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

2011-2014
MAZDA 2

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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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.

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Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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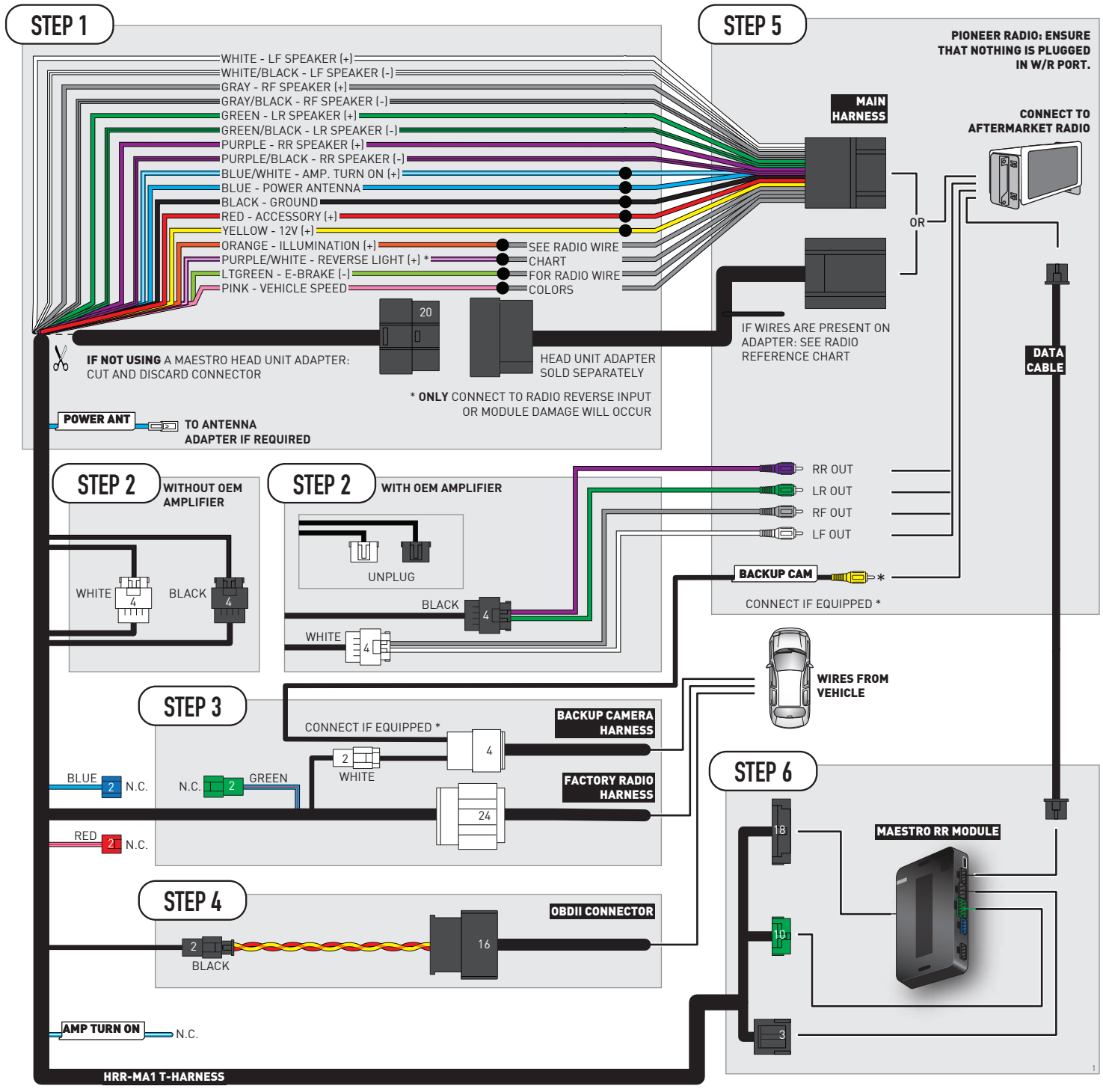
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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

2004-2013
MAZDA 3

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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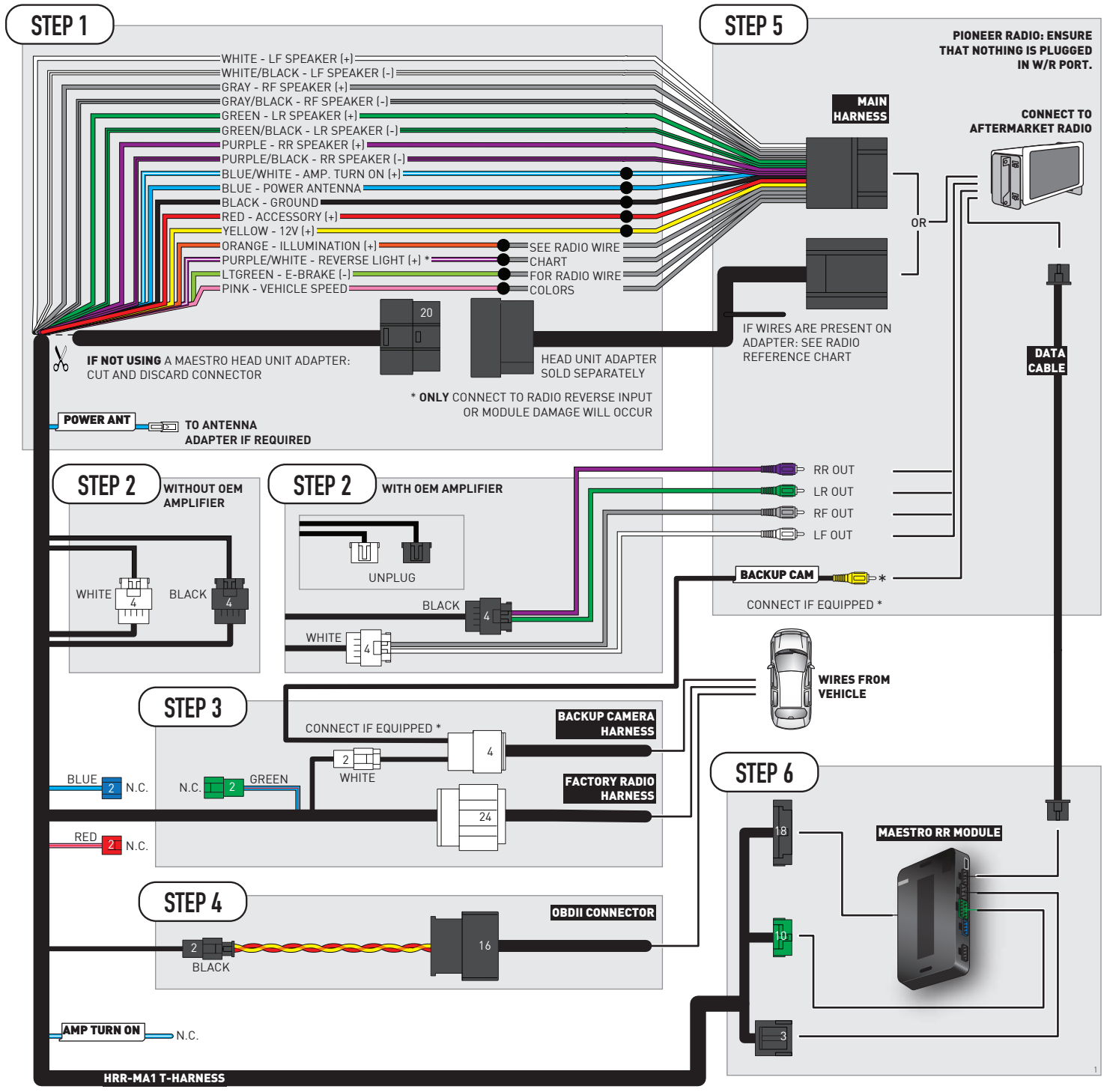
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

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

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, **when a steering wheel button is pressed** : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do NOT use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
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Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
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IMPORTANT: To ensure proper operation, the aftermarket radio needs to have the latest firmware from the manufacturer. Please visit the radio manufacturer's website and look for any updates pertaining to your radio.

INSTALL GUIDE

2014-2018
MAZDA 3
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

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ADS-RR(SR)-MA1-DS

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Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

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- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue 2-pin connector is not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector. Connect the other end of the blue/red wire to PIN-F of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 7

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

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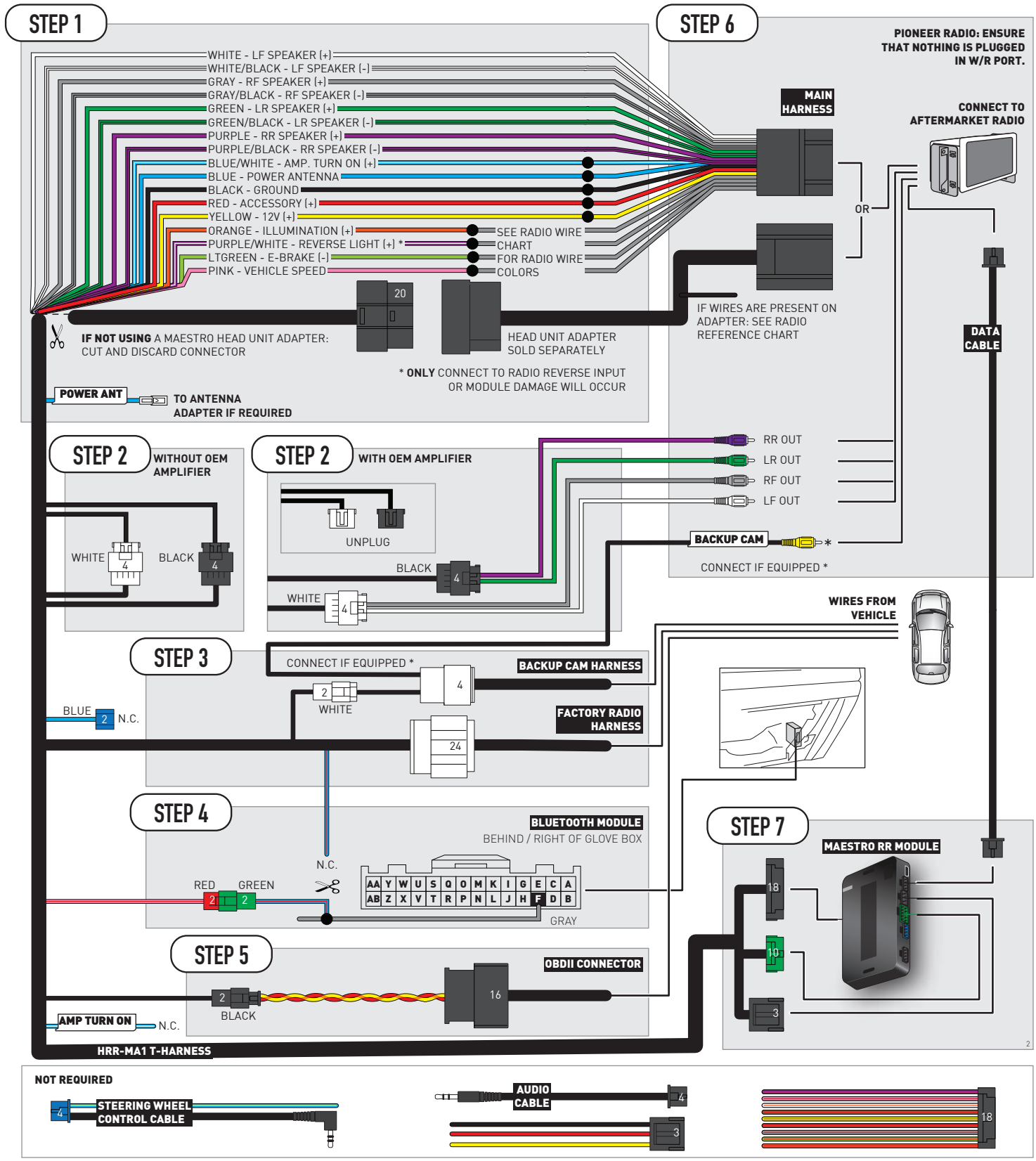
WIRING DIAGRAM



