



# 2020-2021 C8 Corvette WinMax/ProMax Wiring Harness

PART NUMBER: 12-10119-WFR

PART NUMBER: 12-10119-PFR

## INSTALLATION INSTRUCTIONS

This Nitrous Outlet Vehicle Specific Harness is designed specifically for the 2020 and up Chevrolet Corvette with an LT2 engine. If you need any assistance during installation or if you have questions about this wiring harness, call our Tech Help Line at (254) 848-4300.

### Tools Needed for Installation\*:

- 7mm Socket
- 10mm Socket
- 13mm Socket
- 15mm Socket
- 21mm Socket
- T-15 Torx Bit
- T-30 Torx Bit
- Ratchet
- 12" Extension
- 1" Hole Saw
- 2" Hole Saw
- Drill
- Trim Tool

### Additional Materials Needed for Installation:

- Electrical Tape
- Lifting Blocks
- Floor Jack
- Jack Puck
- Wiring Materials

**\*These are the tools required for installation of this kit on a stock vehicle. If your vehicle has aftermarket parts, other tools may be required.**



### Step 1 – Disconnect the Battery

- Open the front storage compartment.



- Remove the trim panels on each side of the vehicle by pulling them from the clips securing them to the body.



- Remove the cowl panel covering the battery by pulling it from the clips securing it to the body.



- Using 10mm socket, loosen the nut and remove the negative battery terminal.

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### INSTALLATION INSTRUCTIONS



- Remove the cover over the positive terminal and remove the nut from the terminal with a 10mm deep socket.



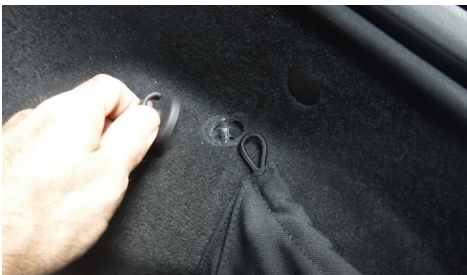
#### Step 2 – Vehicle Disassembly

##### FRONT STORAGE COMPARTMENT

- Remove the front trim panel from the front storage area by pulling it from the clips securing it to the body.



- Using a T-30 Torx bit, remove the 4 screws from the front storage bin.



- Unscrew the 2 rear tabs holding the storage net.



- Unplug the front storage light/power port connector.

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### INSTALLATION INSTRUCTIONS



- Remove the front storage bin from the vehicle.



- Using a 13mm socket and 12" extension, remove the bolt under the brake fluid reservoir.



#### INTERIOR

- Open the driver door.



- Remove the side trim panel from the center console by pulling it away from the console.



- Pull back the carpet on the console between the seat and the accelerator.

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### INSTALLATION INSTRUCTIONS



- Remove the aluminum tape covering the hole in the center console.



- Remove the speaker cover at the top of the console between the seats by lifting it up. It will release from the clips securing it to the body.



- Pull the rear console cover forward and it will release from the clips securing it to the body. You must unplug the speaker and phone charger connectors before removing the cover from the vehicle.



- Pull back the carpet covering the interior fuse box.



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### INSTALLATION INSTRUCTIONS



- Remove the cover of the interior fuse box.



#### ENGINE BAY

- Open the engine compartment.

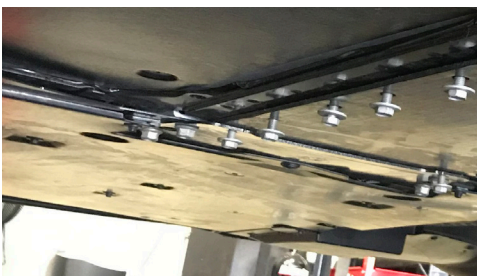


#### CHASSIS TUNNEL

- You will need to lift the vehicle off the ground to remove the under-car panels. It is recommended to use an automotive lift. For the do-it-yourself install, use a floor jack with a jack puck and place lifting blocks under all 4 tires.



