



HOW TO USE THIS INSTALL GUIDE

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

WARNING

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

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro CHA1 Dash Kit

PROGRAMMED FIRMWARE: CH3-RR-DS

WELCOME

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

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)

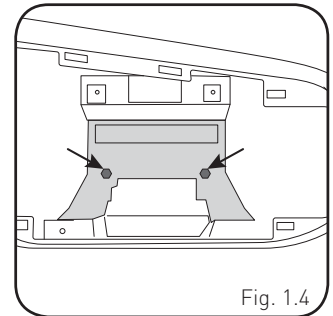
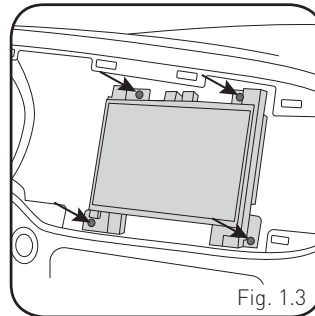
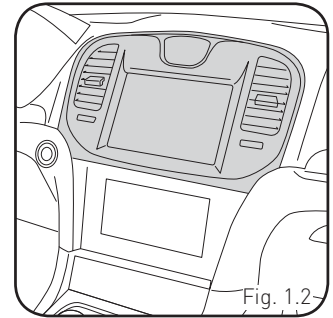
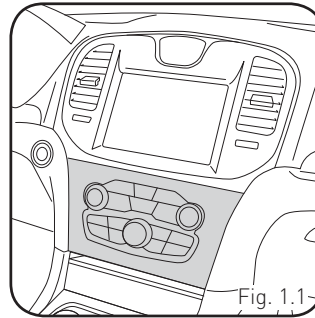


INSTALLATION INSTRUCTIONS P1/3

NOTE: A shallow-mount Maestro-enabled radio is required.

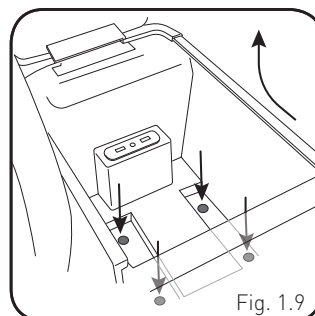
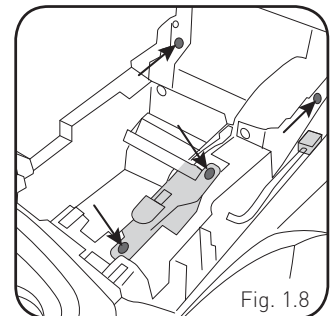
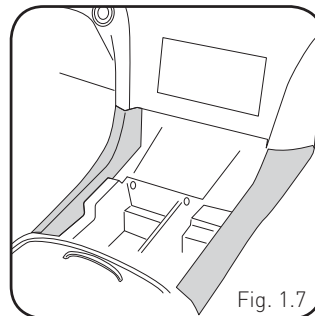
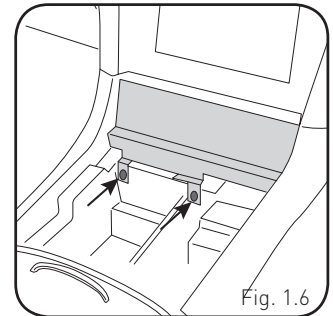
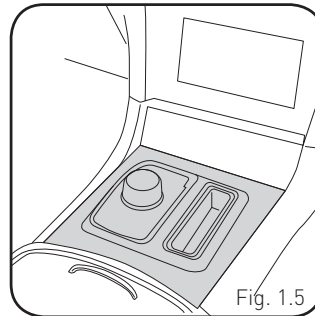
DASH DISASSEMBLY

1. Using a panel tool, pry outward on the climate controls to release the four clips securing it. Then, disconnect the wiring harness from the back. (Fig. 1.1)
2. Using a panel tool, pry outward on the radio bezel and remove it. (Fig. 1.2)
3. Remove the four (4) 7mm screws securing the factory radio into the dash cavity. Remove the radio and disconnect the wiring harnesses and antenna connections from the back.. (Fig. 1.3)
4. To make room for the aftermarket radio, a section of the sub dash must be removed. Remove the two (2) 7mm screws at the back part of the dash. Then cut out the highlighted section. (Fig. 1.4)



CENTER CONSOLE DISASSEMBLY

5. Using a panel tool, pry upward on the shifter trim to release the clips securing it. Disconnect the shifter wiring harness. (Fig. 1.5)
6. Remove the two (2) 7mm screws securing the front storage compartment. Disconnect the power port wiring harness from the back. (Fig. 1.6)
7. Using a panel tool, remove the front side console trim panels. (Fig. 1.7)
8. Disconnect the wire harness connector on passenger side of console. Remove 4 screws and set park release cable assembly aside. (Fig. 1.8)
9. Open console lid, remove the coin holder and mat. Remove the four screws securing console to the floor. Slide console back slightly, lift, and unplug wiring connectors. Remove the console. (Fig. 1.9)
10. Using a panel tool, depress the clips and remove the USB hub from the center console by pushing it upward.



INSTALLATION INSTRUCTIONS P2/3

INSTALL USB HUB

11. Snap the USB hub into the console.
12. Route the USB cables along other wiring up to the radio location, leaving enough slack to plug into the HUB.

Reassemble the center console, using reverse order of the removal steps.

ASSEMBLE THE CHA1 DASH BEZEL

13. Mount the metal brackets to the aftermarket radio using the screws supplied with the radio. (Fig. 1.17)
14. Select the proper radio trim bezel provided with the CHA1.
 - If the vehicle was equipped with the 5" screen, use bezel marked "5"
 - If the vehicle was equipped with the 8" screen, use bezel marked "8"
15. Place the bezel onto the radio and secure it with the six Phillips screws provided with the CHA1. (Fig. 1.18, 1.19)

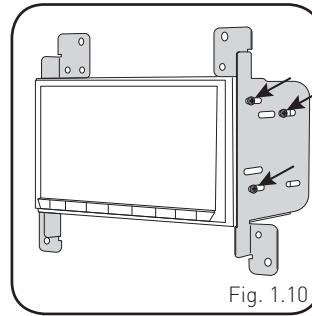


Fig. 1.10

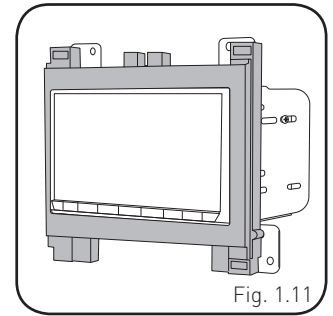


Fig. 1.11

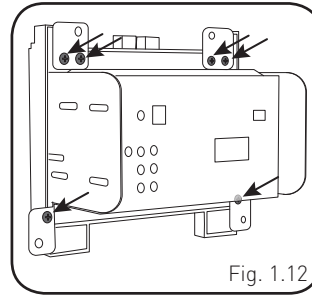


Fig. 1.12

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-CHA1 harness to adapter and skip to step 2.

Locate the aftermarket radio's main harness.

Cut and remove the black 20 pin connector from the CHA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the CHA1 T-harness and match the wire functions.

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

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

If the vehicle DOES NOT have a factory amplifier:

Plug the female BLACK connector to the male BLACK connector of your CHA1 T-harness.

Plug the female WHITE connector to the male WHITE connector of your CHA1 T-harness.

If the vehicle DOES have a factory amplifier:

Plug the female BLACK connector to the male WHITE connector of your CHA1 T-harness.

Plug the female WHITE connector to the male BLACK connector of your CHA1 T-harness.

- Connect the CHA1 T-harness to the radio factory harness.
- Connect the supplied antenna adapter to the factory antenna connection.

3. Plug the harnesses into the aftermarket radio.

Connect the backup cam cable into the aftermarket radio.

Connect the antenna adapter to the aftermarket radio.

Plug the 4-pin Data cable to the data port (iDatalink I/F port) of the aftermarket radio.

Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

4. Connect all the harnesses to the Maestro RR module (see wiring diagram).

If using an Alpine radio and the vehicle is equipped with parking sensors, lane departure, or other safety systems but NOT factory amplified, the ACC-SP1 is required.

All other radio brands, ACC-SP1 is optional.

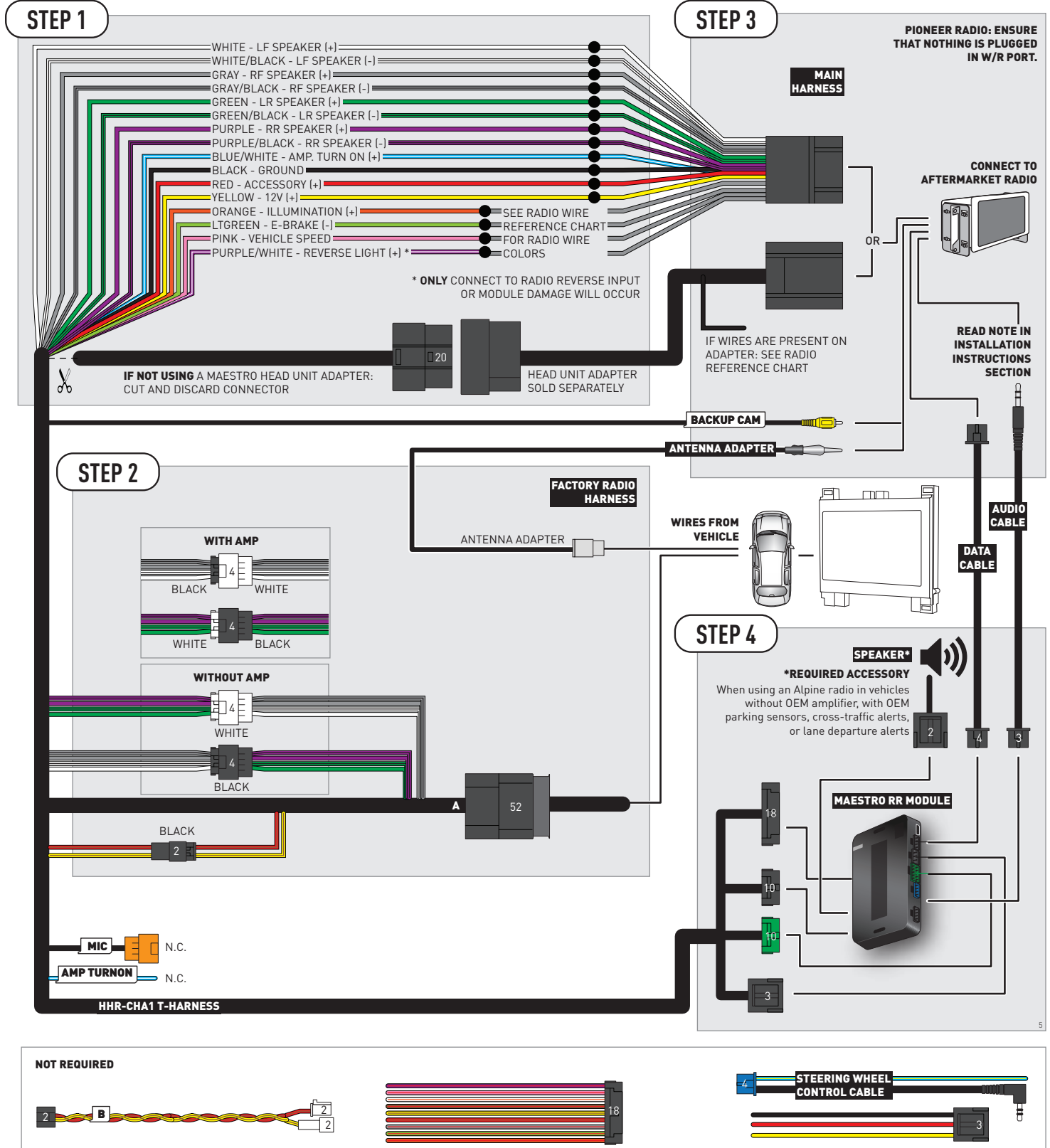
Without it, the radio will mute when park assist is active. With it, the chime will play through the speaker and the radio will not mute unless settings are changed in the radio. If factory amplified, the amplifier generates the chimes and ACC-SP1 is not required.

