



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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/3

DASH DISASSEMBLY

1. Using a panel tool, carefully pry outward on the trim panel above glove box and remove. (Fig. 1.1)
2. Carefully remove trim from around radio with panel tool. (Fig. 1.2)
3. Insert the four (4) supplied radio keys into the slots at the top and bottom of the factory radio with the tapered sides facing inward, pull outward to remove the radio from the dash. Disconnect all harness and remove. (Fig. 1.3)
4. Open glove box and, using two (2) supplied keys, release and remove cd player. Disconnect main wire harness and all antenna connections. (Fig. 1.4)
5. To make room for the aftermarket radio, you may need to trim some of the subdash to make clearance for radio and brackets.

USB HOUSING

6. Remove one (1) T20 Torx screw from the center console side panel and release the clips to remove. (Fig. 1.5)
7. Using a pick tool, release the clips at the top and bottom to release the USB, remove USB and disconnect the harness. (Fig. 1.6)
8. Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

9. Using a small panel tool, remove the trim panel located at the base of the shifter. (Fig. 1.7)

Pull upward on the shift boot. Reach under start/stop button assembly on driver side and pull upward to release it from console. (Fig. 1.8)

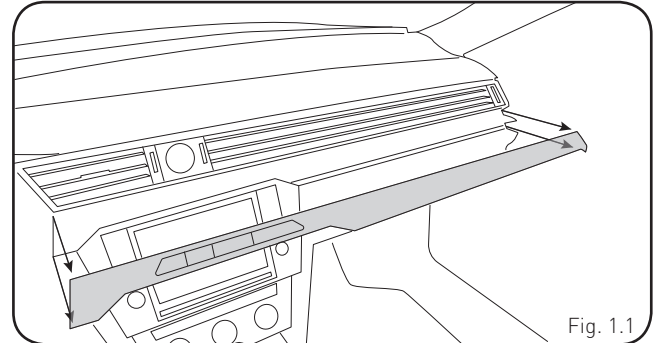


Fig. 1.1

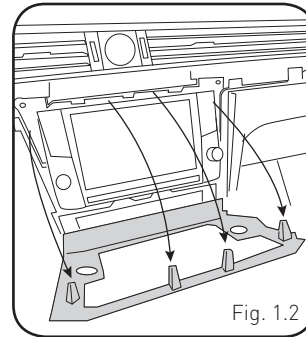


Fig. 1.2

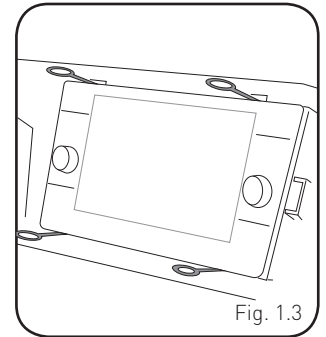


Fig. 1.3

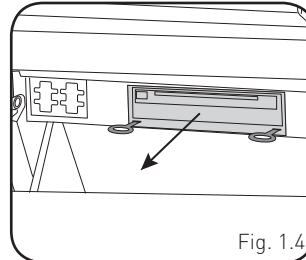


Fig. 1.4

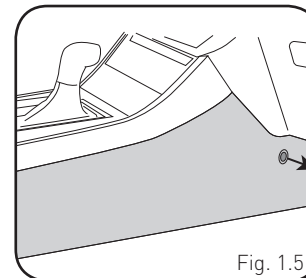


Fig. 1.5

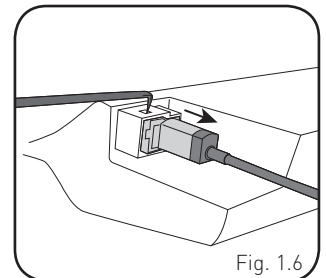


Fig. 1.6

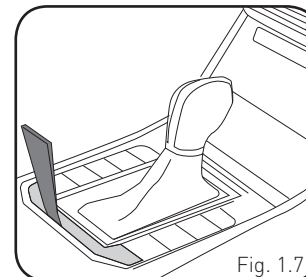


Fig. 1.7

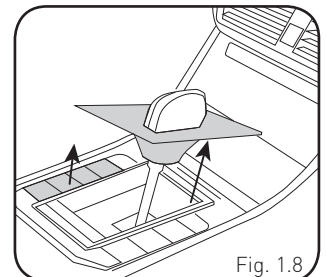


Fig. 1.8

INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

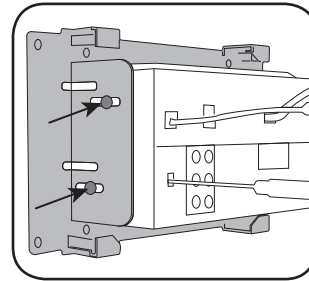


Fig. 2.1

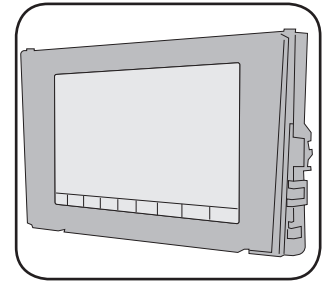


Fig. 2.2

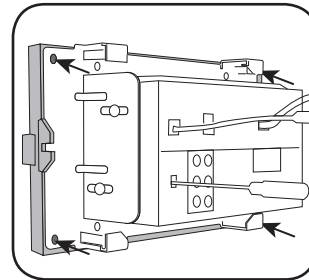


Fig. 2.3

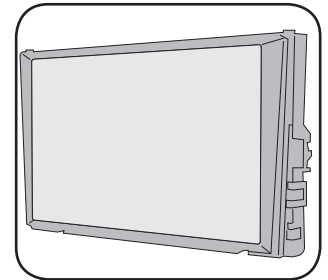


Fig. 3.1

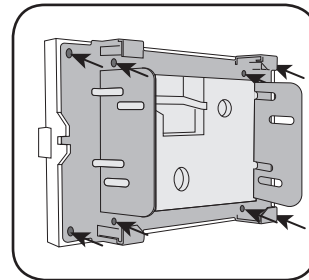


Fig. 3.2

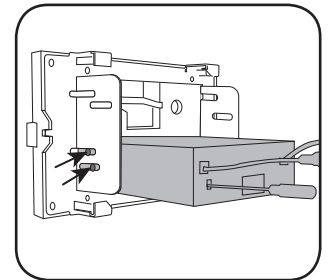


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Open Glovebox and connect the VW1 Harness to the main radio wiring harness and route to radio cavity.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BLACK/GRAY wire at pin 7. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.

5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.

6. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

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

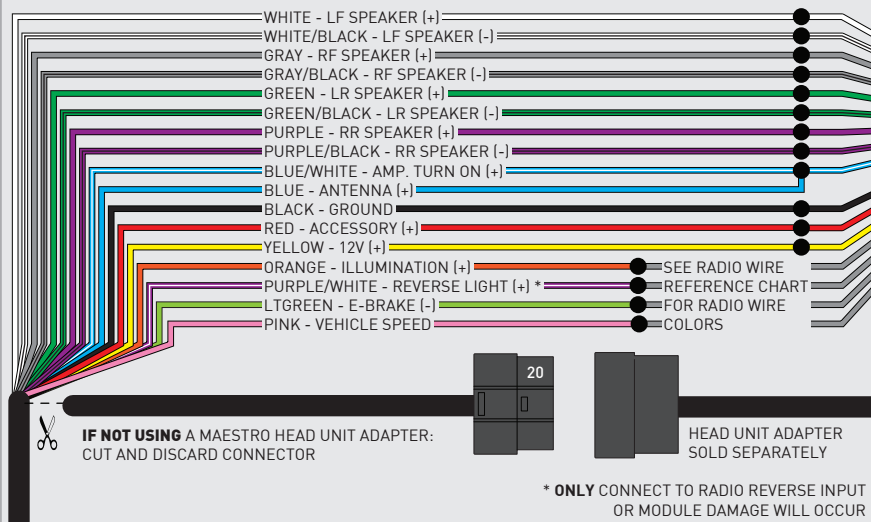
7. Snap VW1 USB adapter into USB housing and reinstall into factory location.

8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

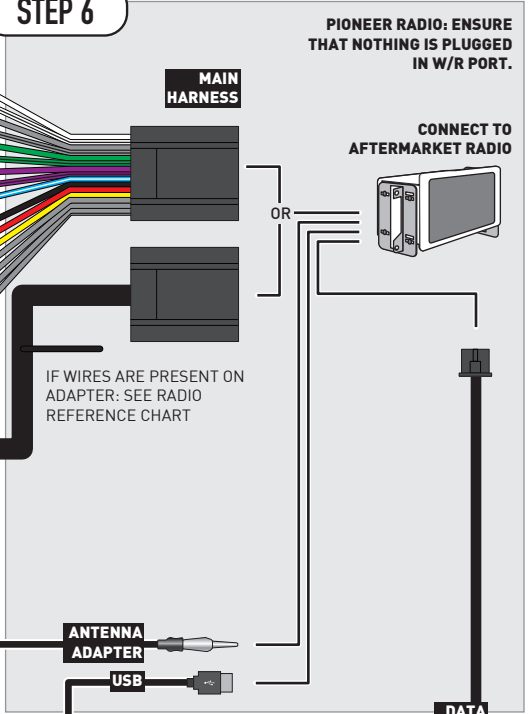
9. Install black insert panel provided with VW1 into opening left by the CD player.

WIRING DIAGRAM

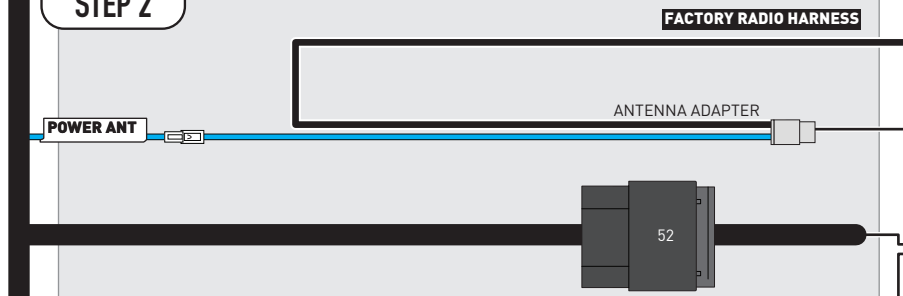
STEP 1



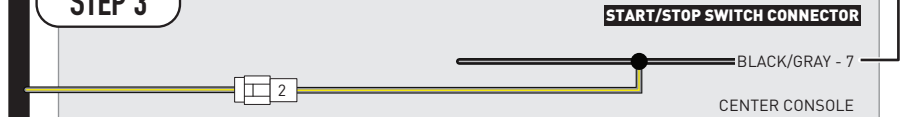
STEP 6



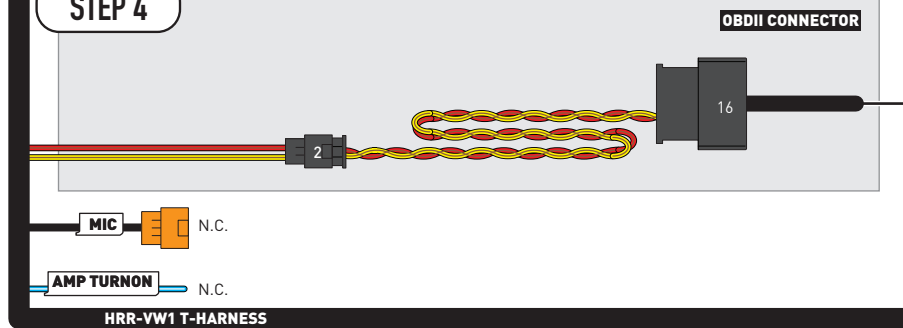
STEP 2



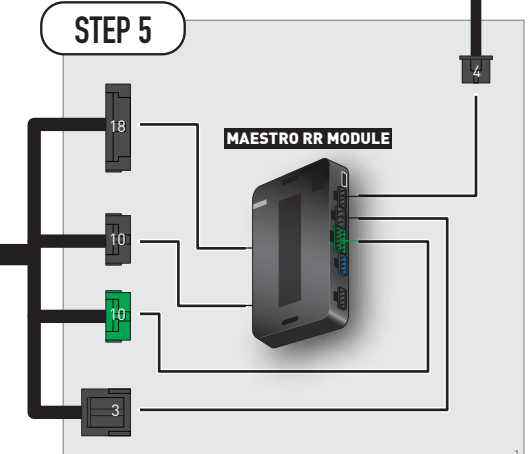
STEP 3



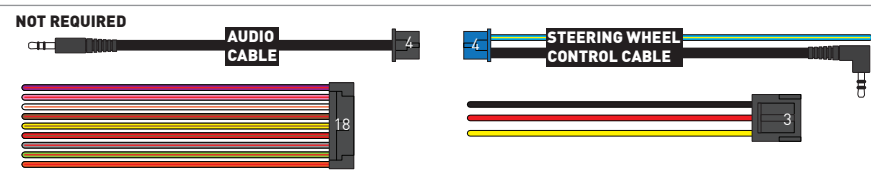
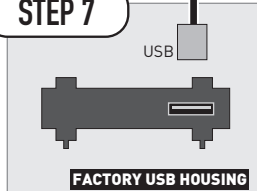
STEP 4



STEP 5



STEP 7



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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.

2021-2023

VOLKSWAGEN ATLAS CROSS SPORT
WITHOUT AMPLIFIER

RETAINS STEERING WHEEL CONTROLS, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

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iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

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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

SAT1, SAT2
(Antenna adapter)

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](#)



NEED HELP?

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INSTALLATION INSTRUCTIONS P1/3

DASH DISASSEMBLY

- Using a panel tool, carefully pry outward around the radio trim panel to release the clips securing it in place. (Fig. 1.1)
- Remove the factory radio using the four (4) supplied radio removal tools. Slide them into the top and bottom locations with the tapered side facing inward until they click, then pull them outward to release the clips and remove the radio from the dash. Disconnect all harness. (Fig. 1.2)
- [8 inch radio]** Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. Disconnect main wire harness and all antenna connections. (Fig. 1.3)
- To make room for the aftermarket radio you must relocate the telematics module. Remove the two (2) T25 Torx screws securing the telematics module bracket. Remove from dash. (Fig. 1.4)
Release the 2 clips holding the module to the bracket, and find a secure location in the dash cavity to place the telematics module. (Fig. 1.5)
- To make room for the aftermarket radio, cut out small section of the upper dash cavity (highlighted). (Fig. 1.6)

USB HOUSING

- Remove single (1) T25 Torx screw located on driver side center console trim. Slide the trim down to release clips. (Fig. 1.7)
- Using a long pick tool press down on the four (4) clips securing the USB housing in place (two on top and two on bottom). Remove and disconnect USB plug. (Fig. 1.8)
- Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. (Fig. 1.9) On vehicles where the USB cannot be removed, use the supplied USB housing.