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The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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
MAZDA 5

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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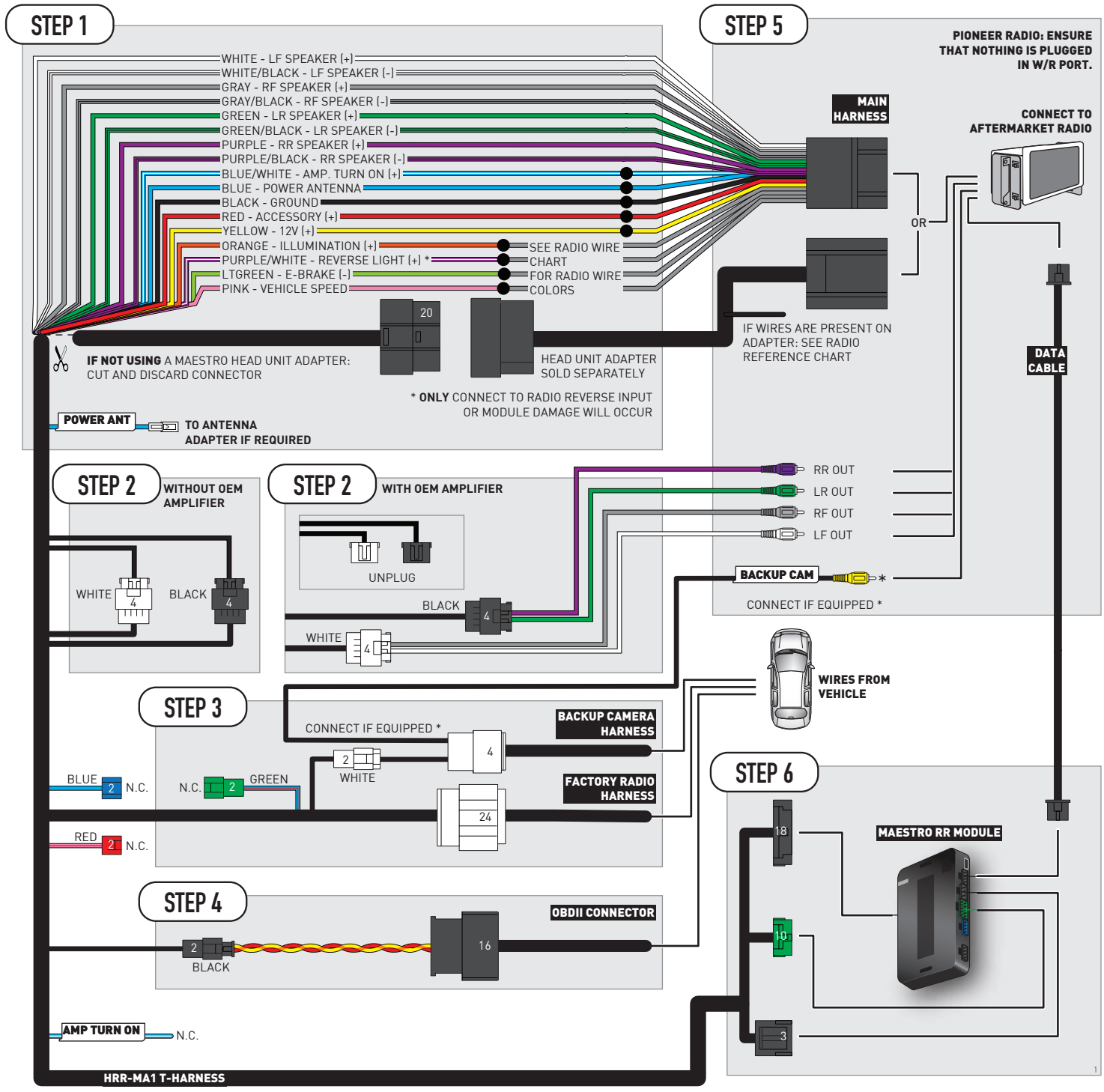
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2015
MAZDA 5

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue 2-pin connector is not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector. Connect the other end of the blue/red wire to PIN-F of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 7

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

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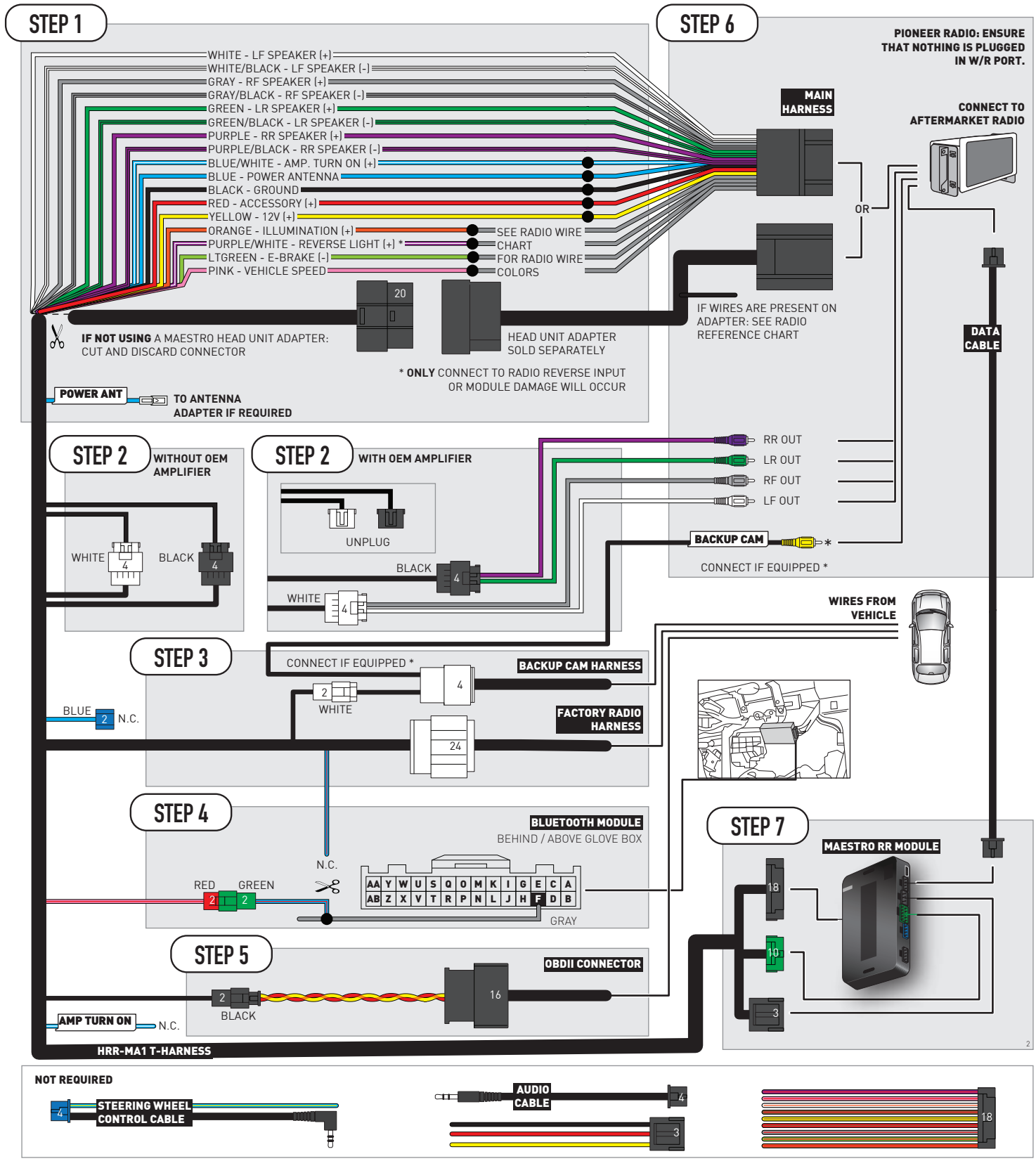
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2016-2017
MAZDA 5
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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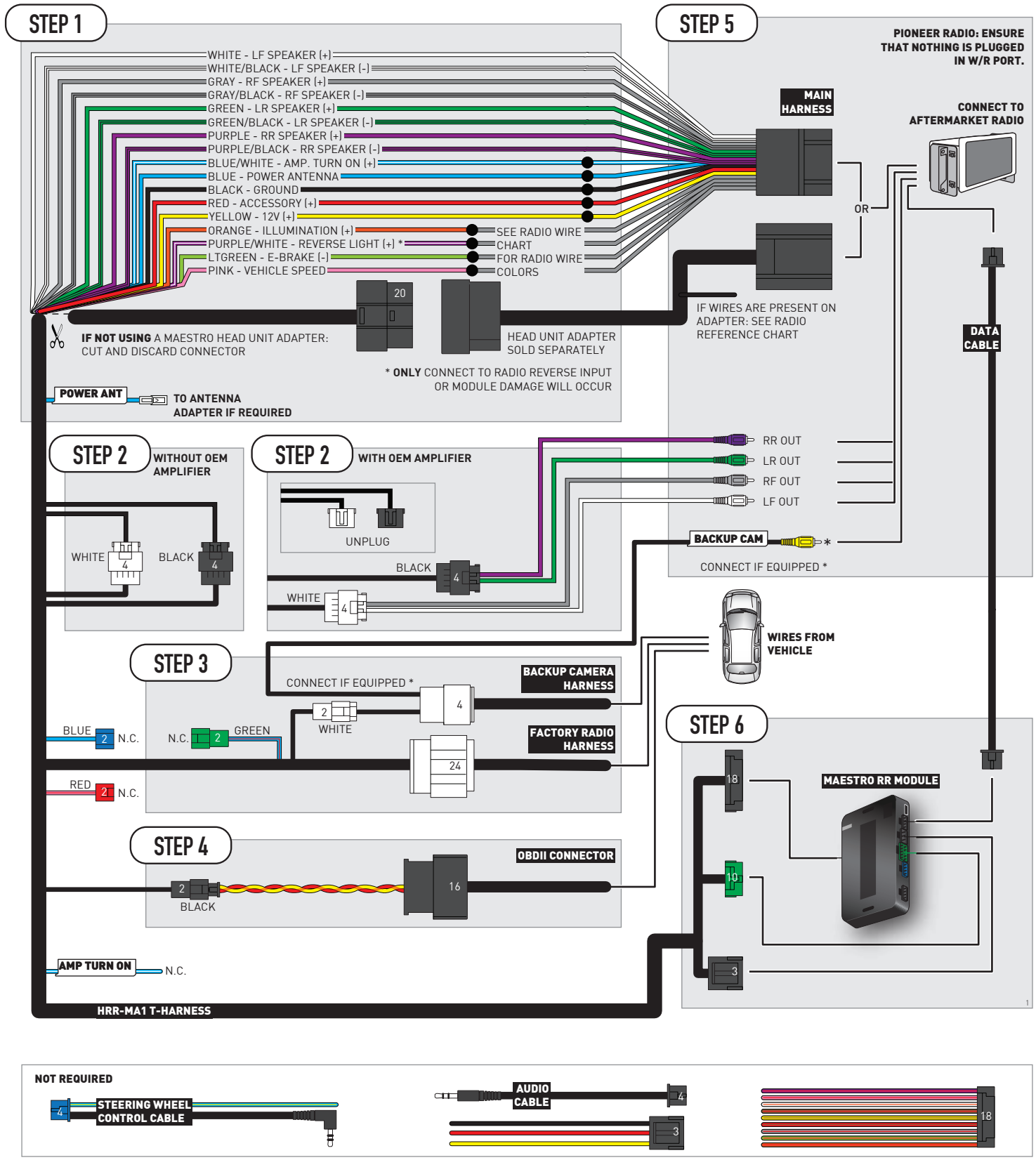
WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
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ACC-HU-ALP1 Wire Description	Polarity	Wire Color on Adapter	Alpine Radio
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ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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