- Locate the center panel that runs the length of the car. At the rear of that panel is a smaller metal panel with 6 bolts. Using a 15mm socket, remove the 4 rear bolts on that panel. Using a 21mm socket, loosen the 2 largest bolts. The panel should slide rearward and drop off the vehicle.



- At the front of the center panel is another small metal panel. Using a 15mm socket, loosen the bolts holding this panel.

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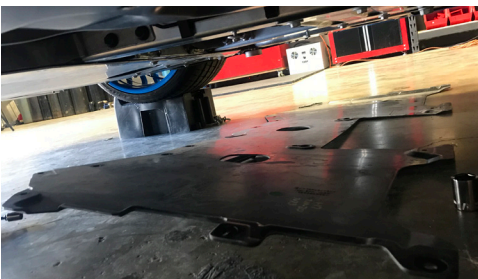
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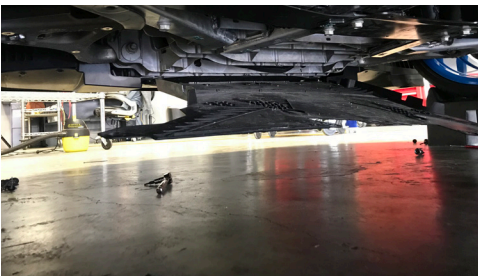
### INSTALLATION INSTRUCTIONS



- Using a 13mm socket, remove the bolts from the center panel and remove the panel from the vehicle.



- Using 10mm, 13mm, and 15mm sockets, remove the rear panel from the vehicle.



- Using 7mm socket and T-15 Torx, remove the front panel from the vehicle.



### Step 3 – Harness Installation

- Place the harness assembly on the ground beside the car. The bottle accessory and fuse panel wiring will run to the front of the vehicle.

*ProMax electronics bracket shown.*



- In the chassis tunnel, use a 10mm socket and extension to remove the 4 bolts holding the HVAC tubing clamps bolts. You will need these bolts to install the electronics panel.

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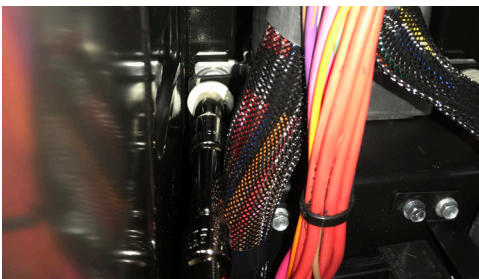
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### INSTALLATION INSTRUCTIONS



- Starting at the center of the tunnel under the car, route the switch panel, controller/display, and 12V Switched wiring through the hole in the driver side of the chassis tunnel.



- Using the HVAC clamp OEM hardware (2 steps above), 10mm socket and extension, install the electronics bracket in the chassis tunnel with the controller and relay bracket on the passenger side of the car.

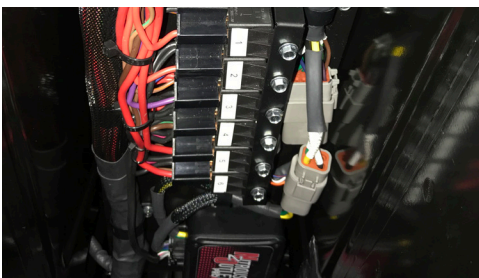


- Route the bottle opener, heater, sensor wiring, fuse panel wiring, and battery connection toward the front of the car beside the HVAC piping.

*ProMax electronics bracket shown.*



- Pull the harness to the driver side of the car and over the HVAC tubing into the area of the front storage compartment.



- Route the ECU, dedicated tank, and solenoid wiring to the rear of the car past the ECU and up the firewall.

