



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, BACKUP CAMERA, AND MORE!



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**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-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.

NEED HELP?

☎ 1 866 427-2999

✉ maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

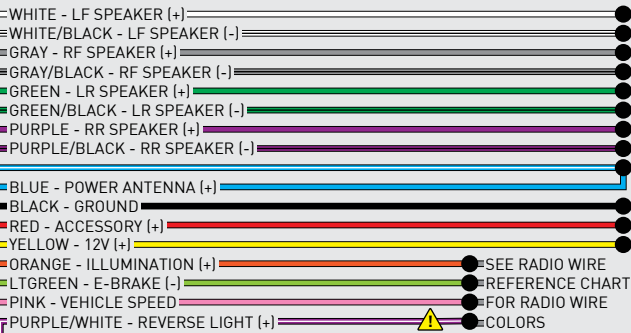
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

STEP 5

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO
CABLE

3

16

18

10a

10

3



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

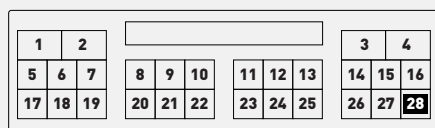
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

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[VERIFY FLASH](#)



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[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
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- Unbox the aftermarket radio and locate its main harness.
- Cut and remove the black 20 pin connector from the HRR-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

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STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

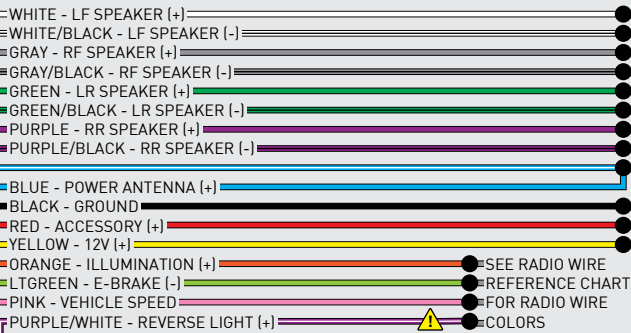
- MODE** - Change view
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KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
 SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
 CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
 AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
 ADAPTER: SEE RADIO
 REFERENCE CHART

BACKUP CAM

RF OUT
 LF OUT

DATA
 CABLE

STEP 2

WITHOUT OEM
 AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
 VEHICLE

MIC

To MIC1 (optional) Refer to Additional
 Information and Accessories page for
 the MIC1 installation guide link.

2 NC

AMP TURN ON

NC

HHR-T03 T-HARNESS

STEP 5

NOT REQUIRED

STEERING WHEEL
 CONTROL CABLE

AUDIO CABLE

3

16

18

10a

10

3

10a

2

18

3a

1

RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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
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VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

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

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ACC-HU-KEN2 Wire Description	Polarity	Wire Color on Adapter	Kenwood Radio
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Reverse Light*	(+)	Purple/White	Purple/White
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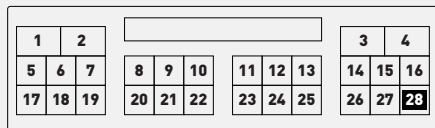
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LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
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28 PIN CONNECTOR - WIRE SIDE VIEW

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STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

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(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

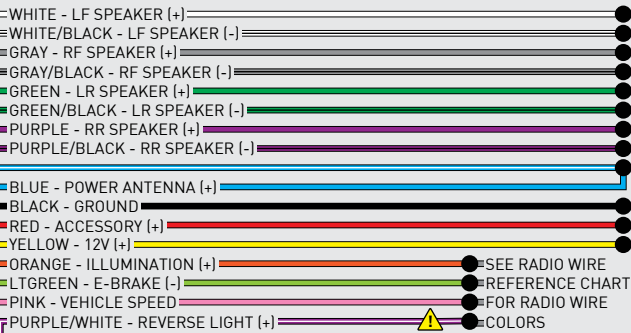
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IF WIRES ARE PRESENT ON
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RF OUT
 LF OUT

DATA
 CABLE

STEP 2

WITHOUT OEM
 AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
 VEHICLE

MIC

To MIC1 (optional) Refer to Additional
 Information and Accessories page for
 the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

STEP 5

NOT REQUIRED

STEERING WHEEL
 CONTROL CABLE

AUDIO
 CABLE

3

16

18

10a

10

3

10a

2

18

10

3

4

1

RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

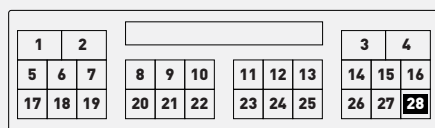
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div> <div></div> or <div></div> </div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-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.

