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

2008-2014
FORD ECONOLINE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

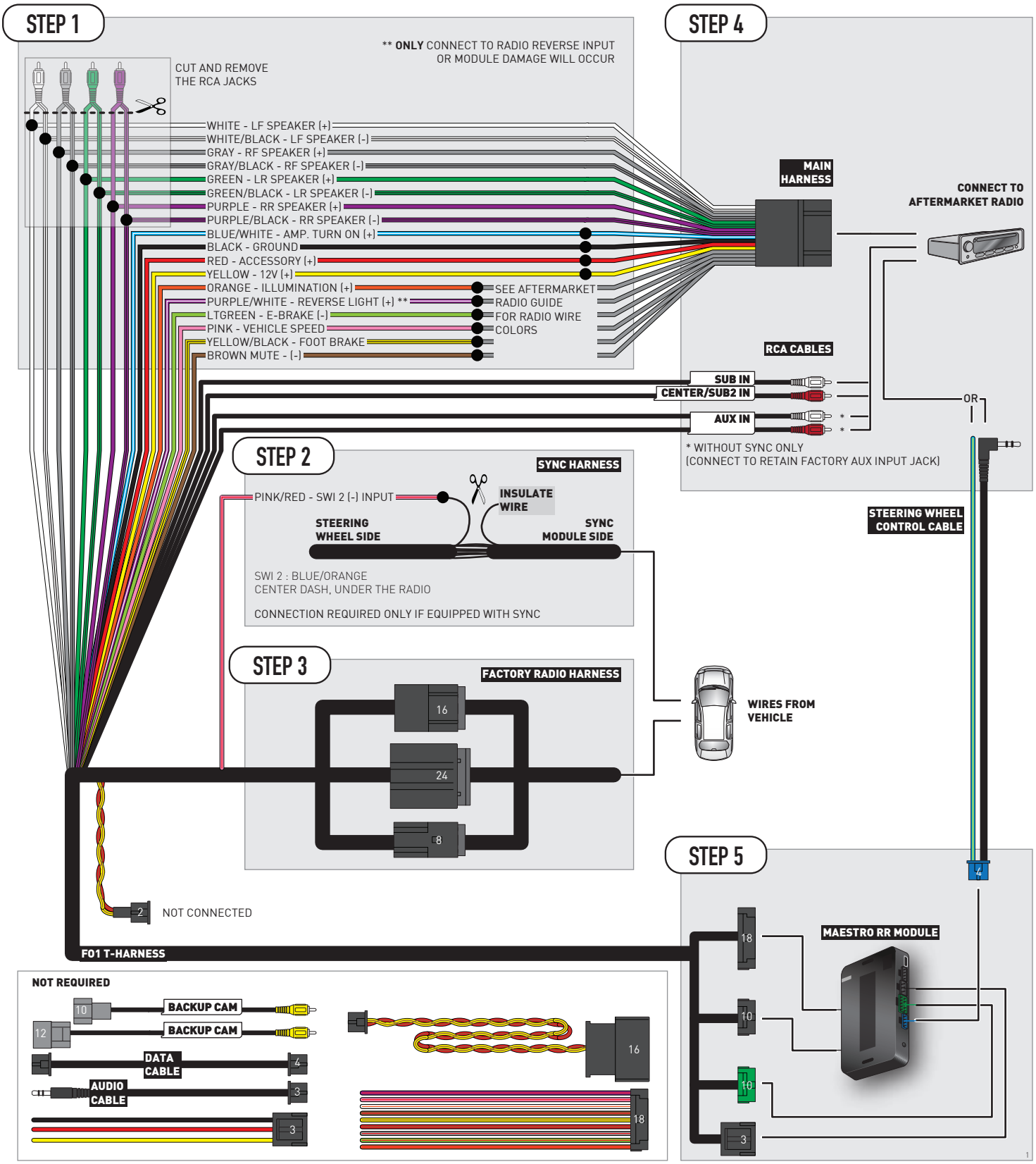
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD EDGE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

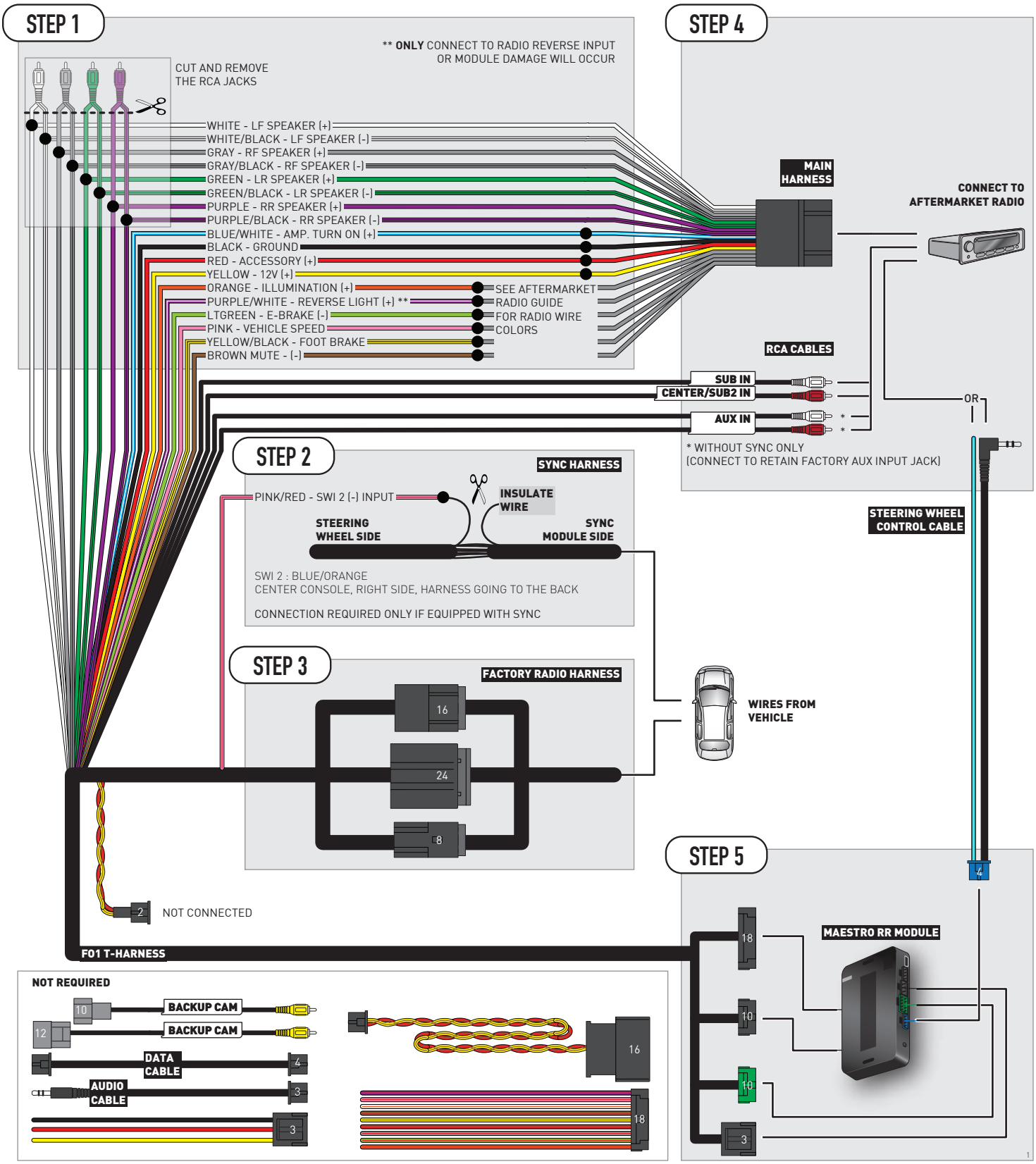
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD ESCAPE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-RR-AS

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WELCOME

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

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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- Unbox the aftermarket radio and locate its main harness.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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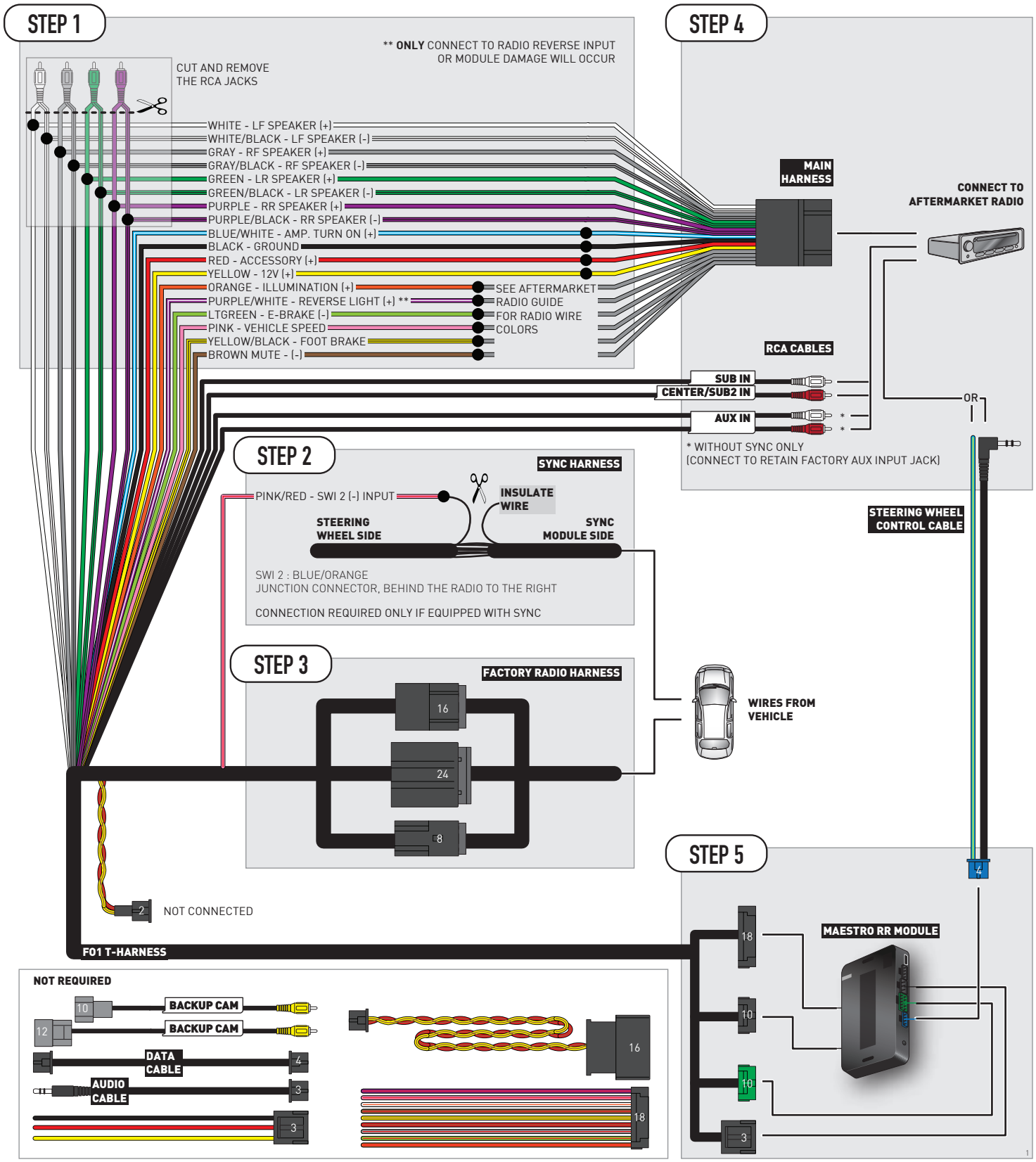
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2007-2014
FORD EXPEDITION

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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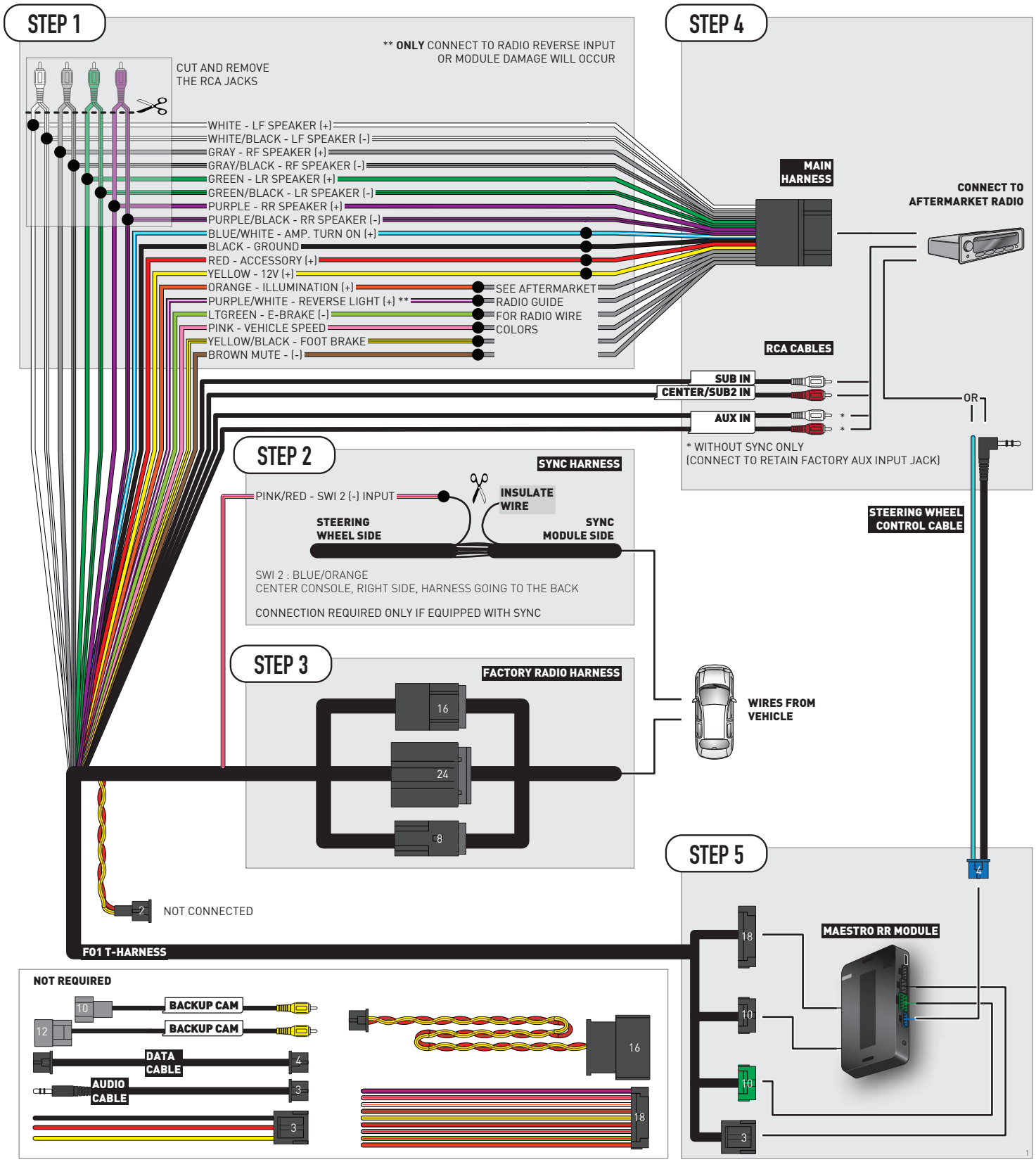
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2006-2010
FORD EXPLORER

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.

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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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

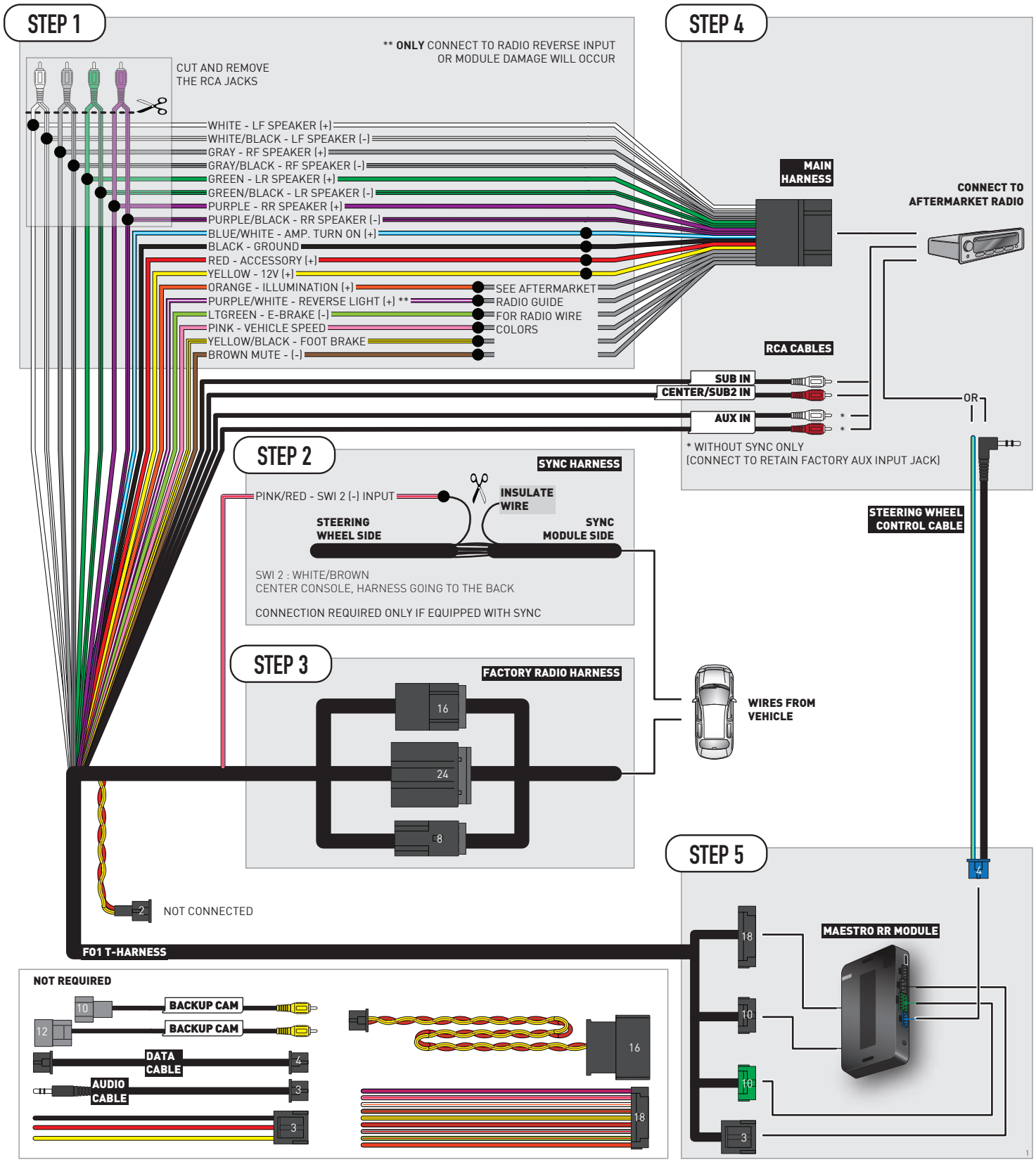
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
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No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2006-2010
FORD EXPLORER SPORT TRAC

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

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iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

