



# 2020-2021 C8 Corvette Trunk Dedicated Fuel System

PART NUMBER: 00-12019

## INSTALLATION INSTRUCTIONS

This Nitrous Outlet Vehicle Specific Trunk Dedicated Fuel System is designed specifically for the 2020-2021 Chevrolet C8 Corvette with an LT2 engine. If you need any assistance during installation or if you have questions about this plate system, call our Tech Help Line at (254) 848-4300.

### Tools Needed for Installation:

- 7mm Socket
- 10mm Deep Socket
- 19mm Socket
- 7/16" Socket
- T-15 Torx Bit
- Ratchet
- 3/4" Wrench
- 5/16" Allen Wrench
- 5/16" Drill Bit
- 1" Hole Saw
- Drill
- Center Punch
- Trim Tool
- Tape Measure
- 7/16" Wrench
- 11/16" Wrench

### Additional Materials Needed for Installation:

- Floor Jack
- Jack Puck
- Jack Stand

*\*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.\**

### Pre-Installation Tips:

- Adding a Fuel Pressure Safety Switch will prevent the nitrous system from activation in the event fuel pressure drops.  
Low Pressure Part # 00-60000 High Pressure Part # 00-60001
- A Fuel Pressure Gauge is needed as a visual reference for fuel pressure.  
Low Pressure Part # 00-63003 High Pressure Part # 00-63004
- A mild grade (Blue)Loctite is recommended on straight threads such as the ones on the regulator (3/8NPT).
- This fuel system is designed to work in conjunction with pump gas, E85 and most race gas. Not for use with alcohol or methanol.
- Some Fuels with a high ethanol content may cause the lid gasket to swell causing a situation to where removing the lid can be difficult.



### 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 main panel covering the battery by pulling it from the clips securing it to the body.

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## INSTALLATION INSTRUCTIONS



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

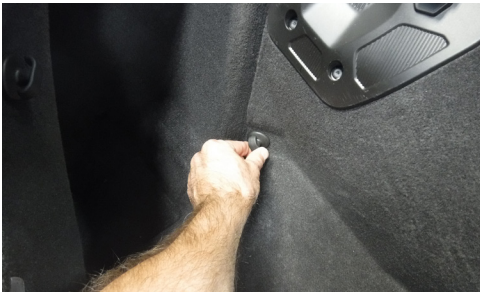


### Step 2 – Vehicle Disassembly ENGINE BAY & REAR STORAGE COMPARTMENT

- Open the engine compartment.



- Remove the weatherstripping from the rear luggage compartment.



- Unscrew the 4 tabs holding the storage net.



- Using a trim tool, remove the 4 trim buttons at the bottom of the luggage compartment.

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## INSTALLATION INSTRUCTIONS



- Using a T-15 Torx bit, remove the 4 screws from each of the upper roof panel receiver.



- Remove the luggage compartment liner from the vehicle.



### LEFT REAR FENDER WELL

- Using a floor jack with a jack puck lift the left rear of the vehicle. Using a 19mm socket, remove the left rear wheel from the vehicle. Be sure to fully support the weight of the vehicle with a jack stand.



- Using a T-15 Torx, 7mm socket and trim tool, remove the mud guard and the inner fender liner.



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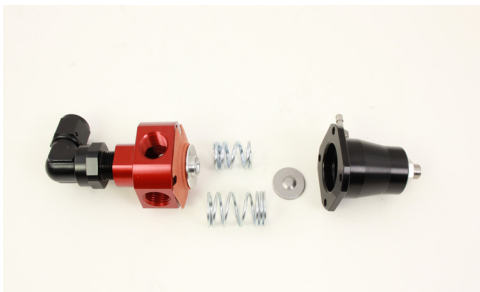
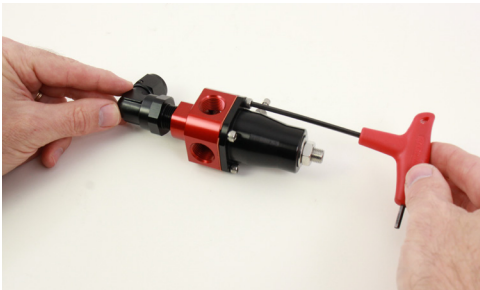
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## INSTALLATION INSTRUCTIONS



### Step 3: Tank Installation

- Using a 5/16" Allen wrench, install the 3/8"NPT hex plug on the side of the fuel pressure regulator opposite the tank. Use blue Loc-tite on the fittings NPT threads.
- Using a 3/4" wrench, install the 3/8"NPTx6AN straight fitting in the remaining port of the fuel pressure regulator. Use blue Loc-tite on the fittings NPT threads.
- This fuel system is capable of supporting high or low fuel pressure. The fuel regulator currently has the low pressure spring installed. It is designed to supply 3 - 20 psi. If your application requires high fuel pressure you will need to install the supplied high pressure spring. It is designed to supply 20 - 65 psi.