NEED HELP?

☎ 1 866 427-2999

✉ maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

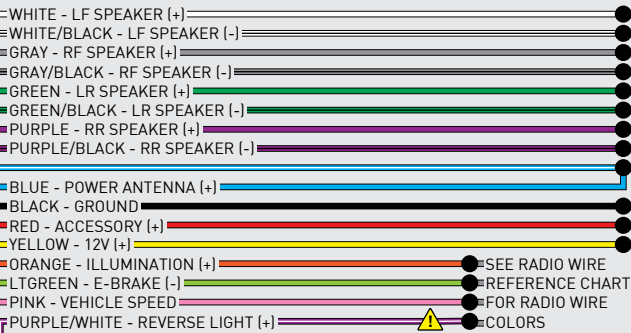
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
 SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
 CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
 AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
 ADAPTER: SEE RADIO
 REFERENCE CHART

BACKUP CAM

RF OUT
 LF OUT

DATA
 CABLE

STEP 2

WITHOUT OEM
 AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
 VEHICLE

MIC

To MIC1 (optional) Refer to Additional
 Information and Accessories page for
 the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

STEP 5

NOT REQUIRED

STEERING WHEEL
 CONTROL CABLE

AUDIO CABLE

3

16

18

10a

10

3

10a

2

18

10

3

4

1

RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

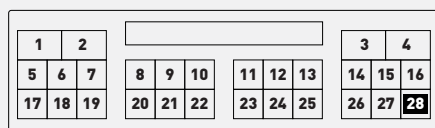
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
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There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-RR-DS

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

NEED HELP?

☎ 1 866 427-2999

✉ maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

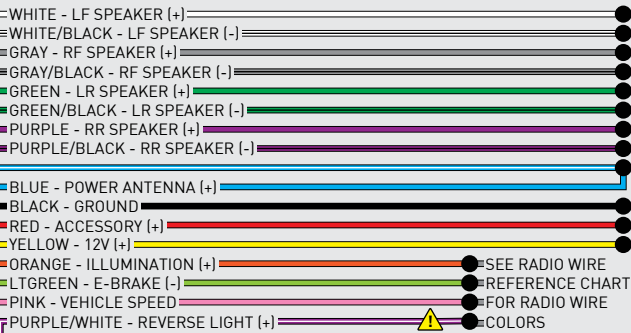
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON

NC

HHR-T03 T-HARNESS

STEP 5

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO
CABLE

3

16

18

10a

10

3

10a

2

18

10

3

4

1

1

RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

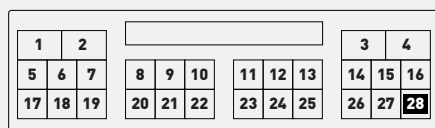
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div><div></div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div><div></div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div><div></div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div><div></div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-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.

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

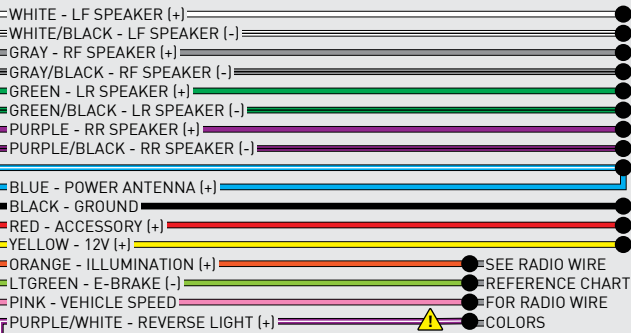
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

STEP 5

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO
CABLE

3

16

18

10a

10

3



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

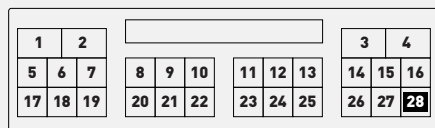
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div> <div></div> or <div></div> </div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



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**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-RR-DS

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

NEED HELP?

