



2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS

This Nitrous Outlet vehicle specific plate system is designed specifically for the 2017-2021 Chevrolet Camaro ZL1. 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 Deep Socket
- 10mm Deep Socket
- Ratchet
- 3/8" Wrench
- 7/16" Wrench (2)
- 9/16" Wrench
- Body Tool
- 11/16" Wrench
- 13/16" Wrench
- T30 Torx bit
- T50 Torx bit
- Razorblade
- Drill
- 5/16" Drill Bit
- Center Punch
- Marker
- 3/16" Allen Wrench
- 5/16" Fuel Disconnect Tool
- Flat Head Screwdriver
- 1-1/4" Hole Saw

*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 – Vehicle Disassembly and Battery Disconnection

- Slide the passenger side front seat forward.



- Remove two T50 Torx bolts at the rear of the seat tracks.



- Recline the passenger side front seat and slide the seat back before disconnecting the battery.

IMPORTANT: All appropriate safety equipment (gloves, tools etc.) must be used during the installation of this product(s). Nitro Dave's LLC accepts NO responsibility for injuries resulting in the installation of any product(s). Nitrous oxide is for off-road use only.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



Step 1 – Vehicle Disassembly and Battery Disconnection

- Open the trunk of your vehicle and remove the floor/spare tire cover.



- Using a 9/16" wrench, remove the 4 panel nuts holding the plastic panel at the rear of the trunk.



- Pull the bottom of the panel forward then pull up to remove it from the vehicle.



- Using a body tool, remove 3 of the push pins holding in the passenger side panel covering the battery.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- From the back seat, lift the reclined front seat back and slide the front passenger seat assembly back to remove it from the vehicle. If your vehicle has a power passenger seat, remove the front cover on the front of the seat and disconnect the large yellow plug on the floorboard.



- Using a body tool, remove the plug harness clips from the seat frame.



- To get the seat belt unbolted lean the seat towards the console and you will see the T50 Torx to loosen. Unclip the spring-loaded connector protector to show the seatbelt sensor. Pull up on the orange safety clip and the connector will come unplugged.



- Slide the seatbelt out and remove the seat from the vehicle.

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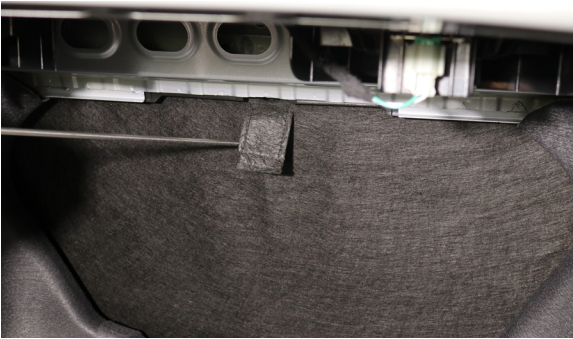
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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Remove the rear seat back by pulling the strap on top of the seat then lifting from the bottom corners. It will slide up out of its slots.



- Remove the rear seat bottom by lifting the front of the seat in the middle of each seating position. Removing the cushion takes considerable force. There is a possibility that the clip will break.



- Remove the center panel behind the rear seat back by removing the two push pins with a body tool.



- Remove the additional push pins from the trunk side panel and remove it from the vehicle.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



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



- Unclip and remove the passenger side door sill/kick panel.



- Remove the front passenger side carpet by removing the push pin with the body tool. The carpet will lift out.



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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Remove the push pin on the passenger side holding the backseat carpet and roll the carpet up toward the center console.



- Remove the electronics panel in the passenger footwell using a 7mm deep socket. There are 4 screws that are difficult to see. Unplug all devices and remove the panel from the vehicle.