Press the CHA1 T harness, Maestro, and antenna adapter into the dash cavity and secure in place with cable ties.

Press the aftermarket radio into the dash cavity and secure it with the four 7mm screws removed earlier.

Reinstall the dash panel making sure all the clips snap into place.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CHA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If diagram shows CAN connections at CAN junction block, ensure a factory 2-pin white plug was disconnected, inserted into the female 2-pin of the CHA1 extension and the male 2-pin of the extension was plugged back into the junction block. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Make sure that the 4-pin black and white connectors in the harness are plugged in correctly as stated in step 2.
The radio stays ON or doesn't come ON at all. The light on the Maestro is not blinking.	Make sure the 2-pin connectors in the harness are connected as stated in step 2.
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



**HEAD UNIT
ADAPTER READY**

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Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)

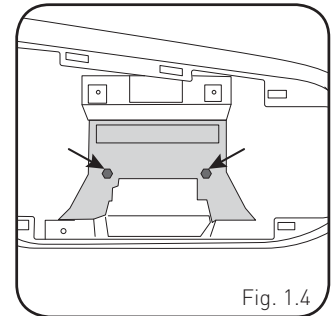
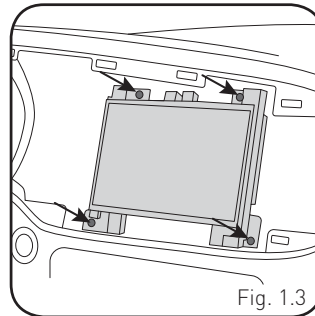
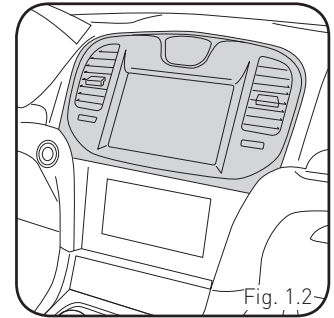
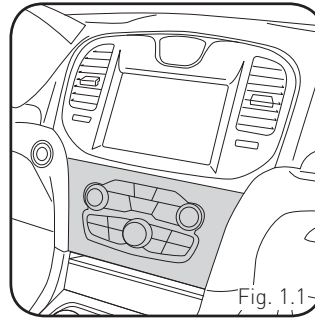


INSTALLATION INSTRUCTIONS P1/3

NOTE: A shallow-mount Maestro-enabled radio is required.

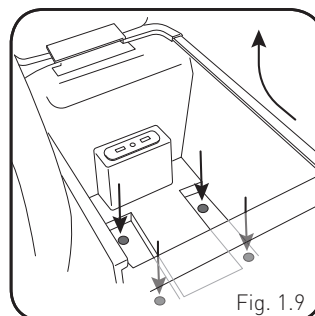
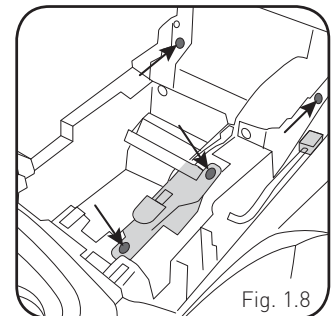
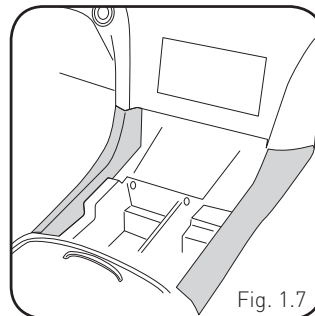
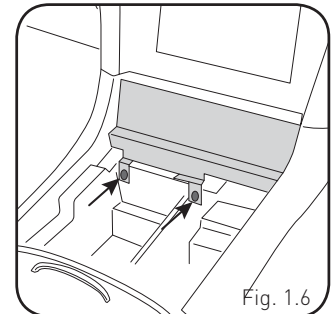
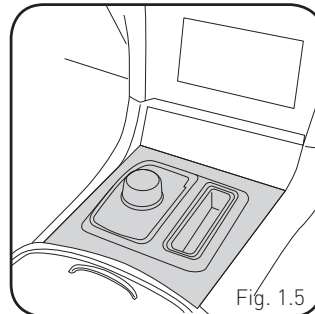
DASH DISASSEMBLY

1. Using a panel tool, pry outward on the climate controls to release the four clips securing it. Then, disconnect the wiring harness from the back. (Fig. 1.1)
2. Using a panel tool, pry outward on the radio bezel and remove it. (Fig. 1.2)
3. Remove the four (4) 7mm screws securing the factory radio into the dash cavity. Remove the radio and disconnect the wiring harnesses and antenna connections from the back.. (Fig. 1.3)
4. To make room for the aftermarket radio, a section of the sub dash must be removed. Remove the two (2) 7mm screws at the back part of the dash. Then cut out the highlighted section. (Fig. 1.4)



CENTER CONSOLE DISASSEMBLY

5. Using a panel tool, pry upward on the shifter trim to release the clips securing it. Disconnect the shifter wiring harness. (Fig. 1.5)
6. Remove the two (2) 7mm screws securing the front storage compartment. Disconnect the power port wiring harness from the back. (Fig. 1.6)
7. Using a panel tool, remove the front side console trim panels. (Fig. 1.7)
8. Disconnect the wire harness connector on passenger side of console. Remove 4 screws and set park release cable assembly aside. (Fig. 1.8)
9. Open console lid, remove the coin holder and mat. Remove the four screws securing console to the floor. Slide console back slightly, lift, and unplug wiring connectors. Remove the console. (Fig. 1.9)
10. Using a panel tool, depress the clips and remove the USB hub from the center console by pushing it upward.



INSTALLATION INSTRUCTIONS P2/3

INSTALL USB HUB

11. Snap the USB hub into the console.
12. Route the USB cables along other wiring up to the radio location, leaving enough slack to plug into the HUB.

Reassemble the center console, using reverse order of the removal steps.

ASSEMBLE THE CHA1 DASH BEZEL

13. Mount the metal brackets to the aftermarket radio using the screws supplied with the radio. (Fig. 1.17)
14. Select the proper radio trim bezel provided with the CHA1.
 - If the vehicle was equipped with the 5" screen, use bezel marked "5"
 - If the vehicle was equipped with the 8" screen, use bezel marked "8"
15. Place the bezel onto the radio and secure it with the six Phillips screws provided with the CHA1. (Fig. 1.18, 1.19)

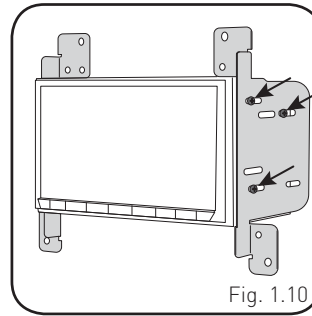


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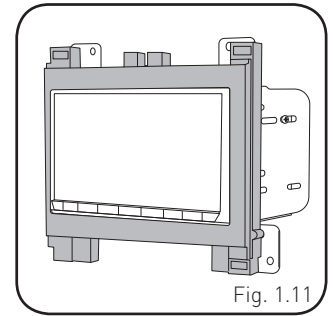


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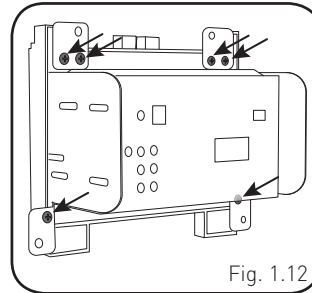


Fig. 1.12

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-CHA1 harness to adapter and skip to step 2.

Locate the aftermarket radio's main harness.

Cut and remove the black 20 pin connector from the CHA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the CHA1 T-harness and match the wire functions.

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

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

If the vehicle DOES NOT have a factory amplifier:

Plug the female BLACK connector to the male BLACK connector of your CHA1 T-harness.

Plug the female WHITE connector to the male WHITE connector of your CHA1 T-harness.

If the vehicle DOES have a factory amplifier:

Plug the female BLACK connector to the male WHITE connector of your CHA1 T-harness.

Plug the female WHITE connector to the male BLACK connector of your CHA1 T-harness.

- Connect the CHA1 T-harness to the radio factory harness.
- Connect the supplied antenna adapter to the factory antenna connection.

3. Route **B** harness to the CAN junction located right side of dash. Disconnect one of the 2-pin connectors and plug it into the female **B** harness plug. Connect the male 2-pin from **B** harness to the CAN junction block. Connect **B** harness to main T-harness.

Note: this connection is only required for 2018+ models.

4. Plug the harnesses into the aftermarket radio.

Connect the backup cam cable into the aftermarket radio.

Connect the antenna adapter to the aftermarket radio.

Plug the 4-pin Data cable to the data port (iDatalink I/F port) of the aftermarket radio.

Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

5. Connect all the harnesses to the Maestro RR module (see wiring diagram).

If using an Alpine radio and the vehicle is equipped with parking sensors, lane departure, or other safety systems but NOT factory amplified, the ACC-SP1 is required.

All other radio brands, ACC-SP1 is optional.