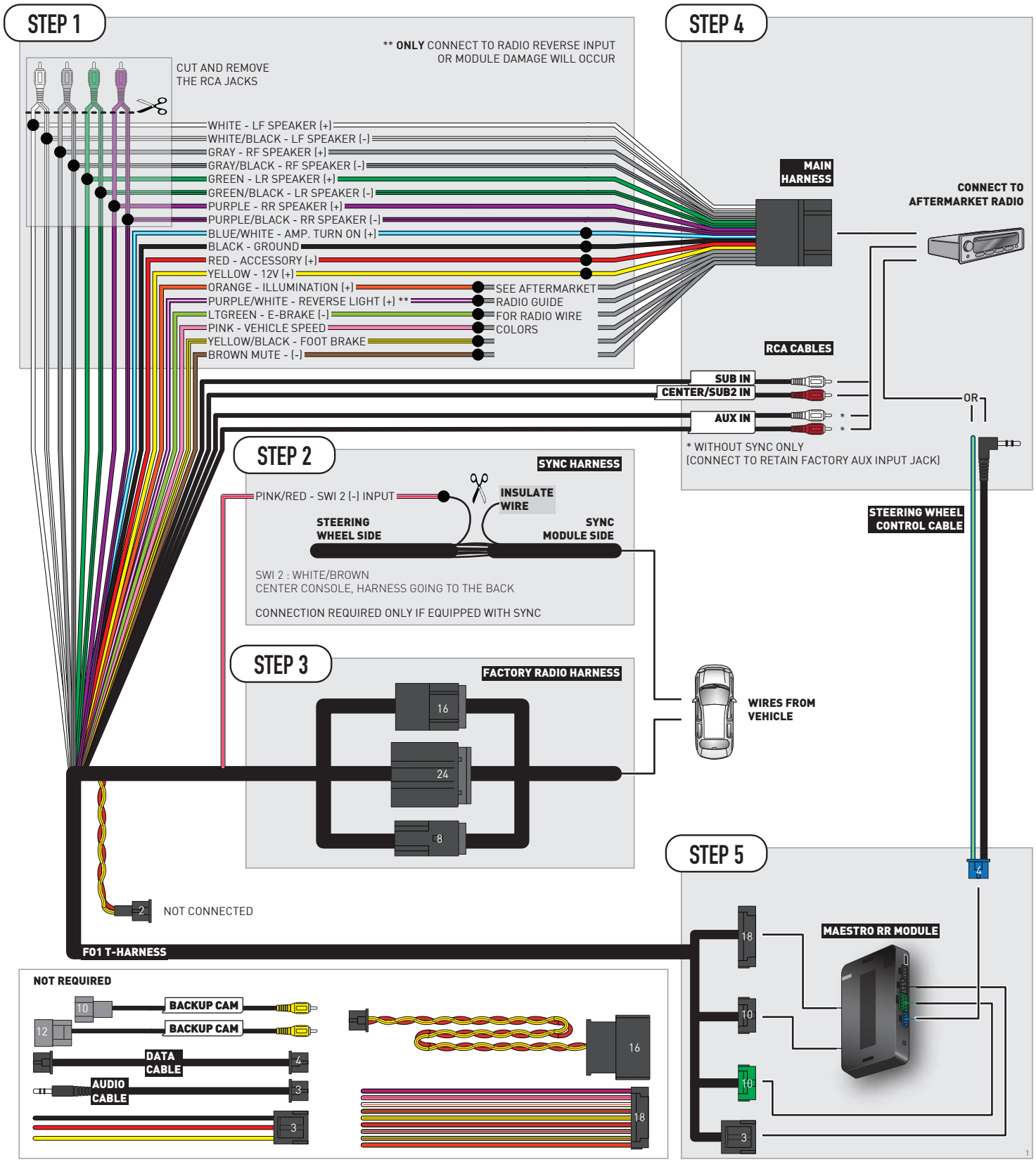
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2008-2010
FORD F-SERIES SUPER DUTY

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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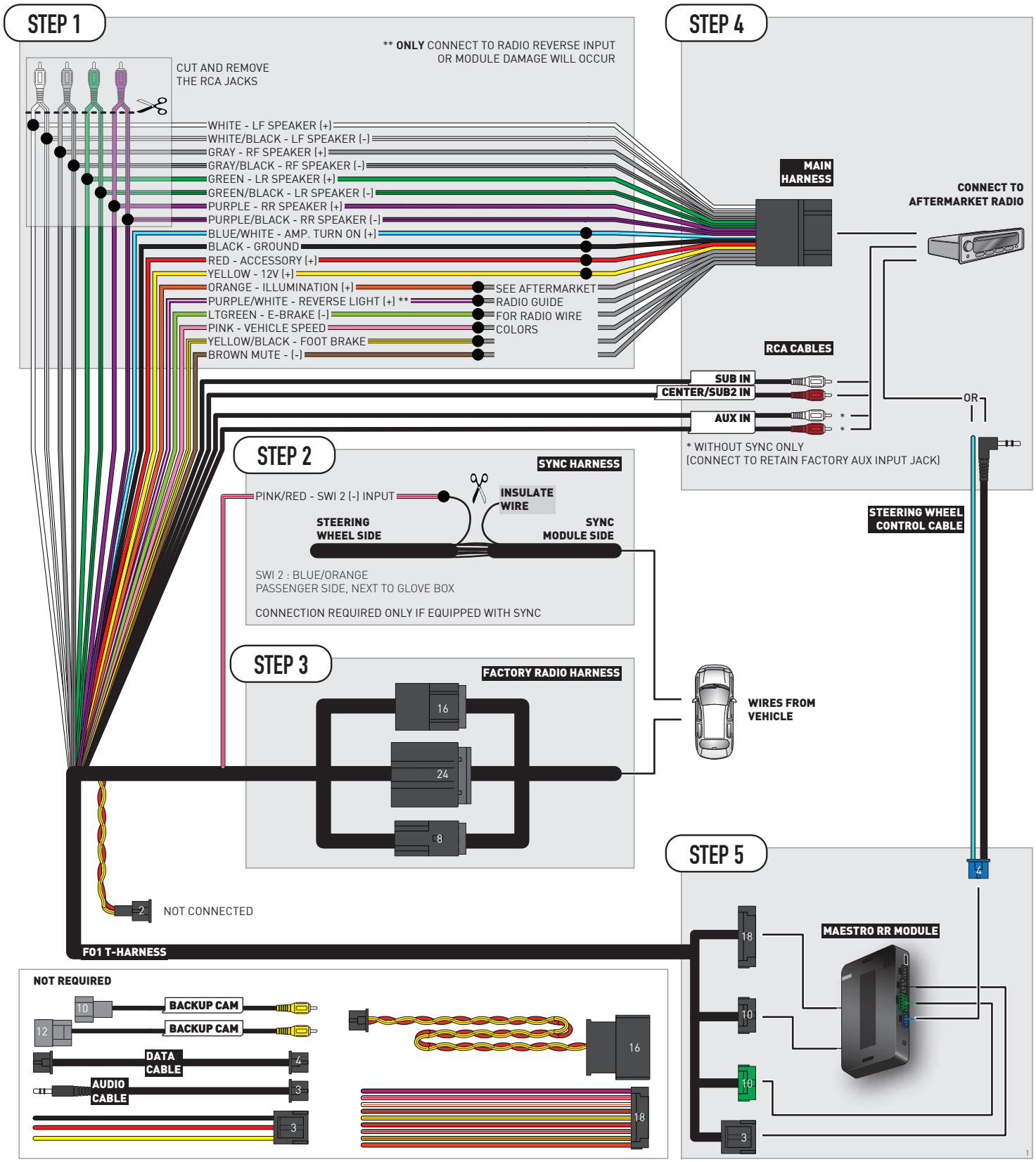
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD F-SERIES SUPER DUTY
WITH NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory backup camera harness to the F01 10-pin backup camera cable.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Connect the backup cam cable into the aftermarket radio.
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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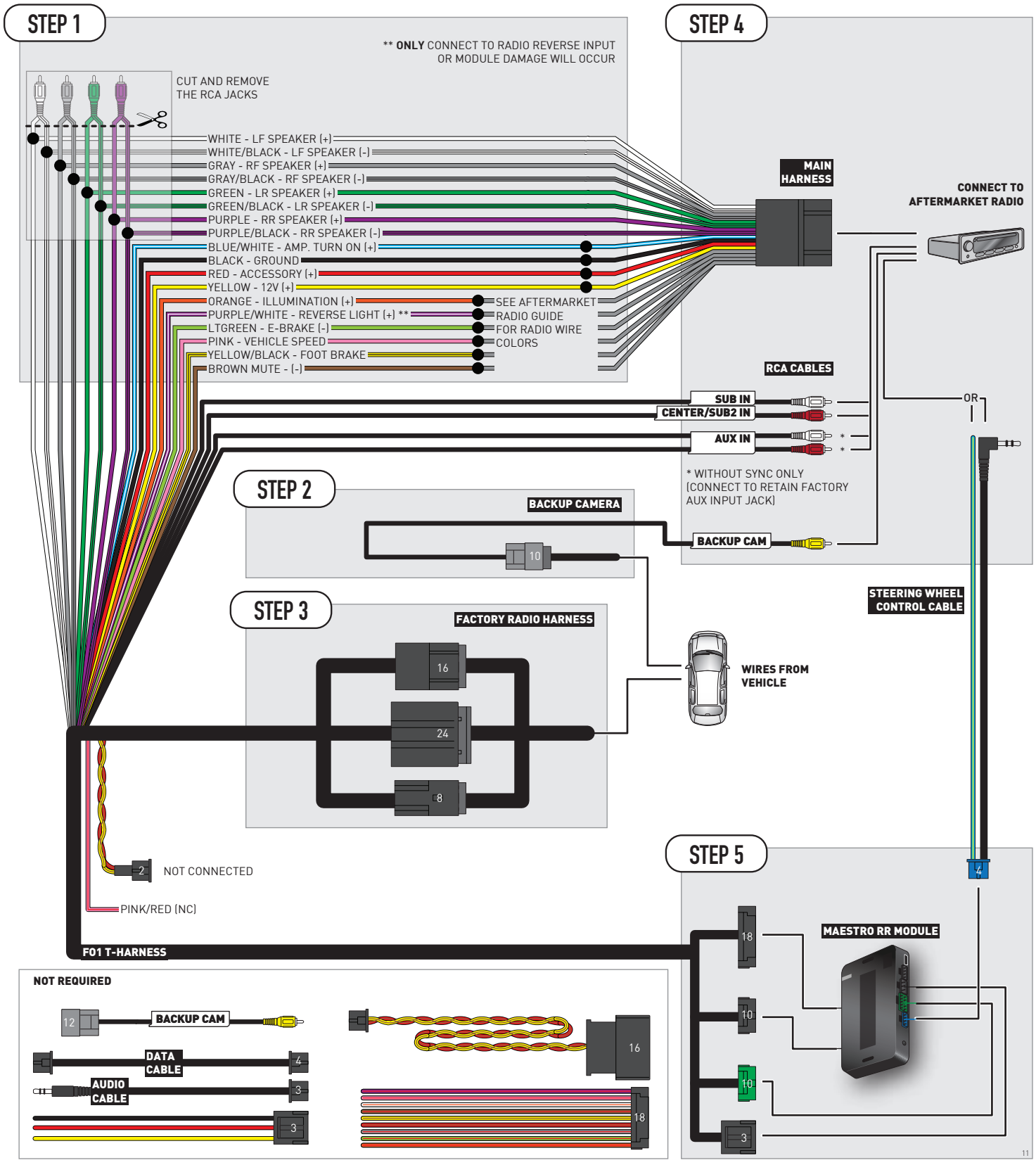
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD F-SERIES SUPER DUTY
WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 3

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 4

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

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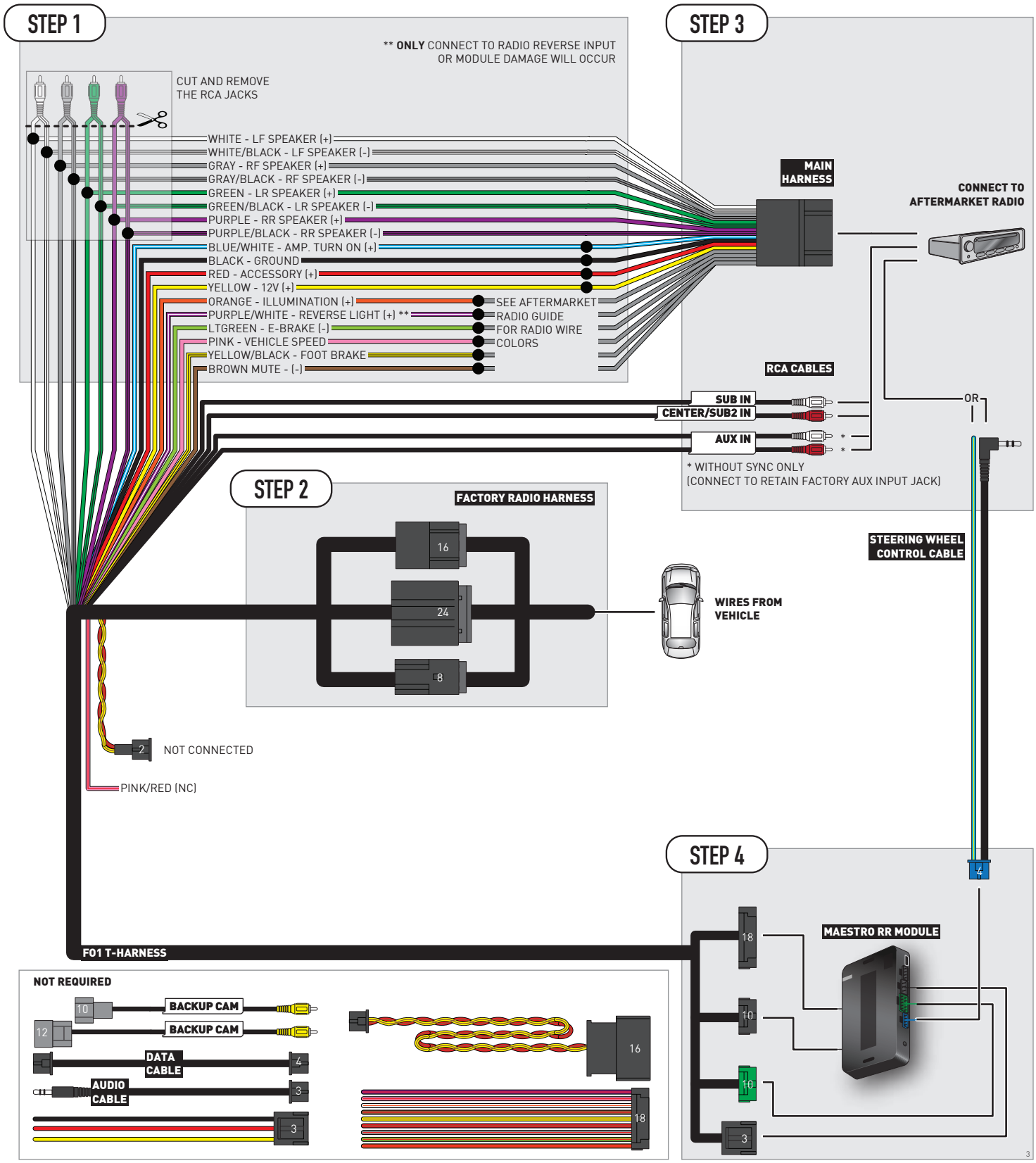
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD F150
WITH NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory backup camera harness to the F01 12 pin backup camera cable.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Connect the backup cam cable into the aftermarket radio.
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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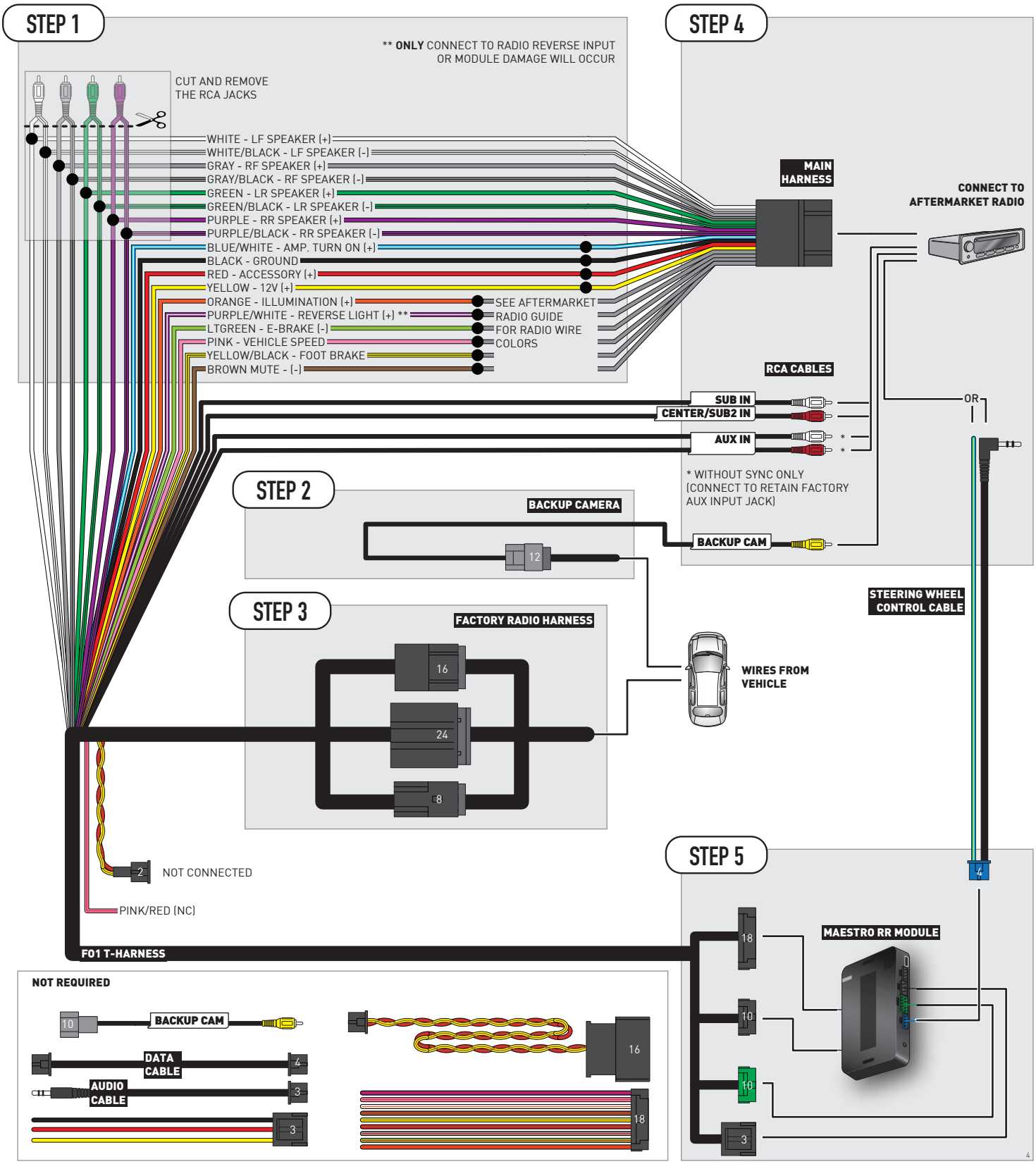
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2009-2010
FORD F150
WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

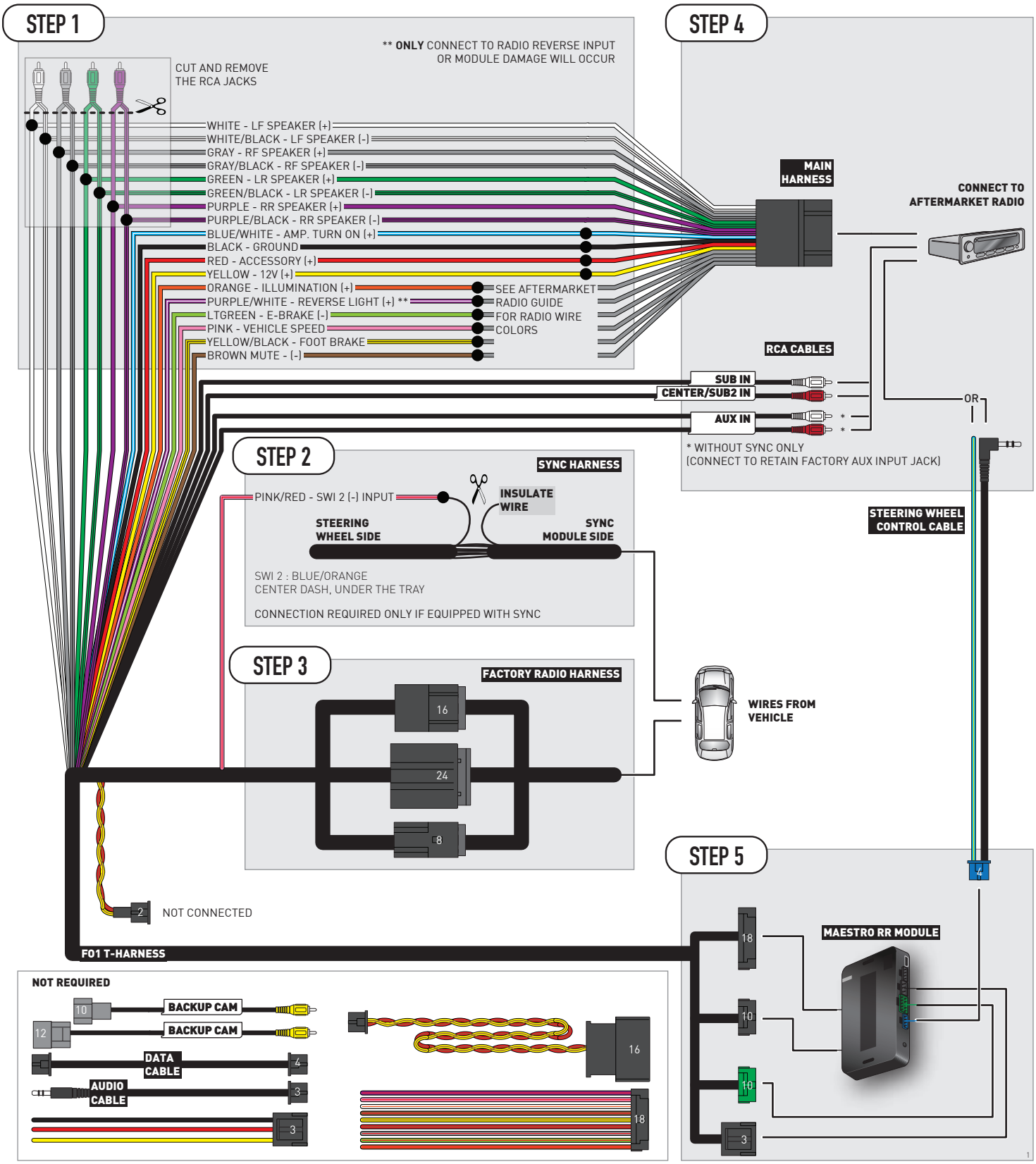
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD F150
WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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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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