2003-2013
MAZDA 6

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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Installation Instructions	3
Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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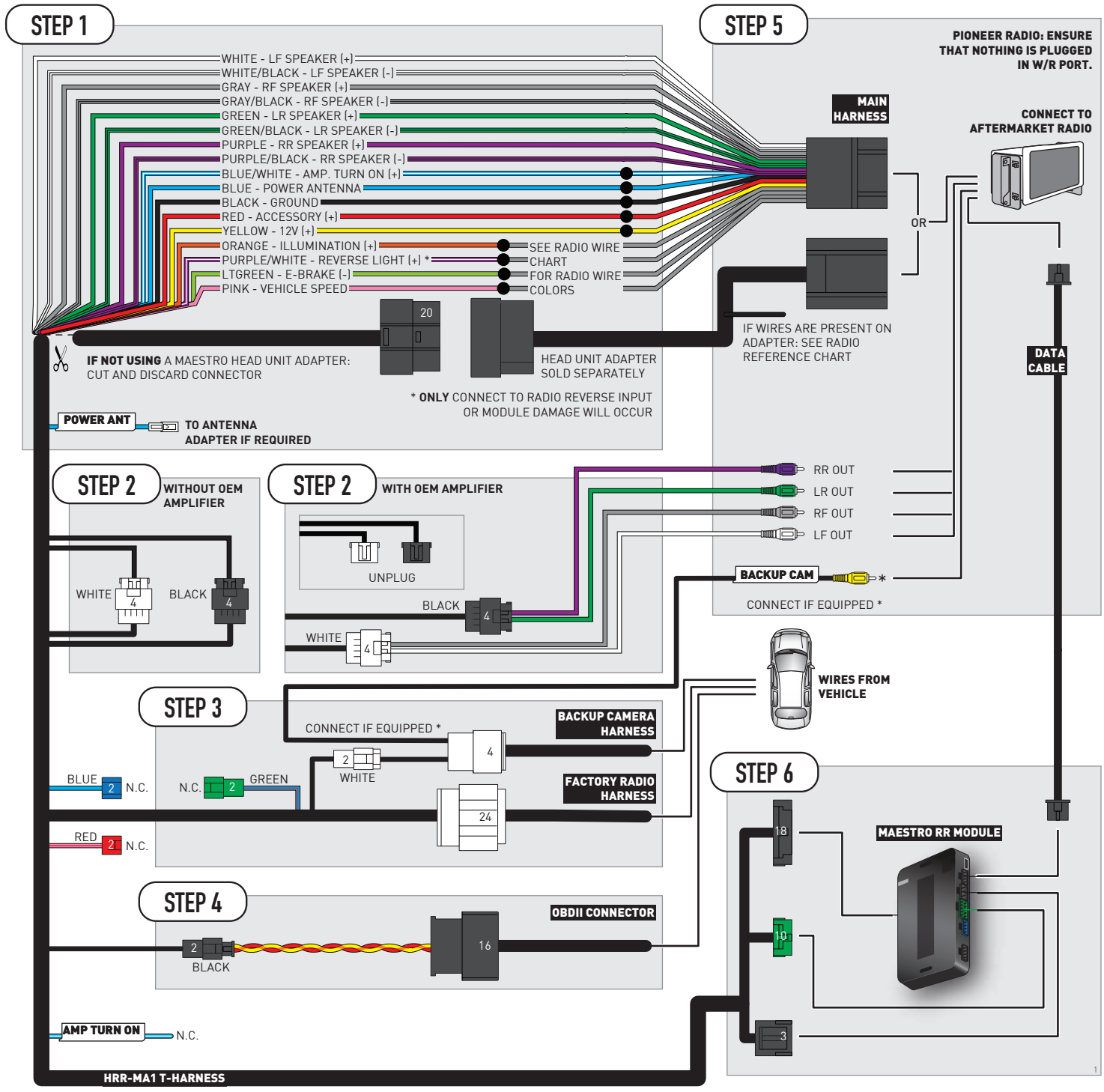
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2014-2015
MAZDA 6
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- Connect the green MA1 connector to the red 2-pin connector. The blue, 2-pin connector is not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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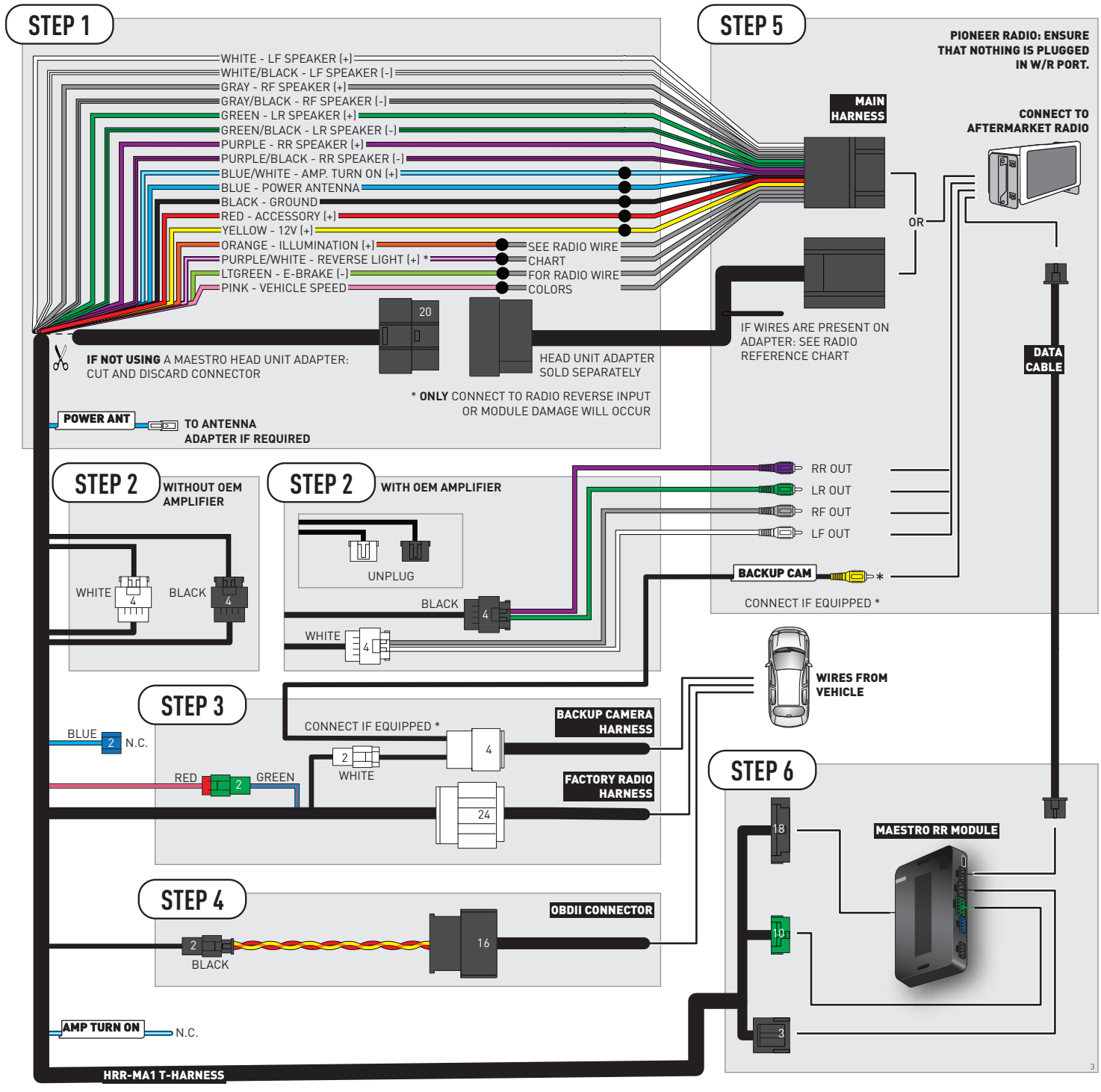
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2016-2017
MAZDA 6
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

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iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

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1 866 427-2999

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Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue 2-pin connector is not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector. Connect the other end of the blue/red wire to PIN-F of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 7