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

- Using a panel tool, pry outward on the trim panel around shifter. Disconnect the harness from the start/stop switch. (Fig. 1.10)

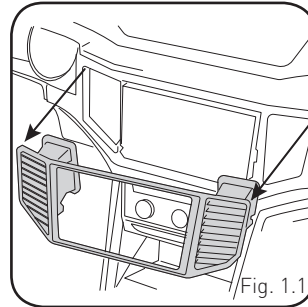


Fig. 1.1

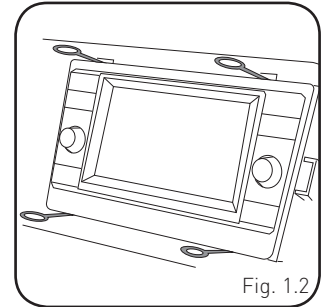


Fig. 1.2

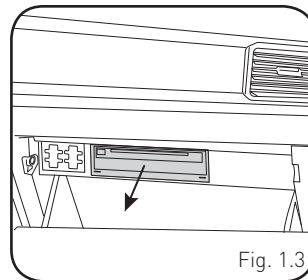


Fig. 1.3

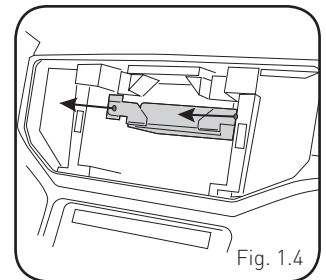


Fig. 1.4

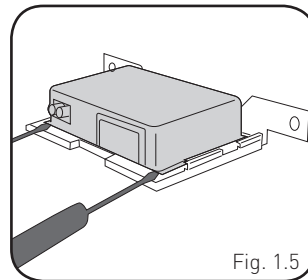


Fig. 1.5

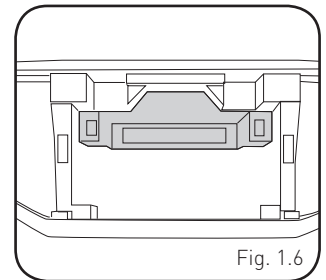


Fig. 1.6

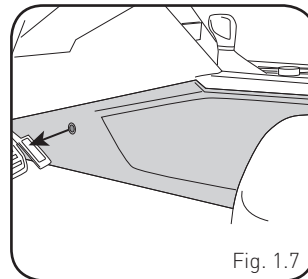


Fig. 1.7

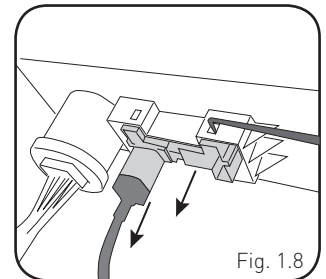


Fig. 1.8

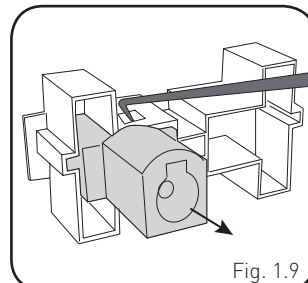


Fig. 1.9

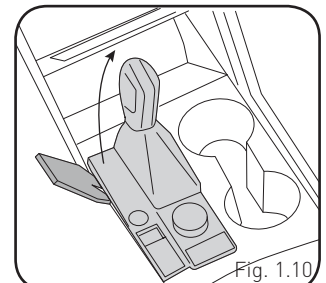


Fig. 1.10

INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

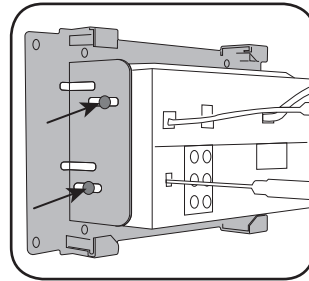


Fig. 2.1

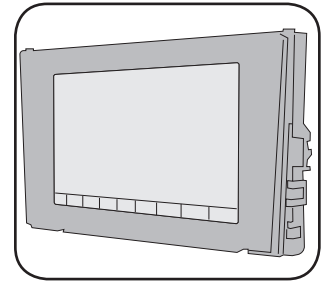


Fig. 2.2

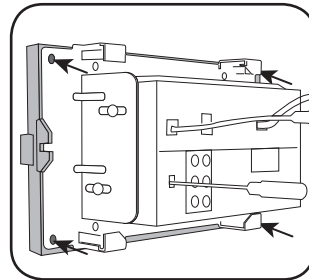


Fig. 2.3

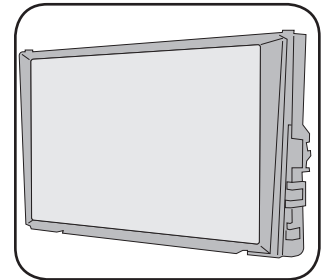


Fig. 3.1

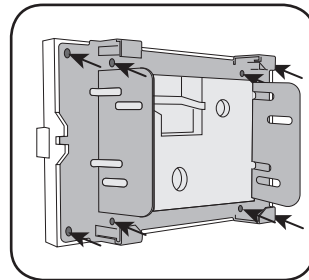


Fig. 3.2

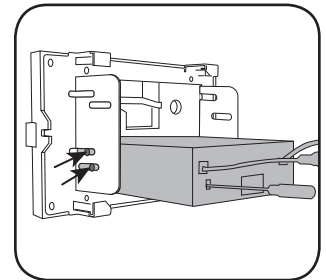


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- If radio connectors are in glove box cavity, route wire harness to dash cavity).

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BLACK/GRAY wire at pin 9. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.

5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.

6. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

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

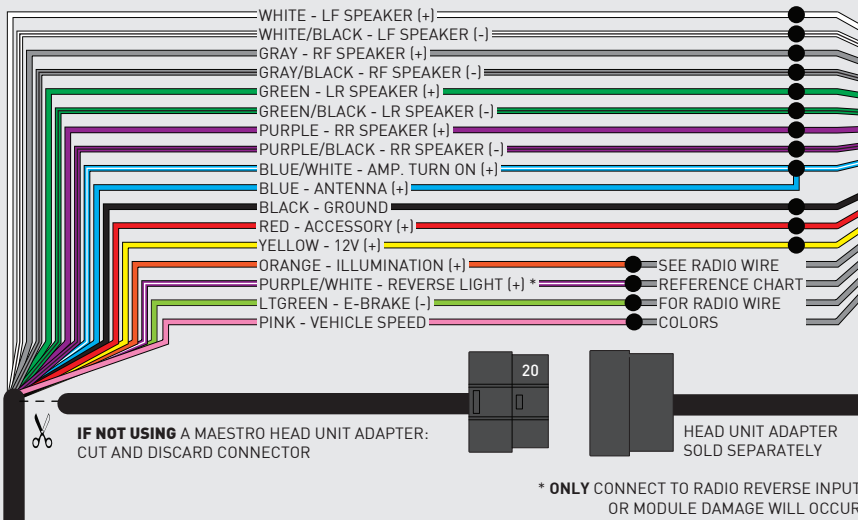
7. Snap VW1 USB adapter into USB housing and reinstall into factory location.

8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

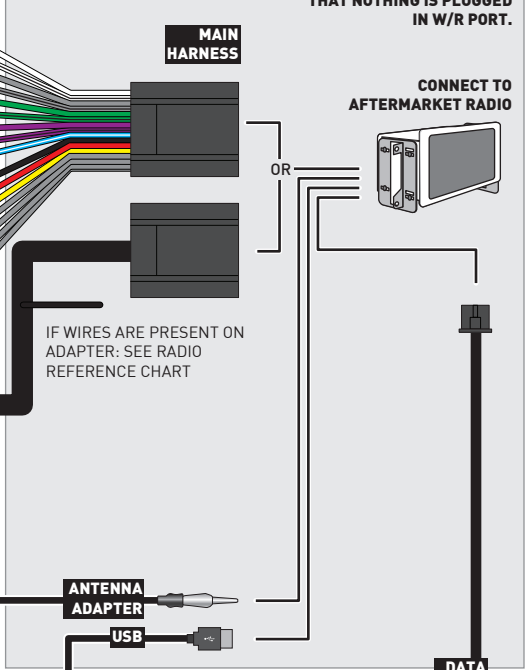
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

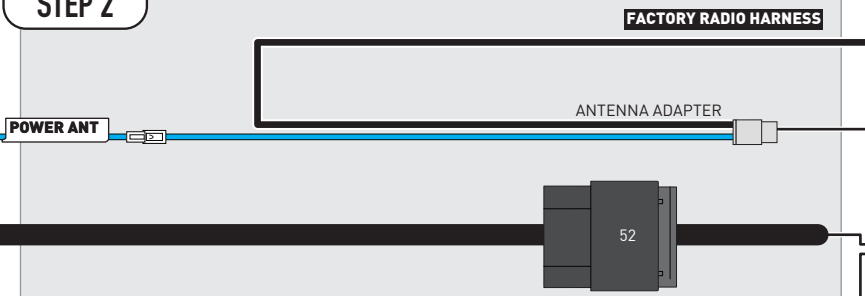
STEP 1



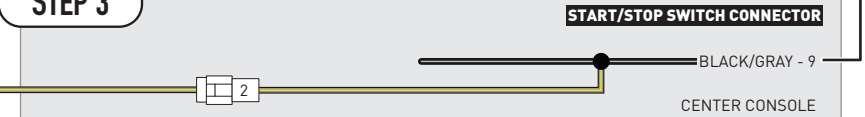
STEP 6



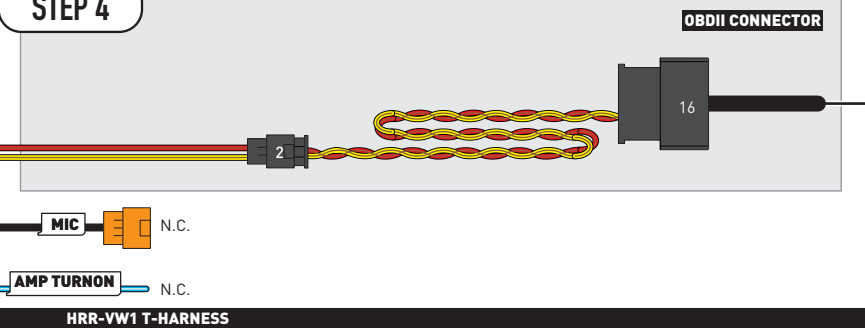
STEP 2



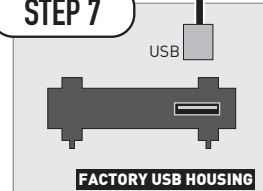
STEP 3



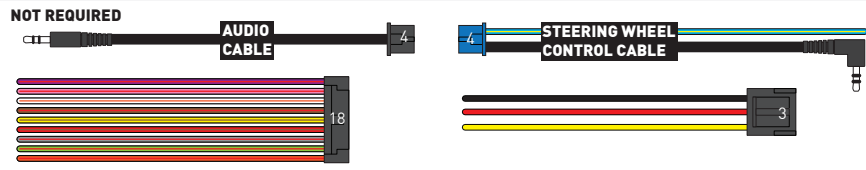
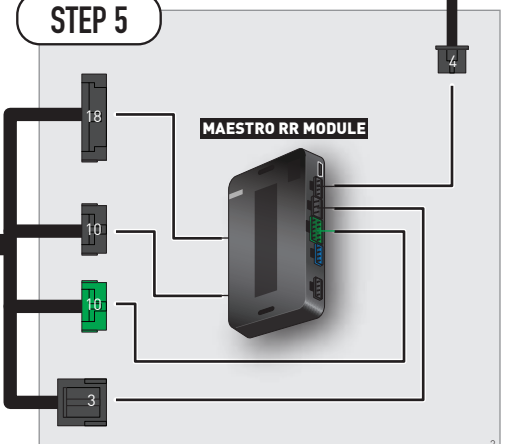
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



NEED HELP?

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INSTALLATION INSTRUCTIONS P1/2

DASH DISASSEMBLY

- Using a panel tool, carefully pry outward around the radio trim panel to release the clips securing it in place. (Fig. 1.1)
- Remove the factory radio using the four (4) supplied radio removal tools. Slide them into the top and bottom locations with the tapered side facing inward until they click, then pull them outward to release the clips and remove the radio from the dash. Disconnect all harness. (Fig. 1.2)
- [8 inch radio]** Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. Disconnect main wire harness and all antenna connections. (Fig. 1.3)
- To make room for the aftermarket radio you must relocate the telematics module. Remove the two (2) T25 Torx screws securing the telematics module bracket. Remove from dash. (Fig. 1.4)
Release the 2 clips holding the module to the bracket, and find a secure location in the dash cavity to place the telematics module. (Fig. 1.5)
- To make room for the aftermarket radio, cut out small section of the upper dash cavity (highlighted). (Fig. 1.6)

USB HOUSING

- Remove single (1) T25 Torx screw located on driver side center console trim. Slide the trim down to release clips. (Fig. 1.7)
- Using a long pick tool press down on the four (4) clips securing the USB housing in place (two on top and two on bottom). Remove and disconnect USB plug. (Fig. 1.8)
- Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. (Fig. 1.9) On vehicles where the USB cannot be removed, use the supplied USB housing.

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

- Using a panel tool, pry outward on the trim panel around the climate controls. Disconnect the harness from the start/stop switch. (Fig. 1.10)

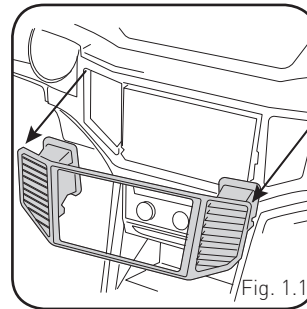


Fig. 1.1

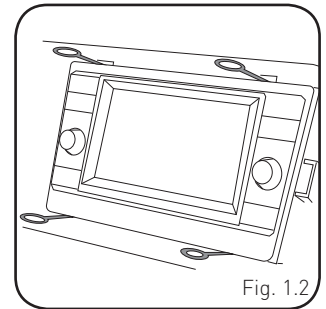


Fig. 1.2

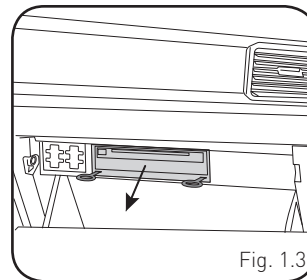


Fig. 1.3

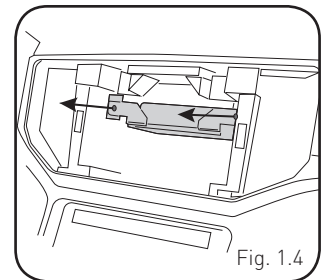


Fig. 1.4

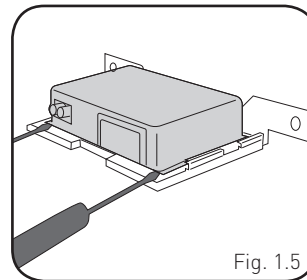


Fig. 1.5

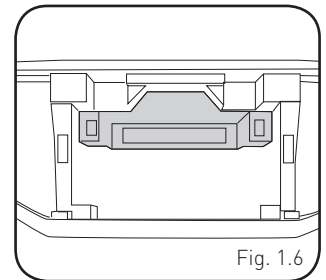


Fig. 1.6

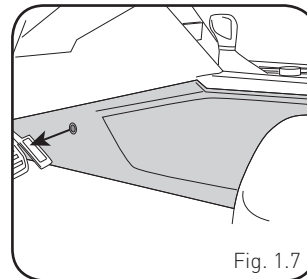


Fig. 1.7

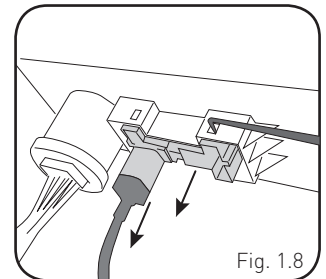


Fig. 1.8

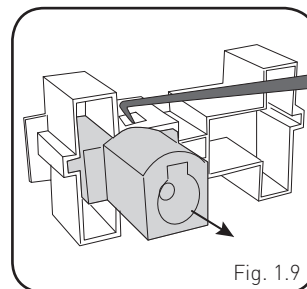


Fig. 1.9

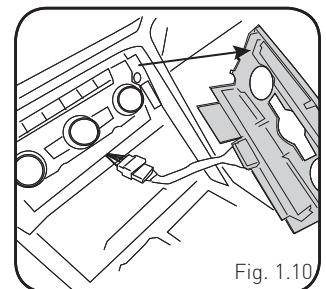


Fig. 1.10

INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

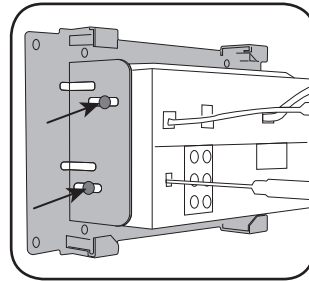


Fig. 2.1

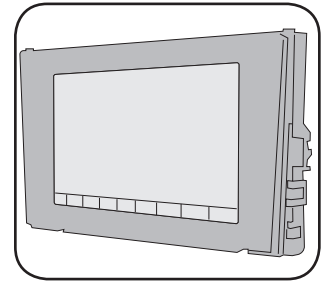


Fig. 2.2

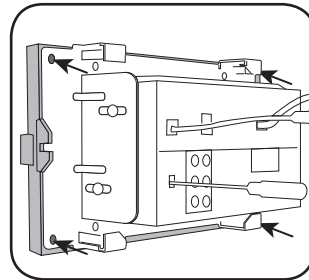


Fig. 2.3

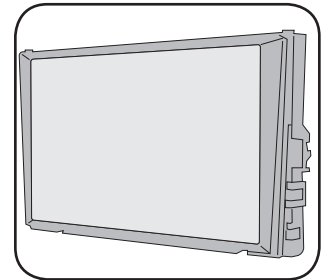


Fig. 3.1

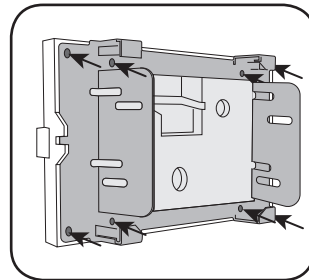


Fig. 3.2

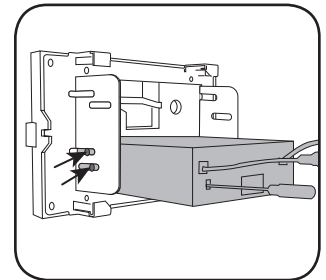


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- If radio connectors are in glove box cavity, route wire harness to dash cavity).

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (below HVAC controls) and attach it to BLACK/GRAY wire at pin 9. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.

5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.

6. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

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

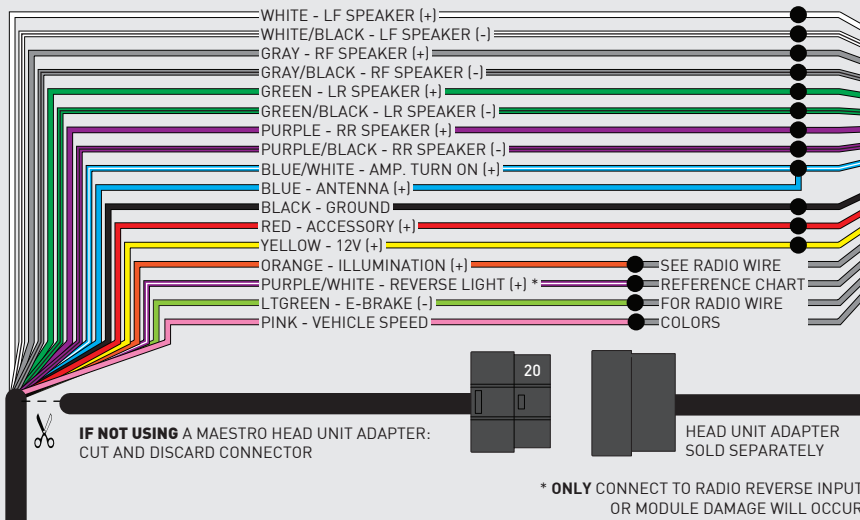
7. Snap VW1 USB adapter into factory USB housing and reinstall into factory location.