*ProMax electronics bracket shown.*

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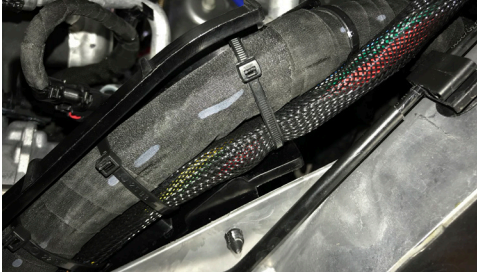


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### INSTALLATION INSTRUCTIONS



- Use the installation guide in the back of these instructions to put the connectors on your solenoids. After the connectors are installed, plug them into the leads of the wiring harness. There will be separate leads labeled 'Nitrous', 'Fuel', and 'Purge'.

- Route the wires for the dedicated fuel system up the firewall, through the rear passenger wheelwell, and to the dedicated fuel tank. Use the installation guide in the back of these instructions to put the connector on your fuel pump wires. After the connector is installed, plug them into the connector on the wiring harness.

- On the driver side of the center console compartment, an access hole needs to be placed as far forward and as high as possible. Before drilling, remove the switch panel as not to damage it or any switches. Using a 1" hole saw, drill the access hole.

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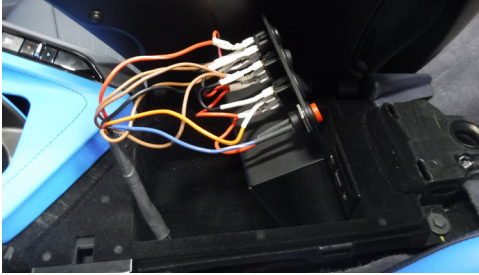


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### INSTALLATION INSTRUCTIONS



- Route the wires for the switch panel along the driver side of the center console, then through the 1" hole and to the back side of the panel, connect them per the harness diagram.



- Without pulling the wires from the switches, pull the wiring through the hole in the side of the console until the switch panel is completely on the bottom of the console. Make sure that the console lid does not activate any of the buttons.



- Route the **ProMax** Controller Display Screen or **WinMax** Controller cable along the console. Using a 1" hole saw, drill an access hole.



#### ProMax only:

- Route the cables for the ProMax Controller Display Screen along the driver side of the center console, then through the 1" hole and plug it in to the display.



#### WinMax only:

- Route the WinMax Controller wiring along the driver side of the center console and to the 1" hole. Pull the wiring from the WinMax controller from the inside of the center console, through the 1" hole. Using the provided 22-18GA Brazed Butt Connectors and heat shrink, connect the controller leads to the wiring harness with the diagram below.

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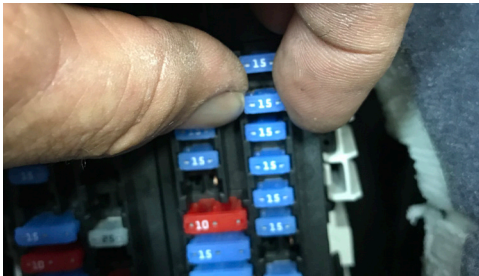
## INSTALLATION INSTRUCTIONS

### WINMAX CONTROLLER

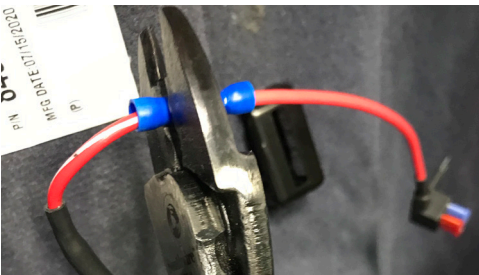
FROM CONTROLLER		-----CAR HARNESS	
RED WIRE 18GA		12 V ARM SWITCH	16GA ORANGE
BLACK WIRE 18GA		BATTERY GROUND	16GA BLACK
GREY WIRE 18GA		TACH SIGNAL	16GA PURPLE/WHITE
WHITE WIRE 18GA		TPS SIGNAL	16GA GREEN/WHITE
BLUE WIRE 18GA		STAGE 1	16GA GREEN/ORANGE
GREEN WIRE 18GA		TIMING 1 OUTPUT	16 GA WHITE/BLACK
ORANGE WIRE 18GA		STAGE 2	16GA YELLOW/BLUE
YELLOW WIRE 18GA		TIMING 2 OUTPUT	16GA BLUE/RED