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

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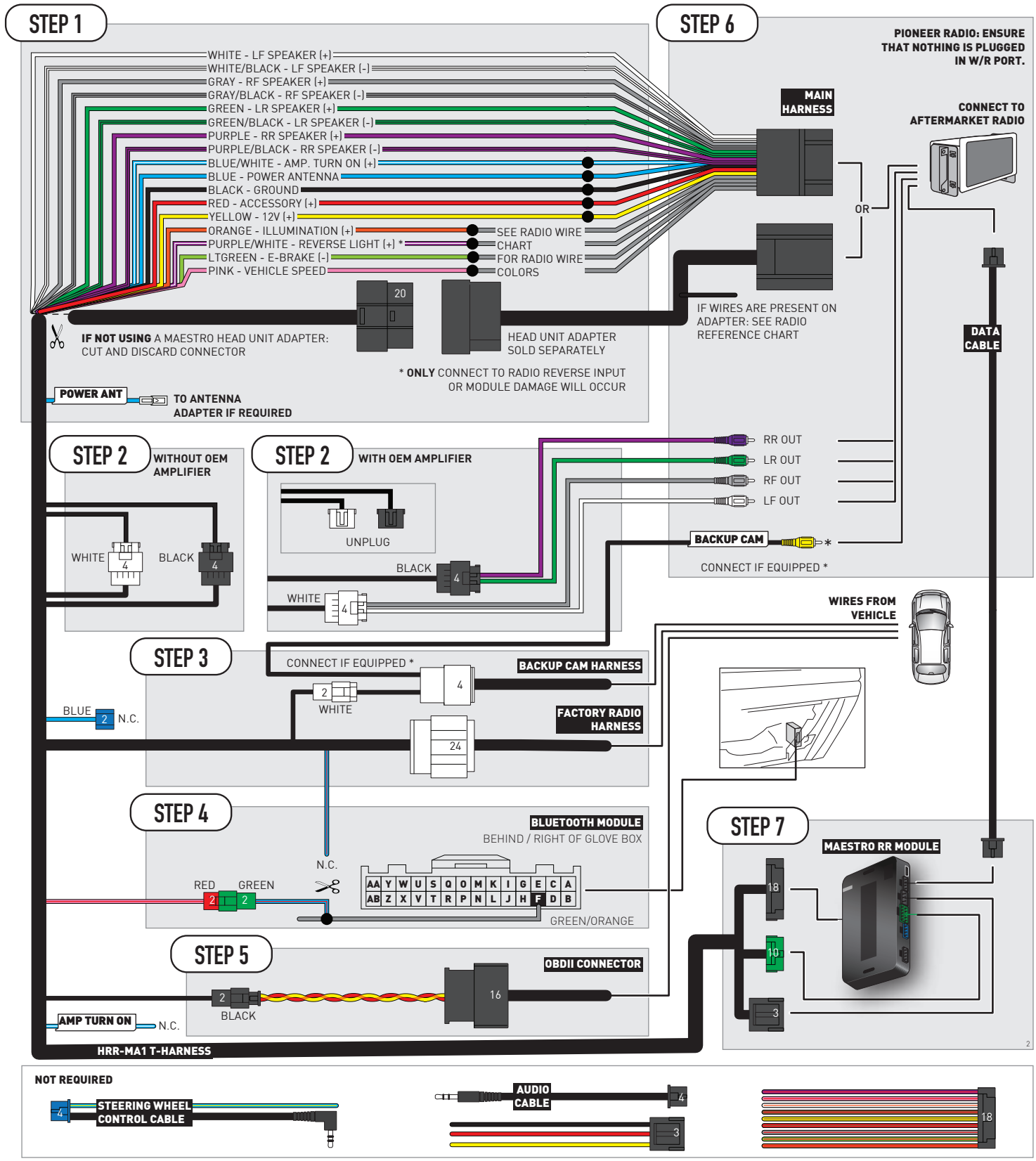
WIRING DIAGRAM



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

Head unit adapter wiring (optional accessory, sold separately)

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

ACC-HU-KEN1 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Steering Wheel Controls	(DATA)	Blue/Yellow	n/a

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

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

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●		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).

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2016-2020
MAZDA CX-3
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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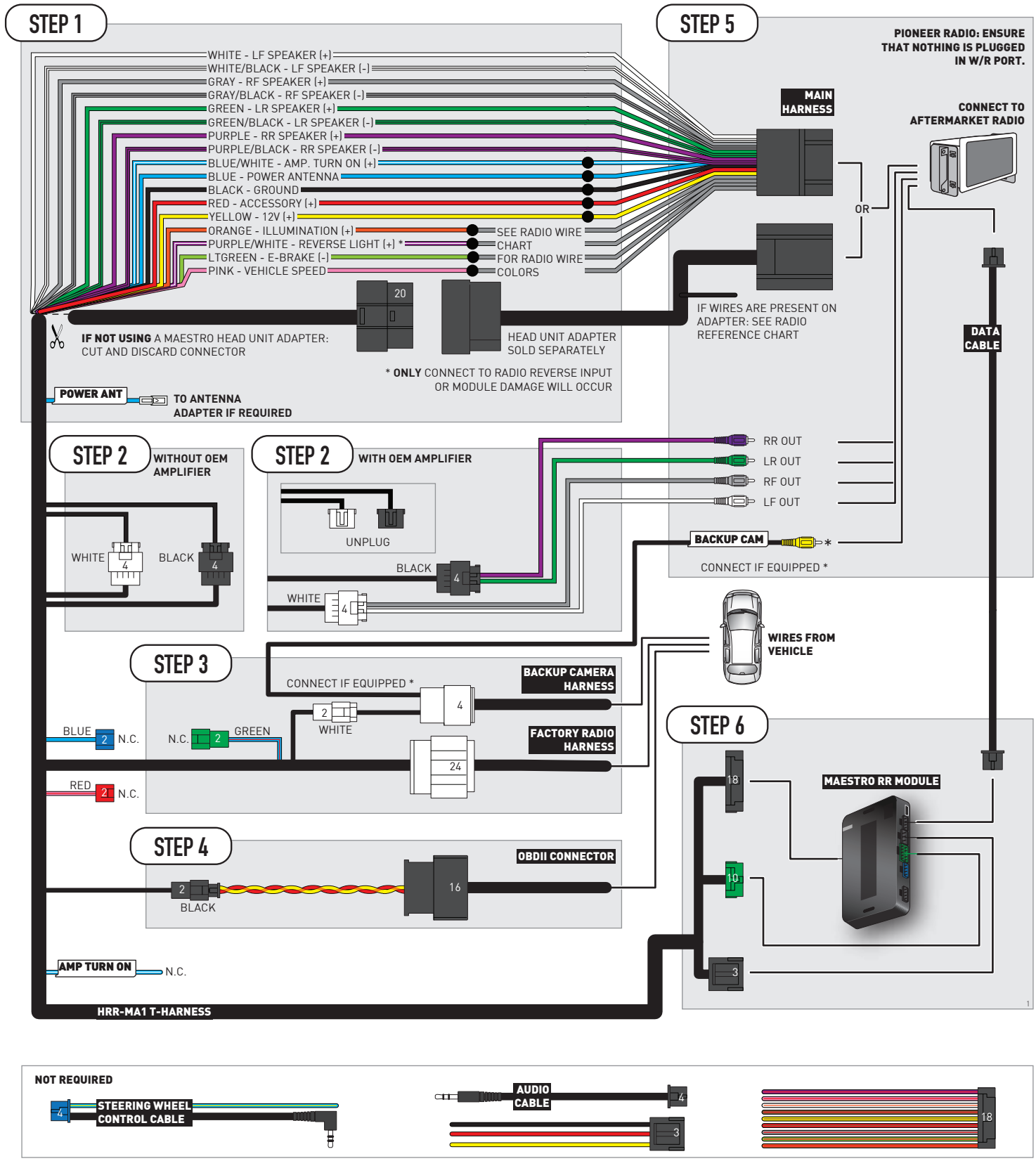
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2012-2015
MAZDA CX-5

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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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.

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- Connect the green MA1 connector to the red 2-pin connector. The blue, 2-pin connector is not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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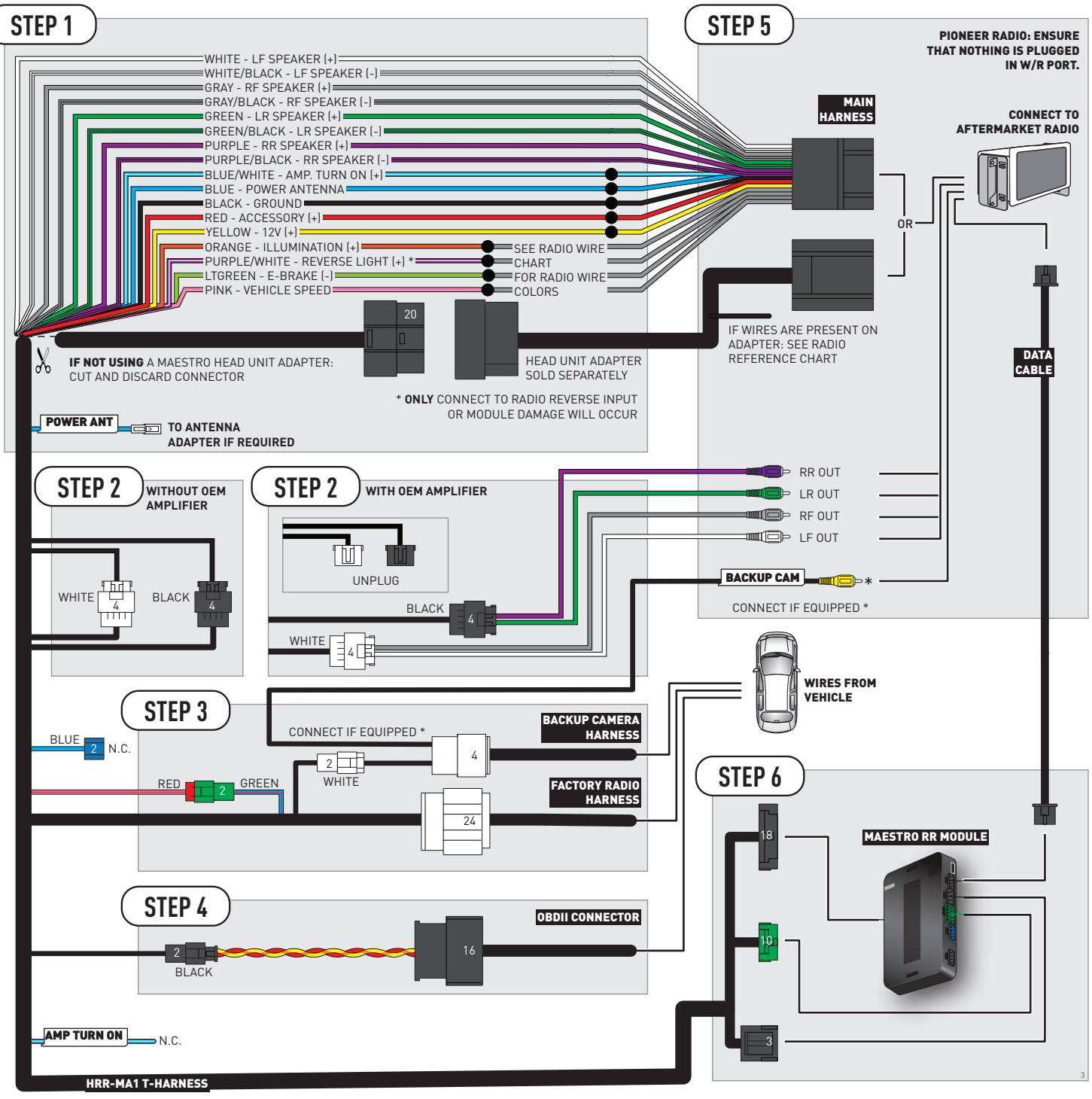
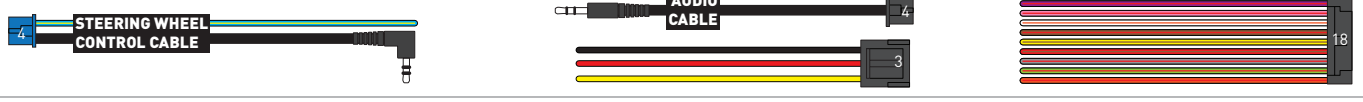
WIRING DIAGRAM



NOT REQUIRED



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
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Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
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INSTALL GUIDE

2016-2020
MAZDA CX-5
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

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NEED HELP?