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ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
 - Connect the backup camera RCA cable into the aftermarket radio (if equipped).
 - 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

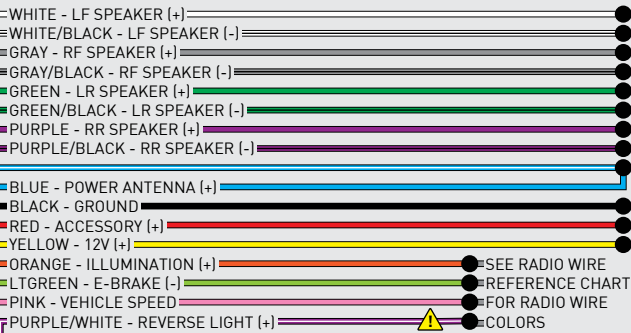
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
 SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
 CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
 AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
 ADAPTER: SEE RADIO
 REFERENCE CHART

BACKUP CAM

RF OUT
 LF OUT

DATA
 CABLE

STEP 2

WITHOUT OEM
 AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
 VEHICLE

MIC

To MIC1 (optional) Refer to Additional
 Information and Accessories page for
 the MIC1 installation guide link.

2 NC

AMP TURN ON

NC

HHR-T03 T-HARNESS

STEP 5

NOT REQUIRED

STEERING WHEEL
 CONTROL CABLE

AUDIO
 CABLE

3

16

18

10a

10

3

10a

2

18

10

3

4

1



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

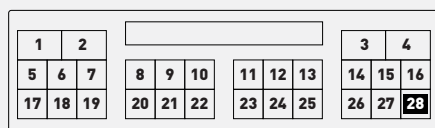
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div> <div></div> or <div></div> </div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
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28 PIN CONNECTOR - WIRE SIDE VIEW

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Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

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+



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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](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

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- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

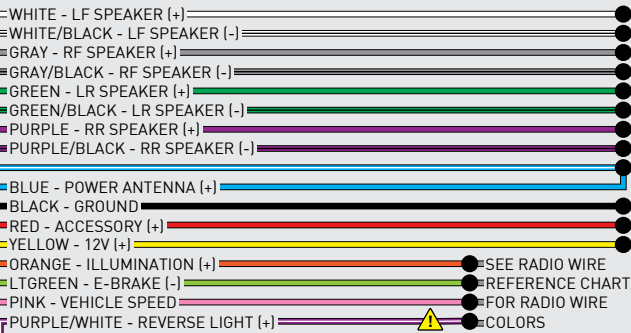
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON

NC

HHR-T03 T-HARNESS

STEP 5

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO CABLE

3

16

18

10a

10

3



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

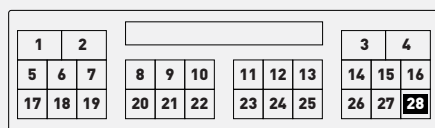
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-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.

NEED HELP?

☎ 1 866 427-2999

✉ maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

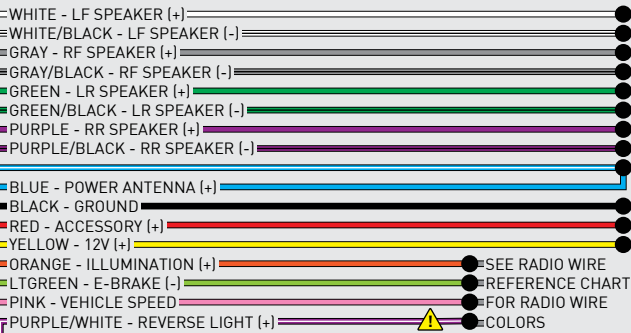
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT



ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

STEP 5

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO CABLE

3

16

18

10a

10

3



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

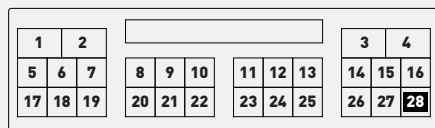
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div><div></div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div><div></div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
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<div><div></div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-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-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

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

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

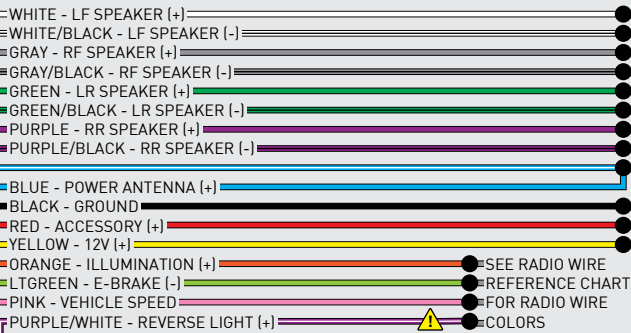
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

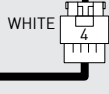
BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

