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.

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

maestro
HR **MA²**

HRN-HRR-MA2

INSTALLATION HARNESS
HARNAIS D'INSTALLATION
ARNÉS DE INSTALACIÓN

COMPATIBLE WITH / AVEC / CON

MAZDA
2014+

Rr Rr2

+

OR

maestro **Rr**

UNIVERSAL CAR RADIO
REPLACEMENT INTERFACE

INTERFACE UNIVERSELLE POUR
REMPLACEMENT D'AUTORADIO

INTERFAZ UNIVERSAL PARA
REEMPLAZO DEL AUTO RADIO

ADS-MRR

maestro **Rr2**

ADVANCED CAR RADIO
REPLACEMENT INTERFACE

INTERFACE AVANCÉE DE
REMPLACEMENT D'AUTORADIO

INTERFAZ AVANZADA PARA
REEMPLAZO DEL AUTO RADIO

ADS-MRR2

HEADUNIT
ADAPTER READY

**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

Radar Installation Guides

Configuring the RR2's Programmable Outputs

Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos.

VIDEO HELP

Last flash information, steering control configuration, vehicle information.

VERIFY FLASH

Software to program module.

WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
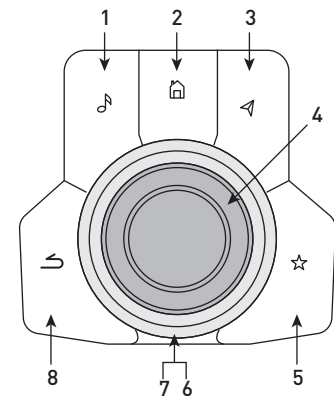
STEP 5

- 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.

- **Reconnect the negative battery terminal then test your installation.**
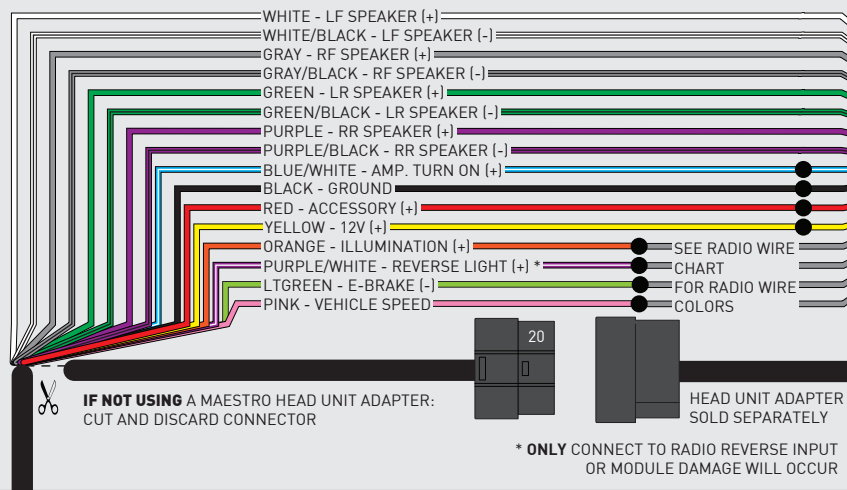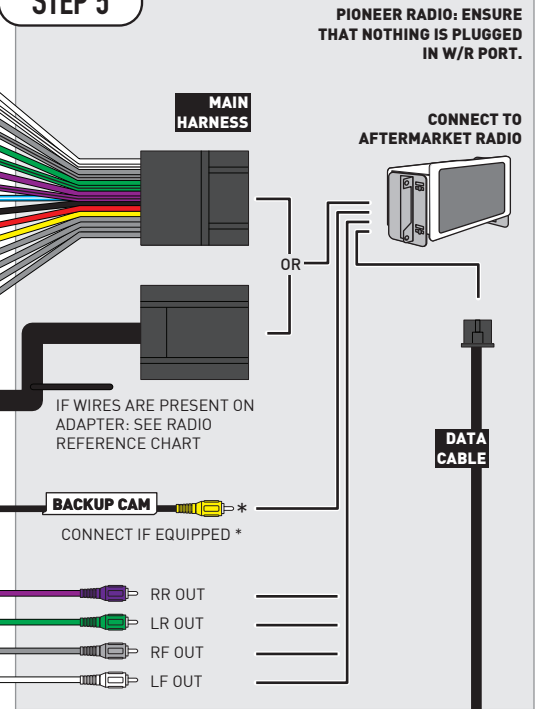
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE
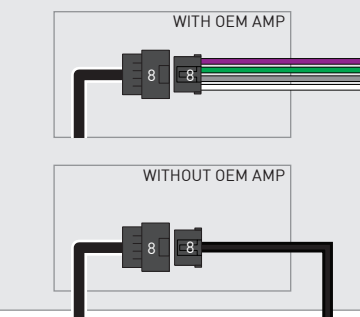
8. Back Button: GAUGES SCREEN
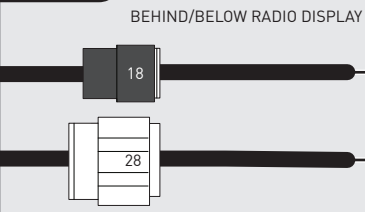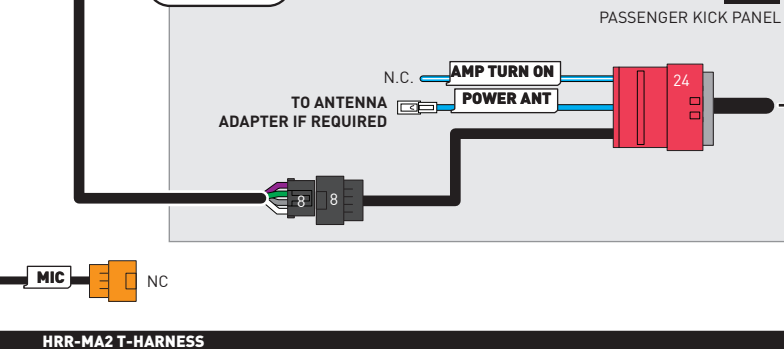
WIRING DIAGRAM

STEP 1

WHITE – LF SPEAKER (+)
WHITE/BLACK – LF SPEAKER (-)
GRAY – RF SPEAKER (+)
GRAY/BLACK – RF SPEAKER (-)
GREEN – LR SPEAKER (+)
GREEN/BLACK – LR SPEAKER (-)
PURPLE – RR SPEAKER (+)
PURPLE/BLACK – RR SPEAKER (-)
BLUE/WHITE – AMP. TURN ON (+)
BLACK – GROUND
RED – ACCESSORY (+)
YELLOW – 12V (+)
ORANGE – ILLUMINATION (+)
PURPLE/WHITE – REVERSE LIGHT (+) *
LTGREEN – E-BRAKE (-)
PINK – VEHICLE SPEED

SEE RADIO WIRE
CHART
FOR RADIO WIRE
COLORS

STEP 5

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

MAIN HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

* ONLY CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA CABLE

BACKUP CAM *
CONNECT IF EQUIPPED *

STEP 2

WITH OEM AMP

8 8

WITHOUT OEM AMP

8 8

RR OUT
LR OUT
RF OUT
LF OUT

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. AMP TURN ON
TO ANTENNA POWER ANT
ADAPTER IF REQUIRED

24

8 8

STEP 6

MAESTRO RR MODULE

18

10

3

MIC NC

HRR-MA2 T-HARNESS

NOT REQUIRED

4 STEERING WHEEL
CONTROL CABLE

3

AMP TURN ON
POWER ANT

20

8

AUDIO CABLE 4
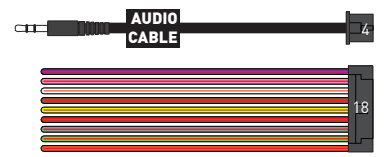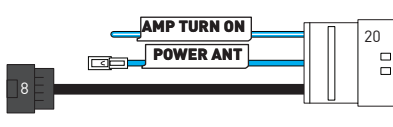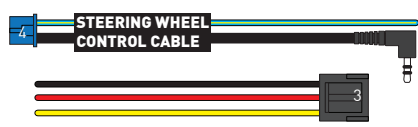
18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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 <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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

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Email: maestro.support@idatalink.com

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

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

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PROGRAMMED FIRMWARE: MA1-RR-DS

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VERIFY FLASH

Software to program module.

WEBLINK

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

   If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

- Connect the adapter's AMP TURN ON blue/white wire to tuner's white wire at pin 6 of 32-pin white connector.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
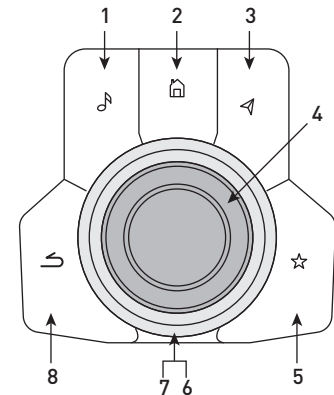
STEP 5

- 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.

- **Reconnect the negative battery terminal then test your installation.**
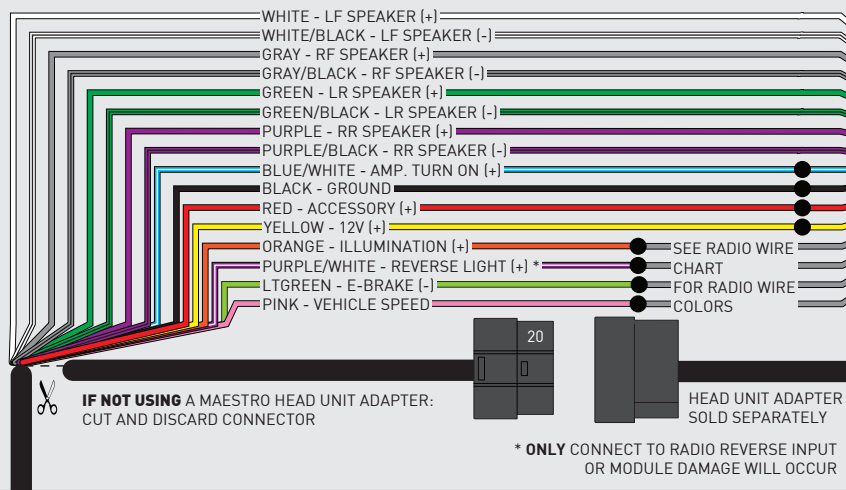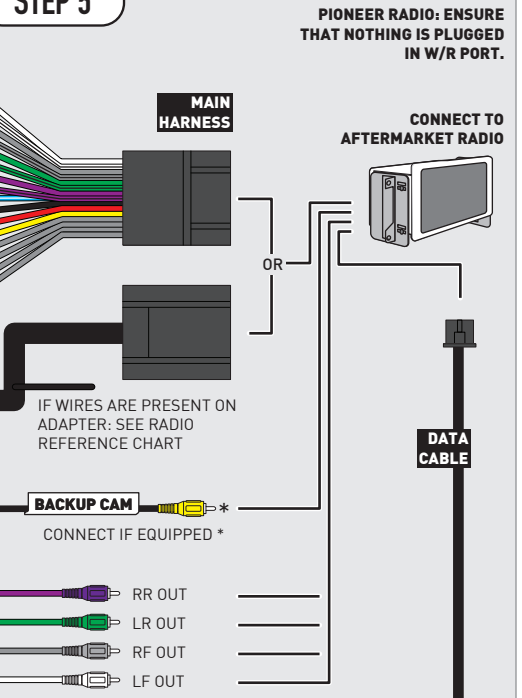
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

8. Back Button: GAUGES SCREEN

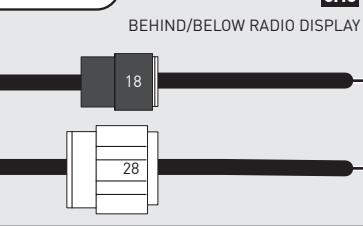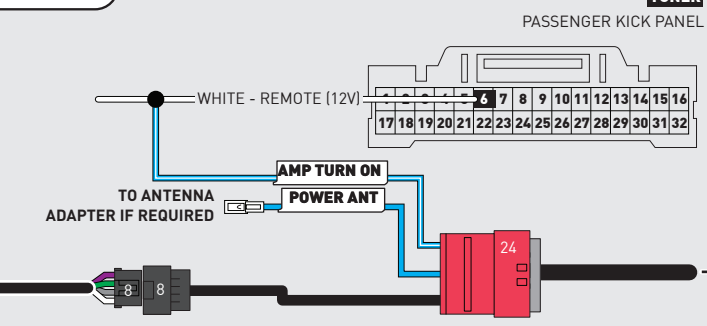MA1-RR-DS-(HRR-MA2)-EN   maestro.idatalink.com **3**
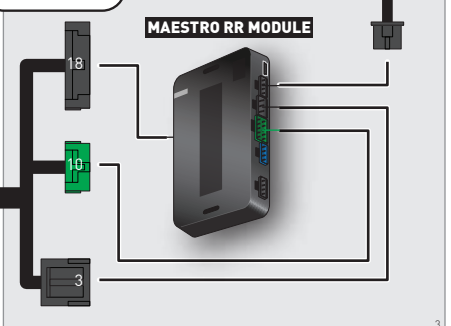
WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE
CHART
FOR RADIO WIRE
COLORS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

MAIN HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA CABLE

BACKUP CAM   *
CONNECT IF EQUIPPED *

RR OUT
LR OUT
RF OUT
LF OUT

STEP 2

8   8

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

NC   8

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

WHITE - REMOTE (12V)

6   7   8   9   10   11   12   13   14   15   16
17   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32

AMP TURN ON
POWER ANT

TO ANTENNA
ADAPTER IF REQUIRED

24

8   8

MIC   NC

HRR-MA2 T-HARNESS

STEP 6

MAESTRO RR MODULE

18

10

3

3

NOT REQUIRED

4   STEERING WHEEL
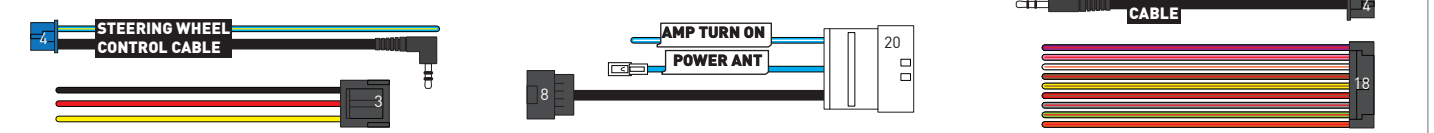CONTROL CABLE

3

AMP TURN ON
POWER ANT

8

20

AUDIO
CABLE   4

18

RADIO WIRE REFERENCE CHART

MA2 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
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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

Head unit adapter wiring (optional accessory, sold separately)

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Reverse Light*	(+)	Purple/White	Purple/White
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PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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  If using head unit adapter (sold separately), connect HRR-MA2 harness to adapter and skip to step 2.

