SELECT VEHICLE
PRINT PAGES NEEDED

iDatalink maestro RR

HOW TO USE THIS INSTALL GUIDE

1. Open the Bookmarks menu and find your vehicle OR scroll down until you find the install guide for your vehicle.
2. Print only the pages for your vehicle using the advanced options in the Print menu.
3. Install your Maestro RR according to the guide for your vehicle.

WARNING

Pressing the printer icon or "quick printing" this document will print all of the guides in this compilation.

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

INSTALL GUIDE

2016
SCION IM

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

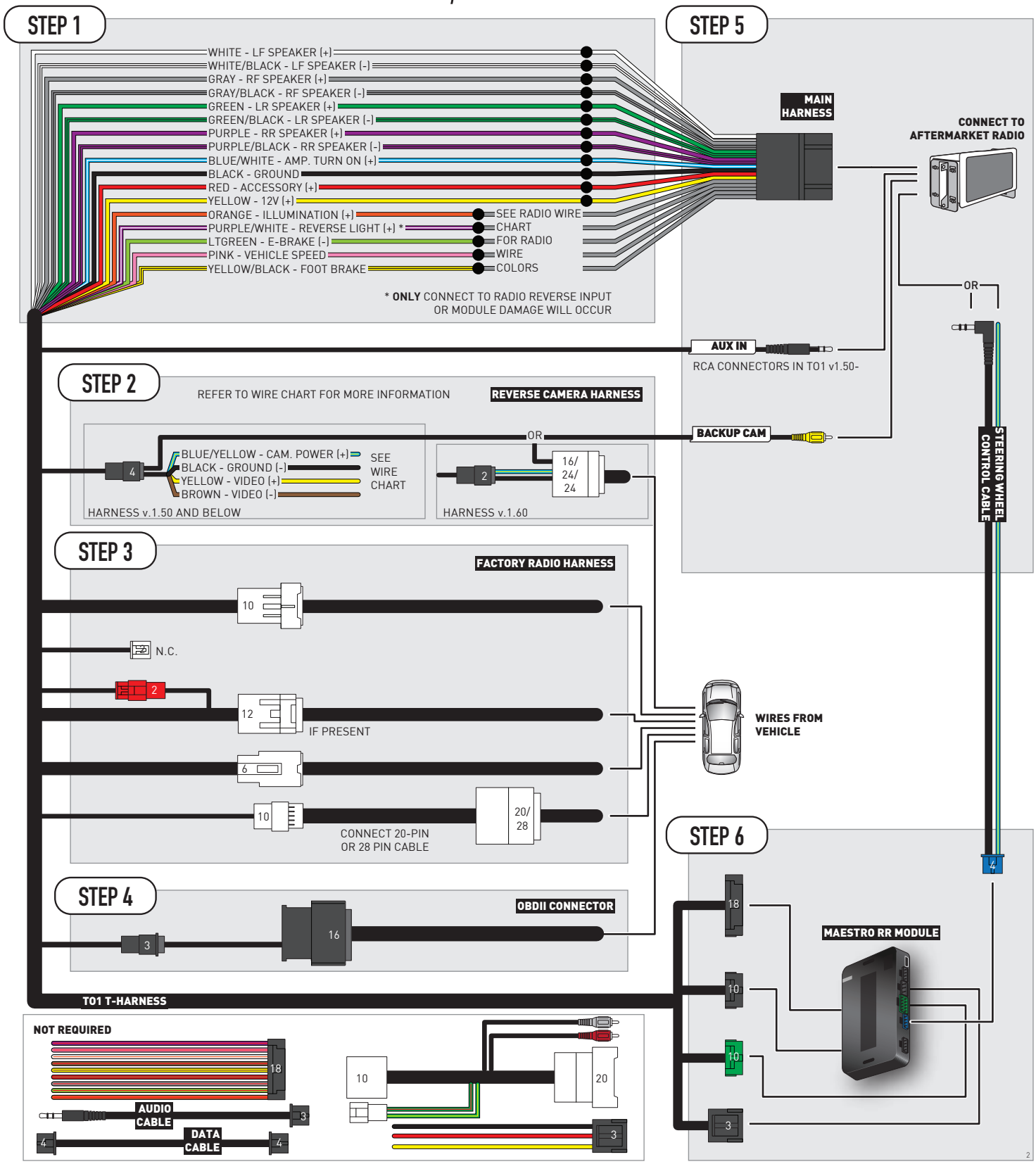
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

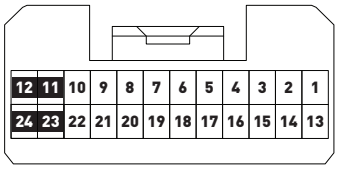
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2011-2016
SCION iQ

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

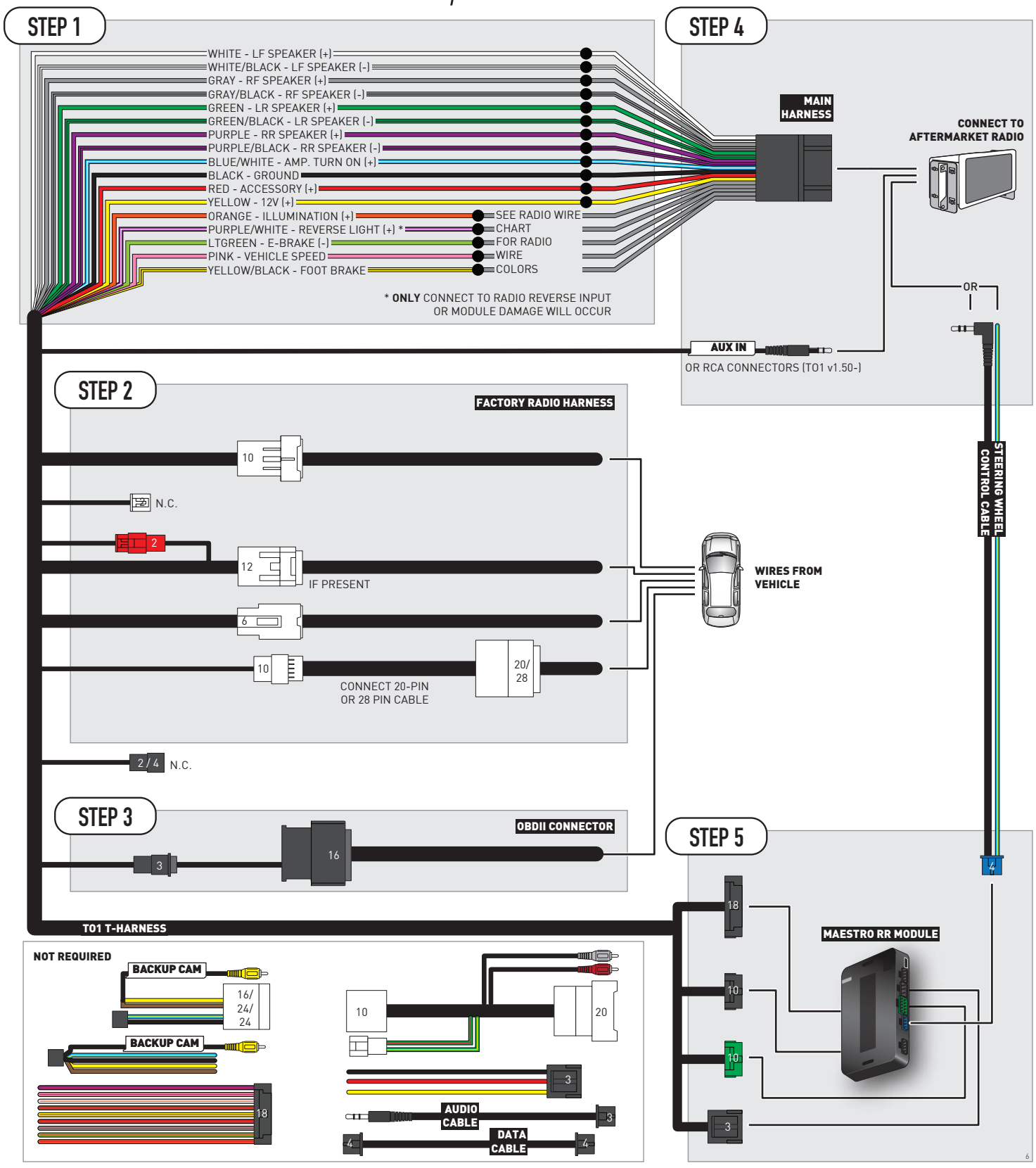
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

6

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2007-2016
SCION TC

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

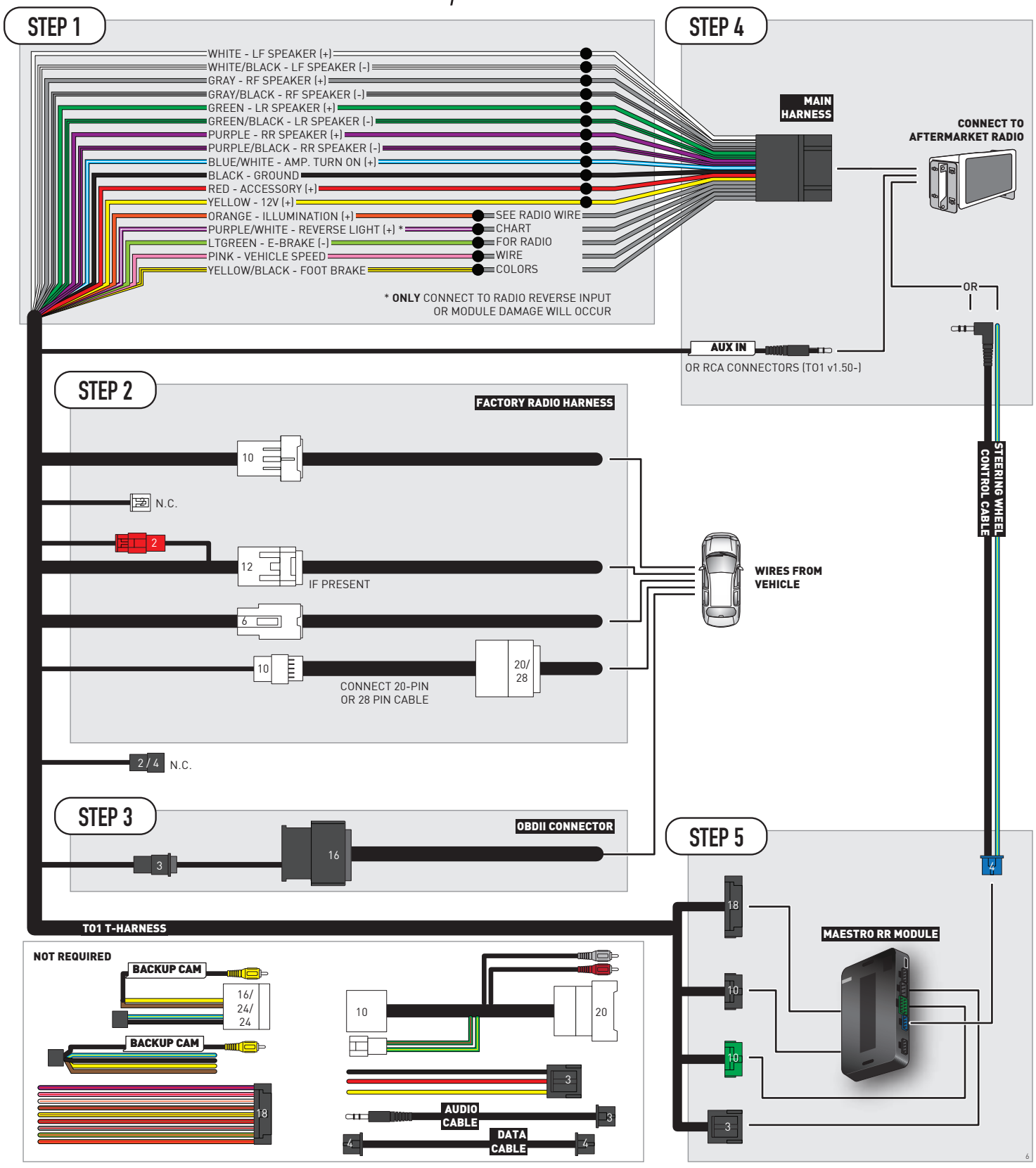
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2008-2016
SCION XB

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

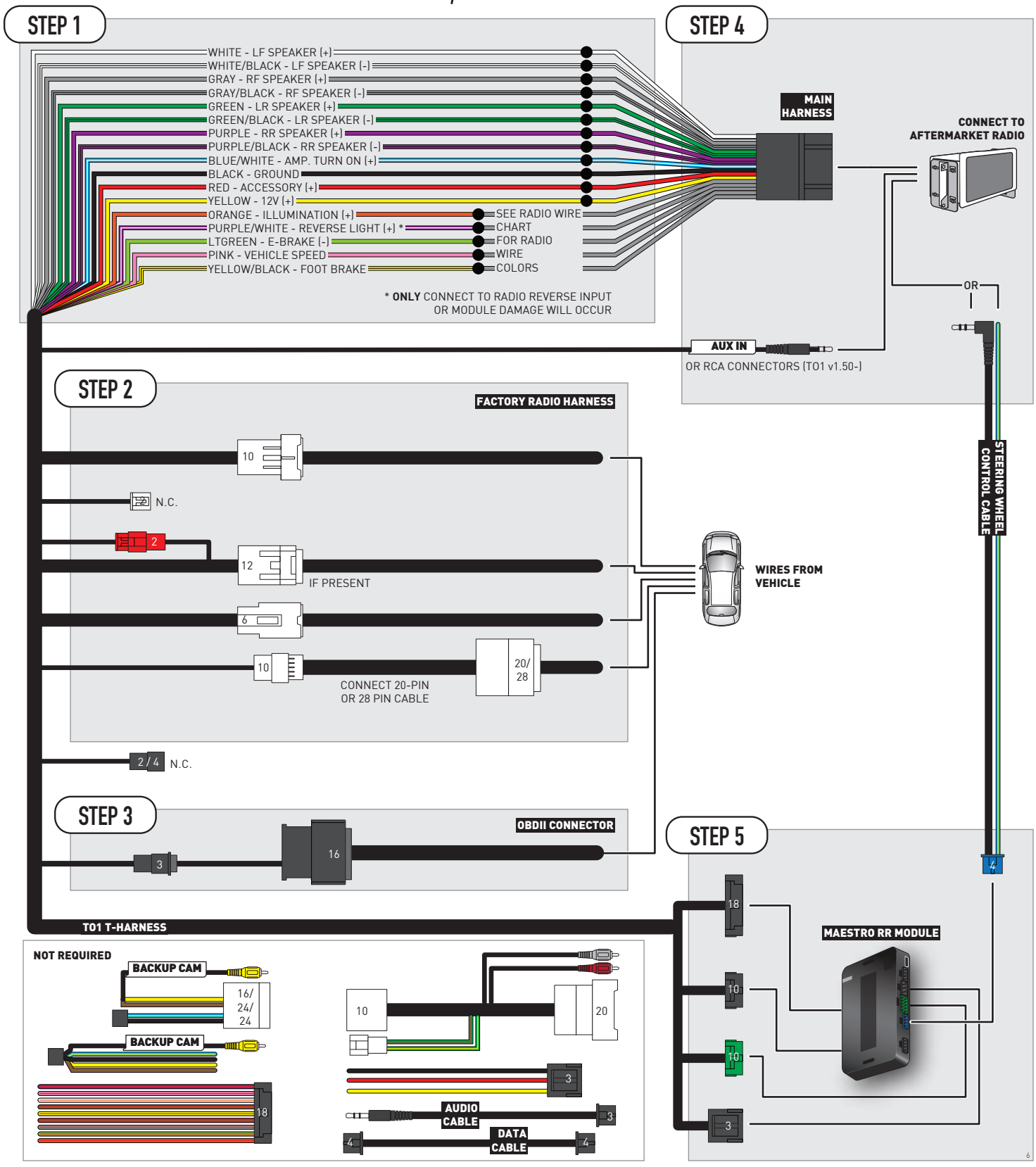
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- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the steering control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

STEP 5

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

6

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2008-2014
SCION XD

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

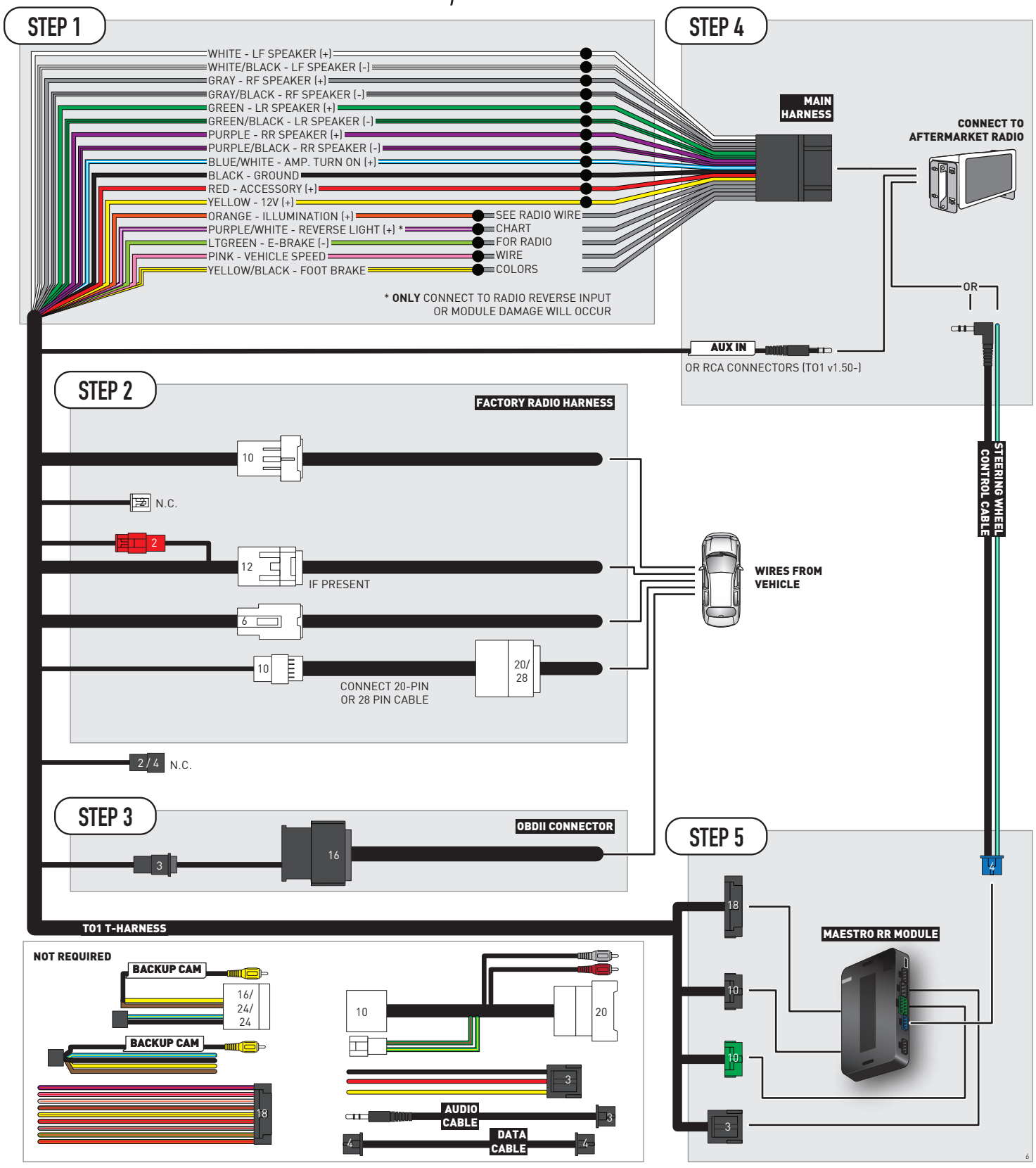
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2005-2011
TOYOTA 4 RUNNER
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

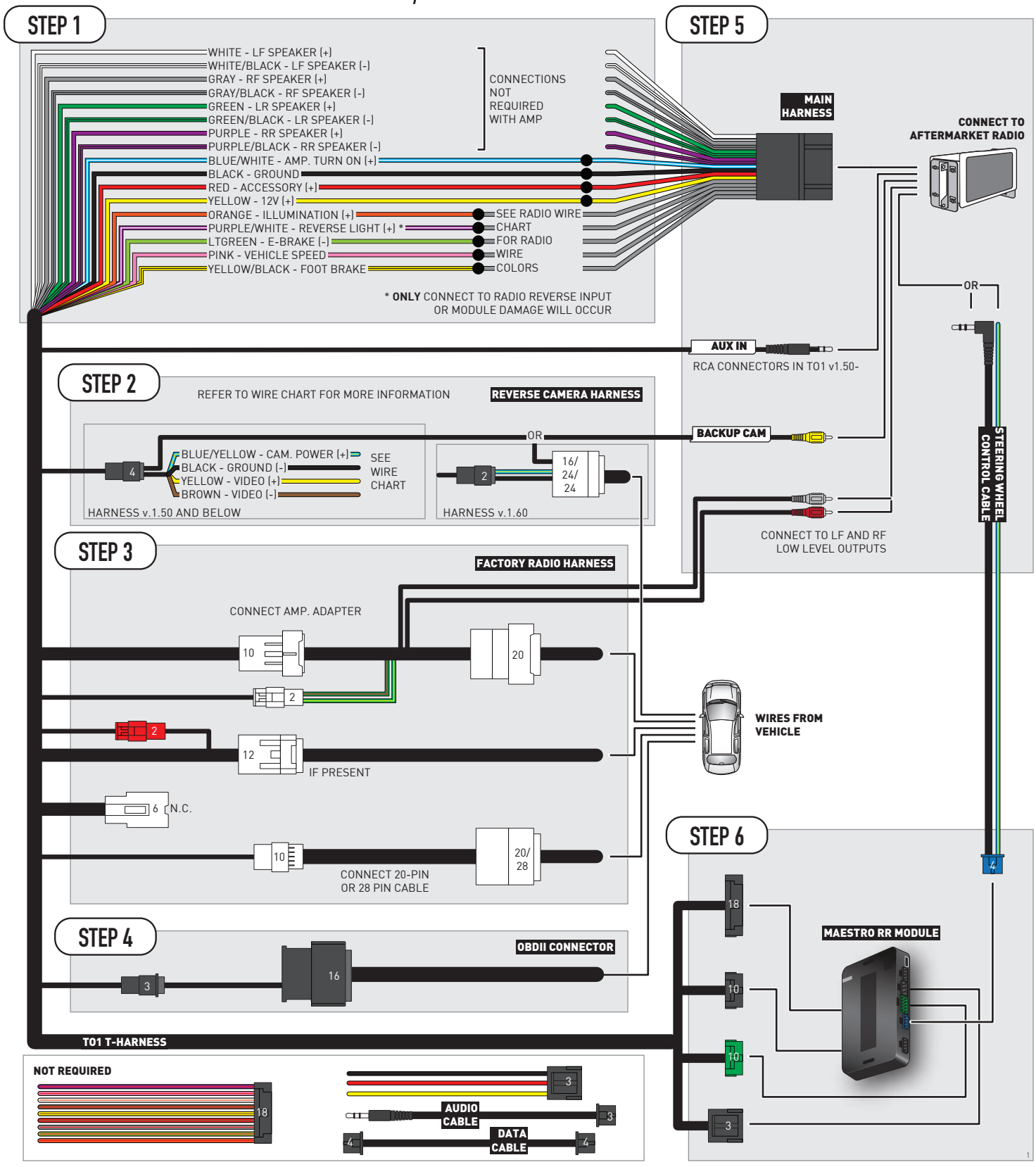
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

VEHICLE WIRE REFERENCE CHART

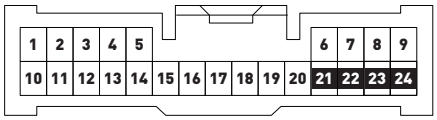
2006-2009

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

2010-2011

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	White	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Black	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2013
TOYOTA 4 RUNNER
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

Automotive Data Solutions Inc. © 2023

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

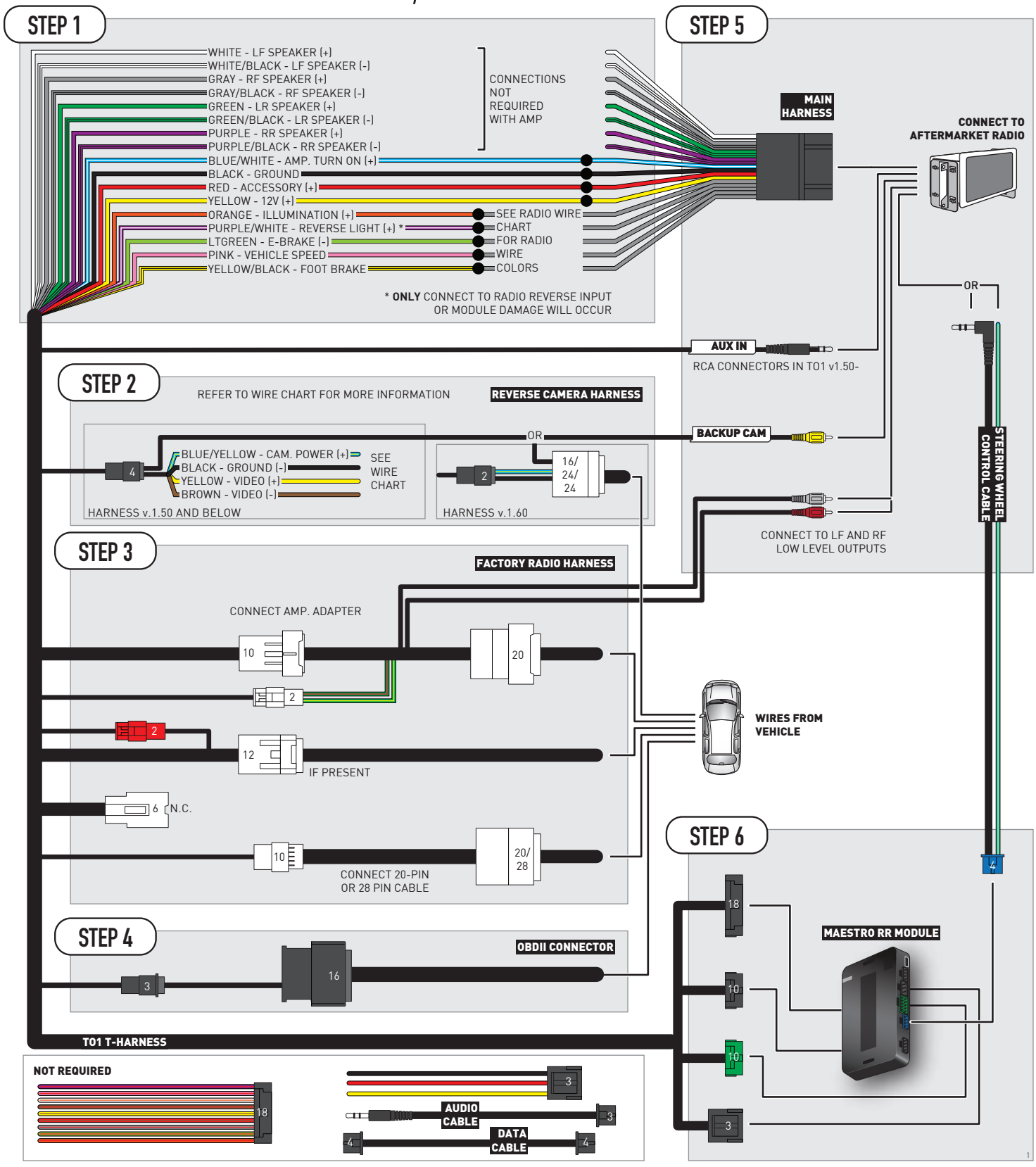
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

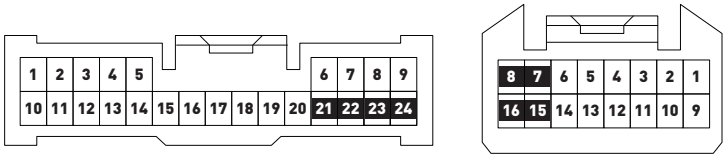
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	White	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Black	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Red	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2005-2011
TOYOTA 4 RUNNER
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