8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

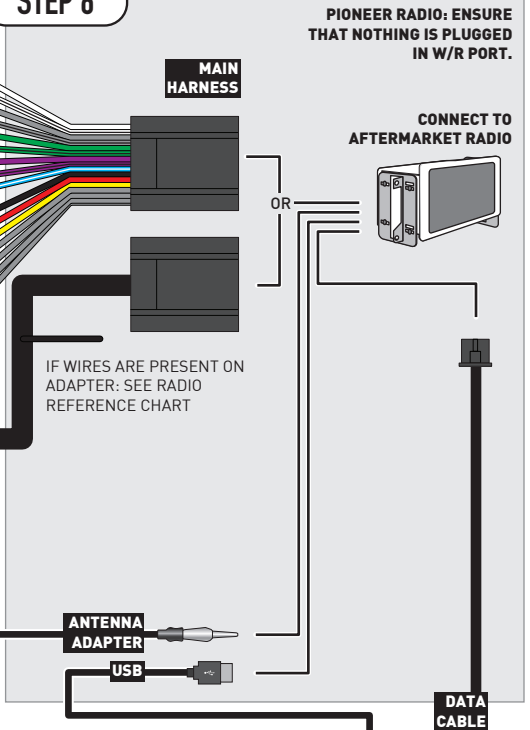
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

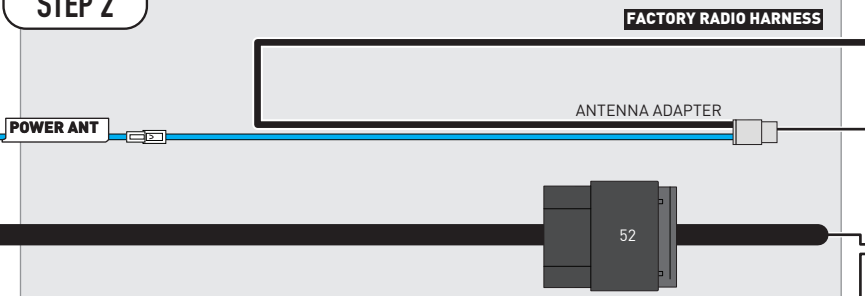
STEP 1



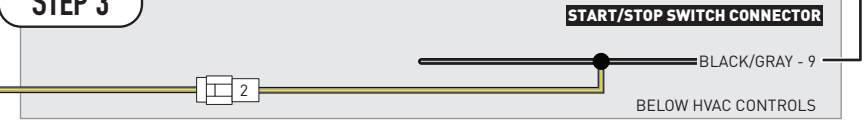
STEP 6



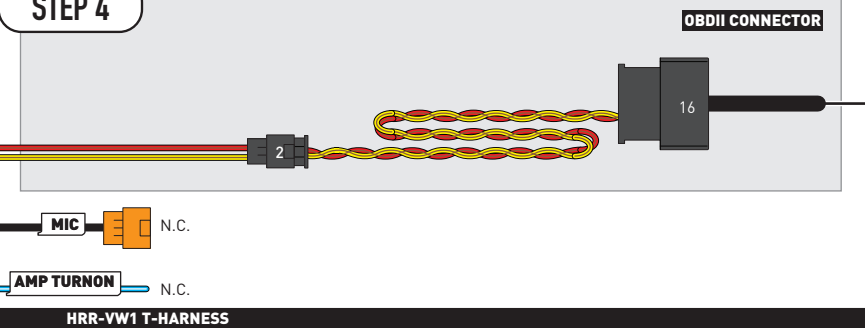
STEP 2



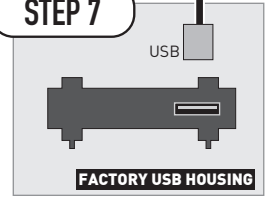
STEP 3



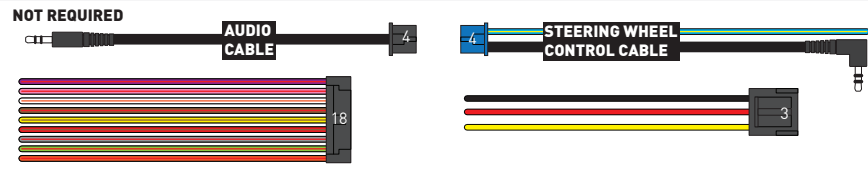
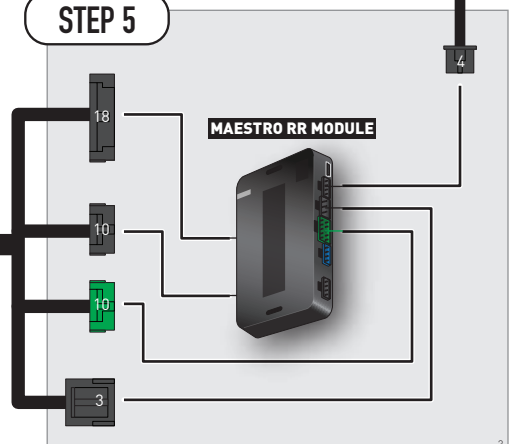
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

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iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



NEED HELP?

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INSTALLATION INSTRUCTIONS P1/2

DASH DISASSEMBLY

- Using a panel tool, carefully pry outward on trim panel and vents around radio. (Fig. 1.1)
- Disconnect the harnesses going to hazard and airbag indicator (do not cycle key with this unplugged).
- Insert the four (4) supplied radio keys into the slots at the top and bottom of the factory radio with the tapered sides facing inward, pull outward to remove the radio from the dash. (Fig. 1.2)
Disconnect all harness and remove.

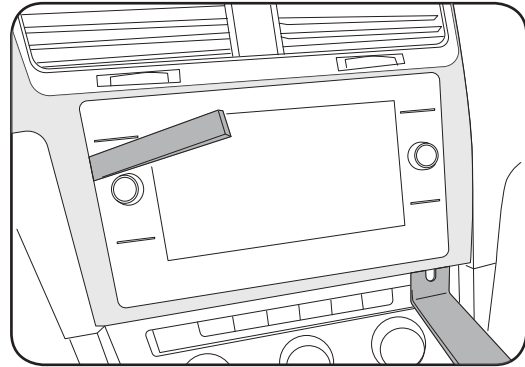


Fig. 1.1

- (8 inch radio)** Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. (Fig. 1.3) Disconnect main wire harness and all antenna connections.
- To make room for the aftermarket radio, trim subdash and dash cavity as necessary. (Fig. 1.4)

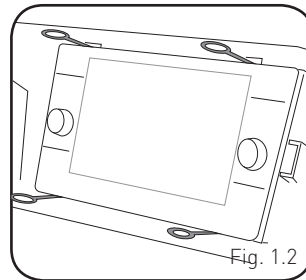


Fig. 1.2

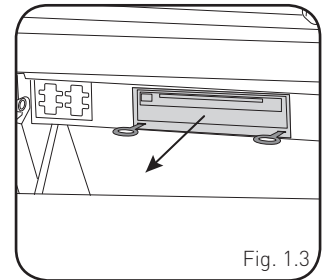


Fig. 1.3

USB HOUSING

- Remove one (1) T20 Torx screw from the center console side panel, and release the clips to remove. (Fig. 1.5)
- Using a pick tool release the clips at the top and bottom to release the USB, remove USB and disconnect the harness. (Fig. 1.6)

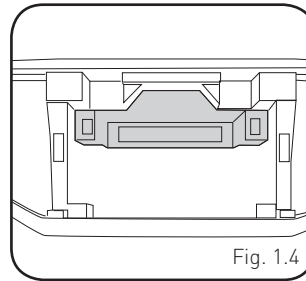


Fig. 1.4

Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

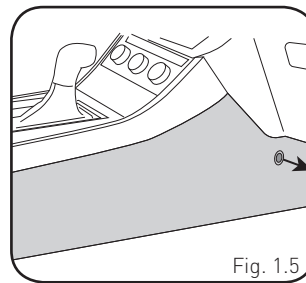


Fig. 1.5

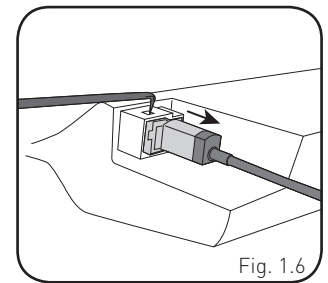


Fig. 1.6

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

- Using a small panel tool, remove the trim panel located at the base of the shifter. (Fig. 1.7)

Pull upward on the shift boot. Reach under start/stop button assembly on driver side and pull upward to release it from console. (Fig. 1.8)

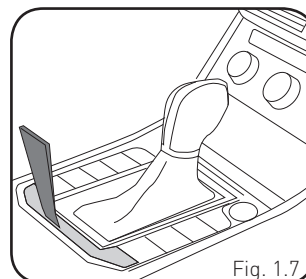


Fig. 1.7

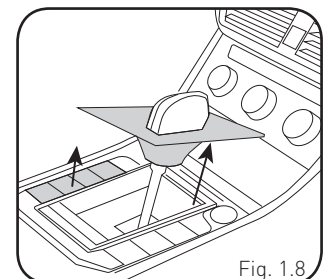


Fig. 1.8

INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

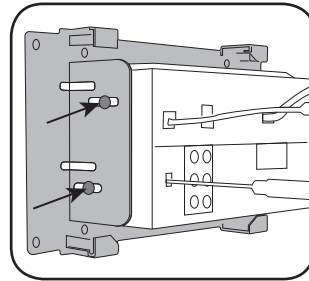


Fig. 2.1

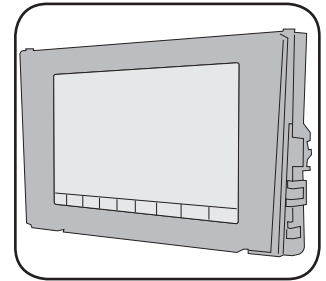


Fig. 2.2

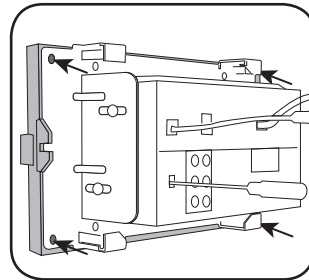


Fig. 2.3

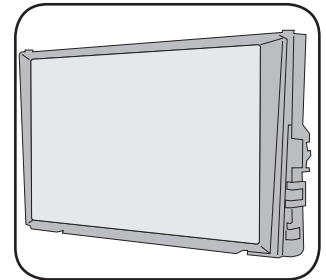


Fig. 3.1

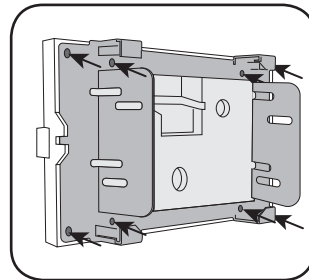


Fig. 3.2

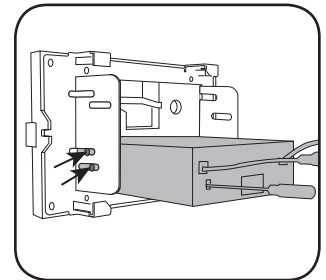


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- If radio connectors are in glove box cavity, route wire harness to dash cavity).

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BLACK/BLUE wire at pin 4. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.
5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.
6. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

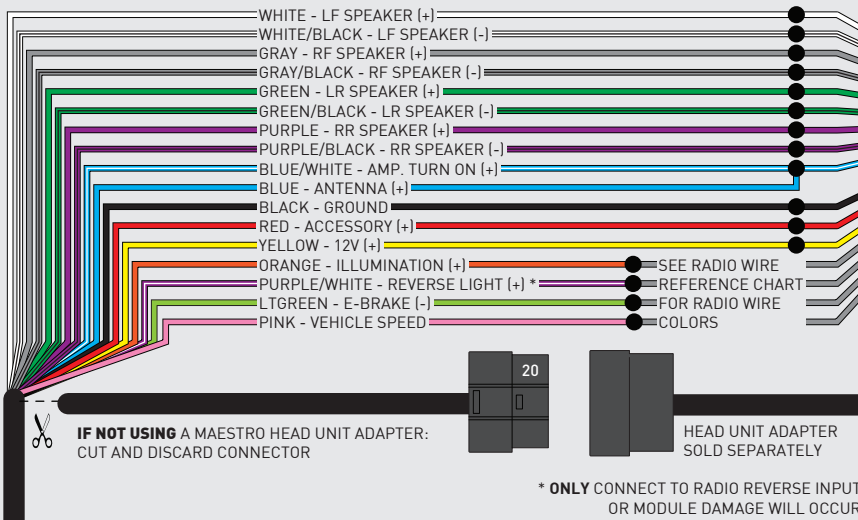
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

7. Snap VW1 USB adapter into factory USB housing and reinstall into factory location.
8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

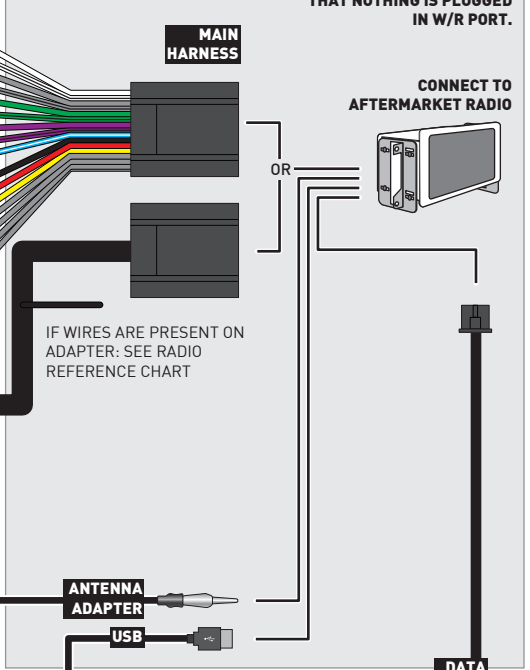
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

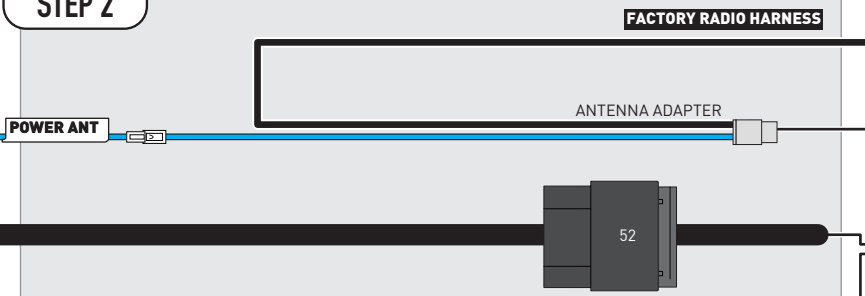
STEP 1



STEP 6



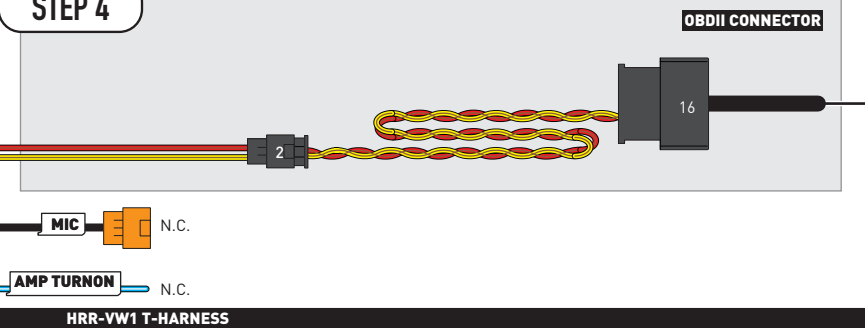
STEP 2



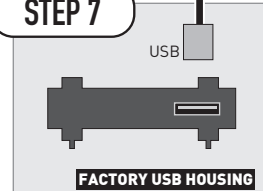
STEP 3



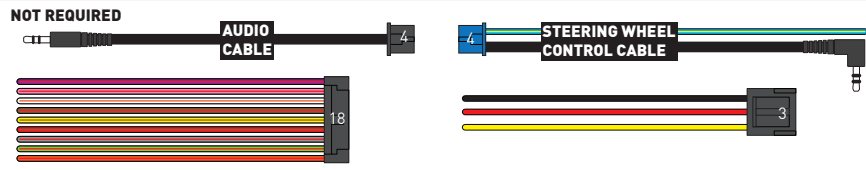
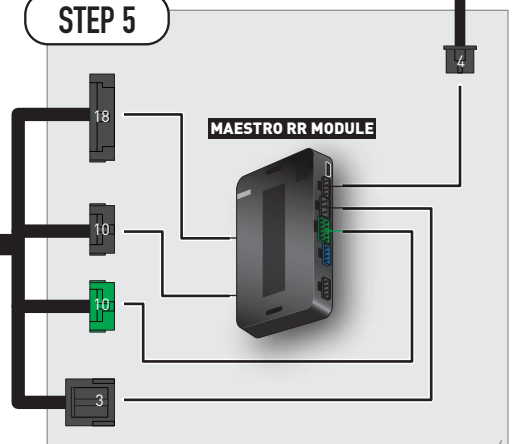
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



HEAD UNIT
ADAPTER READY

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



NEED HELP?