- Locate the battery's main power cable that routes through the passenger side footwell. There is a plastic clip holding it to the firewall. Drill a 1 1/4" hole to the right of the clip between the main power cable and the main wiring harness making sure not to drill through the large grommet for the harness. It is recommended that you trim back the insulation before drilling.
- **If you are installing the optional Pro Wiring Harness you will need to install it prior to Step 11**

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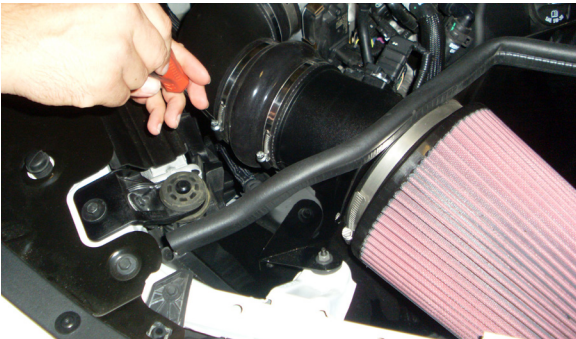
2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

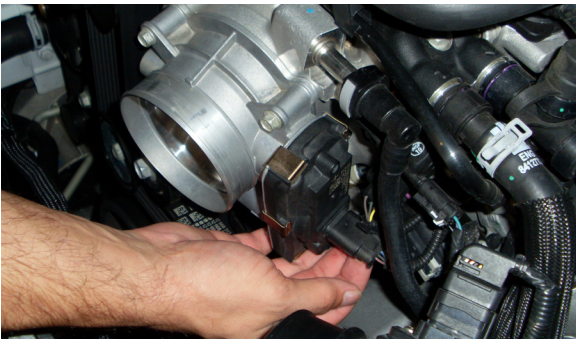
INSTALLATION INSTRUCTIONS



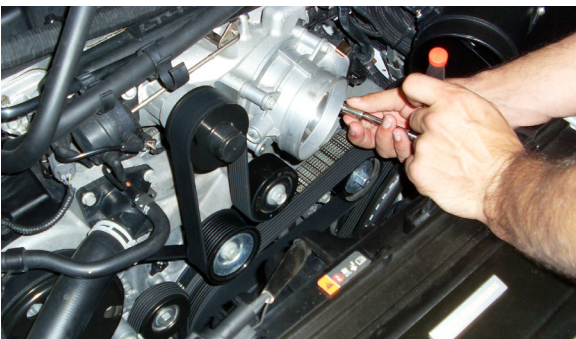
- Disconnect the PCV hose.



- Using a flathead screwdriver, loosen the hose clamps on the intake tube then remove the tube from the vehicle.



- Disconnect the TPS sensor.



- Using a 10mm deep socket and ratchet, remove the 4 throttle body bolts.

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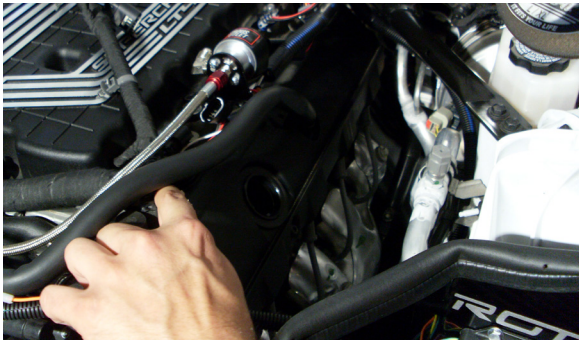
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2017-2021 Camaro ZL1 Plate System

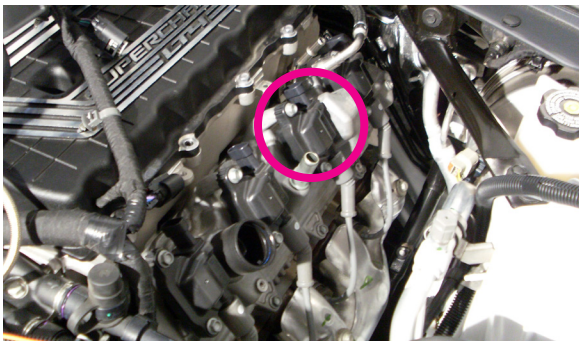
PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



Step 2 – Fuel Adapter Installation

- To utilize the stock fuel system you will need to install the fuel feed adapter. Using a T30 Torx bit remove the 2 bolts holding the coil cover, remove the oil cap, then lift the cover to access the PCV hose. Disconnect the PCV hose from the valve cover by pushing the hose down, pushing in clip, and pulling up. Remove the cover from the engine bay and replace the oil cap to prevent anything from falling in to the engine.



- Remove the two 10mm bolts holding the #5 coil pack to the valve cover.