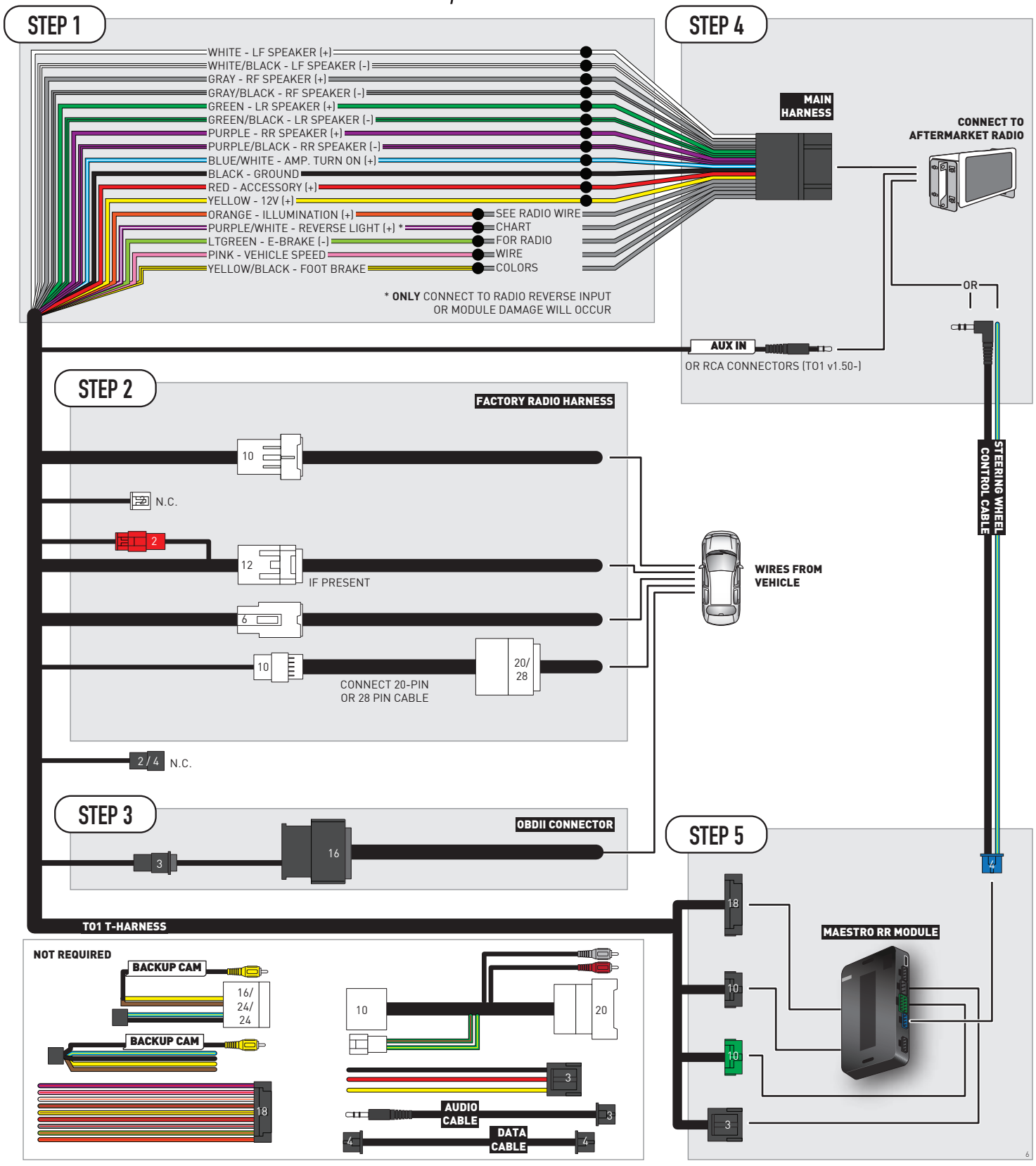
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2013
TOYOTA 4 RUNNER
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

Automotive Data Solutions Inc. © 2023

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

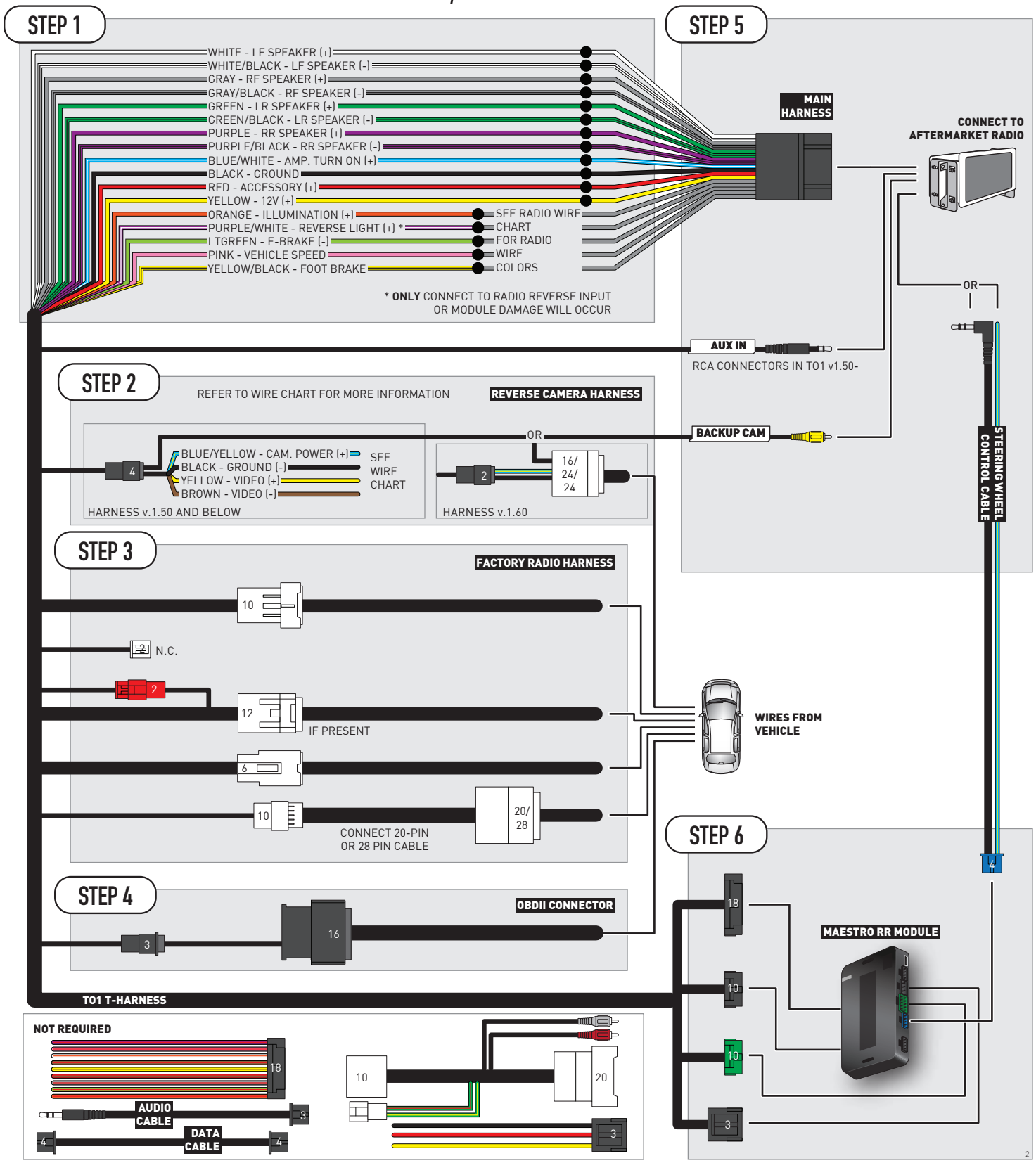
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

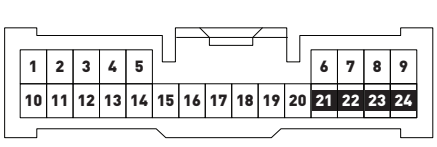
VEHICLE WIRE REFERENCE CHART

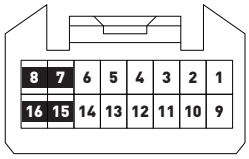
Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	White	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Black	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Red	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)





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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2011-2012
TOYOTA AVALON
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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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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

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

Automotive Data Solutions Inc. © 2023

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

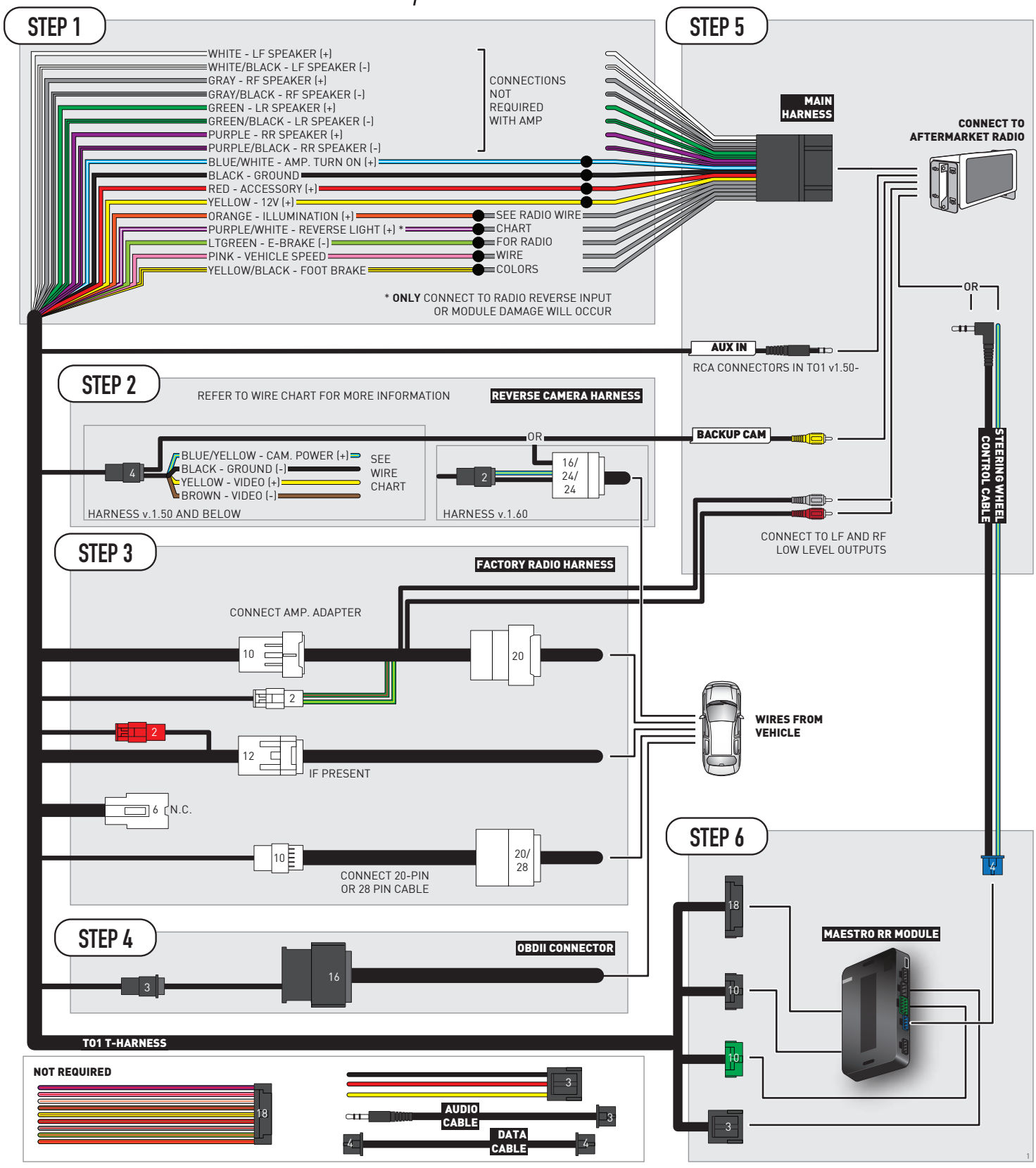
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

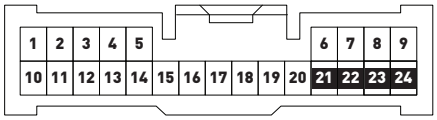
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Green	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Blue	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Pink	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2013-2014
TOYOTA AVALON
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

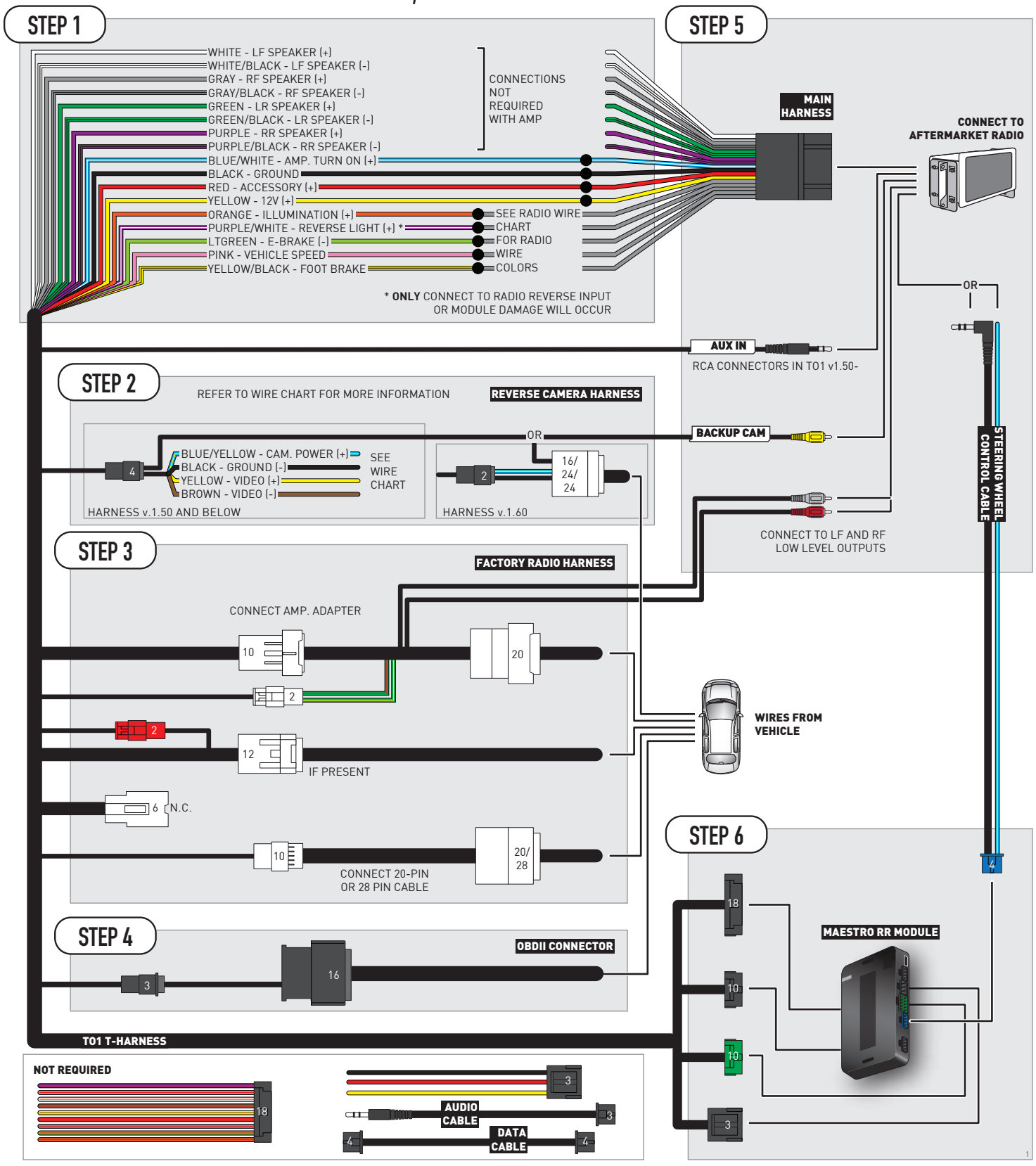
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

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WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

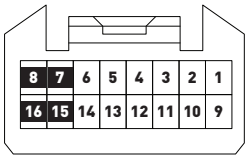
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Red	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2011-2012
TOYOTA AVALON
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

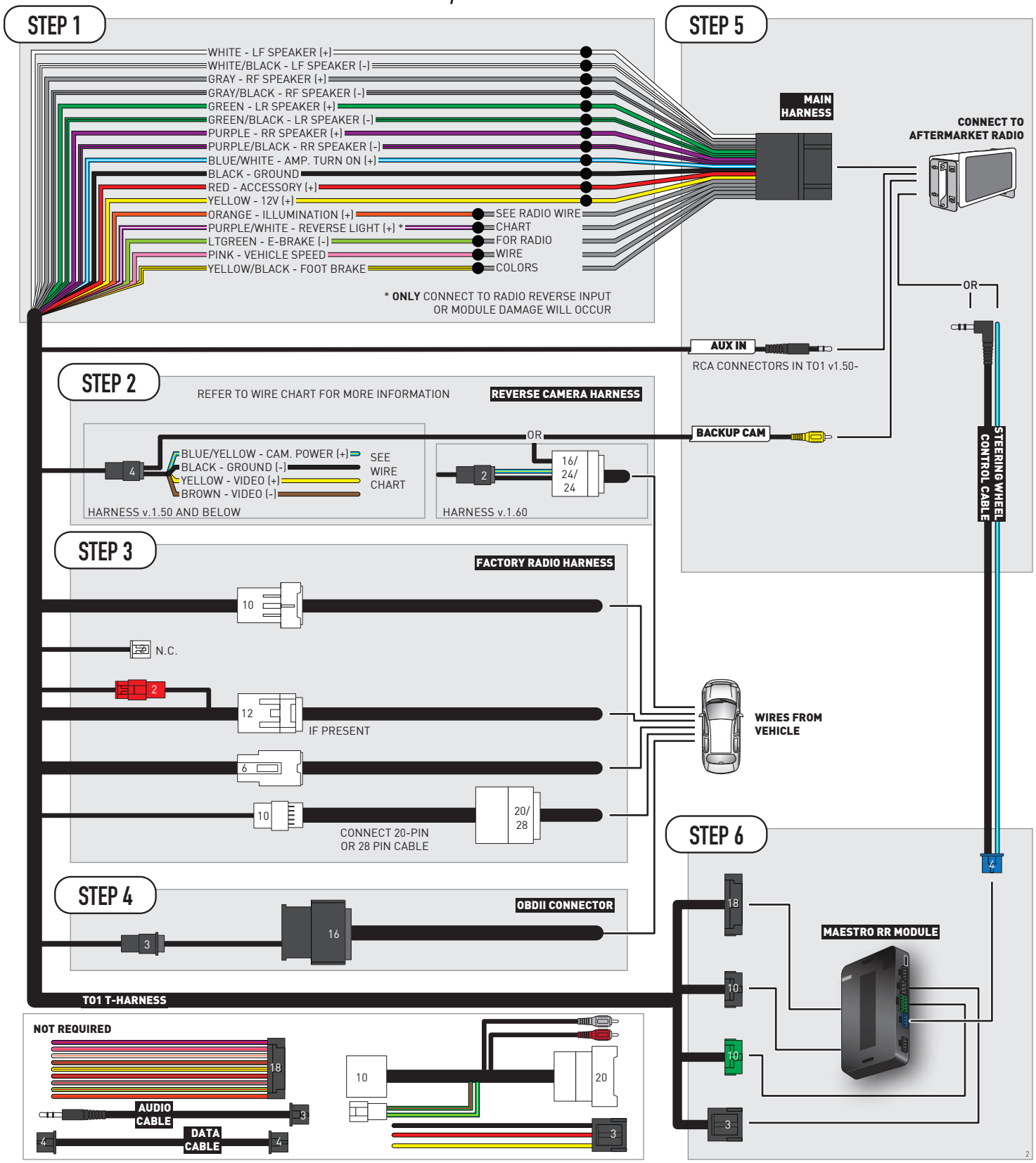
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

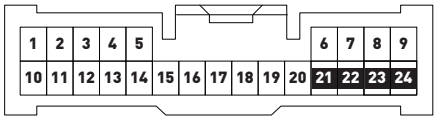
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Green	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Blue	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Pink	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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INSTALL GUIDE

2013-2014
TOYOTA AVALON
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

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PROGRAMMED FIRMWARE: TO1-RR-AS

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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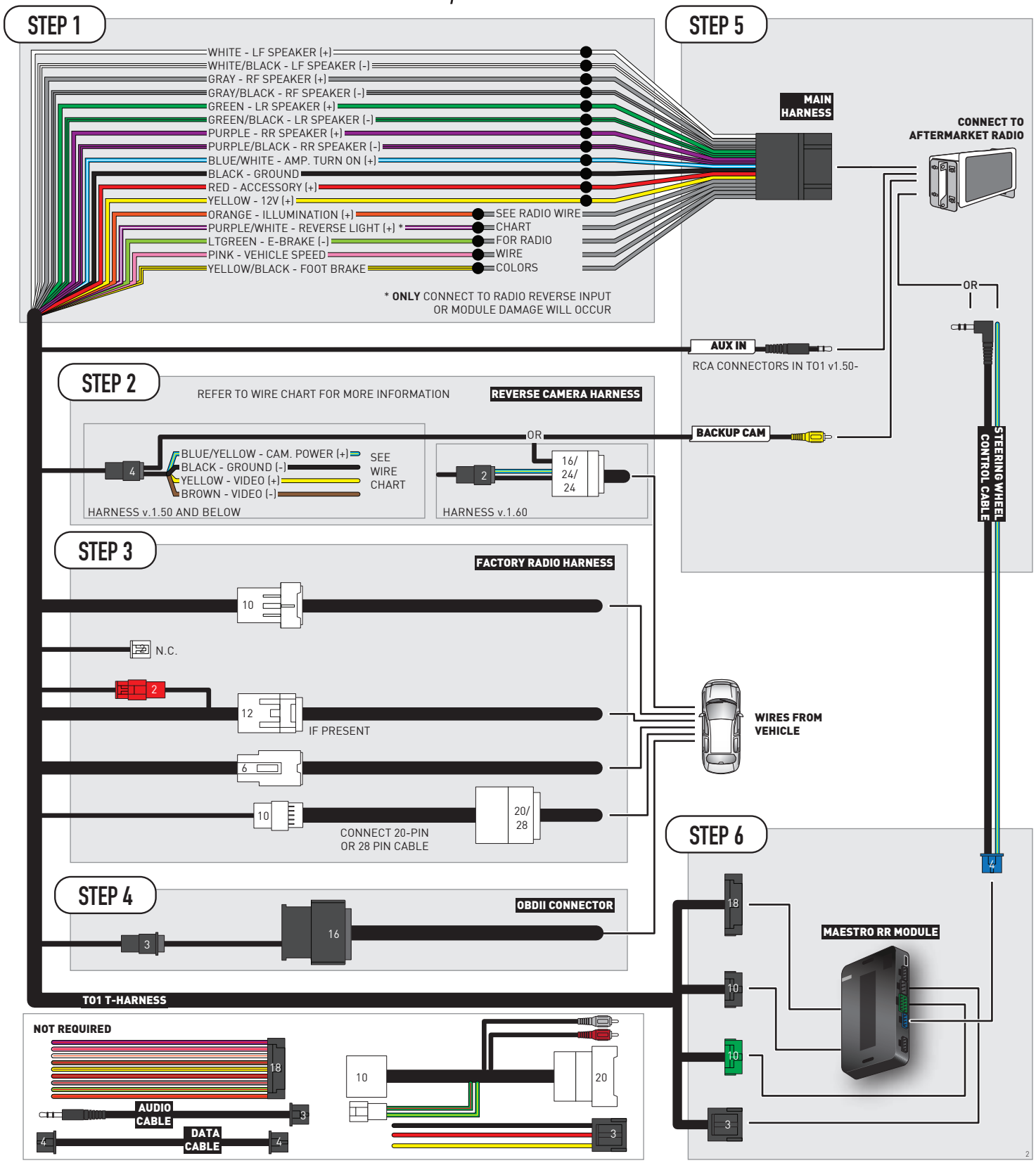
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STEP 6

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

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
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Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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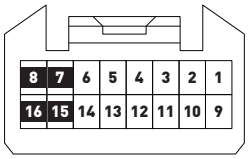
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Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input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

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

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Red	(-)	Reverse camera harness

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2018
TOYOTA C-HR

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

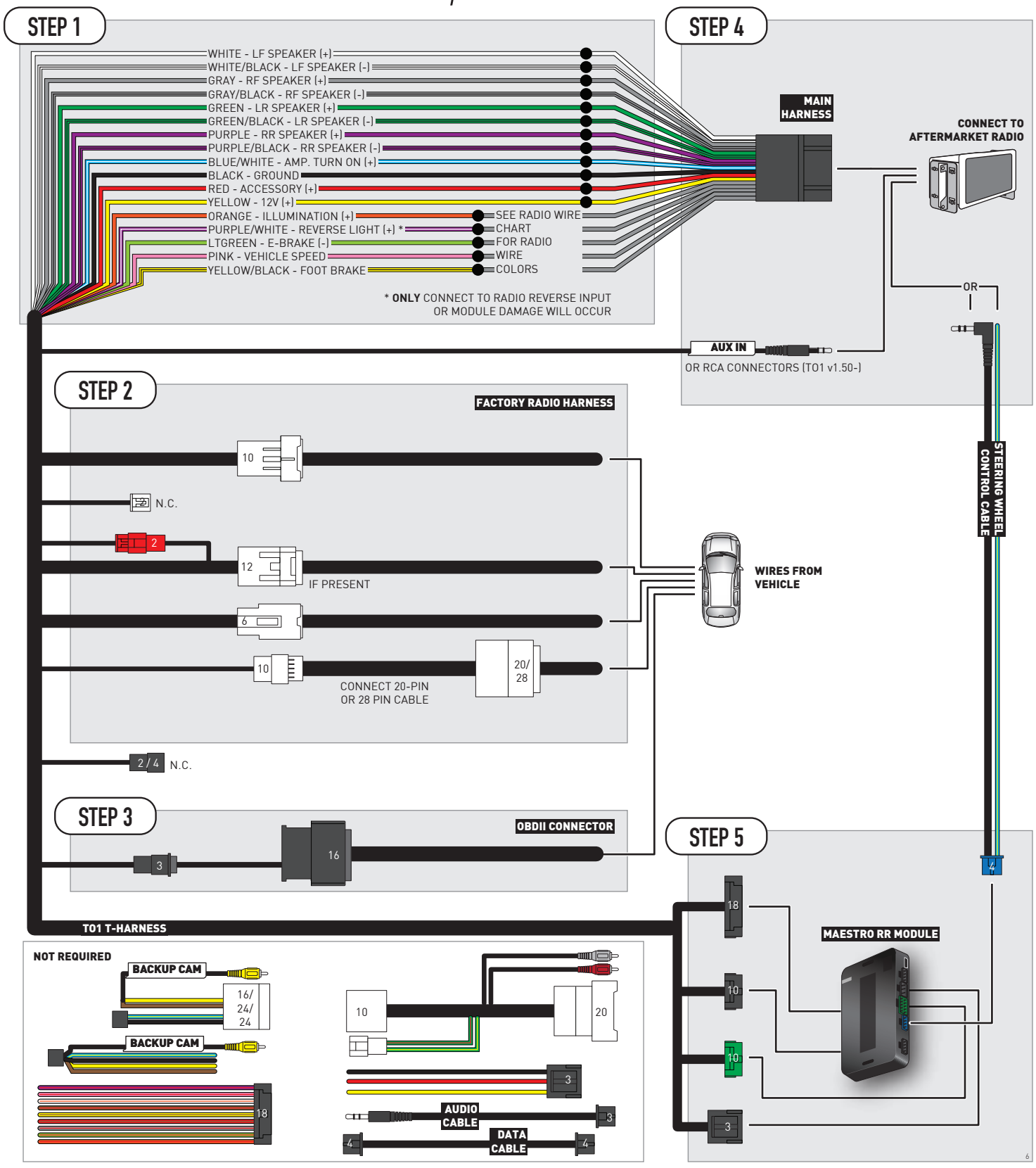
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2007-2011
TOYOTA CAMRY
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