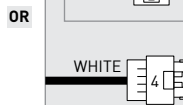
STEP 2

WITHOUT OEM
AMPLIFIER



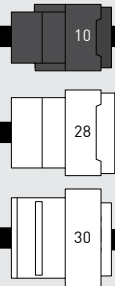
STEP 2

WITH OEM AMPLIFIER



STEP 3

FACTORY RADIO HARNESS



WIRES FROM
VEHICLE

STEP 5

MIC

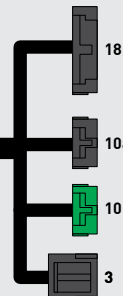
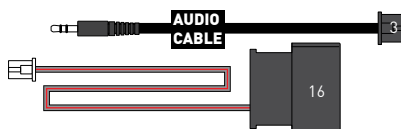
To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

NOT REQUIRED



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

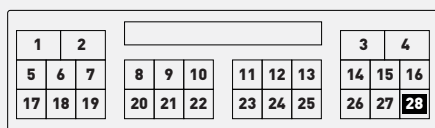
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-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.

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NEED HELP?

☎ 1 866 427-2999

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ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
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MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

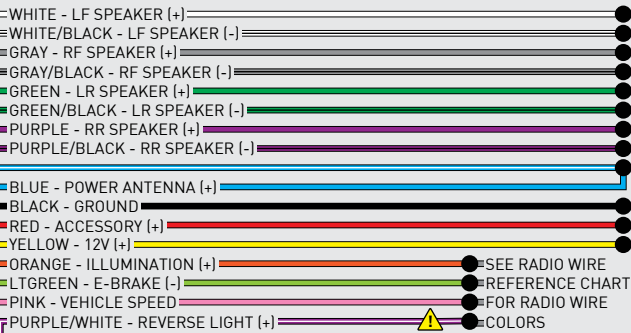
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

STEP 5

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO CABLE

3

16

18

10a

10

3



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

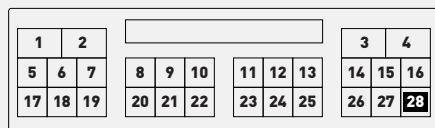
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Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
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Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

MAESTRO RR RESET PROCEDURE:

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

Press and hold the module's programming button and connect all the connectors back to the module. Wait, the module's LED will flash RED rapidly (this may take up to 10 seconds).

Release the programming button. Wait, the LED will turn solid GREEN for 2 seconds to show the reset was successful.

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-RR-DS

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NEED HELP?

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ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the HRR-T03 harness 2-pin white connector to OBDII cable. Plug the cable to OBDII in vehicle..

STEP 5

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- Plug the Data cable to the data port of the aftermarket radio.

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

STEP 6

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

[select vehicles/optional feature — activate 4LO and press the camera button to access]:

Camera controls (with camera active)

- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

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 - POWER ANTENNA (+)
 BLACK - GROUND
 RED - ACCESSORY (+)
 YELLOW - 12V (+)
 ORANGE - ILLUMINATION (+)
 LTGREEN - E-BRAKE (-)
 PINK - VEHICLE SPEED
 PURPLE/WHITE - REVERSE LIGHT (+)

SEE RADIO WIRE
 REFERENCE CHART
 FOR RADIO WIRE
 COLORS

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

HEAD UNIT ADAPTER
 SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
 CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 5

MAIN HARNESS

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

CONNECT TO
 AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
 ADAPTER: SEE RADIO
 REFERENCE CHART

BACKUP CAM

RF OUT
 LF OUT

DATA
 CABLE

STEP 2

WITHOUT OEM
 AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
 VEHICLE

STEP 4

OBDII CONNECTOR

2

16

MIC

To MIC1 (optional) Refer to Additional
 Information and Accessories page for
 the MIC1 installation guide link.

2 NC

AMP TURN ON

NC

HHR-T03 T-HARNESS

STEP 6

18

10a

10

3



NOT REQUIRED

AUDIO
 CABLE

3

STEERING WHEEL
 CONTROL CABLE

RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

Head unit adapter wiring (optional accessory, sold separately)

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

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

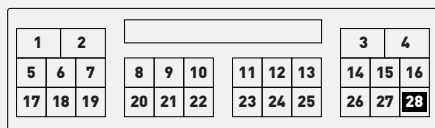
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28 PIN CONNECTOR - WIRE SIDE VIEW

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

NEED HELP?