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- Cut and remove the black 20 pin connector from the HRR-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.
- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.
- Connect the adapter's 8-pin black connector to the extension harness.
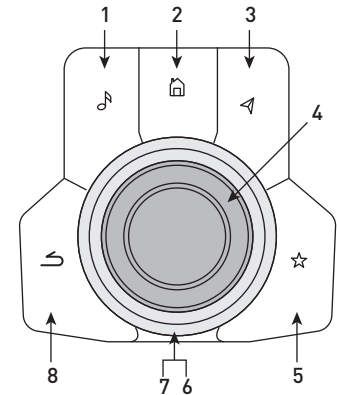- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).

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.
- **Reconnect the negative battery terminal then test your installation.**
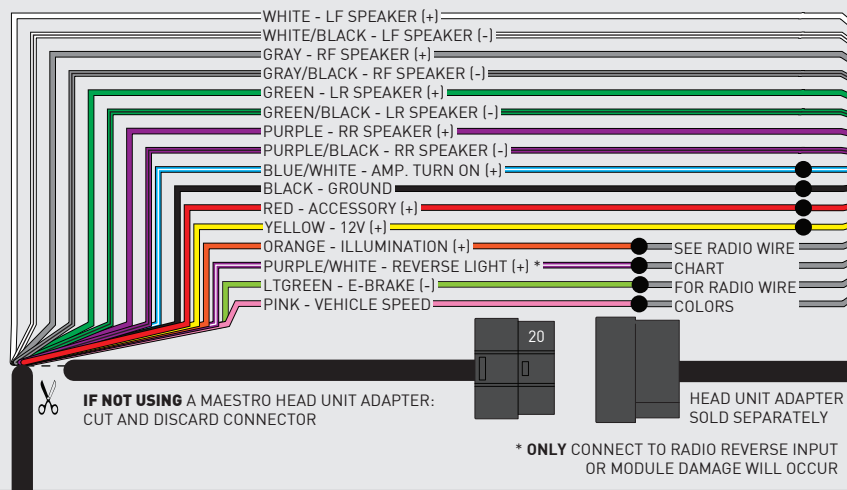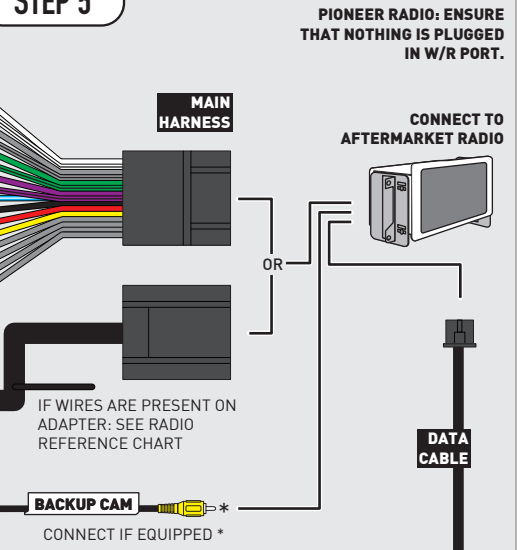
Rotary Commander Info

1. Music Button : SOUND MENU
2. Home Button : POWER ON/OFF / HOME SCREEN
3. Nav Button : NAVIGATION SCREEN
4. Volume Knob : VOL UP/DOWN, push = MUTE
5. Star Button : CAR INFO SCREEN
6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV
7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE
8. Back Button: GAUGES SCREEN
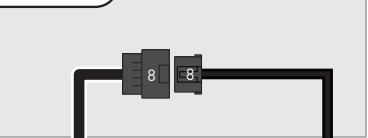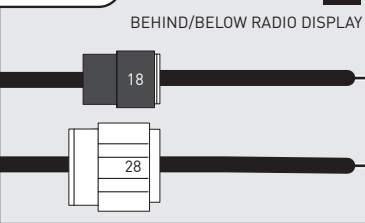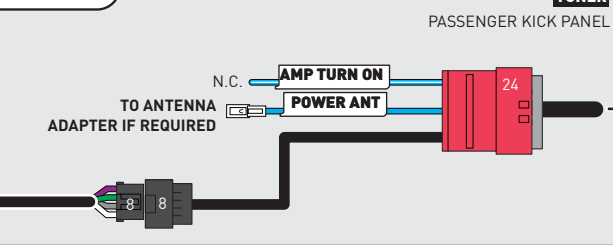
WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE
CHART
FOR RADIO WIRE
COLORS

20

✂ **IF NOT USING** A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

STEP 5

MAIN HARNESS

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA CABLE

BACKUP CAM ═ ▭ *
CONNECT IF EQUIPPED *

STEP 2

8 8

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. **AMP TURN ON**
TO ANTENNA **POWER ANT**
ADAPTER IF REQUIRED

24

8 8

STEP 6

MAESTRO RR MODULE

18

10

3

MIC ▭ NC

HRR-MA2 T-HARNESS

NOT REQUIRED

8

3

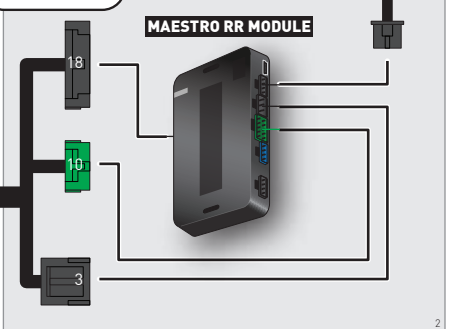4 **STEERING WHEEL CONTROL CABLE**
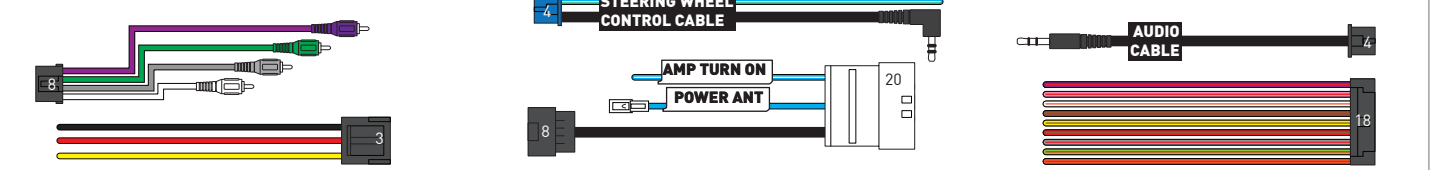
AMP TURN ON
POWER ANT

20

8

AUDIO CABLE 4

18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1   LED 2

LED 1

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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.

![maestro Rr logo]

INSTALL GUIDE

2016-2017
MAZDA 6
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

K40 ELECTRONICS
ESCORT.

Radar Installation Guides

Configuring the RR2's Programmable Outputs

Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos.

VIDEO HELP

Last flash information, steering control configuration, vehicle information.

VERIFY FLASH

Software to program module.

WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
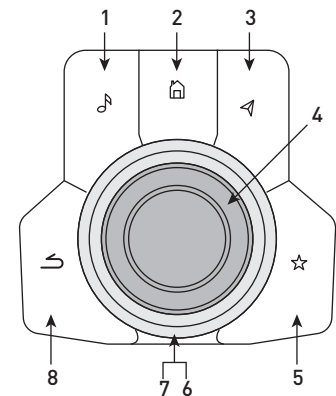
STEP 5

- 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.

- **Reconnect the negative battery terminal then test your installation.**
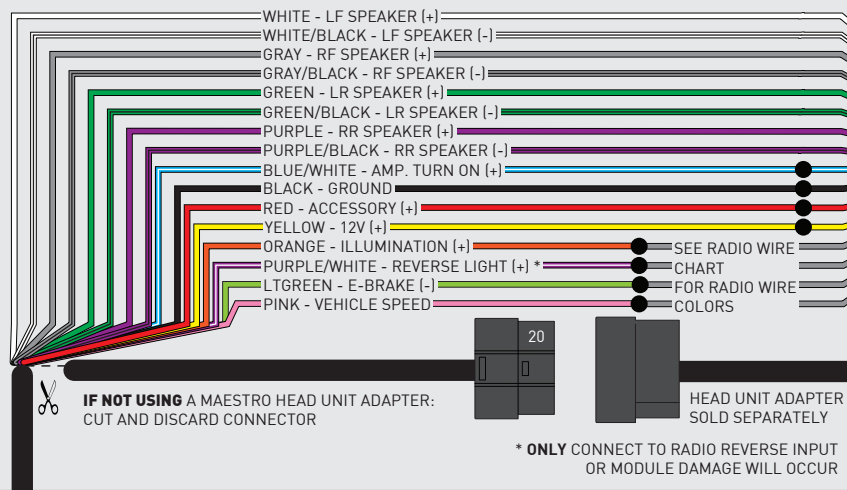
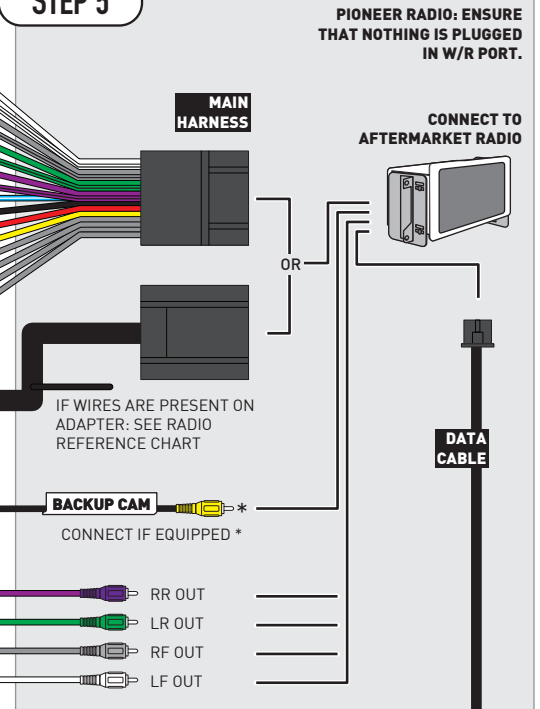Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

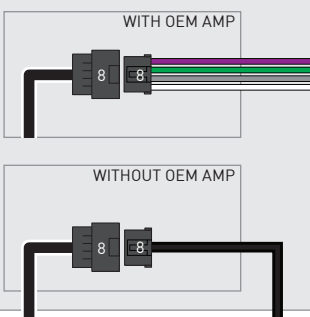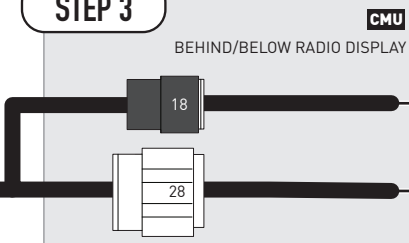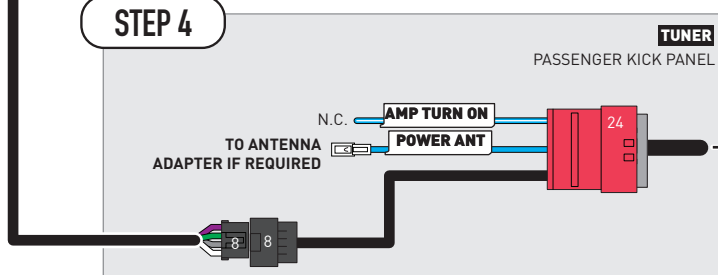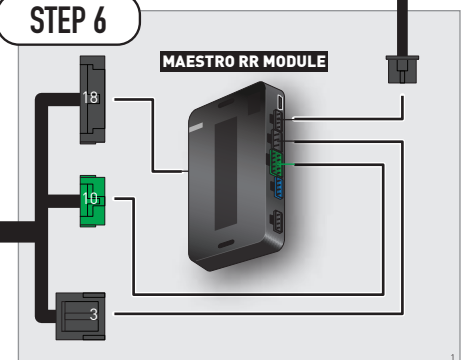8. Back Button: GAUGES SCREEN

WIRING DIAGRAM

STEP 1

STEP 5

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

* ONLY CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

DATA CABLE

BACKUP CAM *

CONNECT IF EQUIPPED *

STEP 2

WITH OEM AMP

8 8

RR OUT
LR OUT
RF OUT
LF OUT

WITHOUT OEM AMP

8 8

STEP 3

CMU

BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER

PASSENGER KICK PANEL

N.C. AMP TURN ON

TO ANTENNA ADAPTER IF REQUIRED   POWER ANT

24

STEP 6

MAESTRO RR MODULE

18

10

3

8 8

MIC   NC

HRR-MA2 T-HARNESS

1

NOT REQUIRED

4 STEERING WHEEL CONTROL CABLE

3

AMP TURN ON

POWER ANT

8

20

AUDIO CABLE
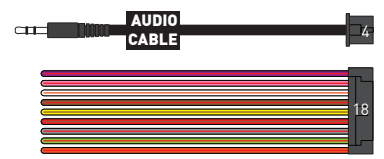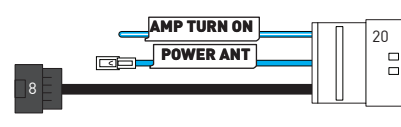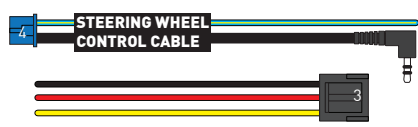
4

18

RADIO WIRE REFERENCE CHART

MA2 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

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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

2018-2020
MAZDA 6
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

K40 ELECTRONICS
ESCORT

Radar Installation Guides

Configuring the RR2's Programmable Outputs — Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos. — VIDEO HELP

Last flash information, steering control configuration, vehicle information. — VERIFY FLASH

Software to program module. — WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 20-pin adapter (white connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
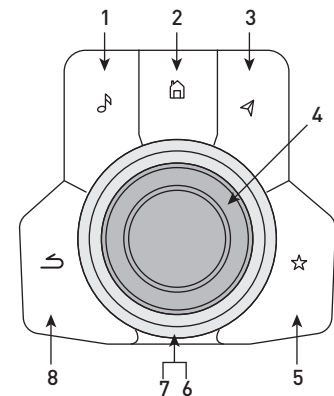
STEP 5

- 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.