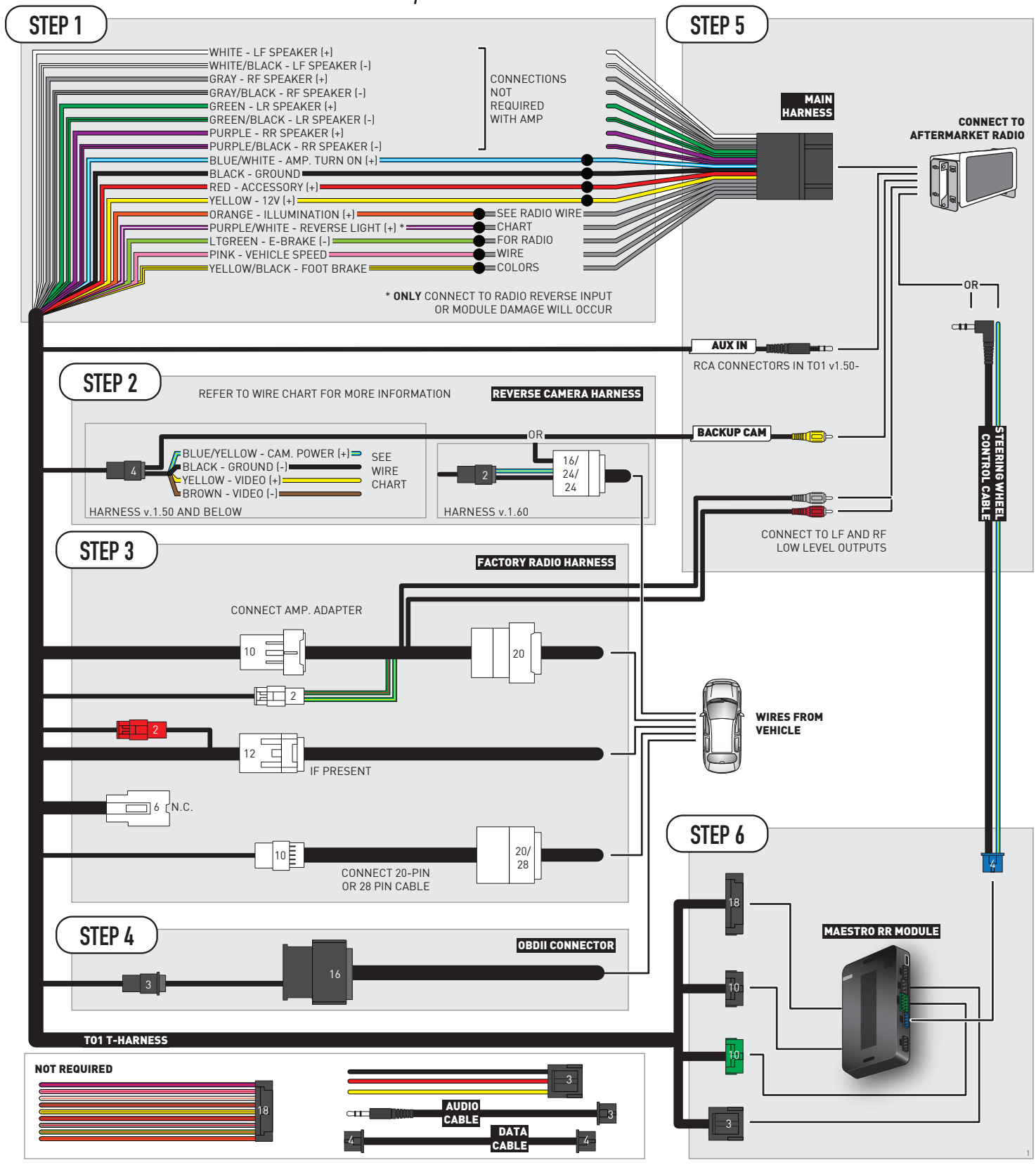
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

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WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

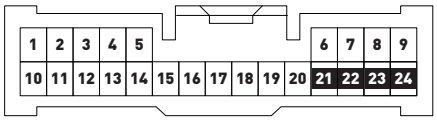
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2014
TOYOTA CAMRY
WITHOUT FACTORY SCREEN

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

Automotive Data Solutions Inc. © 2023

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

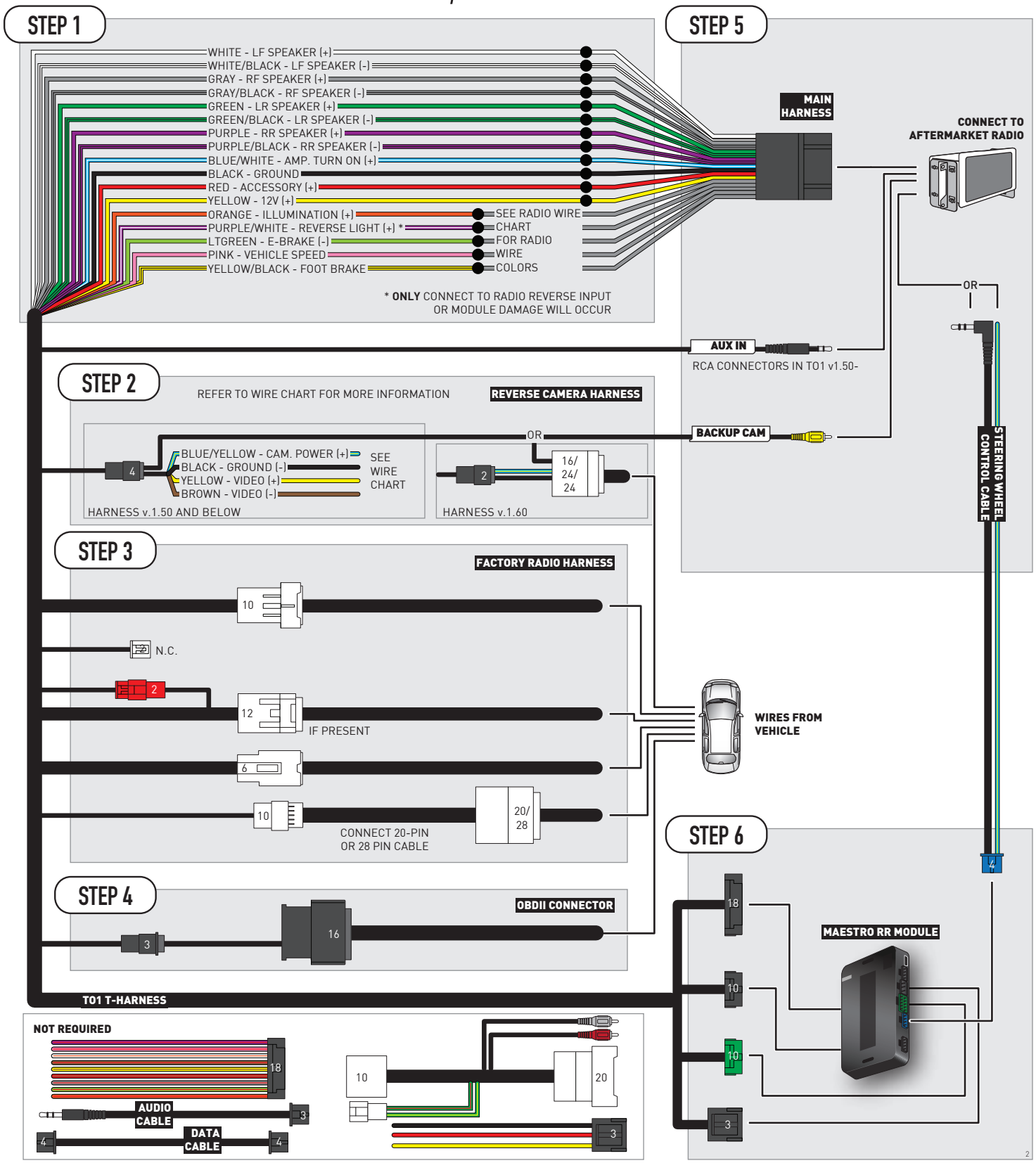
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- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow 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.

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

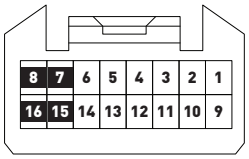
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Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input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

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

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	White	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Red	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2007-2011
TOYOTA CAMRY
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

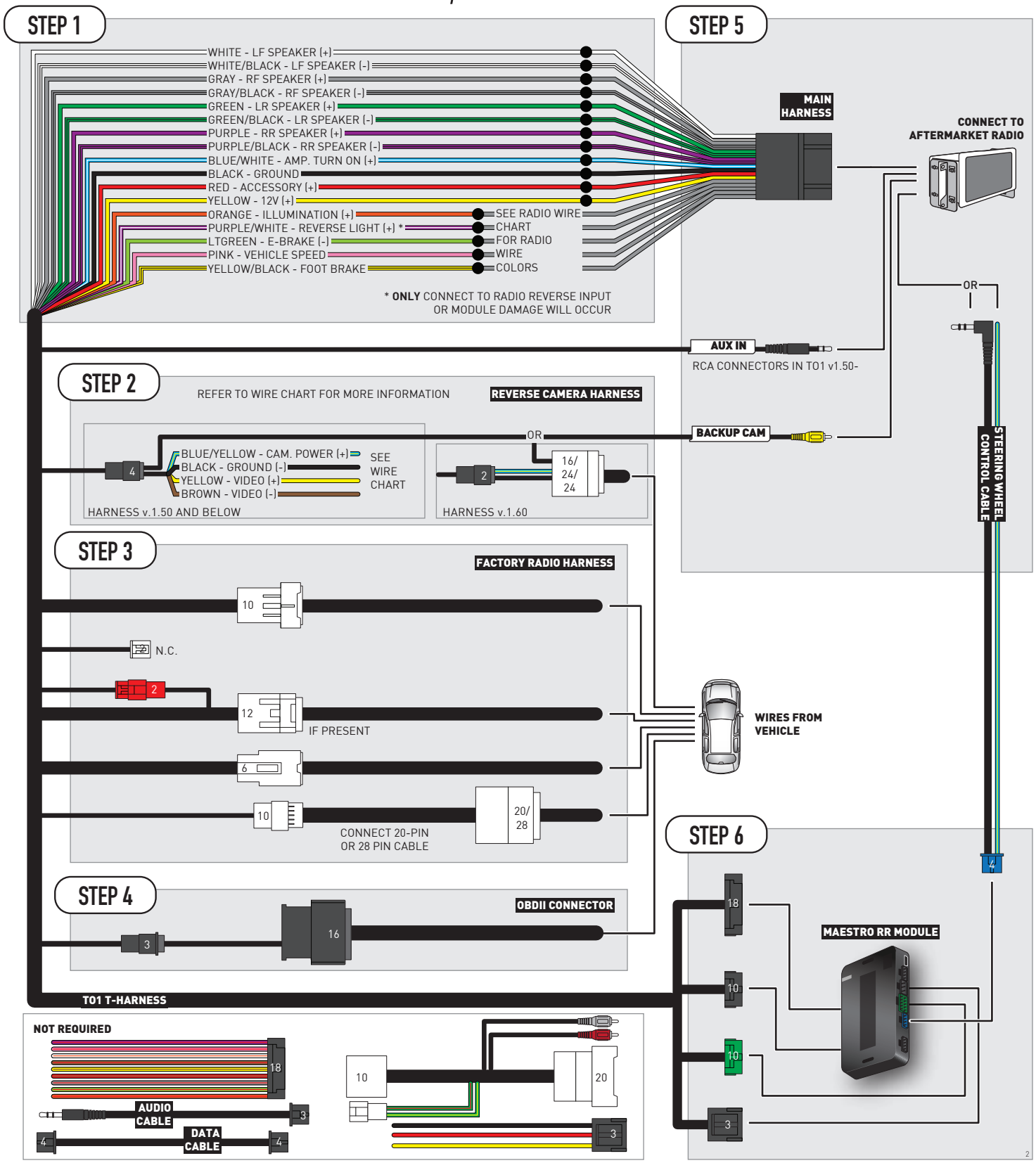
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

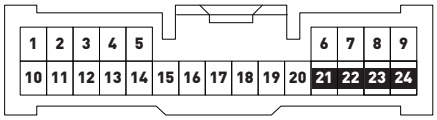
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2009-2013
TOYOTA COROLLA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

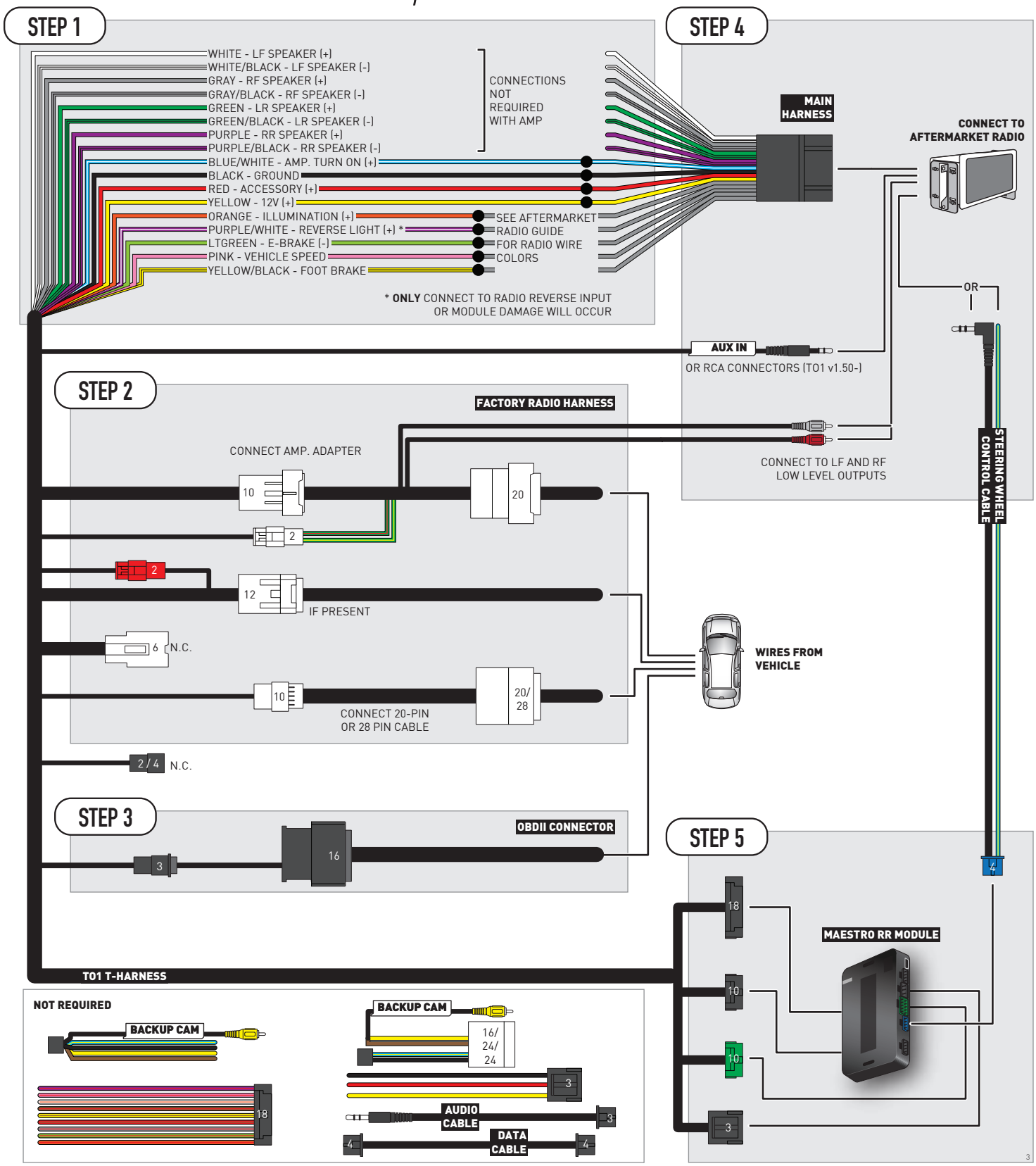
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Connect the steering wheel control cable to the aftermarket radio. 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 5

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

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WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2014-2015
TOYOTA COROLLA
WITHOUT FACTORY SCREEN

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

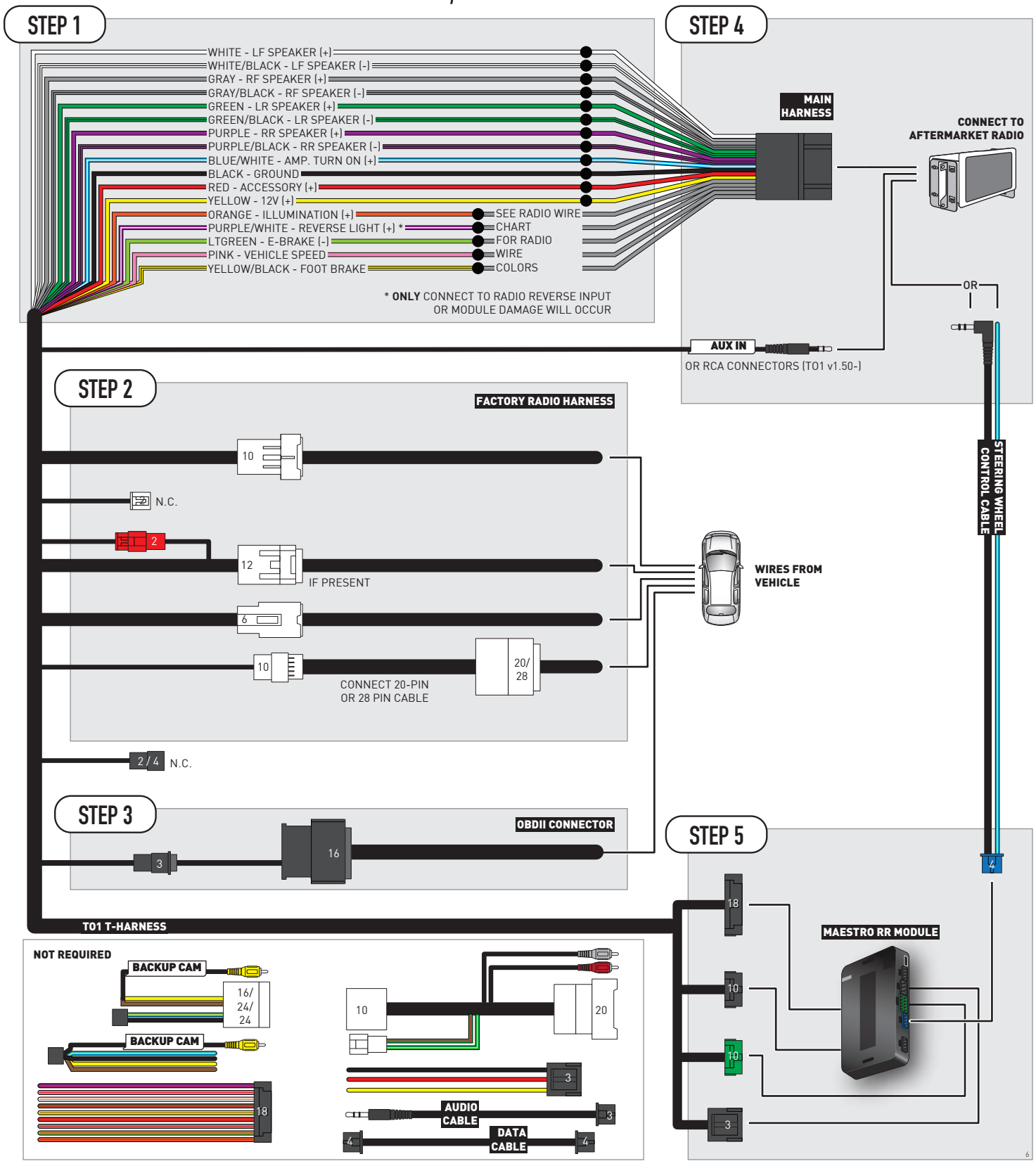
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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INSTALL GUIDE

2009-2013
TOYOTA COROLLA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PROGRAMMED FIRMWARE: TO1-RR-AS

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ADDITIONAL INFORMATION AND ACCESSORIES

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

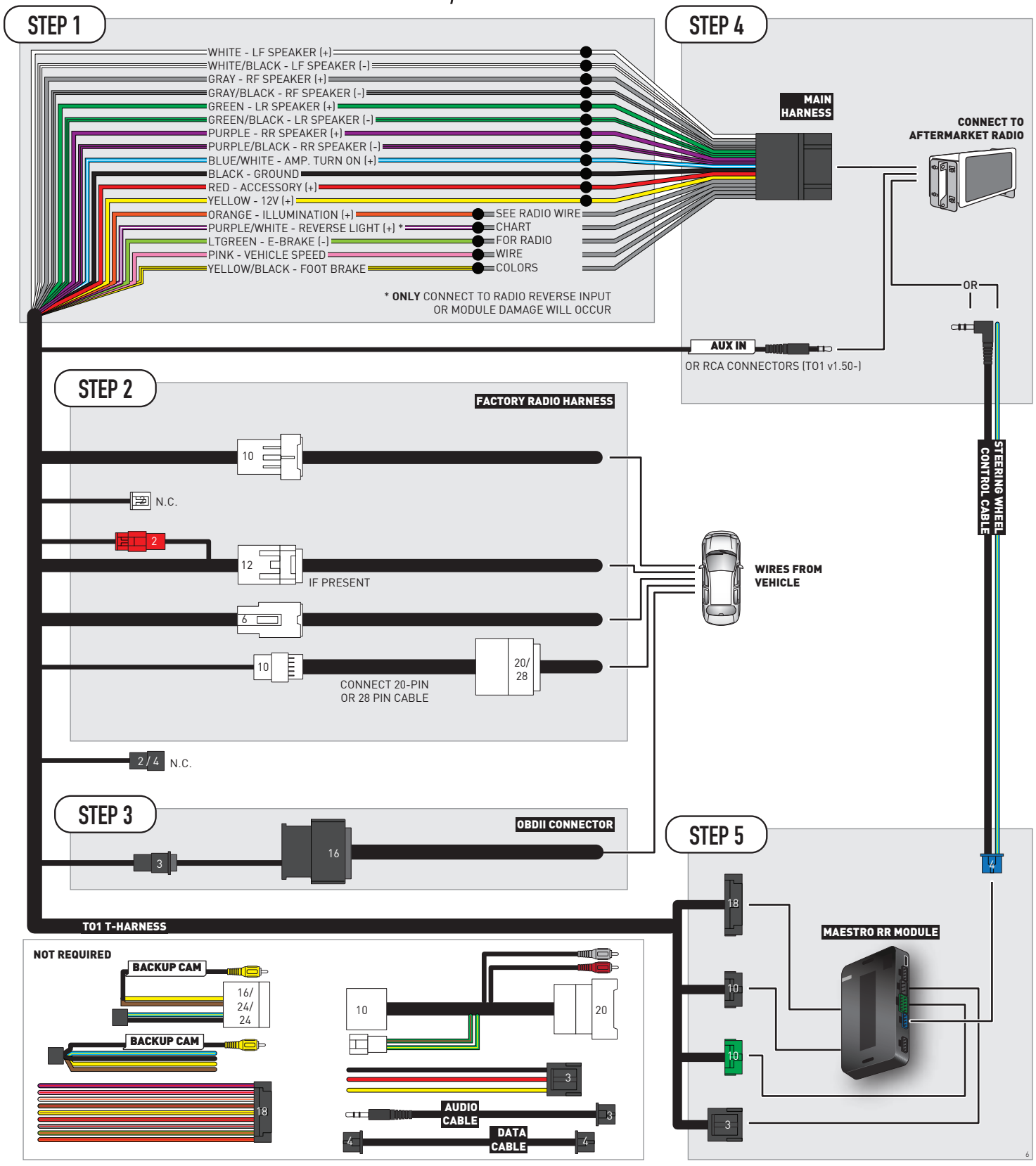
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2017-2018
TOYOTA COROLLA IM

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

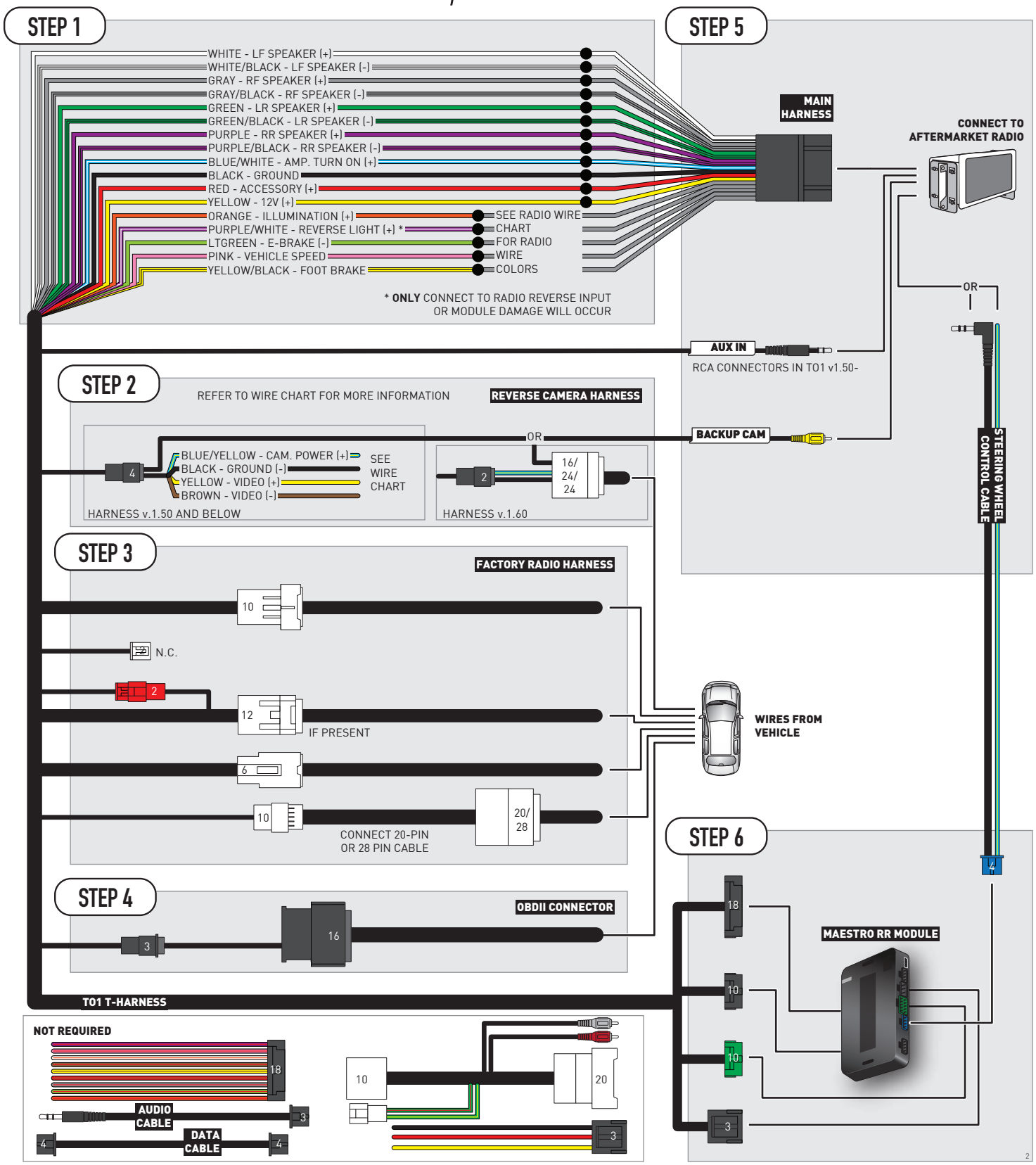
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

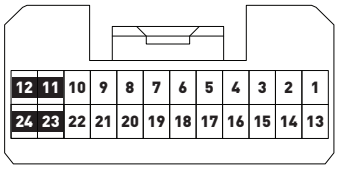
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2006-2014
TOYOTA FJ CRUISER
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