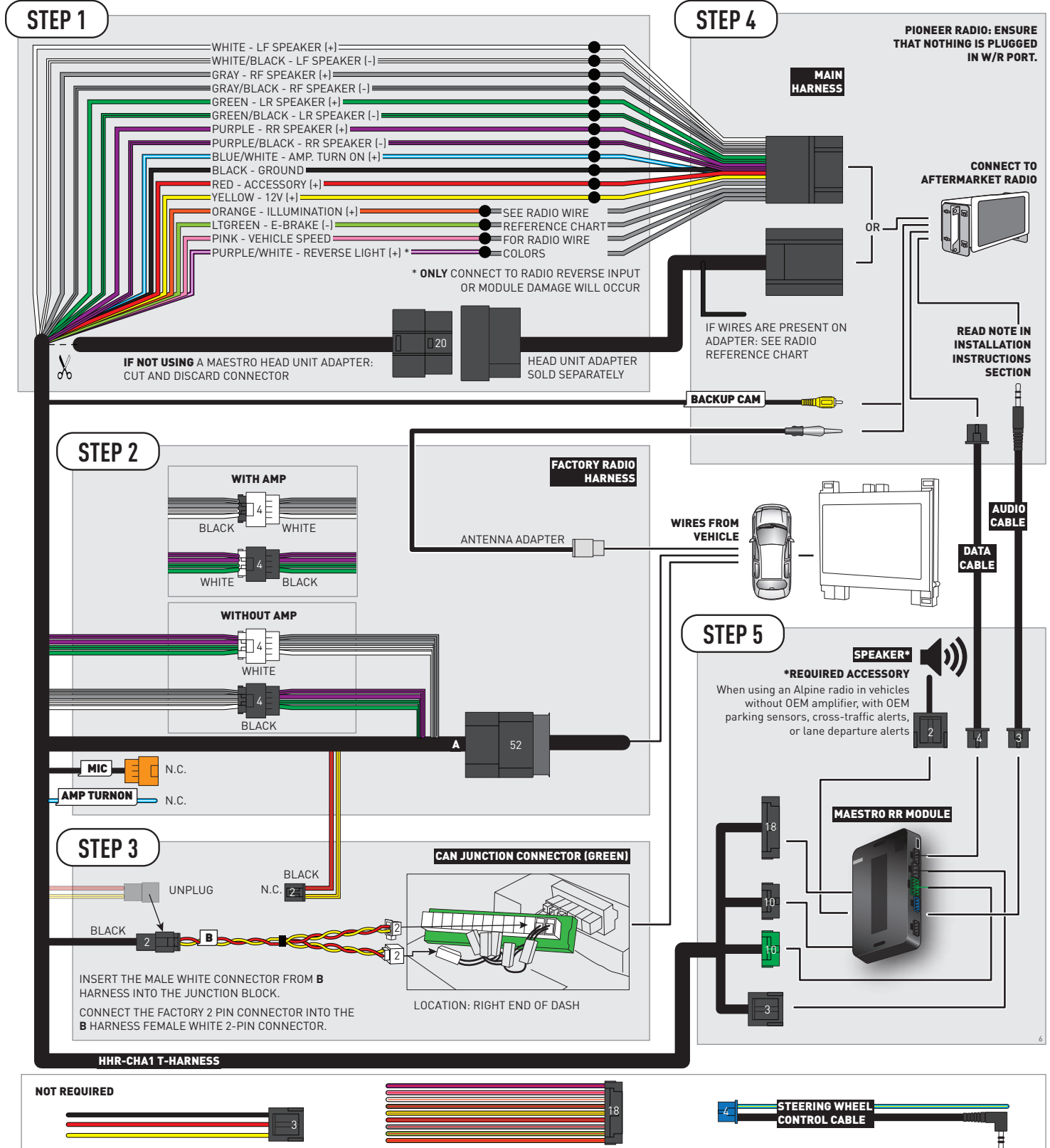
Without it, the radio will mute when park assist is active. With it, the chime will play through the speaker and the radio will not mute unless settings are changed in the radio. If factory amplified, the amplifier generates the chimes and ACC-SP1 is not required.

Press the CHA1 T harness, Maestro, and antenna adapter into the dash cavity and secure in place with cable ties.

Press the aftermarket radio into the dash cavity and secure it with the four 7mm screws removed earlier.

Reinstall the dash panel making sure all the clips snap into place.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CHA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If diagram shows CAN connections at CAN junction block, ensure a factory 2-pin white plug was disconnected, inserted into the female 2-pin of the CHA1 extension and the male 2-pin of the extension was plugged back into the junction block. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Make sure that the 4-pin black and white connectors in the harness are plugged in correctly as stated in step 2.
The radio stays ON or doesn't come ON at all. The light on the Maestro is not blinking.	Make sure the 2-pin connectors in the harness are connected as stated in step 2.
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro CHA1 Dash Kit

PROGRAMMED FIRMWARE: CH3-RR-DS

WELCOME

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

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

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

NEED HELP?

☎ 1 866 427-2999

✉ maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)

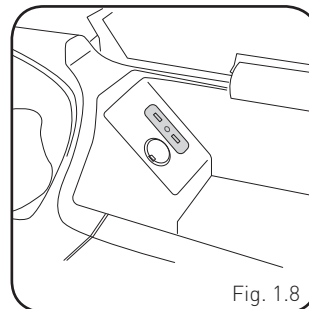
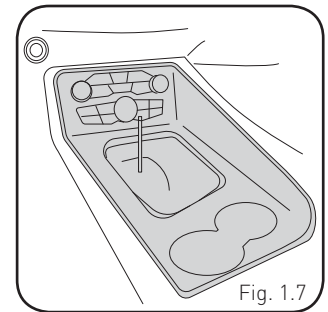
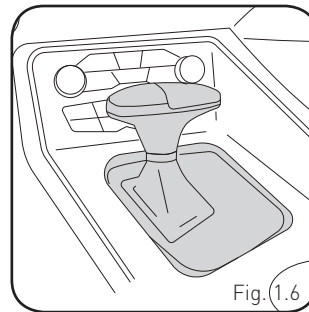
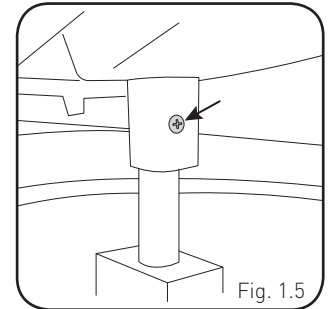
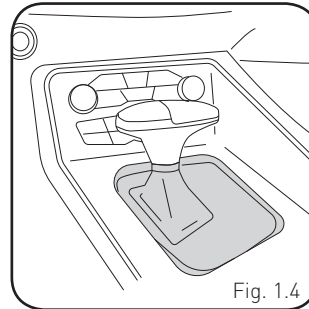
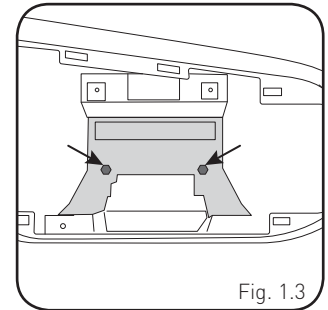
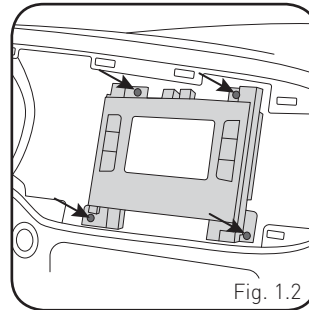
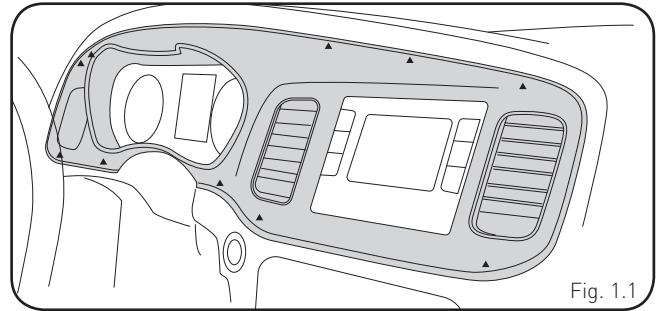


INSTALLATION INSTRUCTIONS P1/3

NOTE: A shallow-mount Maestro-enabled radio is required.

DASH DISASSEMBLY

1. Adjust the steering wheel down and outward to make clearance for removing the radio trim bezel.
2. Using a panel tool, pry outward on the dash trim and remove it. There are 10 clips securing it to the dash. (Fig. 1.1)
3. Remove the four (4) 7mm screws securing the factory radio into the dash cavity. Remove the radio and disconnect the wiring harnesses and antenna connections from the back.. (Fig. 1.2)
4. To make room for the aftermarket radio, a section of the sub dash must be removed. Remove the two (2) 7mm screws at the back part of the dash. Then cut out the highlighted section. (Fig. 1.3)



CENTER CONSOLE DISASSEMBLY

5. Using a panel tool, pry upward on the shifter trim to release the clips securing it. Disconnect the shifter wiring harness. (Fig. 1.4)
6. Remove the single Torx screw from the base of the shifter assembly. (Fig. 1.5)
7. Remove the shifter assembly. (Fig. 1.6)
8. Using a panel tool, pry upward on the rear of the center console trim. Then, firmly pull backwards to release the front clips. Disconnect the climate control wiring harness and remove the trim. (Fig. 1.7)
9. Open the center console compartment and remove the USB hub. Disconnect the wiring harnesses. (Fig. 1.8)

INSTALLATION INSTRUCTIONS P2 / 3

INSTALL USB HUB

- Route the USB hub cables through center console to the dash cavity. Snap the USB hub into place.

Reassemble the center console.

ASSEMBLE THE CHA1 DASH BEZEL

- Mount the metal brackets to the aftermarket radio using the screws supplied with the radio. (Fig. 2.1)
- Select the proper radio trim bezel provided with the CHA1.
 - If the vehicle was equipped with the 5" screen, use bezel marked "5"
 - If the vehicle was equipped with the 8" screen, use bezel marked "8"
- Place the bezel onto the radio and secure it with the six Phillips screws provided with the CHA1. (Fig. 2.2, 2.3)

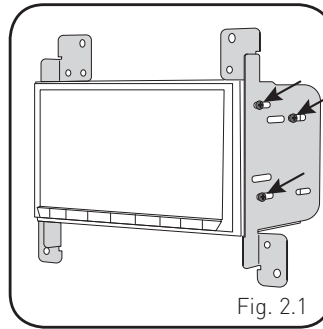


Fig. 2.1

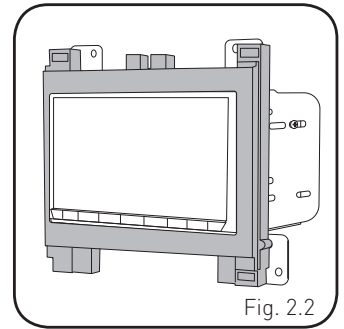


Fig. 2.2

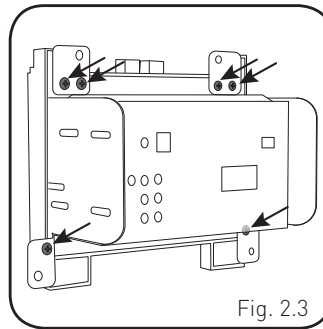


Fig. 2.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-CHA1 harness to adapter and skip to step 2.

Locate the aftermarket radio's main harness.

Cut and remove the black 20 pin connector from the CHA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the CHA1 T-harness and match the wire functions.

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

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

If the vehicle DOES NOT have a factory amplifier:

Plug the female BLACK connector to the male BLACK connector of your CHA1 T-harness.

Plug the female WHITE connector to the male WHITE connector of your CHA1 T-harness.

If the vehicle DOES have a factory amplifier:

Plug the female BLACK connector to the male WHITE connector of your CHA1 T-harness.

Plug the female WHITE connector to the male BLACK connector of your CHA1 T-harness.

- Connect the CHA1 T-harness to the radio factory harness.
- Connect the supplied antenna adapter to the factory antenna connection.

3. Plug the harnesses into the aftermarket radio.

Connect the backup cam cable into the aftermarket radio.

Connect the antenna adapter to the aftermarket radio.

Plug the 4-pin Data cable to the data port (iDatalink I/F port) of the aftermarket radio.

Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

4. Connect all the harnesses to the Maestro RR module (see wiring diagram).

If using an Alpine radio and the vehicle is equipped with parking sensors, lane departure, or other safety systems but NOT factory amplified, the ACC-SP1 is required.

All other radio brands, ACC-SP1 is optional.

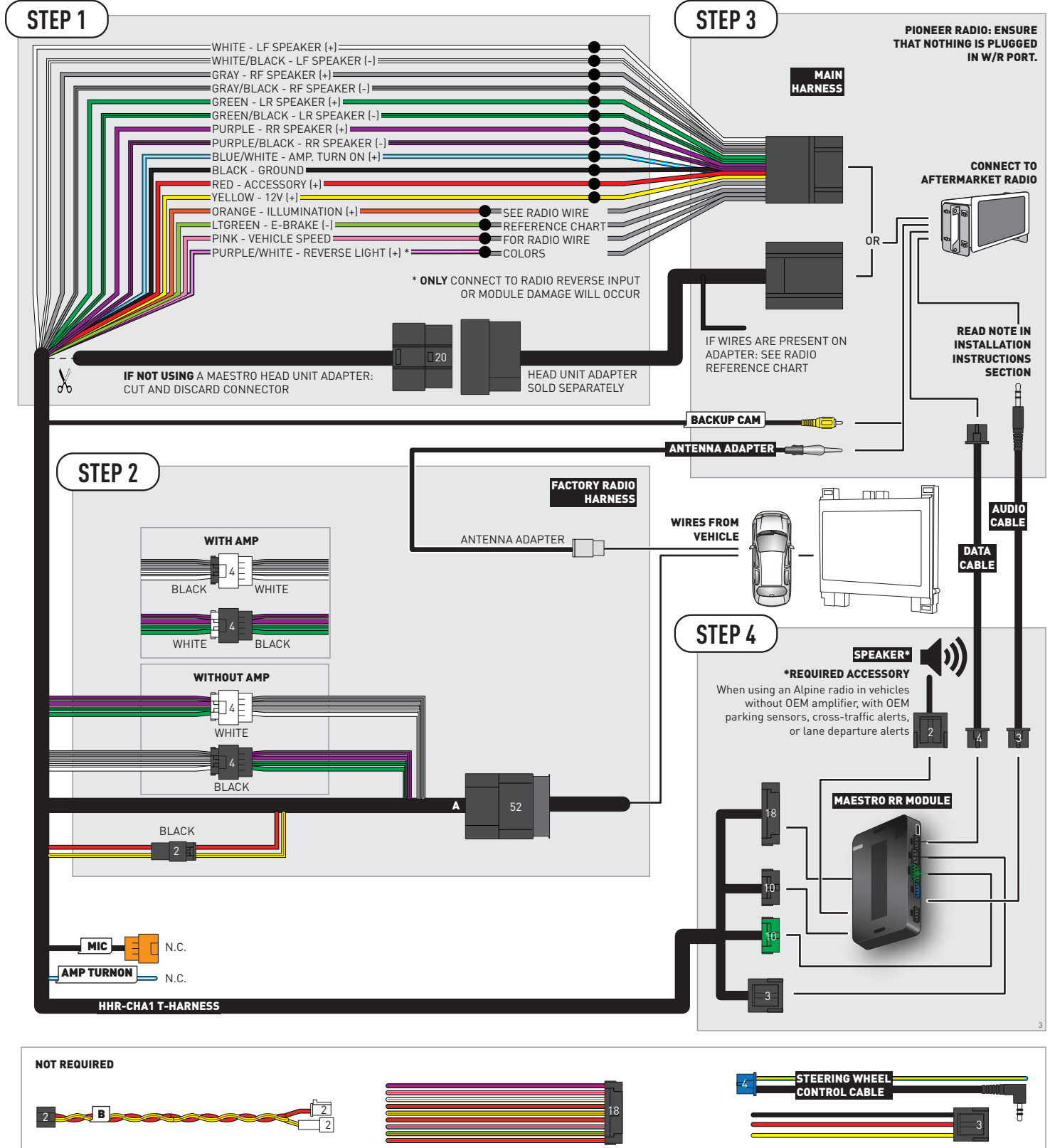
Without it, the radio will mute when park assist is active. With it, the chime will play through the speaker and the radio will not mute unless settings are changed in the radio. If factory amplified, the amplifier generates the chimes and ACC-SP1 is not required.

Press the CHA1 T harness, Maestro, and antenna adapter into the dash cavity and secure in place with cable ties.

Press the aftermarket radio into the dash cavity and secure it with the four 7mm screws removed earlier.

Reinstall the dash panel making sure all the clips snap into place.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CHA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If diagram shows CAN connections at CAN junction block, ensure a factory 2-pin white plug was disconnected, inserted into the female 2-pin of the CHA1 extension and the male 2-pin of the extension was plugged back into the junction block. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Make sure that the 4-pin black and white connectors in the harness are plugged in correctly as stated in step 2.
The radio stays ON or doesn't come ON at all. The light on the Maestro is not blinking.	Make sure the 2-pin connectors in the harness are connected as stated in step 2.
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

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Email: maestro.support@idatalink.com

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ADAPTER READY**

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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

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

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Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)

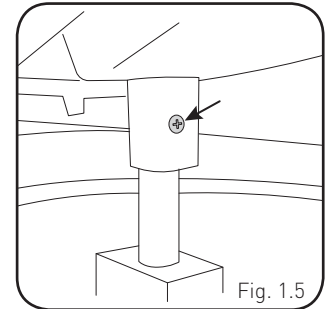
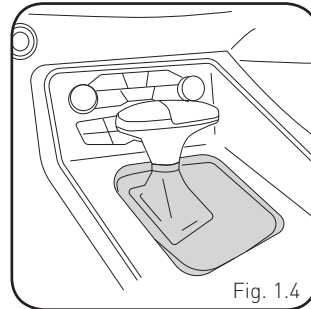
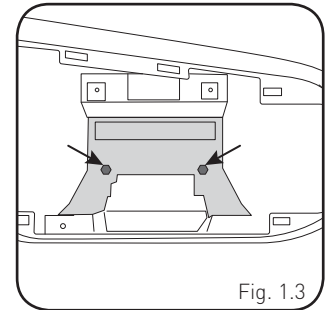
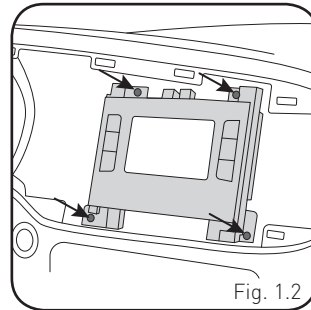
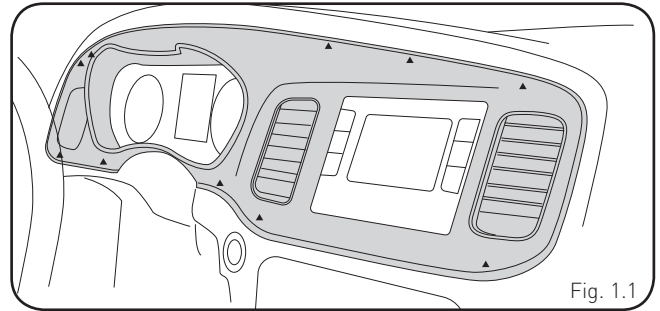


INSTALLATION INSTRUCTIONS P1/3

NOTE: A shallow-mount Maestro-enabled radio is required.

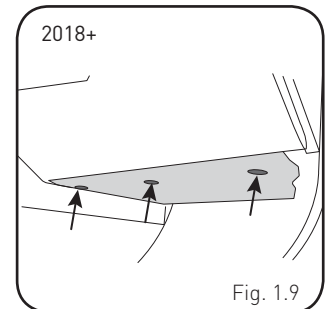
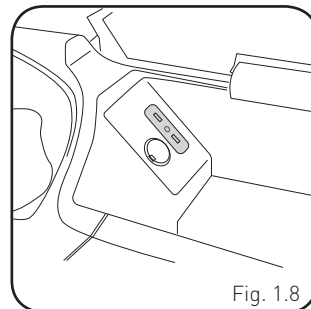
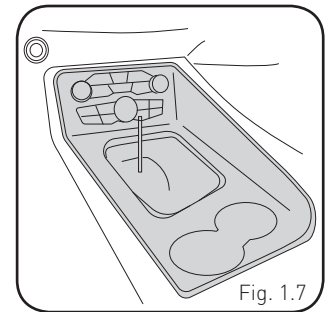
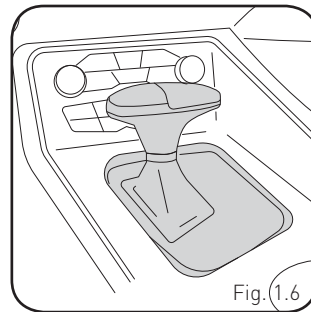
DASH DISASSEMBLY

1. Adjust the steering wheel down and outward to make clearance for removing the radio trim bezel.
2. Using a panel tool, pry outward on the dash trim and remove it. There are 10 clips securing it to the dash. (Fig. 1.1)
3. Remove the four (4) 7mm screws securing the factory radio into the dash cavity. Remove the radio and disconnect the wiring harnesses and antenna connections from the back.. (Fig. 1.2)
4. To make room for the aftermarket radio, a section of the sub dash must be removed. Remove the two (2) 7mm screws at the back part of the dash. Then cut out the highlighted section. (Fig. 1.3)



CENTER CONSOLE DISASSEMBLY

5. Using a panel tool, pry upward on the shifter trim to release the clips securing it. Disconnect the shifter wiring harness. (Fig. 1.4)
6. Remove the single Torx screw from the base of the shifter assembly. (Fig. 1.5)
7. Remove the shifter assembly. (Fig. 1.6)
8. Using a panel tool, pry upward on the rear of the center console trim. Then, firmly pull backwards to release the front clips. Disconnect the climate control wiring harness and remove the trim. (Fig. 1.7)
9. Open the center console compartment and remove the USB hub. Disconnect the wiring harnesses. (Fig. 1.8)



CAN JUNCTION

10. Remove the three clips securing the under dash panel below the glovebox. Pull the panel down to gain access to the CAN junction block. (Fig. 1.9)

INSTALLATION INSTRUCTIONS P2 / 3

INSTALL USB HUB

11. Route the USB hub cables through center console to the dash cavity. Snap the USB hub into place.

Reassemble the center console.