☎ 1 866 427-2999

✉ maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

HEAD UNIT ADAPTER:
ACC-HU-PI01, SON1, KEN1, KEN2, ALP1

MIC1
(Factory microphone interface module)

[MIC1 INSTALL GUIDE](#)

Radar Detectors



[Radar Installation Guides](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/1

STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 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-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
- Connect the backup camera RCA cable into the aftermarket radio (if equipped).
- 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

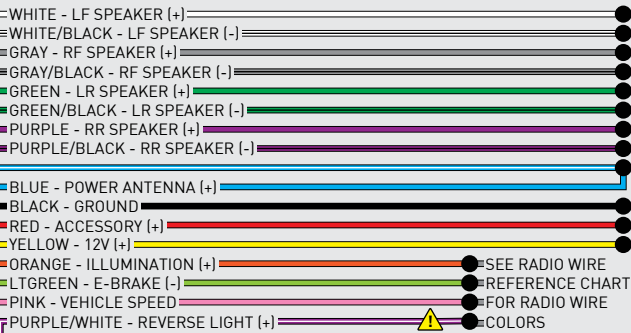
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER

WHITE

STEP 2

WITH OEM AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

STEP 5

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON NC

HHR-T03 T-HARNESS

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO
CABLE

3

16

18

10a

10

3

10a

2

18

10

3

4

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4

RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

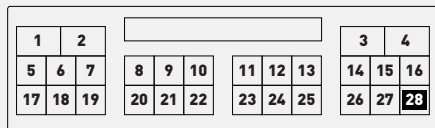
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div><div></div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
<div><div></div></div>	2 RED flashes	Problem detected. Consult troubleshooting table.
<div><div></div></div>	1 GREEN flash	After radio boots up : Normal operation.
<div><div></div></div>	OFF	Normal operation (inactive).

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle. If you hardwired connections at the OBDII, check connections at the OBDII connector. Make sure the RED/BROWN wire is on PIN 6 and the YELLOW/BROWN wire is connected to PIN 14 of the OBDII connector. Do not use T-Taps. Soldering or military splicing methods are recommended.</p> <p>If anything else is connected to the OBD2 or CAN wires of vehicle (programmer, throttle controller, insurance tracker, etc.) try unplugging it to see if gauges work. If gauges work without it installed, call tech support for options.</p> <p>Reset the RR.</p>
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
The light on the Maestro is blinking RED TWICE but radio is NOT turning on.	<p>If installing a floating screen type 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.</p>
There is no image from the backup camera, just a black screen.	<p>Ensure the yellow backup camera RCA cable is connected to the proper input on the radio (i.e. Brown "BC IN" on Pioneer or yellow backup/reverse video input on other brands).</p>
Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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.

RETAINS STEERING WHEEL CONTROLS, BACKUP CAMERA, AND MORE!



+



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR Radio Replacement Interface
iDatalink Maestro HRR-T03 Installation Harness

PROGRAMMED FIRMWARE: T03-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.

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NEED HELP?

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Software to program module.

[WEBLINK](#)



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STEP 1

- Remove the factory radio.
If using head unit adapter (sold separately), connect HRR-T03 harness to adapter and skip to step 2.
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- Cut and remove the black 20 pin connector from the HRR-T03 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the HRR-T03 T-harness and match the wire functions.

Note: Purple/white is a low current positive output used to trigger the radio only. Do NOT connect to anything other than the radio's reverse input. Refer to radio wire chart for radio's reverse light wire color.

If no camera is installed/desired, do not connect the radio's reverse wire. If installing an aftermarket camera, do NOT connect power for the camera to the Maestro's purple/white wire or module damage will occur.

STEP 2

- Determine if the vehicle has a factory amplifier.
If the vehicle DOES NOT have a JBL factory amplifier:
- Plug in the HRR-T03 4-pin white connectors.
- If the vehicle DOES have a JBL factory amplifier:**
- Unlug the HRR-T03 4-pin white connectors.
- Connect the 4-pin white to 4-pin white connector with RCAs. Connect the RCAs to the radio outputs: white/left front, gray/right front.

STEP 3

- Connect the factory harness to the HRR-T03 T-harness.

STEP 4

- Plug the harnesses into the aftermarket radio.
 - Connect the backup camera RCA cable into the aftermarket radio (if equipped).
 - 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 5

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

CAMERA CONTROLS

REAR CAMERA ONLY with controls on factory radio screen:

Camera controls (with vehicle in reverse)

- MODE** - Normal/wide view toggle
- SEEK UP** - Change guidelines
- SEEK DOWN** - Mute/unmute rear cross traffic alert

PANORAMIC/360 CAMERA:

Note: If equipped with Bird's Eye camera, be sure to set the factory radio "AUTO ON" for the radio to change from rear/front camera automatically and allow the vehicle camera button to switch 360 degree views.