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

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- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue and white 2-pin connectors are not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector.

Connect the other end of the blue/red wire to PIN-F of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the harnesses into the aftermarket radio.
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

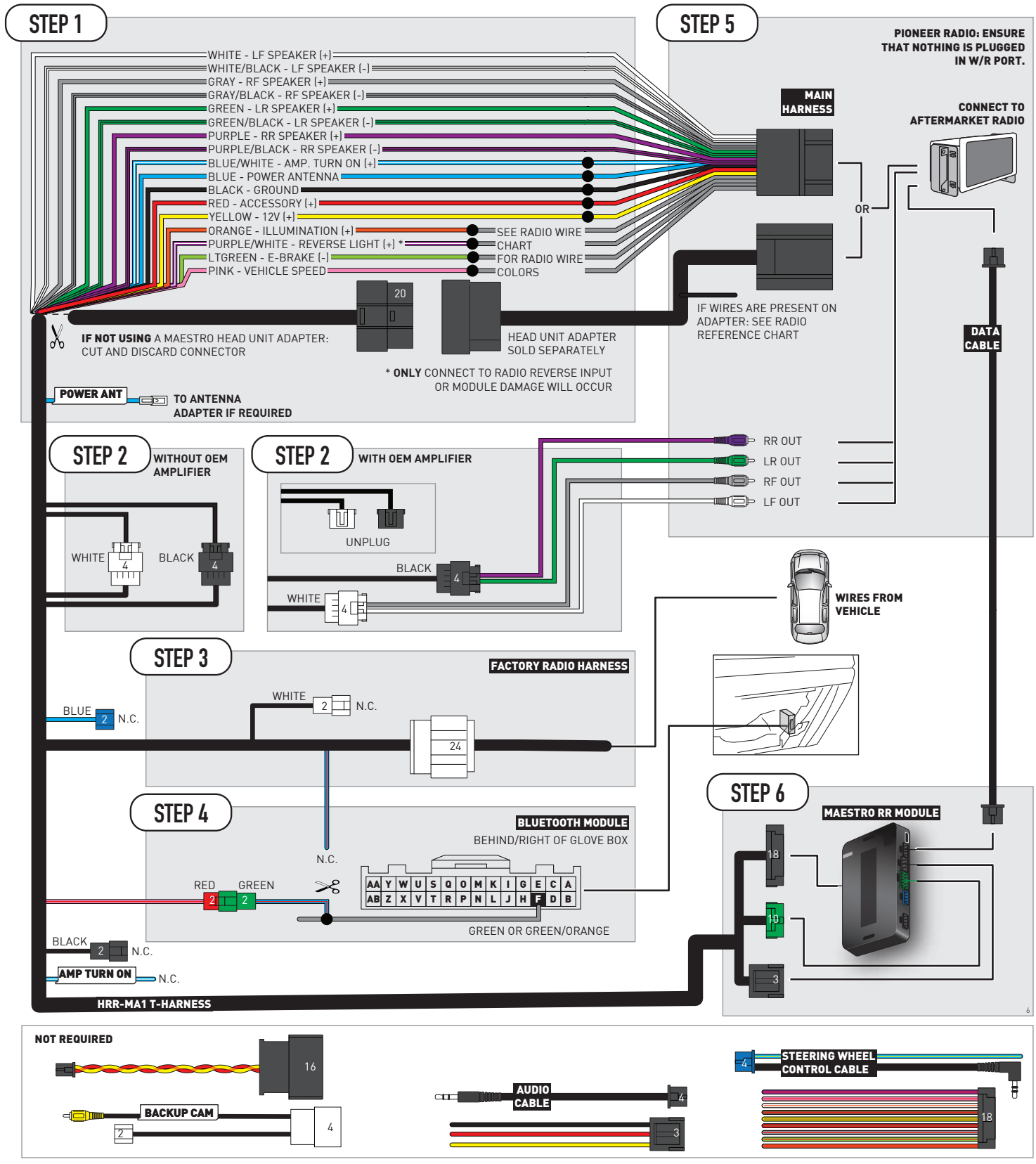
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

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

6

WIRING DIAGRAM



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

Head unit adapter wiring (optional accessory, sold separately)

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

ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
E-Brake	(-)	LtGreen	LtGreen
Reverse Light*	(+)	Purple/White	Purple/White
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* Reverse light wire: Only connect to radio or module damage will occur.

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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

2007-2008
MAZDA CX-7
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

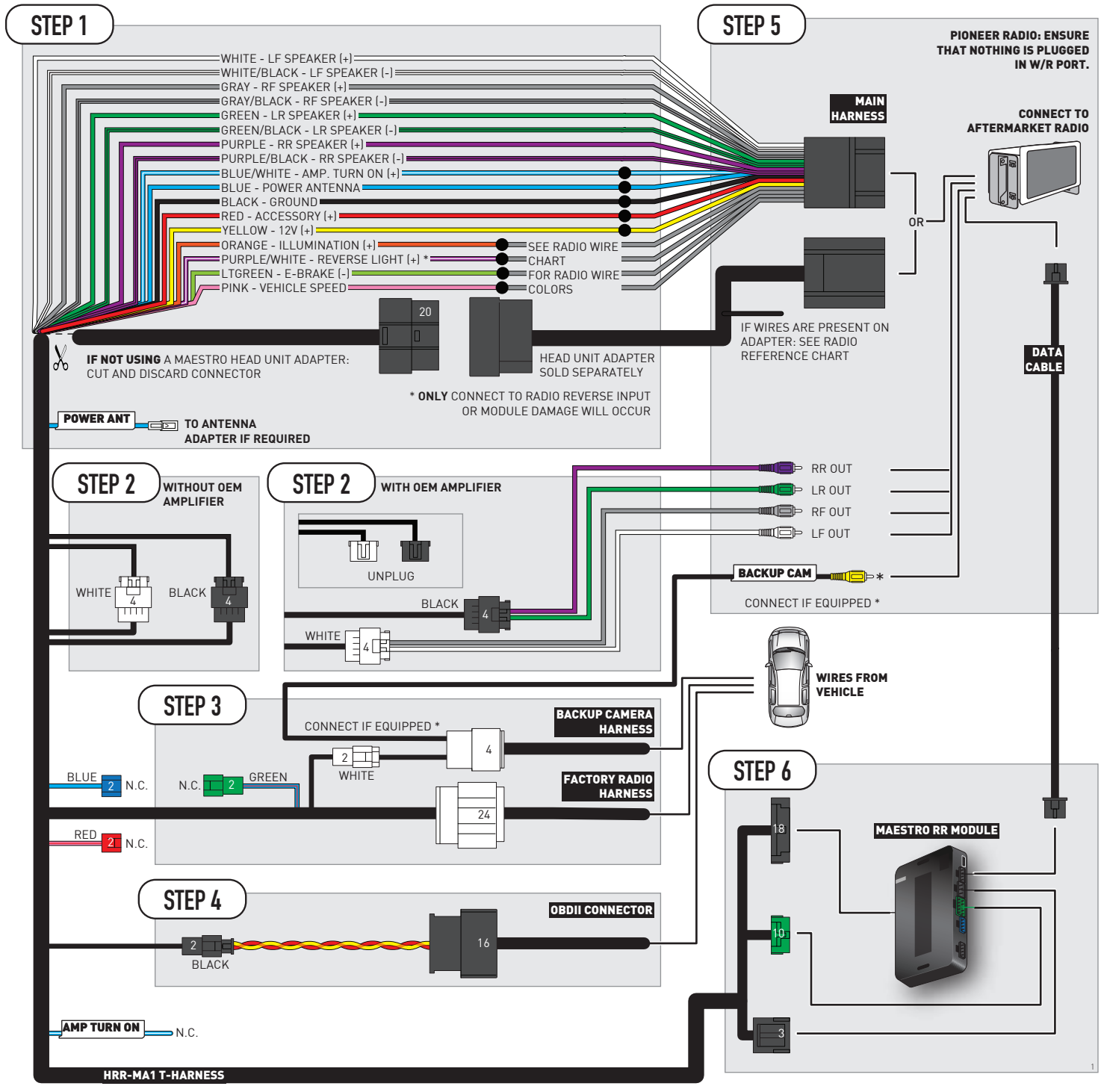
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

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

1

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
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Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2009
MAZDA CX-7
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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WELCOME

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue 2-pin connector is not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector. Connect the other end of the blue/red wire to PIN-K of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

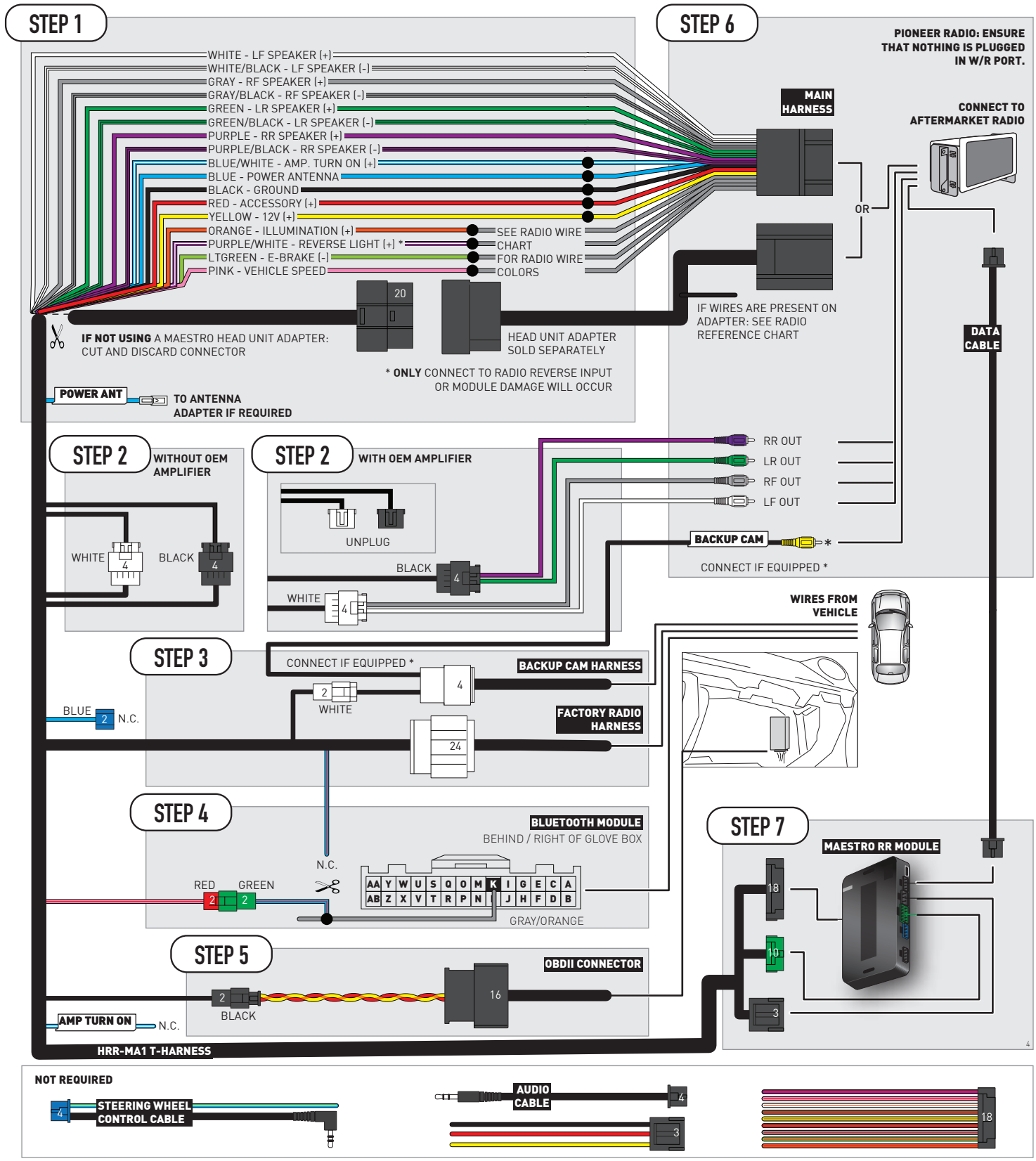
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 7