ASSEMBLE THE CHA1 DASH BEZEL

12. Mount the metal brackets to the aftermarket radio using the screws supplied with the radio. (Fig. 2.1)
13. Select the proper radio trim bezel provided with the CHA1.
 - If the vehicle was equipped with the 5" screen, use bezel marked "5"
 - If the vehicle was equipped with the 8" screen, use bezel marked "8"
14. Place the bezel onto the radio and secure it with the six Phillips screws provided with the CHA1. (Fig. 2.2, 2.3)

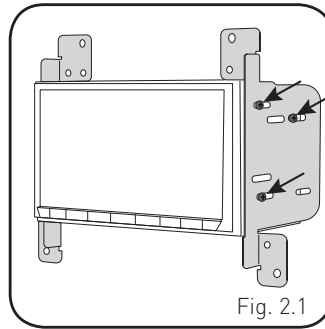


Fig. 2.1

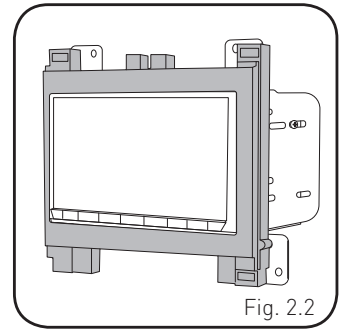


Fig. 2.2

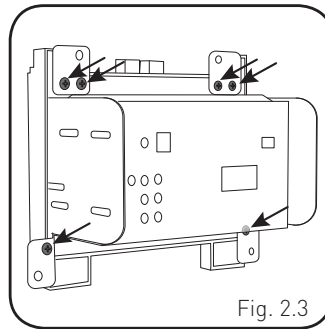


Fig. 2.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-CHA1 harness to adapter and skip to step 2.

Locate the aftermarket radio's main harness.

Cut and remove the black 20 pin connector from the CHA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the CHA1 T-harness and match the wire functions.

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

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

If the vehicle DOES NOT have a factory amplifier:

Plug the female BLACK connector to the male BLACK connector of your CHA1 T-harness.

Plug the female WHITE connector to the male WHITE connector of your CHA1 T-harness.

If the vehicle DOES have a factory amplifier:

Plug the female BLACK connector to the male WHITE connector of your CHA1 T-harness.

Plug the female WHITE connector to the male BLACK connector of your CHA1 T-harness.

- Connect the CHA1 T-harness to the radio factory harness.
- Connect the supplied antenna adapter to the factory antenna connection.

3. Route **B** harness to the CAN junction located under the glove box. Disconnect one of the 2-pin connectors and plug it into the female **B** harness plug. Connect the male 2-pin from **B** harness to the CAN junction block. Connect **B** harness to main T-harness.

Note: this connection is only required for 2018+ models.

4. Plug the harnesses into the aftermarket radio.

Connect the backup cam cable into the aftermarket radio.

Connect the antenna adapter to the aftermarket radio.

Plug the 4-pin Data cable to the data port (iDatalink I/F port) of the aftermarket radio.

Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

5. Connect all the harnesses to the Maestro RR module (see wiring diagram).

If using an Alpine radio and the vehicle is equipped with parking sensors, lane departure, or other safety systems but NOT factory amplified, the ACC-SP1 is required.

All other radio brands, ACC-SP1 is optional.

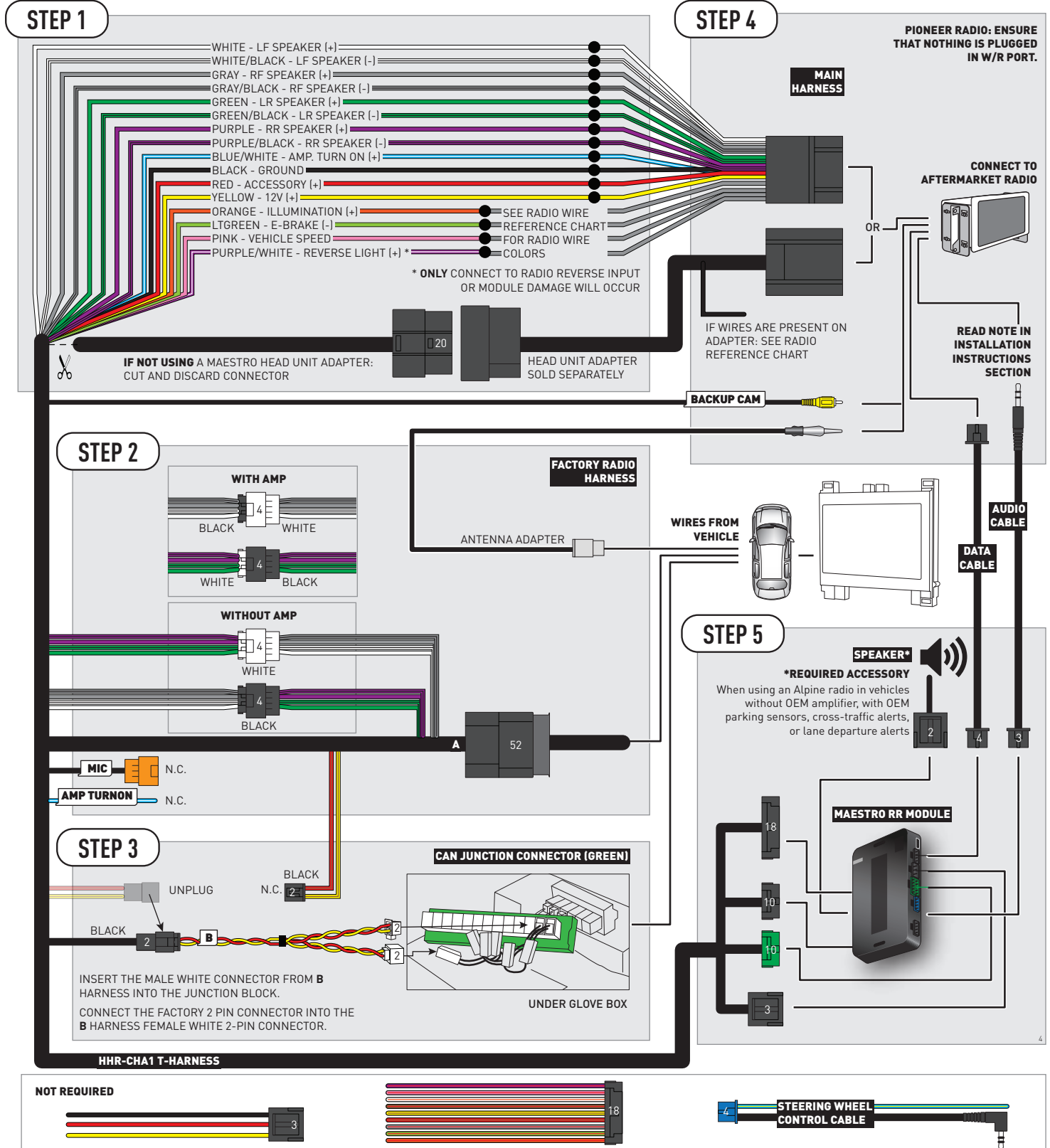
Without it, the radio will mute when park assist is active. With it, the chime will play through the speaker and the radio will not mute unless settings are changed in the radio. If factory amplified, the amplifier generates the chimes and ACC-SP1 is not required.

Press the CHA1 T harness, Maestro, and antenna adapter into the dash cavity and secure in place with cable ties.

Press the aftermarket radio into the dash cavity and secure it with the four 7mm screws removed earlier.

Reinstall the dash panel making sure all the clips snap into place.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CHA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If diagram shows CAN connections at CAN junction block, ensure a factory 2-pin white plug was disconnected, inserted into the female 2-pin of the CHA1 extension and the male 2-pin of the extension was plugged back into the junction block. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Make sure that the 4-pin black and white connectors in the harness are plugged in correctly as stated in step 2.
The radio stays ON or doesn't come ON at all. The light on the Maestro is not blinking.	Make sure the 2-pin connectors in the harness are connected as stated in step 2.
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

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

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iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro CHA1 Dash Kit

PROGRAMMED FIRMWARE: CH3-RR-DS

WELCOME

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

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

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

NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

ADDITIONAL INFORMATION AND ACCESSORIES

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

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/3

NOTE: A shallow-mount Maestro-enabled radio is required.

DASH DISASSEMBLY

1. Adjust the steering wheel down and outward to make clearance for removing the radio trim bezel. (Fig. 1.1)
2. Using a panel tool, pry outward on the dash trim and remove it. There are 10 clips securing it to the dash. (Fig. 1.1)
3. Remove the four (4) 7mm screws securing the factory radio into the dash cavity. Remove the radio and disconnect the wiring harnesses and antenna connections from the back.. (Fig. 1.2)
4. To make room for the aftermarket radio, a section of the sub dash must be removed. Remove the two (2) 7mm screws at the back part of the dash. Then cut out the highlighted section. (Fig. 1.3)

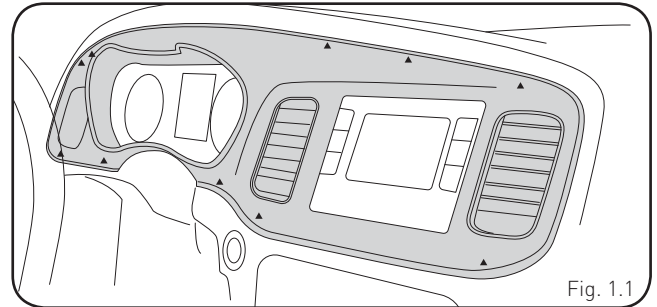


Fig. 1.1

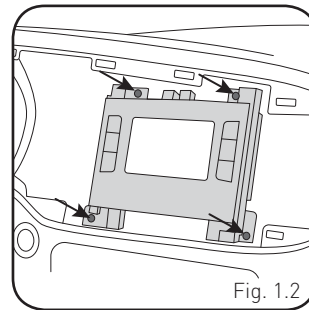


Fig. 1.2

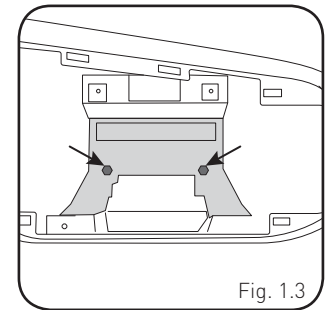


Fig. 1.3

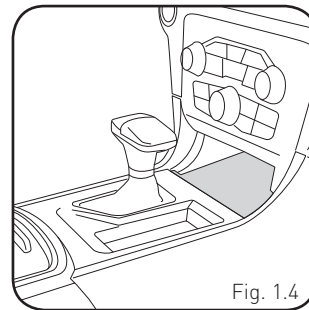


Fig. 1.4

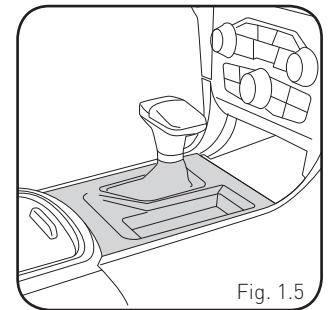


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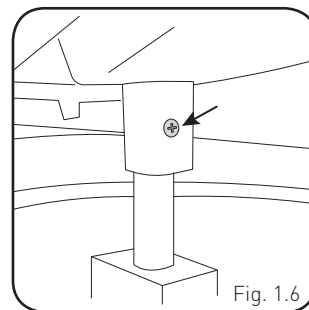


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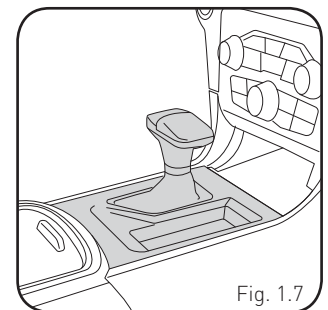