To swap the regulator spring, use a 9/64" Allen wrench to remove the 4 cover screws.

- Remove the top cover exposing the diaphragm, spring and retainer. Swap the spring and reassemble.

**Note:** Make sure the retainer has the nipple side to the spring.

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## 2020-2021 C8 Corvette Trunk Dedicated Fuel System

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### INSTALLATION INSTRUCTIONS



- Place the tank on the far-left side of the trunk. Using a center punch, mark both mounting bracket locations.



- Remove the tank from the trunk. Using a 5/16" drill bit, drill both mounting locations.



- In the wheel well, just above the stepped section of the trunk compartment and as far towards the driver's side of the vehicle as possible, use a 1" hole saw, drill a hole for the vent hose and fuel pump wiring.

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### INSTALLATION INSTRUCTIONS



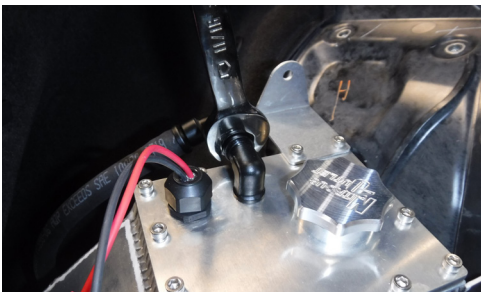
- In the trunk, measure inward 3/4" from the silver button.



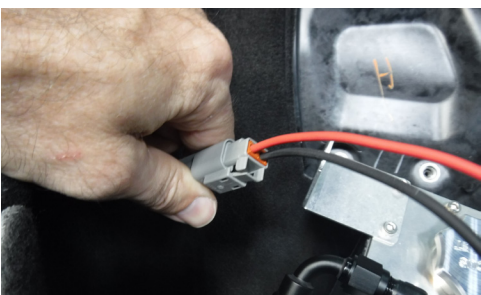
- Using a 1" hole saw, drill a hole for the fuel supply hose.



- Assemble the vent hose assembly by, pushing the supplied 36" long black Vent hose onto the barbed end of the 90° Push-Loc fitting.



- Place the tank back in the vehicle. Using an 11/16" wrench, connect the fuel vent hose. Route the hose through the drilled hole.



- Using the supplied Deutsch connector, connect the wiring for the fuel pump. (See page 13 for connector assembly instructions) Connect the wires for the dedicated fuel system to the dedicated fuel tank.

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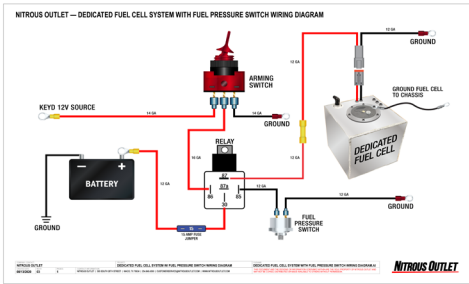
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## INSTALLATION INSTRUCTIONS



- Use the diagram to the left when hooking up your dedicated fuel system. Instructions for this procedure can be found in the back of these instructions on page 12.



- Using a 7/16" wrench (wheel well) and socket (trunk), install the tank with the provided hardware.



- Install the supplied 6AN straight hose end to one end of the fuel feed hose.

*\*\*See Page 14 for Hose End Assembly instructions.*



- Starting in the wheel well, route the fuel supply hose through the 1" access hole and finger tighten the fuel feed line between to the fuel pressure regulator.

*\*\*Shown with optional Fuel Pressure Sensor - P/N 00-61002-FPS*



- Route the fuel feed hose through the wheel well, to the engine firewall, up between the valve cover and intake manifold, to the fuel solenoid. Make sure the feed hose clears the fender liner, suspension, exhaust and any sharp edges.

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### INSTALLATION INSTRUCTIONS



- Cut the hose to length and install the 6AN 90° hose end.



- Loosen the hose end at the fuel regulator and blow the hose out with compressed air.



- Using an 11/16" wrench, connect the fuel line to the regulator and solenoid.



- Route the vent line away from the exhaust and down to the bottom of the vehicle. Using a 10mm socket, connect the vent line to the bottom rear panel with the provided clamp.



#### Step 4 – Final Check Over

- Reconnect the battery.

