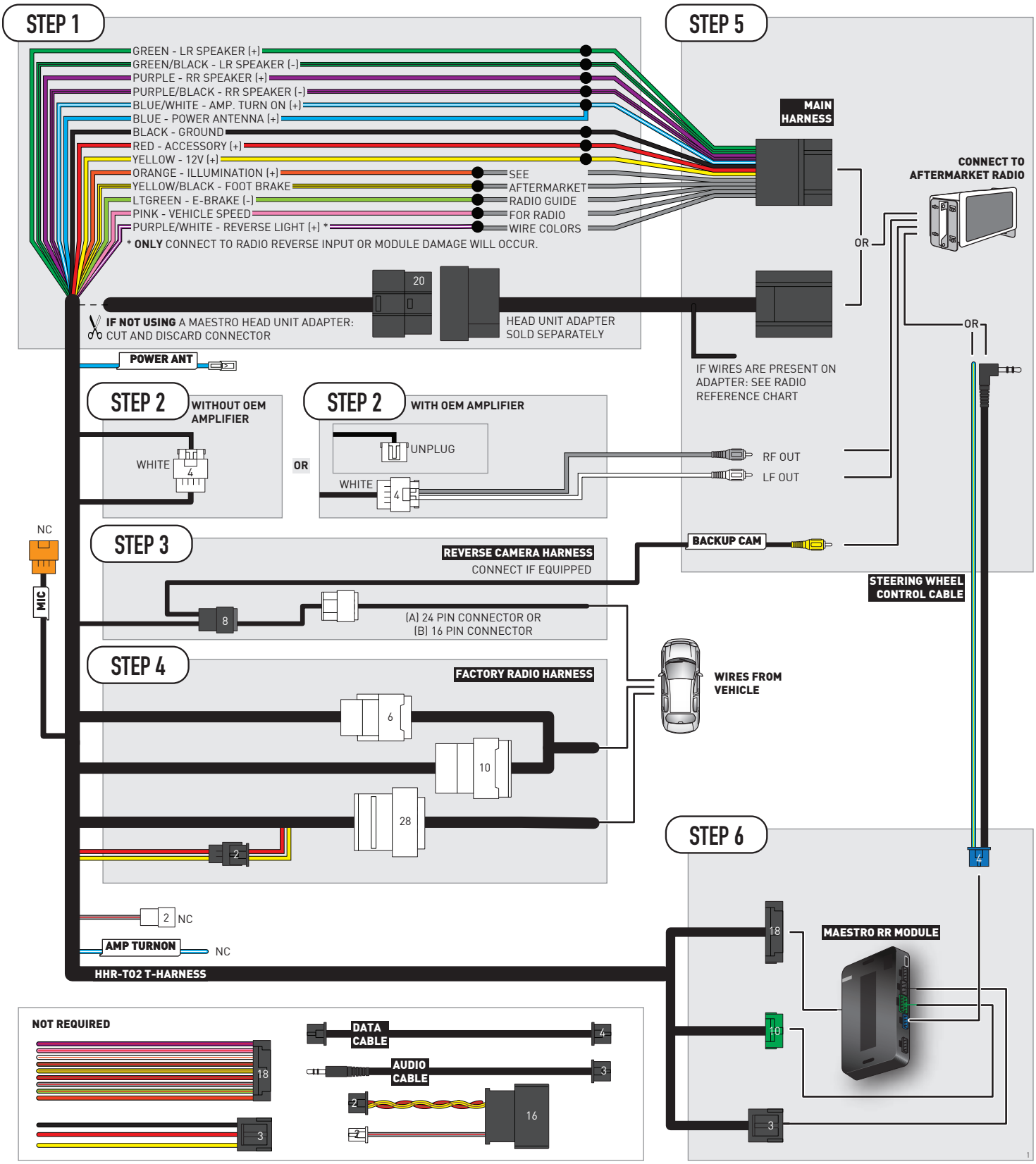
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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 OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Plug the backup camera RCA (if applicable).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 7