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

4

WIRING DIAGRAM



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

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

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VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
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TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
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Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
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INSTALL GUIDE

2010-2012
MAZDA CX-7
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

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- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
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- The blue 2-pin connector is not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector. Connect the other end of the blue/red wire to PIN-F of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

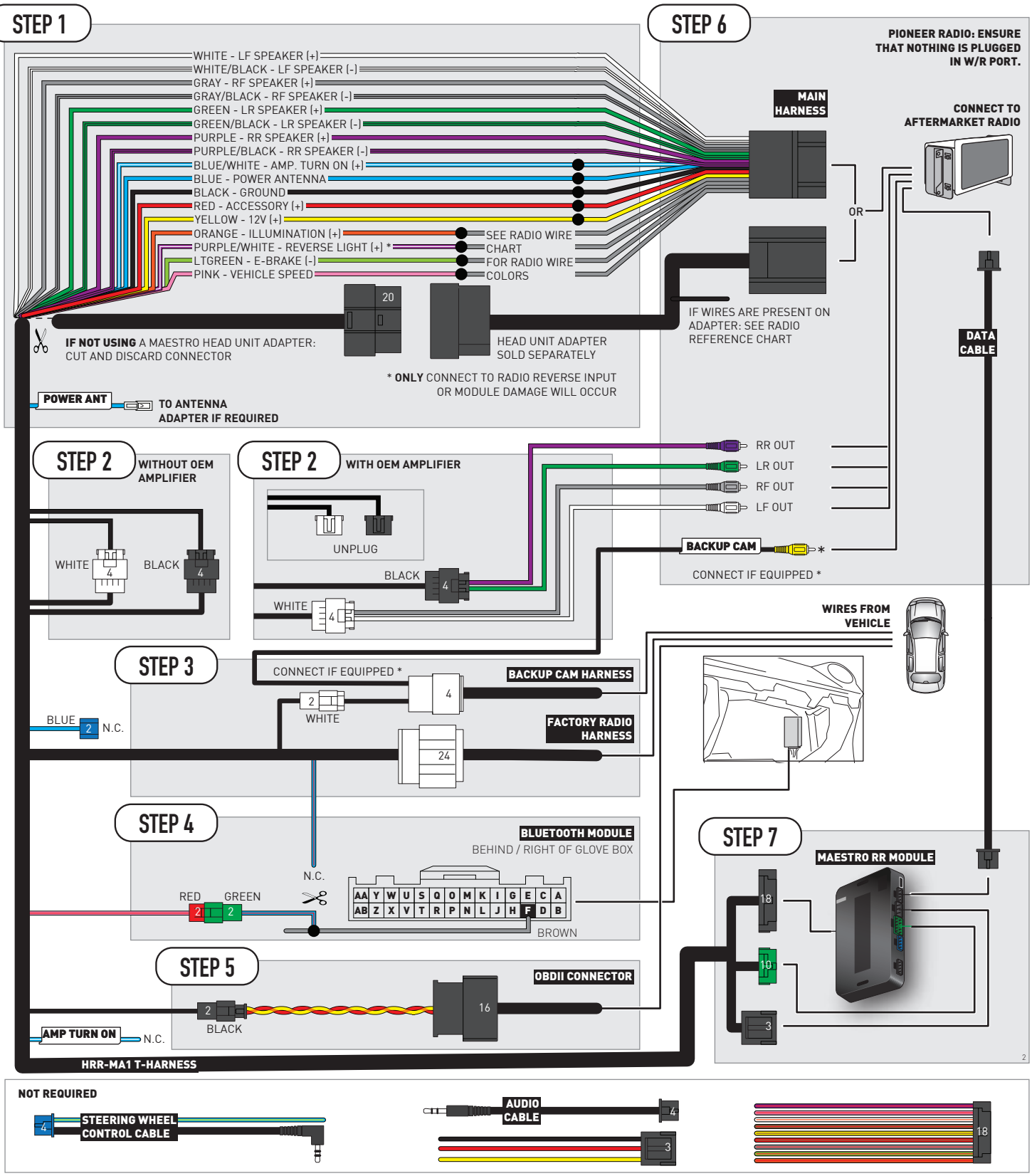
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 7

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

Automotive Data Solutions Inc. © 2023

WIRING DIAGRAM



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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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

2007-2008
MAZDA CX-9
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue 2-pin connector is not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector. Connect the other end of the blue/red wire to PIN-K of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

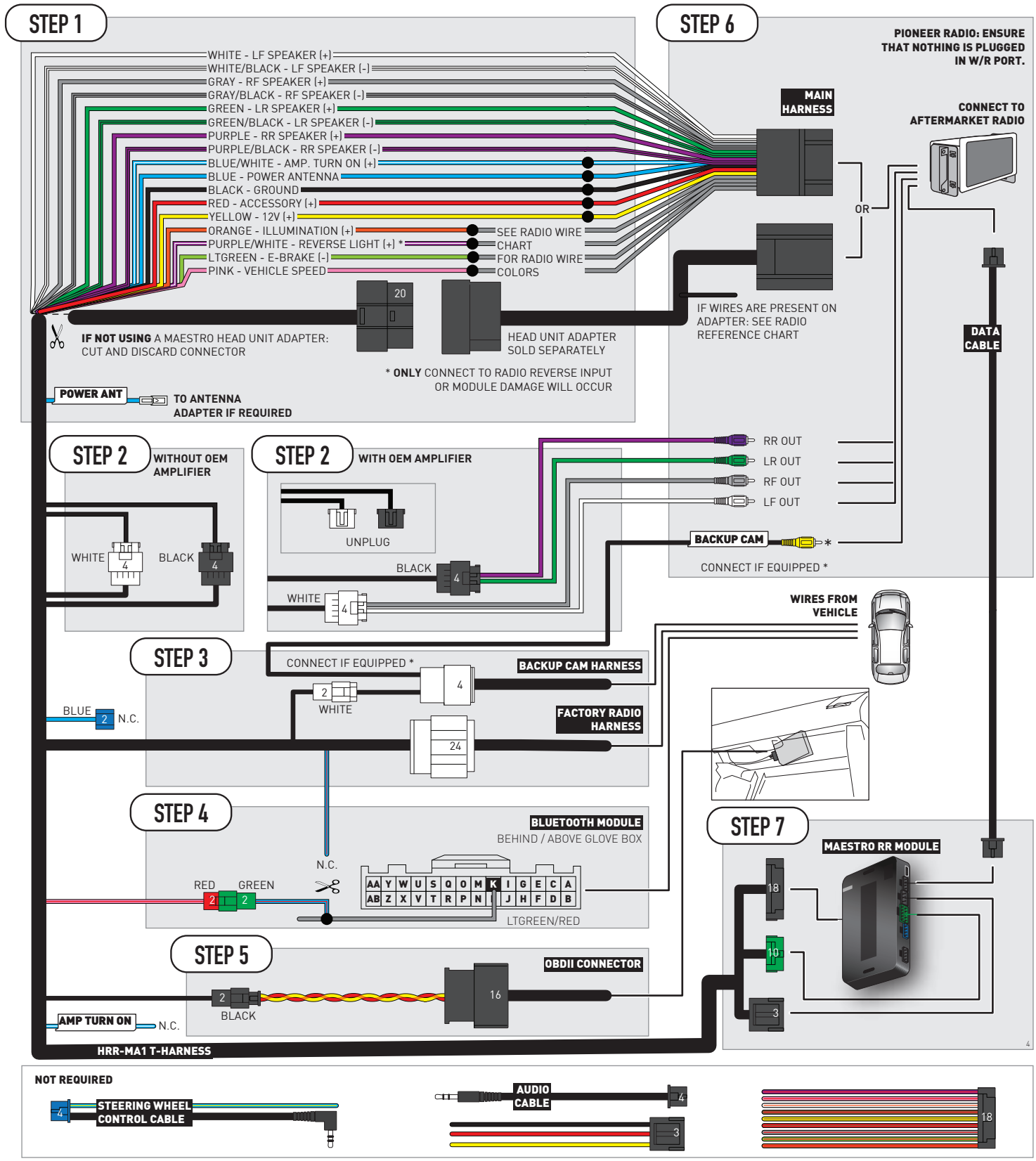
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 7

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

4

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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
MAZDA CX-9
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

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Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue 2-pin connector is not used.

STEP 4

- Plug the HRR-MA1 red connector to the green 2-pin connector.
- Cut and isolate the blue/red wire near the 24-pin connector. Connect the other end of the blue/red wire to PIN-F of the 28-pin Bluetooth module connector (refer to wiring diagram for details).