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- Unbox the aftermarket radio and locate its main harness.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 3

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 4

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

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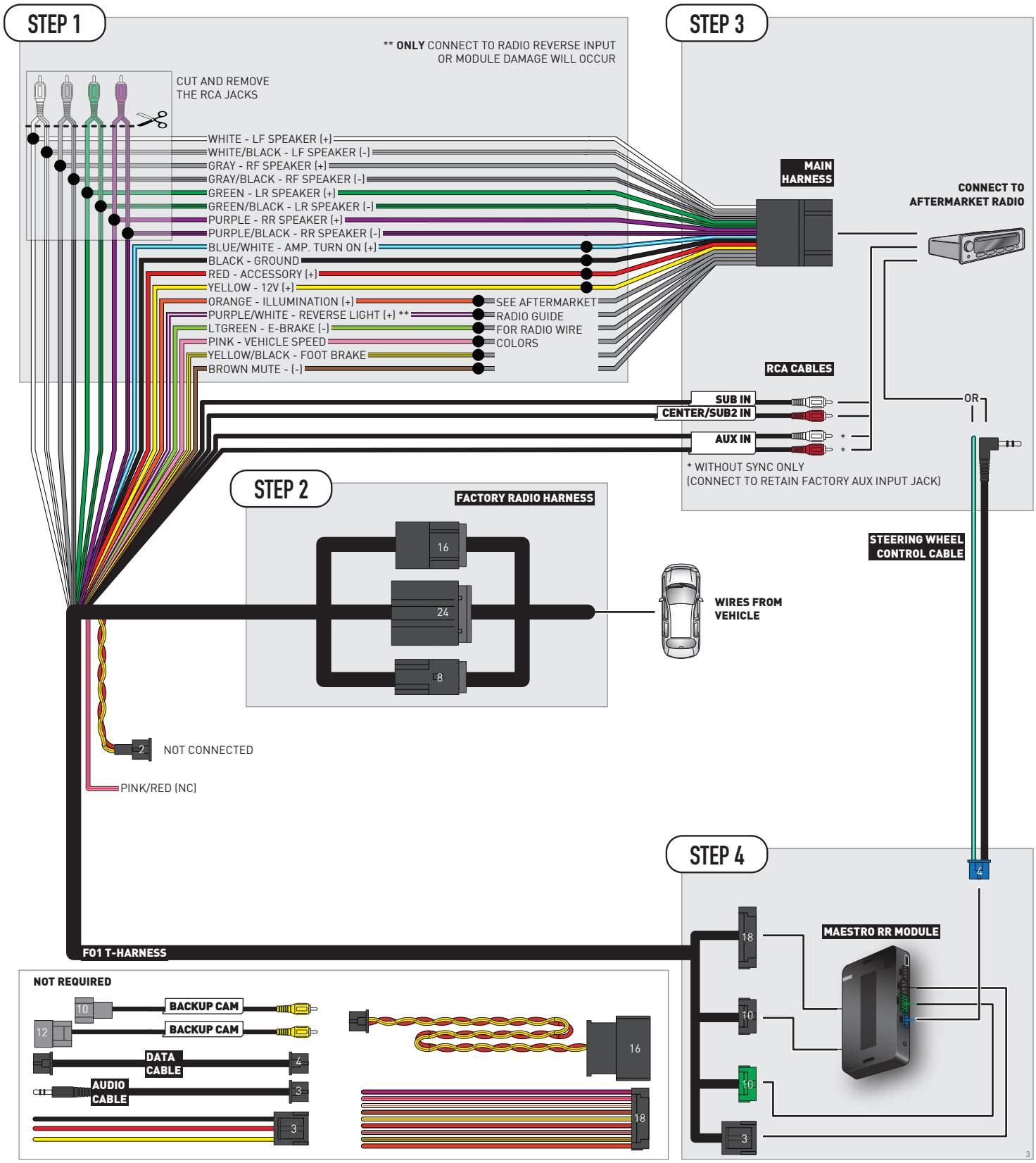
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2006-2007
FORD FIVE HUNDRED

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 3

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 4

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

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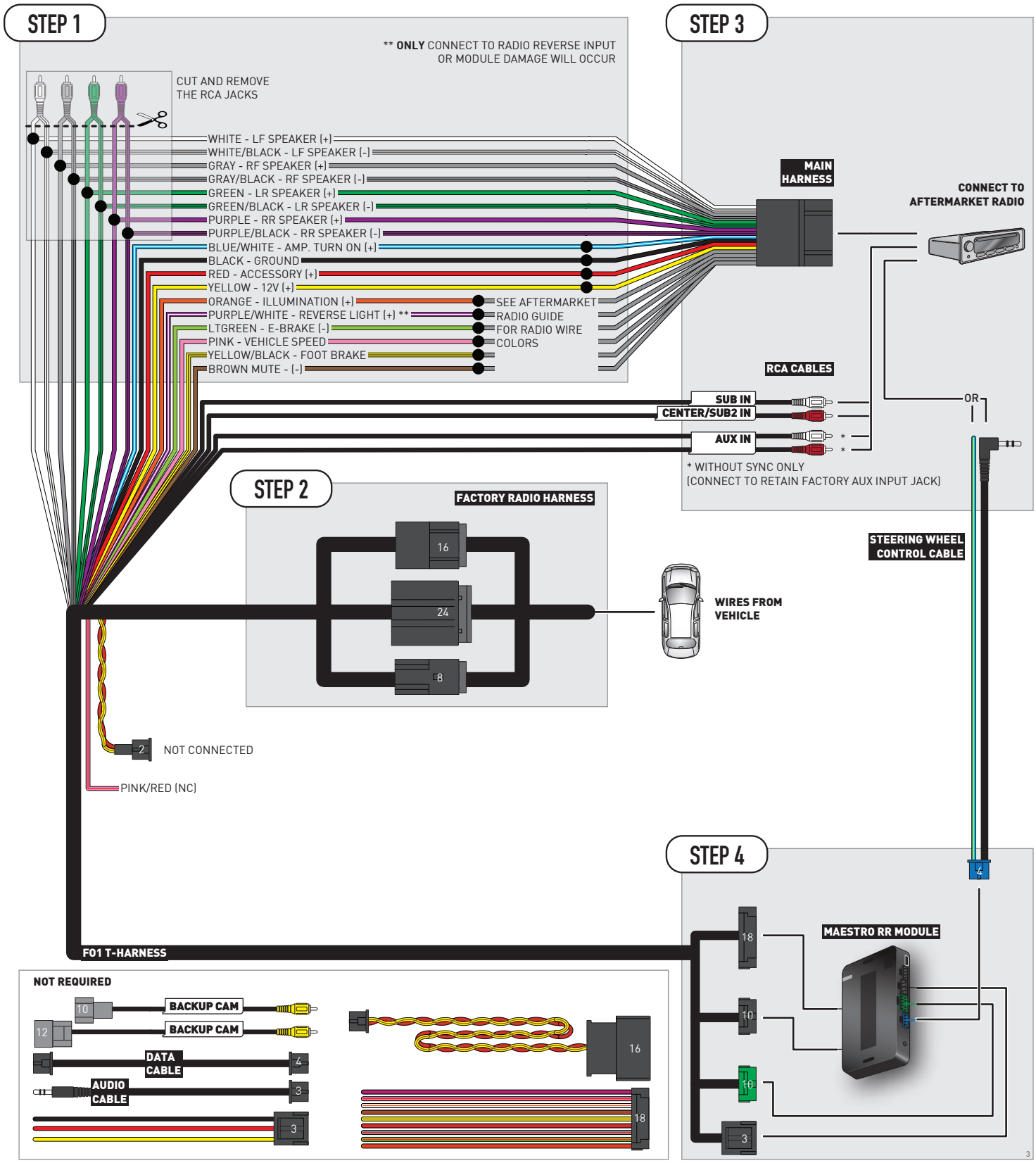
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD FLEX
WITH NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory backup camera harness to the F01 10 pin backup camera cable.

STEP 4

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 5

- Plug the aftermarket radio harnesses 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).
- Connect the backup cam cable into the aftermarket radio.
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 6

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

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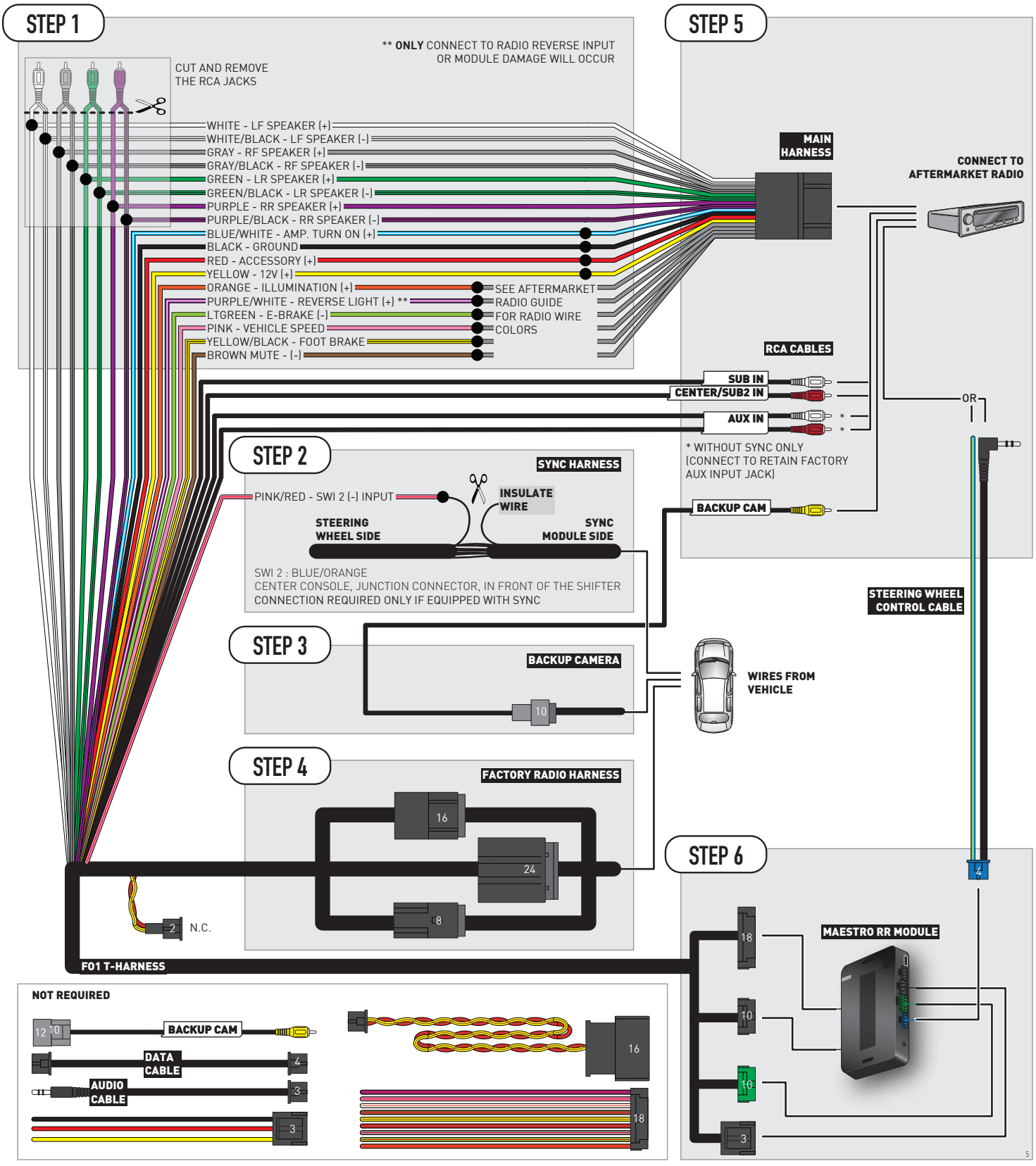
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD FLEX
WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

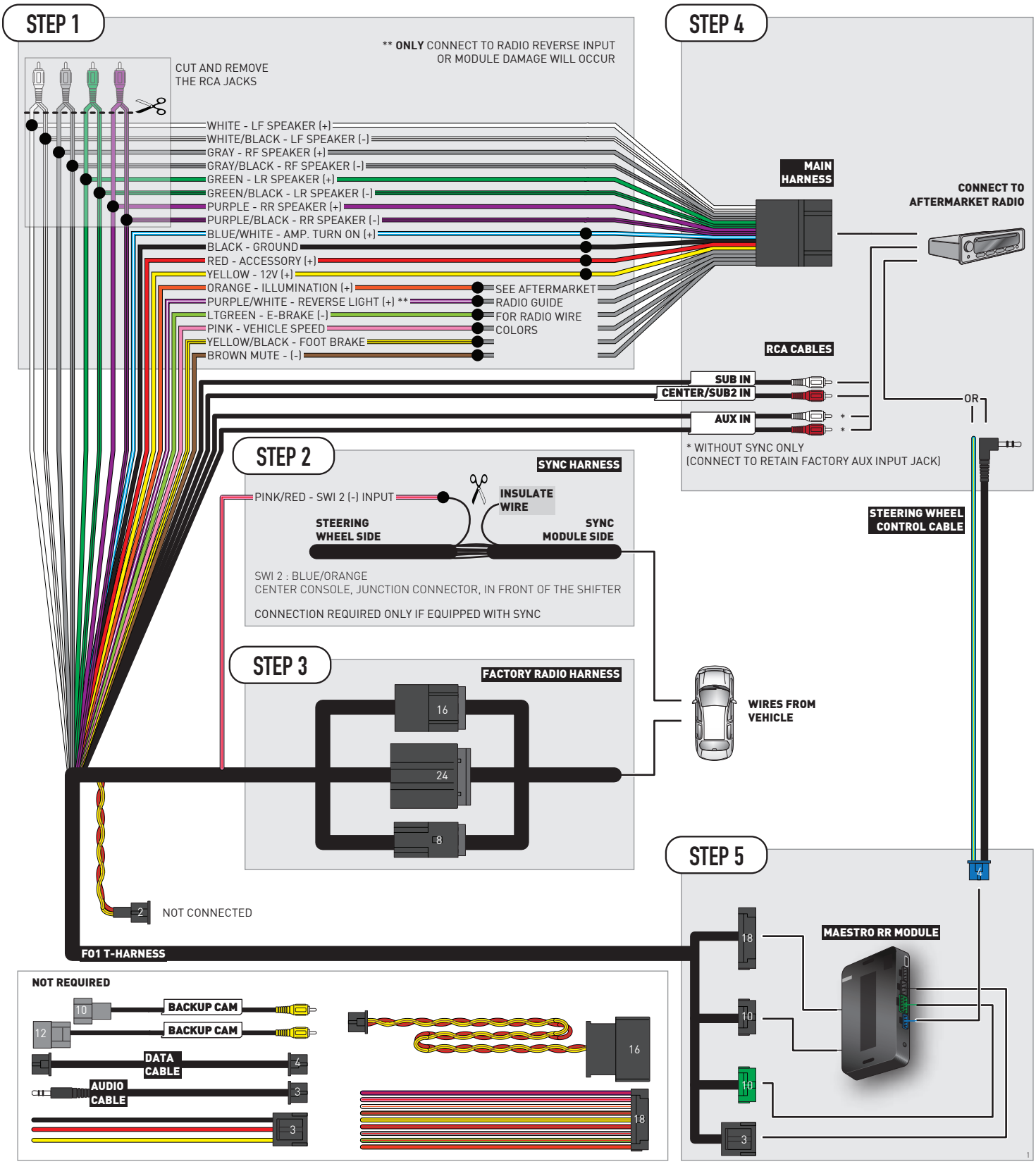
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2008-2011
FORD FOCUS

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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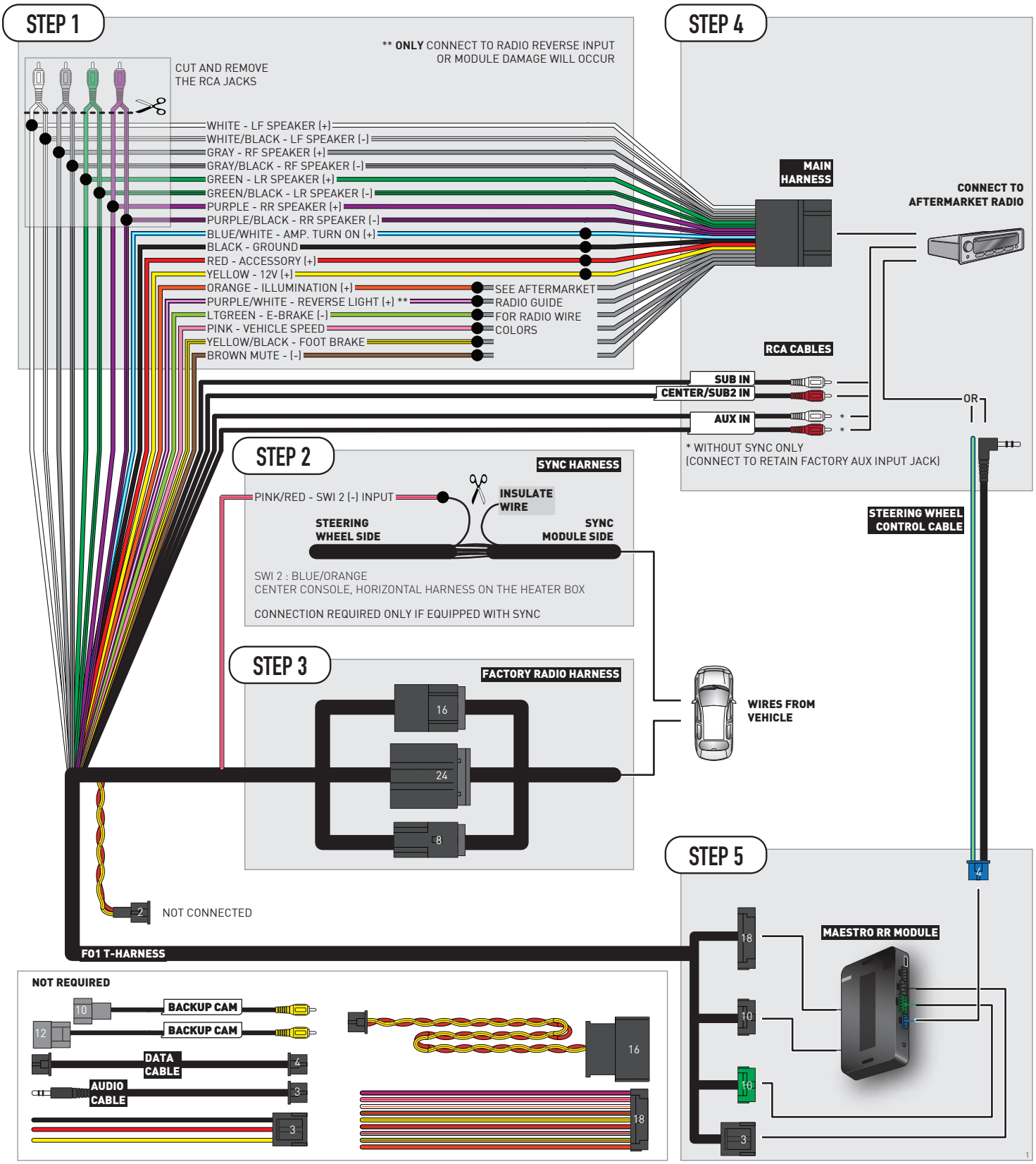
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2006-2009
FORD FUSION