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

360 CAMERA CONTROLS (with vehicle in reverse)

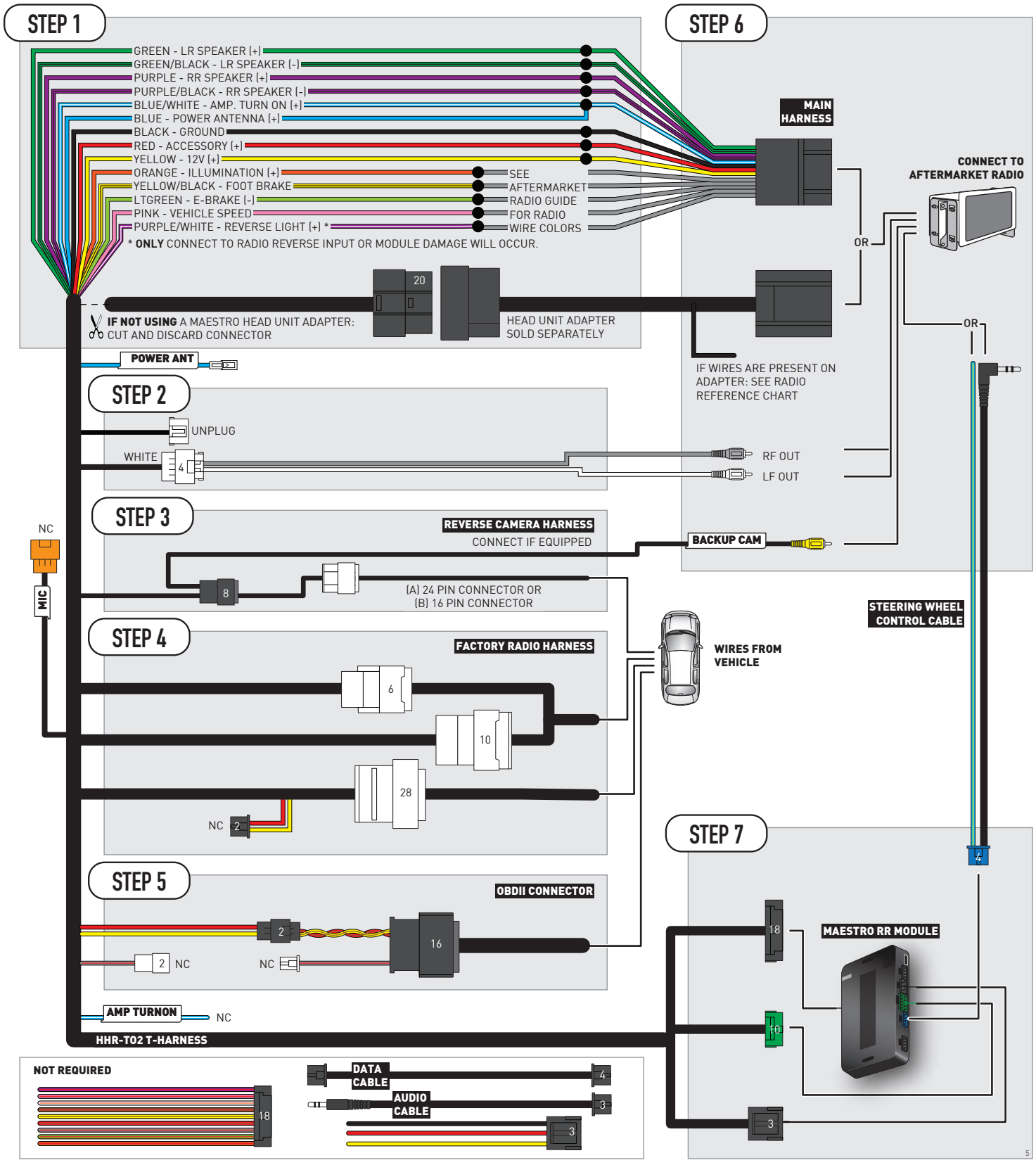
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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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

2014-2019
TOYOTA TUNDRA

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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

PROGRAMMED FIRMWARE: TO2-RR-AS

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

Configuring the RR2's Programmable Outputs	Maestro RR2 Programmable Outputs Guide	
Installation, product information, vehicle specific videos.	VIDEO HELP	
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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 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 harnesses into the aftermarket radio.
- Plug the backup camera RCA (if applicable).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