STEP 5

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 6

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 7

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

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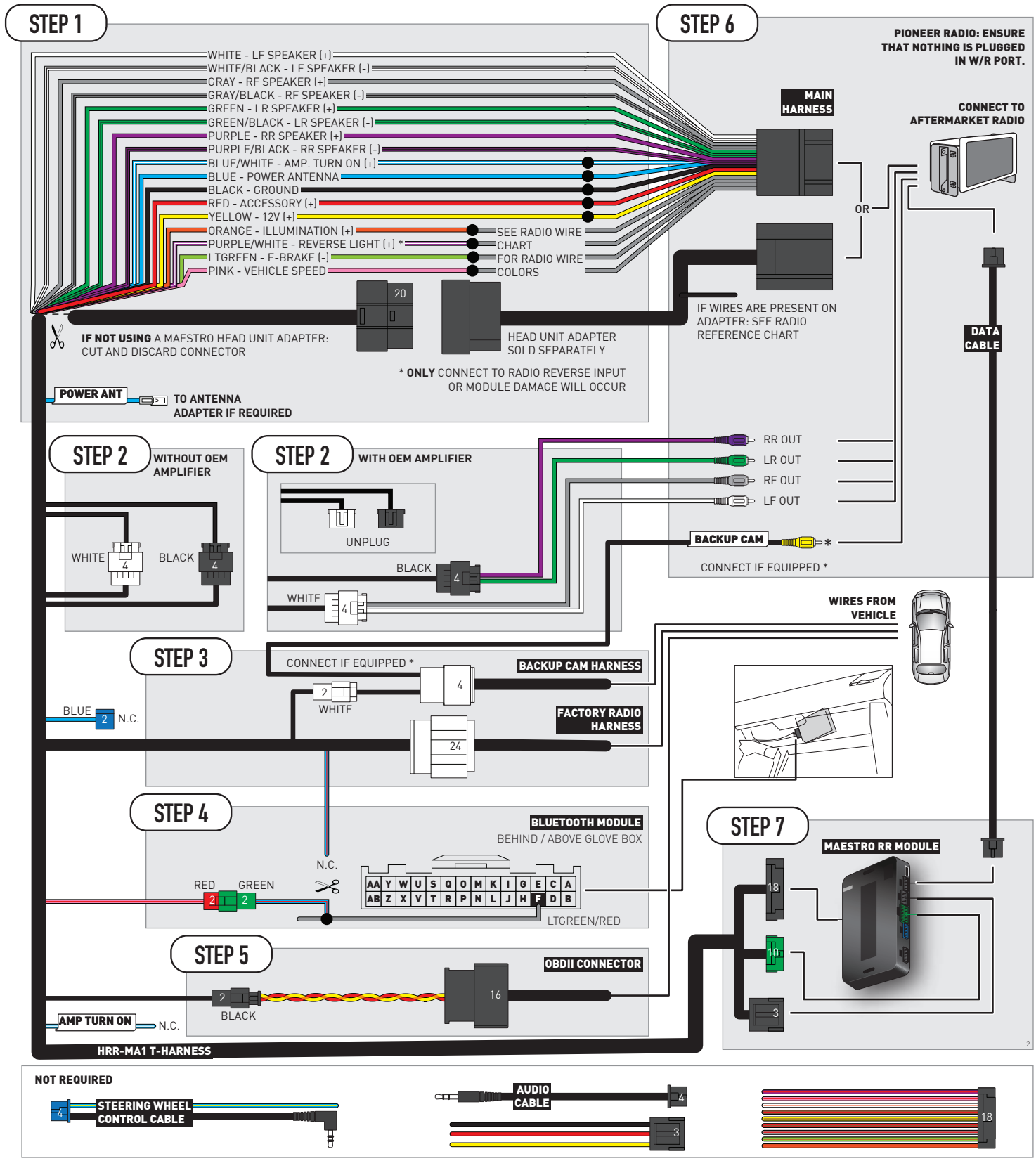
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
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Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
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The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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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

2013-2015
MAZDA CX-9
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

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NEED HELP?

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maestro.support@idatalink.com

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

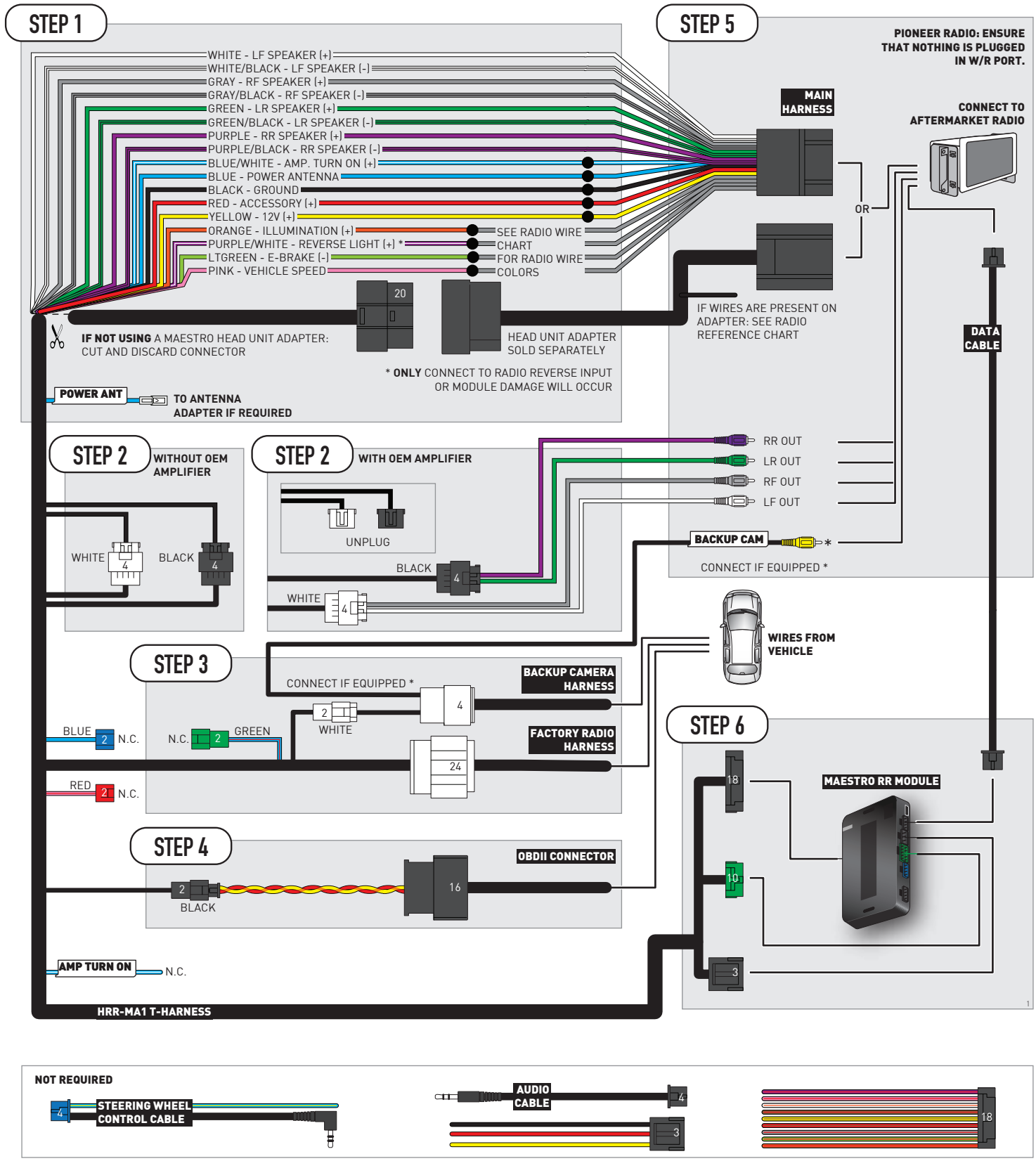
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

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

1

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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

2006-2015
MAZDA MX-5
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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.

TABLE OF CONTENTS

Installation Instructions	3
Wiring Diagram	4
Radio Wire Reference Chart	5
Module Diagnostics	6
Troubleshooting Table	7

NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- Connect the green HRR-MA1 connector to the blue 2-pin connector. The red, 2-pin connector is not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

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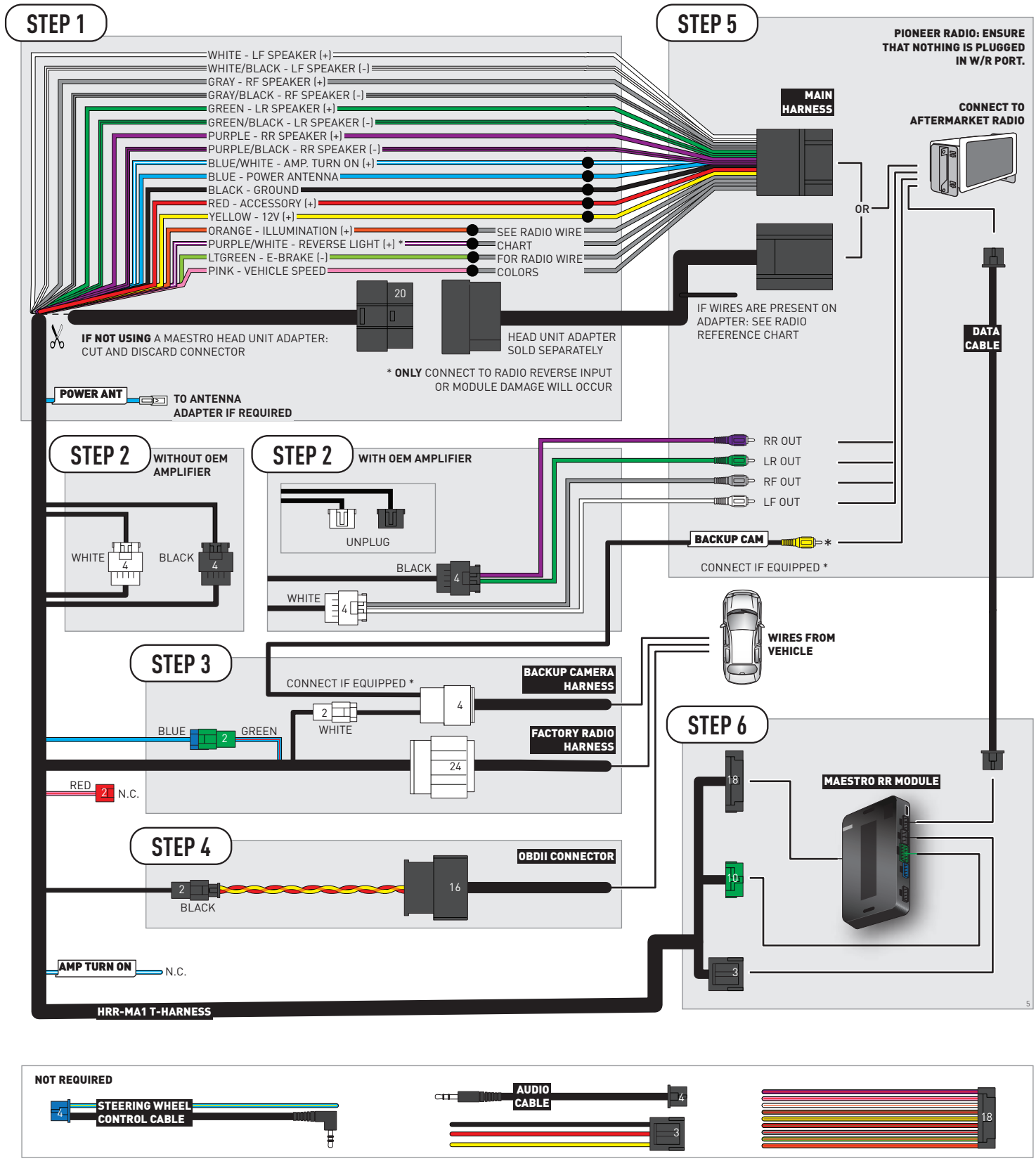
WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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MAESTRO RR RESET PROCEDURE:

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

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

INSTALL GUIDE

2016-2018
MAZDA MX-5
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

ADDITIONAL RESOURCES

Maestro RR2 Programmable Outputs Guide

OPTIONAL ACCESSORIES

K40 ELECTRONICS
ESCORT

Click here for:
Radar Installation Guides

ANTENNA ADAPTER (MAY BE REQUIRED)

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

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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.