Camera controls (with vehicle in reverse)

- MODE** - Change view
- SEEK UP** - Zoom in/out
- SEEK DOWN** - Change guidelines

PANORAMIC/360, WITH OFFROAD CAMERA ACTIVATED

(select vehicles/optional feature — activate 4LO and press the camera button to access):

Camera controls (with camera active)

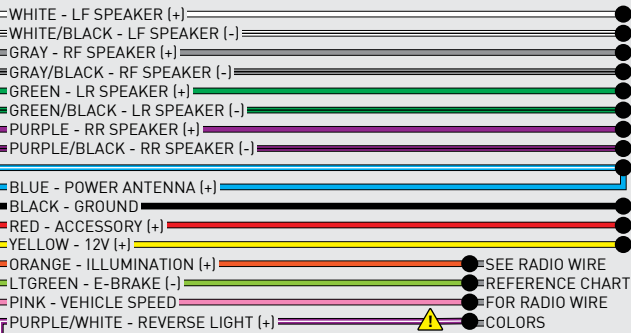
- MODE** - Change view
- SEEK UP** - Auto button on Offroad view

KENWOOD/JVC/SONY RADIOS - touch left or right side of screen

Note: For Sony radios with OSD Controllable camera: When the vehicle is equipped with the bird's eye view camera system, plug the camera into Camera 1 on the radio. This is the only camera input that allows camera control through the touchscreen

WIRING DIAGRAM

STEP 1



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

HEAD UNIT ADAPTER
SOLD SEPARATELY

POWER ANT

ONLY CONNECT PURPLE/WHITE WIRE TO RADIO REVERSE INPUT, NOT TO A
CAMERA OR OTHER ACCESSORY, OR MODULE DAMAGE WILL OCCUR.

STEP 4

MAIN HARNESS

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

CONNECT TO
AFTERMARKET RADIO

IF WIRES ARE PRESENT ON
ADAPTER: SEE RADIO
REFERENCE CHART

BACKUP CAM

RF OUT
LF OUT

DATA
CABLE

STEP 2

WITHOUT OEM
AMPLIFIER
OR WITH
NON-JBL AMP.

WHITE

STEP 2

WITH OEM JBL AMPLIFIER

UNPLUG

WHITE

STEP 3

FACTORY RADIO HARNESS

10

28

30

WIRES FROM
VEHICLE

MIC

To MIC1 (optional) Refer to Additional
Information and Accessories page for
the MIC1 installation guide link.

2 NC

AMP TURN ON

NC

HHR-T03 T-HARNESS

STEP 5

NOT REQUIRED

STEERING WHEEL
CONTROL CABLE

AUDIO CABLE

3

16

18

10a

10

3

10a

2

18

3a

6

10

3

4



RADIO WIRE REFERENCE CHART

HRR-T03 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood 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

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

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

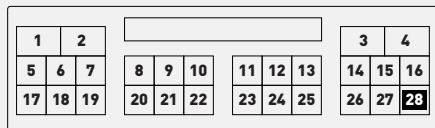
MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED STATUS	DIAGNOSTIC
<div><div></div> or <div></div></div>	RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
<div><div></div></div>	1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <u>NOT</u> use DEMO MODE.
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PROBLEM	SOLUTION
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The light on the Maestro is blinking RED TWICE and the radio IS turning on.	<p>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.</p> <p>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.</p>
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Radio does not switch to reverse cam input when shifting to reverse.	<p>Verify the purple/white wire from the Maestro is connected to the radio's reverse input trigger (purple/white on most, Alpine may be orange/white - read radio manual to confirm).</p> <p>If the purple/white is connected: Use a multimeter to verify you have 12v DC when in reverse, 0v in any other position. If so, check radio settings for "Reverse Interrupt" or similar, and ensure it is enabled/ON.</p> <p>If it's the opposite, 12v in park/neutral/drive, but 0v in reverse, the module output has been damaged and will need replaced. Make sure ONLY the radio's reverse trigger is connected to the Maestro purple/white wire.</p> <p>If 0v in any gear, test pin 28 of the vehicle's 28 pin connector for reverse. Color varies but identify the wire that reads 12v in reverse only and splice into it and connect it, instead of the Maestro purple/white wire, to the radio's reverse trigger input. (Maestro purple/white wire is not used).</p>



28 PIN CONNECTOR - WIRE SIDE VIEW

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