- Using a 5/16" fuel disconnect tool, push the fuel feed hose down and pull the disconnect up into the feed hose. Now pull up on hose and tool together and the feed should come loose.



- Apply red loc-tite on the NPT threads of the 1/8 NPT Hex Plug then with the fuel adapter positioned as shown, install the plug using a 3/16" Allen wrench.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



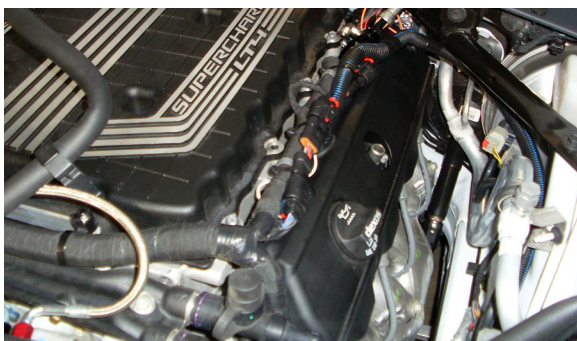
- Install the supplied 90° fitting in the fuel adapter by applying red Loctite on the pipe thread end of the 90° fitting and screw it into the side of the adapter body. Tighten using a 3/8" wrench.
- ****Note:** The 90° fitting should tighten in to place perpendicular to the fuel adapter.



- Install the supplied fuel feed adapter and tighten the retaining nut with a 13/16" wrench.



- Reinstall the vehicles fuel hose by sliding the fuel connector over the male end of the fuel adapter and firmly pushing until the connector locks into place over the adapter flange.



- Reinstall the coil, coil cover, oil cap and PCV hose.

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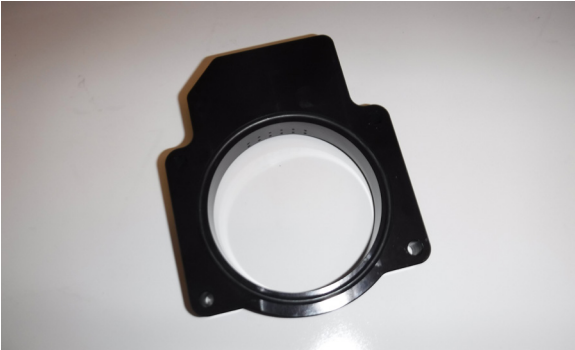
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2017-2021 Camaro ZL1 Plate System

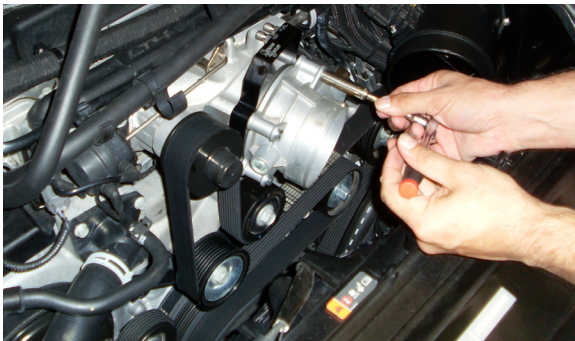
PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS

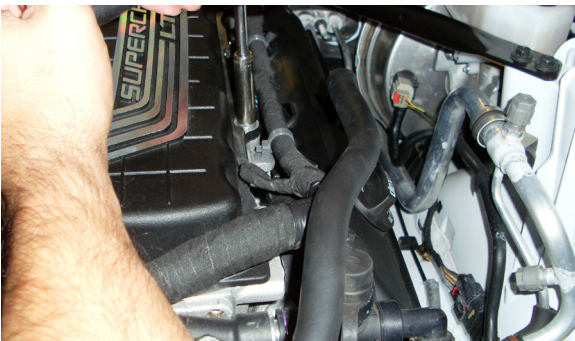


Step 3 – Nitrous Plate Installation

- Make sure that the intake manifold and nitrous plate O-rings are intact and properly seated in place.



- Place the throttle body plate in between the throttle body and intake manifold with the logo facing the front of the vehicle making sure that the O-rings are intact and properly seated in the throttle body and nitrous plate. Use the four 6mm bolts included with your nitrous system and a 10mm deep socket to mount the plate and throttle body.



Step 4 – Solenoid Assembly Installation

- Using a 10mm socket, remove the second bolt from the front on each side of the supercharger.