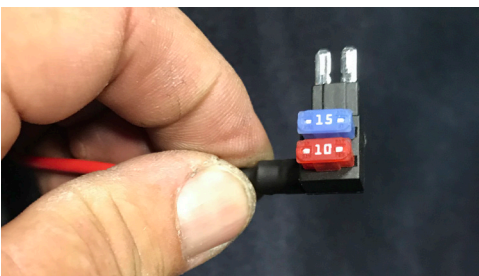
- Route the 12v Source wire along the center console, under the carpet, up to the fuse panel.



- Remove the 15a fuse in position #2.



- Using a wire crimper, connect the provided fuse tap to the labeled harness wire.



- Insert the OEM 15a fuse into the fuse tap.

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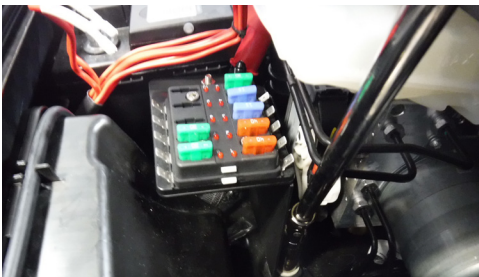
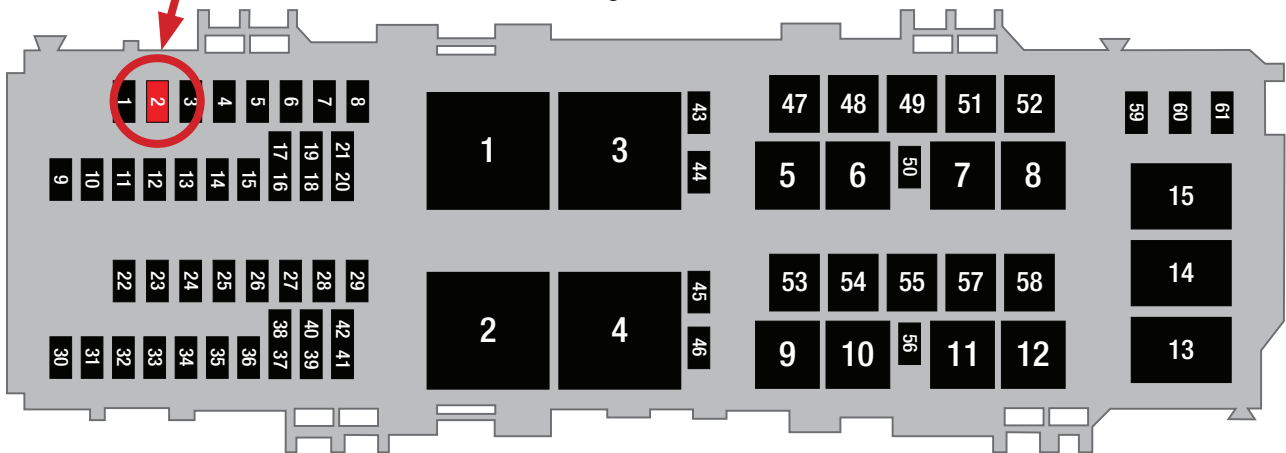
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## INSTALLATION INSTRUCTIONS



- Insert the fuse tap into position #2 on the fuse panel.

C8 Corvette Fuse Panel Diagram on Bulkhead Between Seats



- Just behind the front storage compartment, install the Fuse Panel Mounting Bracket with the OEM bolt and 13mm socket making sure to place the provided spacer between the bracket and the vehicle.

*ProMax fuse panel shown.*



- Connect the fuse panel wiring per the diagram provided.