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

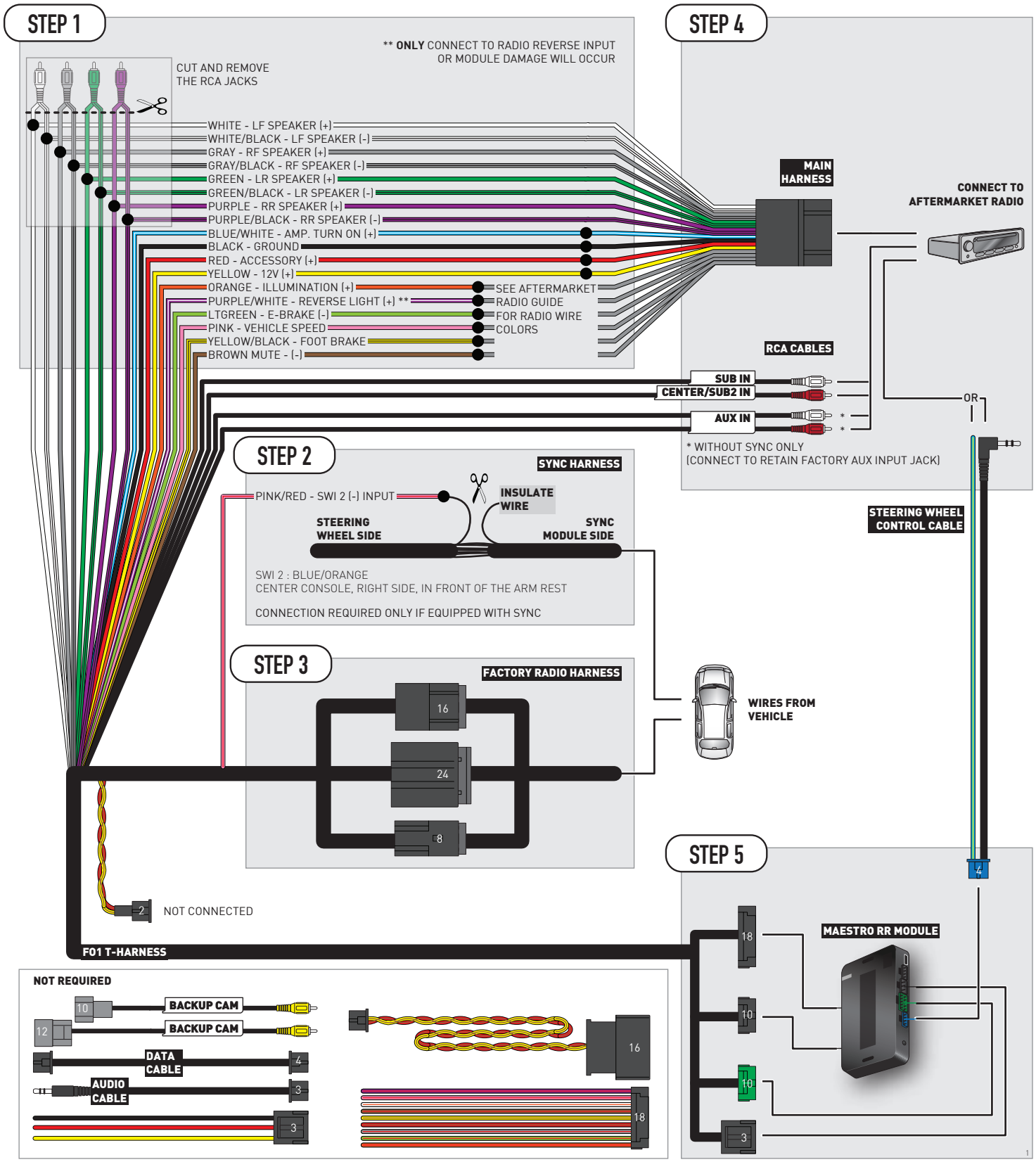
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2010-2012
FORD FUSION
WITH NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory backup camera harness to the F01 12 pin backup camera cable.

STEP 4

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 5

- Plug the aftermarket radio harnesses 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).
- Connect the backup cam cable into the aftermarket radio.
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 6

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

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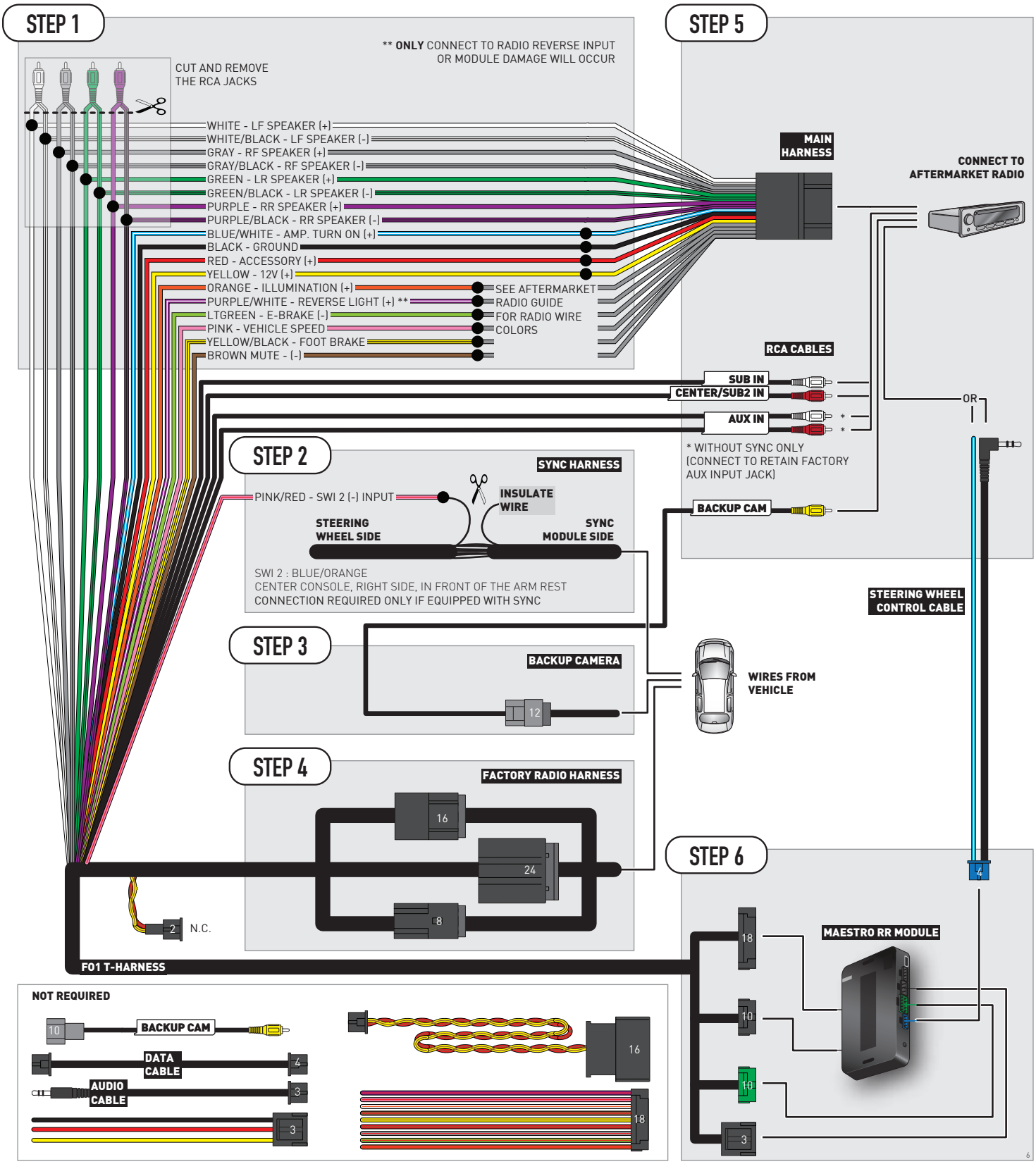
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2010-2012
FORD FUSION
WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

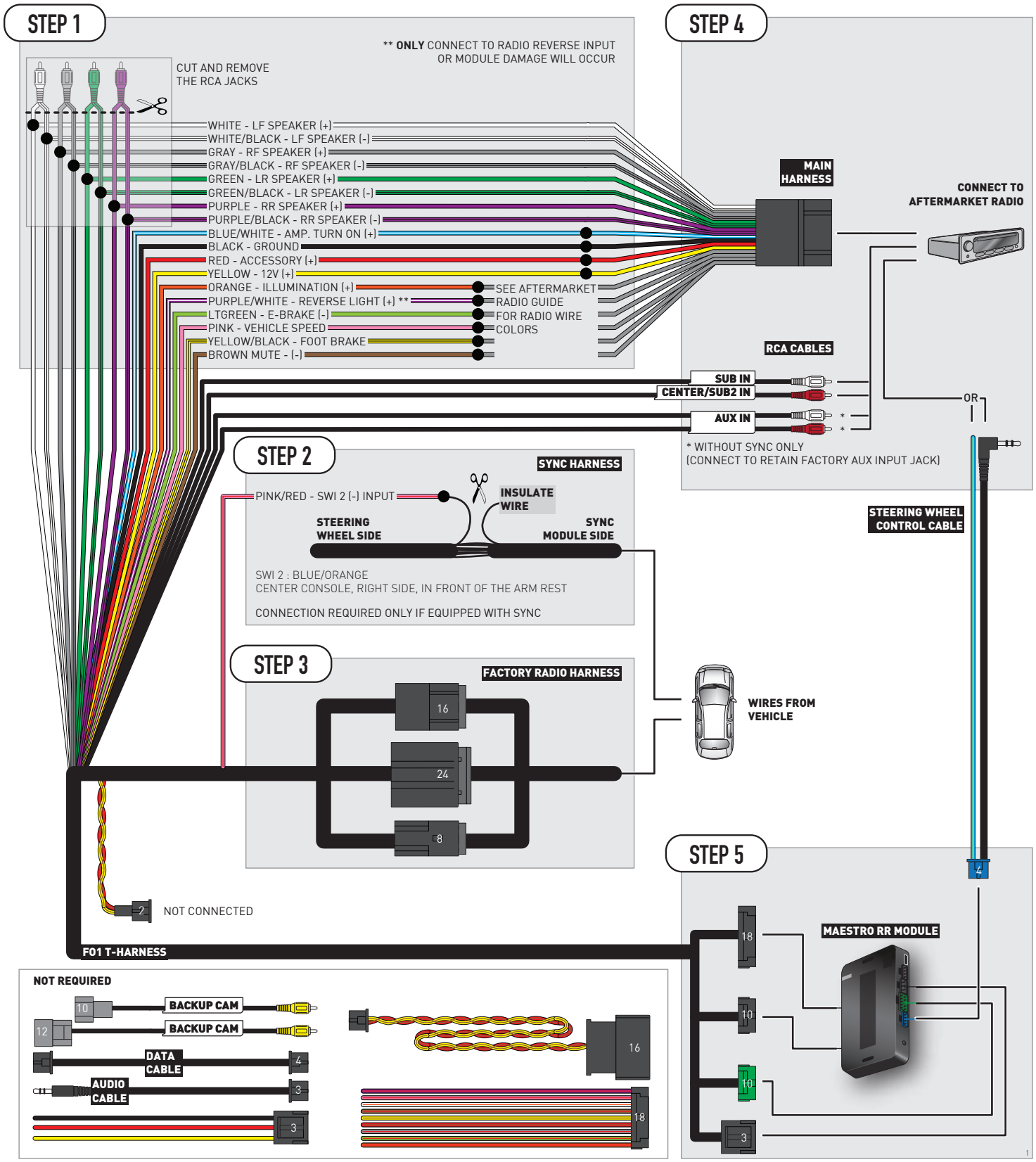
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2007-2009
FORD MUSTANG

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

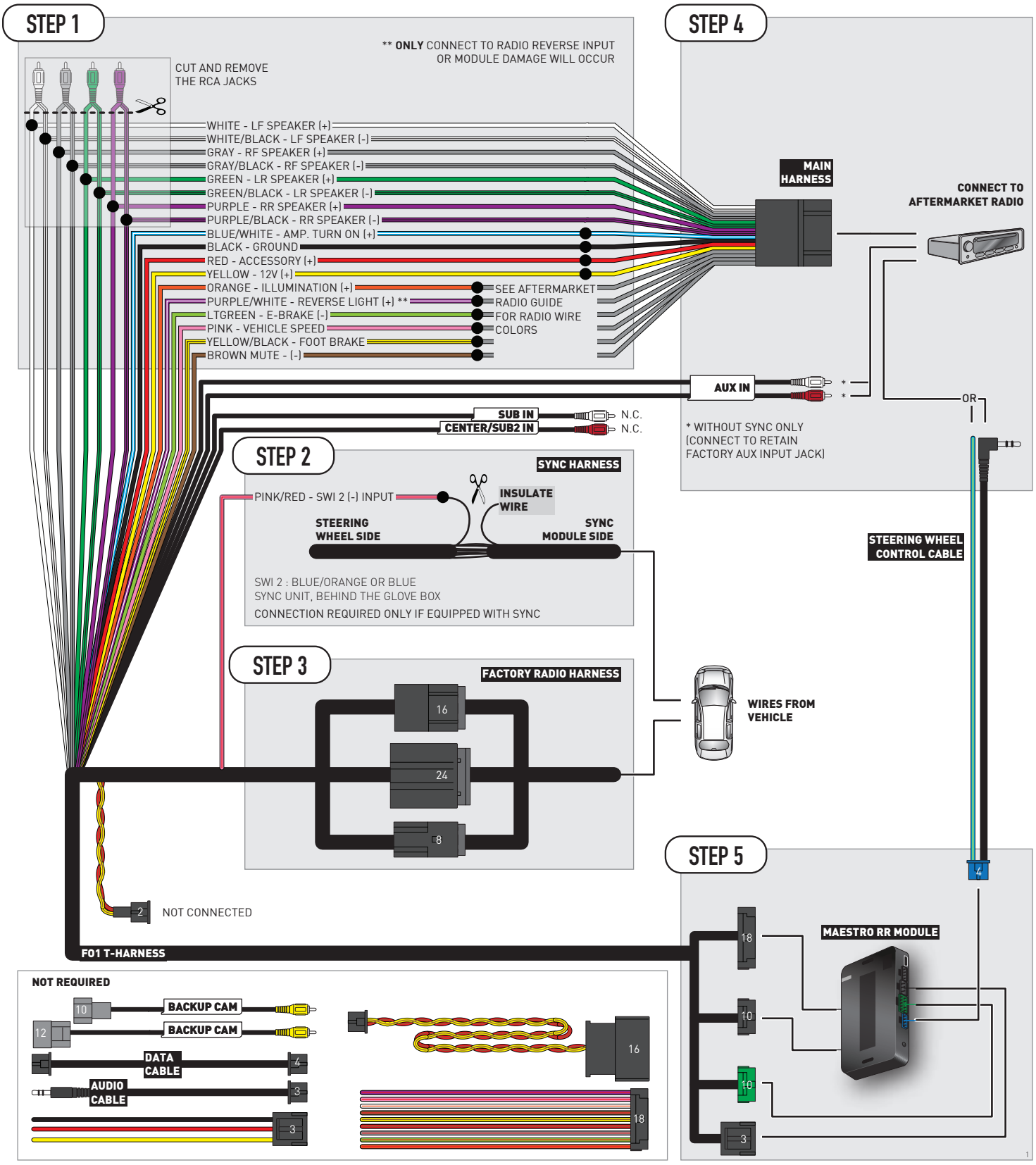
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

7

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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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Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD MUSTANG
BASE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

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PROGRAMMED FIRMWARE: FO1-RR-AS

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

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- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
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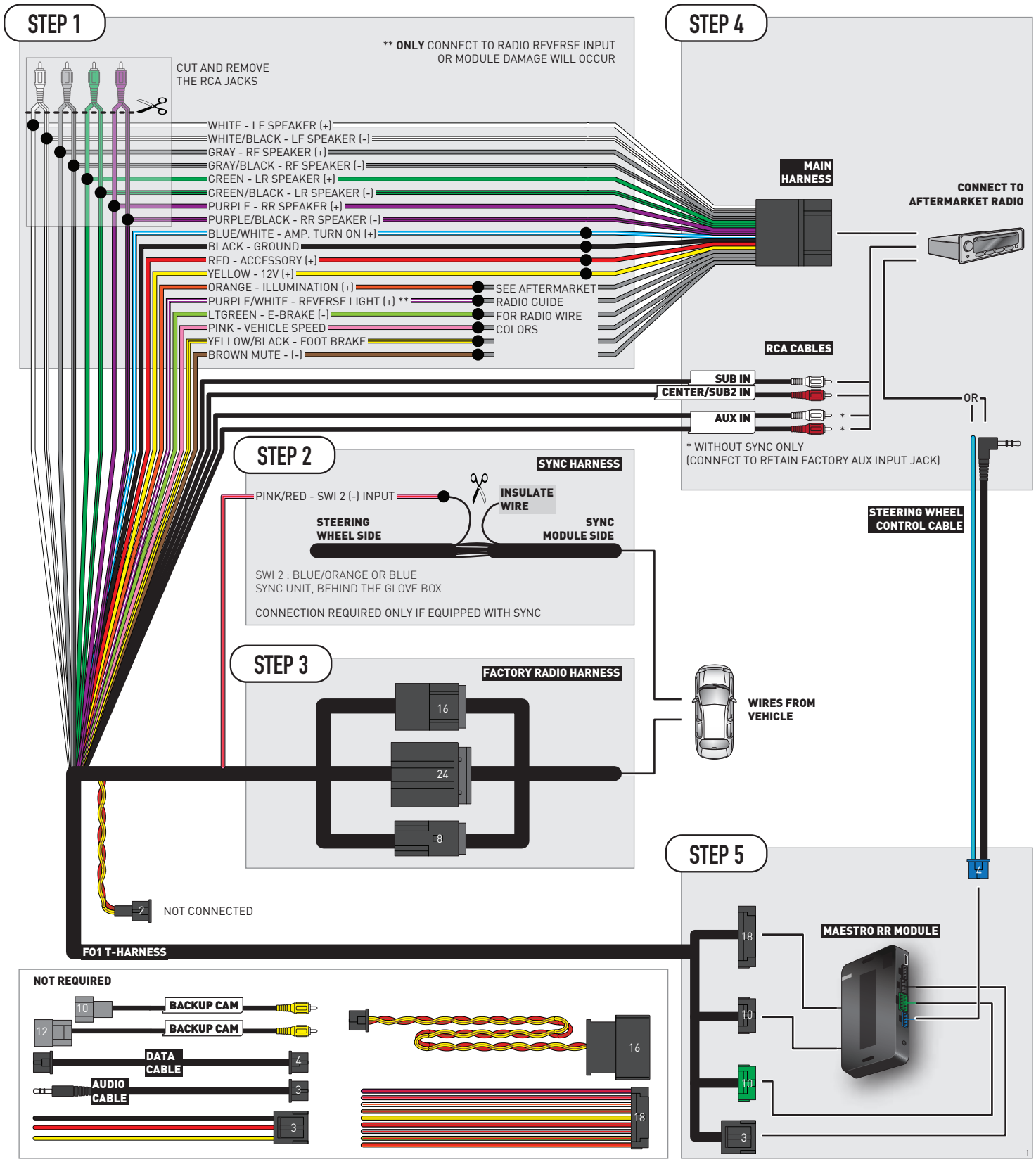
STEP 5

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

1

WIRING DIAGRAM



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

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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2010-2014
FORD MUSTANG
WITH NAV WITH SHAKER OR SHAKER PRO