- **Reconnect the negative battery terminal then test your installation.**
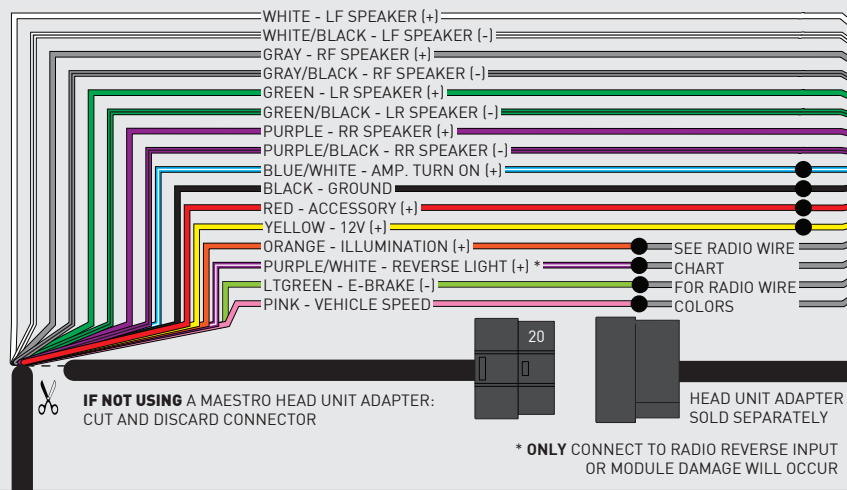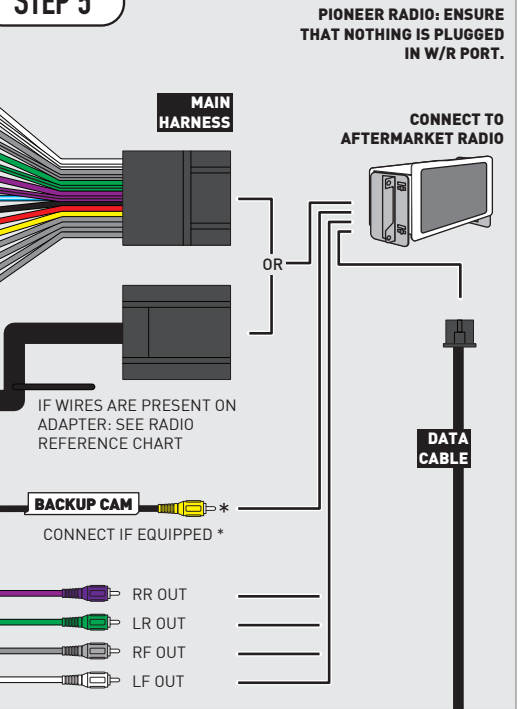
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

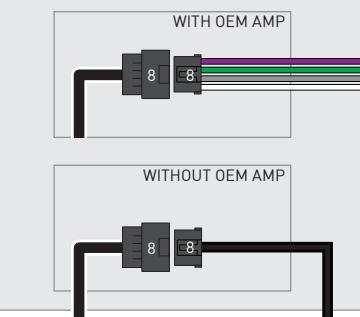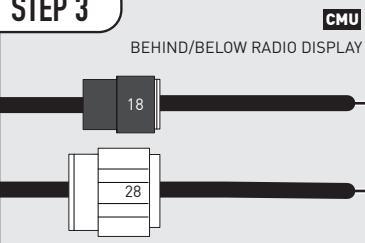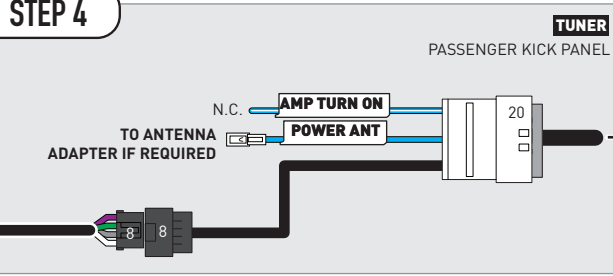8. Back Button: GAUGES SCREEN

WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

DATA CABLE

BACKUP CAM *
CONNECT IF EQUIPPED *

RR OUT
LR OUT
RF OUT
LF OUT

STEP 2

WITH OEM AMP

8 8

WITHOUT OEM AMP

8 8

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. AMP TURN ON
POWER ANT

TO ANTENNA ADAPTER IF REQUIRED

20

8 8

STEP 6

MAESTRO RR MODULE

18

10

3

MIC NC

HRR-MA2 T-HARNESS

4

NOT REQUIRED

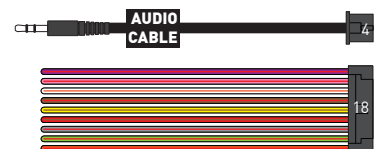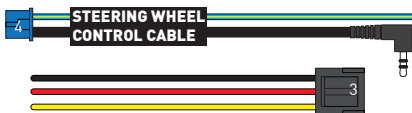STEERING WHEEL CONTROL CABLE

4

3

AMP TURN ON
POWER ANT

8

24

AUDIO CABLE

4

18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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 <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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

2016-2018
MAZDA CX-3
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

HEAD UNIT ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

Radar Installation Guides

Configuring the RR2's Programmable Outputs — Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos. — VIDEO HELP

Last flash information, steering control configuration, vehicle information. — VERIFY FLASH

Software to program module. — WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

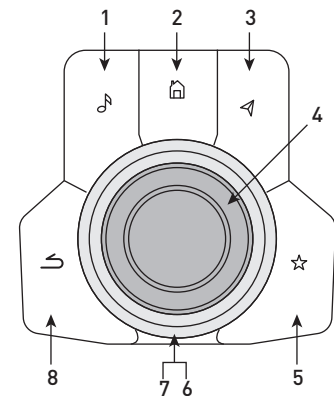- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).

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.

- **Reconnect the negative battery terminal then test your installation.**
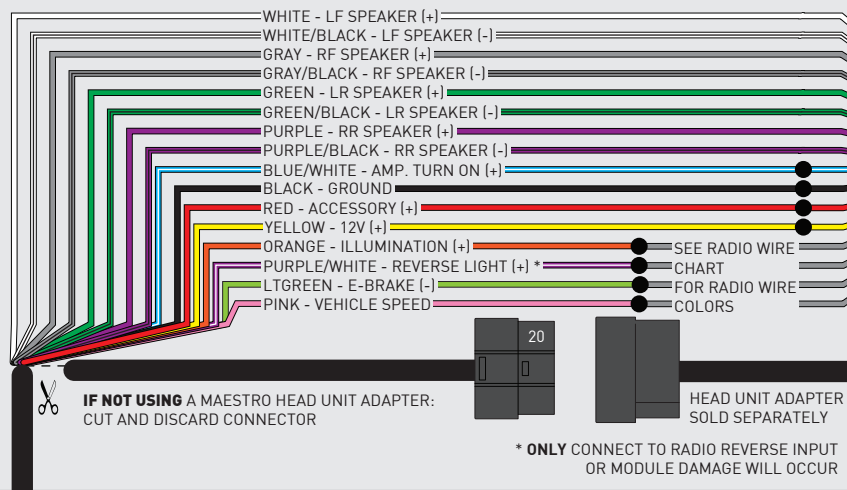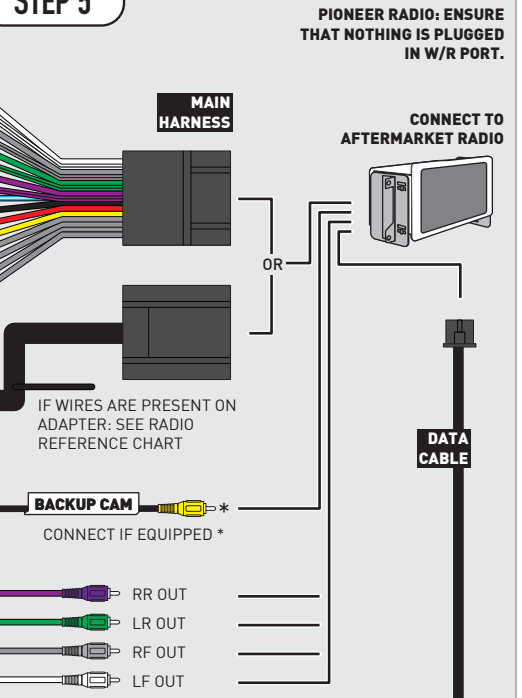
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

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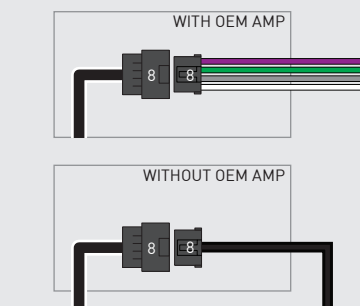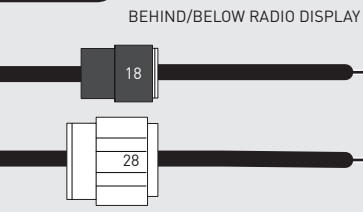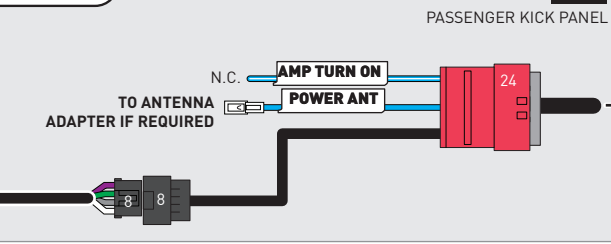8. Back Button: GAUGES SCREEN

WIRING DIAGRAM

RADIO WIRE REFERENCE CHART
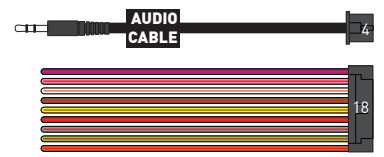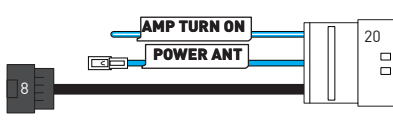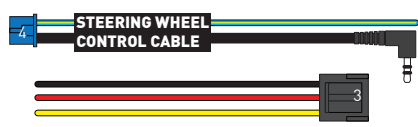
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Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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 <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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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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

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Email: maestro.support@idatalink.com

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

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

OR

+

HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

WELCOME

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ADDITIONAL INFORMATION AND ACCESSORIES

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Installation, product information, vehicle specific videos. | VIDEO HELP

Last flash information, steering control configuration, vehicle information. | VERIFY FLASH

Software to program module. | WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).
- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

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- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 20-pin adapter (white connector) or the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.
- Connect the adapter's 8-pin black connector to the extension harness.
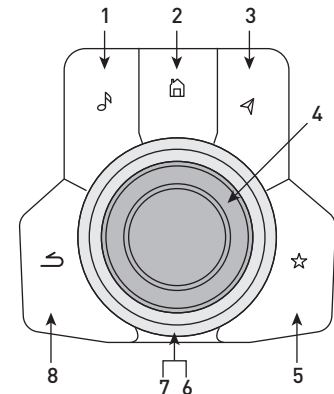- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).