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## INSTALLATION INSTRUCTIONS



- Fill the fuel tank with fuel, arm the fuel pump to verify it works and check for any leaks.

**Note:** Activating the fuel pump with no fuel will burn up the pump.



### Step 5 – Final Assembly

- Reinstall the left rear fender liner.



- Reinstall the left rear mud guard.



- Reinstall the left rear wheel.



- Reinstall the 3 trim panels around the front storage compartment.

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### INSTALLATION INSTRUCTIONS



- Reinstall the luggage compartment liner.



- Reinstall the upper roof panel receivers.



- Reinstall the 4 trim buttons at the bottom of the luggage compartment.



- Reinstall the 4 tabs for the storage net.



- Reinstall the weatherstripping for the rear luggage compartment.

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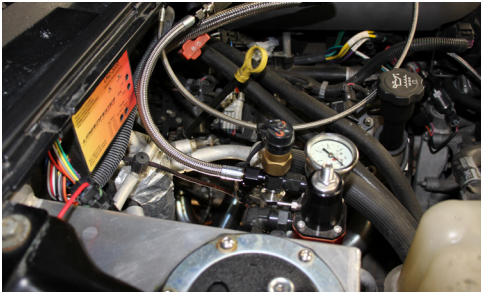
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## 2020-2021 C8 Corvette Trunk Dedicated Fuel System

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### INSTALLATION INSTRUCTIONS



#### Step 6 – Setting Fuel Pressure

- To set the regulated fuel pressure you will need to reference back to the nitrous systems jetting card. Pick the desired fuel pressure that matches the fuel jet you chose. The most accurate way to set the fuel systems fuel pressure is to set the flowing pressure. In order to do this you will need a flow tool kit. The flow tool kit uses a certified accurate gauge and places the flow restriction jet at the end of the fuel system feed hose.

(The Nitrous Outlet Certified Fuel Pressure Test Gauge kit is part # 00-63010.)



- Using a 9/16" wrench, loosen the nut at the top of the fuel pressure regulator. Using a 3/16" Allen wrench, adjust the set screw to achieve the desired fuel pressure. Turn the Allen wrench to the right to increase pressure. Turn the Allen wrench to the left to decrease pressure. Once the pressure is set, use the 9/16" wrench to tighten the nut to lock the set screw in place.



#### Conclusion:

- You have finished your installation.

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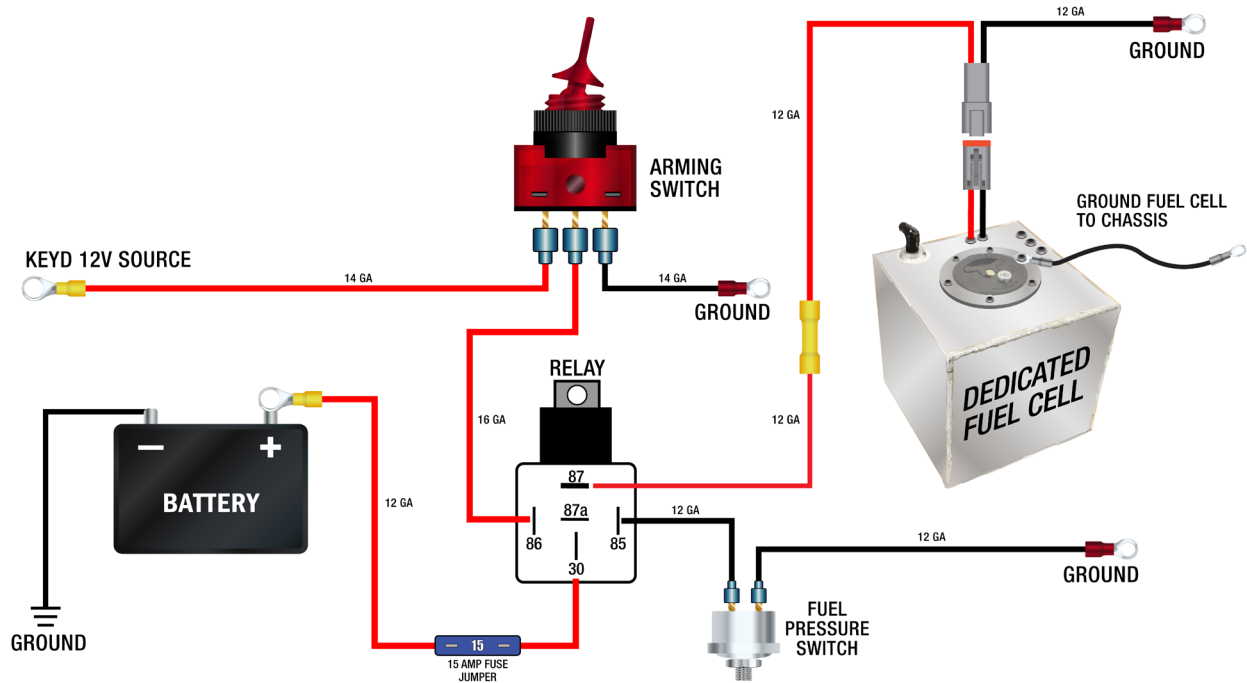