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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 every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory backup camera harness to the F01 12 pin backup camera cable.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Connect the backup cam cable into the aftermarket radio.
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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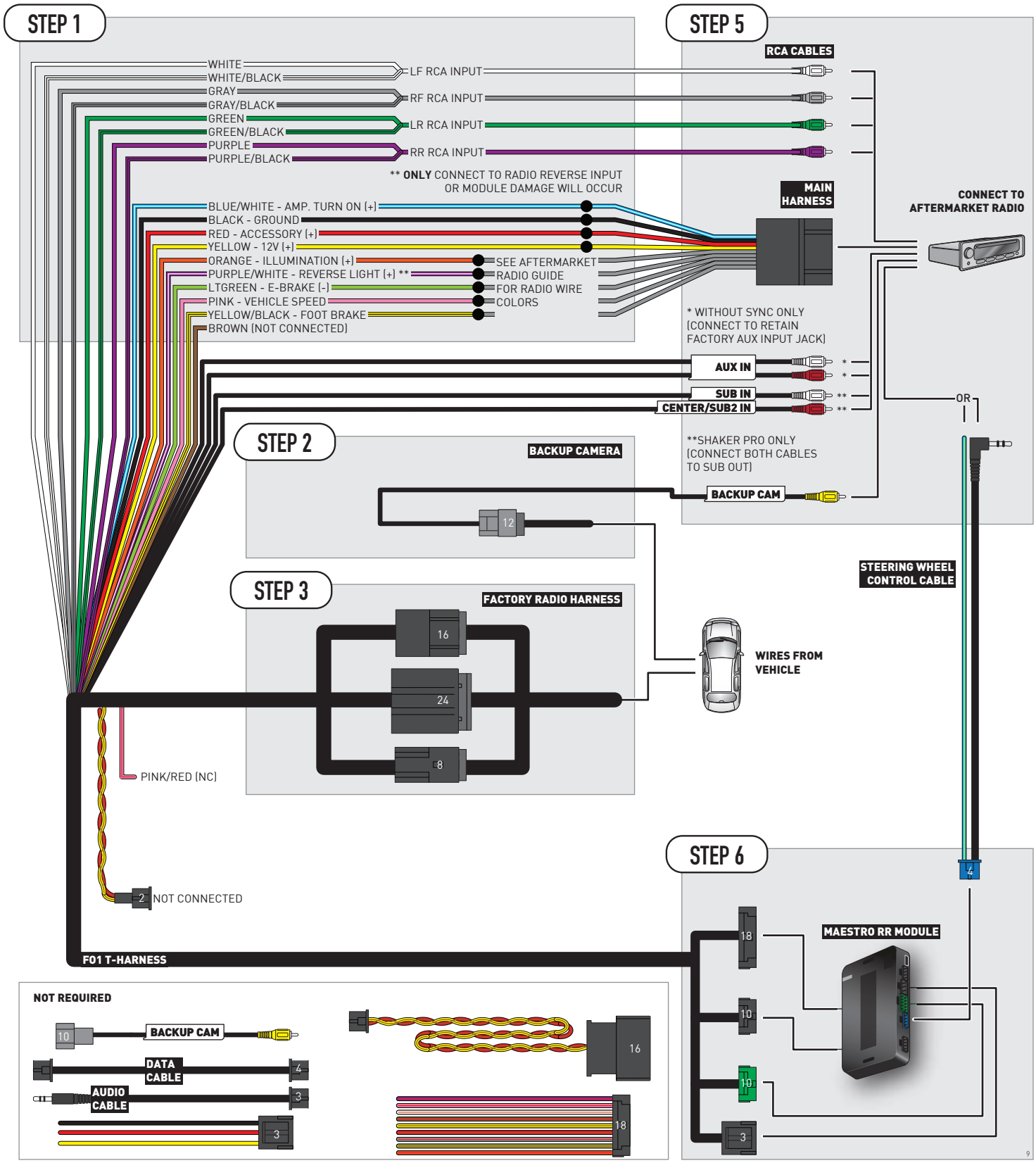
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2010-2014
FORD MUSTANG
WITH NAV WITHOUT SHAKER

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory backup camera harness to the F01 12 pin backup camera cable.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Connect the backup cam cable into the aftermarket radio.
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

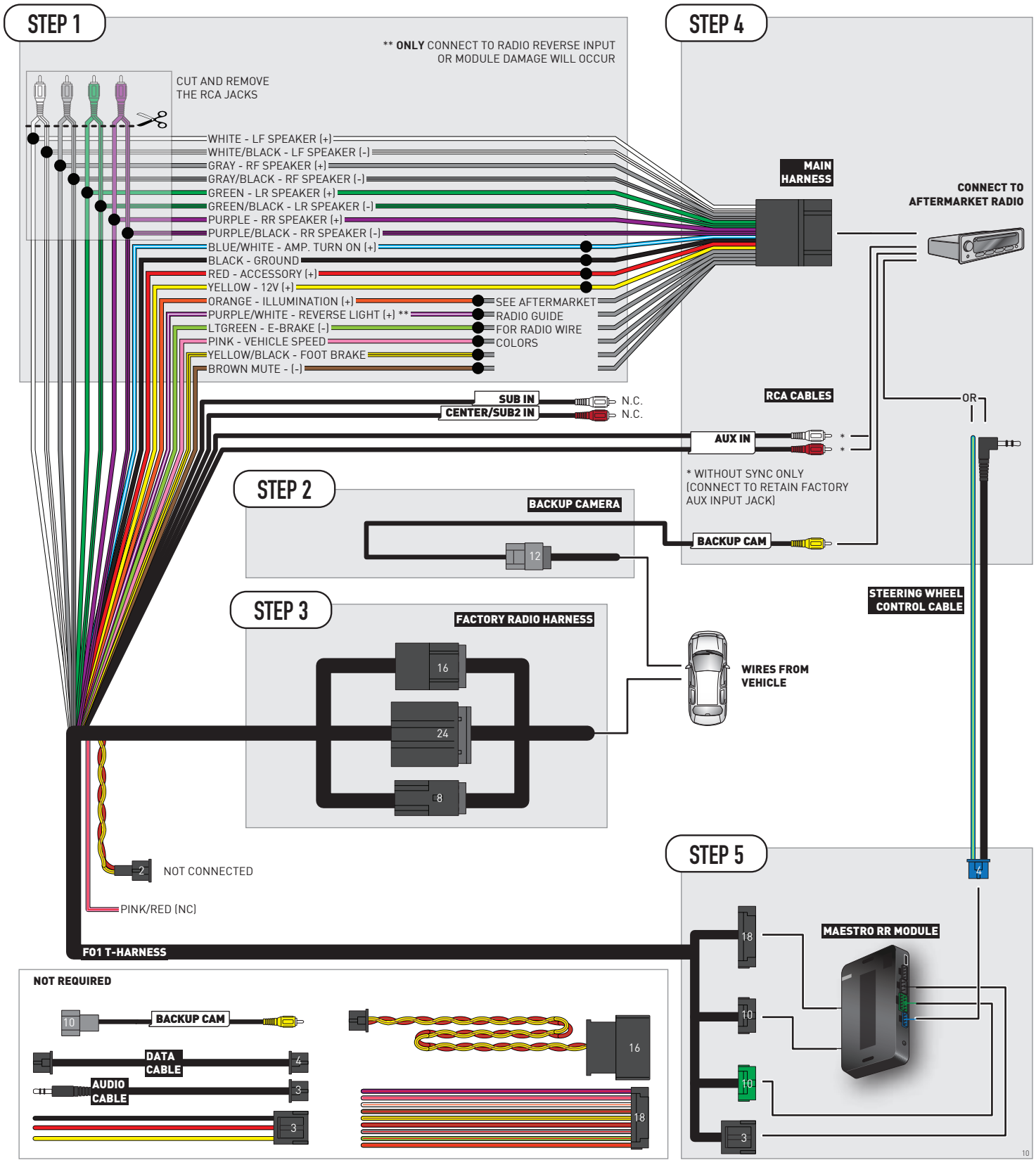
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

4

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2010-2012
FORD MUSTANG
WITHOUT NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-RR-AS

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WELCOME

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

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

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

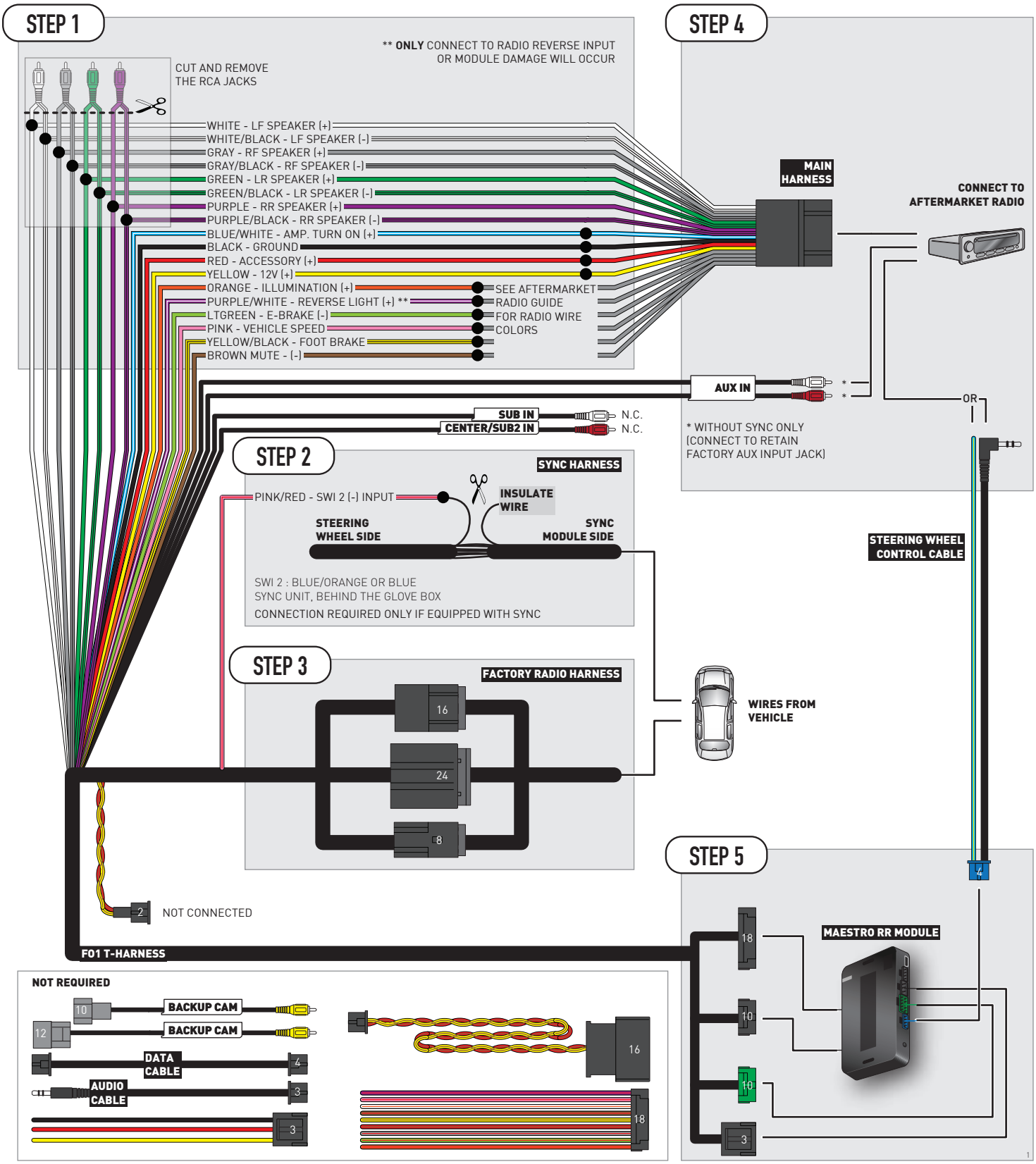
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

7

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD MUSTANG
WITHOUT NAV WITH SHAKER OR SHAKER PRO

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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 every wire from the aftermarket radio main harness to the F01 T-harness and match the wire colors. (Refer to Diagram)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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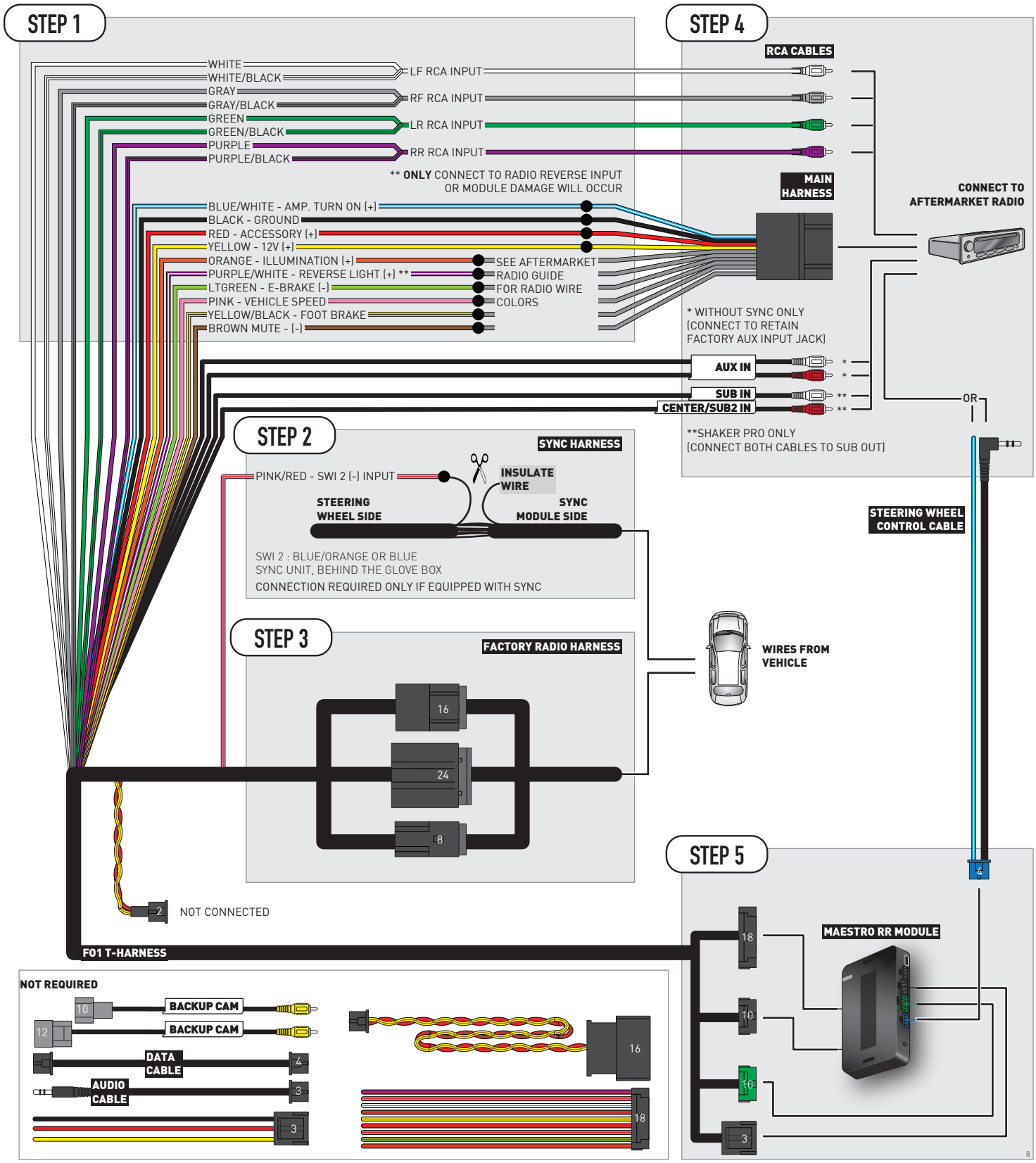
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2008-2009
FORD TAURUS

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

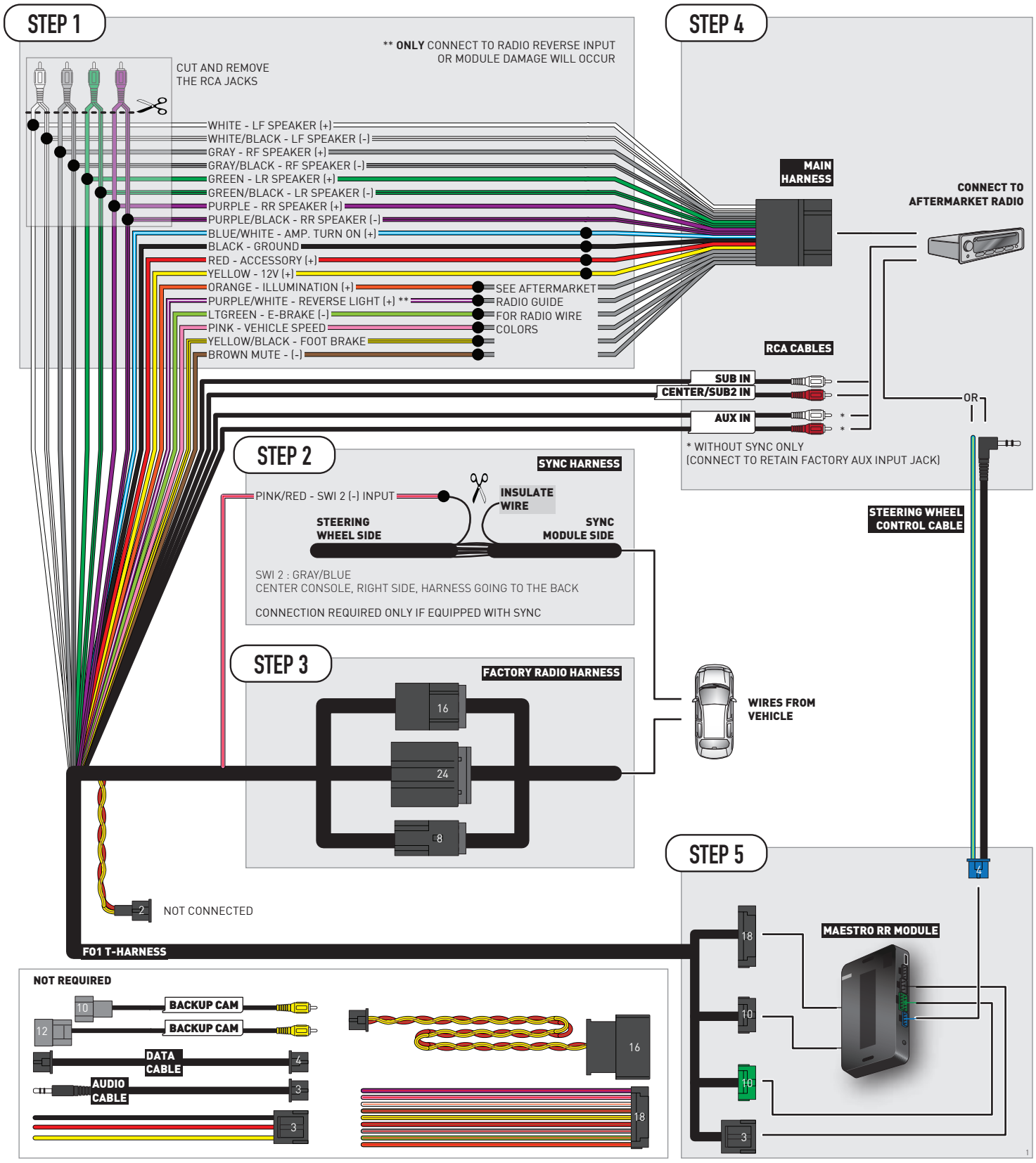
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2010-2012
FORD TAURUS

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
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WITHOUT SYNC ONLY:

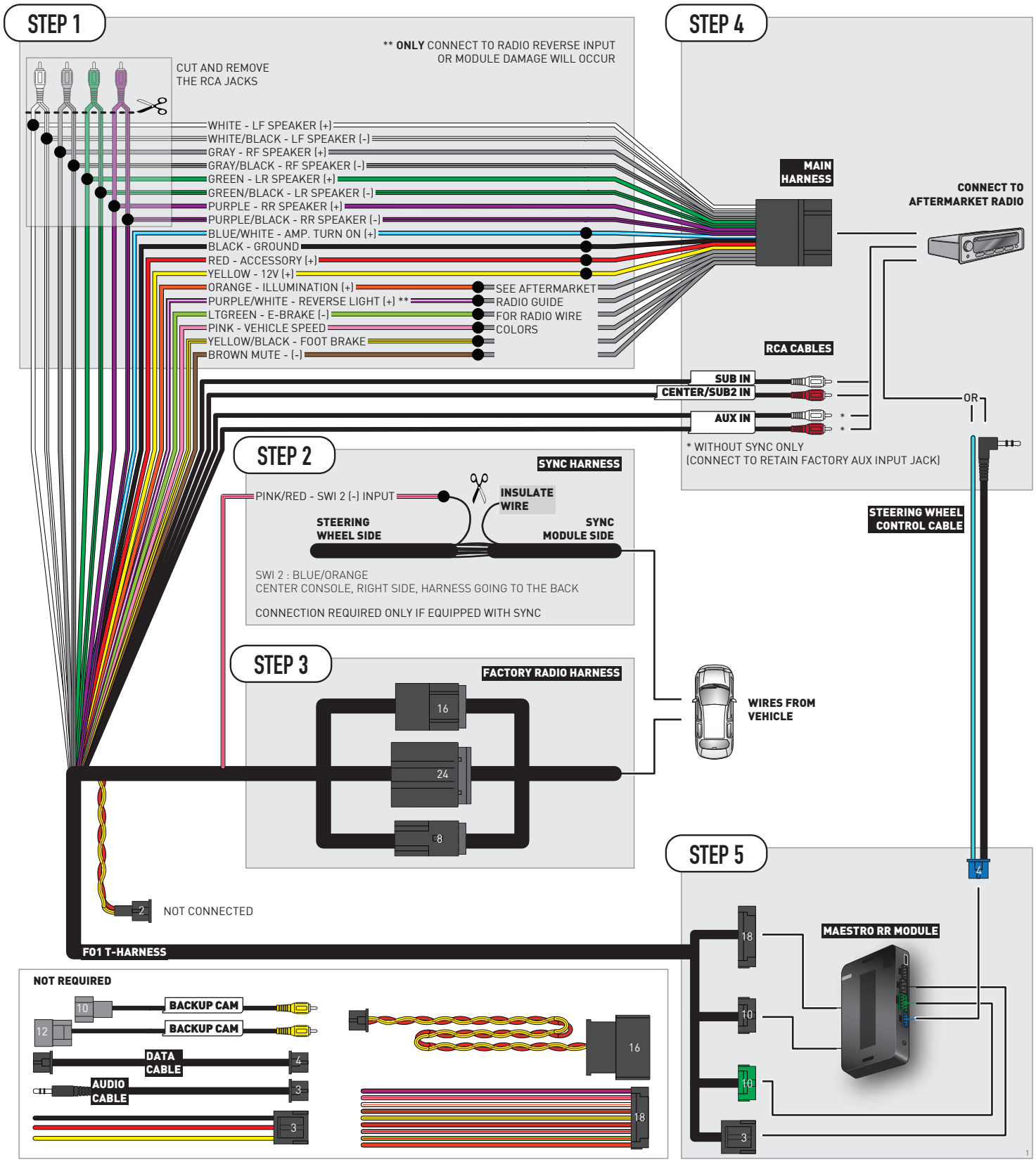
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
FORD TAURUS X

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

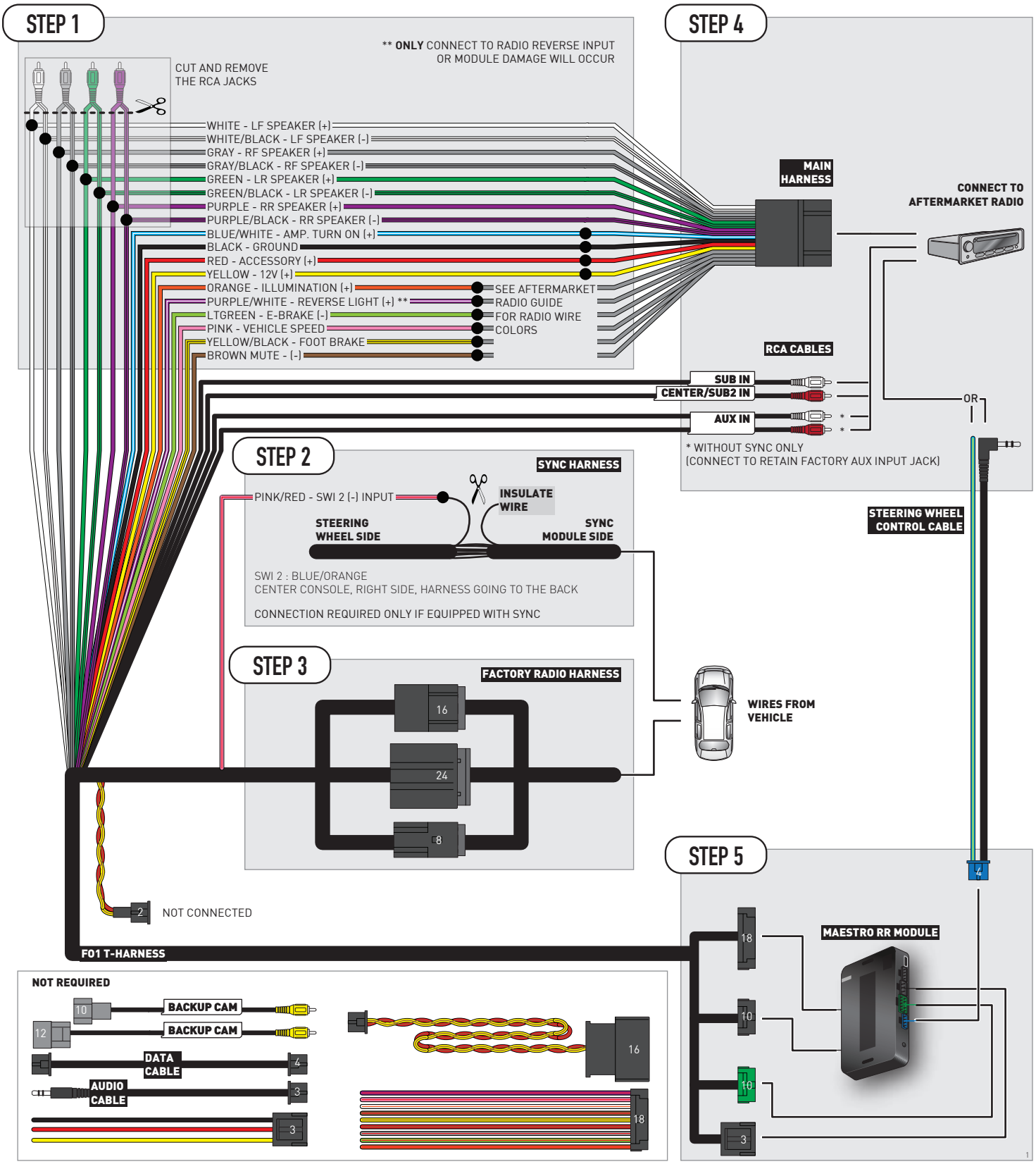
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
LINCOLN MKS

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

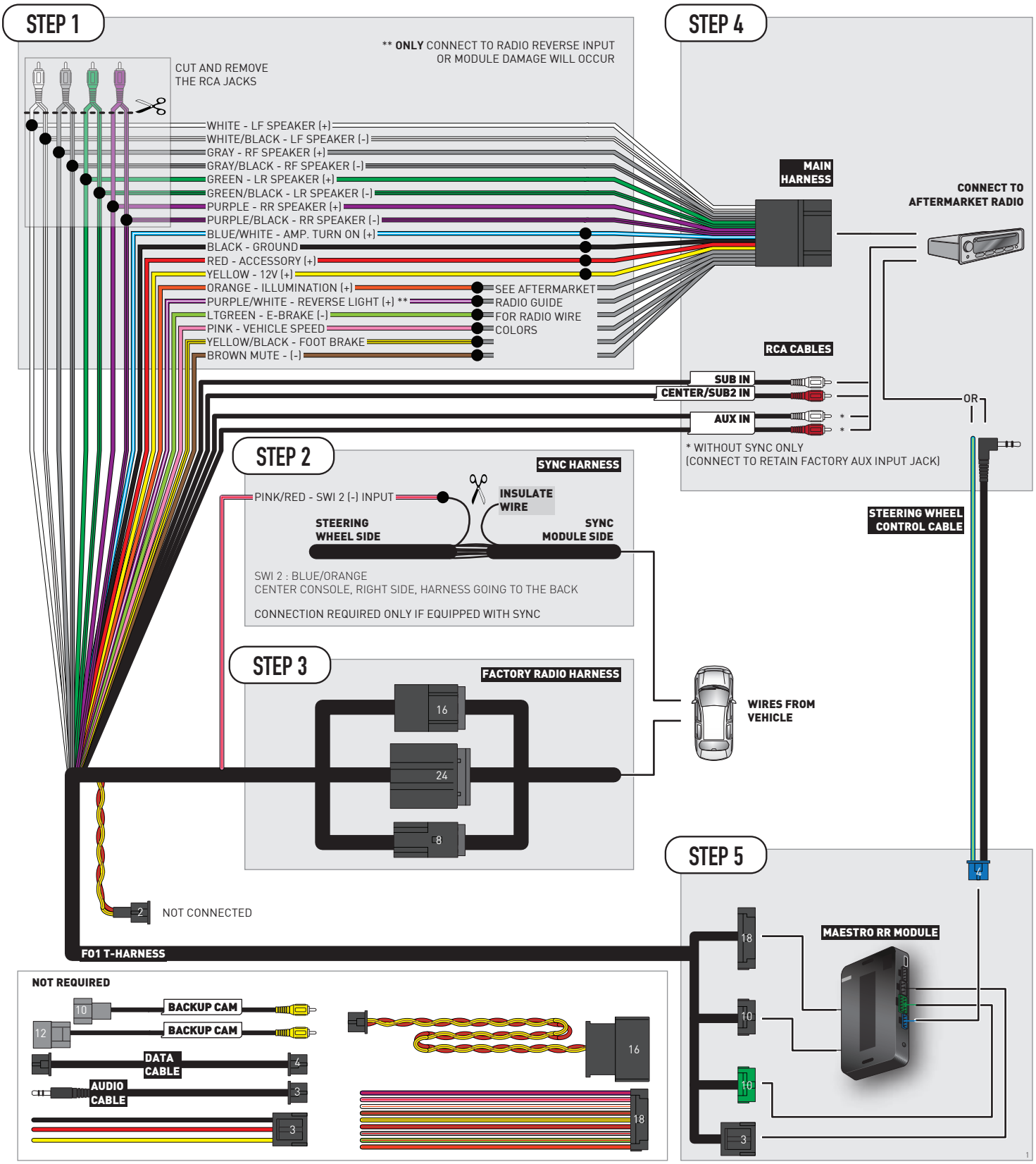
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2010-2012
LINCOLN MKT

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Unbox the aftermarket radio and locate its main harness.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

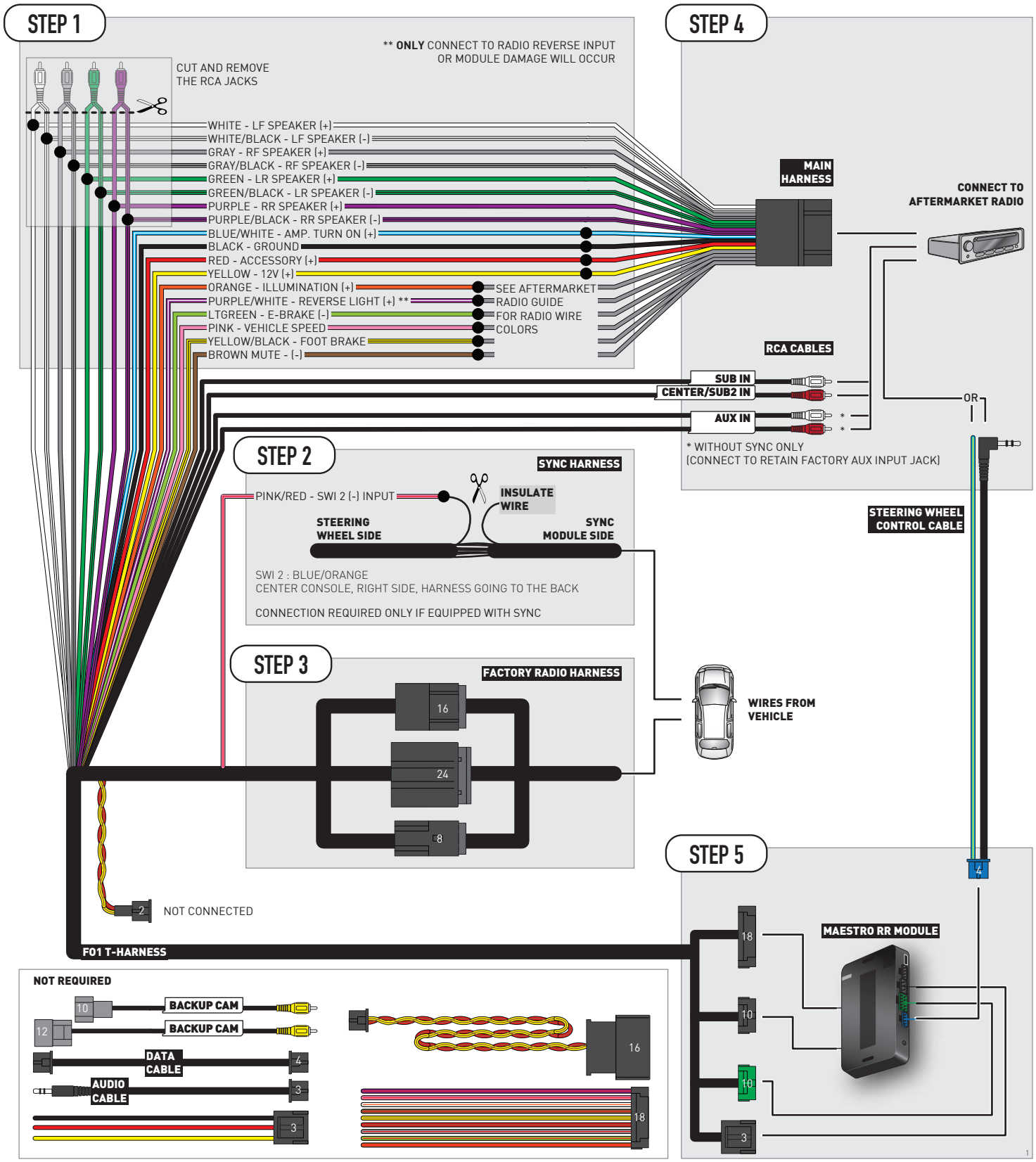
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
LINCOLN MKX

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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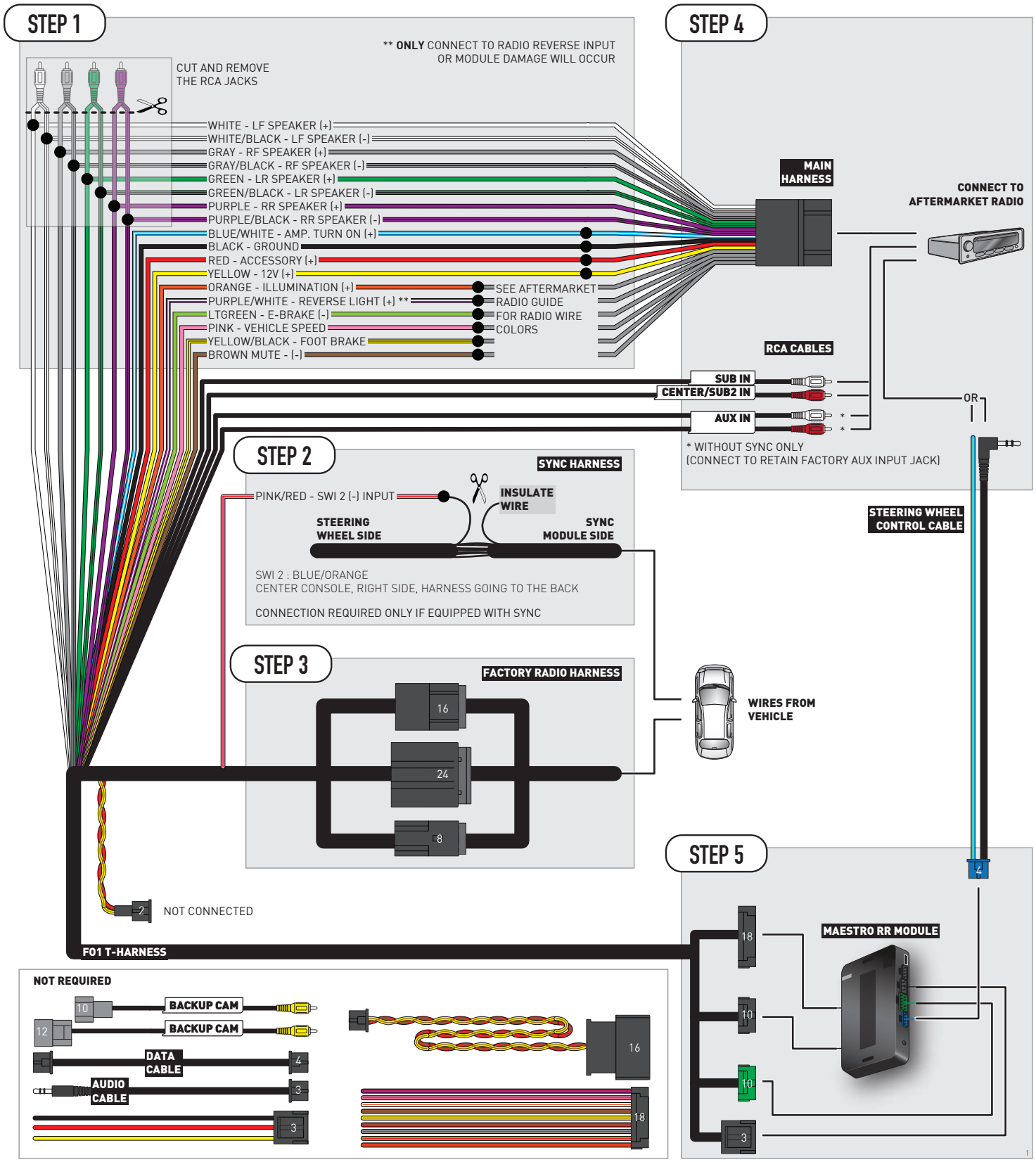
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2007-2012
LINCOLN MKZ

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

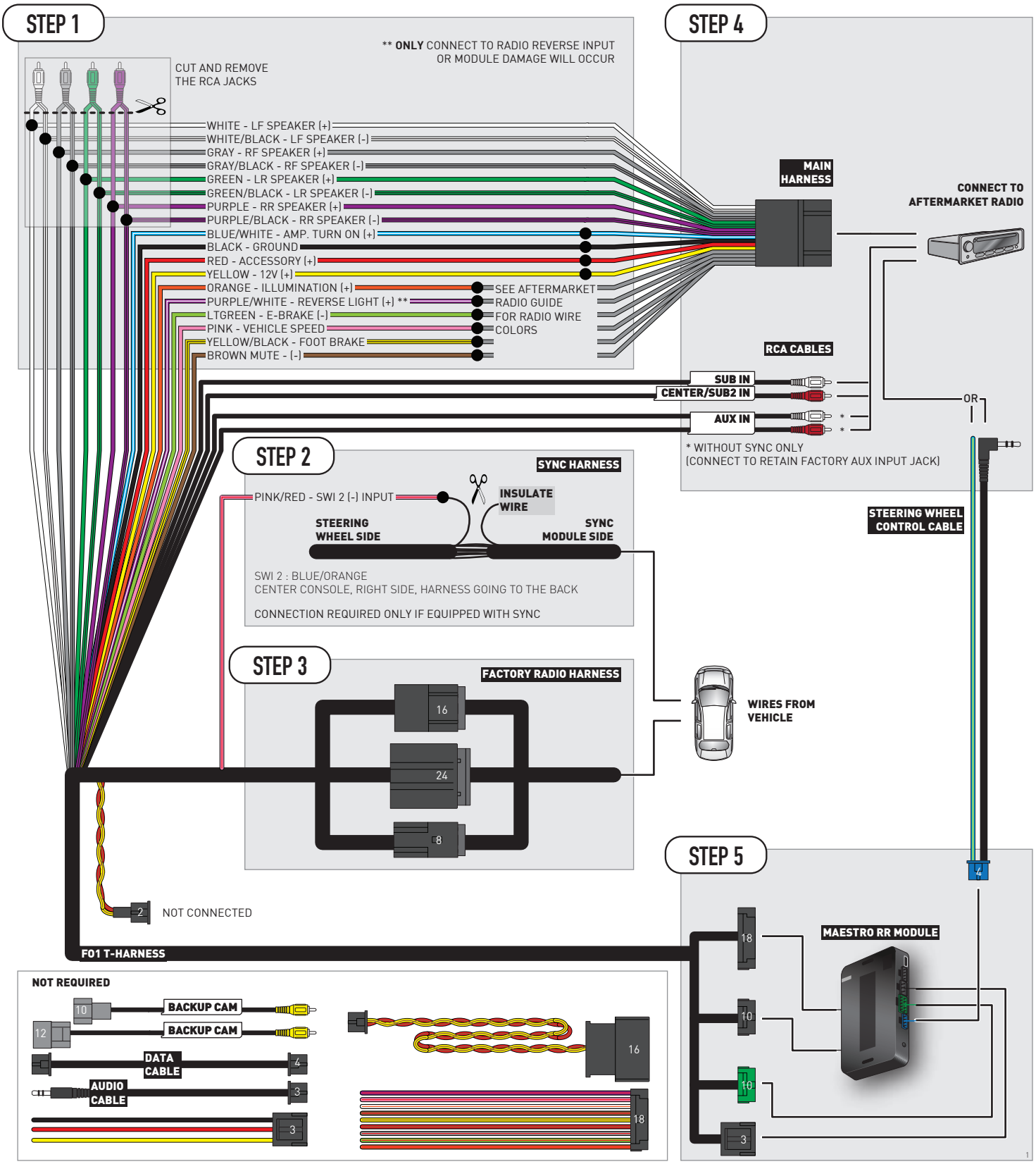
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
LINCOLN MARK LT
WITH NAV

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory backup camera harness to the F01 12 pin backup camera cable.