1 866 427-2999

maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/2

DASH DISASSEMBLY

- Using a panel tool, carefully pry outward on trim panel and vents around radio. (Fig. 1.1)
- Disconnect the harnesses going to hazard and airbag indicator (do not cycle key with this unplugged).
- Insert the four (4) supplied radio keys into the slots at the top and bottom of the factory radio with the tapered sides facing inward, pull outward to remove the radio from the dash. (Fig. 1.2)
Disconnect all harness and remove.

- (8 inch radio)** Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. (Fig. 1.3) Disconnect main wire harness and all antenna connections.
- To make room for the aftermarket radio, trim subdash and dash cavity as necessary. (Fig. 1.4)

USB HOUSING

- Remove one (1) T20 Torx screw from the center console side panel, and release the clips to remove. (Fig. 1.5)
- Using a pick tool release the clips at the top and bottom to release the USB, remove USB and disconnect the harness. (Fig. 1.6)

Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

- Using a small panel tool, remove the trim panel located at the base of the shifter. (Fig. 1.7)

Pull upward on the shift boot. Reach under start/stop button assembly on driver side and pull upward to release it from console. (Fig. 1.8)

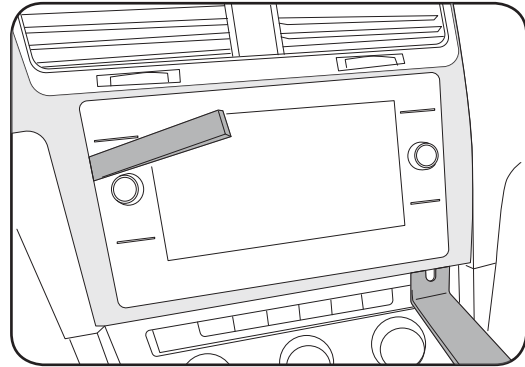


Fig. 1.1

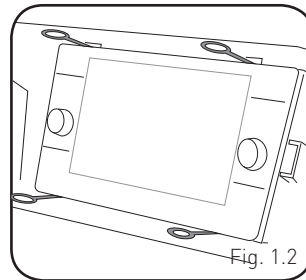


Fig. 1.2

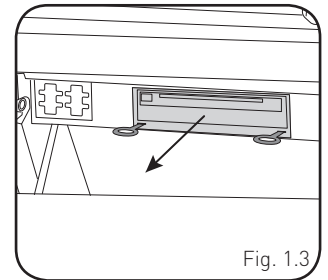


Fig. 1.3

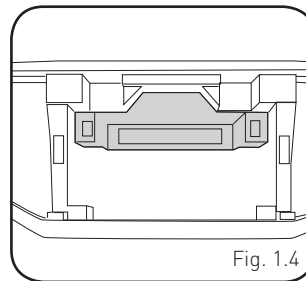


Fig. 1.4

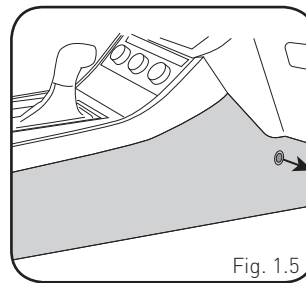


Fig. 1.5

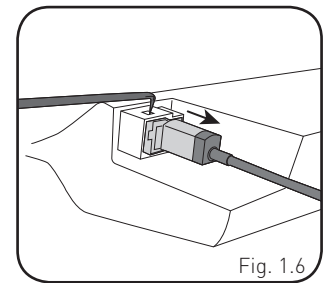


Fig. 1.6

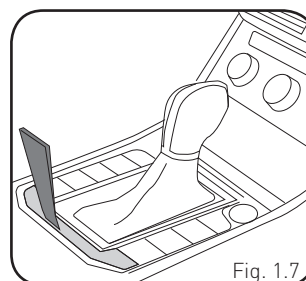


Fig. 1.7

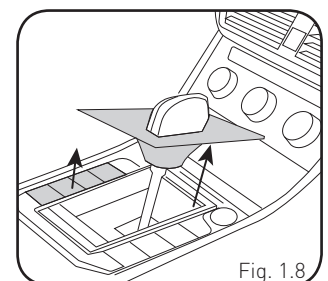


Fig. 1.8

INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

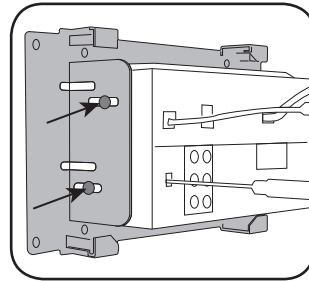


Fig. 2.1

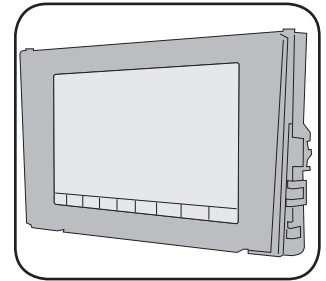


Fig. 2.2

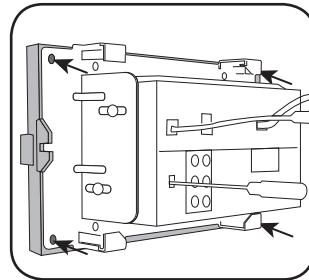


Fig. 2.3

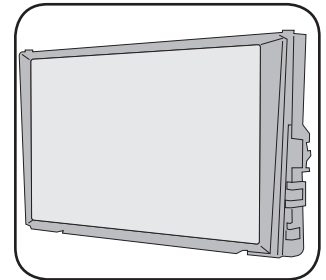


Fig. 3.1

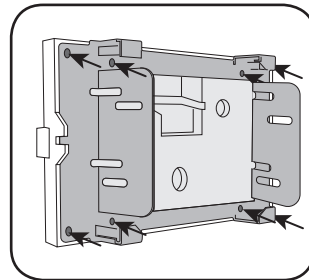


Fig. 3.2

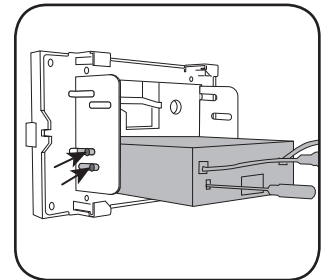


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- If radio connectors are in glove box cavity, route wire harness to dash cavity).

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BLACK/BLUE wire at pin 4. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.

5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.

6. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

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

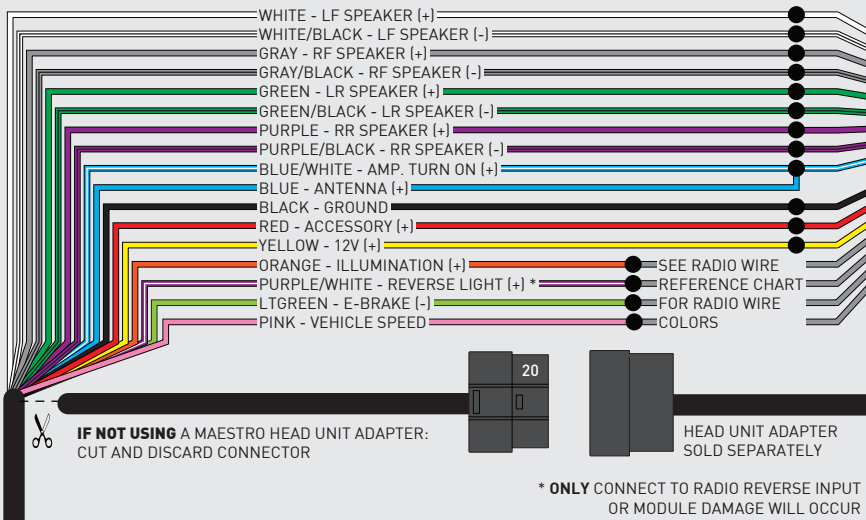
7. Snap VW1 USB adapter into factory USB housing and reinstall into factory location.

8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

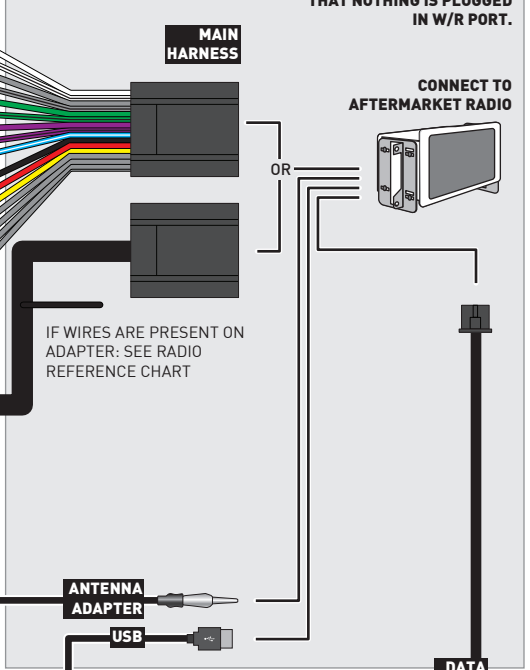
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

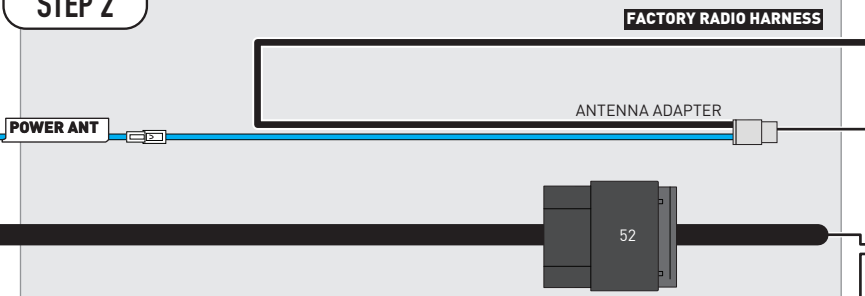
STEP 1



STEP 6



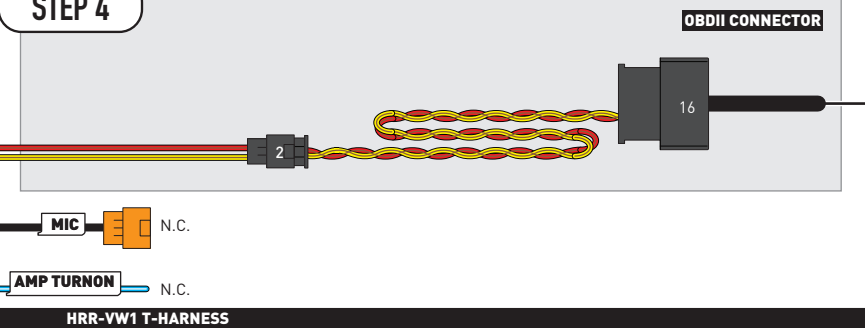
STEP 2



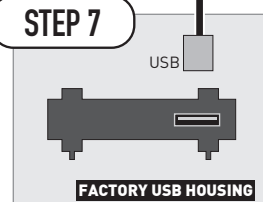
STEP 3



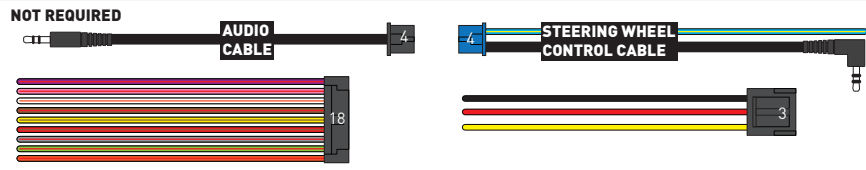
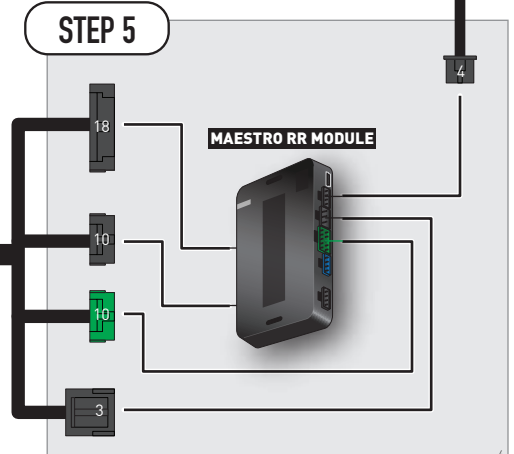
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



NEED HELP?

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INSTALLATION INSTRUCTIONS P1/2

DASH DISASSEMBLY

1. Using a panel tool, carefully pry outward on trim panel and vents around radio. (Fig. 1.1)
2. Disconnect the harnesses going to hazard and airbag indicator (do not cycle key with this unplugged).
3. Insert the four (4) supplied radio keys into the slots at the top and bottom of the factory radio with the tapered sides facing inward, pull outward to remove the radio from the dash. (Fig. 1.2)
Disconnect all harness and remove.

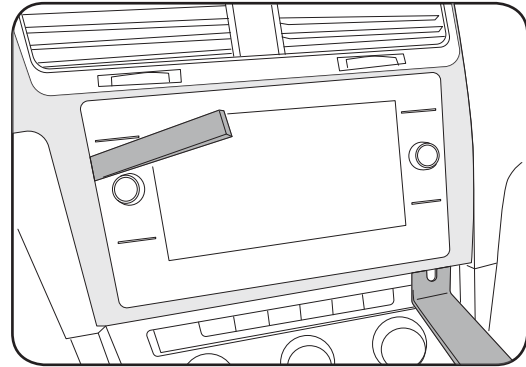


Fig. 1.1

4. **(8 inch radio)** Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. (Fig. 1.3) Disconnect main wire harness and all antenna connections.
5. To make room for the aftermarket radio, trim subdash and dash cavity as necessary. (Fig. 1.4)

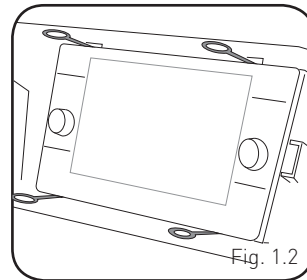


Fig. 1.2

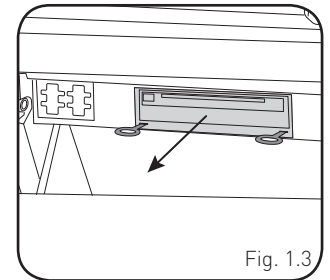


Fig. 1.3

USB HOUSING

6. Remove one (1) T20 Torx screw from the center console side panel, and release the clips to remove. (Fig. 1.5)
7. Using a pick tool release the clips at the top and bottom to release the USB, remove USB and disconnect the harness. (Fig. 1.6)

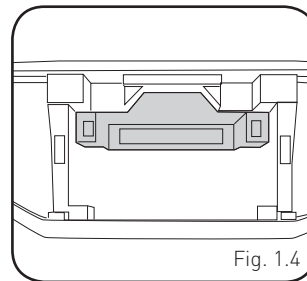


Fig. 1.4

Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

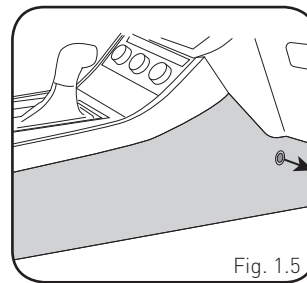


Fig. 1.5

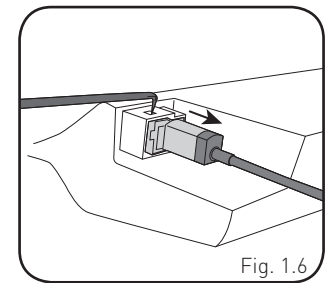


Fig. 1.6

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

8. Using a small panel tool, remove the trim panel located at the base of the shifter. (Fig. 1.7)

Pull upward on the shift boot. Reach under start/stop button assembly on driver side and pull upward to release it from console. (Fig. 1.8)

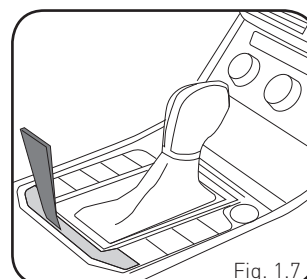


Fig. 1.7

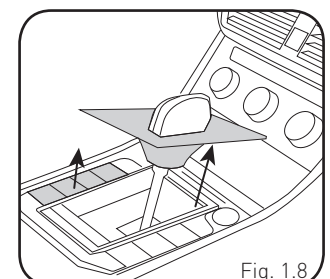


Fig. 1.8

INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

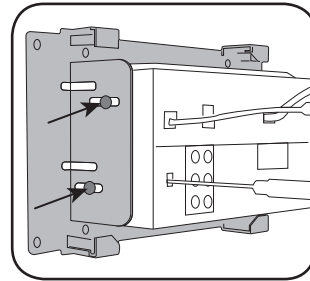


Fig. 2.1

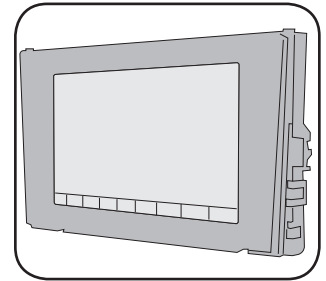


Fig. 2.2

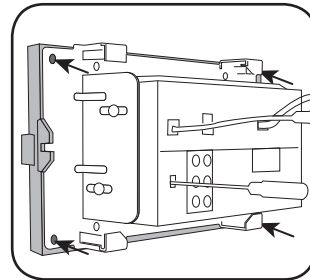


Fig. 2.3

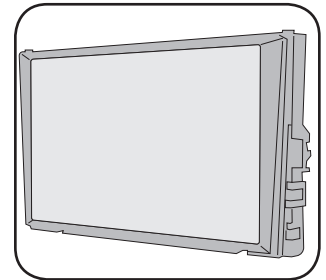


Fig. 3.1

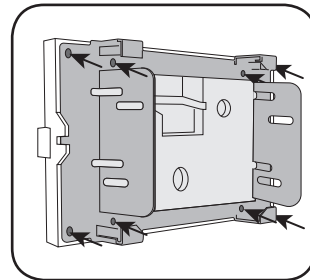


Fig. 3.2

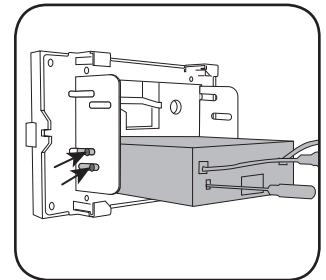


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- If radio connectors are in glove box cavity, route wire harness to dash cavity).