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.
- **Reconnect the negative battery terminal then test your installation.**
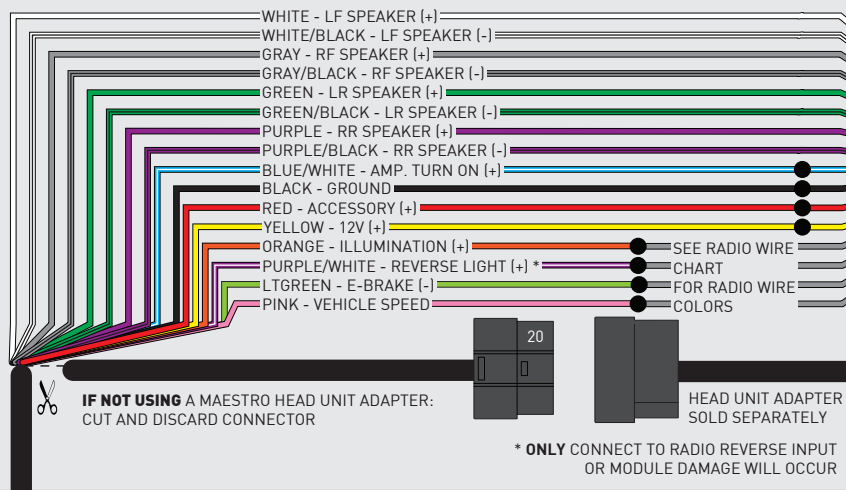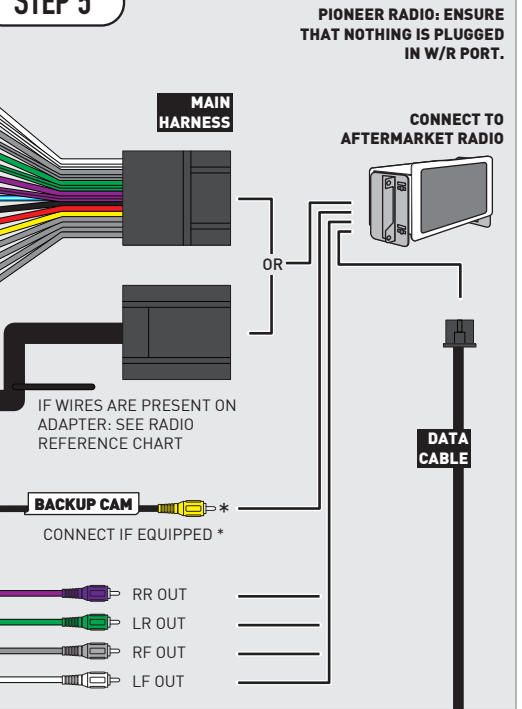
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE
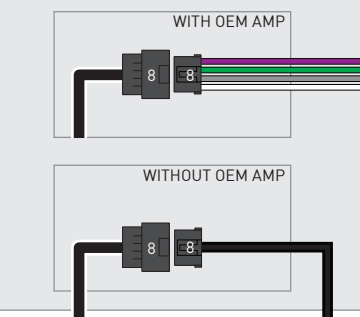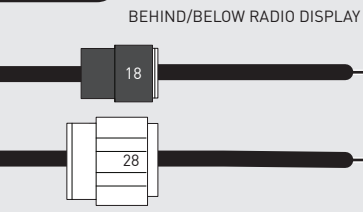
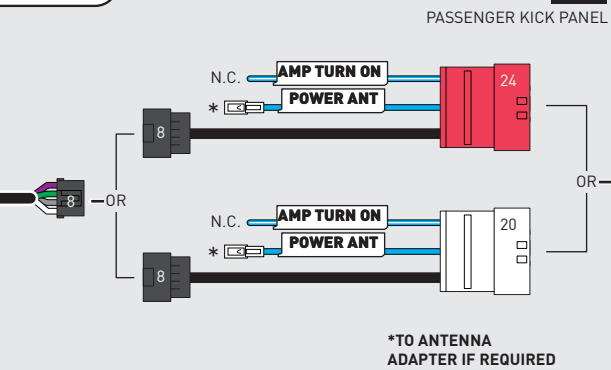8. Back Button: GAUGES SCREEN

7

WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

DATA CABLE

BACKUP CAM
CONNECT IF EQUIPPED *

RR OUT
LR OUT
RF OUT
LF OUT

STEP 2

WITH OEM AMP

8 8

WITHOUT OEM AMP

8 8

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. AMP TURN ON
* POWER ANT

24

N.C. AMP TURN ON
* POWER ANT

20

8

8 OR

8

OR

MIC   NC

*TO ANTENNA ADAPTER IF REQUIRED

STEP 6

MAESTRO RR MODULE

18

10

3

7

HRR-MA2 T-HARNESS

NOT REQUIRED

3

STEERING WHEEL CONTROL CABLE
4

AUDIO CABLE
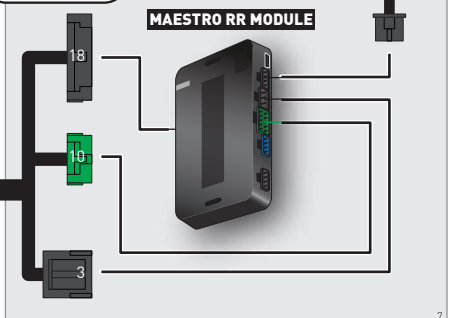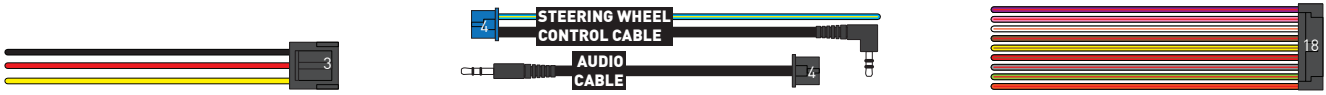4

18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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 <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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.

maestro *Rr*

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

Radar Installation Guides

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

NEED HELP?

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✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).
- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:
- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:
- Plug in the extension harness to 8-pin black connector of RCA cable.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 20-pin adapter (white connector) to the factory radio tuner in the passenger kick panel.
- Connect the adapter's 8-pin black connector to the extension harness.
- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
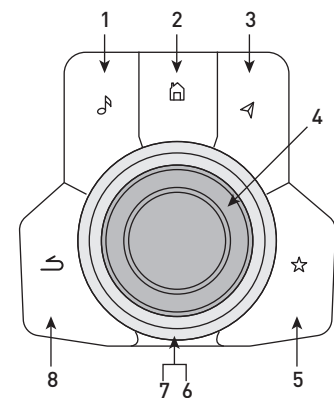
STEP 5

- 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.
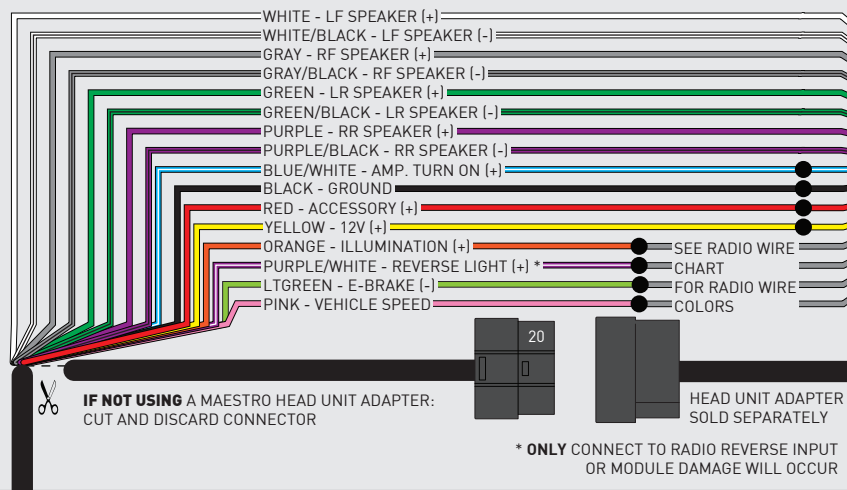- **Reconnect the negative battery terminal then test your installation.**
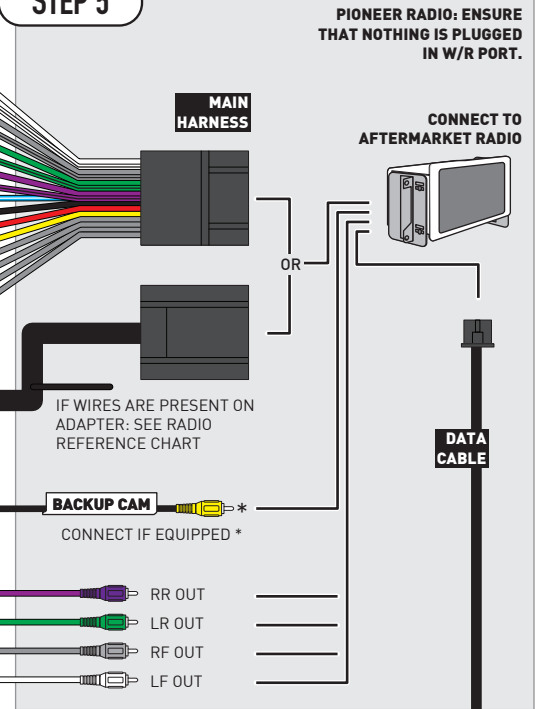
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE
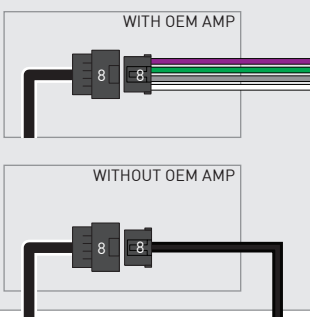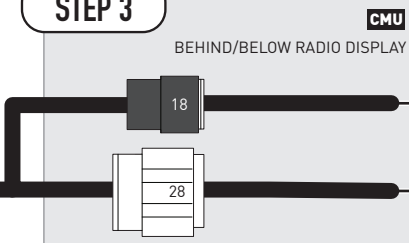
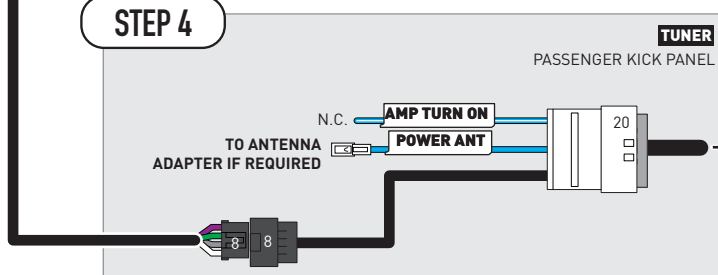8. Back Button: GAUGES SCREEN

4

WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

ONLY CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

DATA CABLE

BACKUP CAM *
CONNECT IF EQUIPPED *

RR OUT
LR OUT
RF OUT
LF OUT

STEP 2

WITH OEM AMP

8 8

WITHOUT OEM AMP

8 8

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. AMP TURN ON
TO ANTENNA ADAPTER IF REQUIRED POWER ANT

20

8 8

MIC NC

HRR-MA2 T-HARNESS

STEP 6

MAESTRO RR MODULE

18

10

3

4

NOT REQUIRED

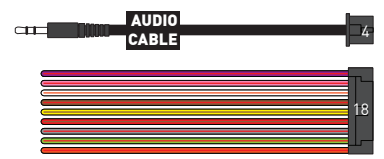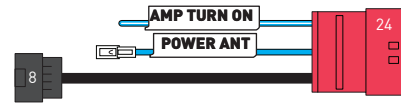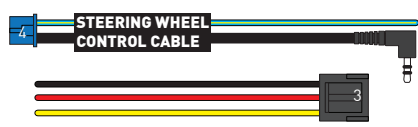STEERING WHEEL CONTROL CABLE
4

3

AMP TURN ON
POWER ANT
8
24

AUDIO CABLE
4

18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
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INSTALL GUIDE

2021
MAZDA CX-3
TOUCHSCREEN WITH AMPLIFIER

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

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iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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ADDITIONAL INFORMATION AND ACCESSORIES

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Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos.

VIDEO HELP

Last flash information, steering control configuration, vehicle information.

VERIFY FLASH

Software to program module.

WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 20-pin adapter (white connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

- Connect the adapter's AMP TURN ON blue/white wire to tuner's white wire at pin 6 of 32-pin white connector.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
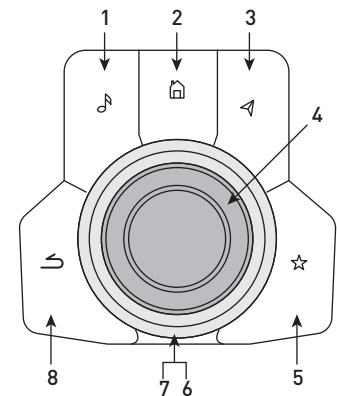
STEP 5

- 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.

- **Reconnect the negative battery terminal then test your installation.**
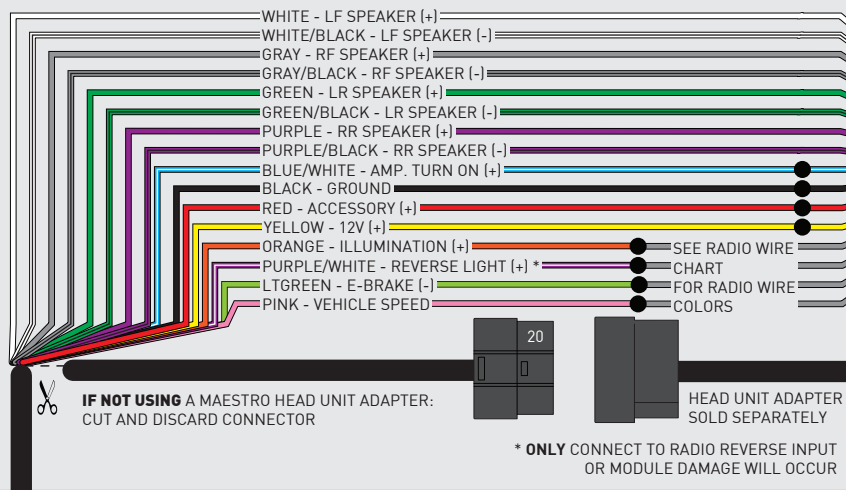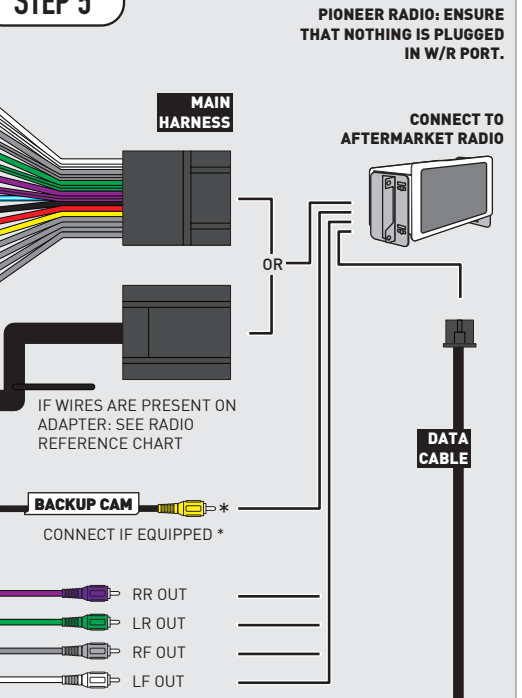
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