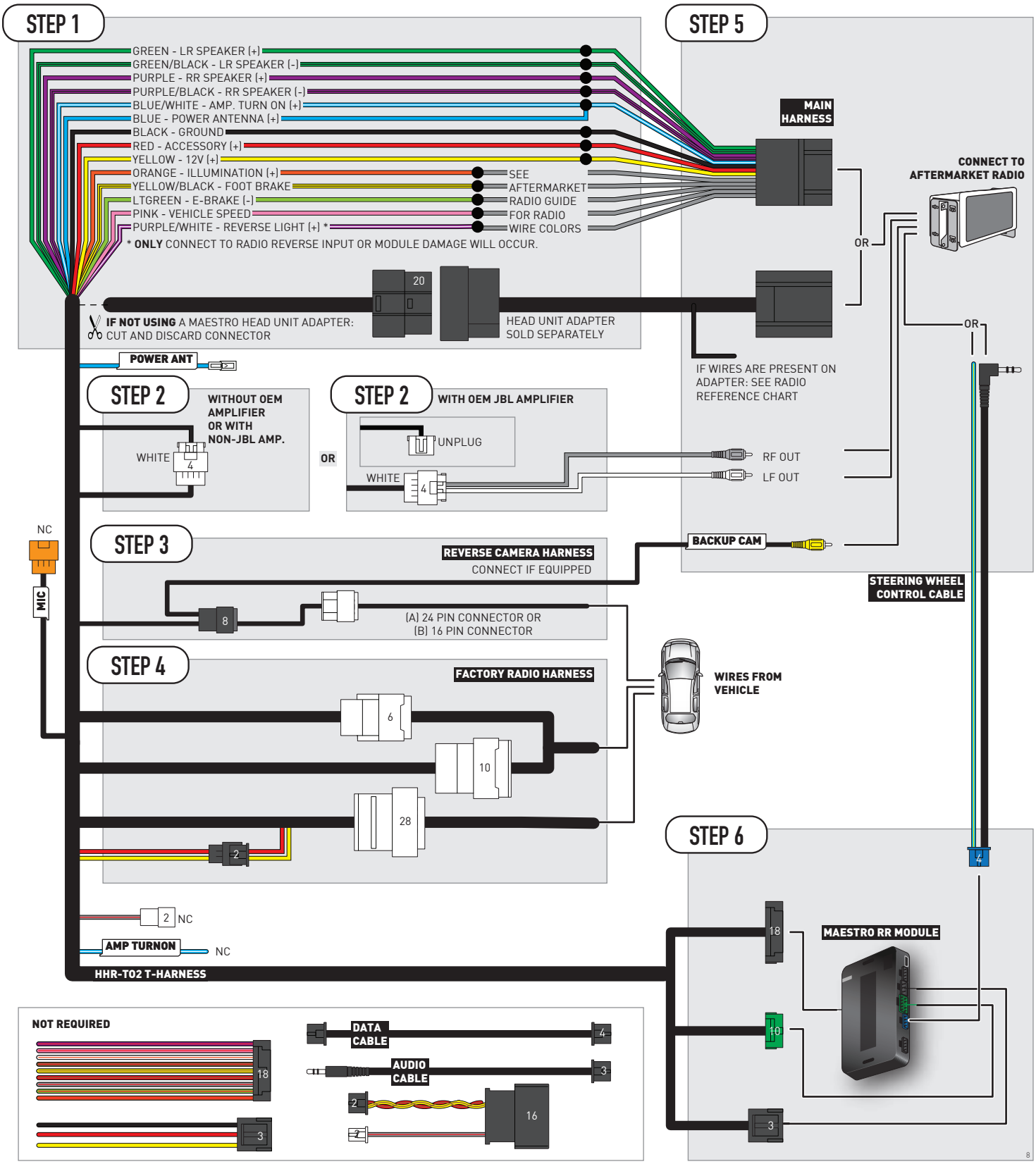
MODE - Change camera views

SEEK UP - Zoom in/out on overhead view

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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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

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, FACTORY AMPLIFIER, 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-AS