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BLACK/BLUE wire at pin 4. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.

5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.

6. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

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

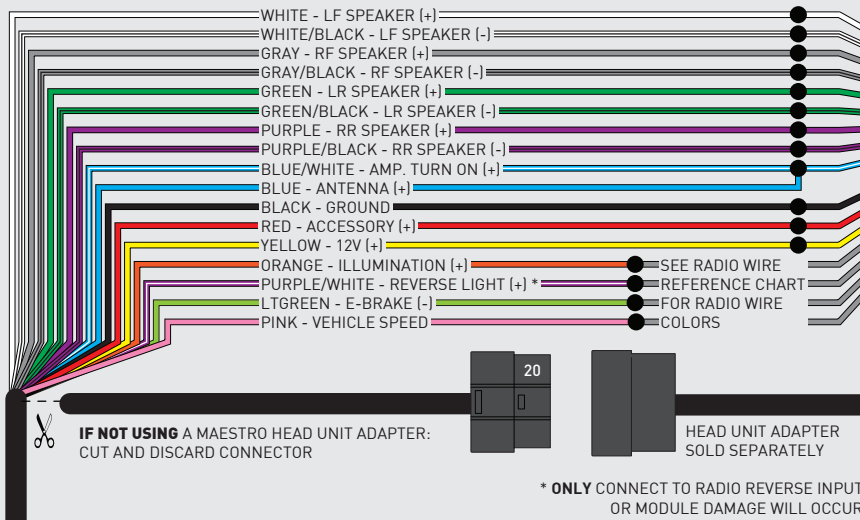
7. Snap VW1 USB adapter into factory USB housing and reinstall into factory location.

8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

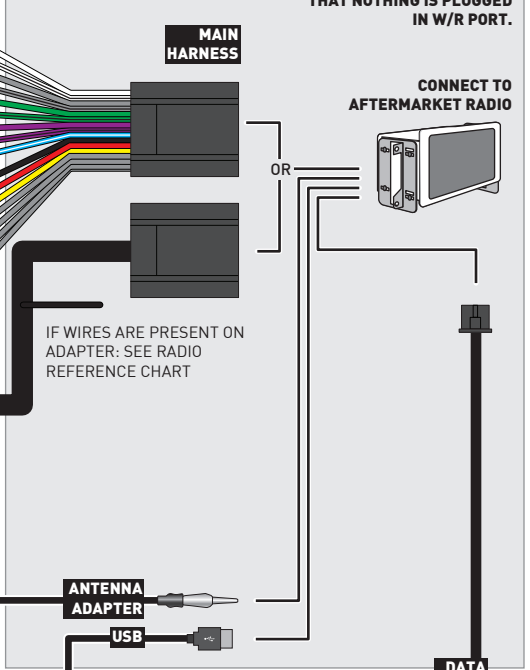
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

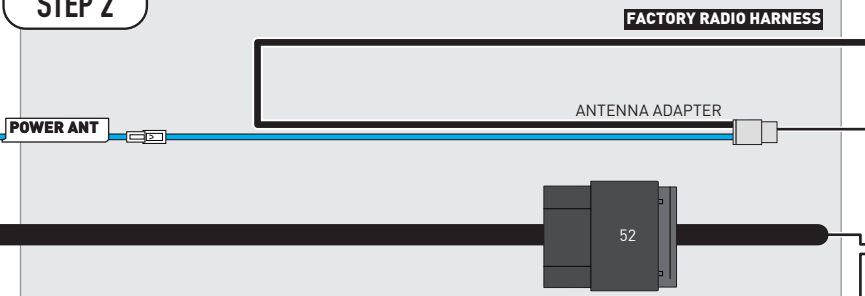
STEP 1



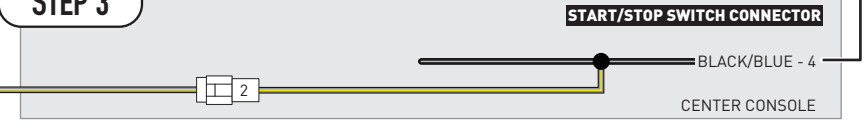
STEP 6



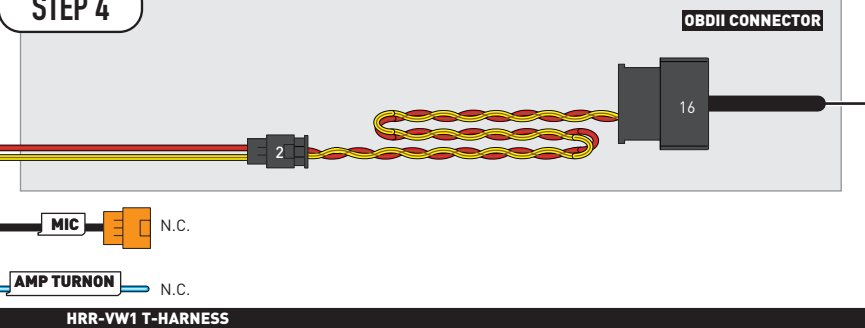
STEP 2



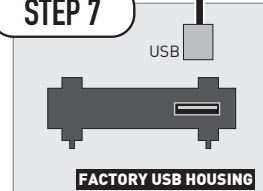
STEP 3



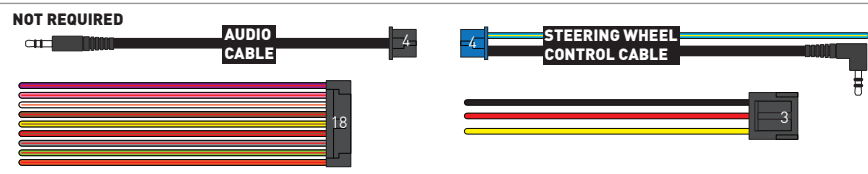
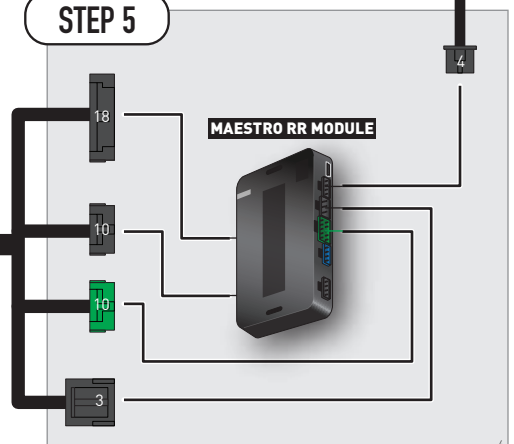
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

Radar Detectors



[Radar Installation Guides](#)

Configuring the RR2's Programmable Outputs

[Maestro RR2 Programmable Outputs Guide](#)

Installation, product information, vehicle specific videos.

[VIDEO HELP](#)



Last flash information, steering control configuration, vehicle information.

[VERIFY FLASH](#)



Software to program module.

[WEBLINK](#)



NEED HELP?

 1 866 427-2999

 maestro.support@idatalink.com

INSTALLATION INSTRUCTIONS P1/2

DASH DISASSEMBLY

- Using a panel tool, carefully pry outward on trim panel and vents around radio. (Fig. 1.1)
- Disconnect the harnesses going to hazard and airbag indicator (do not cycle key with this unplugged).
- Insert the four (4) supplied radio keys into the slots at the top and bottom of the factory radio with the tapered sides facing inward, pull outward to remove the radio from the dash. (Fig. 1.2)
Disconnect all harness and remove.

- (8 inch radio)** Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. (Fig. 1.3) Disconnect main wire harness and all antenna connections.
- To make room for the aftermarket radio, trim subdash and dash cavity as necessary. (Fig. 1.4)

USB HOUSING

- Remove one (1) T20 Torx screw from the center console side panel, and release the clips to remove. (Fig. 1.5)
- Using a pick tool release the clips at the top and bottom to release the USB, remove USB and disconnect the harness. (Fig. 1.6)

Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

- Using a small panel tool, remove the trim panel located at the base of the shifter. (Fig. 1.7)

Pull upward on the shift boot. Reach under start/stop button assembly on driver side and pull upward to release it from console. (Fig. 1.8)

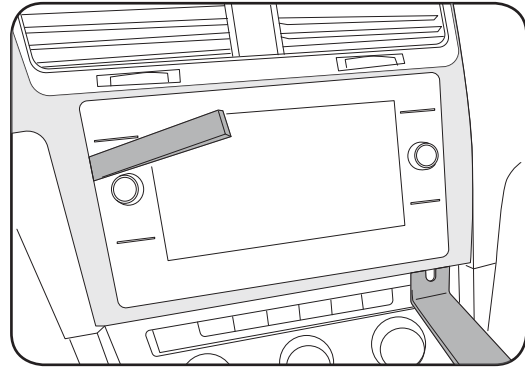


Fig. 1.1

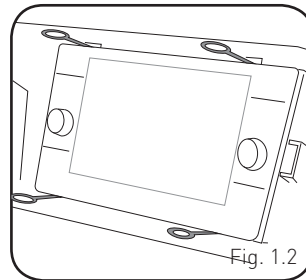


Fig. 1.2

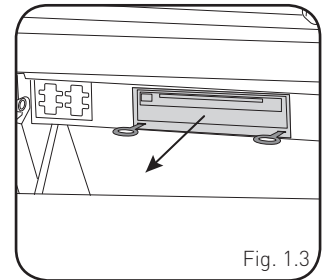


Fig. 1.3

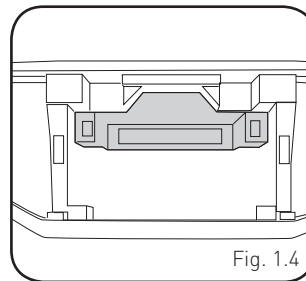


Fig. 1.4

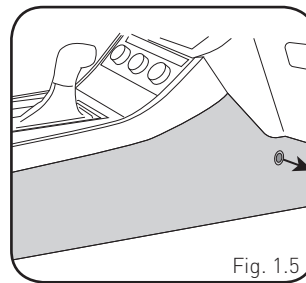


Fig. 1.5

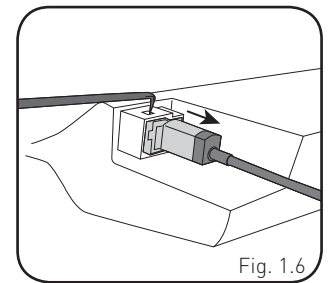


Fig. 1.6

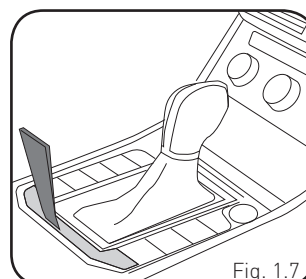


Fig. 1.7

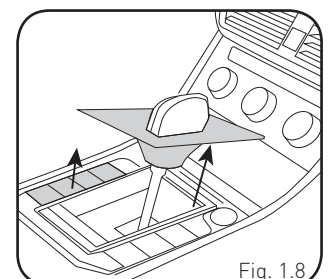


Fig. 1.8

INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

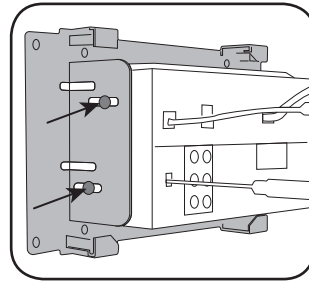


Fig. 2.1

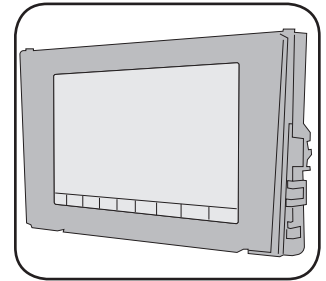


Fig. 2.2

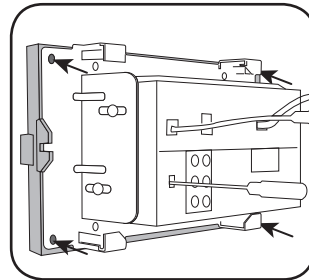


Fig. 2.3

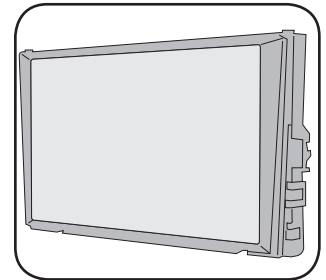


Fig. 3.1

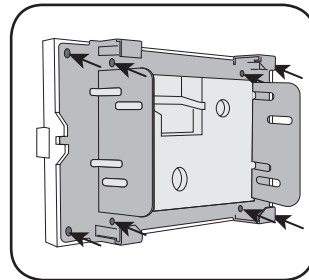


Fig. 3.2

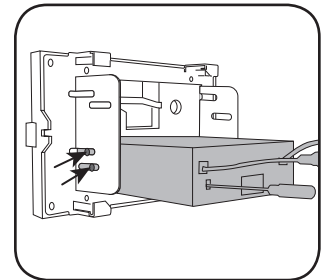


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- If radio connectors are in glove box cavity, route wire harness to dash cavity).