8. Back Button: GAUGES SCREEN
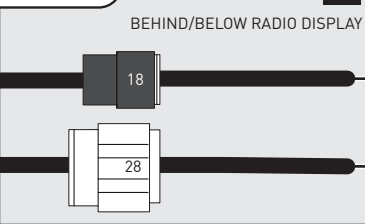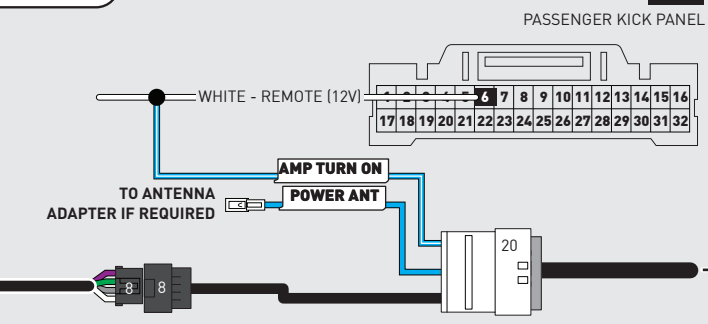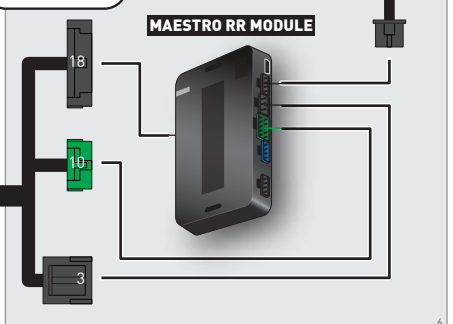
WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE
CHART
FOR RADIO WIRE
COLORS

STEP 5

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

MAIN HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER
SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA
CABLE

BACKUP CAM   *

CONNECT IF EQUIPPED *

STEP 2

8 8

RR OUT
LR OUT
RF OUT
LF OUT

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

NC   8

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

WHITE - REMOTE (12V)

6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

TO ANTENNA
ADAPTER IF REQUIRED

AMP TURN ON
POWER ANT

20

STEP 6

MAESTRO RR MODULE

18

10

3

8 8

MIC   NC

HRR-MA2 T-HARNESS

6

NOT REQUIRED

4 STEERING WHEEL
CONTROL CABLE

3

AMP TURN ON
POWER ANT

8   24

AUDIO
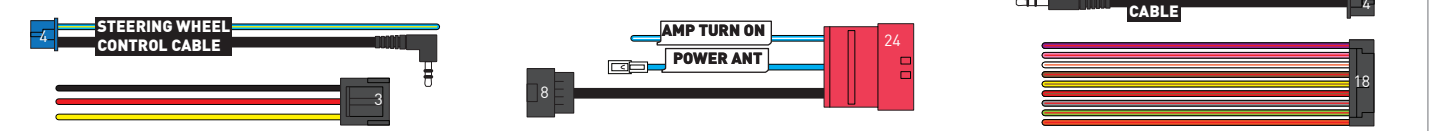CABLE   4

18

RADIO WIRE REFERENCE CHART

MA2 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
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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

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

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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 2

LED 1

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TOUCHSCREEN WITHOUT AMPLIFIER

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

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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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

Radar Installation Guides

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

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).
- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.
- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 20-pin adapter (white connector) to the factory radio tuner in the passenger kick panel.
- Connect the adapter's 8-pin black connector to the extension harness.
- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
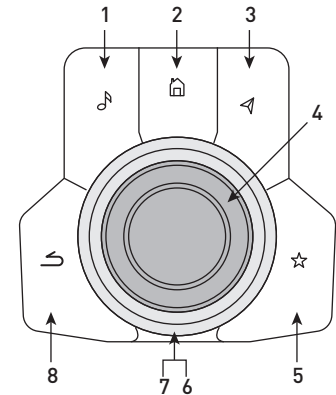
STEP 5

- 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.
- **Reconnect the negative battery terminal then test your installation.**
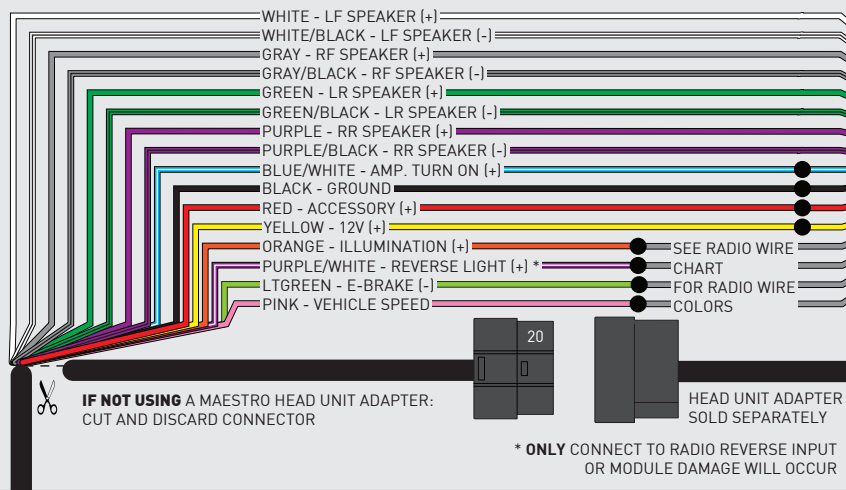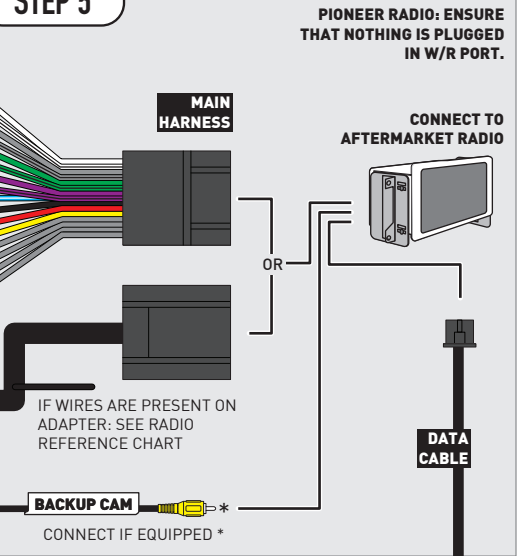
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE
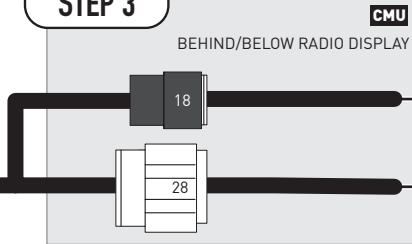
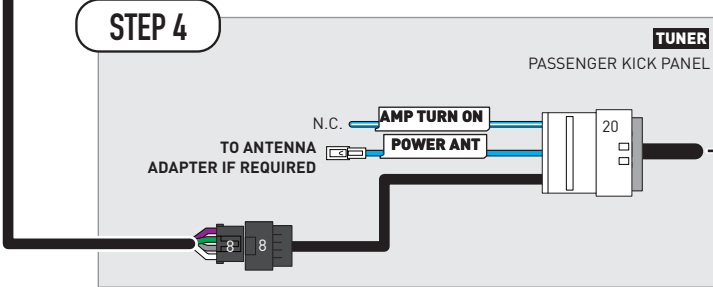8. Back Button: GAUGES SCREEN

5

WIRING DIAGRAM

STEP 1

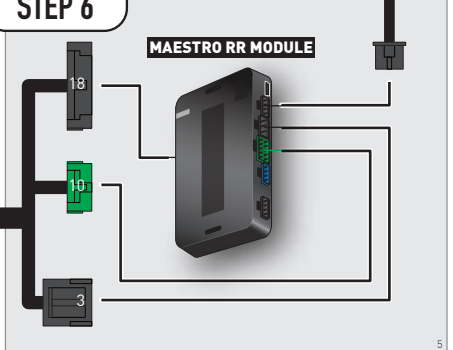WHITE - LF SPEAKER (+)
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BLACK - GROUND
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YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE
CHART
FOR RADIO WIRE
COLORS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

MAIN
HARNESS

CONNECT TO
AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA
CABLE

BACKUP CAM *

CONNECT IF EQUIPPED *

STEP 2

8 8

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. AMP TURN ON

TO ANTENNA
ADAPTER IF REQUIRED   POWER ANT

20

8 8

STEP 6

MAESTRO RR MODULE

18

10

3

MIC   NC

HRR-MA2 T-HARNESS

5

NOT REQUIRED

8

3

4 STEERING WHEEL
CONTROL CABLE

AMP TURN ON

POWER ANT

8

24

AUDIO
CABLE   4
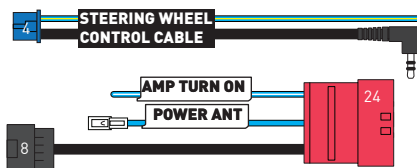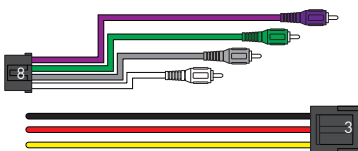
18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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.

![iDatalink maestro Rr logo]

INSTALL GUIDE

2016-2018
MAZDA CX-5
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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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Software to program module. — WEBLINK

NEED HELP?

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INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
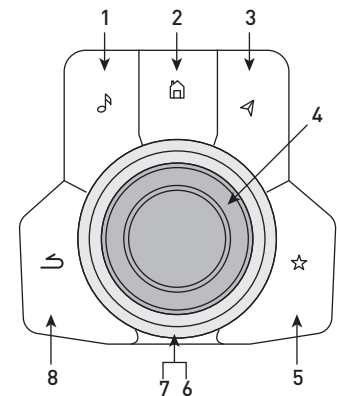
STEP 5

- 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.

- **Reconnect the negative battery terminal then test your installation.**
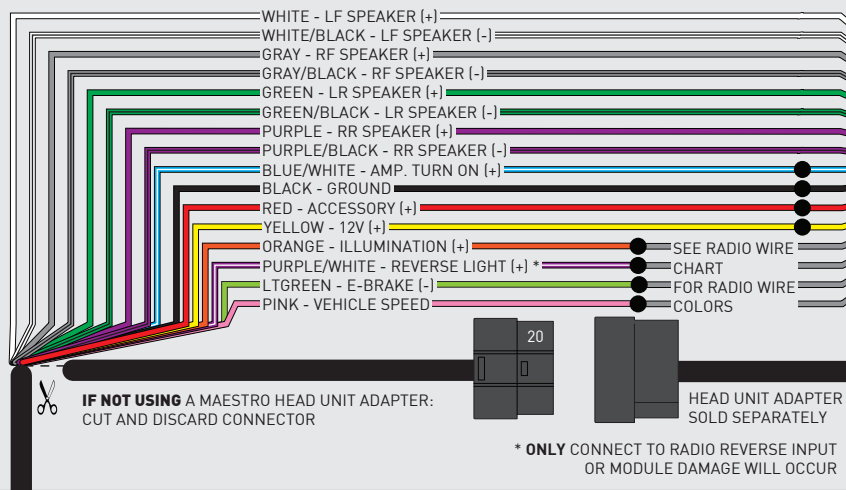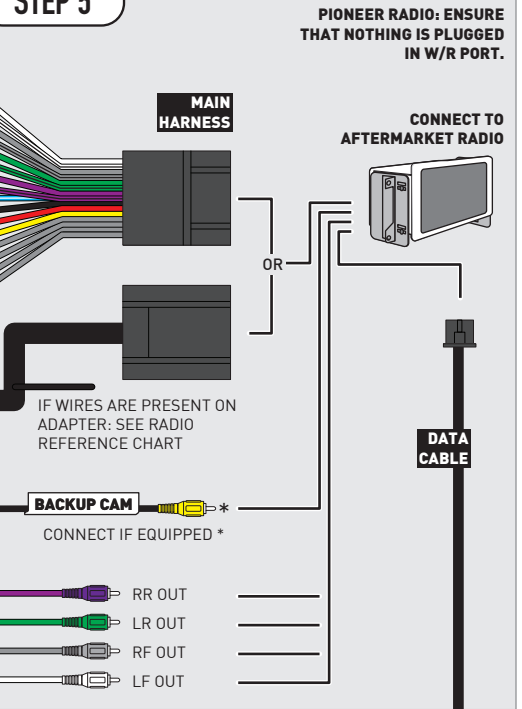
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2. Home Button : POWER ON/OFF / HOME SCREEN

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4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE
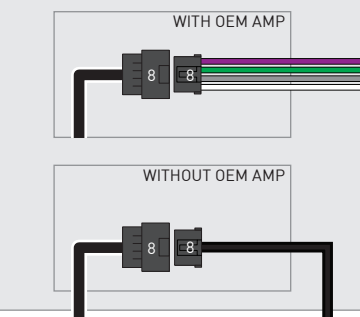
8. Back Button: GAUGES SCREEN
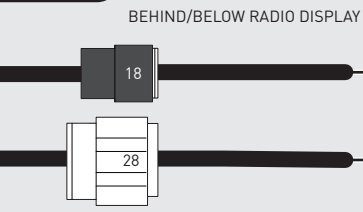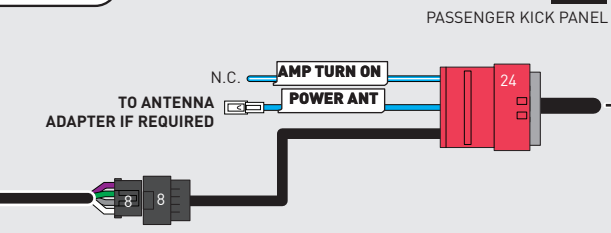
WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

20

✂ **IF NOT USING** A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

DATA CABLE

BACKUP CAM *

CONNECT IF EQUIPPED *

RR OUT
LR OUT
RF OUT
LF OUT

STEP 2

WITH OEM AMP

8 **8**

WITHOUT OEM AMP

8 **8**

STEP 3

CMU

BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER

PASSENGER KICK PANEL

N.C. AMP TURN ON
TO ANTENNA POWER ANT
ADAPTER IF REQUIRED

24

8 **8**

MIC NC

HRR-MA2 T-HARNESS

STEP 6

MAESTRO RR MODULE

18

10

3

1

NOT REQUIRED

STEERING WHEEL CONTROL CABLE
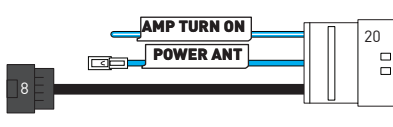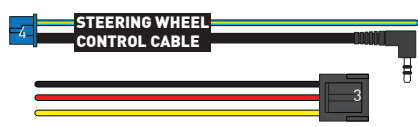
3

AMP TURN ON
POWER ANT

20

8

AUDIO CABLE

4

18

RADIO WIRE REFERENCE CHART

MA2 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
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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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INSTALL GUIDE

2019-2021
MAZDA CX-5
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

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iDatalink Maestro HRR-MA2 Installation Harness

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Installation, product information, vehicle specific videos.