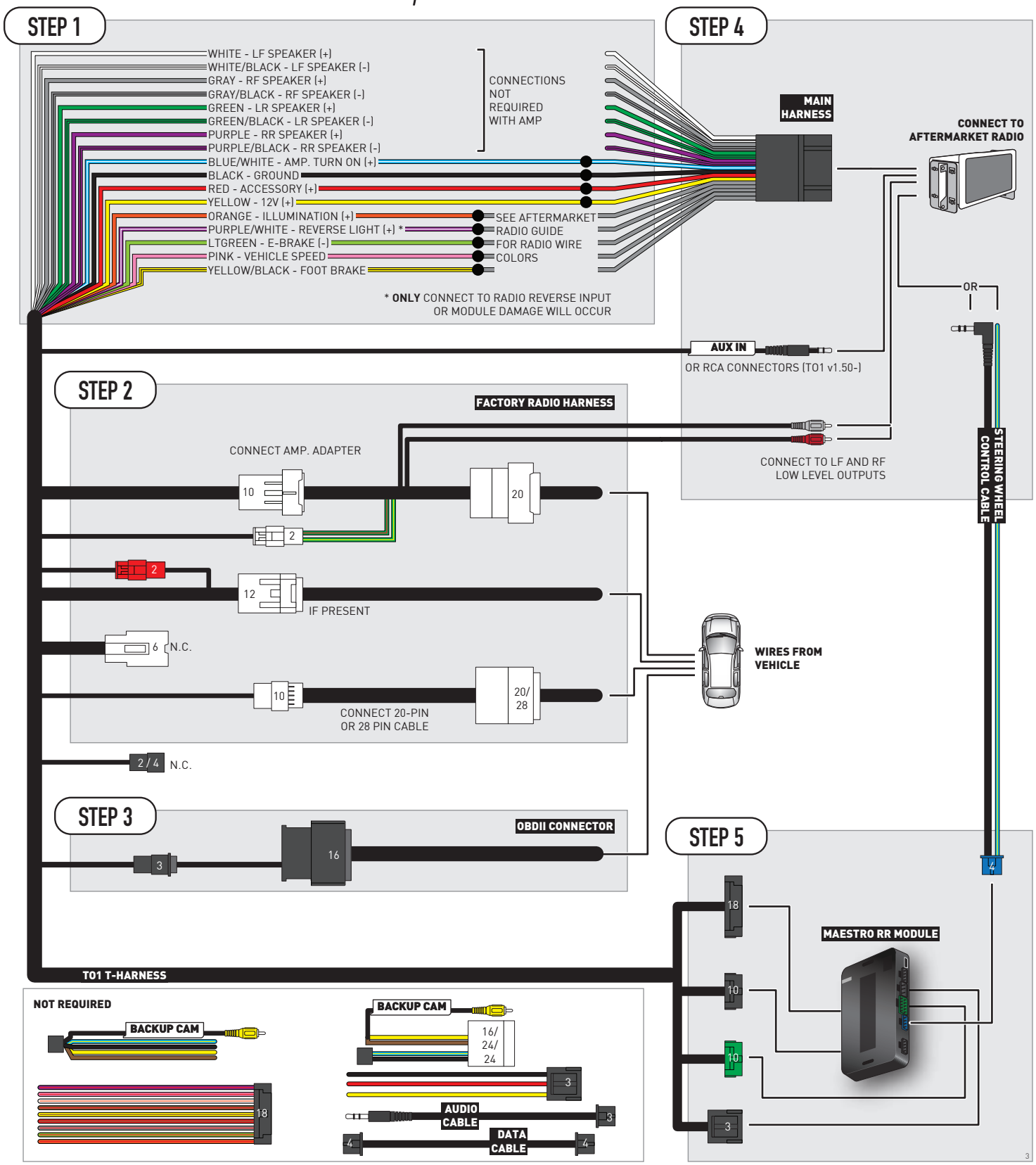
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Connect the steering wheel control cable to the aftermarket radio. 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 5

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

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WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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INSTALL GUIDE

2006-2014
TOYOTA FJ CRUISER
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

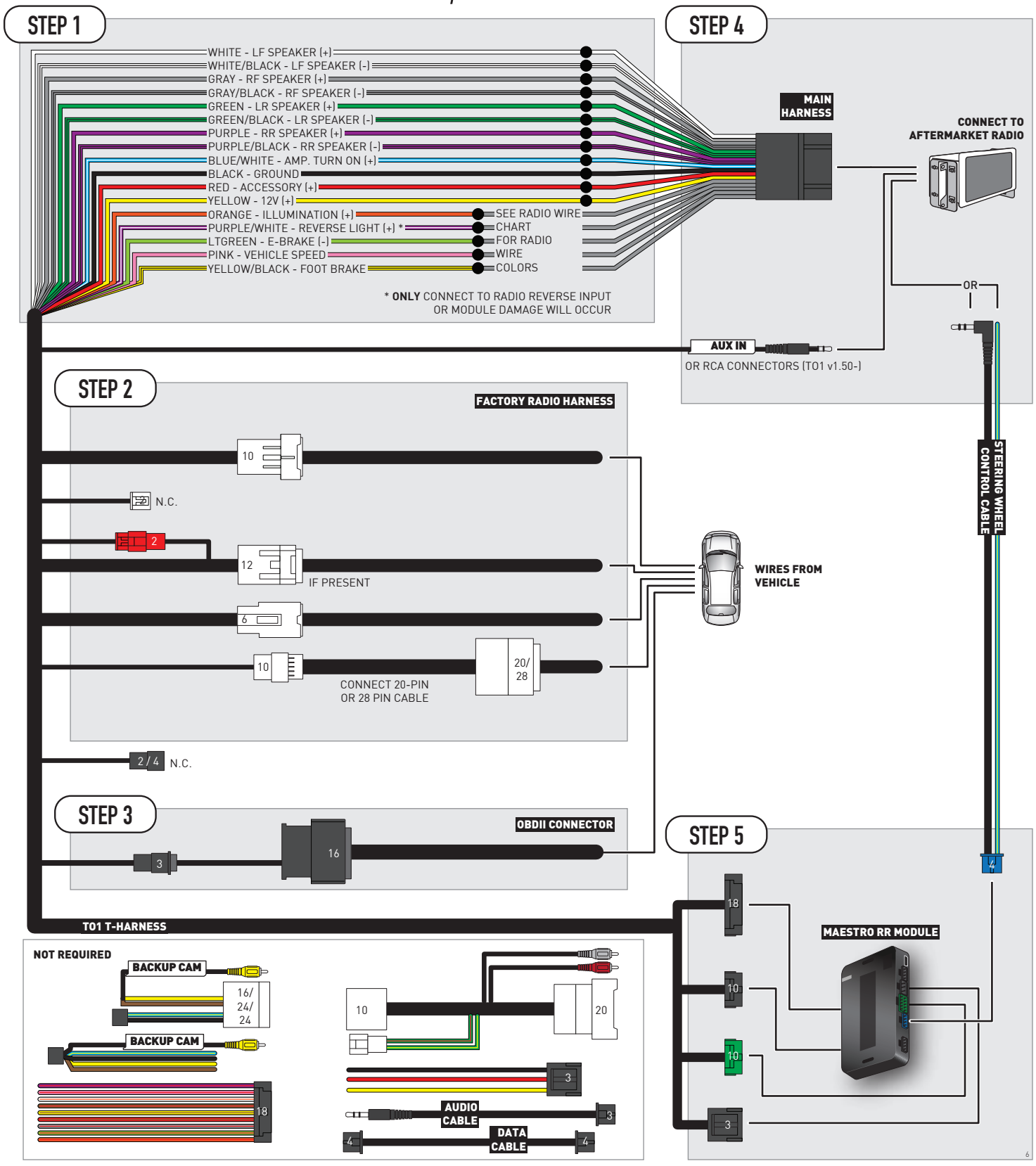
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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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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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2008-2012
TOYOTA HIGHLANDER
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

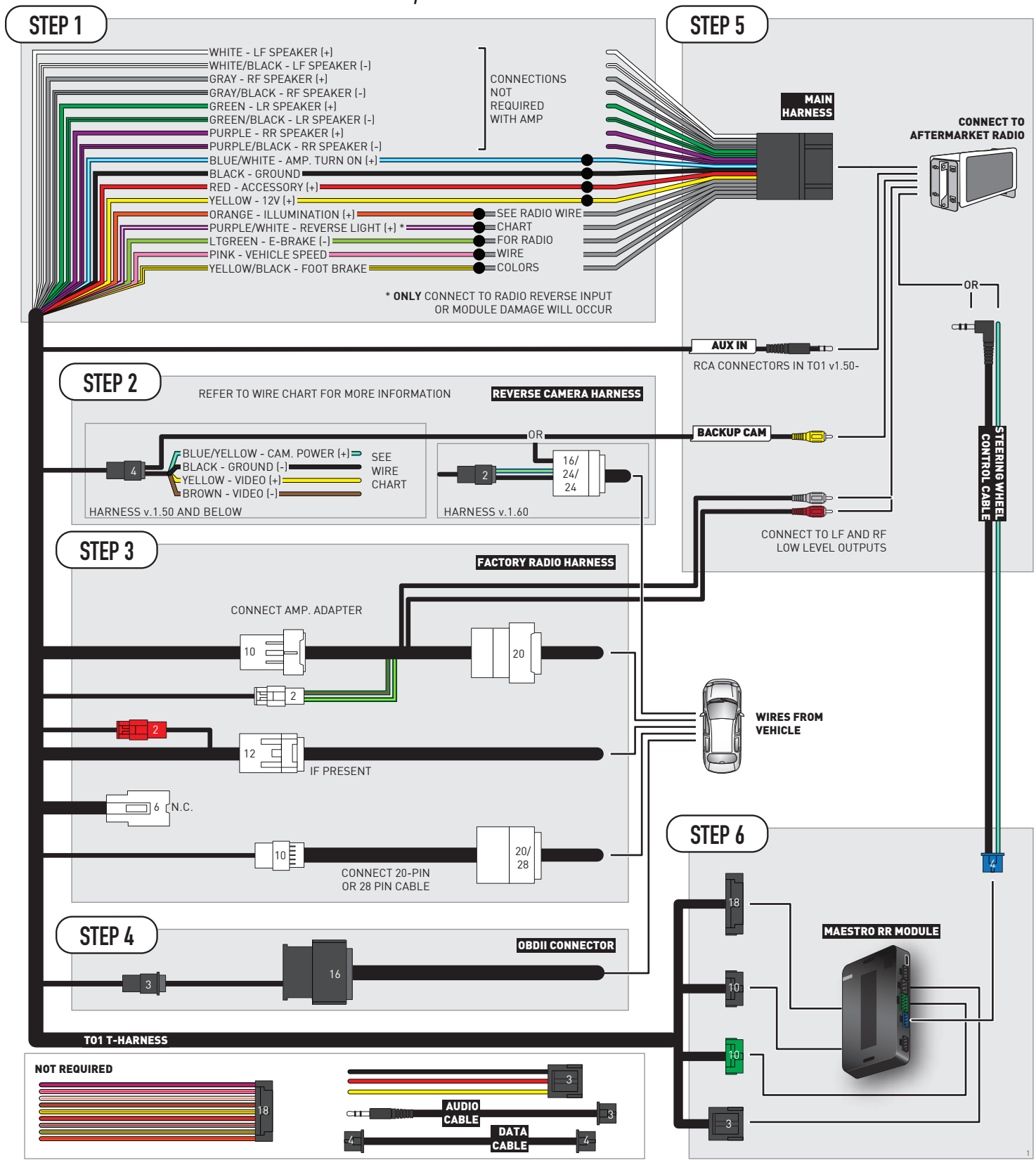
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

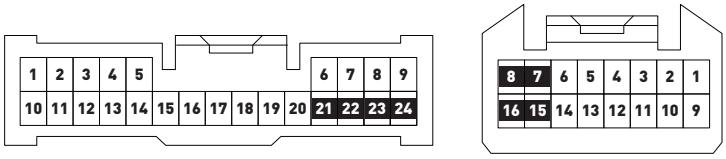
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	White	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

2013
TOYOTA HIGHLANDER
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

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NEED HELP?

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ADDITIONAL INFORMATION AND ACCESSORIES

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Software to program module.	WEBLINK

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

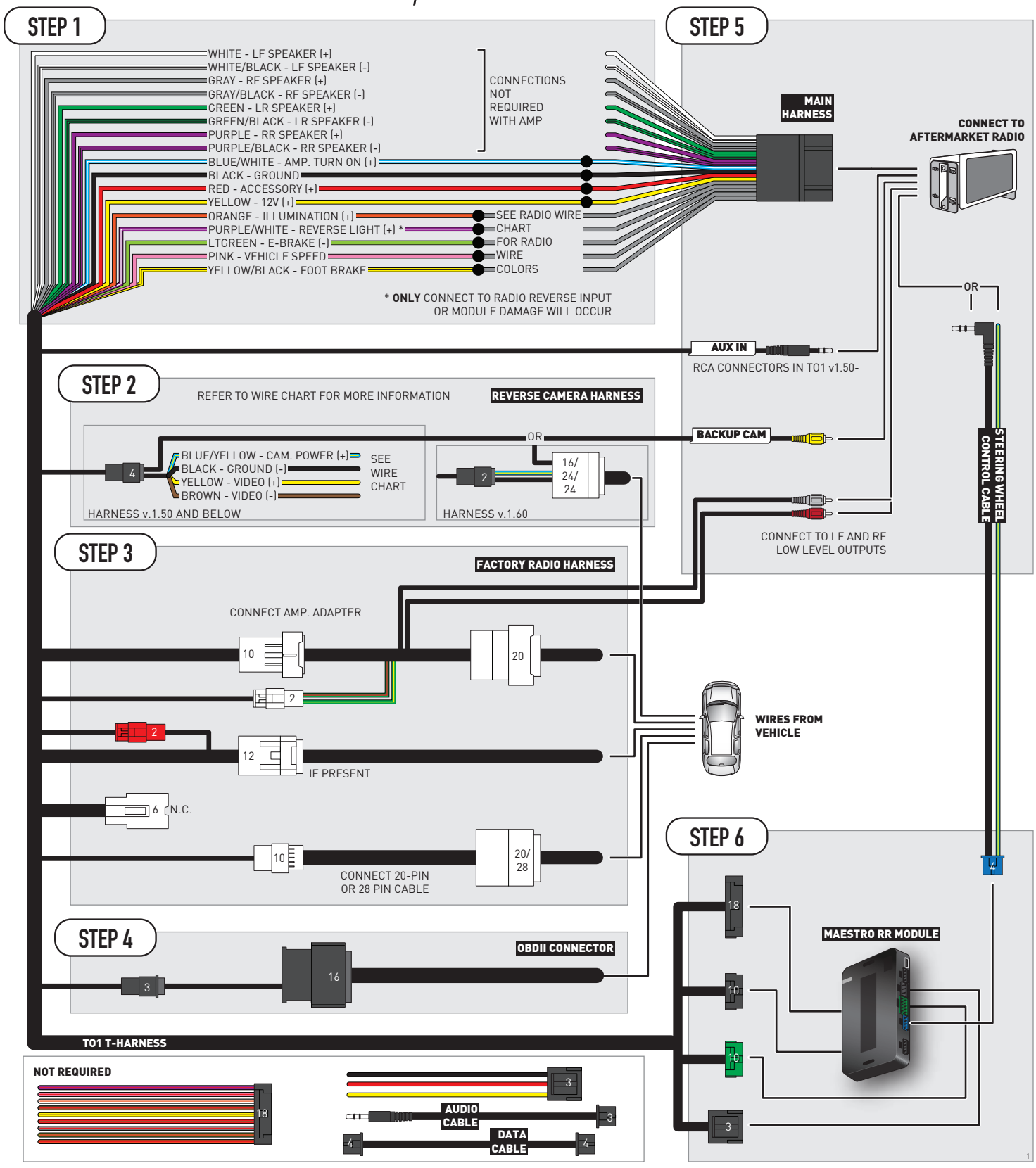
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STEP 6

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

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

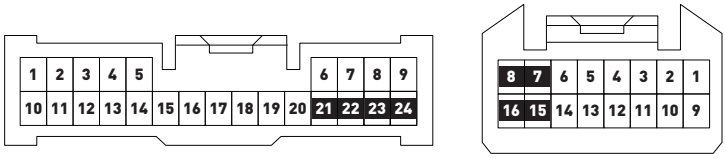
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Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
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REVERSE CAMERA CONNECTORS (WIRE SIDE)



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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(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

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INSTALL GUIDE

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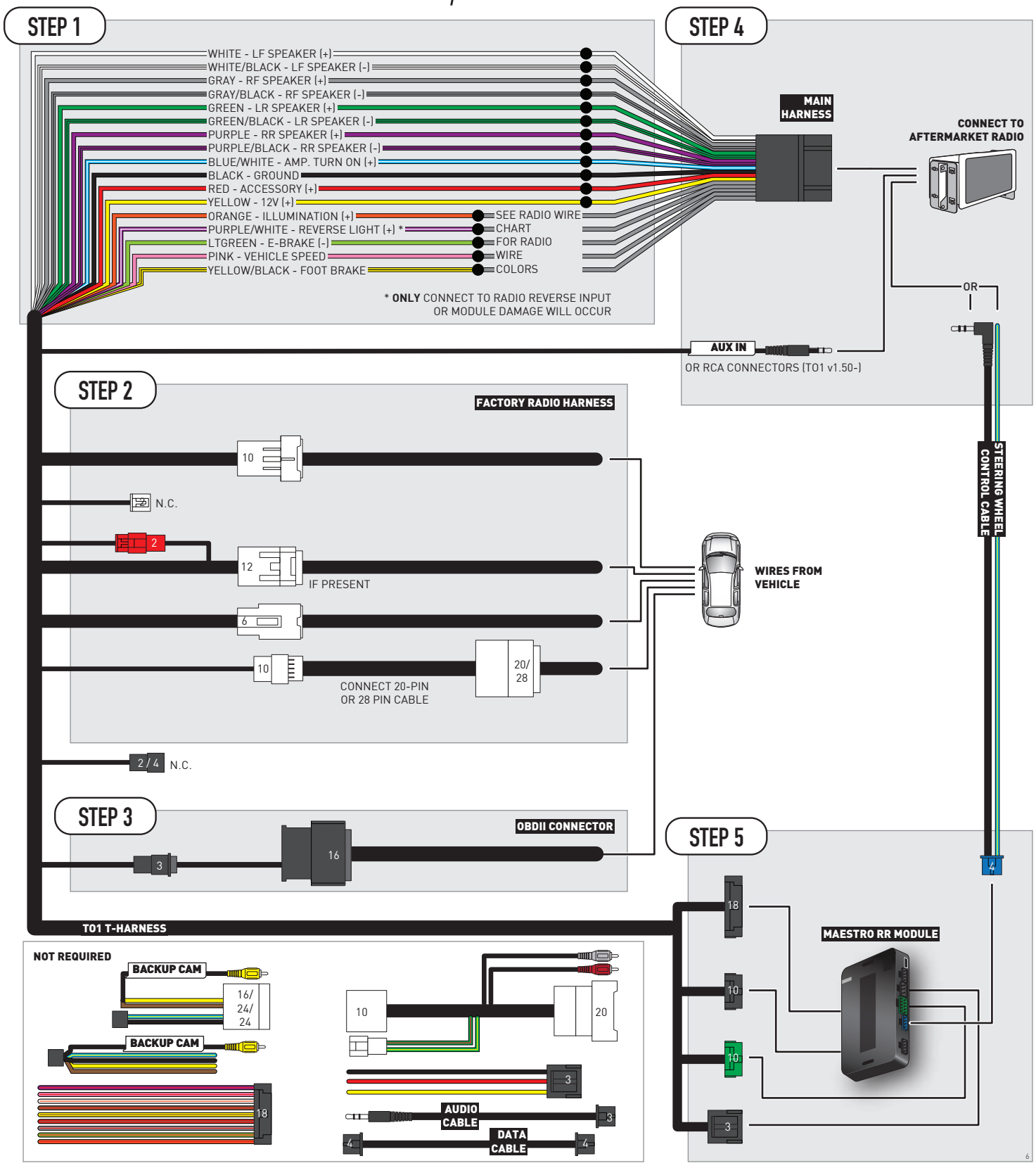
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STEP 5

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

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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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

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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●		1 GREEN flash	After radio boots up : 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.
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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2013
TOYOTA HIGHLANDER
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

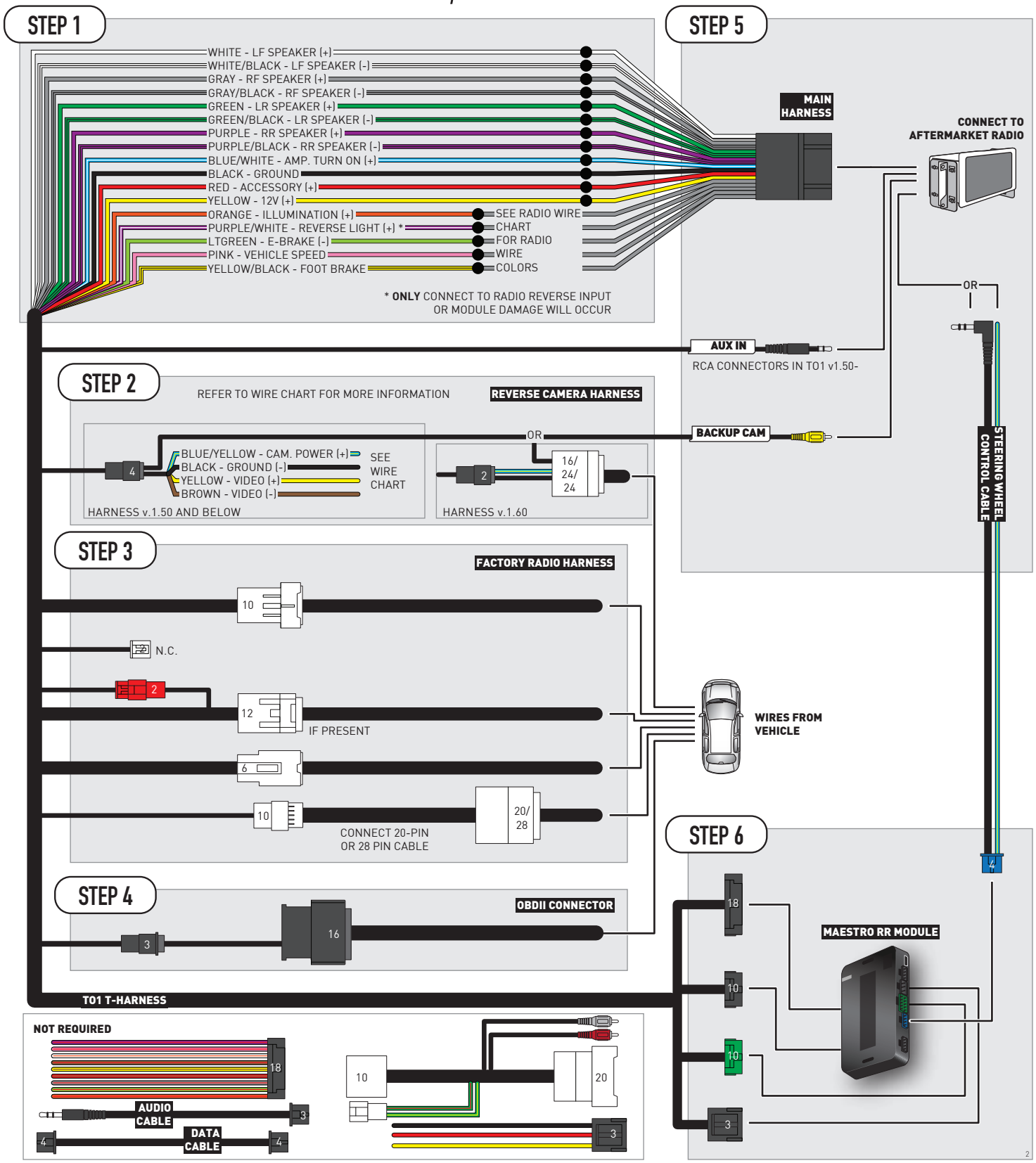
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

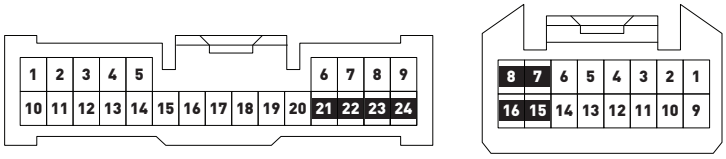
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	White	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2013-2014
TOYOTA MATRIX

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

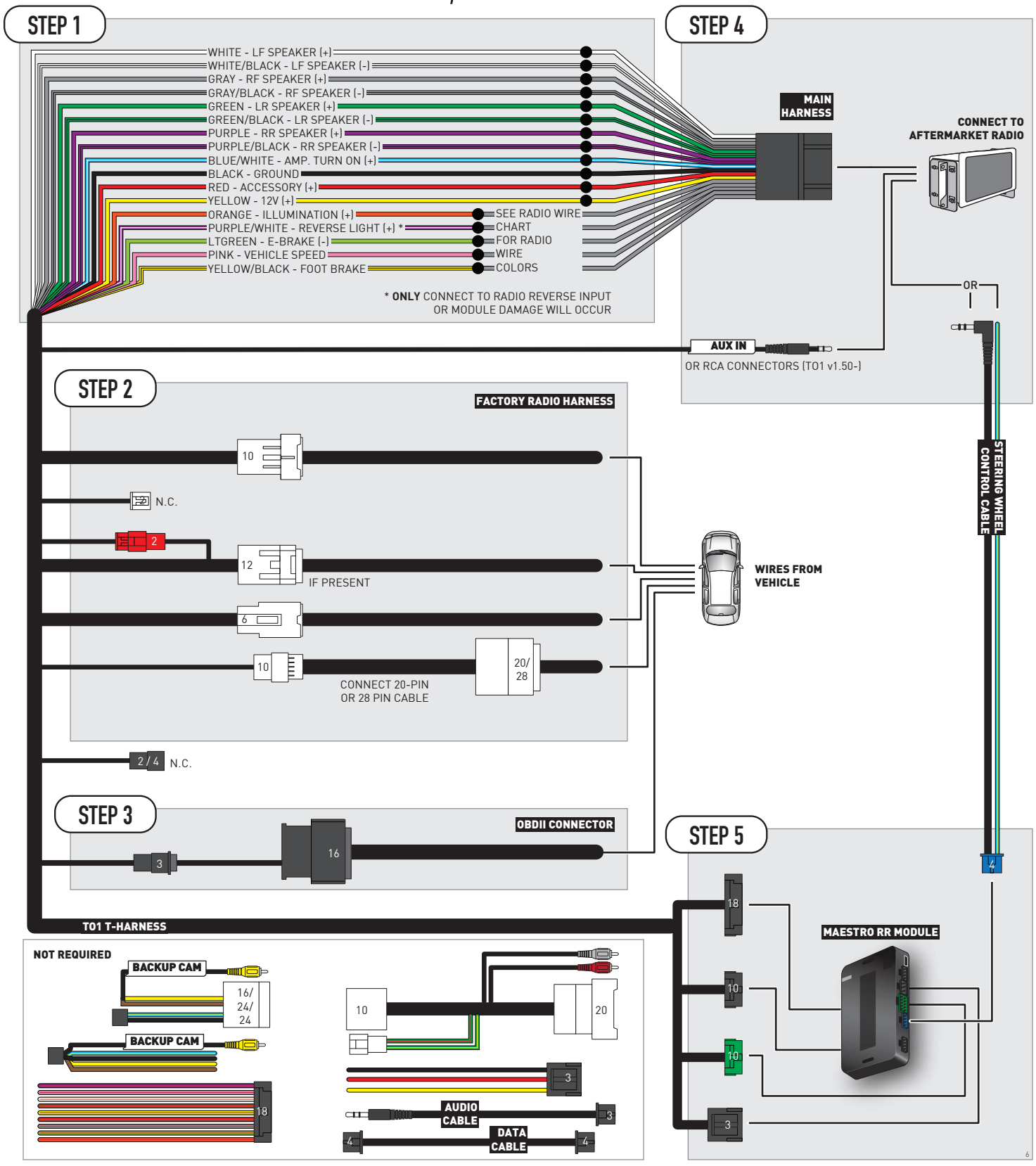
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2009-2012
TOYOTA MATRIX
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