# Dedicated Fuel Cell Wiring Diagram

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## INSTALLATION INSTRUCTIONS

NITROUS OUTLET — DEDICATED FUEL CELL SYSTEM WITH FUEL PRESSURE SWITCH WIRING DIAGRAM



COMPANY / CONTACT NITROUS OUTLET	PROJECT DEDICATED FUEL CELL SYSTEM W/ FUEL PRESSURE SWITCH WIRING DIAGRAM	FILENAME DEDICATED FUEL CELL SYSTEM WITH FUEL PRESSURE SWITCH WIRING DIAGRAM.AI
DATE / ISSUE / REV 08/13/2020 / 03	PAGES 1	CONTACT INFORMATION NITROUS OUTLET   305 SOUTH 28TH STREET   WACO, TX 76704   254.848.4300   CUSTOMERSERVICE@NITROUSOUTLET.COM   WWW.NITROUSOUTLET.COM
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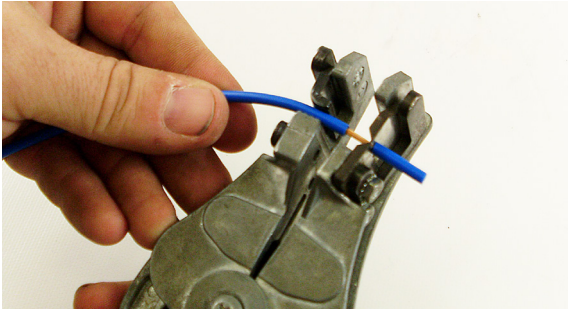


## Deutsch Connector Assembly Instructions

### INSTALLATION INSTRUCTIONS

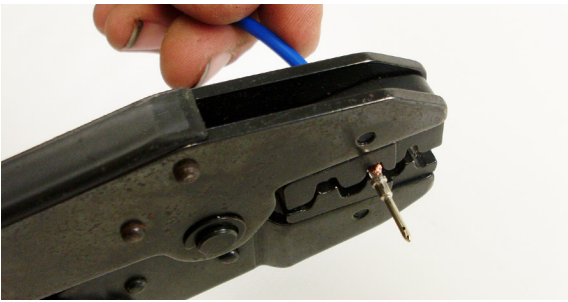
#### Deutsch Connector Assembly:

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.



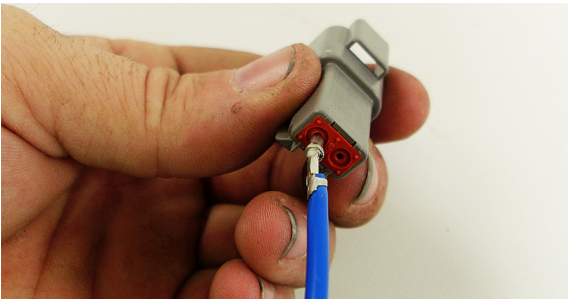
#### Step 1:

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



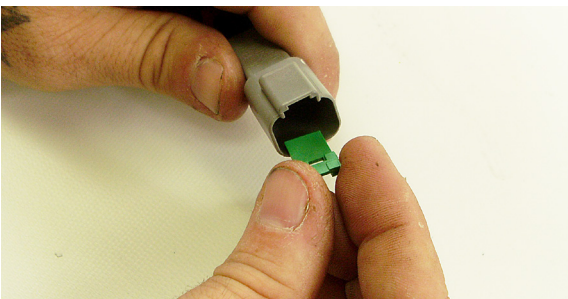
#### Step 2:

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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## PTFE Hose End Installation Instructions

### INSTALLATION INSTRUCTIONS

#### Tools Needed for Installation:

- 2 - 3/4" Wrenches
- These instructions will work with straight, 45° and 90° hose ends



- Put the female side of the hose end onto the fuel hose.



- Put the inner sleeve of the fitting on the end of the hose with the tapered end over the Teflon inner liner.



- Insert the male end into the open end of the hose.



- Using two 3/4" wrenches, thread the male and female ends together.

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