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

WELCOME

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

STEP 6

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

360 CAMERA CONTROLS (with vehicle in reverse)

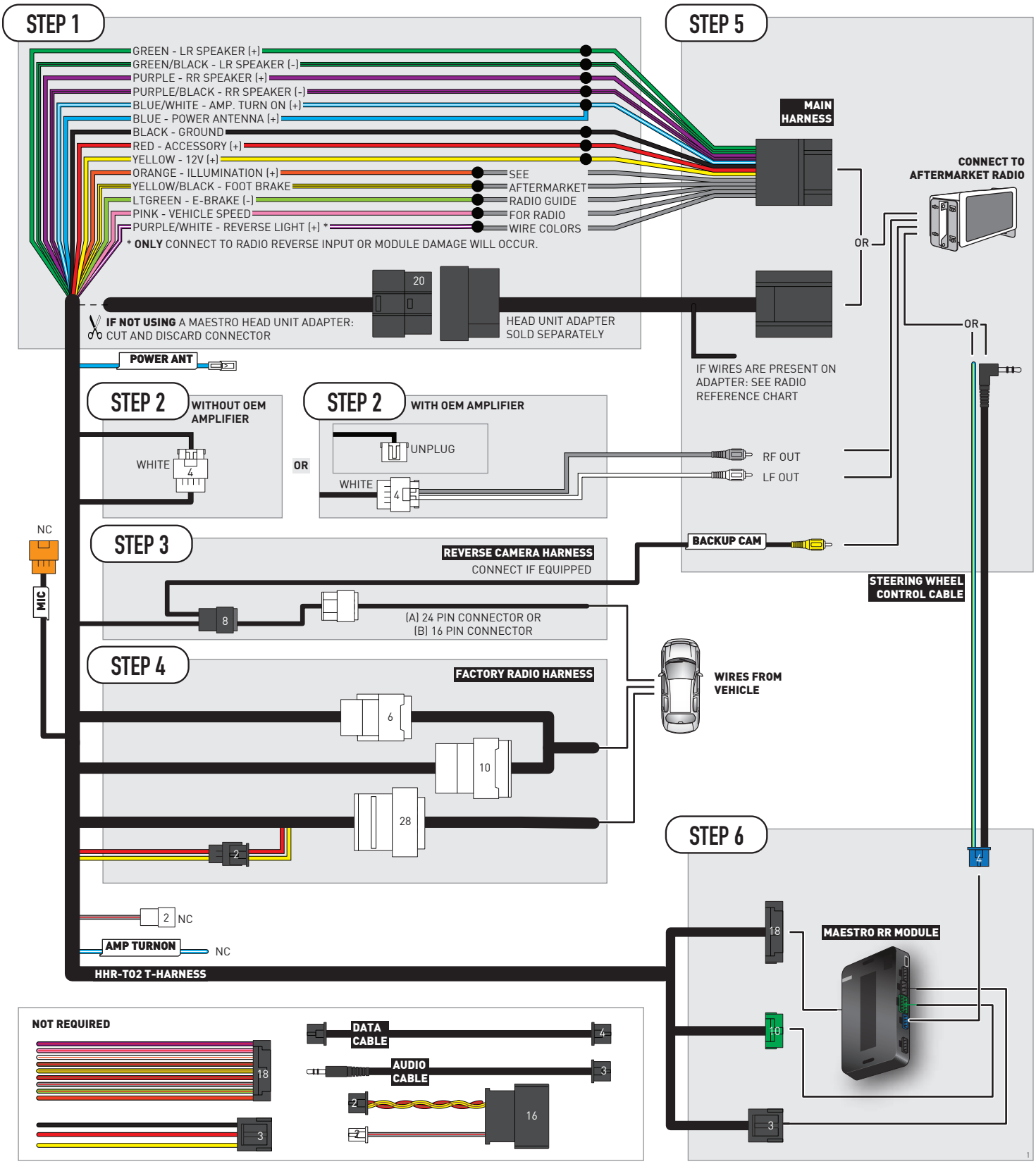
MODE - Change camera views

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

* Reverse light wire: Only connect to radio or module damage will occur.
Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

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	Blue/Yellow

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	Blue/Yellow

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.
●		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
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. 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.
There is no image from the backup camera, just a black screen.	Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e.Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).
Radio does not switch to reverse cam input when shifting to reverse.	Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm). **If the purple/white is connected**: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON. If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire. If 0v in any gear, test pin 2 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
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Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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, FACTORY AMPLIFIER, 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-AS

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

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	
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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

- 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).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control input of the radio (see Radio Wire Reference Chart for more details).