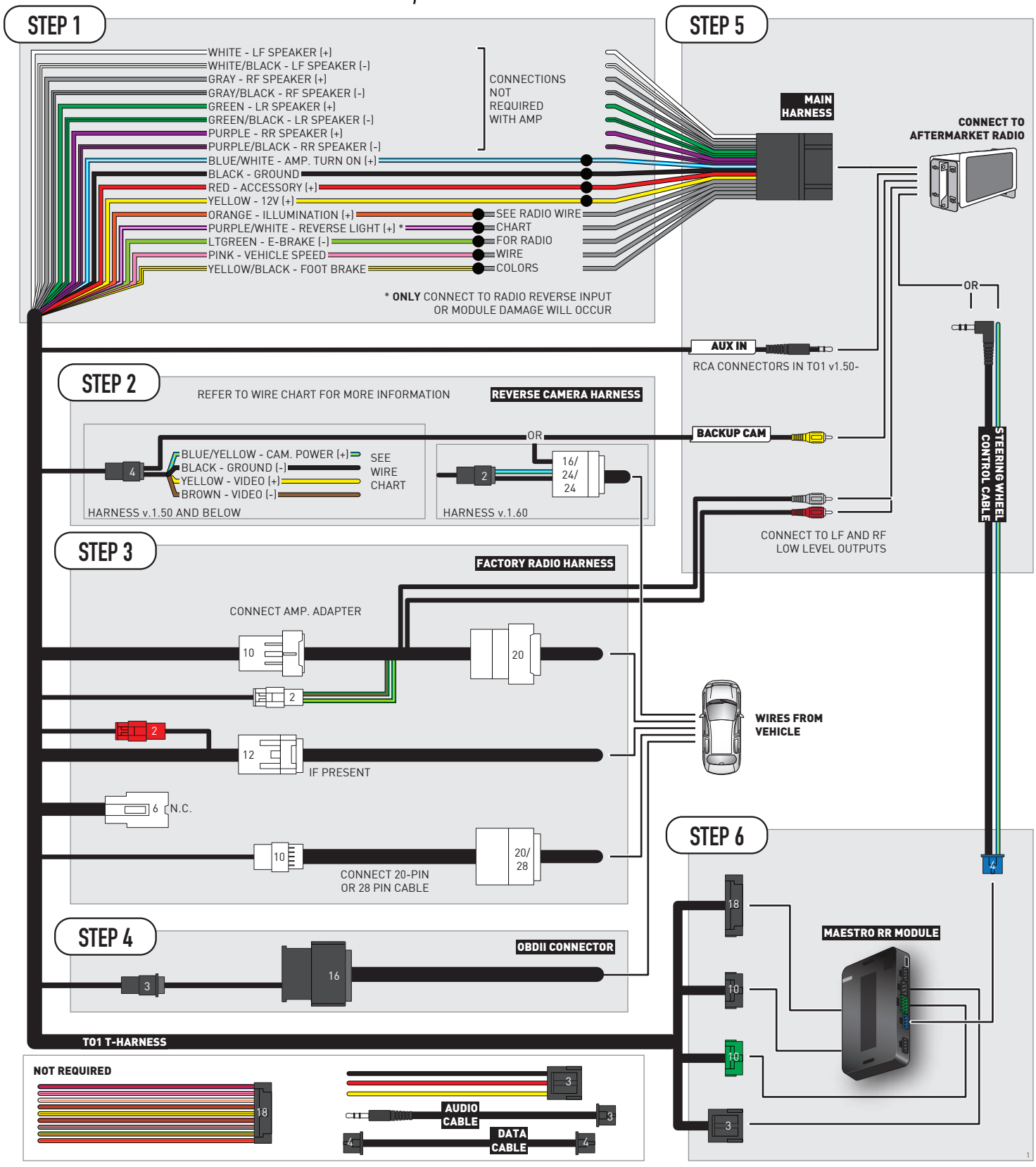
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.
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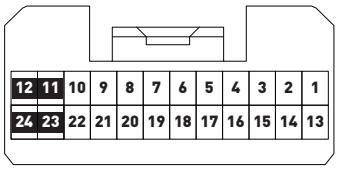
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Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2009-2012
TOYOTA MATRIX
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

Automotive Data Solutions Inc. © 2023

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

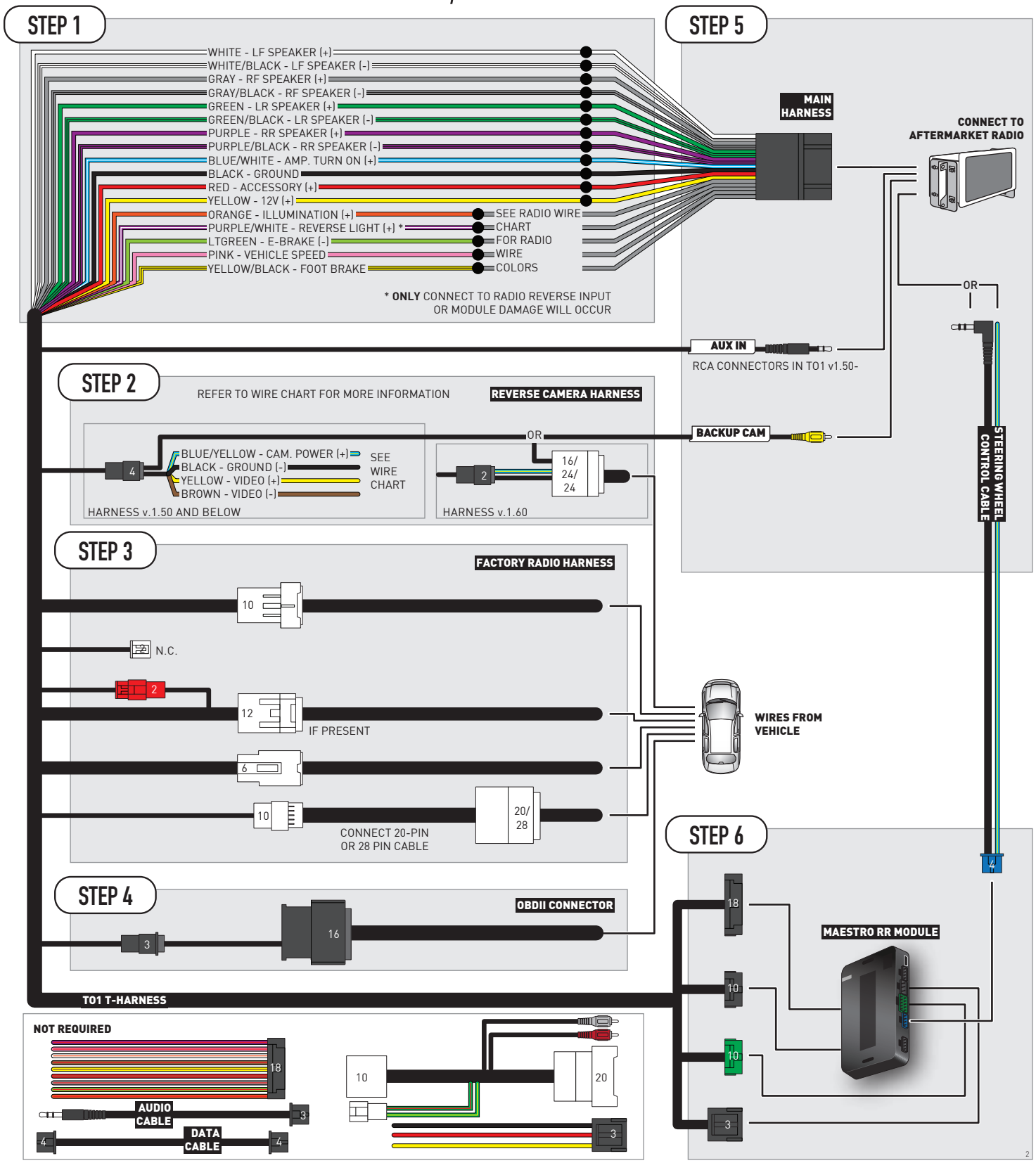
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

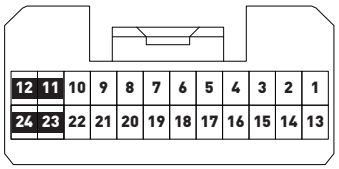
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2015
TOYOTA PRIUS
BASE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

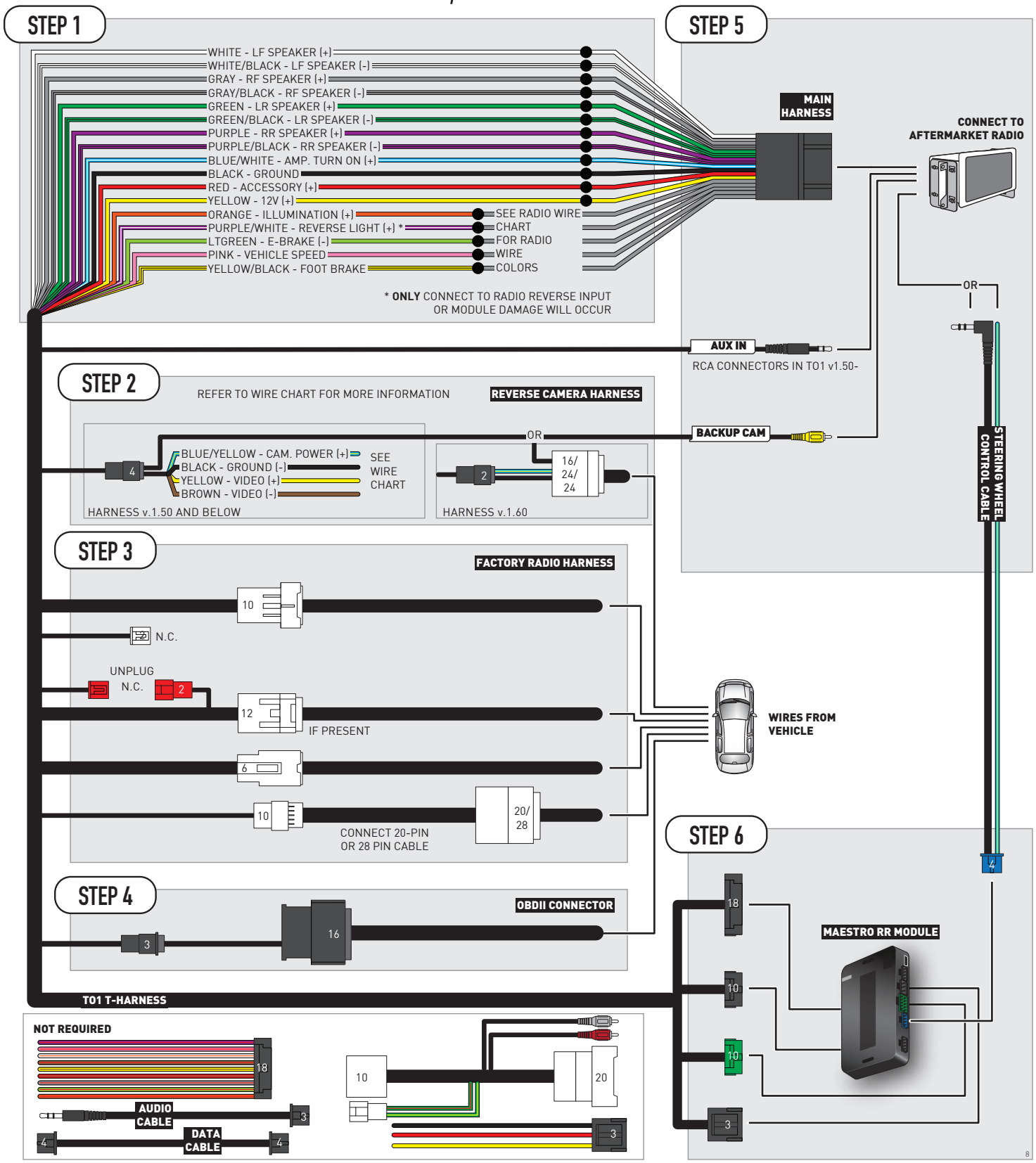
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

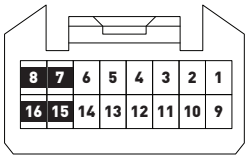
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	White	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2010-2011
TOYOTA PRIUS
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

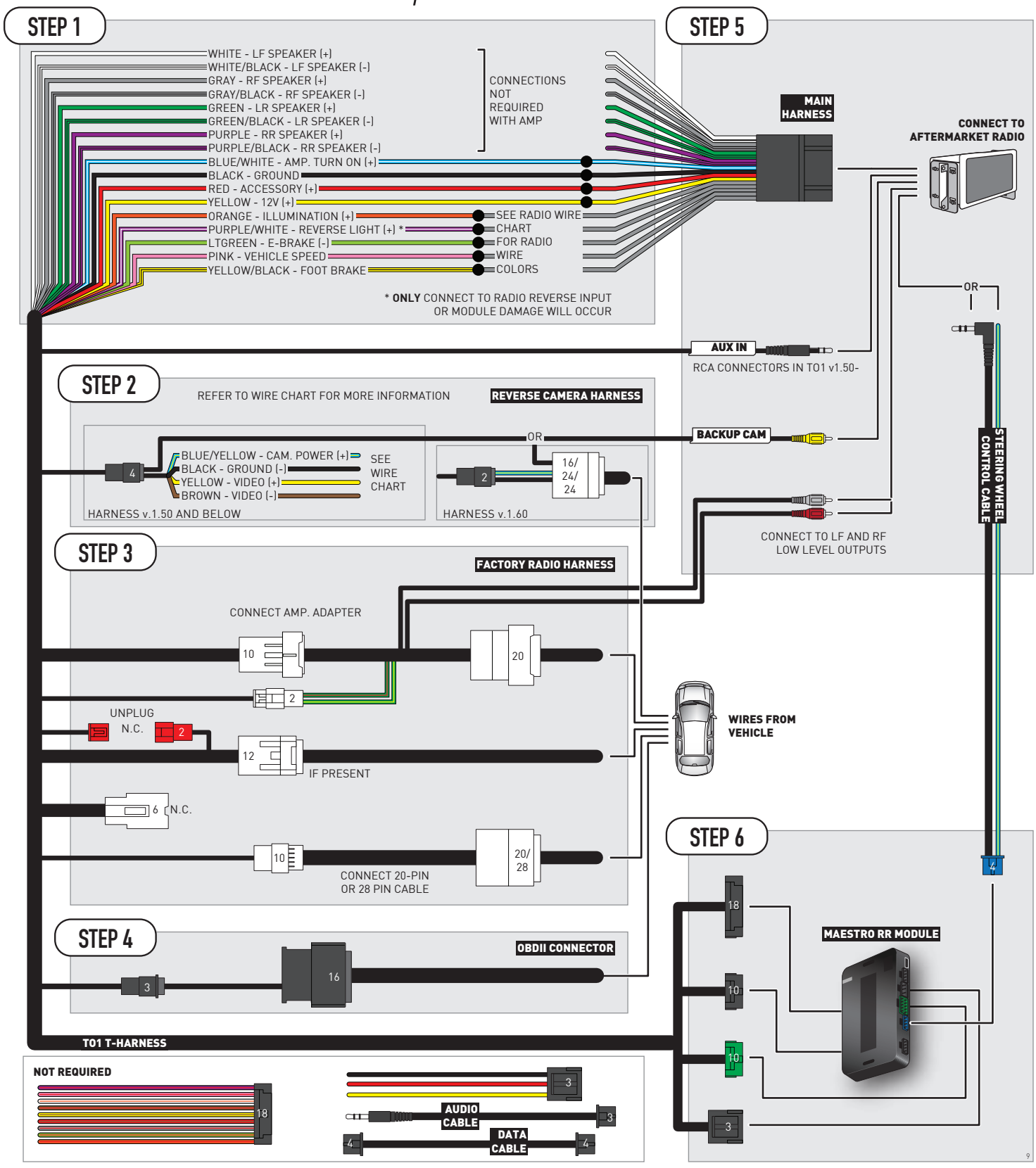
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.
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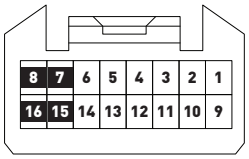
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	White	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2010-2011
TOYOTA PRIUS
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

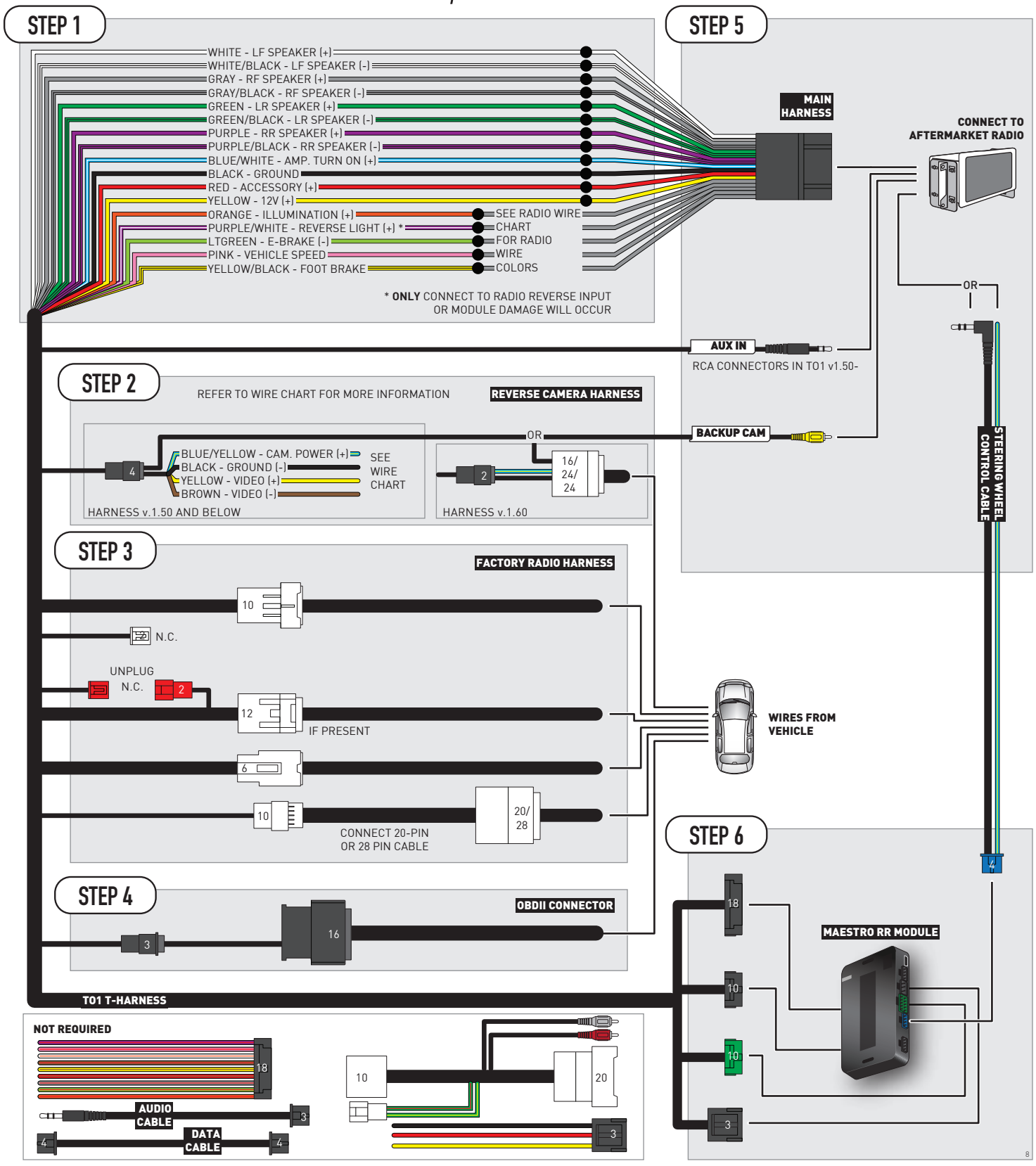
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

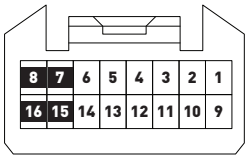
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	White	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Black	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012
TOYOTA RAV 4

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

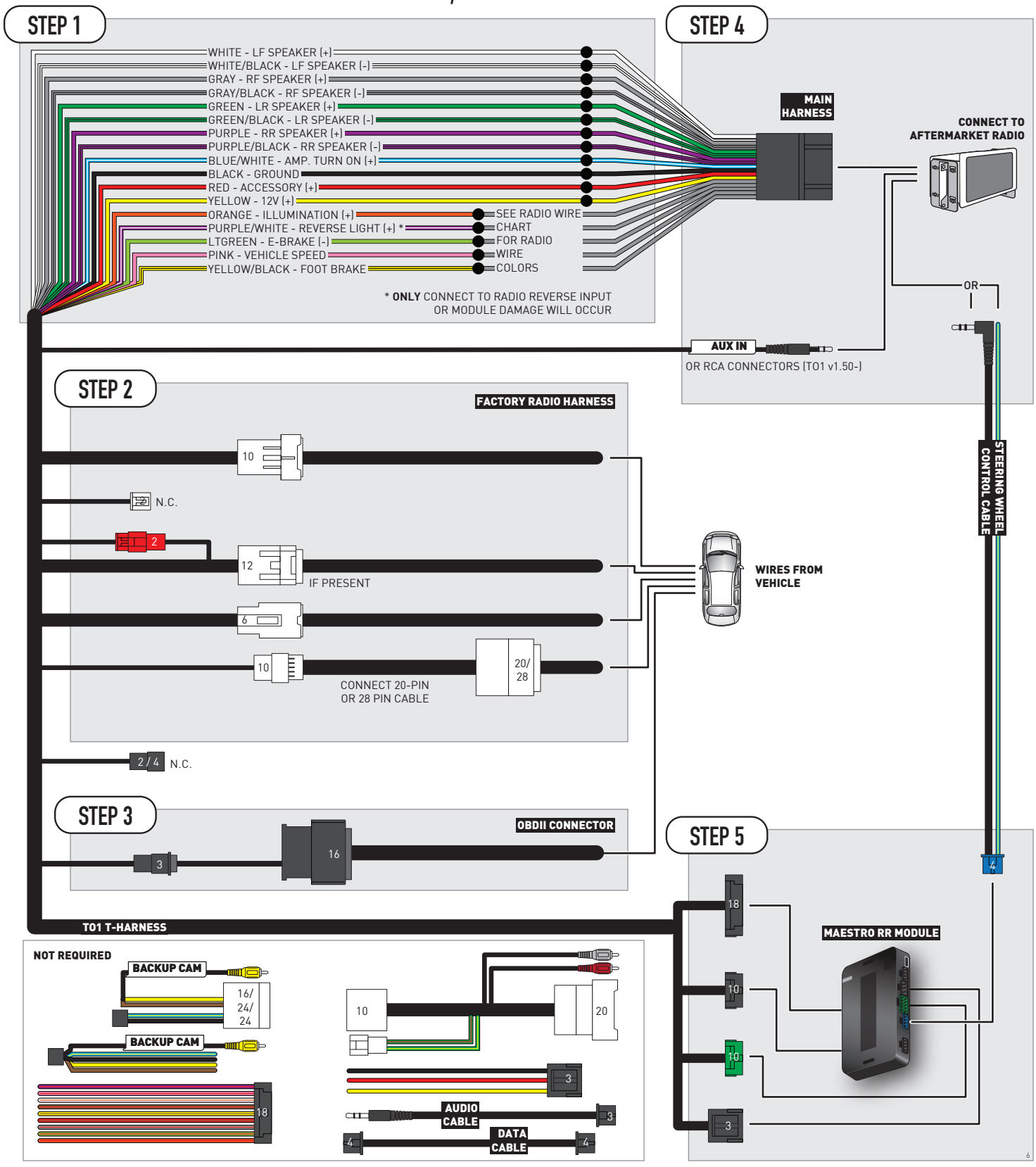
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2006-2011
TOYOTA RAV 4
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

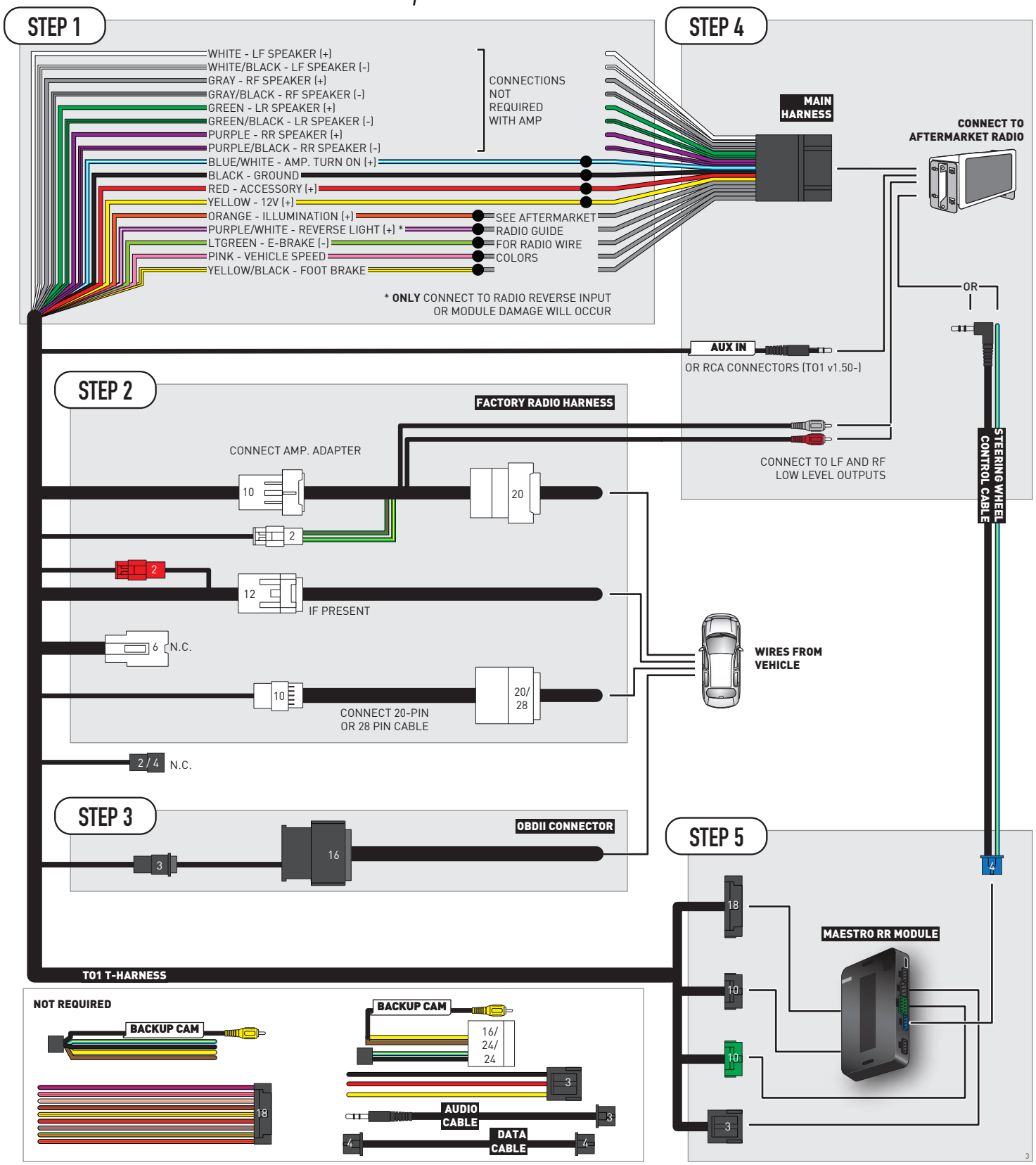
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Connect the steering wheel control cable to the aftermarket radio. 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 5

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

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WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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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iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