Fig. 1.7

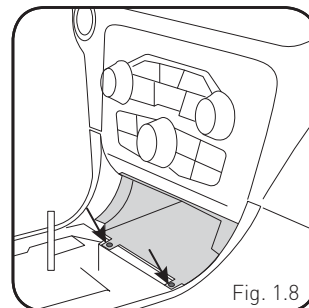


Fig. 1.8

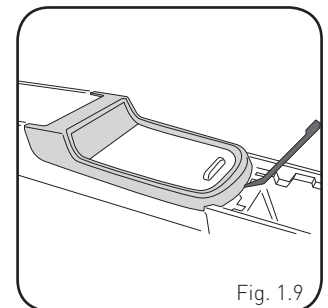


Fig. 1.9

CENTER CONSOLE DISASSEMBLY

5. Remove the rubber pad from the center console pocket. (Fig. 1.4)
6. Using a panel tool, pry upward on the shifter trim to release the clips securing it. Disconnect the shifter wiring harness. (Fig. 1.5)
7. Remove the single Torx screw from the base of the shifter assembly. (Fig. 1.6)
8. Remove the shifter assembly. (Fig. 1.7)
9. Remove the two (2) 7mm screws securing the front storage compartment. Disconnect the power port wiring harness from the back. (Fig. 1.8)
10. Using a panel tool, pry upward on the cup holder trim. (Fig. 1.9)

INSTALLATION INSTRUCTIONS P2/3

11. Remove the six (6) 7mm screws securing the cupholder assembly. Remove the cupholder cover. (Fig. 1.10)
12. Remove the cupholders. If the vehicle is equipped with illumination, disconnect the wiring harness. (Fig. 1.11)
13. To retain the factory USB location, the media hub needs to be replaced with the adapter included with the CHA1 kit. (Fig. 1.12) To remove the media hub, follow these steps:
 - Gently pull outward on the panel located on the rear of center console. Disconnect any wiring harnesses and set aside. (Fig. 1.13)
 - Remove 2 screws securing rear air vent duct and remove the vent. (Fig. 1.14)
 - Disconnect the USB and wiring harness. Press the locking tabs (front and back) inward and push up to remove the USB hub. (Fig. 1.15)
14. Using a panel tool, pry outward on the climate controls to release the four clips securing it. Then, disconnect the wiring harness from the back. (Fig. 1.16)

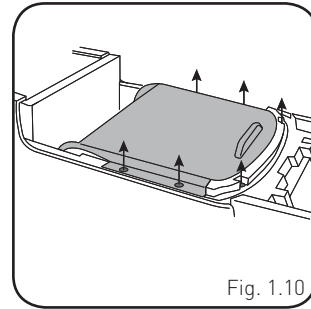


Fig. 1.10

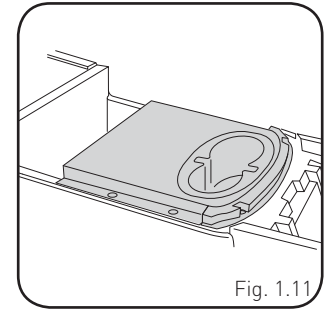


Fig. 1.11

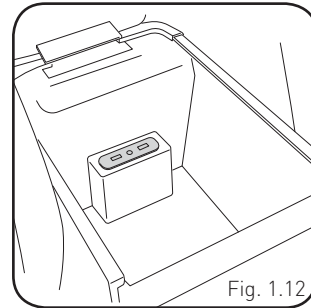


Fig. 1.12

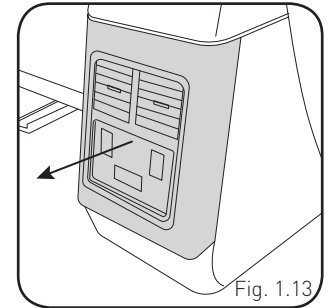


Fig. 1.13

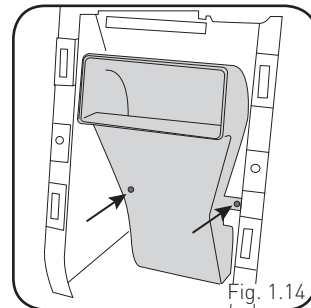


Fig. 1.14

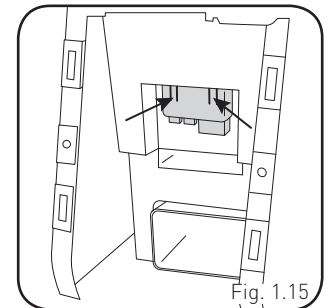


Fig. 1.15

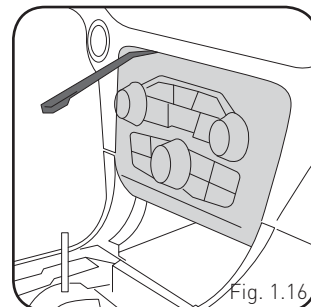


Fig. 1.16

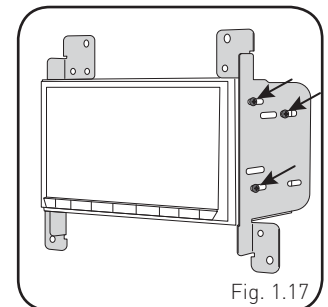


Fig. 1.17

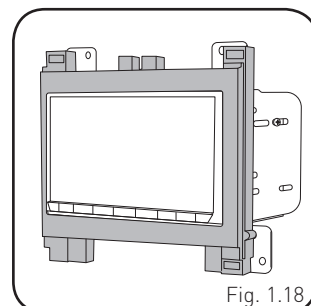


Fig. 1.18

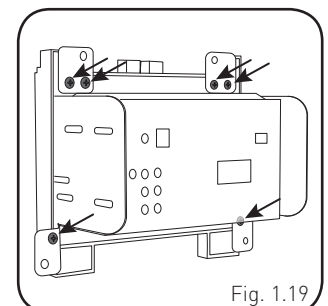


Fig. 1.19

INSTALL USB HUB

15. Route the USB hub cables through center console to the dash cavity. Snap the USB hub into place.

Reassemble the center console.

ASSEMBLE THE CHA1 DASH BEZEL

16. Mount the metal brackets to the aftermarket radio using the screws supplied with the radio. (Fig. 1.17)
17. Select the proper radio trim bezel provided with the CHA1. If the vehicle was equipped with the 5" screen, use bezel marked "5"
If the vehicle was equipped with the 8" screen, use bezel marked "8"
18. Place the bezel onto the radio and secure it with the six Phillips screws provided with the CHA1. (Fig. 1.18, 1.19)

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-CHA1 harness to adapter and skip to step 2.

Locate the aftermarket radio's main harness.

Cut and remove the black 20 pin connector from the CHA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the CHA1 T-harness and match the wire functions.

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

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

If the vehicle DOES NOT have a factory amplifier:

Plug the female BLACK connector to the male BLACK connector of your CHA1 T-harness.

Plug the female WHITE connector to the male WHITE connector of your CHA1 T-harness.

If the vehicle DOES have a factory amplifier:

Plug the female BLACK connector to the male WHITE connector of your CHA1 T-harness.

Plug the female WHITE connector to the male BLACK connector of your CHA1 T-harness.

- Connect the CHA1 T-harness to the radio factory harness.
- Connect the supplied antenna adapter to the factory antenna connection.

3. Plug the harnesses into the aftermarket radio.

Connect the backup cam cable into the aftermarket radio.

Connect the antenna adapter to the aftermarket radio.

Plug the 4-pin Data cable to the data port (iDatalink I/F port) of the aftermarket radio.

Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

4. Connect all the harnesses to the Maestro RR module (see wiring diagram).

If using an Alpine radio and the vehicle is equipped with parking sensors, lane departure, or other safety systems but NOT factory amplified, the ACC-SP1 is required.

All other radio brands, ACC-SP1 is optional.

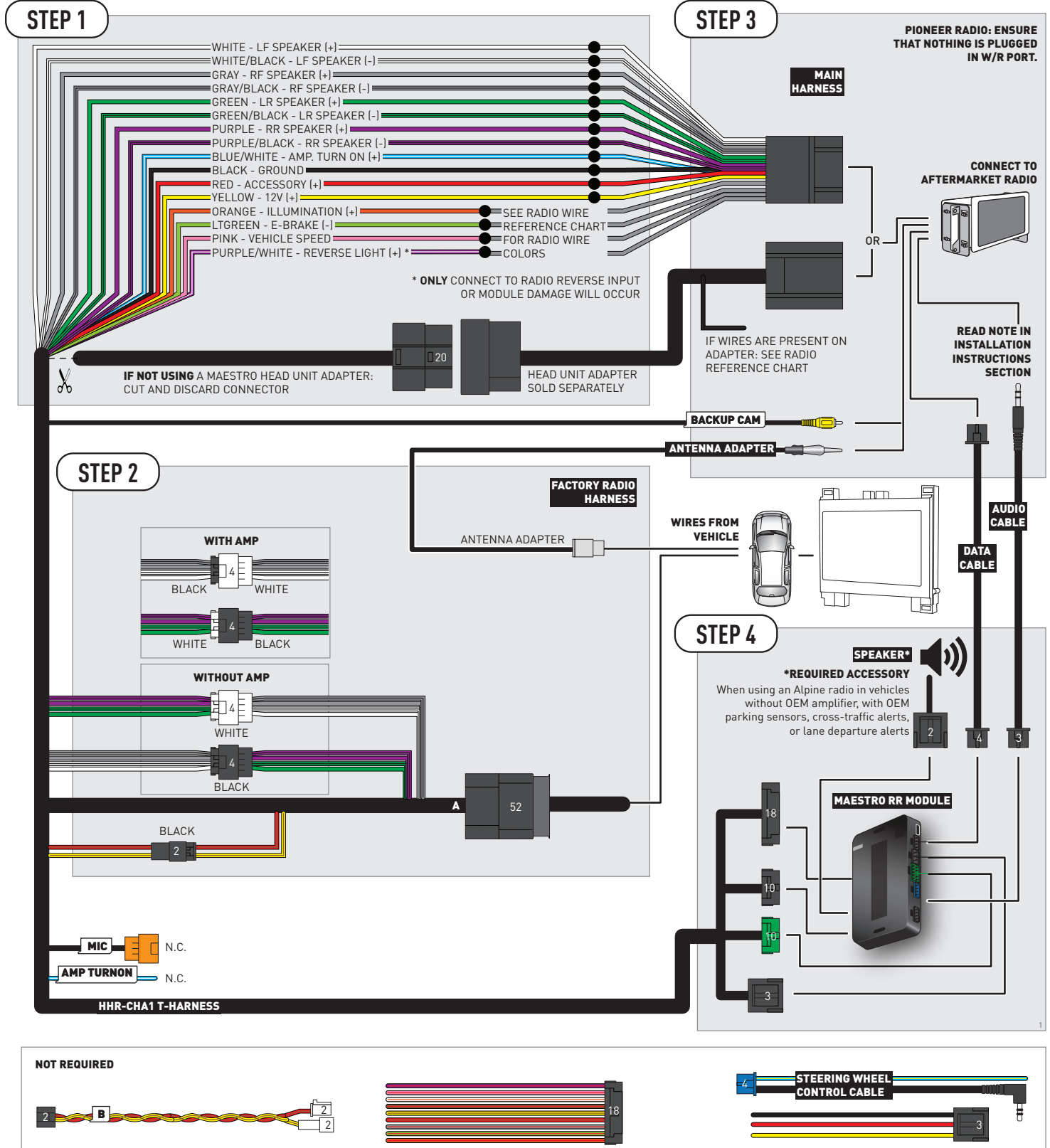
Without it, the radio will mute when park assist is active. With it, the chime will play through the speaker and the radio will not mute unless settings are changed in the radio. If factory amplified, the amplifier generates the chimes and ACC-SP1 is not required.