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360 CAMERA CONTROLS (with vehicle in reverse)

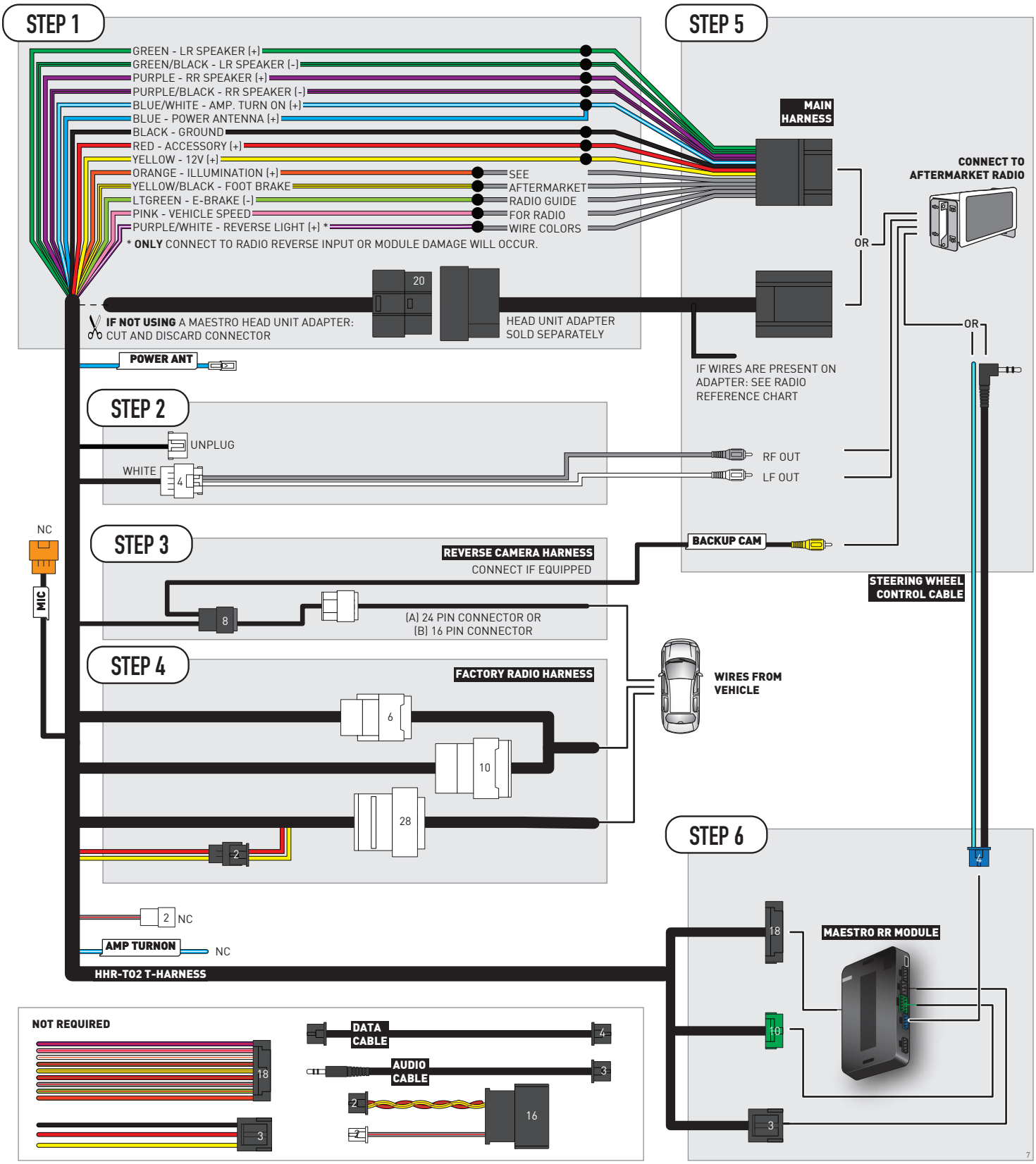
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7

WIRING DIAGRAM



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	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

*Manually learn the buttons to the radio in the radio steering wheel control menu.

Head unit adapter wiring (optional accessory, sold separately)

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VSS (vehicle speed sensor)	(DATA)	Green/White	Green/White

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CAM	(+)	Green/Red	Refer to camera/ radio manual
CAM	(-)	Green/White	Refer to camera/ radio manual
Steering Wheel Controls	(DATA)	Blue/Yellow	Blue/Yellow

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	Blue/Yellow

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