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BLACK/BLUE wire at pin 4. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.
5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.
6. Make Connections to the back of aftermarket radio: Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

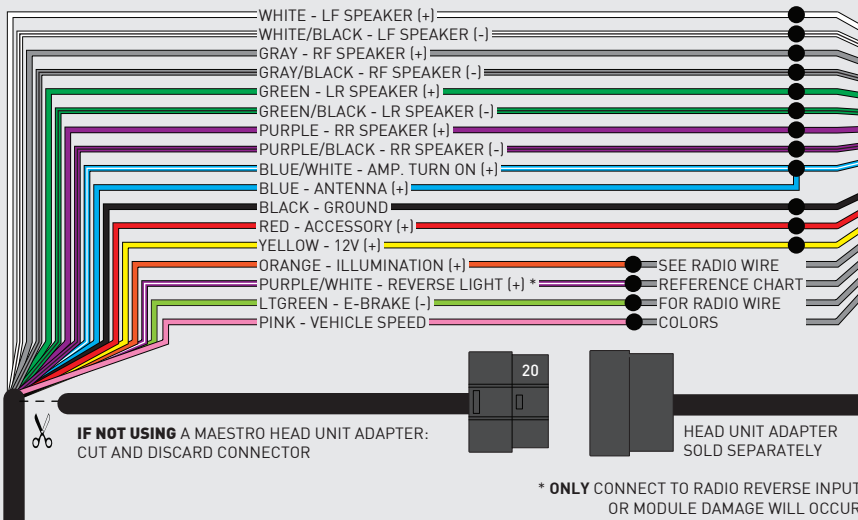
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

7. Snap VW1 USB adapter into factory USB housing and reinstall into factory location.
8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

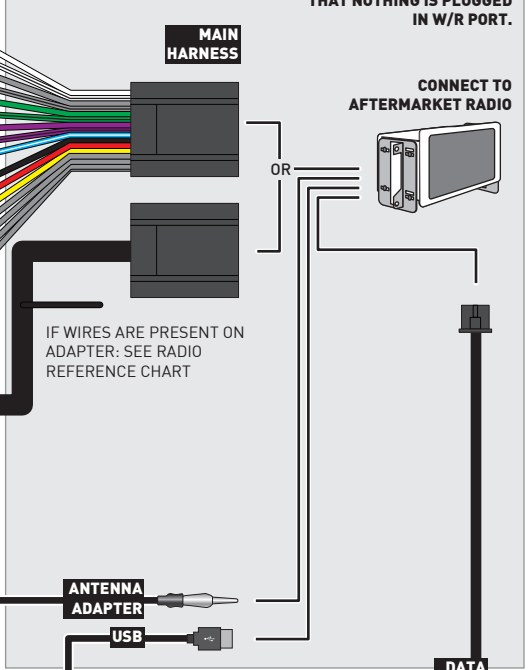
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

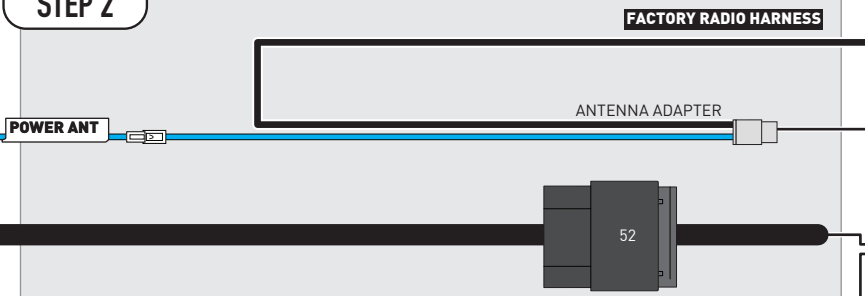
STEP 1



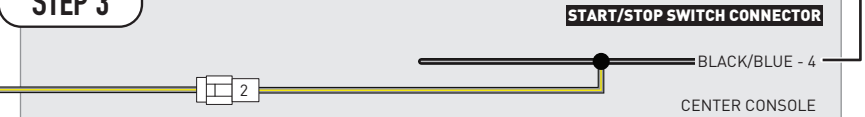
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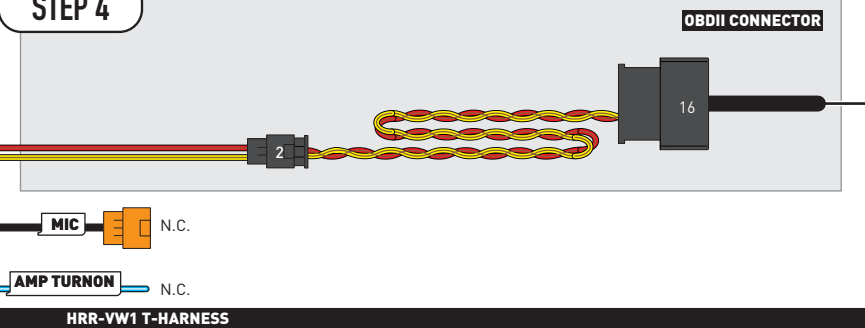
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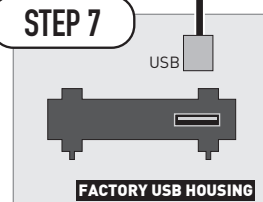
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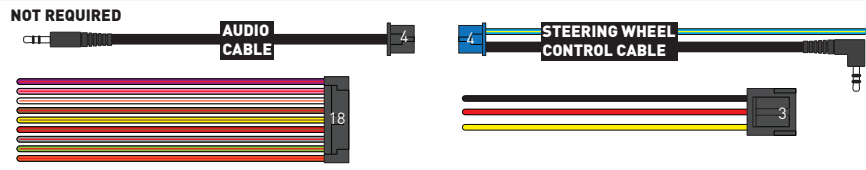
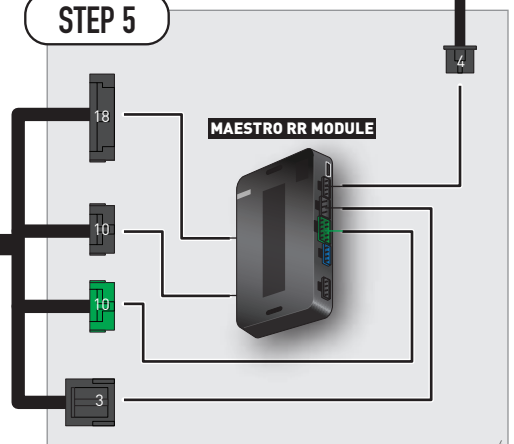
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-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

SAT1, SAT2
(Antenna adapter)

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

DASH DISASSEMBLY

1. Using a panel tool, carefully pry outward on the small trim panel left of the steering wheel. (Fig. 1.1)
2. Remove the panel directly below the previous one, then remove the single T20 Torx screw behind it. (Fig. 1.2)
3. Using a panel tool, remove the passenger side dash trim panel. Once clips are released, slide to the right to unhook. Remove vent by pulling outward. (Fig. 1.3)
4. Open glovebox and using a panel tool, pry out the dash trim above it to release the clips securing it. (Fig. 1.4)
5. Remove three (3) T20 Torx screws securing the bottom of the radio trim bezel. Extend the steering wheel to the furthest position outward and remove the radio trim starting with the top of the steering column then above instrument cluster and maneuvering it around the steering wheel and cluster. (Fig. 1.5)
6. Insert the four (4) supplied radio keys into the slots at the top and bottom of the factory radio with the tapered sides facing inward, pull outward to remove the radio from the dash. Disconnect all harness and remove. (Fig. 1.6)
7. **(8 inch radio)** Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. (Fig. 1.7) Disconnect main wire harness and all antenna connections.
8. **(6.5 inch radio)** Remove five (5) T20 Torx screws securing the sub dash bracket in place and remove. (Fig. 1.8)
9. To make room for the aftermarket radio, you will need to cut out a small section from the left and right side of the sub dash. (Fig. 1.9)

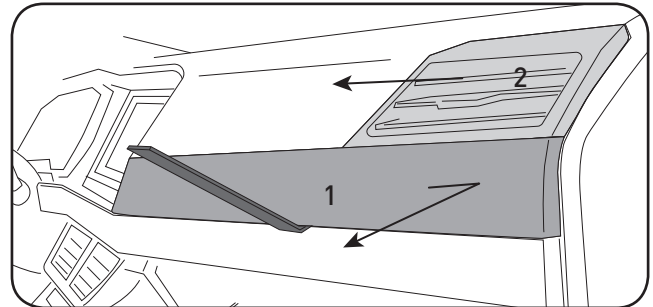


Fig. 1.3

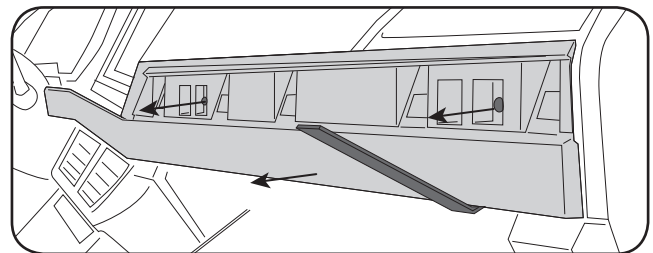


Fig. 1.4

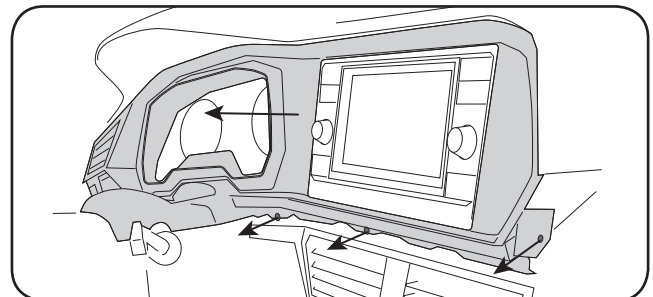


Fig. 1.5

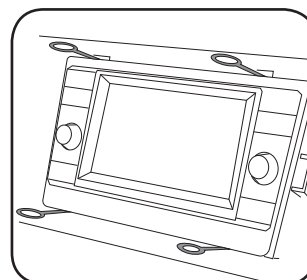


Fig. 1.6

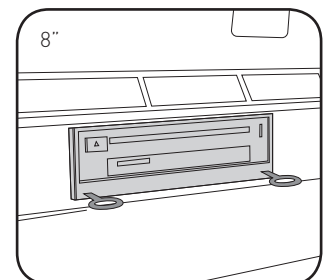


Fig. 1.7

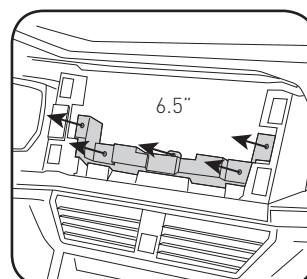


Fig. 1.8

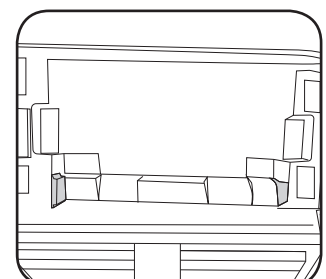


Fig. 1.9

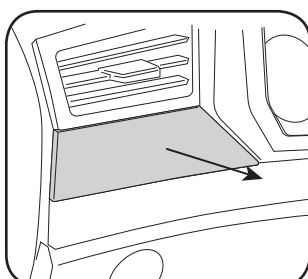


Fig. 1.1

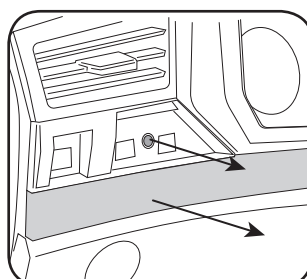


Fig. 1.2

INSTALLATION INSTRUCTIONS P2/3

USB HOUSING

- Remove one (1) T20 Torx screw from the center console side panel, and release the clips to remove. (Fig. 1.10)
- Using a pick tool release the clips at the top and bottom to release the USB, remove USB and disconnect the harness. (Fig. 1.11)

Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.

If equipped with Start/Stop system

- Using a small panel tool, remove the trim panel located at the base of the shifter. (Fig. 1.12)
- Pull upward on the shift boot. Reach under start/stop button assembly on driver side and pull upward to release it from console. (Fig. 1.13)

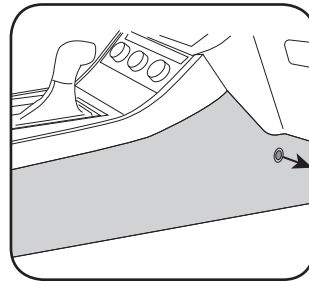


Fig. 1.10

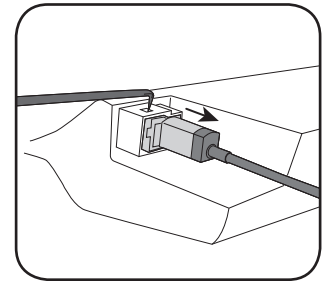


Fig. 1.11

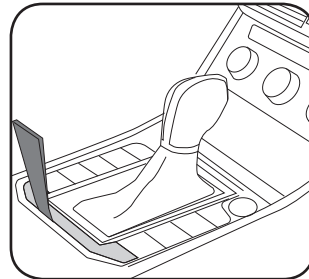


Fig. 1.12

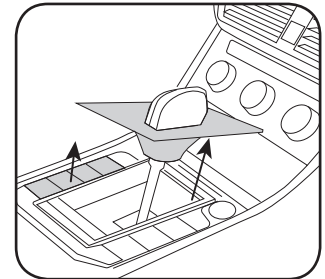


Fig. 1.13

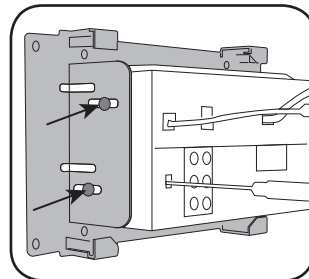


Fig. 1.14

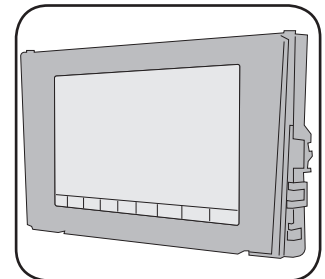


Fig. 1.15

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

- Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 1.14)
- Place VW1 bezel onto the mounting bracket (Fig. 1.15), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 1.16)

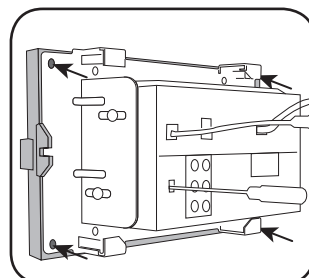


Fig. 1.16

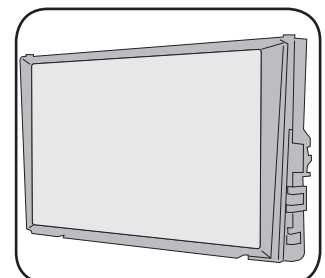


Fig. 1.17

INSTALLING PIONEER MODULAR RADIO

- Place the Pioneer screen into the VW1 bezel. (Fig. 1.17)
- Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 1.18)
- Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 1.19)

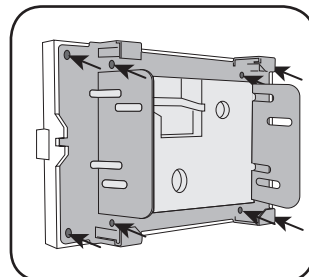


Fig. 1.18

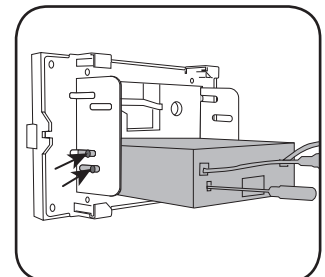


Fig. 1.19

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.

(8 inch radio) Open Glovebox and connect the VW1 Harness to the main radio wiring harness and route to radio cavity.

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BLACK/BLUE wire at pin 4. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.
5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.
6. Snap VW1 USB adapter into factory USB housing and reinstall into factory location.
7. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

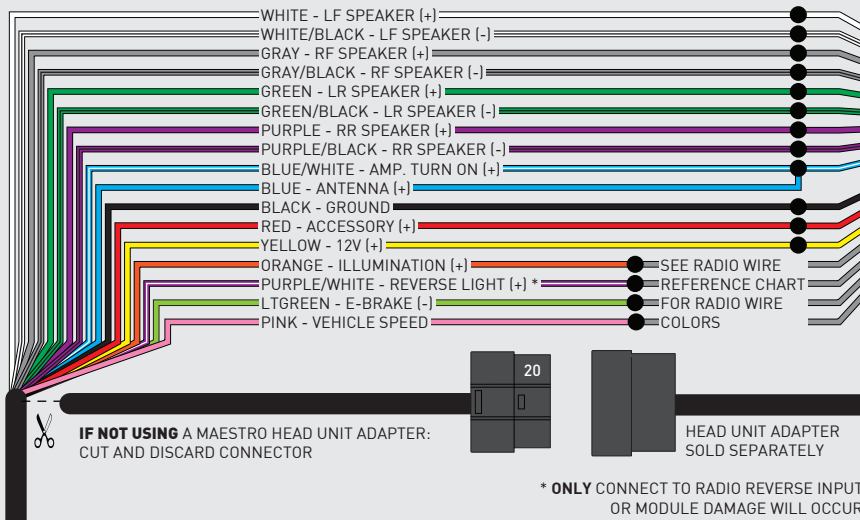
Note: On Pioneer radio, ensure that there is nothing plugged into the W/R port.