Press the CHA1 T harness, Maestro, and antenna adapter into the dash cavity and secure in place with cable ties.

Press the aftermarket radio into the dash cavity and secure it with the four 7mm screws removed earlier.

Reinstall the dash panel making sure all the clips snap into place.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CHA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If diagram shows CAN connections at CAN junction block, ensure a factory 2-pin white plug was disconnected, inserted into the female 2-pin of the CHA1 extension and the male 2-pin of the extension was plugged back into the junction block. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Make sure that the 4-pin black and white connectors in the harness are plugged in correctly as stated in step 2.
The radio stays ON or doesn't come ON at all. The light on the Maestro is not blinking.	Make sure the 2-pin connectors in the harness are connected as stated in step 2.
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

Email: maestro.support@idatalink.com

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

RETAINS STEERING WHEEL CONTROLS, VEHICLE SETTINGS, AND MORE!



HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro CHA1 Dash Kit

PROGRAMMED FIRMWARE: CH3-RR-DS

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Radar Detectors



[Radar Installation Guides](#)

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Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



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[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



INSTALLATION INSTRUCTIONS P1/3

NOTE: A shallow-mount Maestro-enabled radio is required.

DASH DISASSEMBLY

1. Adjust the steering wheel down and outward to make clearance for removing the radio trim bezel. (Fig. 1.1)
2. Using a panel tool, pry outward on the dash trim and remove it. There are 10 clips securing it to the dash. (Fig. 1.1)
3. Remove the four (4) 7mm screws securing the factory radio into the dash cavity. Remove the radio and disconnect the wiring harnesses and antenna connections from the back.. (Fig. 1.2)
4. To make room for the aftermarket radio, a section of the sub dash must be removed. Remove the two (2) 7mm screws at the back part of the dash. Then cut out the highlighted section. (Fig. 1.3)

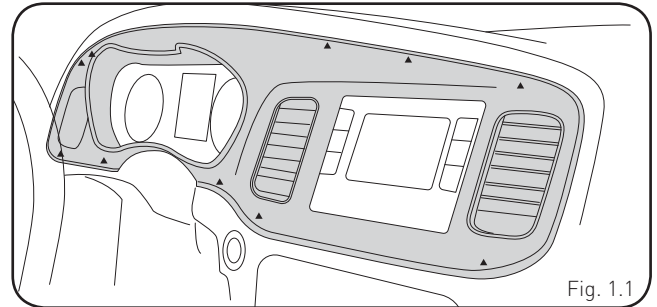


Fig. 1.1

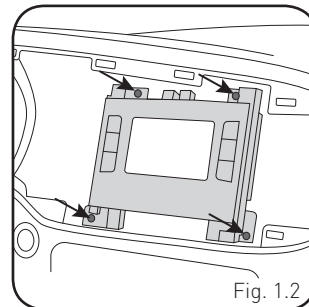


Fig. 1.2

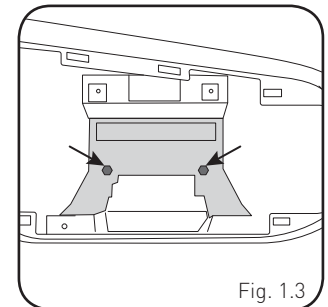


Fig. 1.3

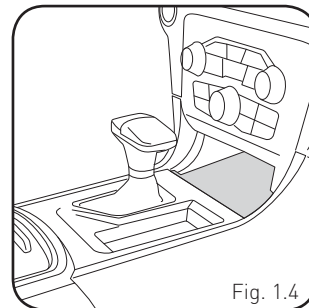


Fig. 1.4

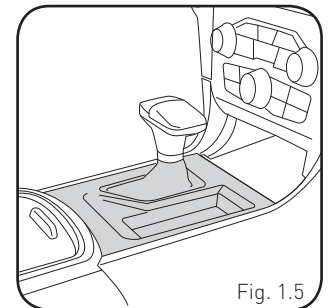


Fig. 1.5

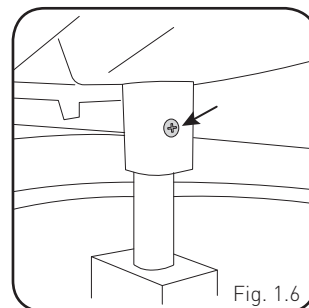


Fig. 1.6

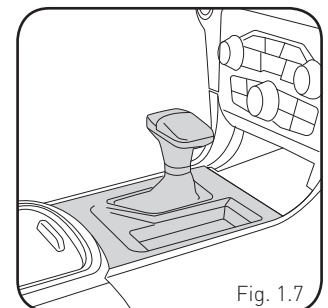


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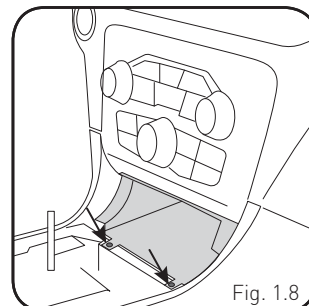


Fig. 1.8

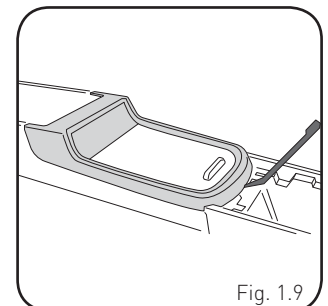


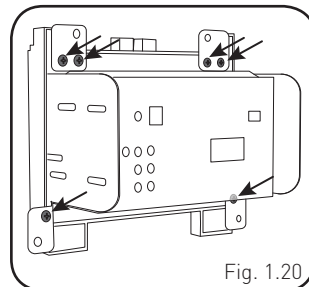
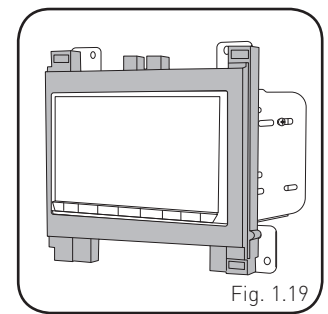
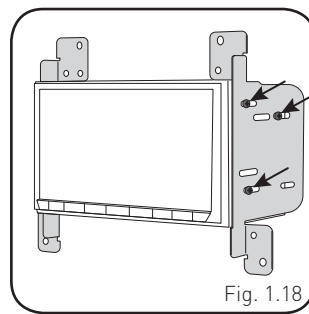
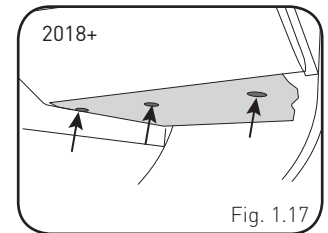
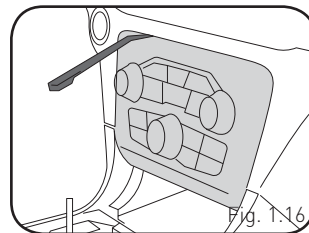
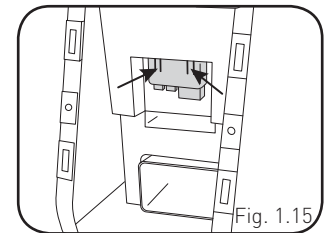
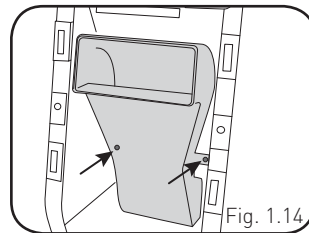
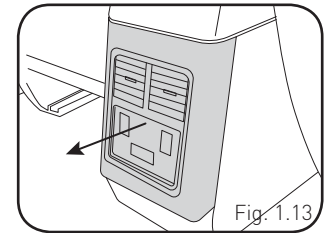
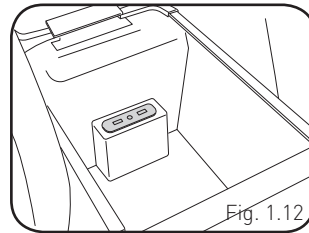
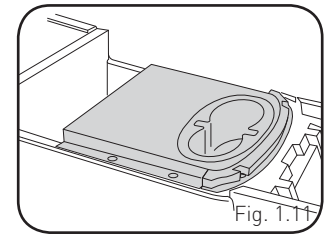
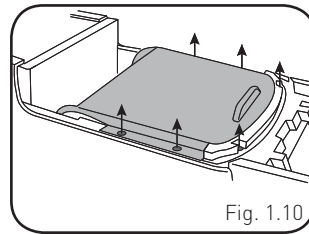
Fig. 1.9

CENTER CONSOLE DISASSEMBLY

5. Remove the rubber pad from the center console pocket. (Fig. 1.4)
6. Using a panel tool, pry upward on the shifter trim to release the clips securing it. Disconnect the shifter wiring harness. (Fig. 1.5)
7. Remove the single Torx screw from the base of the shifter assembly. (Fig. 1.6)
8. Remove the shifter assembly. (Fig. 1.7)
9. Remove the two (2) 7mm screws securing the front storage compartment. Disconnect the power port wiring harness from the back. (Fig. 1.8)
10. Using a panel tool, pry upward on the cup holder trim. (Fig. 1.9)

INSTALLATION INSTRUCTIONS P2/3

11. Remove the six (6) 7mm screws securing the cupholder assembly. Remove the cupholder cover. (Fig. 1.10)
12. Remove the cupholders. If the vehicle is equipped with illumination, disconnect the wiring harness. (Fig. 1.11)
13. To retain the factory USB location, the media hub needs to be replaced with the adapter included with the CHA1 kit. (Fig. 1.12) To remove the media hub, follow these steps:
 - Gently pull outward on the panel located on the rear of center console. Disconnect any wiring harnesses and set aside. (Fig. 1.13)
 - Remove 2 screws securing rear air vent duct and remove the vent. (Fig. 1.14)
 - Disconnect the USB and wiring harness. Press the locking tabs (front and back) inward and push up to remove the USB hub. (Fig. 1.15)
14. Using a panel tool, pry outward on the climate controls to release the four clips securing it. Then, disconnect the wiring harness from the back. (Fig. 1.16)



CAN JUNCTION

15. Remove the three clips securing the under dash panel below the glovebox. Pull the panel down to gain access to the CAN junction block. (Fig. 1.17)

INSTALL USB HUB

16. Route the USB hub cables through center console to the dash cavity. Snap the USB hub into place.

Reassemble the center console.

ASSEMBLE THE CHA1 DASH BEZEL

17. Mount the metal brackets to the aftermarket radio using the screws supplied with the radio. (Fig. 1.18)
18. Select the proper radio trim bezel provided with the CHA1. If the vehicle was equipped with the 5" screen, use bezel marked "5"
If the vehicle was equipped with the 8" screen, use bezel marked "8"
19. Place the bezel onto the radio and secure it with the six Phillips screws provided with the CHA1. (Fig. 1.19, 1.20)

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-CHA1 harness to adapter and skip to step 2.