STEP 4

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 5

- Plug the aftermarket radio harnesses 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).
- Connect the backup cam cable into the aftermarket radio.
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

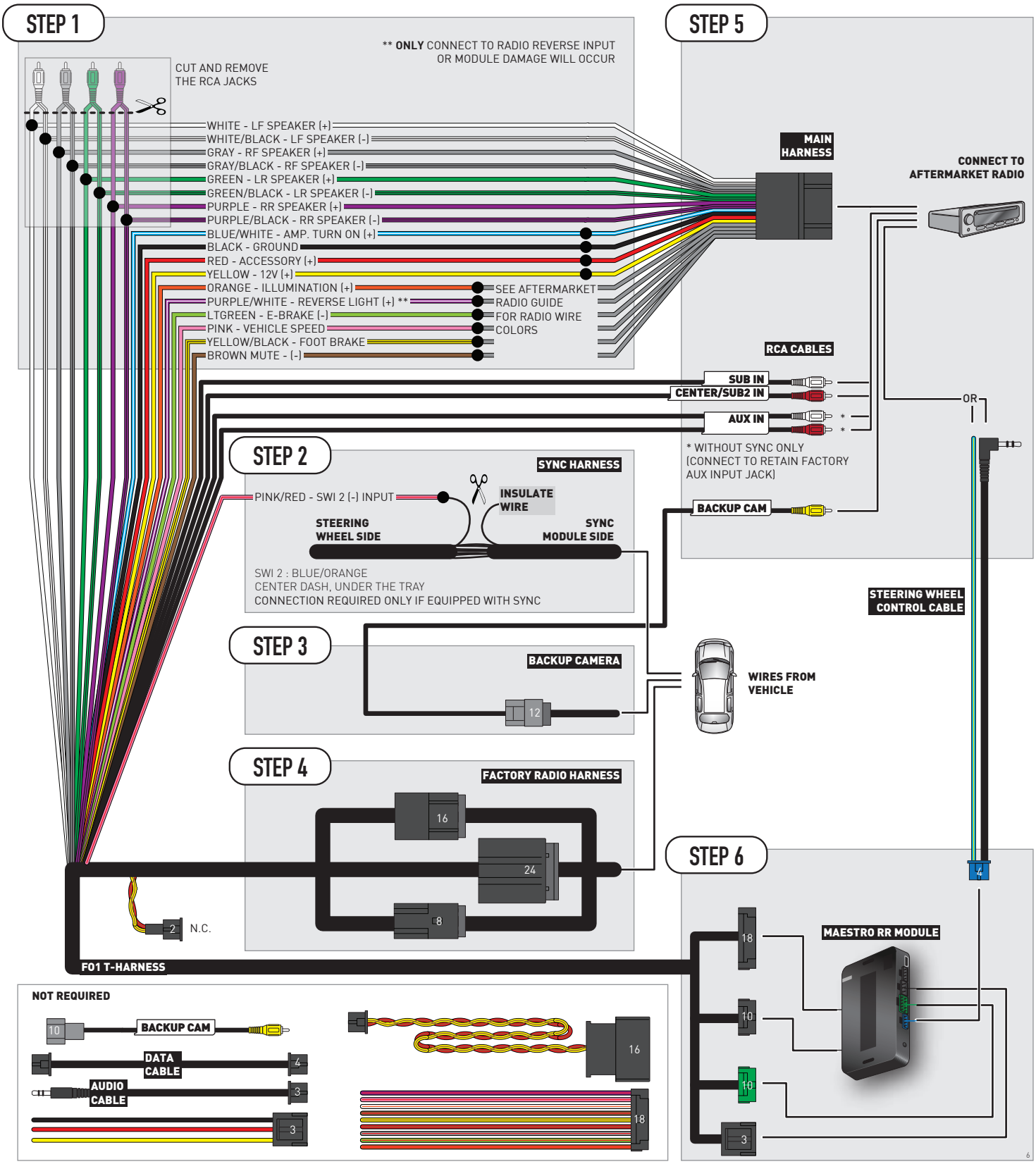
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 6

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

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2007-2014
LINCOLN NAVIGATOR

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

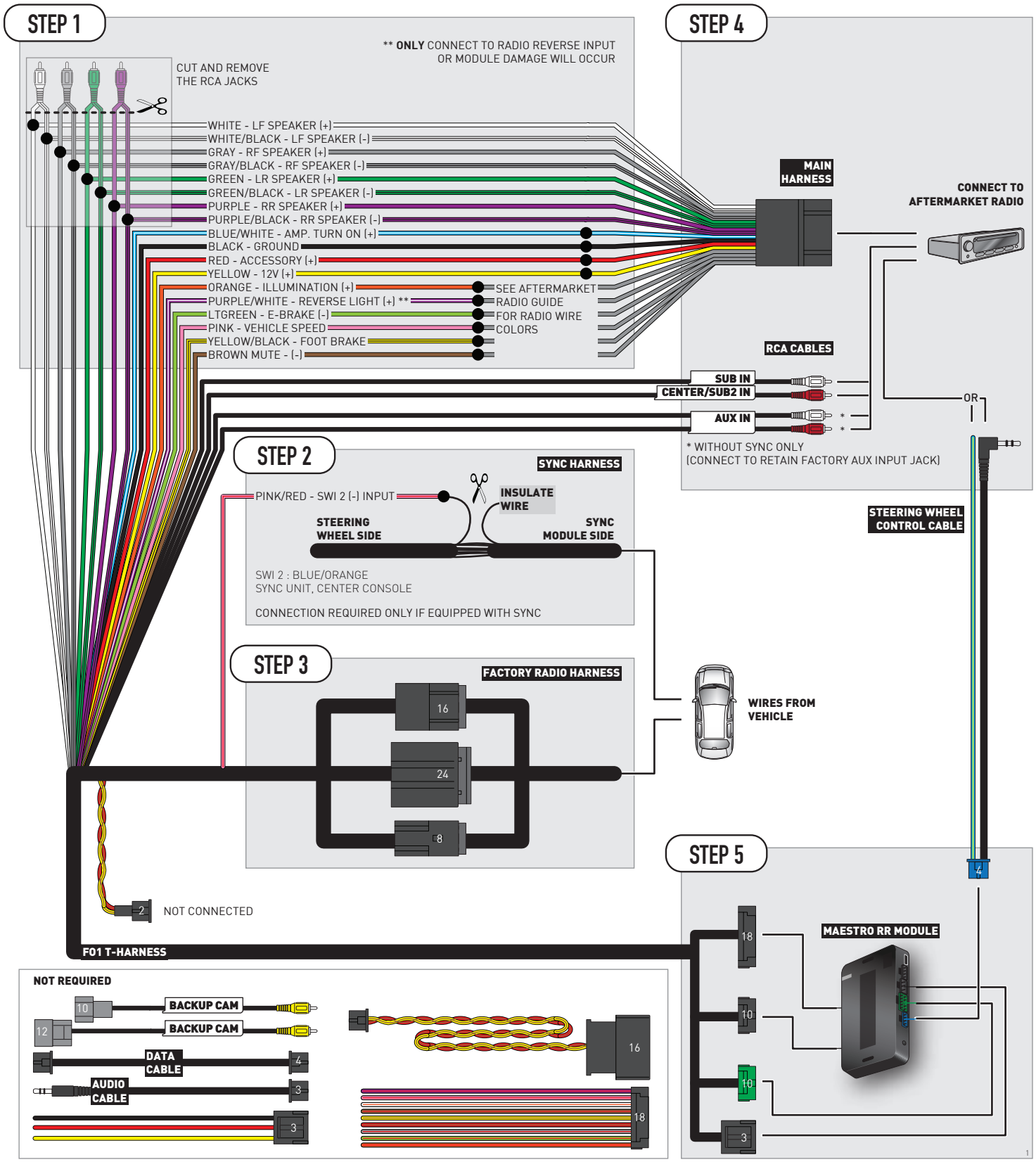
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
LINCOLN ZEPHYR

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 3

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 4

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

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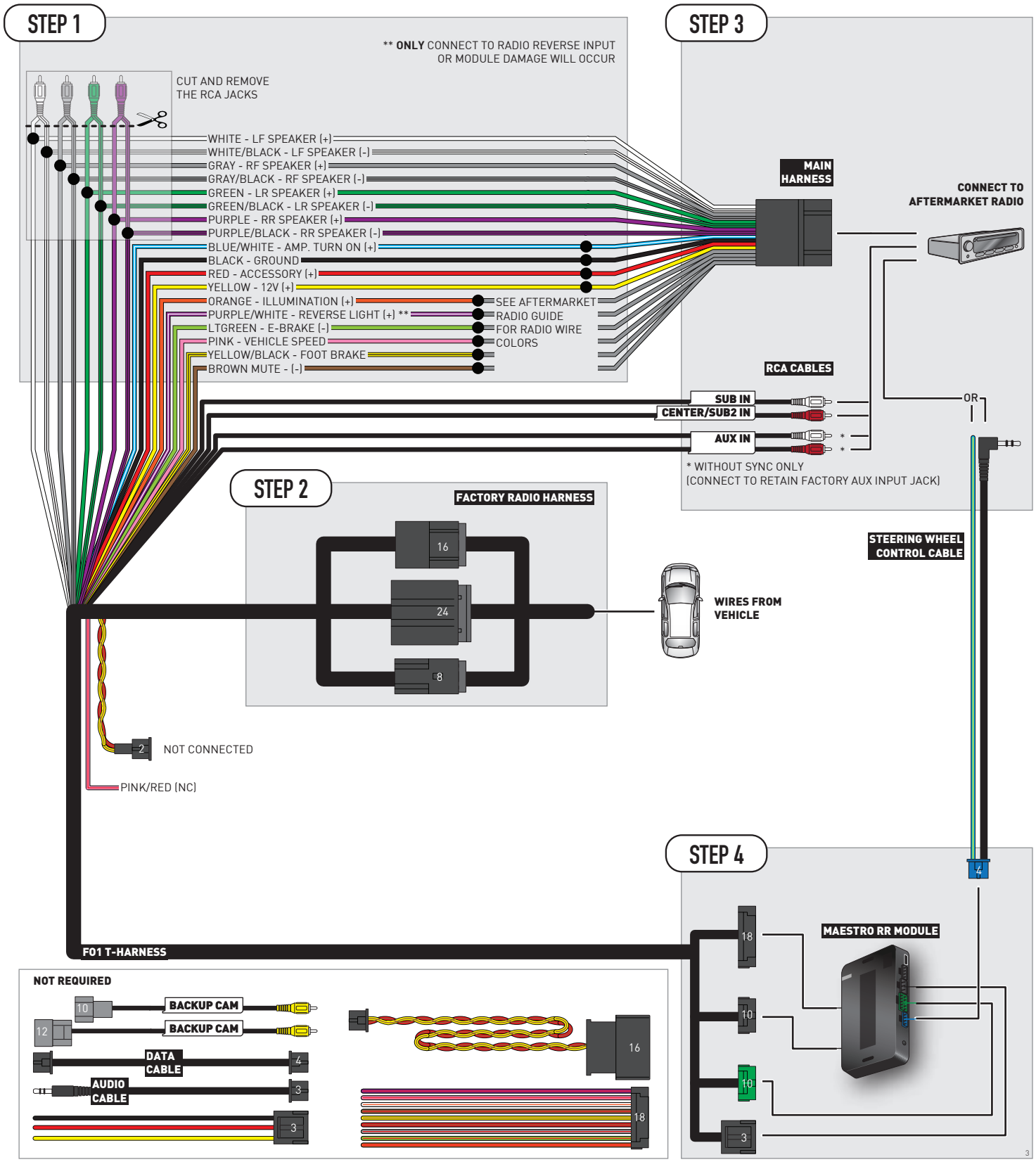
WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
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.

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 P1 /2

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Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
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TROUBLESHOOTING TABLE P2 /2

MAESTRO RR RESET PROCEDURE:

Turn the key to the OFF position, then disconnect all connectors from the module.
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Email: maestro.support@idatalink.com

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INSTALL GUIDE

2008-2011
MAZDA TRIBUTE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



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- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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STEP 2

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 3

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

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WITHOUT SYNC ONLY:

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STEP 4

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

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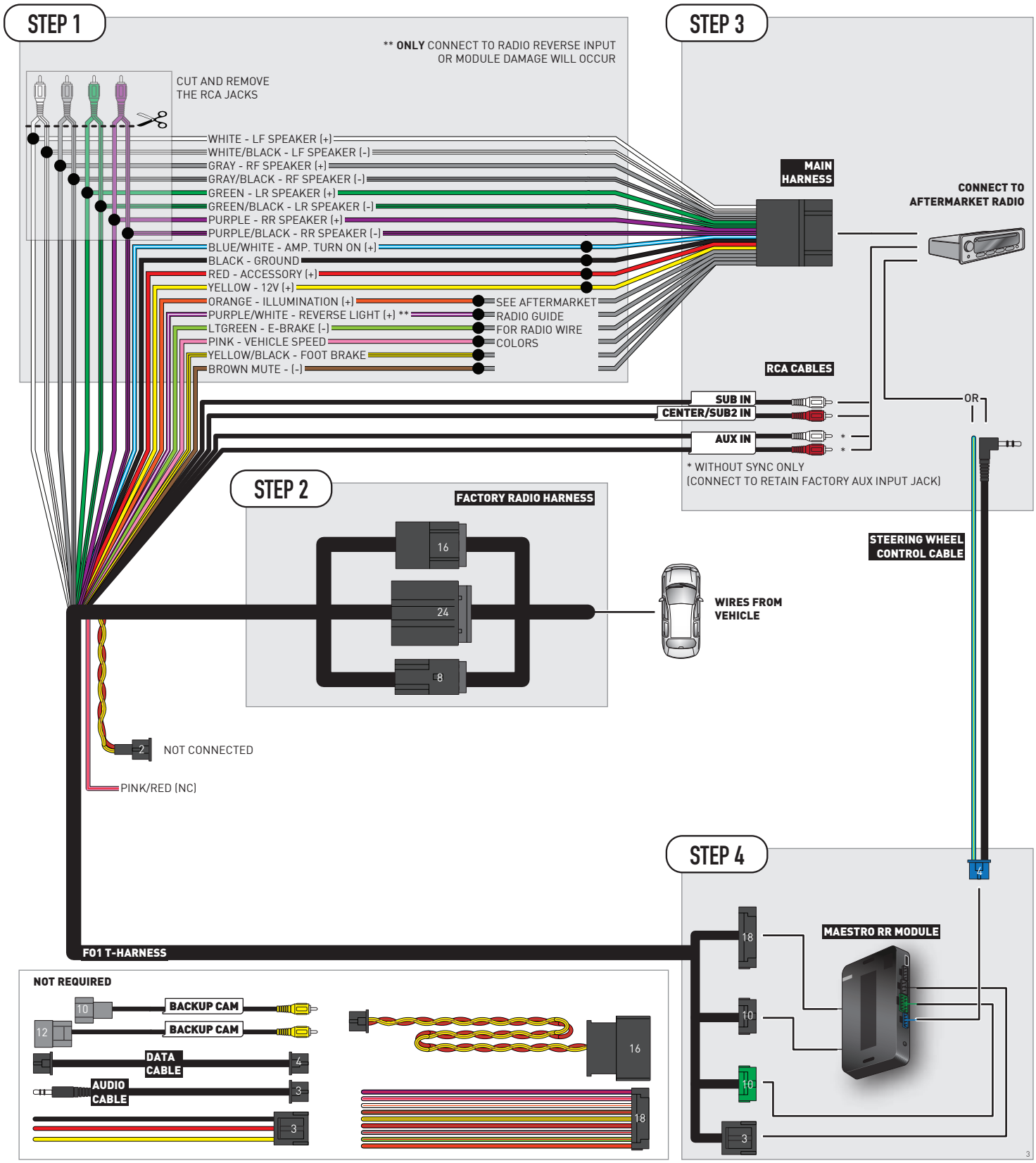
WIRING DIAGRAM



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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2008-2011
MERCURY MARINER

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

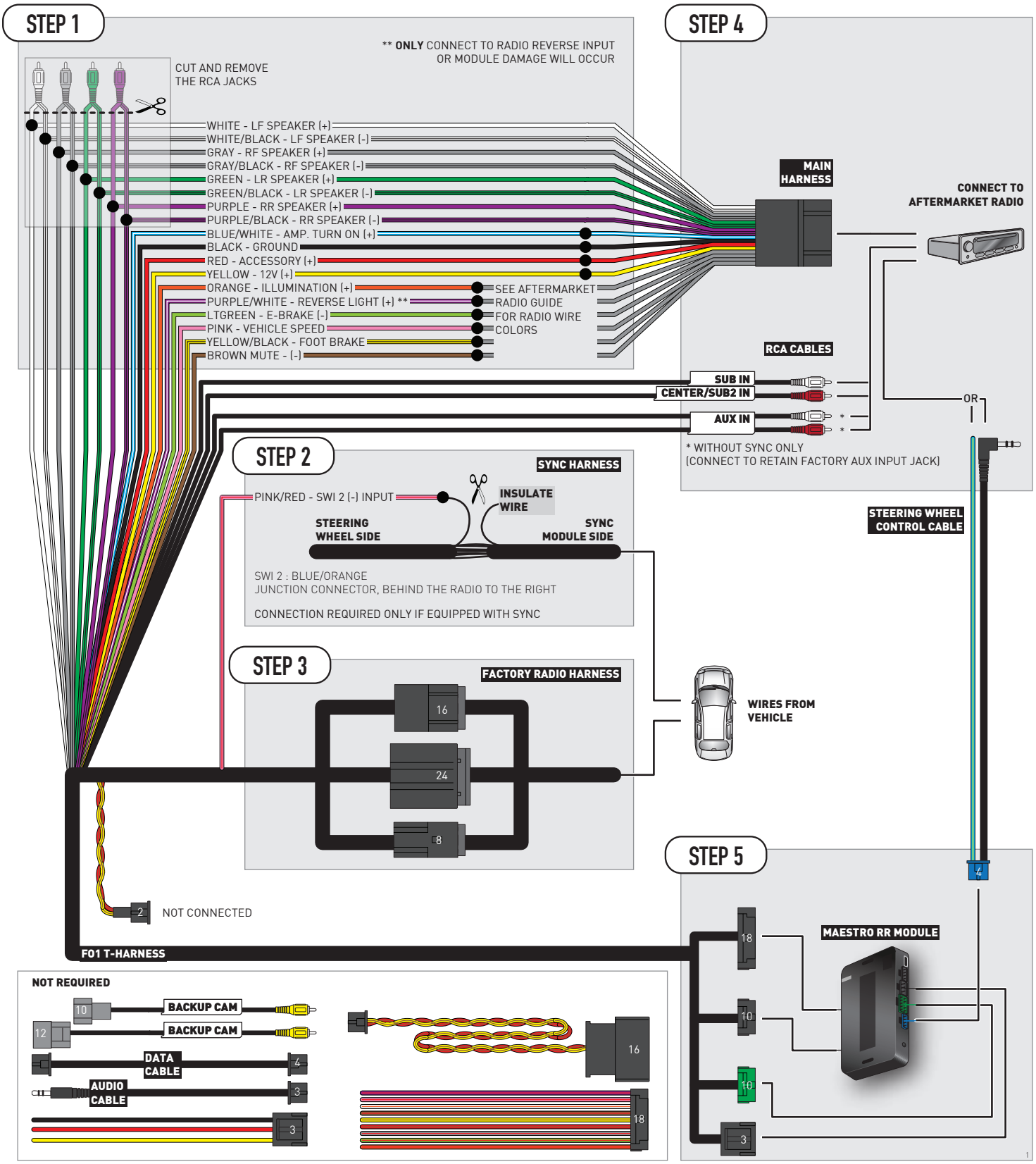
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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
MERCURY MILAN