*ProMax fuse panel shown.*

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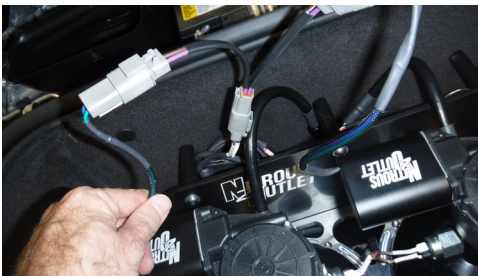
### INSTALLATION INSTRUCTIONS



- Using a 2" hole saw, drill a hole on the back of the front storage compartment, centered just above the sensor.



- Replace the front storage compartment in the front of the vehicle while directing the bottle accessory wiring through the 2" hole from the previous step.



- Plug in the bottle openers and heaters.



#### For ProMax:

- Plug in the fuel pressure sensor.

#### For WinMax:

- Remove the jumper wire on the terminal ends of the fuel pressure safety switch wires then plug in the fuel pressure safety switch.

**\*\*Note:** If you are not using a fuel pressure safety switch, leave the jumper wire connecting the terminals for the switch.

- If using a timing retard controller, connect the retard output to the controller.



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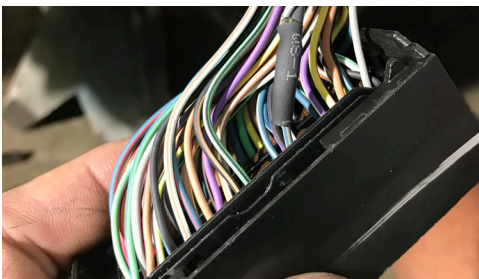
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## INSTALLATION INSTRUCTIONS



- In the chassis tunnel, unplug the E4 connector on the ECU. This is the rear most connector.



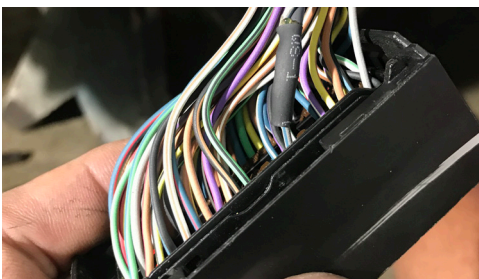
### ProMax only:

- Pin into ECM per pinout diagram.

Tachometer – J4 connector – Pin 29 at ECM  
TPS – J1 connector – Pin 39 at ECM  
MAP – J4 connector – Pin 58 at ECM  
Wideband – Requires aftermarket wideband controller

- Steps to use when working with ECM and Sensor connection points.

1. Locate the proper wire.
2. Isolate wires from harness
3. Cut wires
4. Slide heat shrink over wire
5. Soldier wires.
6. Slide heat shrink down and melt



### WinMax only:

- Pin into ECM per pinout diagram.

Tachometer – J4 connector – Pin 29 at ECM  
TPS – J1 connector – Pin 39 at ECM

- Steps to use when working with ECM and Sensor connection points.

1. Locate the proper wire.
2. Isolate wires from harness
3. Cut wires
4. Slide heat shrink over wire
5. Soldier wires.
6. Slide heat shrink down and melt



- Using a 10mm socket, connect the wire between the fuse panel and the positive battery cable.



- Using a 10mm socket, connect the ground wire to the negative battery cable.

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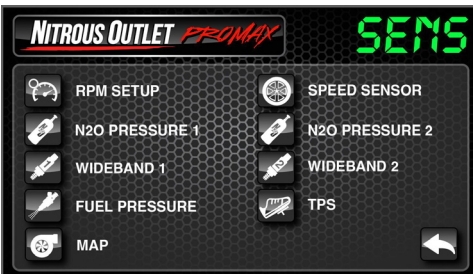
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## INSTALLATION INSTRUCTIONS



### Step 4 – Final Check Over

- Reconnect the battery.



- Verify that tachometer, TPS and MAP function properly.



### Step 5 – Final Assembly

- Under the car, reinstall the front panel.



- Under the car, reinstall the rear panel.