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Last flash information, steering control configuration, vehicle information.

VERIFY FLASH

Software to program module.

WEBLINK

NEED HELP?

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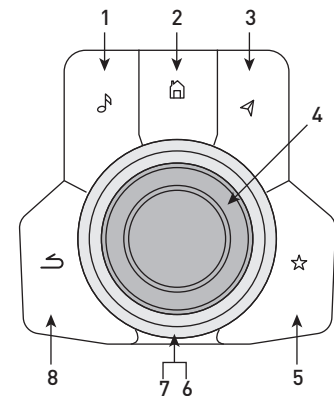
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- Plug the antenna adapter (if required).

- Plug the Data cable to the data port of the aftermarket radio.

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STEP 6

- Connect all the harnesses to the Maestro RR module.

- **Reconnect the negative battery terminal then test your installation.**
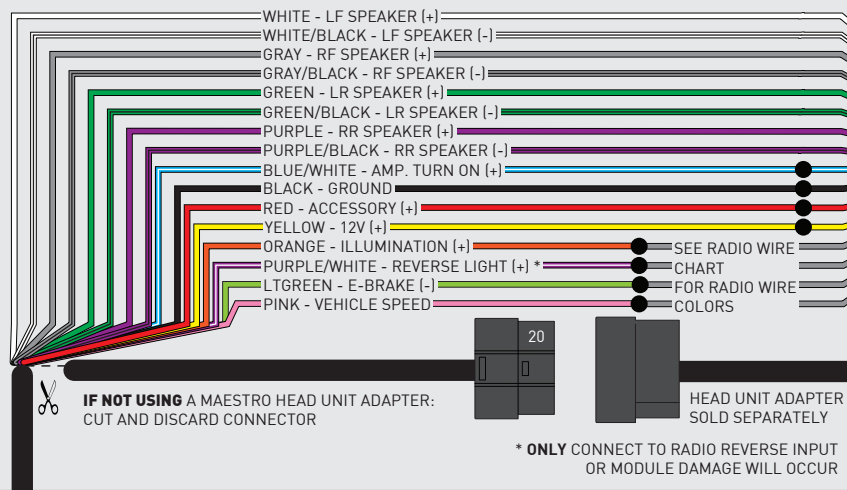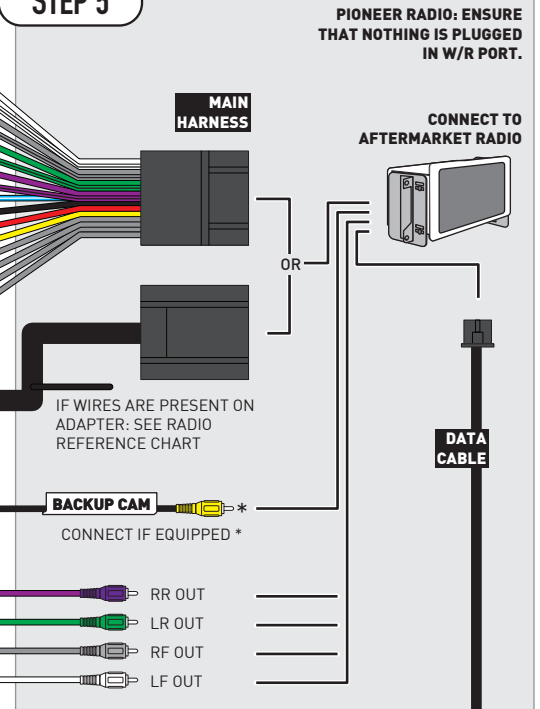
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

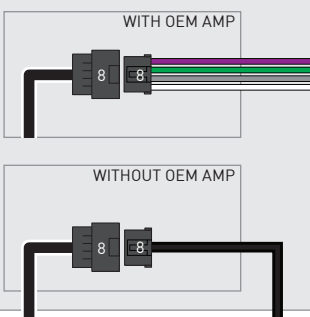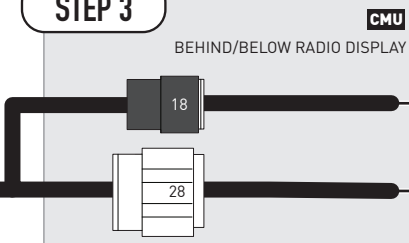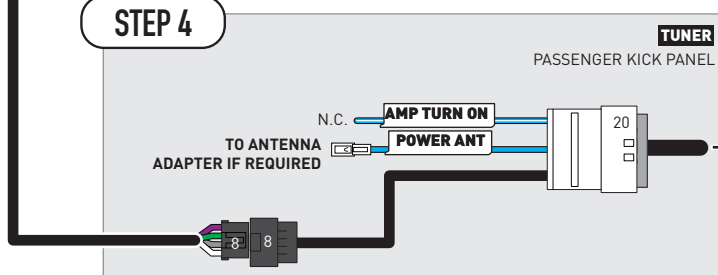8. Back Button: GAUGES SCREEN

WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

STEP 5

**PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.**

**CONNECT TO
AFTERMARKET RADIO**

OR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

DATA CABLE

BACKUP CAM *
CONNECT IF EQUIPPED *

STEP 2

WITH OEM AMP

8 8

RR OUT
LR OUT
RF OUT
LF OUT

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

WITHOUT OEM AMP

8 8

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. AMP TURN ON
TO ANTENNA   POWER ANT
ADAPTER IF REQUIRED

20

STEP 6

MAESTRO RR MODULE

18

10

8 8

3

MIC NC

HRR-MA2 T-HARNESS

NOT REQUIRED

STEERING WHEEL
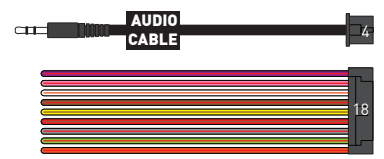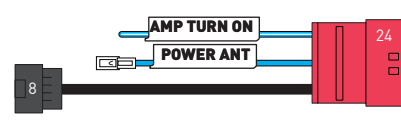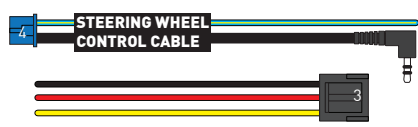CONTROL CABLE
4
3

AMP TURN ON
POWER ANT
8
24

AUDIO CABLE
4
18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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 <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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-9
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

K40 ELECTRONICS
ESCORT.

Radar Installation Guides

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

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).
- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 20-pin adapter (white connector) or the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.
- Connect the adapter's 8-pin black connector to the extension harness.
- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
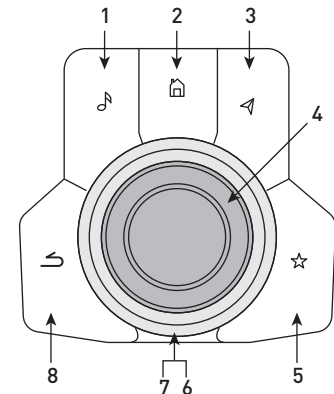
STEP 5

- 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.
- **Reconnect the negative battery terminal then test your installation.**
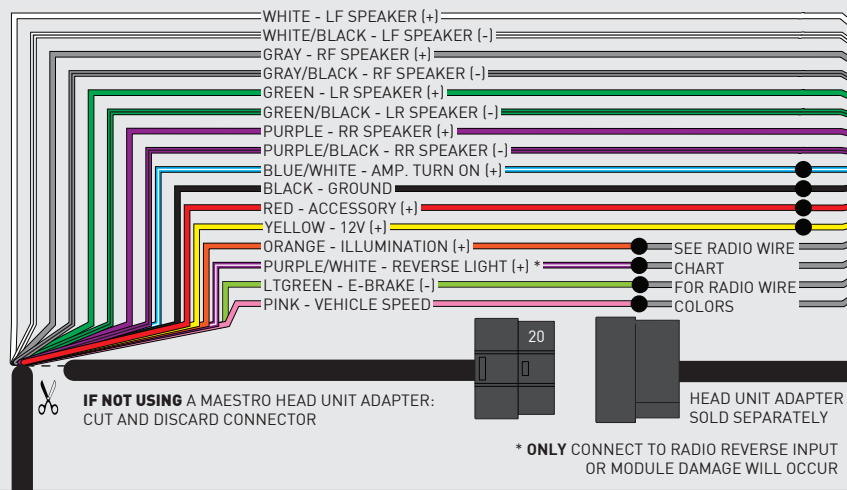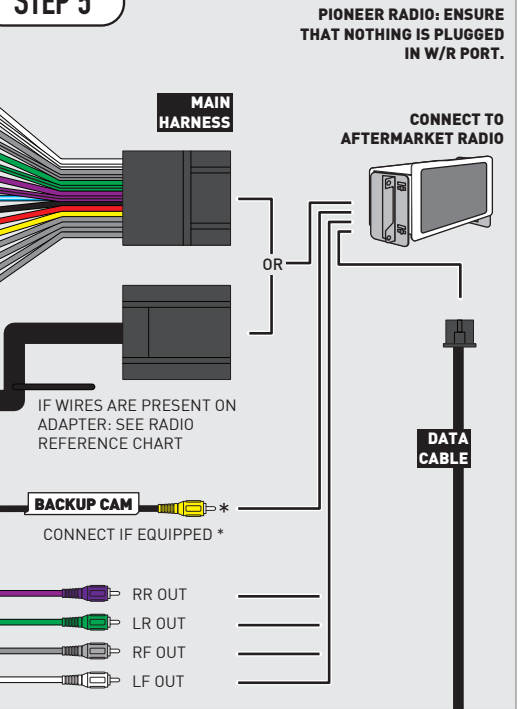
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

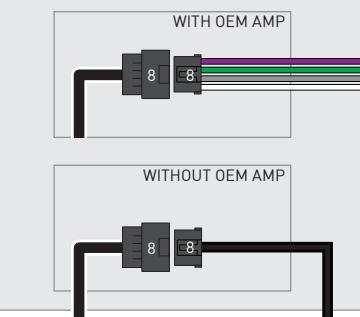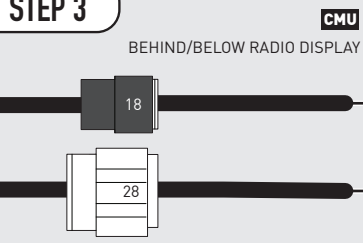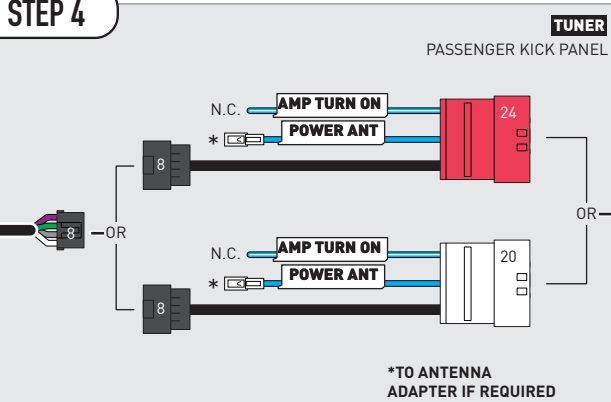8. Back Button: GAUGES SCREEN

WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE
CHART
FOR RADIO WIRE
COLORS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

MAIN HARNESS

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

STEP 5

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

CONNECT TO
AFTERMARKET RADIO

OR

DATA CABLE

BACKUP CAM ⟶ *
CONNECT IF EQUIPPED *

STEP 2

WITH OEM AMP

8 8

WITHOUT OEM AMP

8 8

RR OUT
LR OUT
RF OUT
LF OUT

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

18

28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C. AMP TURN ON
* POWER ANT

24

8

— OR —

8

N.C. AMP TURN ON
* POWER ANT

20

8

OR

*TO ANTENNA
ADAPTER IF REQUIRED

MIC NC

STEP 6

MAESTRO RR MODULE

18

10

3

7

HRR-MA2 T-HARNESS

NOT REQUIRED

3

STEERING WHEEL
CONTROL CABLE

AUDIO
CABLE

4

4

18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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 <u>NOT</u> use DEMO MODE.
●		2 RED flashes	Problem detected. Consult troubleshooting table.
●		1 GREEN flash	After radio boots up : Normal operation.
	●	3 GREEN flashes	Bluetooth is activated. Turns off after one minute: Normal operation.
●	●	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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

2021
MAZDA CX-9
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

Radar Installation Guides

Configuring the RR2's Programmable Outputs

Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos.

VIDEO HELP

Last flash information, steering control configuration, vehicle information.

VERIFY FLASH

Software to program module.

WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).
- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.
- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 20-pin adapter (white connector) to the factory radio tuner in the passenger kick panel.
- Connect the adapter's 8-pin black connector to the extension harness.
- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).