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NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

Remove the factory radio

If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

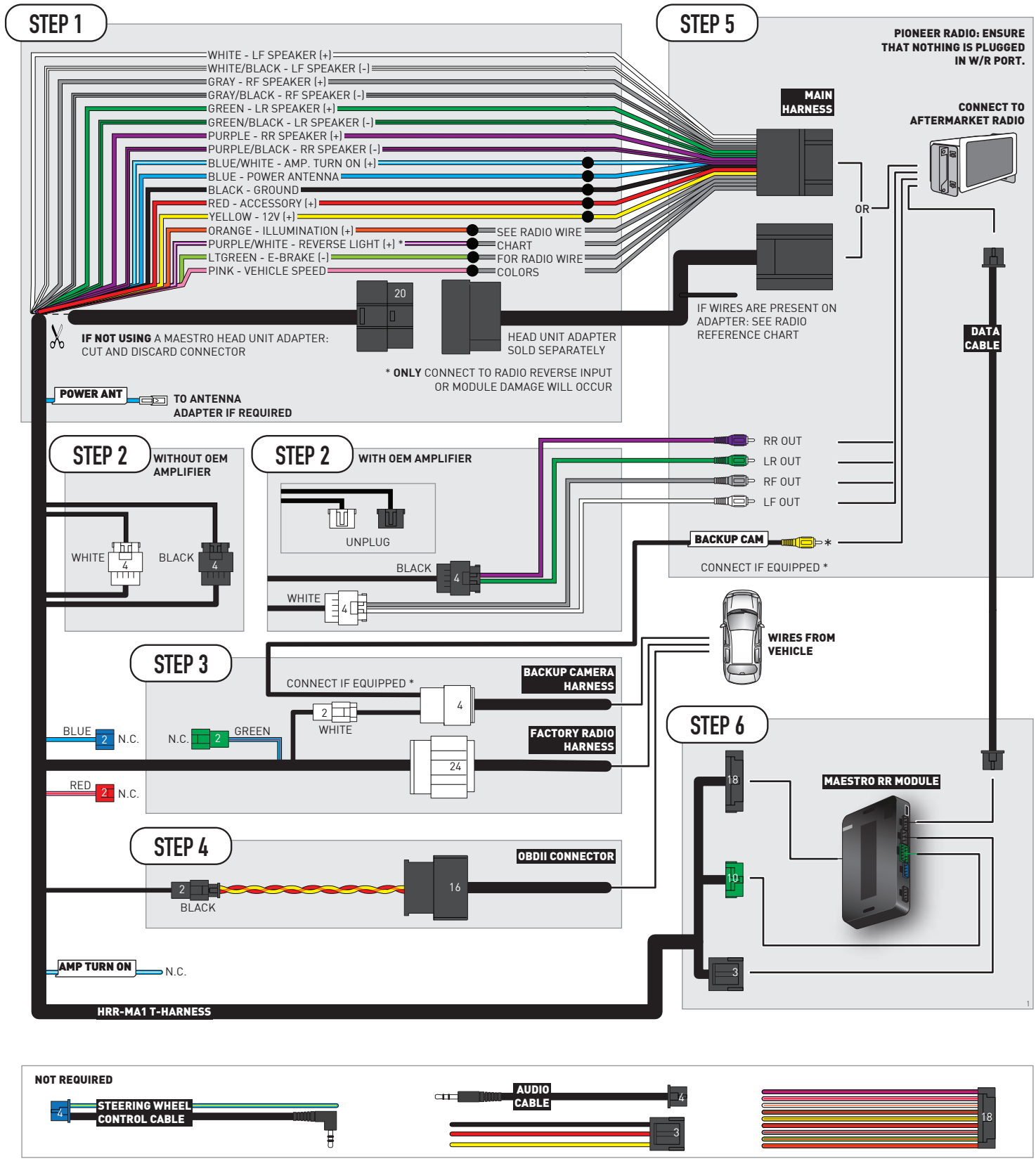
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

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

1

WIRING DIAGRAM



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Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
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Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

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LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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VIDEO HELP		Installation, product information, vehicle specific videos.
VERIFY FLASH		Last flash information, steering control configuration, vehicle information.
WEBLINK		Software to program module.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
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Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
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The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
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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

2009-2011
MAZDA RX-8
WITHOUT TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

PRODUCTS REQUIRED

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iDatalink Maestro HRR-MA1 Installation Harness

PROGRAMMED FIRMWARE

ADS-RR(SR)-MA1-DS

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NEED HELP?

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maestro.support@idatalink.com

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STEP 1

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If using head unit adapter (sold separately), connect HRR-MA1 harness to adapter and skip to step 2.

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- Cut and remove the black 20 pin connector from the HRR-MA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA1 T-harness and match the wire functions.

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

- Connect the blue POWER ANT terminal to amplified antenna adapter (if required).

STEP 2

- Determine if the vehicle has a factory amplifier. Look for badges on the radio, door panels and dash that indicate the presence of an amplifier (ex: BOSE).

If the vehicle DOES NOT have a factory amplifier:

- Leave the HRR-MA1 4-pin white and 4-pin black connectors together. The included 4-pin white and black connectors with RCAs are not used .

If the vehicle DOES have a factory amplifier:

- Unlug the HRR-MA1 4-pin white and 4-pin black connectors.
- Connect the HRR-MA1 4-pin white to 4-pin white connector with RCAs. Connect the 4-pin black to 4-pin black connector with RCAs.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

STEP 3

- If equipped with backup camera, plug the white MA1 4-pin cable to the vehicle backup camera harness. Connect the 2-pin white connector to HRR-MA1 main harness 2-pin white connector.
- Connect the factory radio harness to the HRR-MA1 T-harness.
- The blue, green and red 2-pin connectors are not used.

STEP 4

- Plug the BLACK 2-pin connector of your HRR-MA1 T-harness into the OBDII MA1 cable.
- Plug the OBDII connector into the OBDII of the vehicle.

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup cam cable into the aftermarket radio (if equipped).
- Plug the antenna adapter (if required).
- Plug the Data cable to the data port of the aftermarket radio.

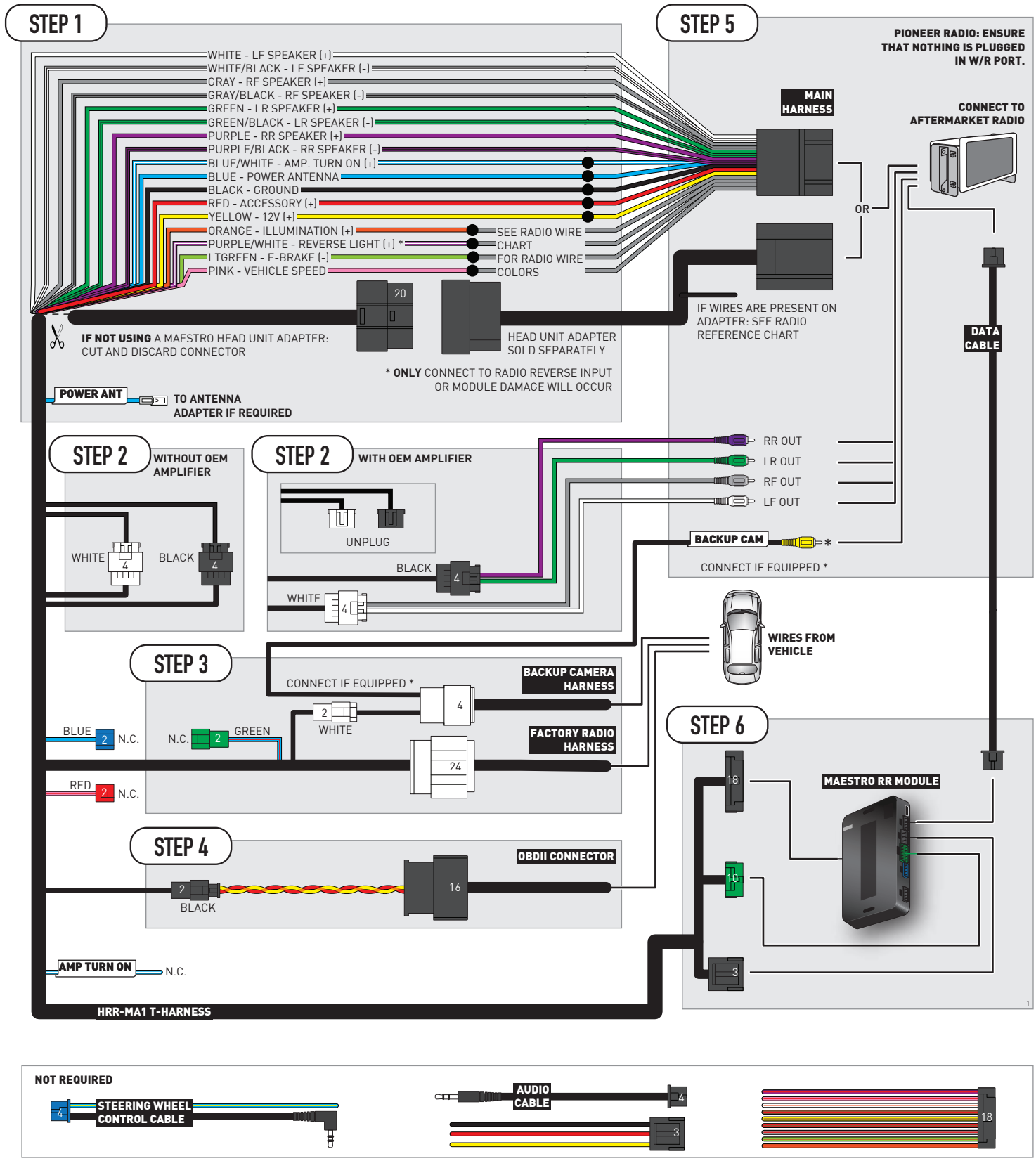
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

STEP 6

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

1

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

MA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	Ensure OBDII connector is securely attached to the OBDII connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the **RED/BROWN** wire is on **PIN 6** and the **YELLOW/BROWN** wire is connected to **PIN 14** of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended. If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options. Reset the RR.
Backup camera is not displayed.	If radio doesn't switch to camera input, ensure purple/white from the MA1 harness is connected to radio reverse input wire. If radio switches to blank image, verify yellow "BACK UP CAMERA" RCA is connected to the correct input. Most radios have a yellow "R CAM" or "CAM" input. Pioneer models may use a brown "BC IN" input. Make sure the 2-pin white connector is plugged into the MA1 T harness.
Audio is very quiet or very loud.	**Non-amplified vehicles**, ensure the white and black 4-pin connectors remain plugged in together in the harness. The 4-pin RCA adapters are not used. **Amplified vehicles**, ensure the 4-pin RCA connectors are used after separating the white and black 4-pin connectors on the MA1 harness. Plug them into the radio's RCA preouts.
The light on the Maestro is flashing **RED ONCE**.	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking **RED TWICE** and the radio **IS** turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking **RED TWICE** but the radio is **NOT** turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

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.