8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

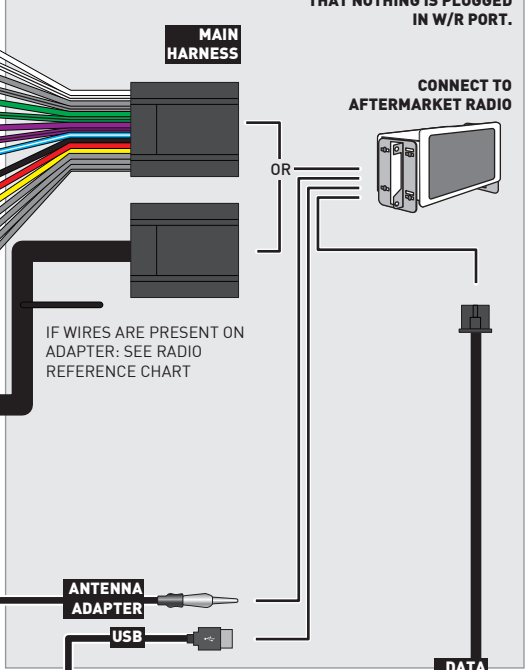
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

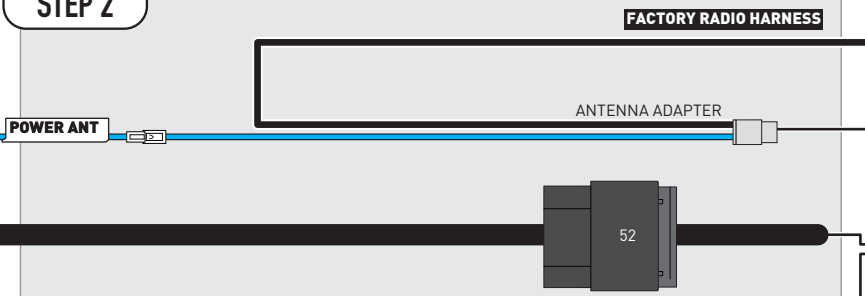
STEP 1



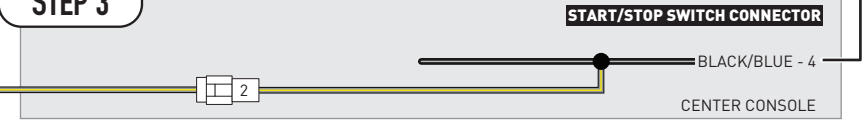
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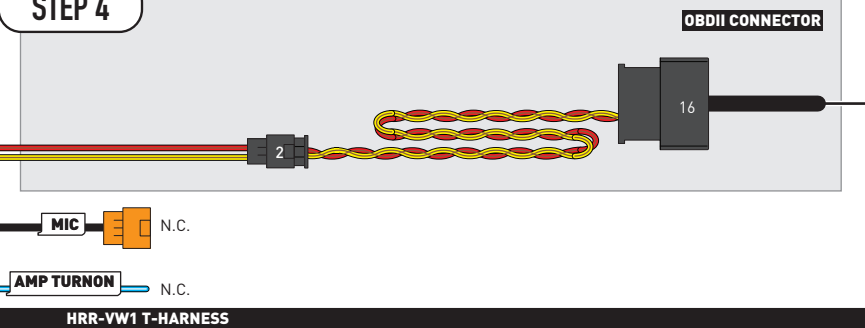
STEP 2



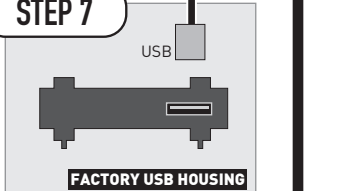
STEP 3



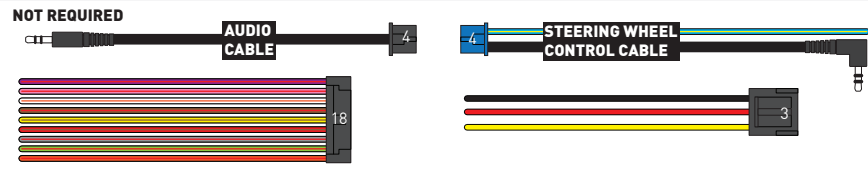
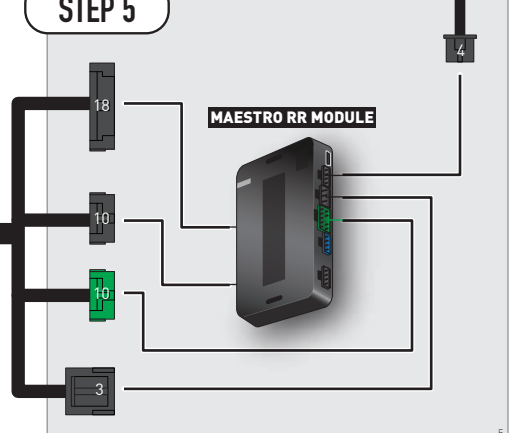
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

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iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

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](#)



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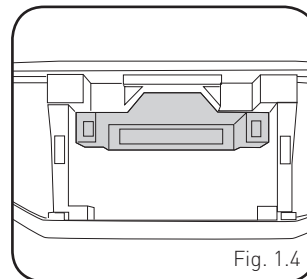
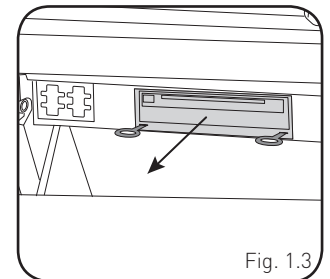
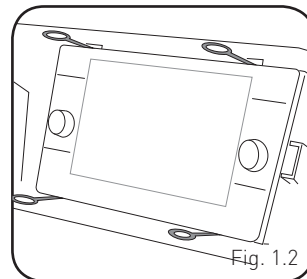
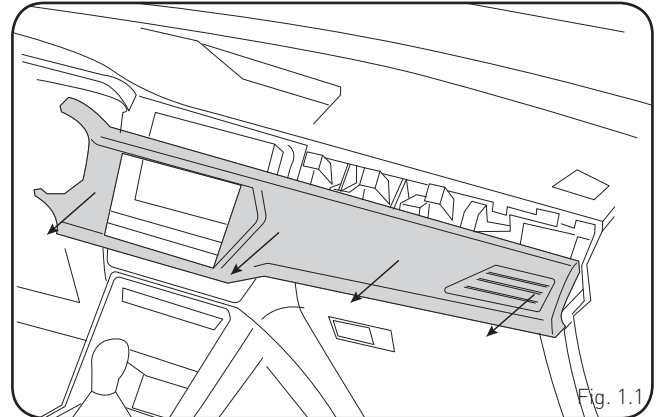
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INSTALLATION INSTRUCTIONS P1/3

DASH DISASSEMBLY

- Using a panel tool, carefully pry outward around dash bezel/dash pad prying outward around the bezel and moving towards the driver side to release. (Fig. 1.1)
- Remove the factory radio using the four (4) supplied radio removal tools. Slide them into the top and bottom locations with the tapered side facing inward until they click, then pull them outward to release the clips and remove. (Fig. 1.2)
Disconnect the main wiring harness and antenna connections.
- (If equipped)**, open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. (Fig. 1.3)
Disconnect main wire harness and all antenna connections.
- To make room for the aftermarket radio, trim subdash and dash cavity as necessary. (Fig. 1.4)

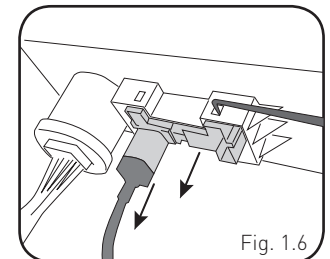
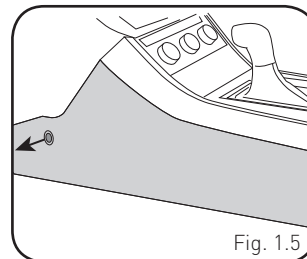


USB HOUSING

- Remove single (1) T25 Torx screw located on driver side center console trim. Slide the trim down to release clips. (Fig. 1.5)
- Using a long pick tool press down on the four (4) clips securing the USB housing in place (two on top and two on bottom). Remove and disconnect USB plug. (Fig. 1.6)

Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

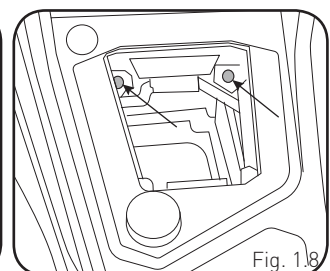
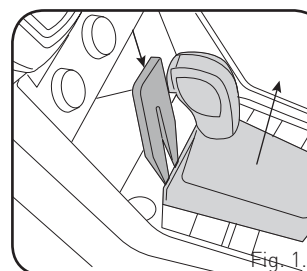
Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.



If equipped with Start/Stop system

- Using a trim panel tool remove the trim panel located at the base of the shifter starting at the front. (Fig. 1.7)

Remove (2) T20 bolts and remove panel and disconnect harnesses. (Fig. 1.8)



INSTALLATION INSTRUCTIONS P2/3

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

1. Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
2. Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

INSTALLING PIONEER MODULAR RADIO

1. Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
2. Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
3. Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

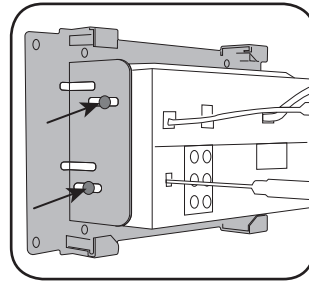


Fig. 2.1

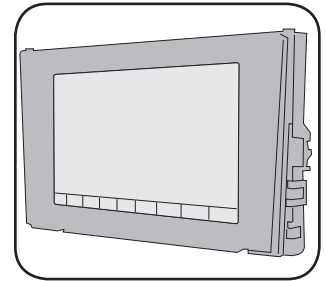


Fig. 2.2

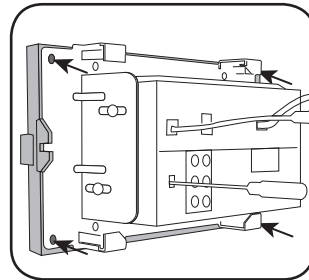


Fig. 2.3

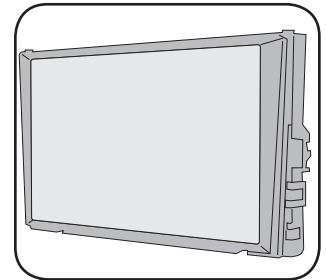


Fig. 3.1

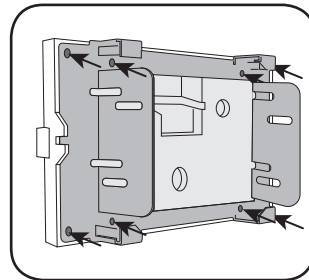


Fig. 3.2

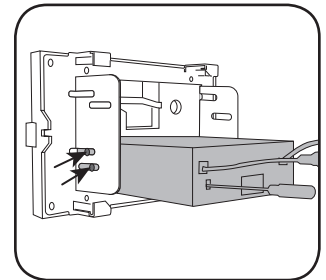


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- If radio connectors are in glove box cavity, route wire harness to dash cavity).

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BROWN/VIOLET wire at pin 5. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.

5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.

6. Make Connections to the back of aftermarket radio:
Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

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

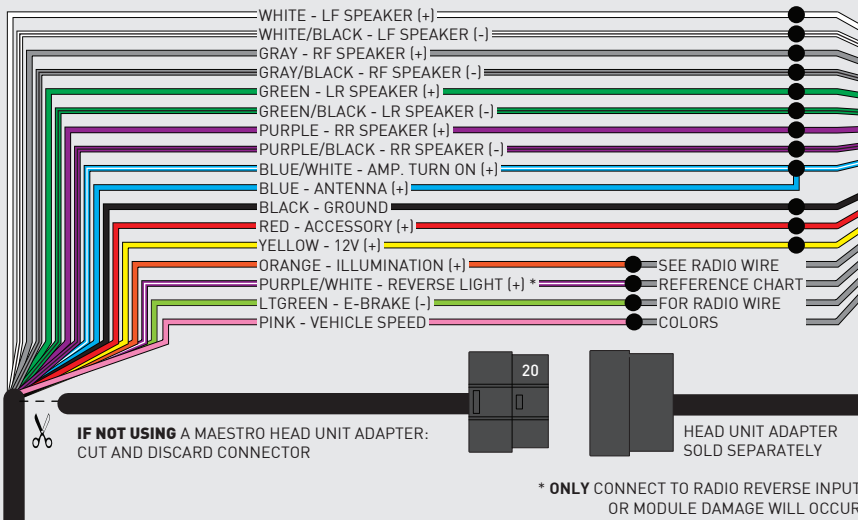
7. Snap VW1 USB adapter into factory USB housing and reinstall into factory location.

8. Assembly is the reverse order of disassembly. After testing, reinstall all panels and bezels.

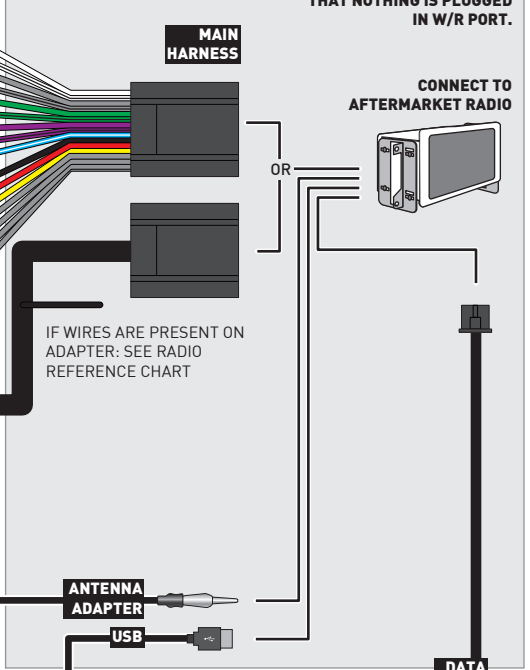
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

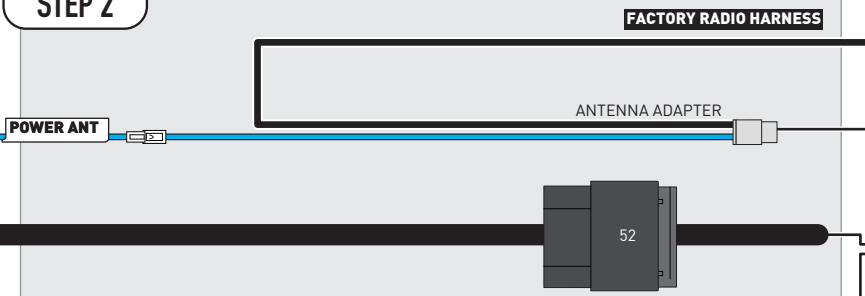
STEP 1



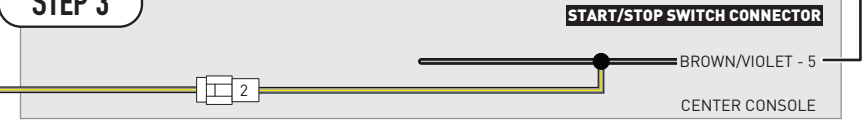
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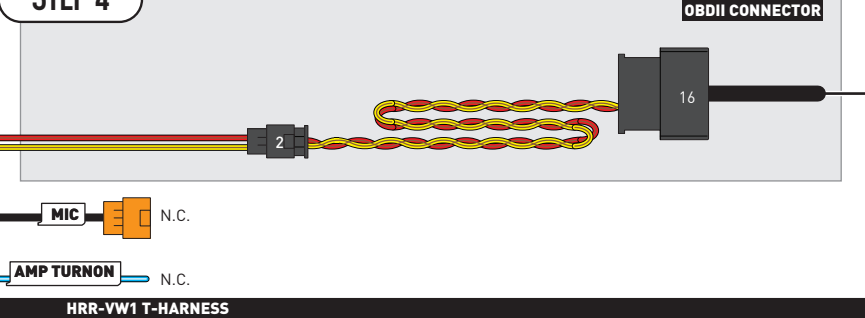
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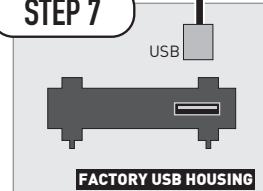
STEP 3



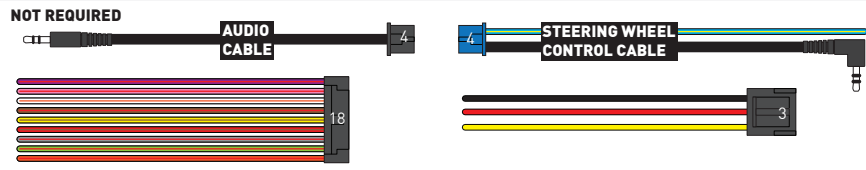
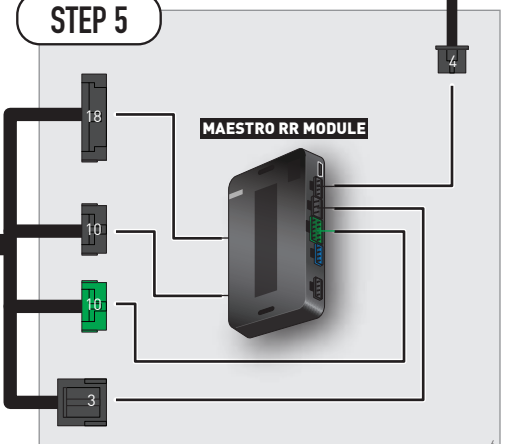
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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, MFD, BACKUP CAMERA AND MORE!