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.
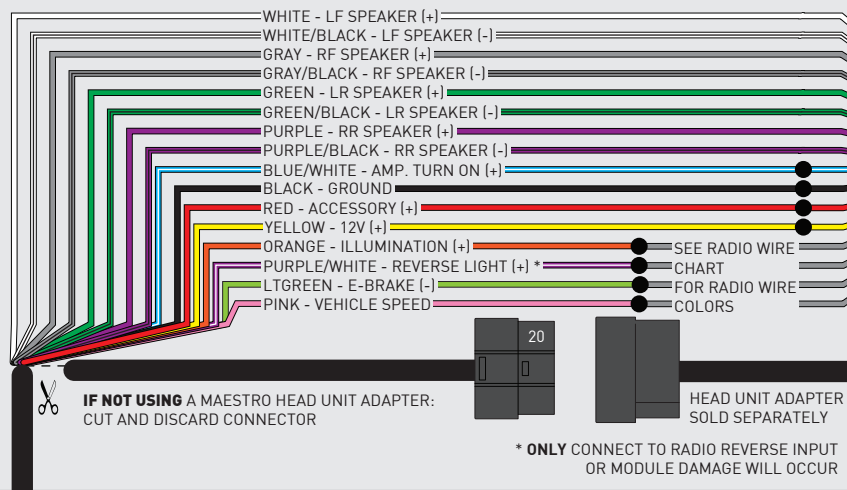- **Reconnect the negative battery terminal then test your installation.**
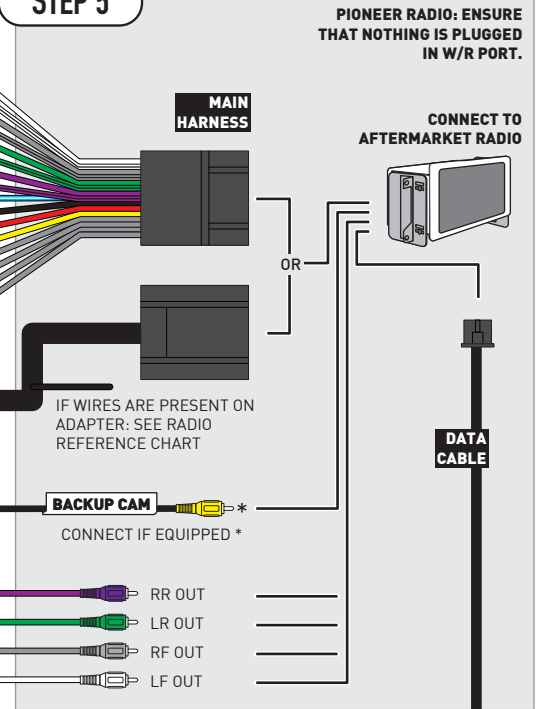
Rotary Commander Info

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3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE
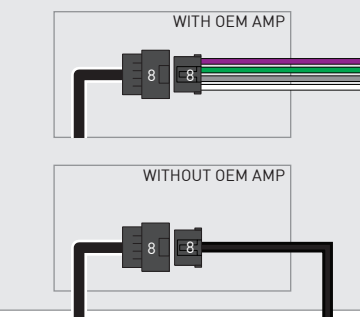
8. Back Button: GAUGES SCREEN

idatalink maestro**Rr**
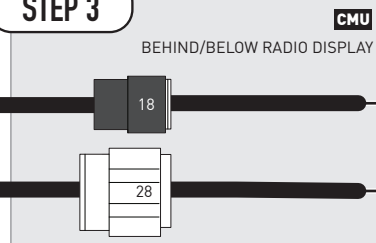
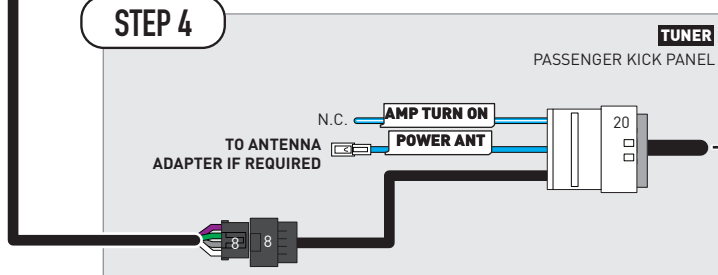# WIRING DIAGRAM

STEP 1

STEP 5

PIONEER RADIO: ENSURE
THAT NOTHING IS PLUGGED
IN W/R PORT.

CONNECT TO
AFTERMARKET RADIO

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE
CHART
FOR RADIO WIRE
COLORS

MAIN
HARNESS

20

IF NOT USING A MAESTRO HEAD UNIT ADAPTER:
CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER
SOLD SEPARATELY

* ONLY CONNECT TO RADIO REVERSE INPUT
OR MODULE DAMAGE WILL OCCUR

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

OR

DATA
CABLE

BACKUP CAM   *

CONNECT IF EQUIPPED *

STEP 2

WITH OEM AMP

8 8

RR OUT
LR OUT
RF OUT
LF OUT

STEP 3

CMU

BEHIND/BELOW RADIO DISPLAY

18

WITHOUT OEM AMP

8 8

28

STEP 4

TUNER

PASSENGER KICK PANEL

N.C. AMP TURN ON

TO ANTENNA
ADAPTER IF REQUIRED

POWER ANT

20

STEP 6

MAESTRO RR MODULE

18

8 8

10

MIC   NC

3

HRR-MA2 T-HARNESS

4

NOT REQUIRED

STEERING WHEEL
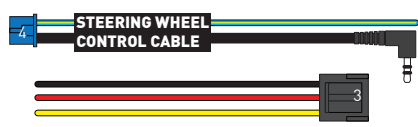CONTROL CABLE

4

3

AMP TURN ON

POWER ANT

8

24

AUDIO
CABLE

4

18

RADIO WIRE REFERENCE CHART

MA2 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

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.

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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.
CX-5 and Mazda3 No audio after installing new radio. Factory radio no longer has sound.	Check 7.5 amp "AUDIO 2" fuse located under the hood.
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 MX-5
TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

Radar Installation Guides

Configuring the RR2's Programmable Outputs

Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos.

VIDEO HELP

Last flash information, steering control configuration, vehicle information.

VERIFY FLASH

Software to program module.

WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

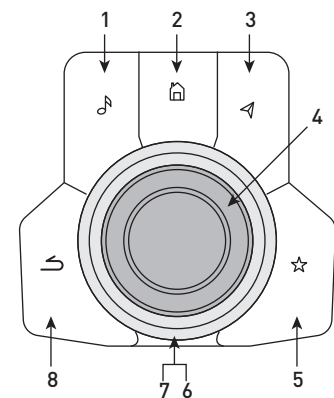- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).

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.

- **Reconnect the negative battery terminal then test your installation.**
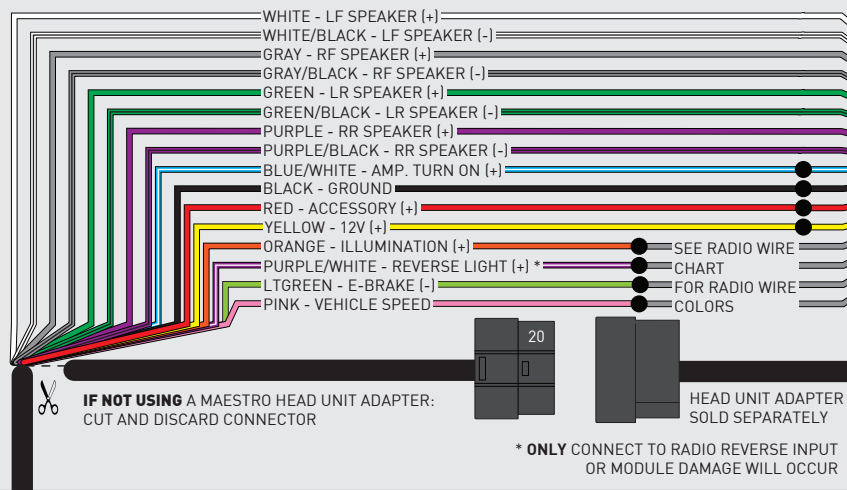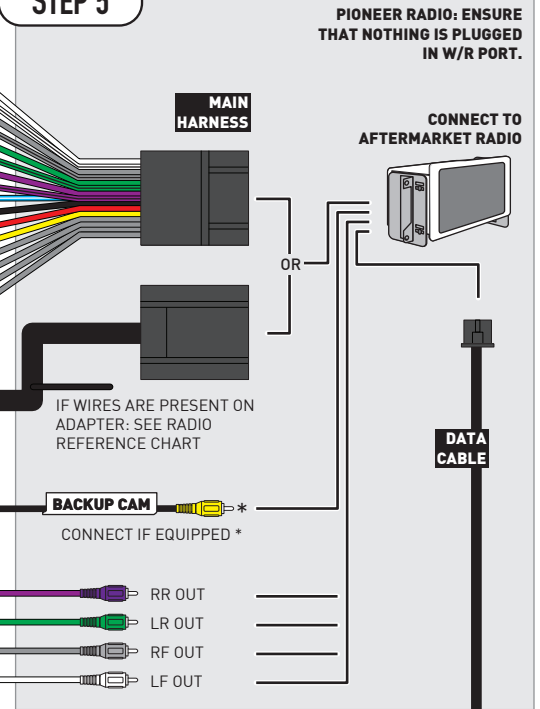
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

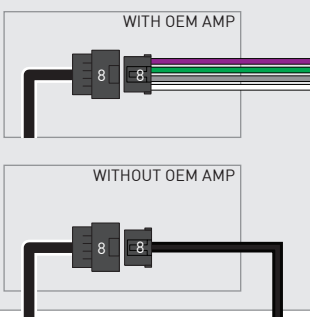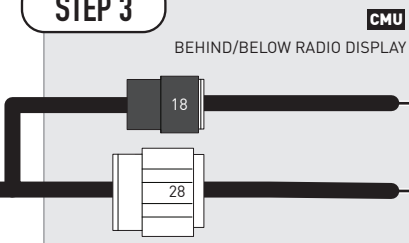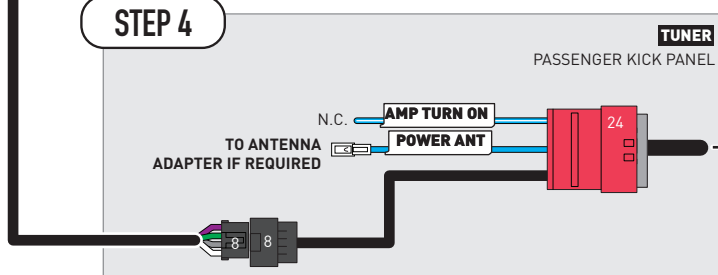8. Back Button: GAUGES SCREEN

WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

20

HEAD UNIT ADAPTER SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

DATA CABLE

BACKUP CAM *
CONNECT IF EQUIPPED *

RR OUT
LR OUT
RF OUT
LF OUT

STEP 2

WITH OEM AMP
8   8

WITHOUT OEM AMP
8   8

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY
18
28

STEP 4

TUNER
PASSENGER KICK PANEL

N.C.   AMP TURN ON
TO ANTENNA ADAPTER IF REQUIRED   POWER ANT

24

8   8

MIC   NC

HRR-MA2 T-HARNESS

STEP 6

MAESTRO RR MODULE
18
10
3

NOT REQUIRED

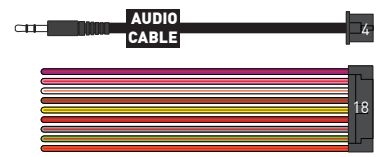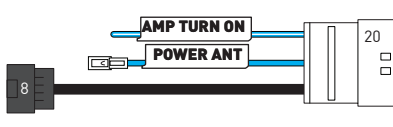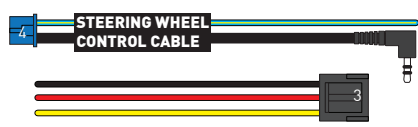4   STEERING WHEEL CONTROL CABLE
3

AMP TURN ON
POWER ANT
8   20

AUDIO CABLE   4
18

RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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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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.

![iDatalink maestro Rr logo]

INSTALL GUIDE

2019-2020
TOYOTA YARIS
7INCH TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

HEAD UNIT ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

K40 ELECTRONICS

ESCORT.

Radar Installation Guides

Configuring the RR2's Programmable Outputs

Maestro RR2 Programmable Outputs Guide

Installation, product information, vehicle specific videos.

VIDEO HELP

Last flash information, steering control configuration, vehicle information.

VERIFY FLASH

Software to program module.

WEBLINK

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

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STEP 4

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- Connect the adapter's 8-pin black connector to the extension harness.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
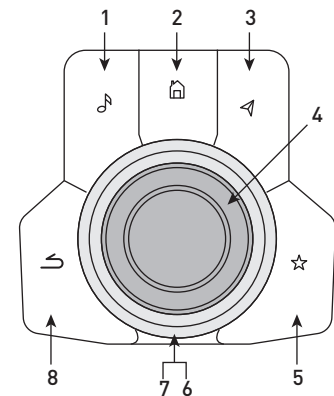
STEP 5

- 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.