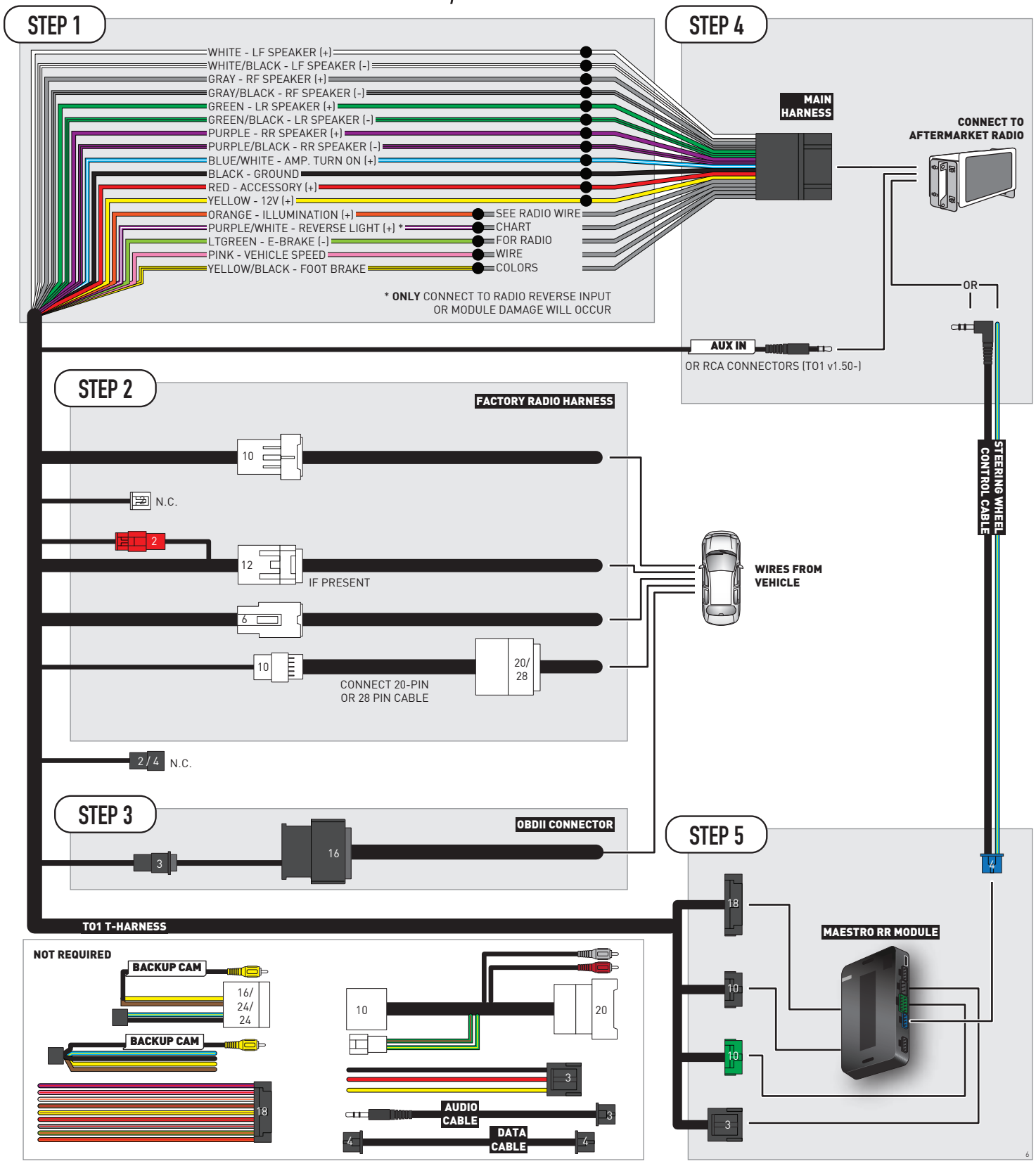
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2008-2013
TOYOTA SEQUOIA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

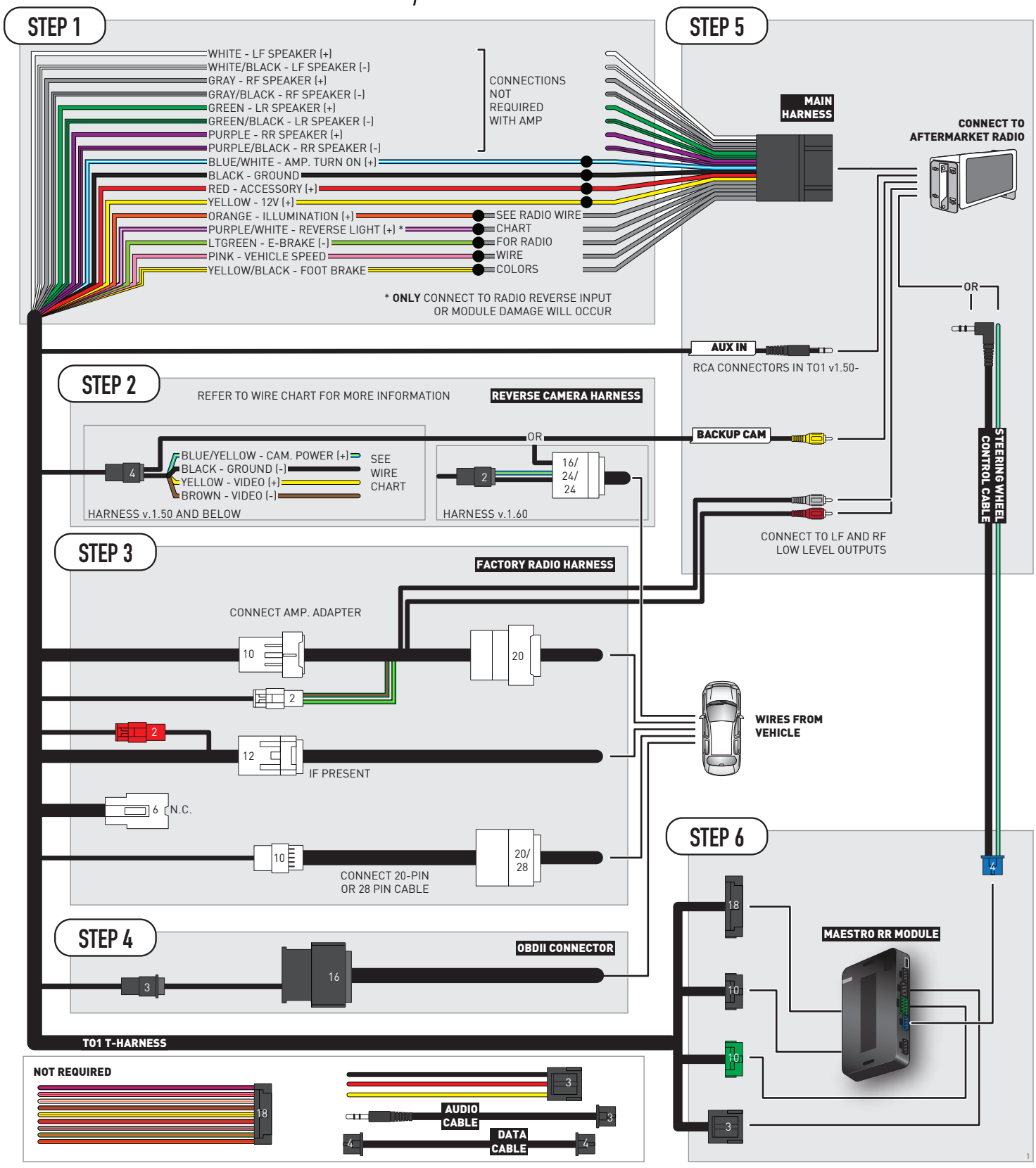
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

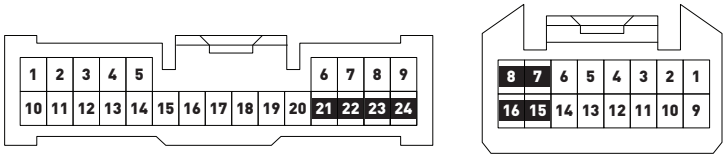
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	White	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2008-2013
TOYOTA SEQUOIA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



PRODUCTS REQUIRED

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

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

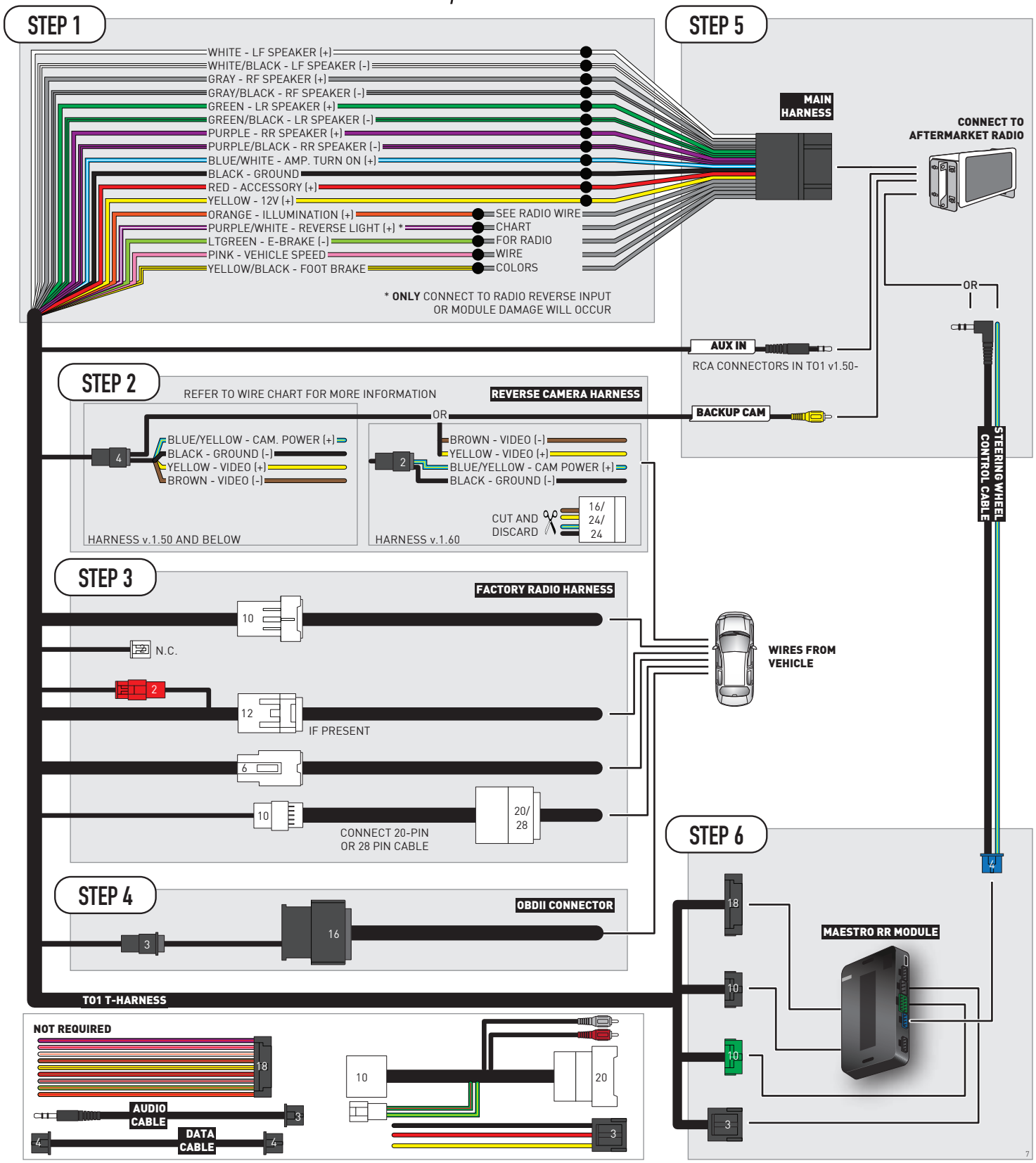
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

7

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

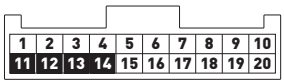
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	20 pin	13	Black	(+)	Reverse camera harness
Ground	~	~	20 pin	14	White	(-)	Reverse camera harness
Video +	~	~	20 pin	11	Red	(+)	Reverse camera harness
Video -	~	~	20 pin	12	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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

MAESTRO RR RESET PROCEDURE:

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

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INSTALL GUIDE

2014-2018
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- Connect the wires shown on the next page from aftermarket radio main harness to the T01 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the T01 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

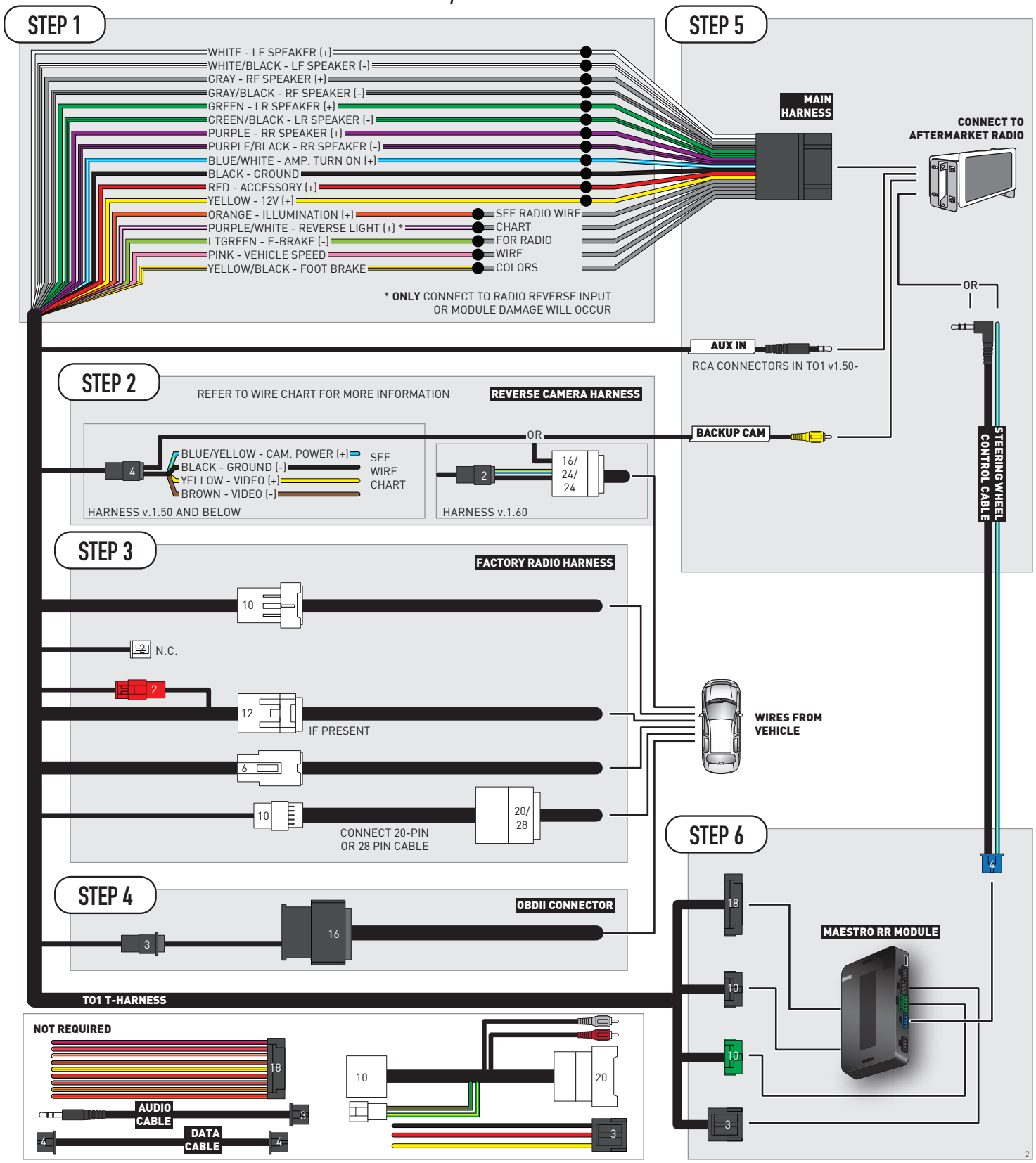
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

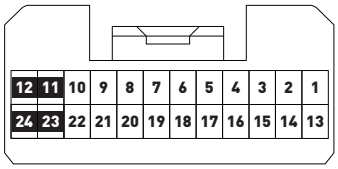
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	White	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2007-2010
TOYOTA SIENNA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

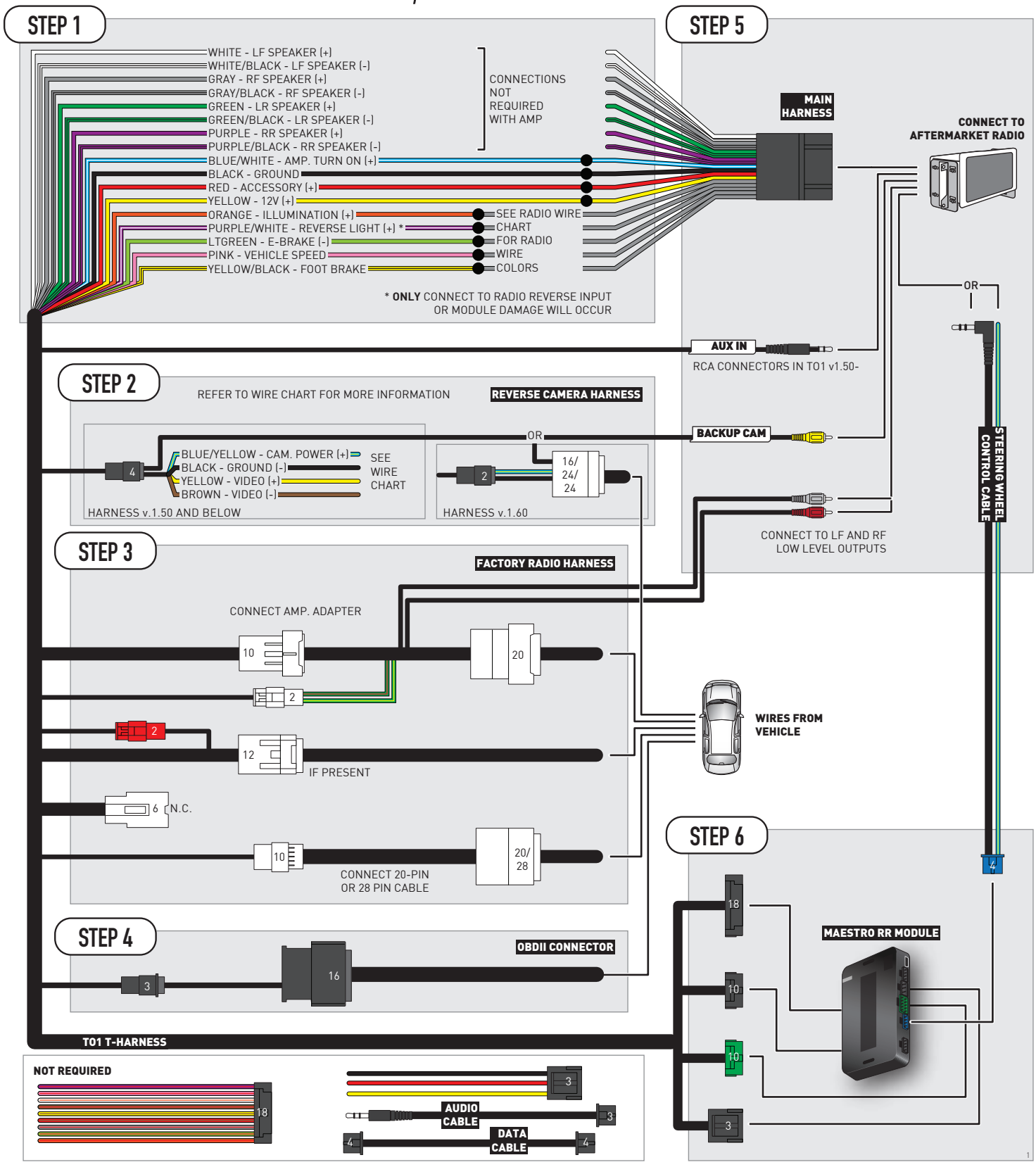
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.
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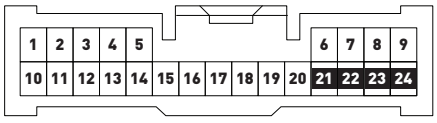
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Red	(+)	Reverse camera harness
Ground	~	~	24 pin	21	White	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Black	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2011-2014
TOYOTA SIENNA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

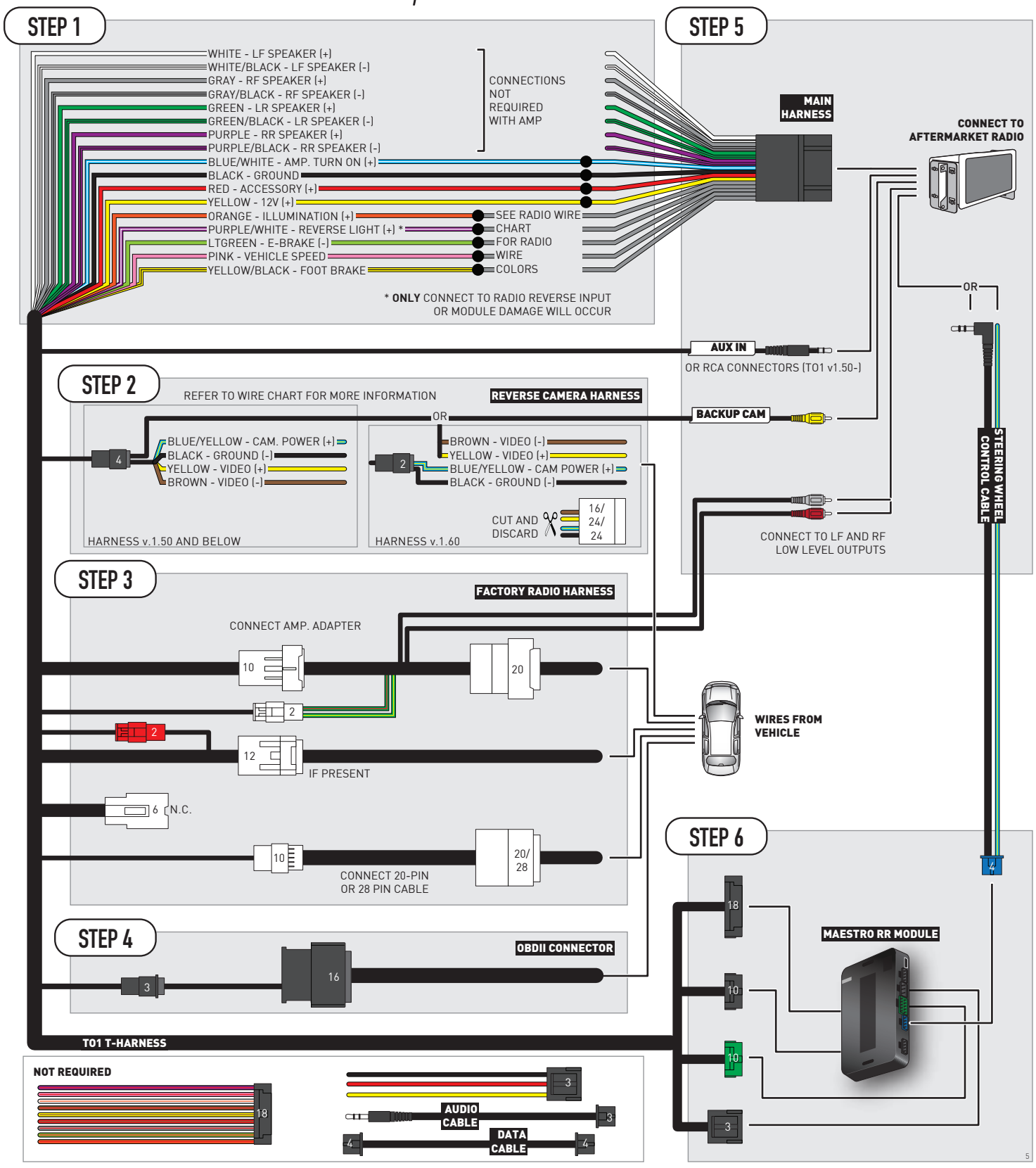
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STEP 6

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

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WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.
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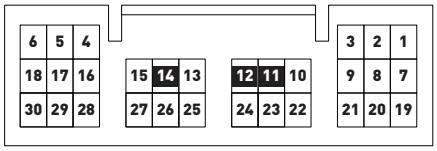
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Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	30 pin	14	Red	(+)	Parking assist ECU, behind glovebox
Ground	~	~	~	~	~	~	~
Video +	~	~	30 pin	12	Black	(+)	Parking assist ECU, behind glovebox
Video -	~	~	30 pin	11	White	(-)	Parking assist ECU, behind glovebox

PARKING ASSIST CONNECTOR (WIRE SIDE)



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.
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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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Phone: 1-866-427-2999

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INSTALL GUIDE

2007-2010
TOYOTA SIENNA
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PROGRAMMED FIRMWARE: TO1-RR-AS

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

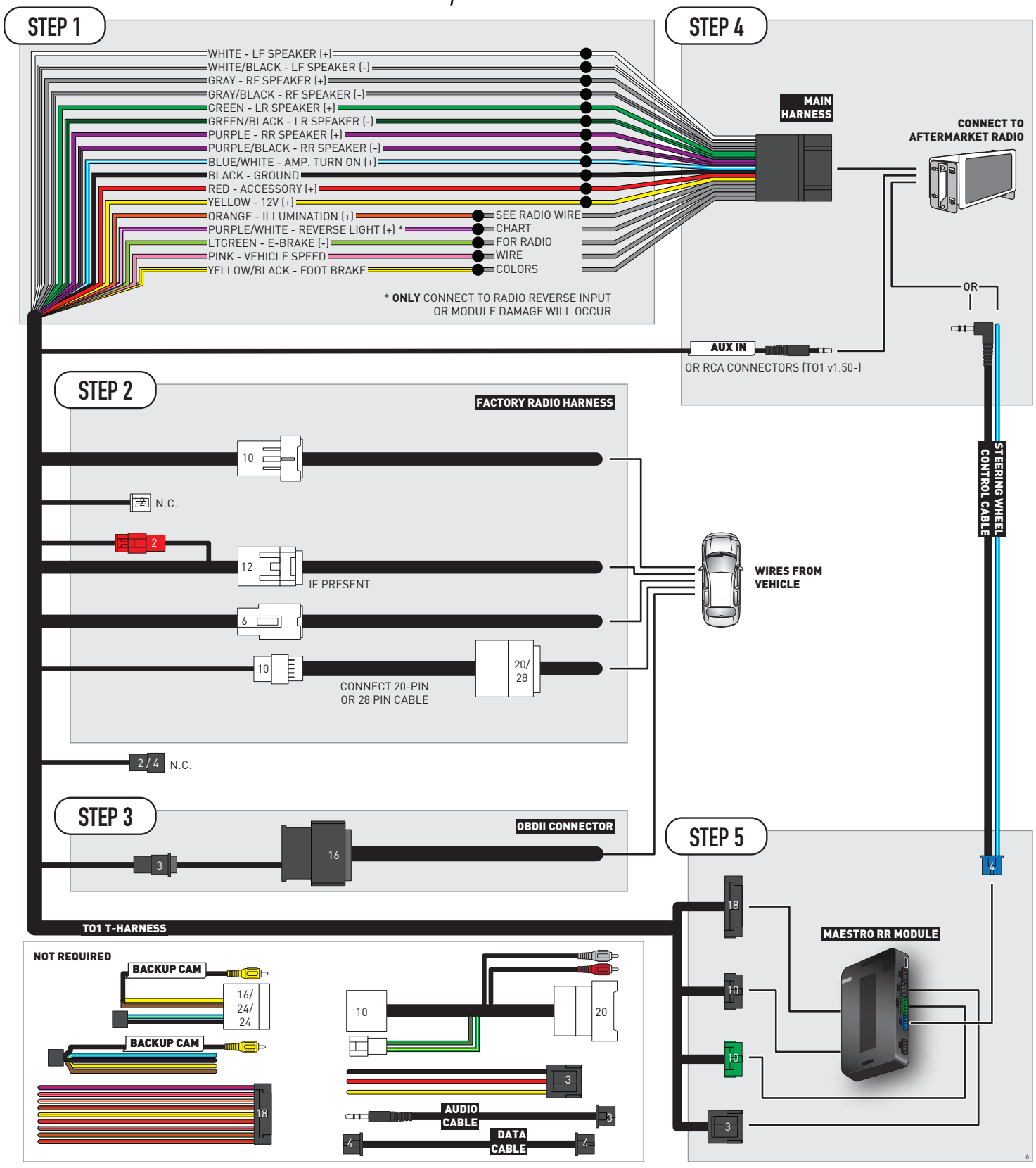
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STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2011-2014
TOYOTA SIENNA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