**HEAD UNIT
ADAPTER READY**

PRODUCTS REQUIRED

iDatalink Maestro RR or RR2 Radio Replacement Interface
iDatalink Maestro HRR-VW1 Dash Kit

PROGRAMMED FIRMWARE: VW2-RR-DS

WELCOME

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

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

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

ADDITIONAL INFORMATION AND ACCESSORIES

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

SAT1, SAT2
(Antenna adapter)

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](#)



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INSTALLATION INSTRUCTIONS P1/2

DASH DISASSEMBLY

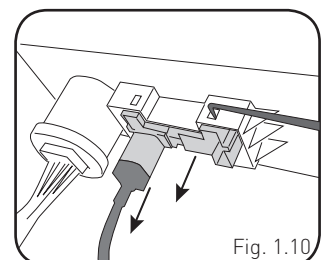
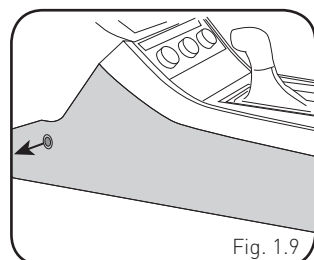
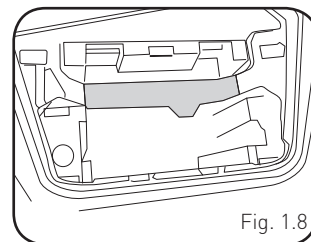
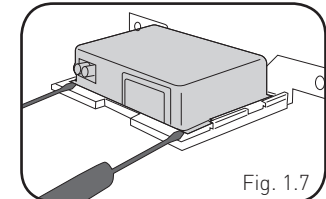
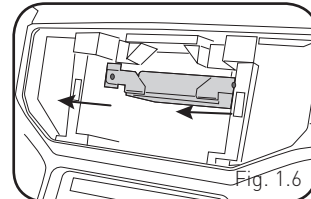
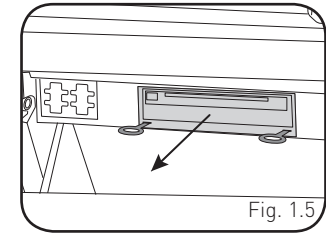
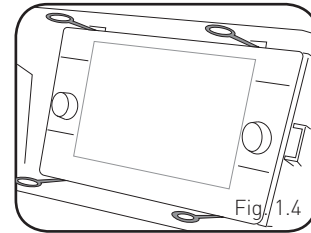
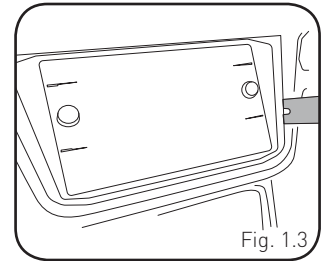
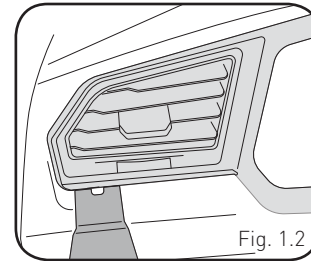
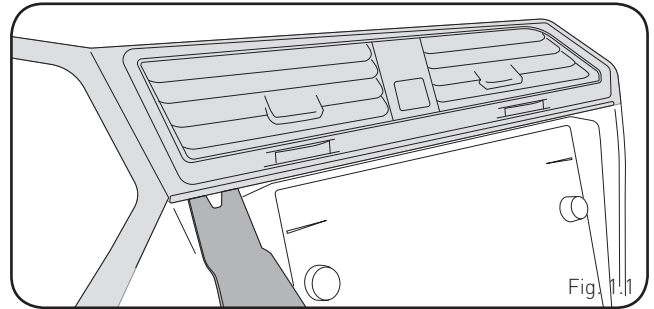
- Using a panel tool, carefully pry outward around the instrument cluster/vent bezel, prying outward around the bezel to release. (Fig. 1.1, 1.2)
- Continue to the radio trim panel prying outward to release the clips securing it in place. (Fig. 1.3)
- Remove the factory radio using the four (4) supplied radio removal tools. Slide them into the top and bottom locations with the tapered side facing inward until they click, then pull them outward to release the clips and remove. (Fig. 1.4)
Disconnect the main wiring harness and antenna connections.
- Open glovebox and locate the factory CD player. Using 2 of the supplied removal tools, remove the CD player in the same fashion the radio was removed. Disconnect main wire harness and all antenna connections. (Fig. 1.5)
- To make room for the aftermarket radio you must relocate the telematics module. Remove the two (2) T25 Torx screws securing the telematics module bracket. Remove from dash. (Fig. 1.6)
Release the 2 clips holding the module to the bracket, and find a secure location in the dash cavity to place the telematics module. (Fig. 1.7)
- To make room for the aftermarket radio, cut out the section of the subdash blocking the radio and brackets. (Fig. 1.8)

USB HOUSING

- Remove single (1) T25 Torx screw located on driver side center console trim. Slide the trim down to release clips. (Fig. 1.9)
- Using a long pick tool press down on the four (4) clips securing the USB housing in place (two on top and two on bottom). Remove and disconnect USB plug. (Fig. 1.10)

Determine which USB mounting option you will be using, depending on the year, model and trim the factory USB housing may differ. On vehicles that have removable USB ports, the factory housing may be reused by swapping to the included USB port. On vehicles where the USB cannot be removed, use the supplied USB housing.

Note: some vehicles may not support either method, requiring a new USB port for Apple Carplay/Android Auto to function.



INSTALLATION INSTRUCTIONS P2/3

If equipped with Start/Stop system

- Using a panel tool, pry outward on the trim panel around the shifter boot, starting at front center. (Fig. 1.11)

Remove two bolts and pull out panel. Disconnect the harness from the start/stop switch. (Fig. 1.12)

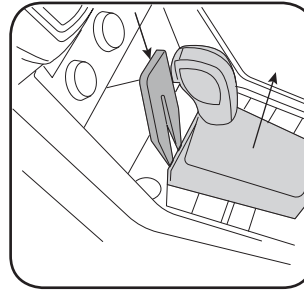


Fig. 1.11

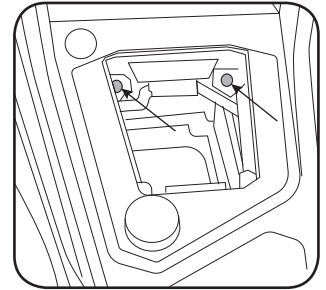


Fig. 1.12

INSTALLING BRACKET

INSTALLING DOUBLE DIN RADIO (shallow depth)

- Unbox the aftermarket radio. Install the metal bracket provided with the VW1 kit to the aftermarket radio using the screws supplied with the aftermarket radio. (Fig. 2.1)
- Place VW1 bezel onto the mounting bracket (Fig. 2.2), securing it with the four (4) Phillips screws included with the VW1 kit. (Fig. 2.3)

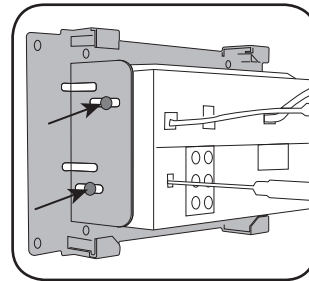


Fig. 2.1

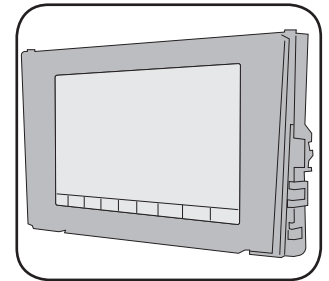


Fig. 2.2

INSTALLING PIONEER MODULAR RADIO

- Place the Pioneer screen into the VW1 bezel. (Fig. 3.1)
- Mount the radio bracket to the back of the VW1 bezel using the (4) four supplied Phillips screws. Secure the screen to the bracket using the hardware provided with the Pioneer radio. (Fig. 3.2)
- Slide the radio chassis into the radio bracket and secure it with the hardware provided with the radio. (Fig. 3.3)

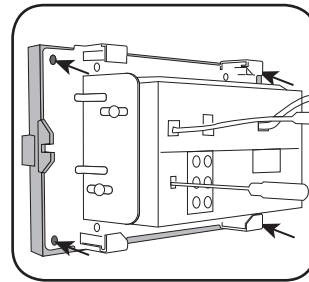


Fig. 2.3

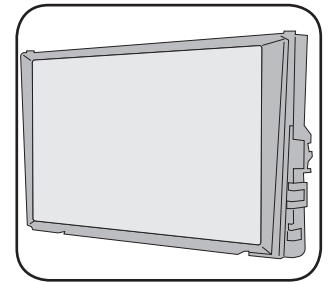


Fig. 3.1

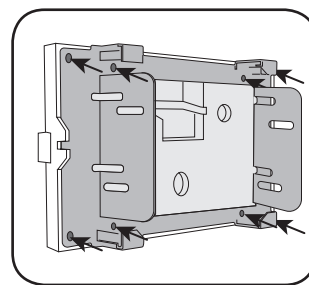


Fig. 3.2

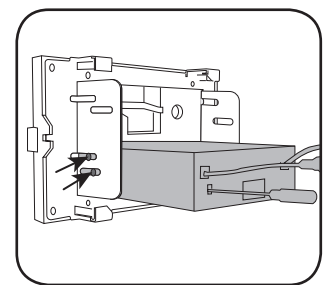


Fig. 3.3

INSTALLATION INSTRUCTIONS P3/3

MAKE CONNECTIONS (REFER TO WIRING DIAGRAM)

1. If using head unit adapter (sold separately), connect HRR-VW1 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 VW1 T-harness and connect the wires, shown in the wiring diagram, from aftermarket radio main harness to the VW1 T-harness and match the wire functions.

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

2. Connect the VW1 T-harness to the radio factory harness.

- Plug in the supplied antenna adapter to the factory antenna connection and connect the blue wire on the adapter to the blue wire on the VW1 T-harness.
- (if radio connectors are in glove box cavity, route wire harness to dash cavity.

3. If equipped with Start/Stop

Route the provided gray/yellow wire to start/stop connector (center console) and attach it to BROWN/VIOLET wire at pin 5. Plug white 2-pin connector to VW1 harness.

4. Route the OBD2 harness to the OBD2 connector located in the driver footwell area.

5. Make all connections to the Maestro module from the VW1 T-harness and 4 pin data connector.

6. Make Connections to the back of aftermarket radio: Plug in main harness, camera, antenna, USB, microphone, and 4-pin data cable.

Press the radio into the dash cavity making sure the 4 clips lock into place.

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

7. Snap VW1 USB adapter into USB housing and reinstall into factory location.

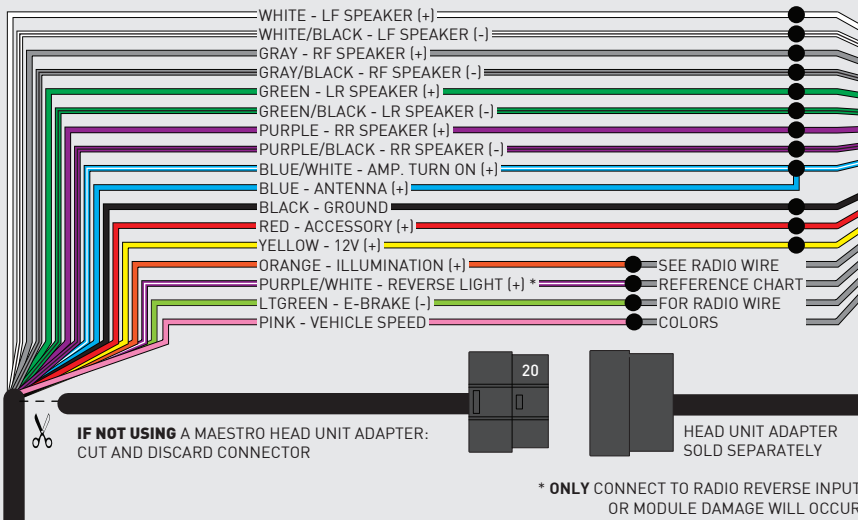
8. Assembly is the reverse order of disassembly. After

testing, reinstall all panels and bezels.

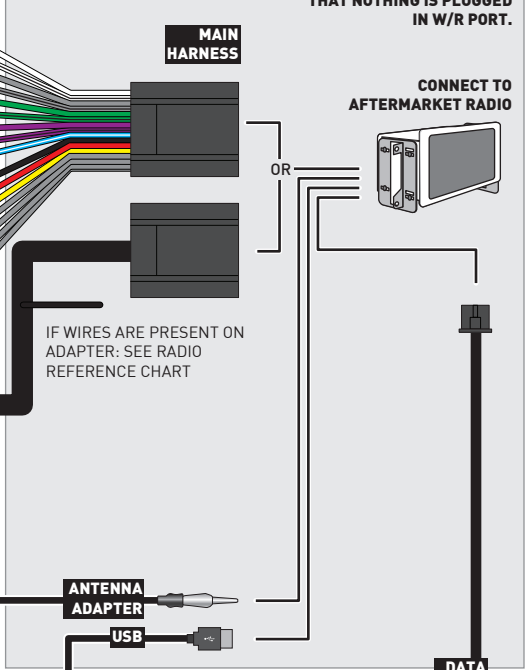
9. Install black insert panel provided with VW1 into opening left by the CD player in glove box (if applicable).

WIRING DIAGRAM

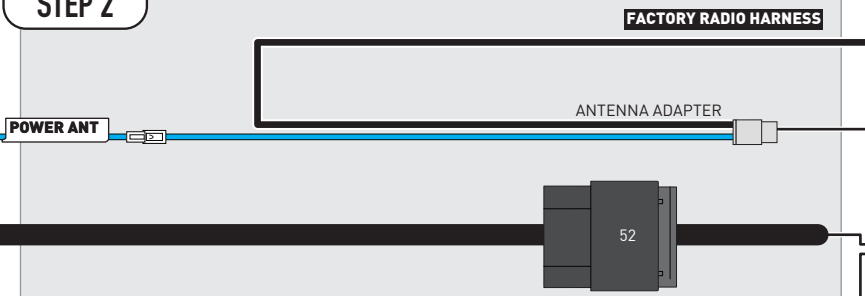
STEP 1



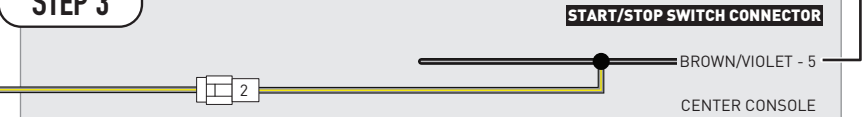
STEP 6



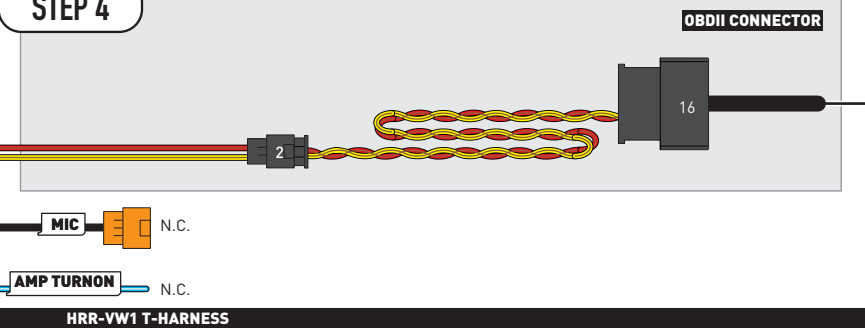
STEP 2



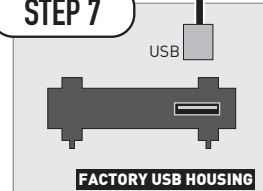
STEP 3



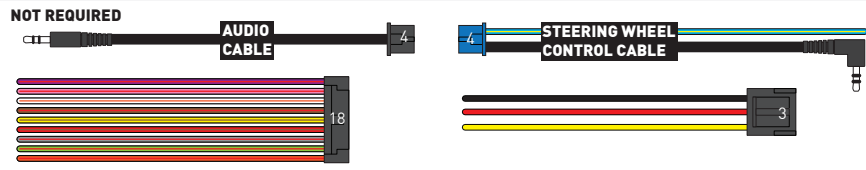
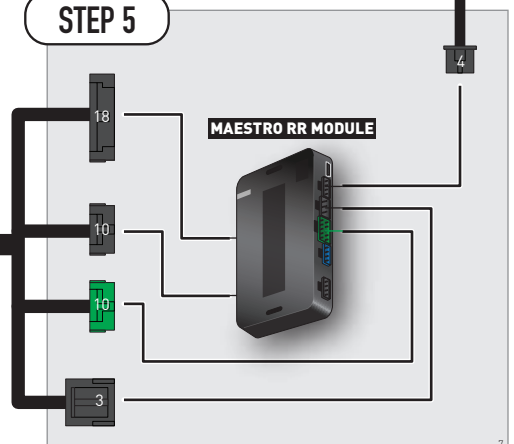
STEP 4



STEP 7



STEP 5



RADIO WIRE REFERENCE CHART

VW1 T-harness Wire Description	Polarity	Wire Color on Maestro T-Harness	Wire Color on Alpine cable	Wire Color on Kenwood/ JVC cable	Wire Color on Pioneer cable	Wire Color on Sony cable
Illumination	(+)	Orange	N/A	Orange/White	Orange/White	Orange
Reverse Light*	(+)	Purple/White	Orange/White	Purple/White	Purple/White	Purple/White
E-Brake	(-)	Lt Green	Yellow/Blue	Lt Green	Lt Green	Lt Green
VSS (vehicle speed sensor)	(DATA)	Pink	Green/White	Pink	Pink	N/A
Power Antenna	(+)	Blue	Blue	Blue	Blue/White	Blue or Blue/White

Head unit adapter wiring (optional accessory, sold separately)

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

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

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

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

MODULE DIAGNOSTICS



LED 1 Module/Firmware status	LED 2 (RR2) Bluetooth activity	LED STATUS	DIAGNOSTIC
● or ●		RED or GREEN flashing	LED flashes 1 or more times, either red or green, when a steering wheel button is pressed : normal operation.
●		1 RED flash	Module has no firmware. Flash module using Weblink Desktop and log in. Do <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.	<p>Ensure OBDII connector is securely attached to the OBD2 connector of the vehicle.</p> <p>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 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.</p>
The light on the Maestro is flashing RED ONCE .	<p>There is no firmware on the module; flash the RR module.</p>
After radio install, the airbag indicator light is ON.	<p>Ensure airbag indicator light is reconnected. Go to settings of the aftermarket radio, OEM setup, Vehicle Features, then select Clear Air Bag Indicator. Light will reset if there isn't a fault with the airbag system.</p>

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.