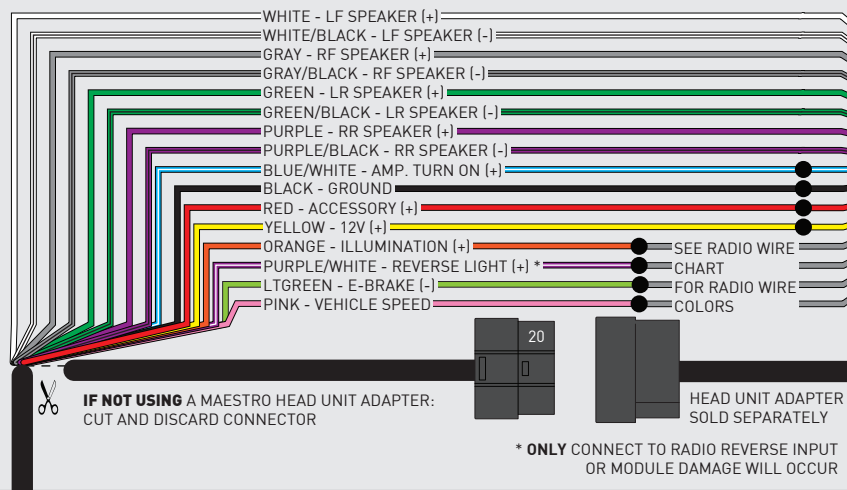- **Reconnect the negative battery terminal then test your installation.**
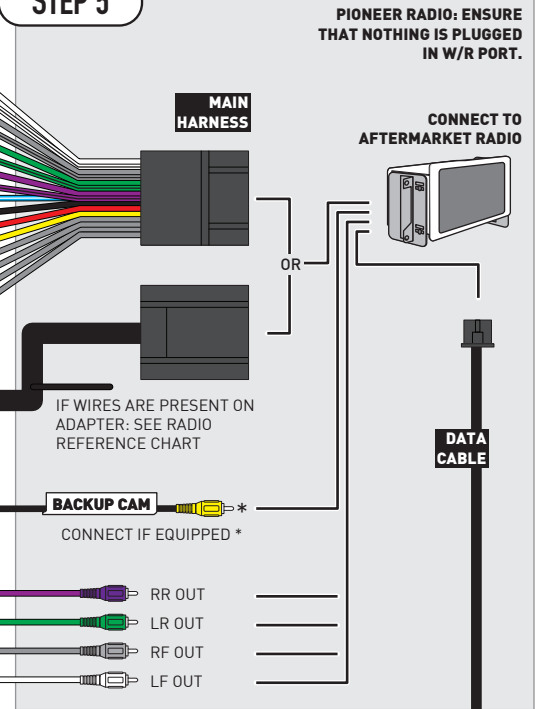
Rotary
Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

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6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

8. Back Button: GAUGES SCREEN

1

maestro**Rr**
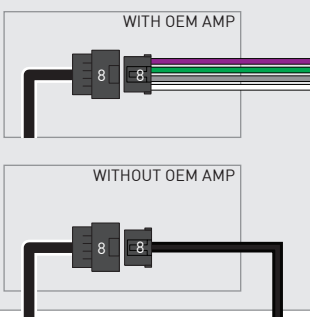
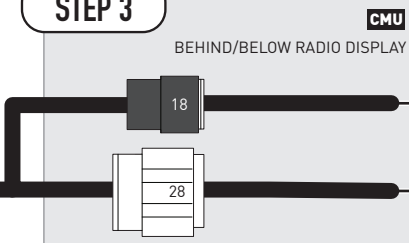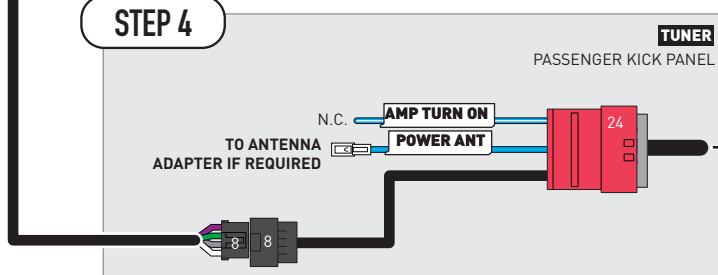# WIRING DIAGRAM

STEP 1

WHITE - LF SPEAKER (+)
WHITE/BLACK - LF SPEAKER (-)
GRAY - RF SPEAKER (+)
GRAY/BLACK - RF SPEAKER (-)
GREEN - LR SPEAKER (+)
GREEN/BLACK - LR SPEAKER (-)
PURPLE - RR SPEAKER (+)
PURPLE/BLACK - RR SPEAKER (-)
BLUE/WHITE - AMP. TURN ON (+)
BLACK - GROUND
RED - ACCESSORY (+)
YELLOW - 12V (+)
ORANGE - ILLUMINATION (+)
PURPLE/WHITE - REVERSE LIGHT (+) *
LTGREEN - E-BRAKE (-)
PINK - VEHICLE SPEED

SEE RADIO WIRE CHART FOR RADIO WIRE COLORS

IF NOT USING A MAESTRO HEAD UNIT ADAPTER: CUT AND DISCARD CONNECTOR

HEAD UNIT ADAPTER SOLD SEPARATELY

* **ONLY** CONNECT TO RADIO REVERSE INPUT OR MODULE DAMAGE WILL OCCUR

STEP 5

PIONEER RADIO: ENSURE THAT NOTHING IS PLUGGED IN W/R PORT.

MAIN HARNESS

CONNECT TO AFTERMARKET RADIO

OR

IF WIRES ARE PRESENT ON ADAPTER: SEE RADIO REFERENCE CHART

DATA CABLE

BACKUP CAM *
CONNECT IF EQUIPPED *

RR OUT
LR OUT
RF OUT
LF OUT

STEP 2

WITH OEM AMP

WITHOUT OEM AMP

STEP 3

CMU
BEHIND/BELOW RADIO DISPLAY

STEP 4

TUNER
PASSENGER KICK PANEL

N.C.   AMP TURN ON
TO ANTENNA ADAPTER IF REQUIRED   POWER ANT

MIC   NC

HRR-MA2 T-HARNESS

STEP 6

MAESTRO RR MODULE

NOT REQUIRED
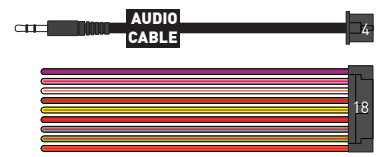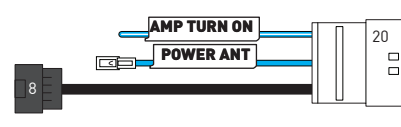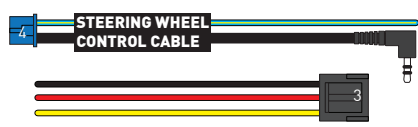
STEERING WHEEL CONTROL CABLE

AMP TURN ON
POWER ANT

AUDIO CABLE

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Head unit adapter wiring (optional accessory, sold separately)

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

MODULE DIAGNOSTICS

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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INSTALL GUIDE

2017-2018
TOYOTA YARIS IA
7INCH TOUCHSCREEN

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!

+

OR

HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-MA2 Installation Harness

PROGRAMMED FIRMWARE: MA1-RR-DS

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.

ADDITIONAL INFORMATION AND ACCESSORIES

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

Antenna adapter may be required

Radar Detectors

K40 ELECTRONICS
ESCORT.

Radar Installation Guides

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

NEED HELP?

📞 1 866 427-2999

✉ maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1 /1

STEP 1

- **Disconnect the negative battery terminal** (not doing so may blow the 7.5A audio fuse 2 under hood during the installation of the radio).

- Remove the factory radio

  If using head unit adapter (sold separately), connect HRR-MA2 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-MA2 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-MA2 T-harness and match the wire functions.

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

STEP 2

If the vehicle DOES NOT have a factory amplifier:

- Plug in the extension harness to HRR-MA2 main harness 8-pin black connector.

If the vehicle DOES have a factory amplifier:

- Plug in the extension harness to 8-pin black connector of RCA cable.

- Connect the RCAs to the radio outputs: white/left front, gray/right front, green/left rear, purple/right rear.

- Route the extension harness to the radio tuner in the passenger kick panel.

STEP 3

- Connect both the 18-pin and 28-pin connectors of HRR-MA2 T-harness to the factory radio harness (at CMU, behind/below display).

STEP 4

- Connect the 24-pin adapter (red connector) to the factory radio tuner in the passenger kick panel.

- Connect the adapter's 8-pin black connector to the extension harness.

- Plug the blue POWER ANT terminal to amplified antenna adapter (if required).
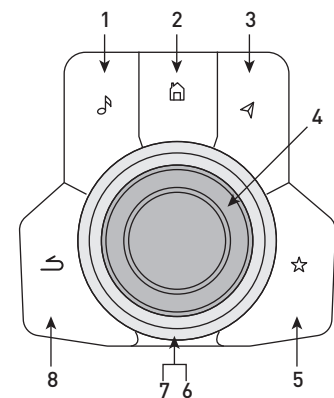
STEP 5

- 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.

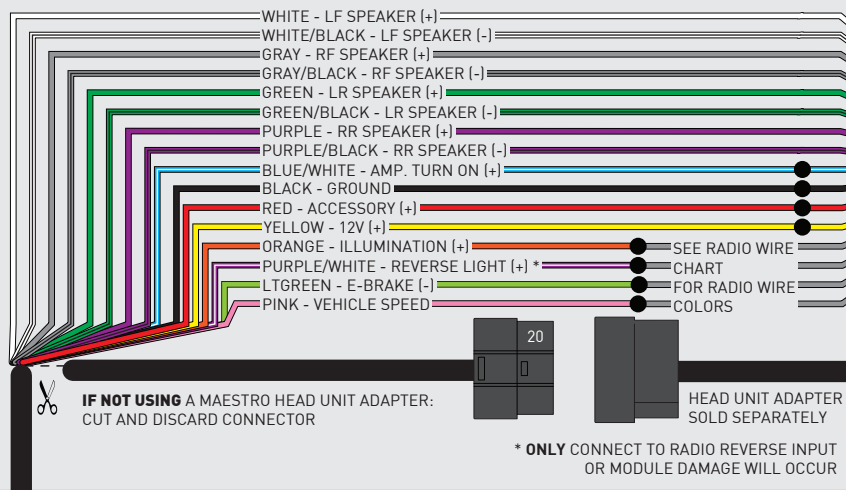- **Reconnect the negative battery terminal then test your installation.**
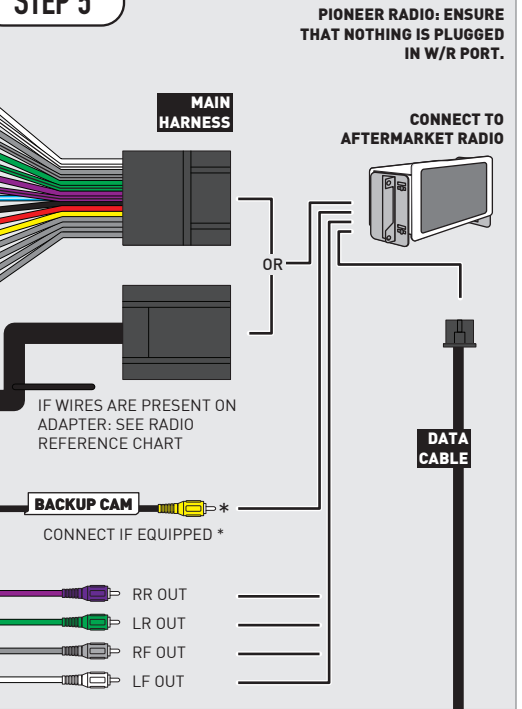
Rotary Commander Info

1. Music Button : SOUND MENU

2. Home Button : POWER ON/OFF / HOME SCREEN

3. Nav Button : NAVIGATION SCREEN

4. Volume Knob : VOL UP/DOWN, push = MUTE

5. Star Button : CAR INFO SCREEN

6. Big Knob : push = FRONT CAMERA/360 CAMERA VIEWS, turn right : PRESET NEXT, Turn left : PRESET PREV

7. Big Knob : left: SEEK DOWN, right : SEEK UP, up: NEXT SOURCE, down : PREVIOUS SOURCE

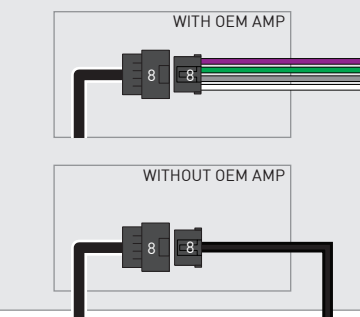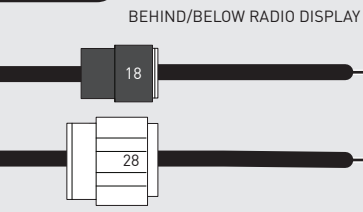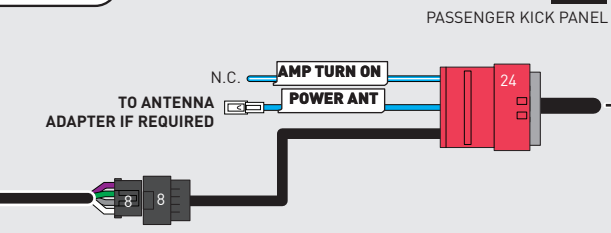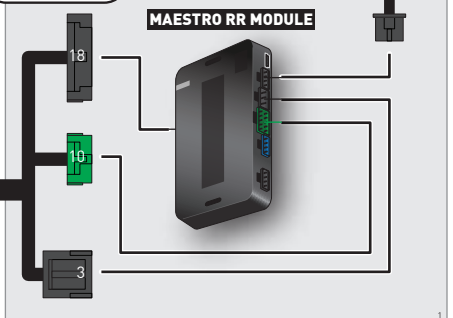8. Back Button: GAUGES SCREEN

WIRING DIAGRAM
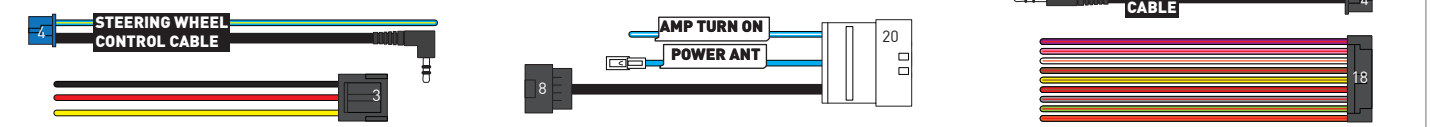
RADIO WIRE REFERENCE CHART

MA2 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

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

PROGRAMMING BUTTON

LED 1

LED 2

LED 1

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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If anything 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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