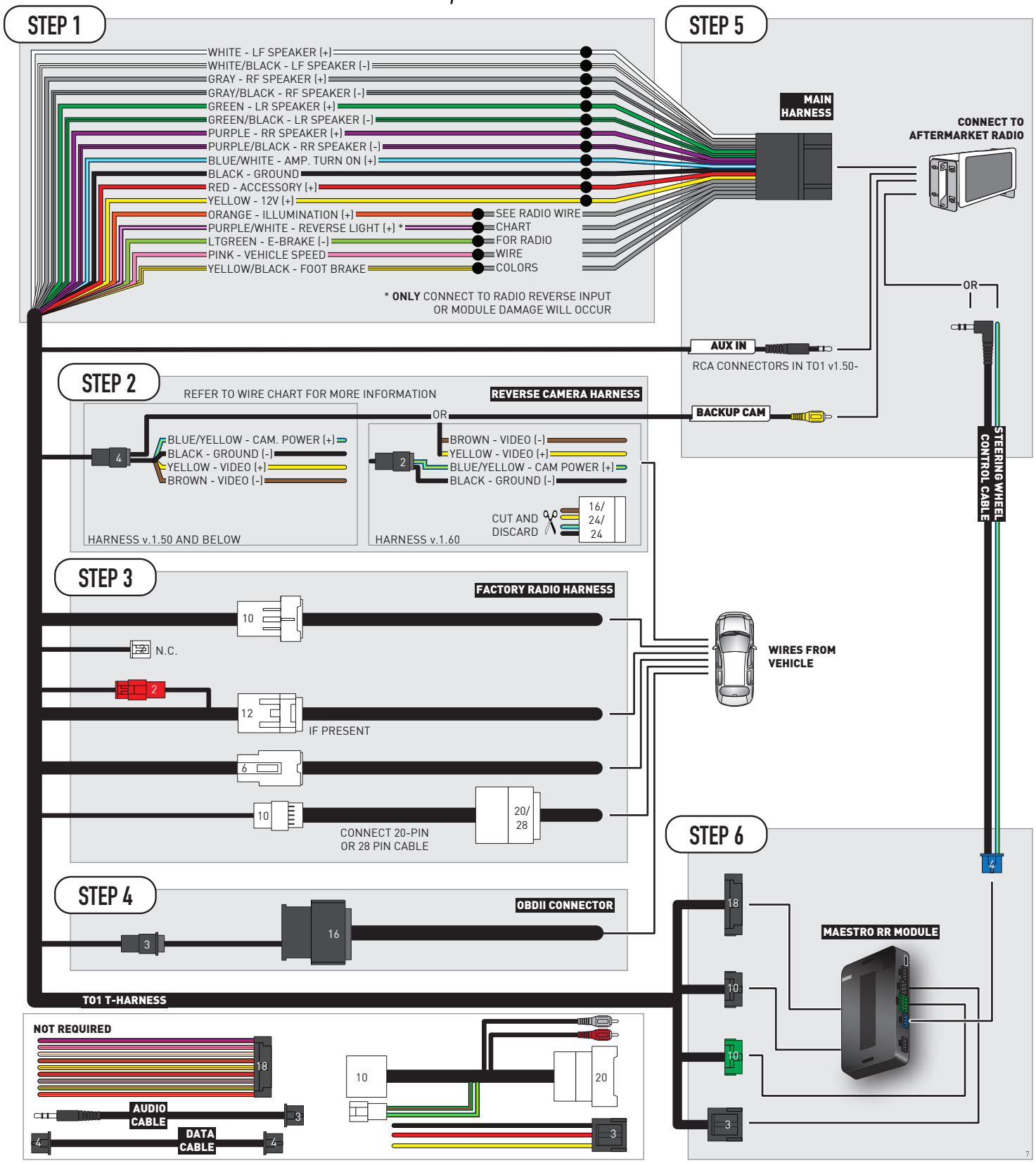
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

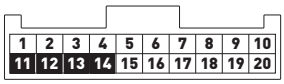
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	20 pin	13	Red	(+)	Reverse camera harness
Ground	~	~	20 pin	14	Shield	(-)	Reverse camera harness
Video +	~	~	20 pin	11	Black	(+)	Reverse camera harness
Video -	~	~	20 pin	12	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2005-2011
TOYOTA TACOMA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

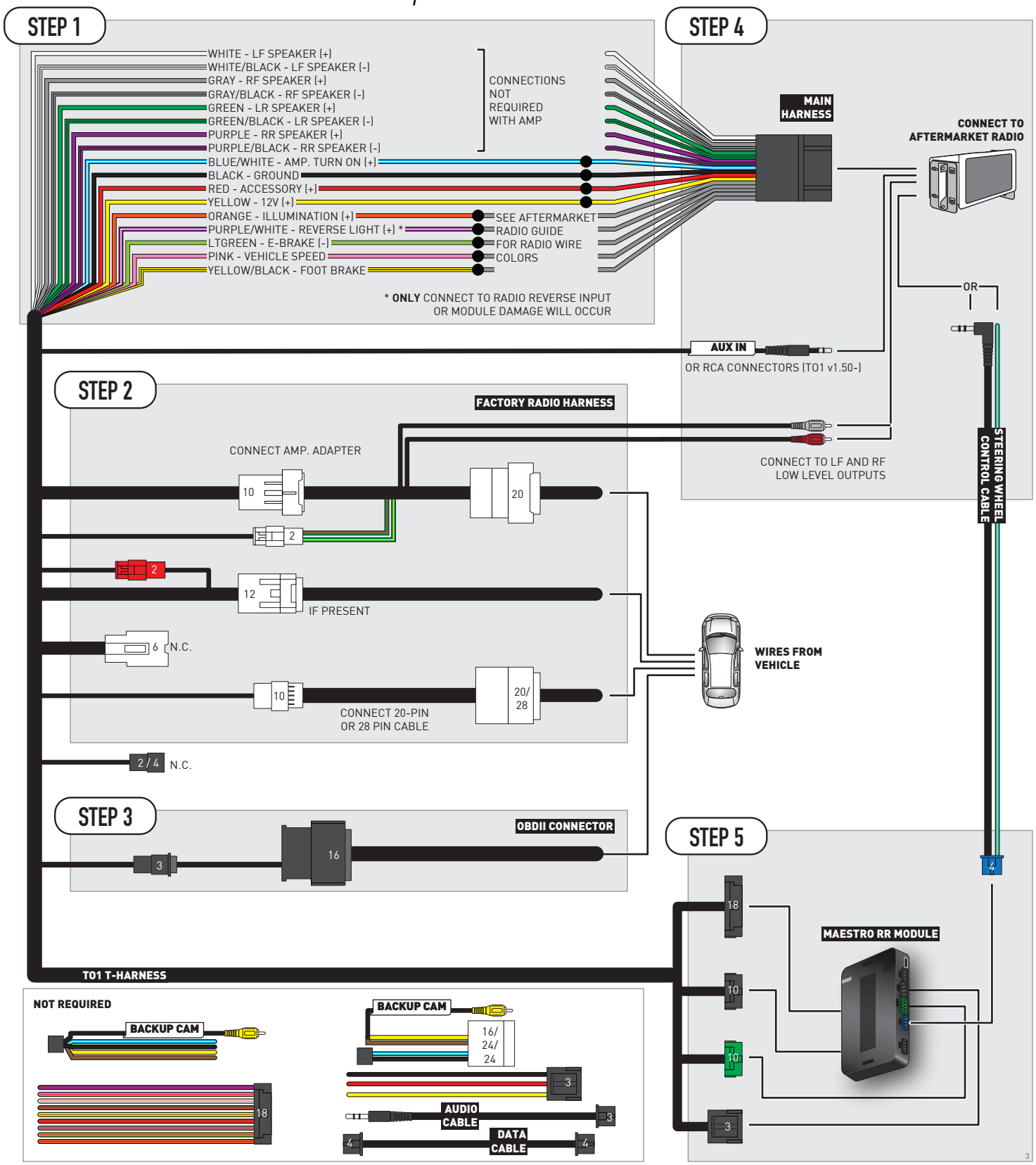
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- Connect the steering wheel control cable to the aftermarket radio. 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 5

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

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WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2013
TOYOTA TACOMA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

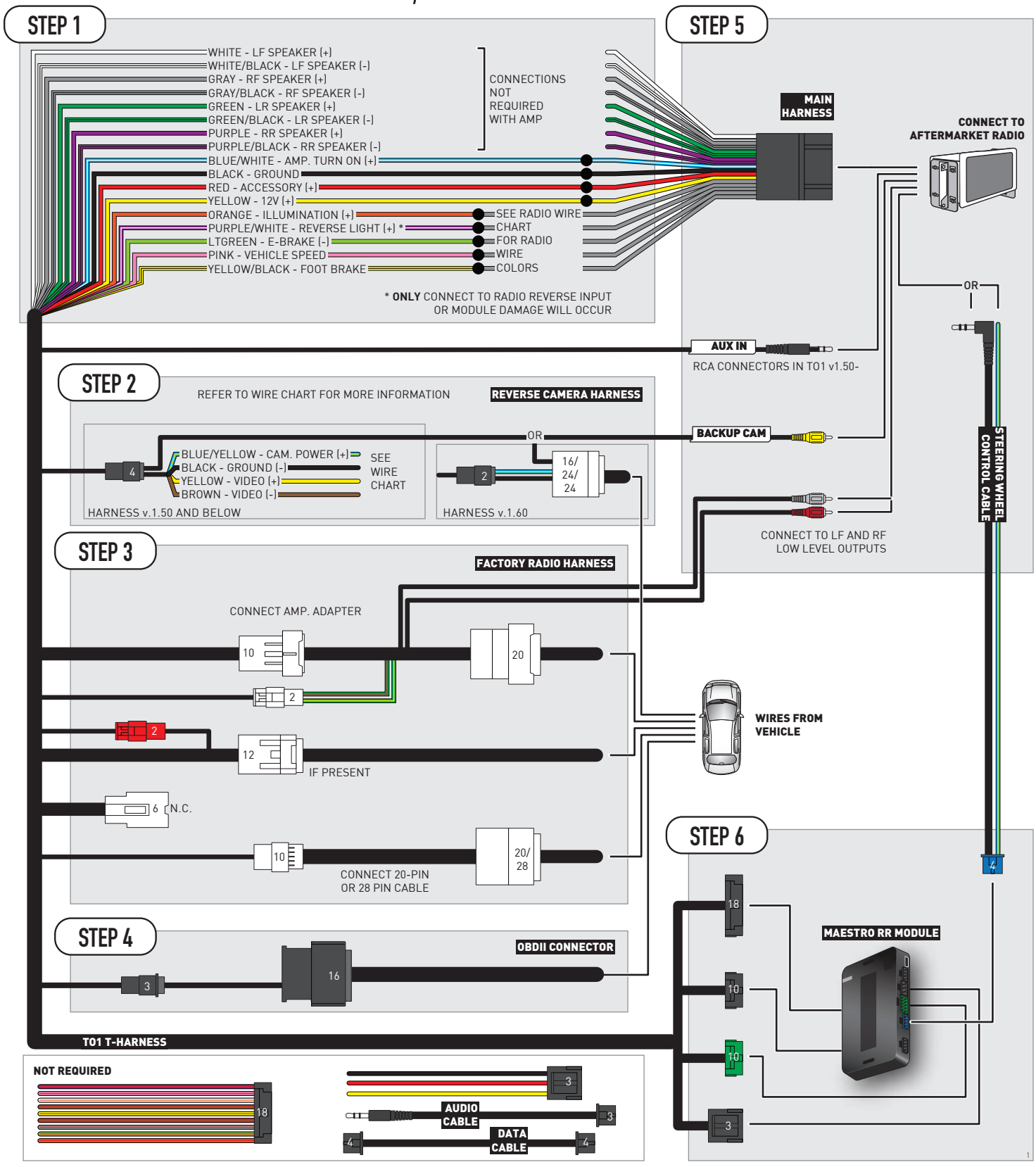
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- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

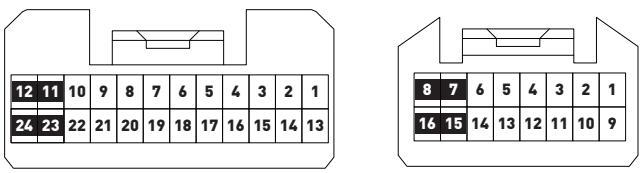
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2005-2011
TOYOTA TACOMA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

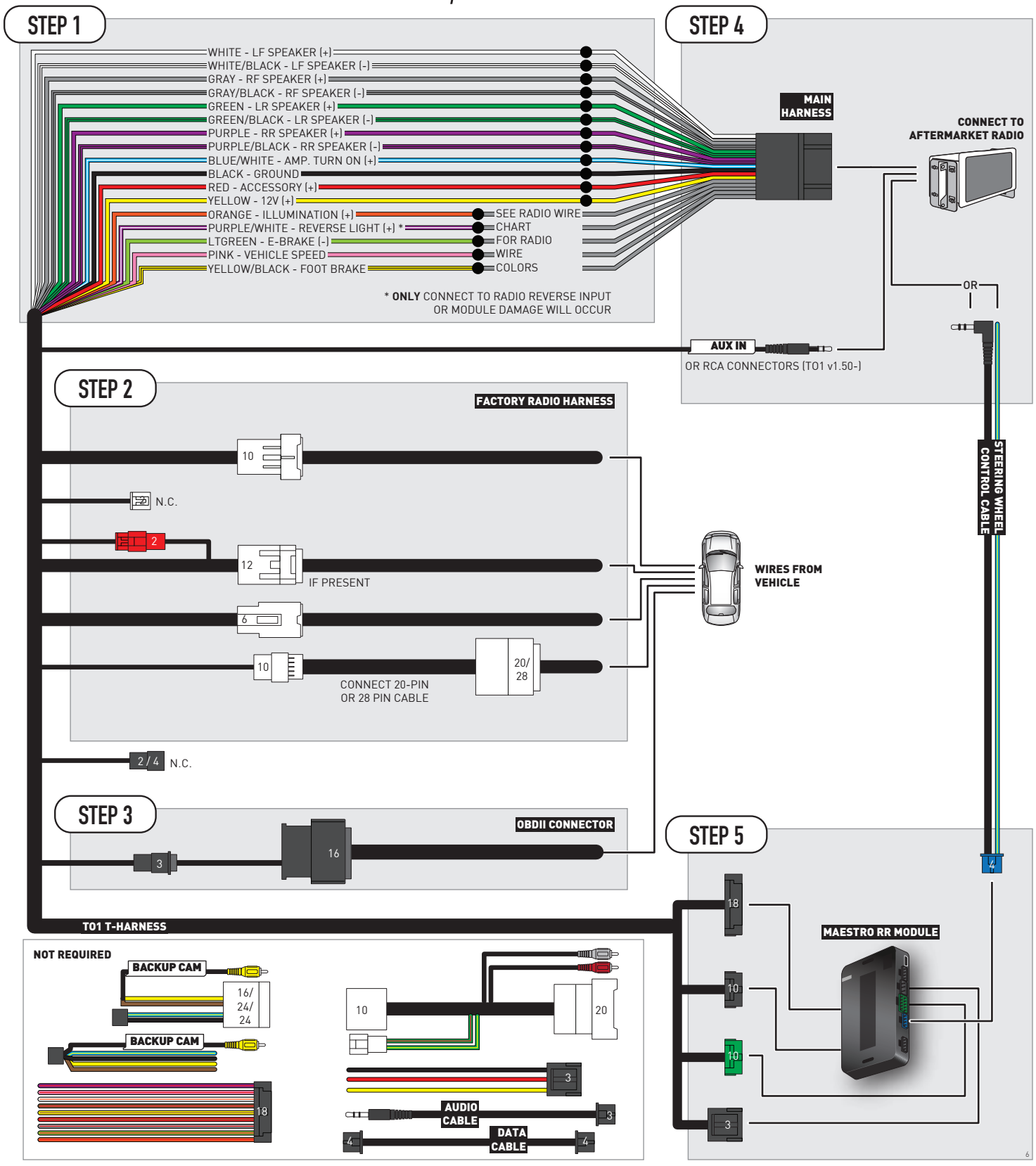
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2015
TOYOTA TACOMA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

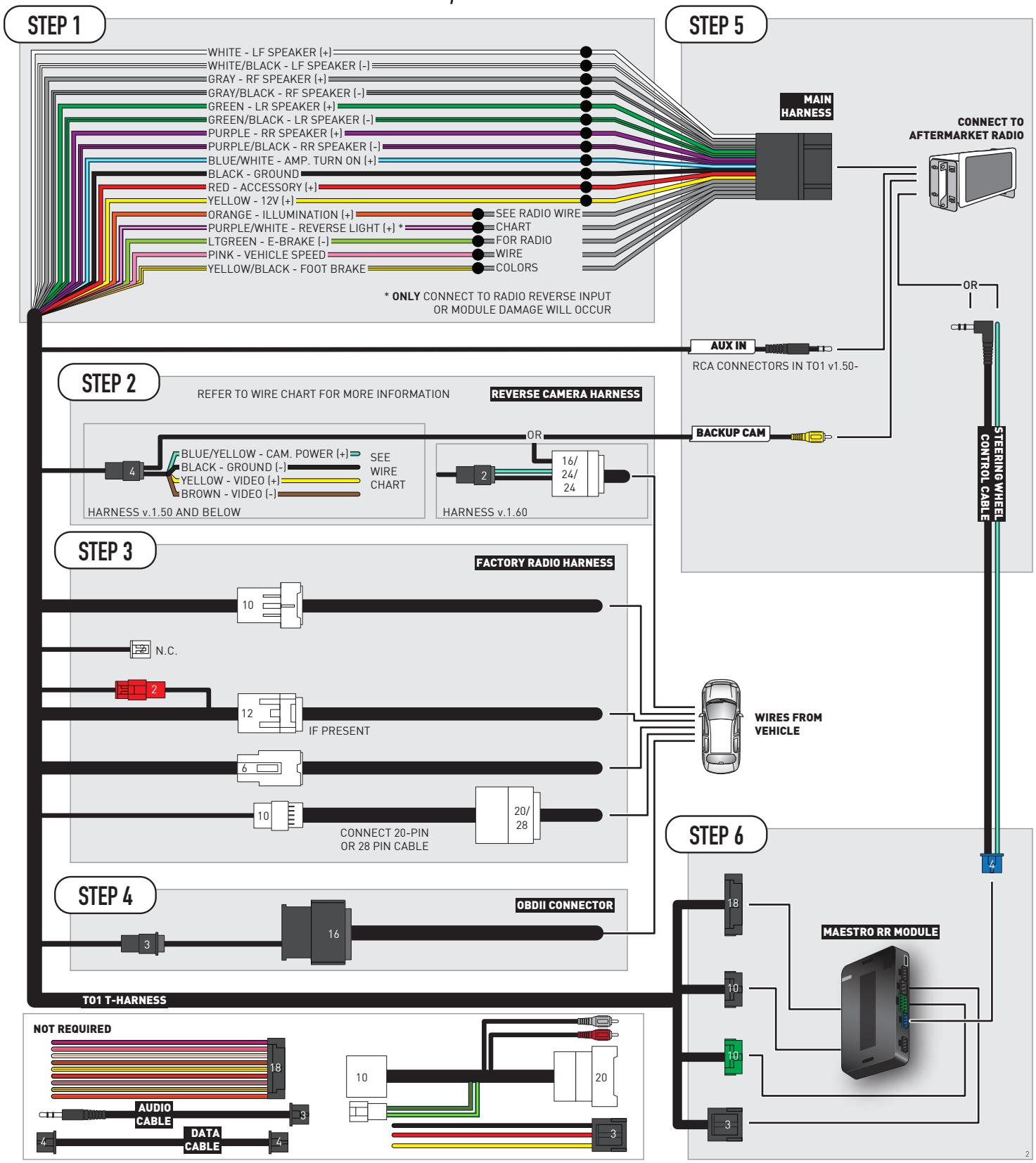
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

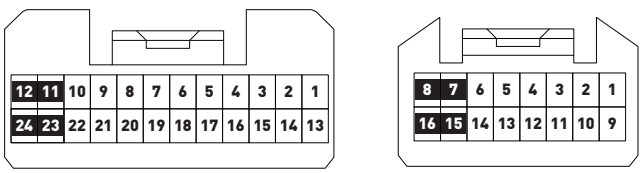
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2007-2013
TOYOTA TUNDRA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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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Congratulations on the purchase of your iDatalink Maestro RR Radio replacement solution. You are now a few simple steps away from enjoying your new car radio with enhanced features.

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

Automotive Data Solutions Inc. © 2023

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

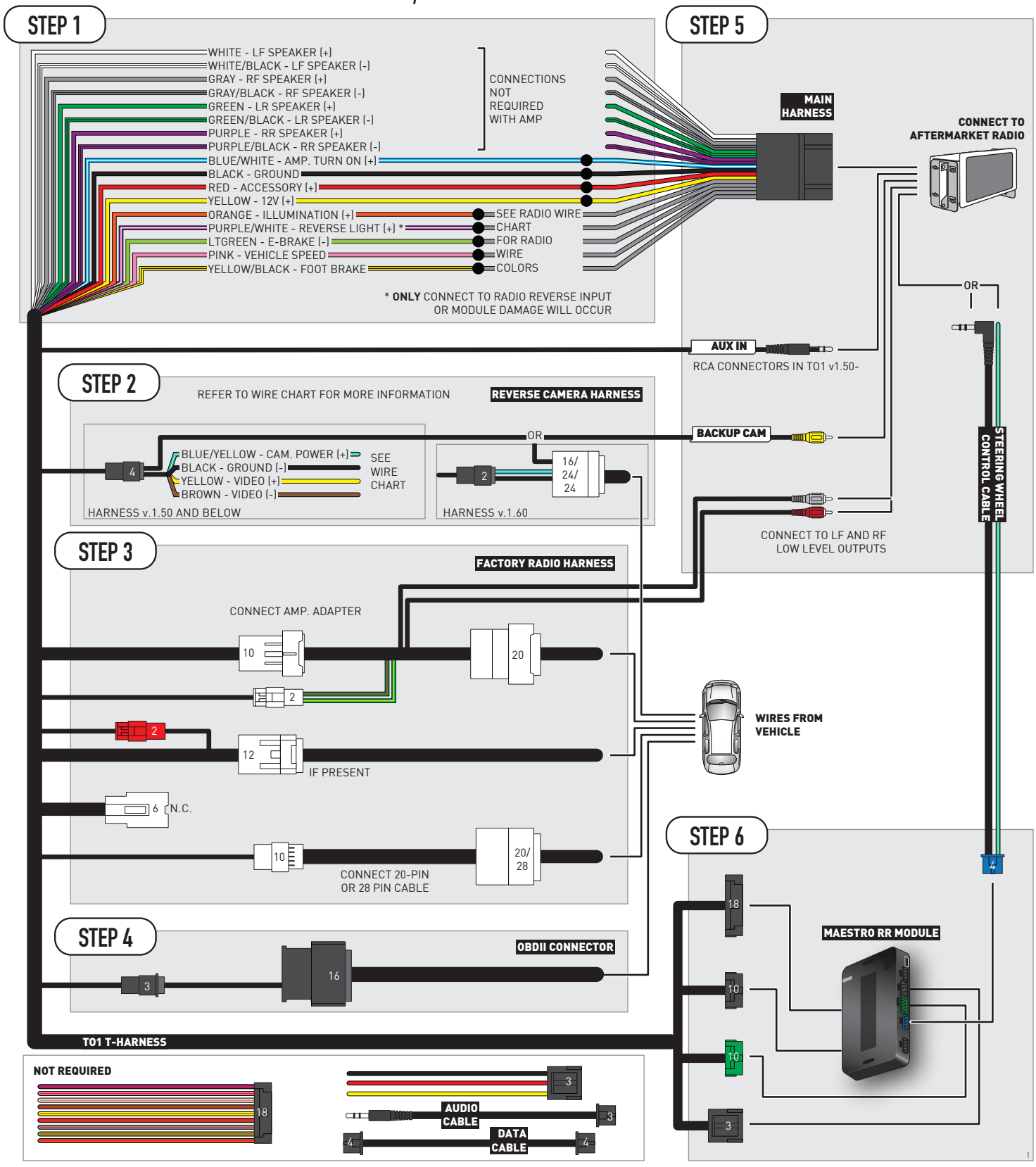
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

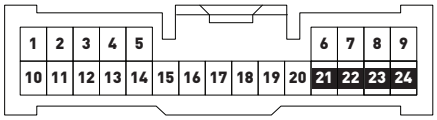
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	24	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	21	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	22	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	23	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
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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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2007-2013
TOYOTA TUNDRA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

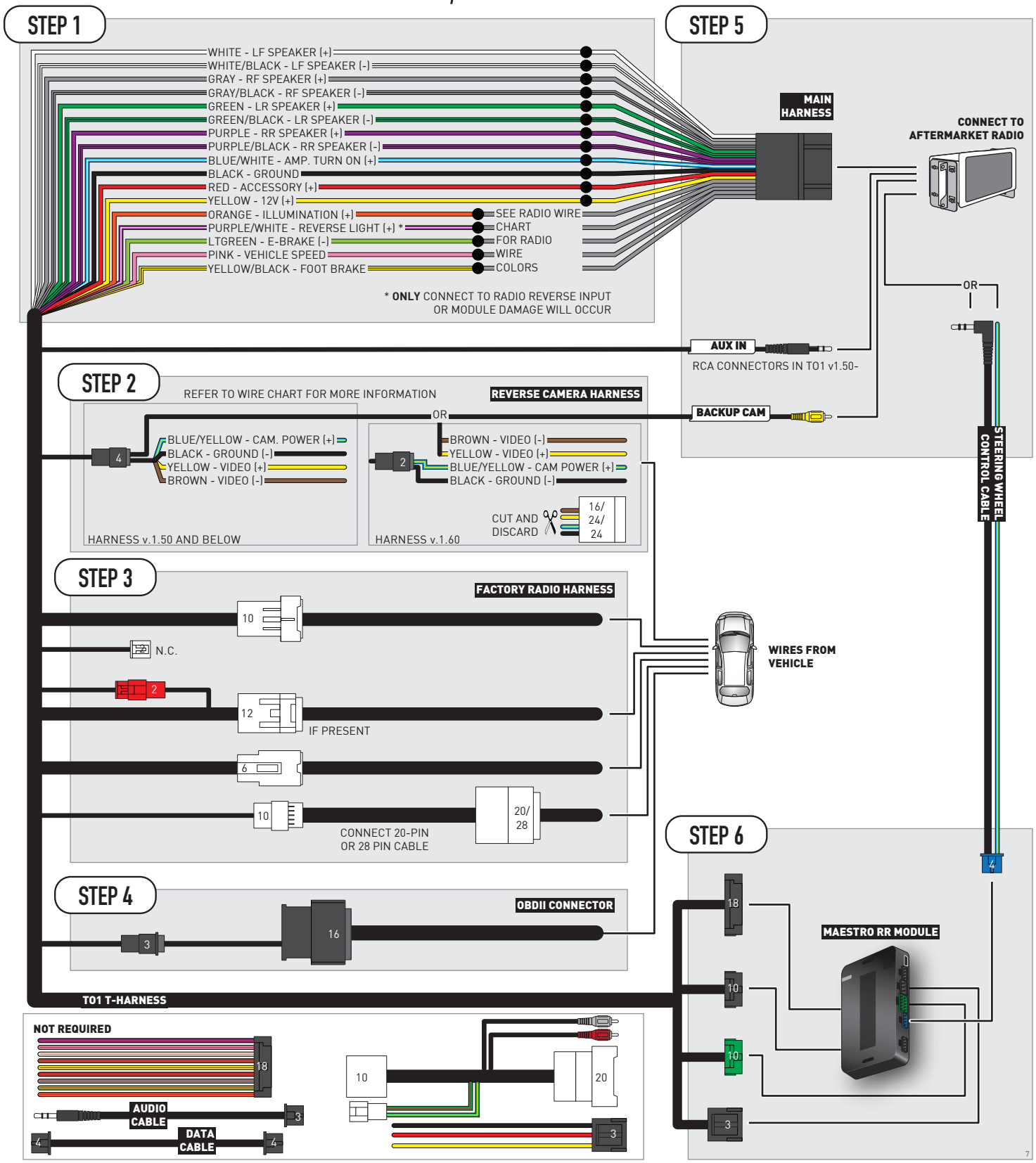
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

7

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

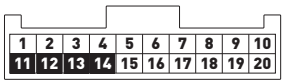
Description	Polarity	Maestro Steering Wheel Control wire	Radio with Steering Wheel Control Port	*Alpine Radio With SWI1, SWI2, Ground Wires	JVC or Kenwood	*Other Radio Brands With SWI1, SWI2, Ground Wires/ Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input 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.

VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	20 pin	13	Black	(+)	Reverse camera harness
Ground	~	~	20 pin	14	White	(-)	Reverse camera harness
Video +	~	~	20 pin	11	Red	(+)	Reverse camera harness
Video -	~	~	20 pin	12	Shield	(-)	Reverse camera harness

REVERSE CAMERA CONNECTOR (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2009-2012
TOYOTA VENZA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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.

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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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

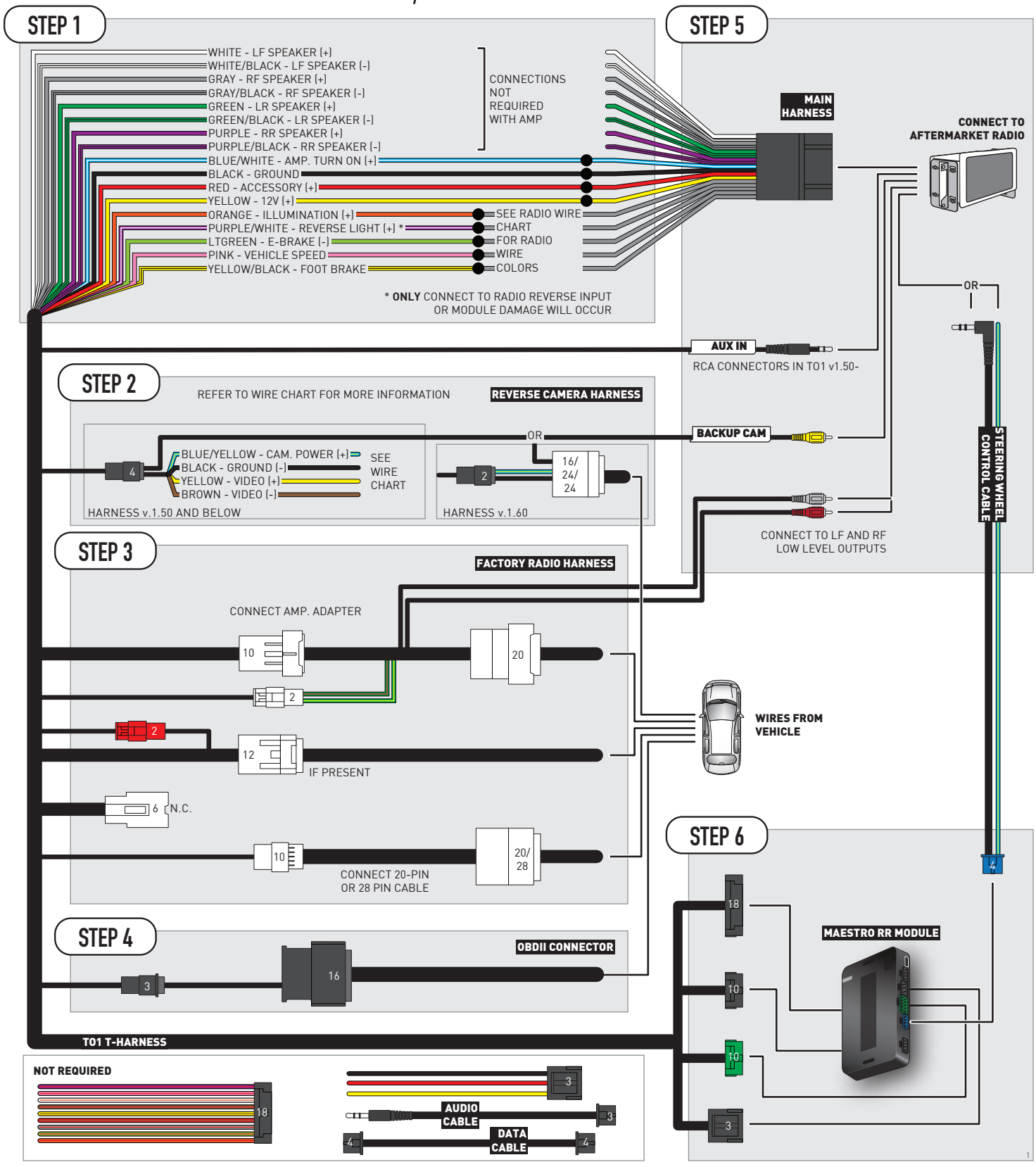
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the left front and right front low level outputs RCA cables into the aftermarket radio.
- 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.

1

WIRING DIAGRAM *with an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

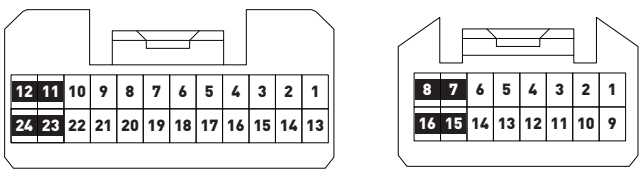
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).
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Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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INSTALL GUIDE

2013-2014
TOYOTA VENZA
WITH JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

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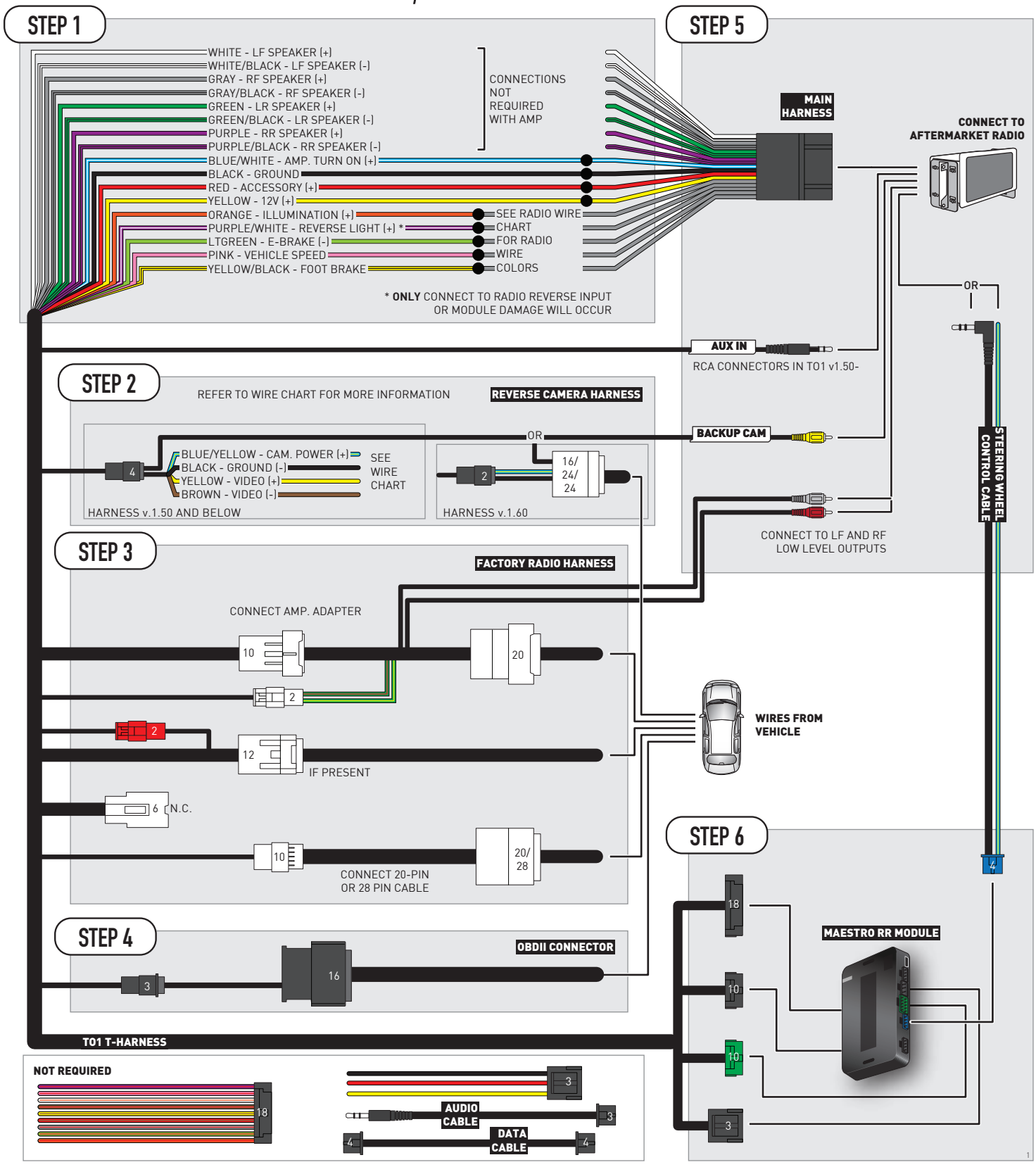
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1

WIRING DIAGRAM *with an Amplifier*



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

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.
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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)
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*Manually learn the buttons to the radio in the radio steering wheel control menu.

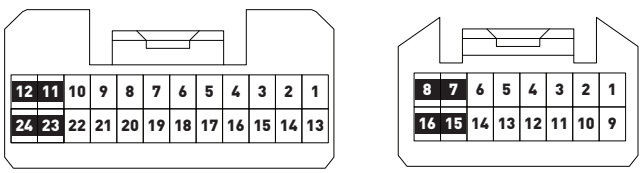
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Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
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TROUBLESHOOTING TABLE

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2009-2012
TOYOTA VENZA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

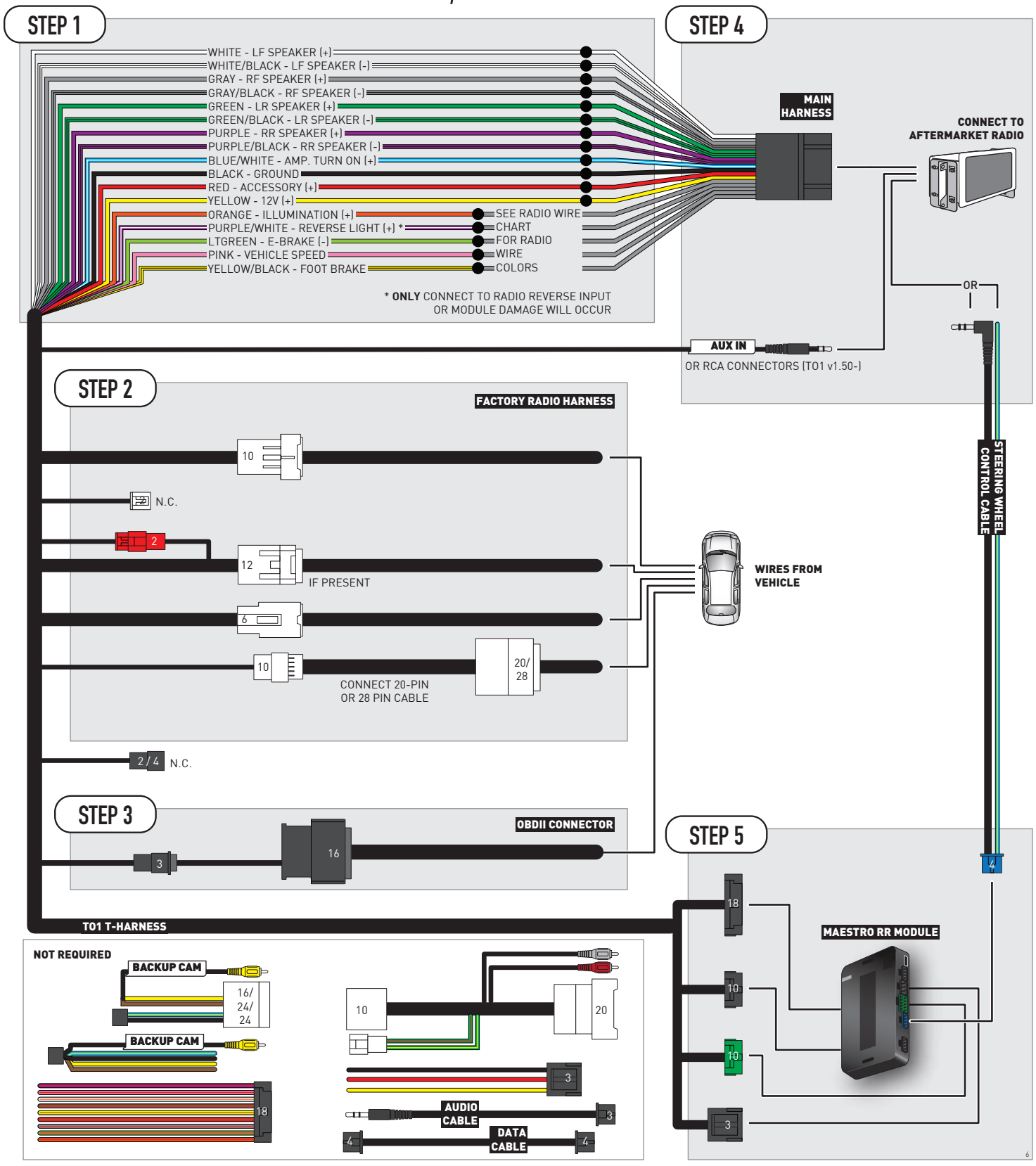
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2013-2014
TOYOTA VENZA
WITHOUT JBL

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

- If the vehicle is equipped with an OEM backup camera, connect the TO1 T-harness to the backup camera harness (see wiring diagram and wire chart for details).

STEP 3

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

STEP 4

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

STEP 5

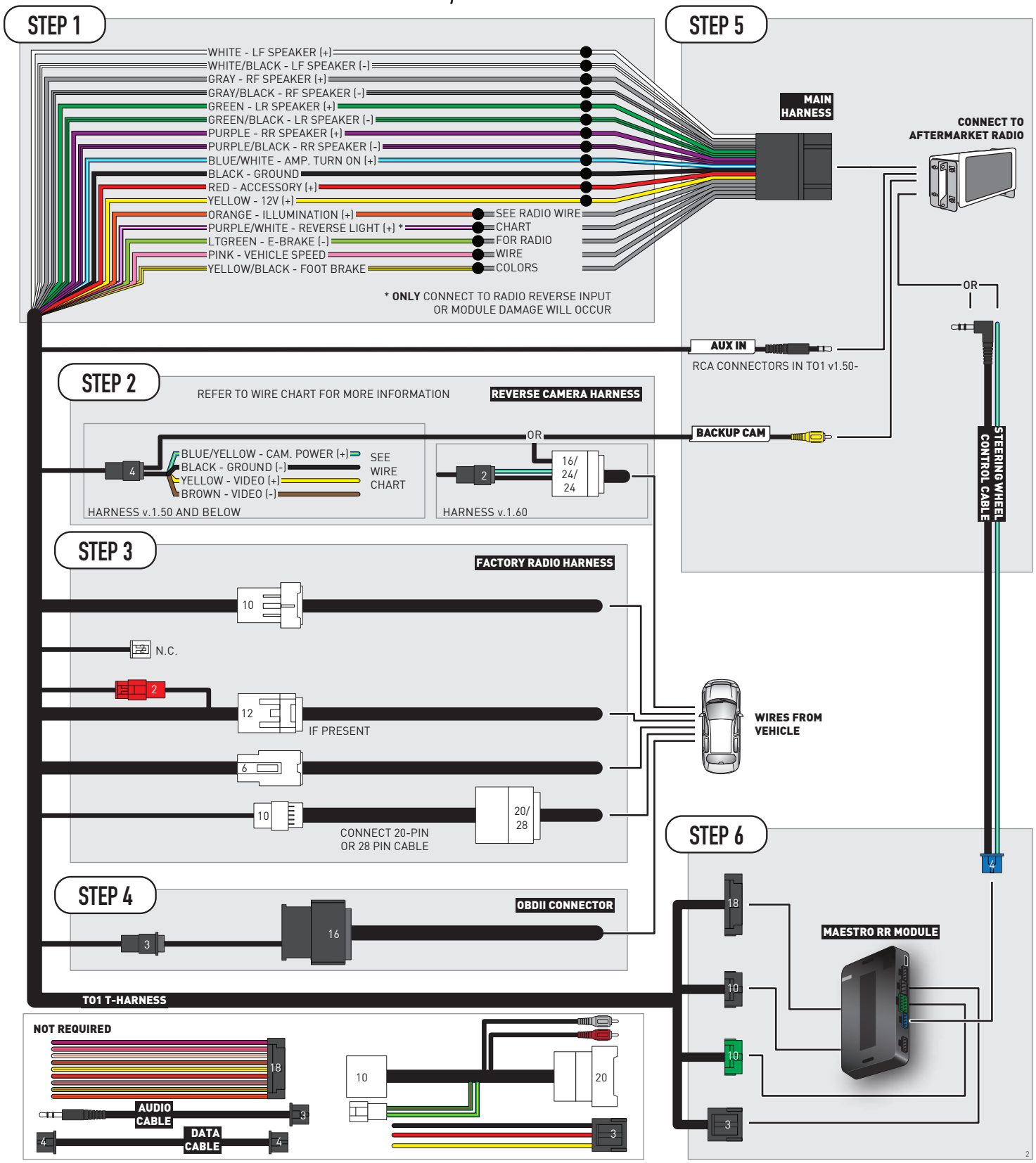
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the 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.

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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/ 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.

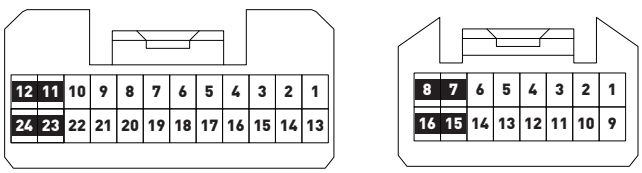
VEHICLE WIRE REFERENCE CHART

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	24 pin	11	Black	(+)	Reverse camera harness
Ground	~	~	24 pin	23	Shield	(-)	Reverse camera harness
Video +	~	~	24 pin	12	Red	(+)	Reverse camera harness
Video -	~	~	24 pin	24	White	(-)	Reverse camera harness

OR

Wire Description	Connector Name	Connector Color	Connector Type	Position	Wire Color	Polarity	Wire Location
Camera Power	~	~	16 pin	07	Black	(+)	Reverse camera harness
Ground	~	~	16 pin	15	Shield	(-)	Reverse camera harness
Video +	~	~	16 pin	08	Red	(+)	Reverse camera harness
Video -	~	~	16 pin	16	White	(-)	Reverse camera harness

REVERSE CAMERA CONNECTORS (WIRE SIDE)



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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2007-2011
TOYOTA YARIS

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-RR-AS

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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

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

Automotive Data Solutions Inc. © 2023

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

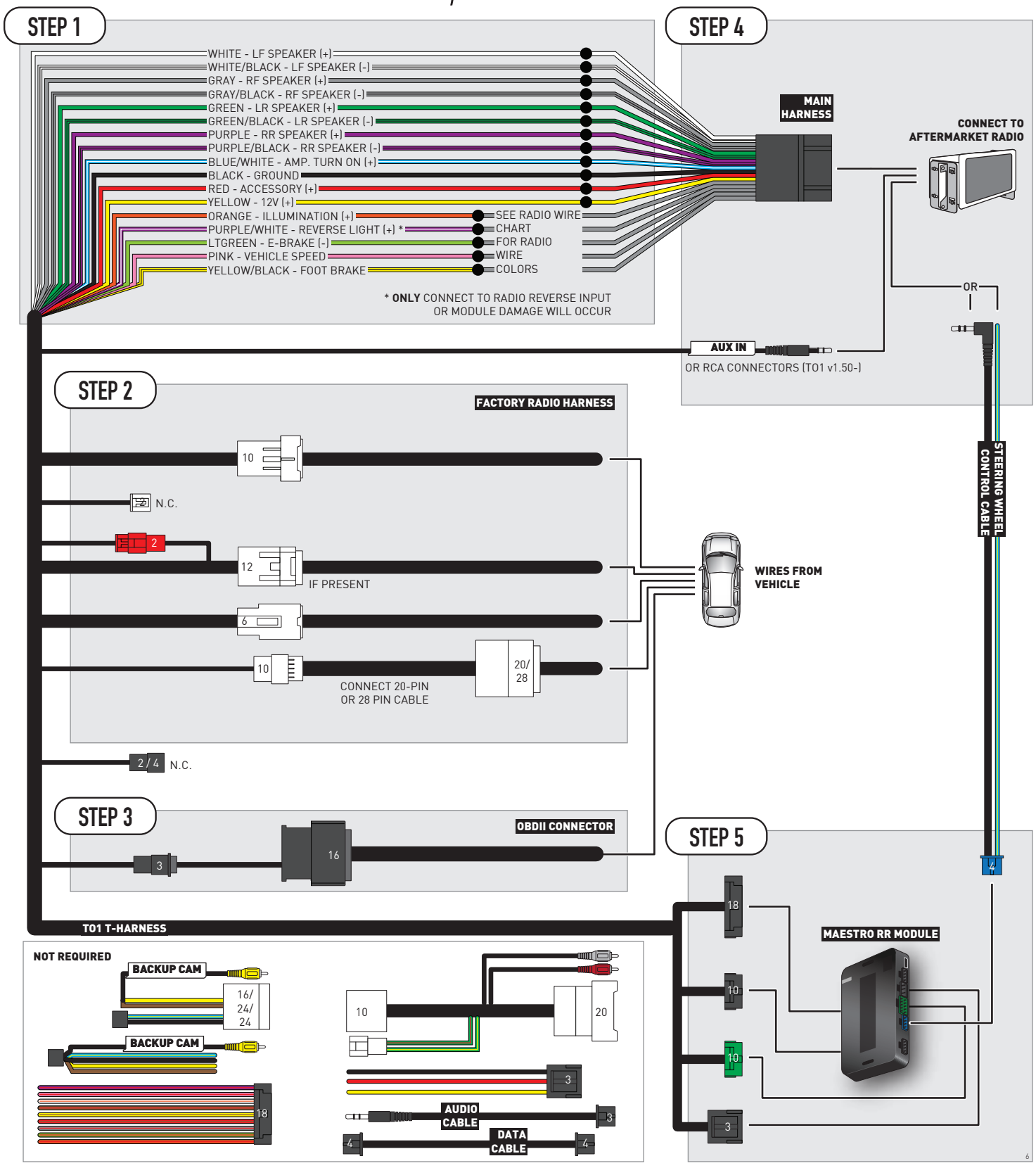
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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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Email: maestro.support@idatalink.com

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INSTALL GUIDE

2012-2018
TOYOTA YARIS

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER, AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro RR-TO1 Installation Harness

PROGRAMMED FIRMWARE: TO1-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

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

- Unbox the aftermarket radio and locate its main harness.
- Connect the wires shown on the next page from aftermarket radio main harness to the TO1 T-harness and match the wire functions.
- Remove the factory radio.

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

STEP 2

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

STEP 3

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

STEP 4

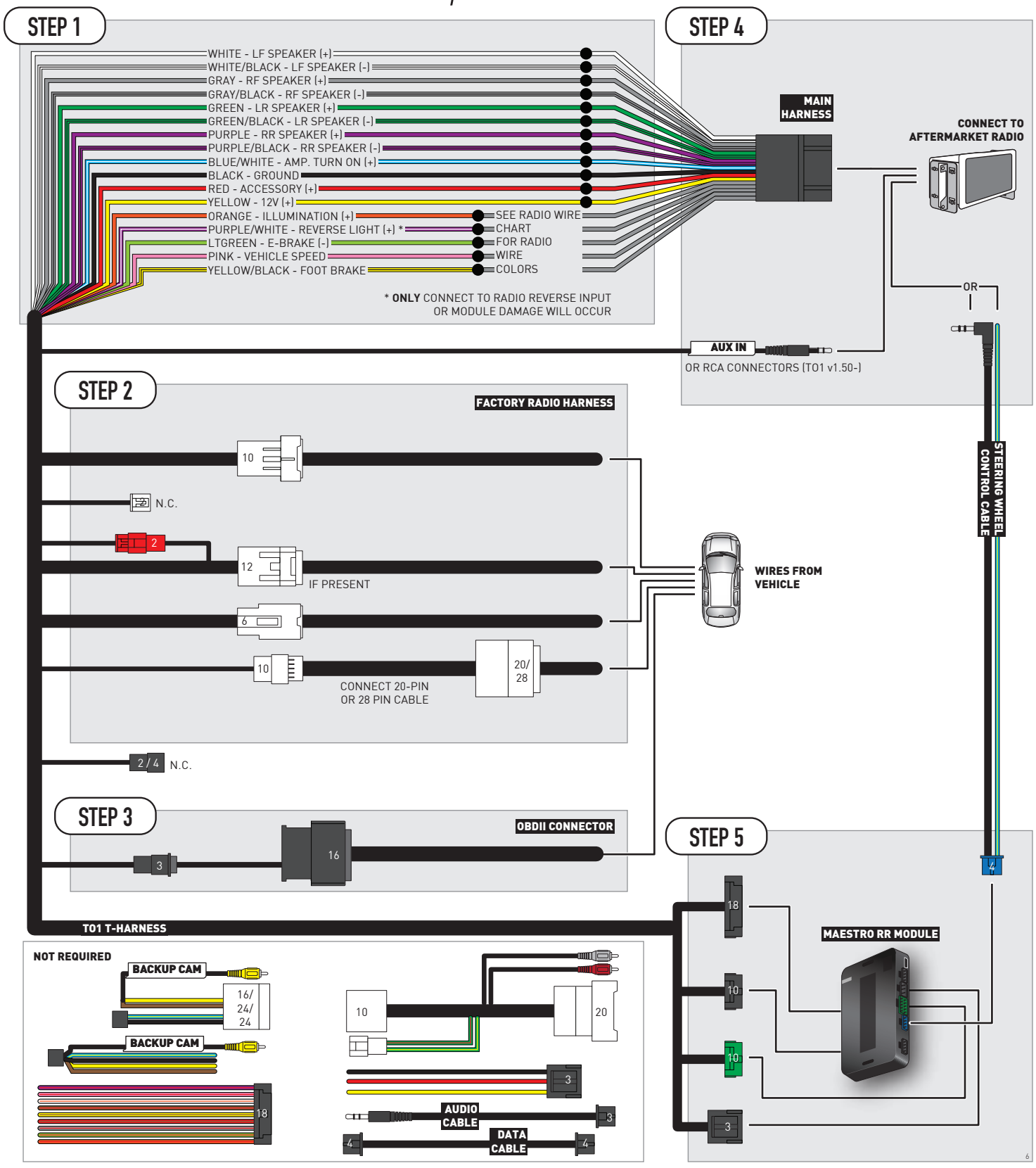
- Plug the aftermarket radio harnesses into the aftermarket radio.
- Connect the AUX cable(s) into the aftermarket radio (if equipped).
- Connect the steering wheel control cable to the aftermarket radio. Connect either the blue/yellow wire (Kenwood/JVC or radios with SWI/KEY wires) or the 3.5mm to the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

STEP 5

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

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WIRING DIAGRAM *without an Amplifier*



RADIO WIRE REFERENCE CHART

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
Foot Brake	(+)	Yellow/Black	Yellow/Black	N/A	N/A	N/A
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Other brands, refer to aftermarker radio guide. Some radios may not be equipped with all wires listed.

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

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/ 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.

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.
The steering wheel controls are not working, the Maestro RR does not blink when they are pressed.	Ensure the 20 or 28-pin connector is plugged to the vehicle and to the T01 T-harness, as shown in step 3 (this is where the RR gets the steering wheel signal from the vehicle).
(Prius only) After the car is turned off, the radio stays on. The car stays in accessory mode and will not turn off.	Locate the white 12-pin connector of the T01 harness, it is connected to the vehicle harness. Then, cut and isolate the red wire located at pin 11. The radio will shut off when the vehicle is turned off.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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