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### INSTALLATION INSTRUCTIONS



- Under the car, reinstall the center panel.



- Under the car, reinstall both small metal panels.



- In the front storage compartment, reinstall the 2 net tabs.



- Reinstall the 4 mounting screws.



- Reconnect the front storage light/power port connector.

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### INSTALLATION INSTRUCTIONS



- Reinstall the 4 trim panels around the front storage compartment.



- Inside the vehicle, reinstall the fuse panel cover.



- Place the carpet over the fuse panel.



- Reinstall the rear console cover. Plug in the phone charger and speaker.



- Reinstall the speaker cover.

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### INSTALLATION INSTRUCTIONS



- Push the carpet back in place on the side of the center console then reinstall the side console panel.

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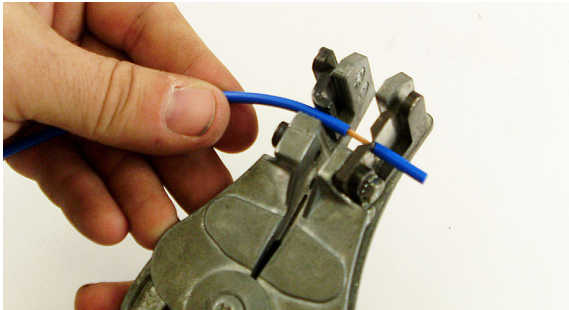


# Deutsch Connector Assembly Instructions

## INSTALLATION INSTRUCTIONS

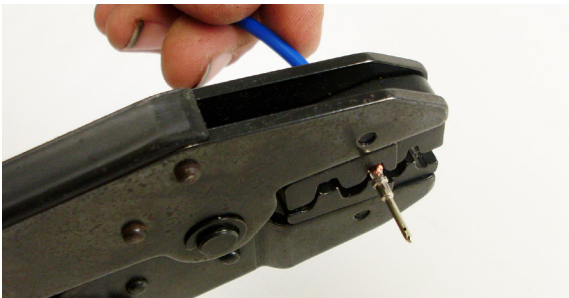
### Deutsch Connector Assembly:

To assemble Deutsch terminal ends you can use a special crimper, or if done cautiously, this can be done with a pair of needle nose pliers.



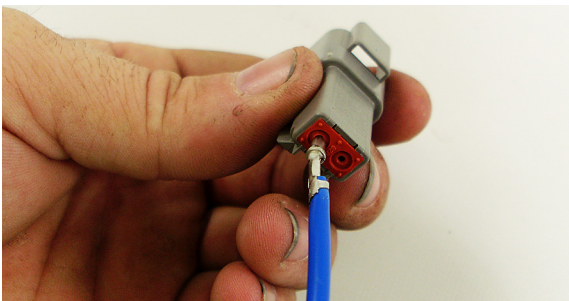
#### Step 1:

Strip the end of the wire you want to place the connector on about 3/8".



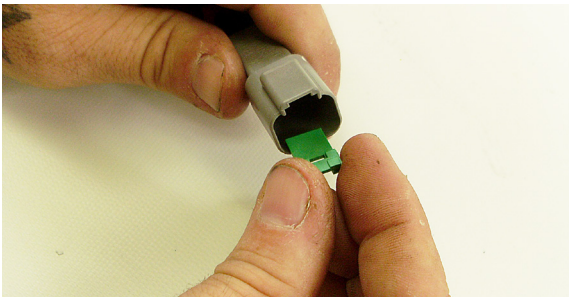
#### Step 2:

Using a crimp tool or needle nose pliers, crimp the connector down. First the smaller crimp and then the larger crimp, make sure the weather pack seal gets crimped with the larger side.



#### Step 3:

Once your sure you have a good crimp slide the pins into the connector housing being sure to match the wires correctly on each side. Push the pin in the housing until you feel a positive click and the wire cannot be pulled back out of the connector.



#### Step 4:

Install the provided pin retainer lock in the connector body. It simply snaps in to place.

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