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

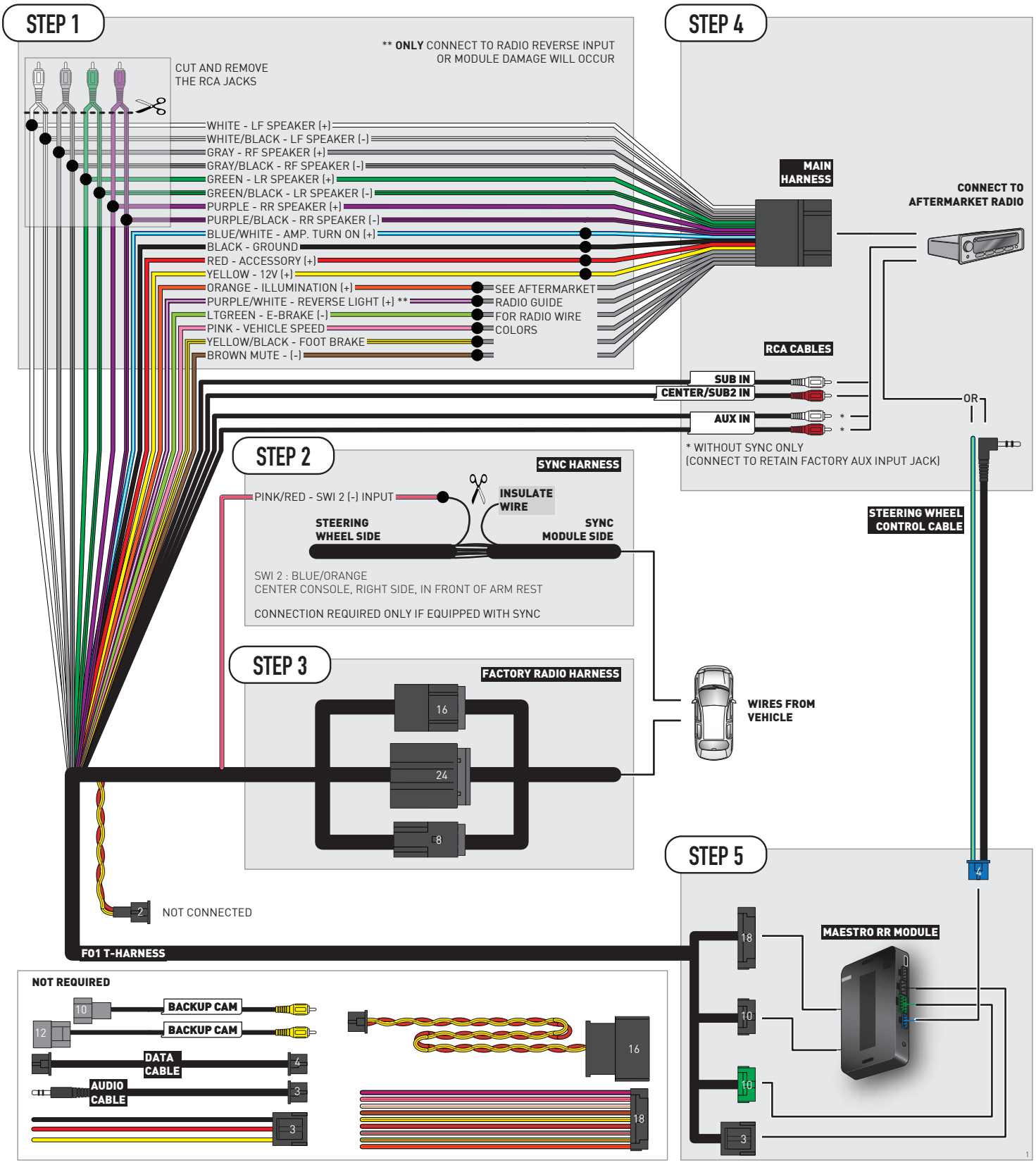
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

1

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2005-2007
MERCURY MONTEGO

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



+



PRODUCTS REQUIRED

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iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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
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INSTALLATION INSTRUCTIONS P1/1

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- Unbox the aftermarket radio and locate its main harness.
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- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 3

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

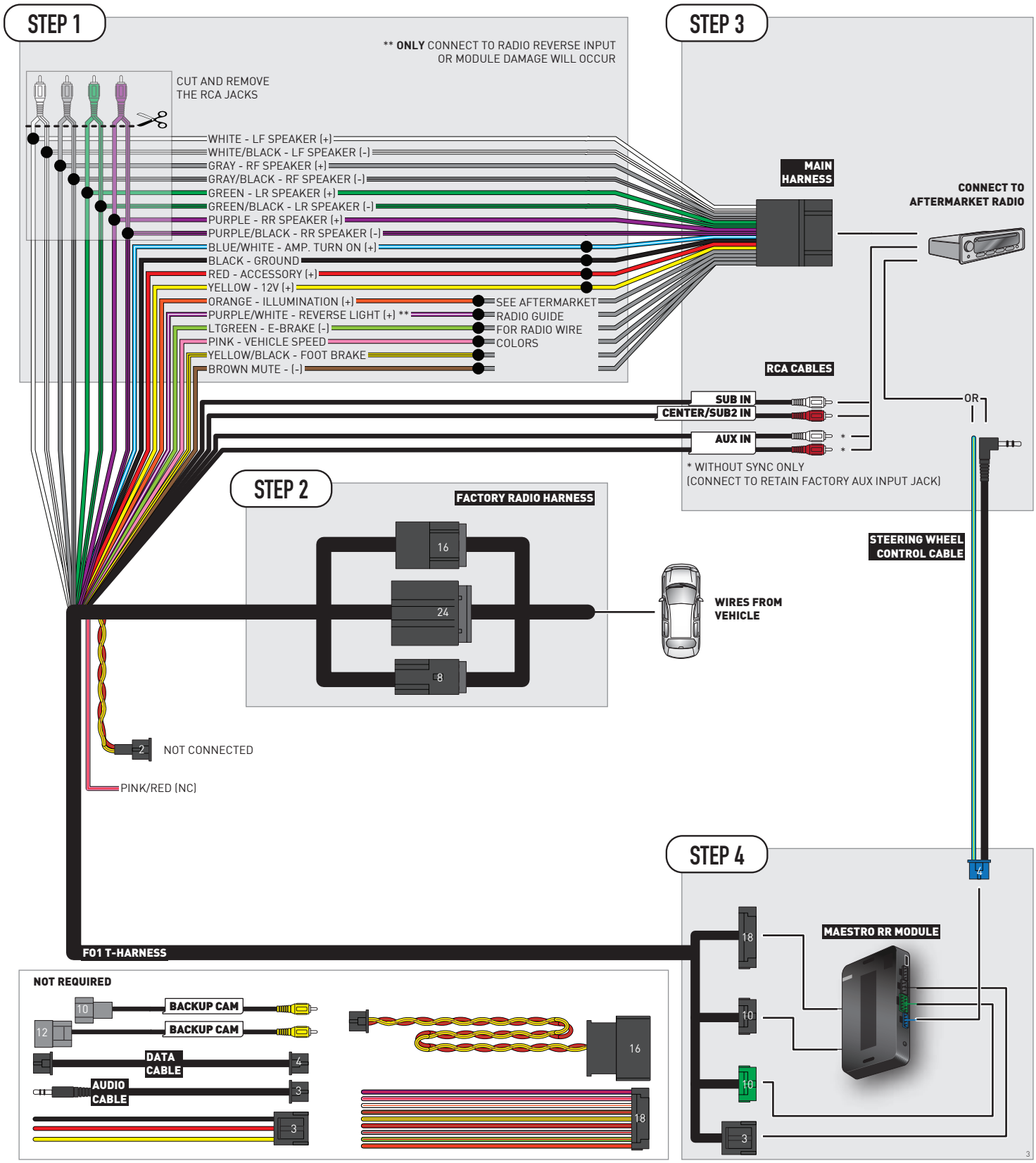
- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 4

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

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2006-2010
MERCURY MOUNTAINEER

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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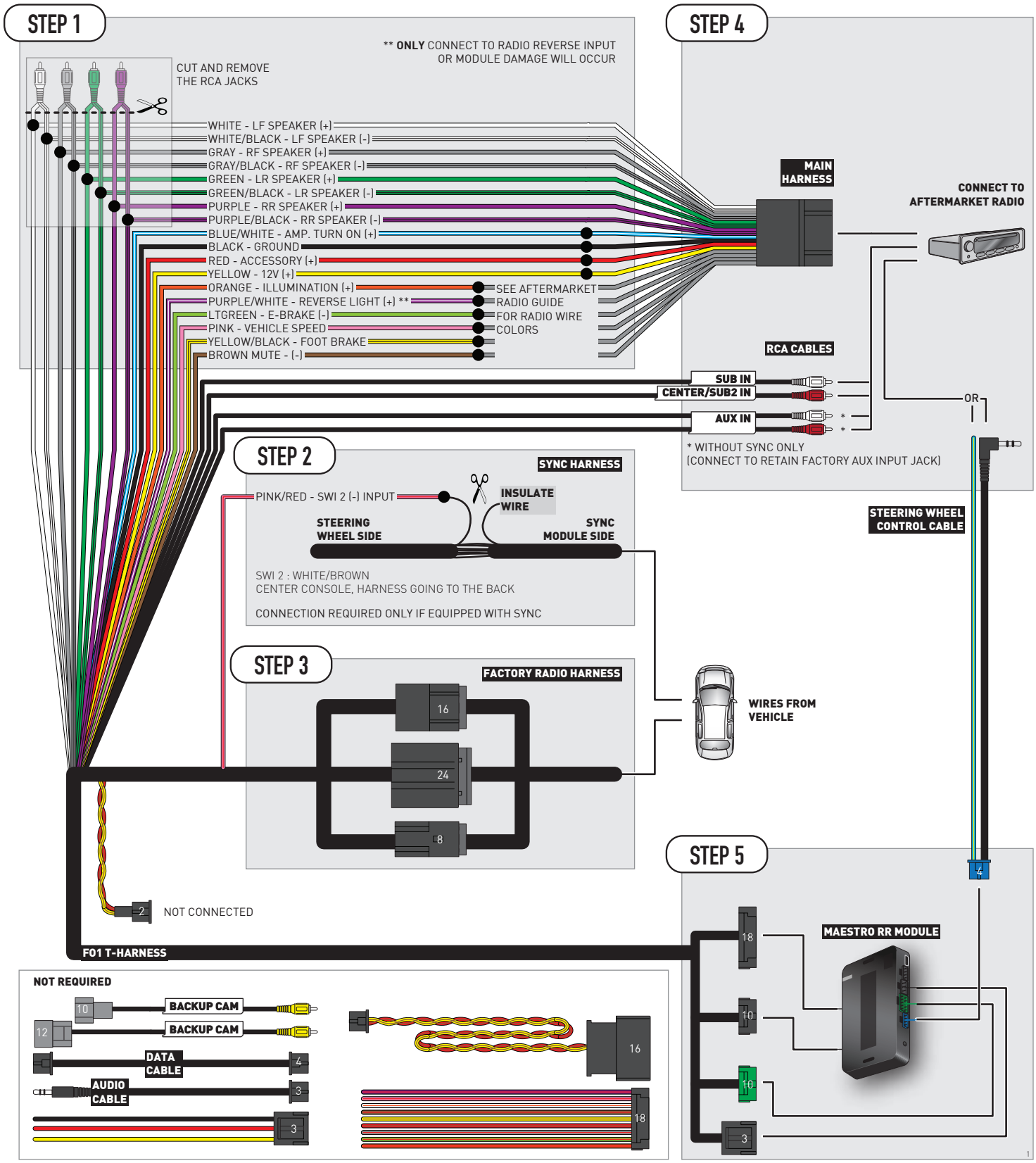
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

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 radio won't turn on AND there is no 16-pin plug at the factory radio. Maestro LED may flash 2x RED with key on.	The data lines are not present behind the radio and must be connected at the OBDII. Extend and connect **BROWN/RED** and **BROWN/YELLOW** wires from the F01's 16-pin plug to: **BROWN/RED TO OBDII PIN 3 – GRAY/ORANGE** **BROWN/YELLOW TO OBDII PIN 11 – VIOLET/ORANGE**
Steering wheel buttons work except phone answer/end/voice.	If guide shows connecting pink/red wire, verify this connection is proper. Refer to step 2 of written instruction for testing. If guide shows "NC" for this wire, this does not apply. Verify buttons work with factory radio.
No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

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

2008-2009
MERCURY SABLE

RETAINS STEERING WHEEL CONTROLS, FACTORY AMPLIFIER CONTROL, ANALOG OUTPUTS AND MORE!



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PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro RR-FO1 Installation Harness

PROGRAMMED FIRMWARE: FO1-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.
- Cut the WHITE, GRAY, GREEN and PURPLE RCA tips. Connect every wire to the aftermarket radio main harness and match the wire colors.
- Connect every wire from the aftermarket radio main harness to the F01 T-harness and match the wire functions. (Refer to aftermarket radio guide)

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

STEP 2

(Required for vehicles equipped with SYNC, without factory navigation system; refer to Vehicle Wire Chart)

- Disassemble the dashboard carefully and remove the factory radio from its housing without disconnecting it.
- Use a multimeter to test the SWI 2 wire. Connect the BLACK test probe to ground (-) and connect the RED test probe to the wire SWI 2 wire. Have the ignition and the radio ON. If the SWI 2 wire is connected, the multimeter will display approximately 5 volts. This value will drop upon pressing the steering wheel voice, phone or OK button.
- Cut the SWI 2 INPUT wire.
- Connect the PINK/RED wire of F01 T-harness to the SWI 2 INPUT wire going to the steering wheel. Insulate the wire side going to the SYNC module and plug the SYNC harness into the SYNC module.

STEP 3

- Connect the factory harness to the F01 T-harness. Connect only the available connectors. For example, if the factory harness has two connectors, connect only these two connectors.

STEP 4

- Plug the aftermarket radio harnesses 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).
- Insert the RCA connectors into the aftermarket radio.

WITH SHAKER FACTORY AMPLIFIER:

NOTES:

- The RCA connectors labeled SUB IN can be used to feed the subwoofer channel of the factory amplifier.
- **SHAKER 1000 only**: The RCA connector labeled CENTER IN can be used to feed the second subwoofer channel.
- **THX only**: The RCA connector labeled CENTER IN can be used to feed the center channel of the factory amplifier.

WITHOUT SYNC ONLY:

- The RCA connectors labeled AUX IN can be used to retain the factory 3.5 mm audio jack. Connect to the auxiliary input of the aftermarket radio.

STEP 5

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

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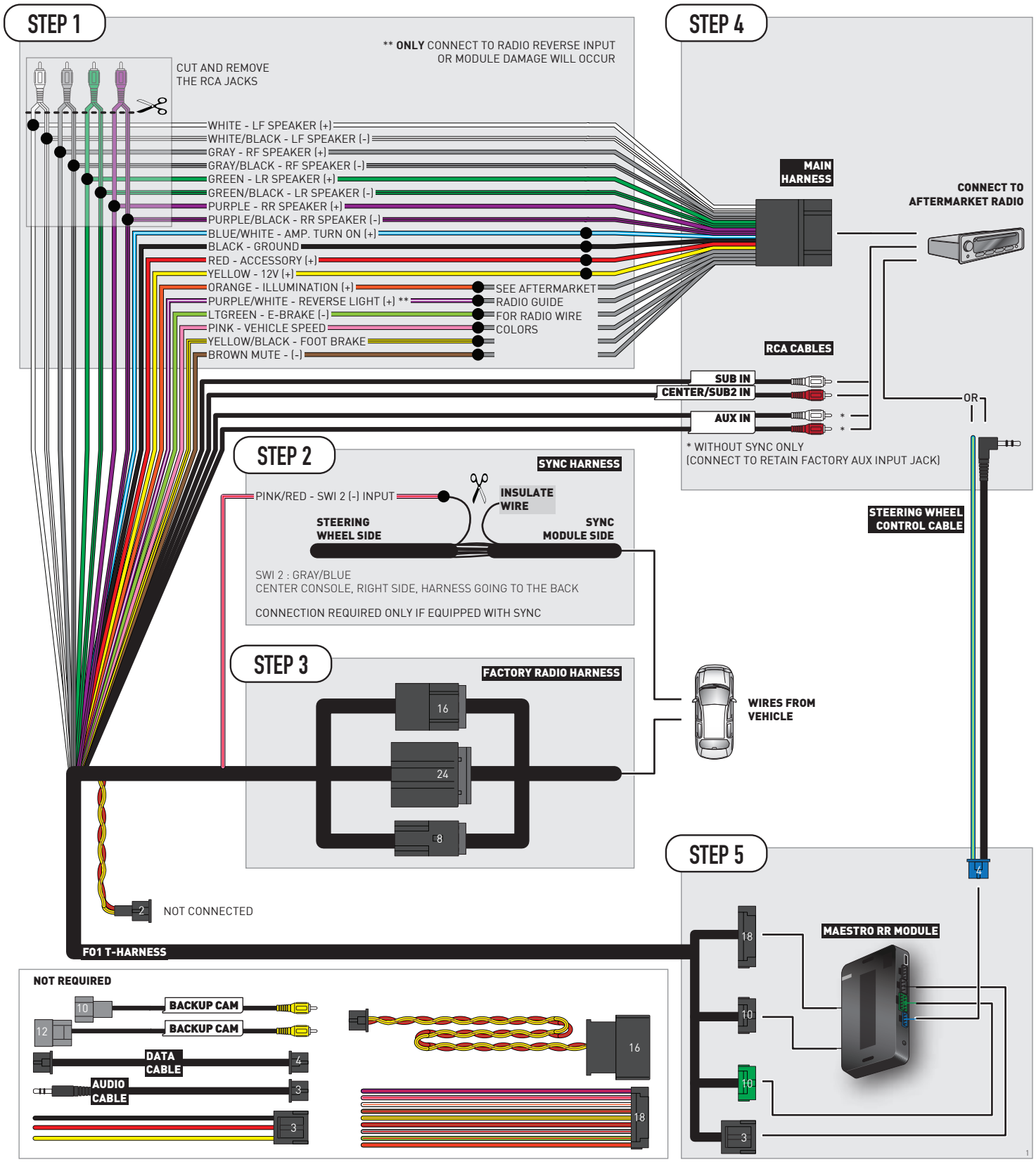
WIRING DIAGRAM



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 OR Key1, Key2, Ground Wires
Maestro Steering Wheel Control Cable	(DATA)	3.5mm Jack	3.5mm SWC Input Port	Not Connected (secure the jack)	Not Connected (secure the jack)	Not Connected (secure the jack)
	(DATA)	Blue/Yellow Wire	Not Connected	SWI1 Input	Blue/Yellow Wire	SWI1 Input or Key1 Input

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

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 P1 /2

PROBLEM	SOLUTION
Steering wheel controls do not work but LED on the Maestro does blink when steering wheel buttons are pressed.	Verify the buttons are set up in the flash. If any button is set to "none" for "press once", it will do nothing. "Hold" column can be left as none and the "press once" function will operate with one press and when holding the button. Ensure the blue 4-pin steering wheel control cable is connected between the Maestro and the radio. The radio will use either the 3.5mm jack OR the blue/yellow wire, not both. Connect the 3.5mm jack from the Maestro blue 4-pin cable to the radio's 3.5mm port (labeled steering, remote, or wheel). If no such port exists, wire the blue/yellow to blue/yellow (Kenwood/JVC) or to the radio's Key 1 wire (brands not listed/other) and secure the 3.5mm jack. It will not be used. Refer to radio's owner's manual to verify if the radio has this function: **Alpine** models with button learning (SWI1/2/GND wires on back of radio): Connect blue/yellow wire from the blue 4-pin to the radio's SWI1 input. Manually learn the buttons to the radio in the radio steering wheel control menus. **JVC/Kenwood** - Steering Wheel Control (ON/OFF): choose ON **Nakamichi** – if model is listed, ensure PAC mode is on. If "other", learn the buttons in the radio steering wheel menu. **Sony** - Steering Wheel Control (Custom/Preset): choose Preset. If phone buttons do not operate properly, flash the module as Pioneer – 2009 and newer with BT. Then select "custom" instead of "preset" and learn the buttons in the radio menu. **Other brands** – radio should have a steering wheel menu to learn the buttons. You may have to select type A/B/C/1/2/3 and try learning again if buttons are not saving. Refer to radio manufacturer's tech support for further advice if not learning properly.
Radio does not turn on.	Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow. If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully.
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No backup camera image.	If radio is not switching to reverse input screen, verify purple/white wire from F01 harness is connected to radio reverse input wire. If radio switches but displays a blank screen, verify the 10 or 12 pin camera connector is fully seated and plugged into the correct input on the radio. If factory cam was displayed in the mirror, it will continue to display there. It will not display on the aftermarket radio.

TROUBLESHOOTING TABLE P2 /2

MAESTRO RR RESET PROCEDURE:

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

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