Locate the aftermarket radio's main harness.

Cut and remove the black 20 pin connector from the CHA1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the CHA1 T-harness and match the wire functions.

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

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

If the vehicle DOES NOT have a factory amplifier:

Plug the female BLACK connector to the male BLACK connector of your CHA1 T-harness.

Plug the female WHITE connector to the male WHITE connector of your CHA1 T-harness.

If the vehicle DOES have a factory amplifier:

Plug the female BLACK connector to the male WHITE connector of your CHA1 T-harness.

Plug the female WHITE connector to the male BLACK connector of your CHA1 T-harness.

- Connect the CHA1 T-harness to the radio factory harness.
- Connect the supplied antenna adapter to the factory antenna connection.

3. Route **B** harness to the CAN junction located under the glove box. Disconnect one of the 2-pin connectors and plug it into the female **B** harness plug. Connect the male 2-pin from **B** harness to the CAN junction block. Connect **B** harness to main T-harness.

Note: this connection is only required for 2018+ models.

4. Plug the harnesses into the aftermarket radio.

Connect the backup cam cable into the aftermarket radio.

Connect the antenna adapter to the aftermarket radio.

Plug the 4-pin Data cable to the data port (iDatalink I/F port) of the aftermarket radio.

Insert the Audio cable into the iDatalink 3.5 mm audio jack of the aftermarket radio (if there is no iDatalink audio input, connect to AUX).

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

5. Connect all the harnesses to the Maestro RR module (see wiring diagram).

If using an Alpine radio and the vehicle is equipped with parking sensors, lane departure, or other safety systems but NOT factory amplified, the ACC-SP1 is required.

All other radio brands, ACC-SP1 is optional.

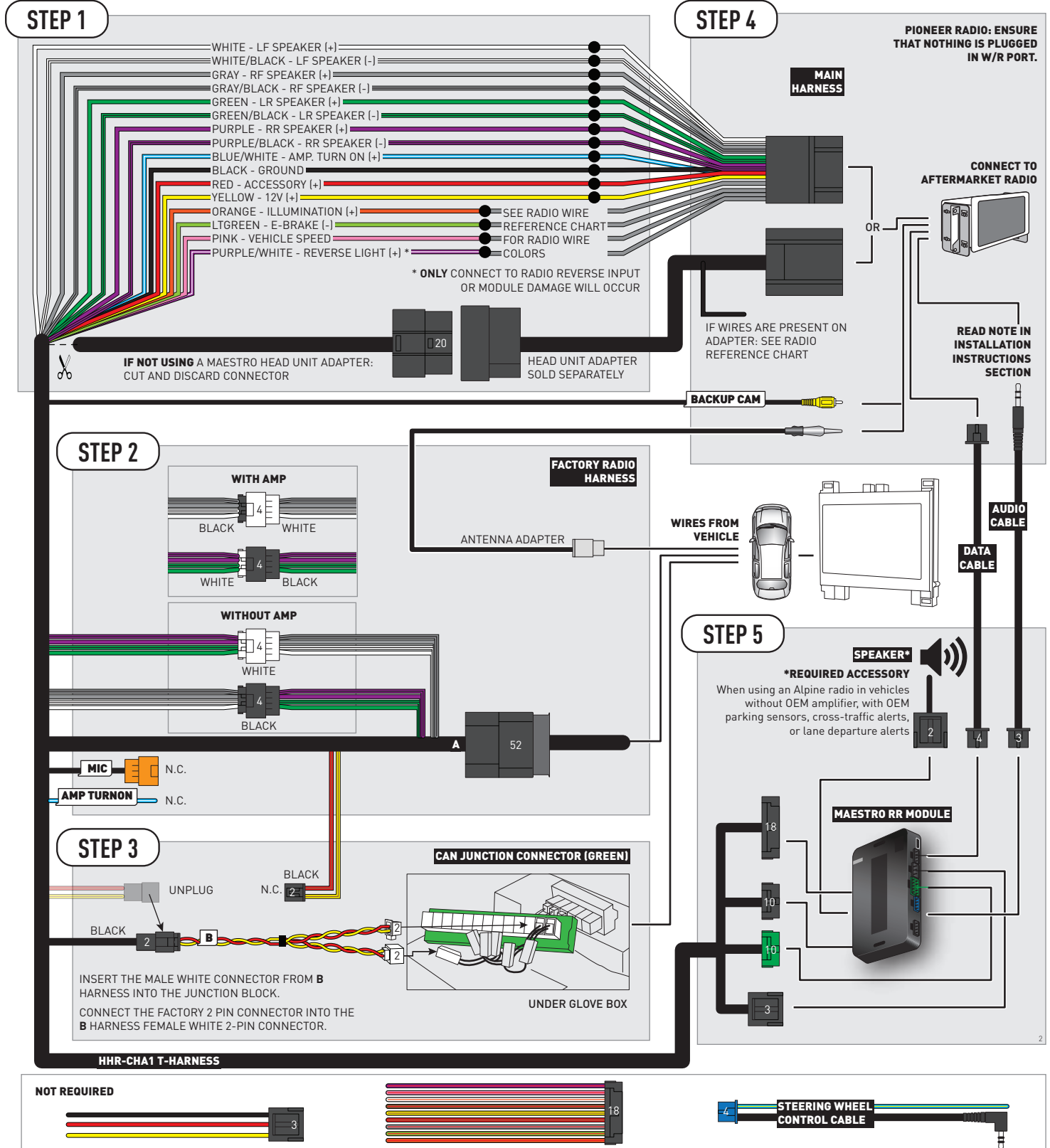
Without it, the radio will mute when park assist is active. With it, the chime will play through the speaker and the radio will not mute unless settings are changed in the radio. If factory amplified, the amplifier generates the chimes and ACC-SP1 is not required.

Press the CHA1 T harness, Maestro, and antenna adapter into the dash cavity and secure in place with cable ties.

Press the aftermarket radio into the dash cavity and secure it with the four 7mm screws removed earlier.

Reinstall the dash panel making sure all the clips snap into place.

WIRING DIAGRAM



RADIO WIRE REFERENCE CHART

CHA1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



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

TROUBLESHOOTING TABLE

PROBLEM	SOLUTION
Gauges do not work, radio shows OBD2 Error 1 or Error 2.	If diagram shows CAN connections at CAN junction block, ensure a factory 2-pin white plug was disconnected, inserted into the female 2-pin of the CHA1 extension and the male 2-pin of the extension was plugged back into the junction block. Reset the RR.
When making a phone call you cannot hear the callers but they can hear you.	Make sure that the 4-pin black and white connectors in the harness are plugged in correctly as stated in step 2.
The radio stays ON or doesn't come ON at all. The light on the Maestro is not blinking.	Make sure the 2-pin connectors in the harness are connected as stated in step 2.
The light on the Maestro is flashing RED ONCE .	There is no firmware on the module. Flash the RR module using Weblink Desktop and log in. Do NOT use DEMO MODE.
The light on the Maestro is blinking RED TWICE and the radio IS turning on.	Ensure the 4-pin data cable is connected between the radio and the RR, and that it is plugged into the black port on the Maestro RR. The red and blue ports on the RR should be empty. Make sure the correct radio model and serial number were entered during the flash. Verify the radio's serial number entered during the flash matches what is listed on the radio screen. This can be found in the settings of the radio, listed as Device Id, Device Number, or Serial Number.
The light on the Maestro is blinking RED TWICE but the radio is NOT turning on.	If installing a modular radio and it is not turning on, ensure the screen is secured and any trim pieces on the radio have been installed fully. Not installing these fully will prevent radio from powering up and show a 2x red error as well. Test red and yellow wires for DC voltage at radio using a multimeter. Contact support if no voltage on red or yellow.

MAESTRO RR RESET PROCEDURE:

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

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

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

TECHNICAL ASSISTANCE

Phone: 1-866-427-2999

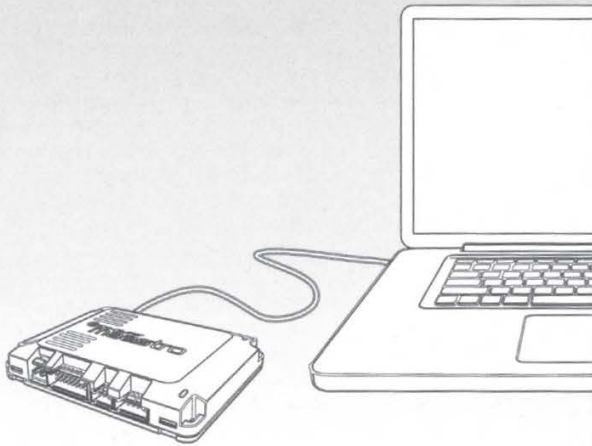
Email: maestro.support@idatalink.com

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

iDATALINK **maestro**

SW | Ar | Ar | SW^{HD1}

QUICK START GUIDE



FOLLOW THE WEB PROGRAMMING
STEPS INSIDE PRIOR TO INSTALLATION.

ADS
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WEB PROGRAMMING

1- INSTALL THE WEBLINK DESKTOP APPLICATION

Go to www.idatalinkmaestro.com/plugin, select your software version (Mac or PC) and follow the installation steps. Be sure to review the system requirements before installing.

2- REGISTER A WEBLINK ACCOUNT

Once installed, complete the Weblink registration process and log into Weblink.

3- CONNECT THE MODULE TO YOUR COMPUTER

Use the included USB cable to connect your iDatalink Maestro module to your computer.

4- WEBLINK PROGRAMMING

Follow the programming steps until your module is flashed, then download your install guide and owner's manual if applicable.

5- COMPLETE VEHICLE-SPECIFIC INSTALLATION

Follow the steps in your install guide and complete the installation. ADS recommends having your iDatalink Maestro device installed by a certified technician. **Additional accessories may be required and sold separately.**

ADS
AUTOMOTIVE DATA SOLUTIONS

TECHNICAL SUPPORT
877.212.6169
idatalinkmaestro.com

LIMITED 1-YEAR WARRANTY

Automotive Data Solutions Inc. ("ADS") warrants to the original purchaser of the product that the following components product shall be free of defects in material and workmanship under normal use and circumstances for the period of one (1) year from the date of original installation.

"Authorized Dealer" is defined by ADS as a company who qualifies to purchase products directly from ADS, or one of its approved distributors. Thus, products not sold nor installed by an Authorized Dealer are not covered by this warranty. This includes, but is not limited to, ADS products sold on Amazon.com, eBay.com, Walmart.com and Newegg.com. To find an authorized retailer near you, visit <http://maestro.idatalink.com/find-product>.

In the event of any product malfunction during the Warranty period, the original purchaser must return to the Authorized Dealer where it was originally purchased with the original proof of purchase. If a malfunction is detected, the Authorized Dealer will elect to repair or replace the product at its discretion. Labor costs may be applicable and are at the discretion of the Authorized Dealer.

ADS is not responsible for any damages whatsoever, including but not limited to any consequential damages, incidental damages, damages for loss of time, loss of earnings, commercial loss, loss of economic opportunity and the like that may or may not have resulted from the installation or operation of an iDatalink Maestro product.

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