- Place the provided 10mm thick spacer over the hole on the side of the supercharger lid.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Using a 10mm socket, nitrous and fuel solenoid assemblies by bolting down the bracket with the provided 6mm bolts. The fuel solenoid should be mounted on the driver's side of the engine and the nitrous solenoid should be mounted on the passenger side of the engine.



Step 5 – Jet Installation

- Install the nitrous and fuel jet into the nitrous plate. The plate is engraved N2O for nitrous jet location and engraved FUEL for fuel jet location.

**Note: Use the jet card that came with the nitrous system to choose the correct jetting recommendation for your desired horsepower.



Step 6 – Soft Line Installation

- Blow out the solenoid supply hoses out with compressed air.



- Thread the hoses onto the nitrous plate. The straight hose end connects to the solenoid and the 90° end connects to the nitrous plate. Using a 9/16" wrench, tighten the red 12 1/4" long 4AN hose end on the fuel fitting.

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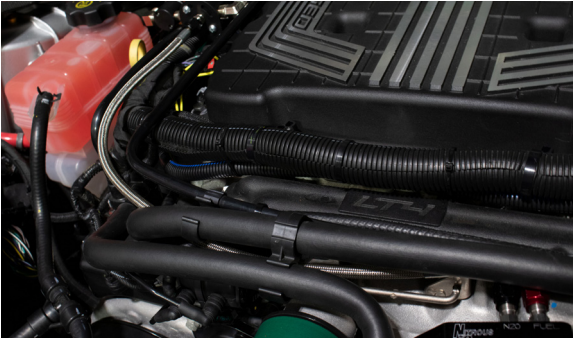
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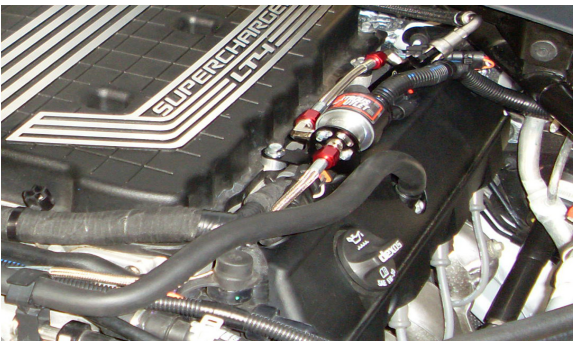
2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS

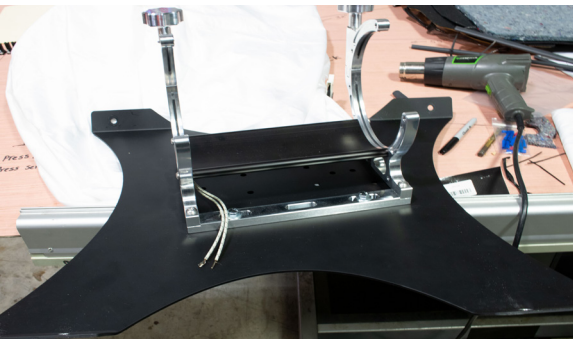


- Using a 9/16" wrench, tighten the black 19 1/4" long 4AN hose end on the N20 fitting. The straight hose end connects to the solenoid and the 90° end connects to the nitrous plate.



Step 7 – Fuel Feed Line Installation

- Blow out the 7 3/4" long fuel feed hose with compressed air. Using a 9/16" wrench, connect the hose between the fuel adapter and the fuel solenoid.



Step 8 – Bottle Mount Installation

- Due to clearance restrictions this application requires the Nitrous Outlet X Brace Bottle Mount in order to safely mount a nitrous bottle in the trunk area. Part number 00-33009
- Mount the bottle bracket on the bottle mount in the desired location and tighten the bolts with a 7/16" wrench. Be sure and use washers on both the bolt and the nut.

Shown with optional Heated Bracket P/N 00-32018-6



- With the floor/ spare tire cover out of the vehicle, place bottle mount in trunk, centered, with the top of the mount against the rear seat brace and mark the six holes. Remove the bottle mount.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Check under the area you are drilling to ensure it is clear of any electrical or fuel systems components. If it is clear, use a 3/8" drill bit to drill the holes you marked on the trunk floor.



- Use a 5/16" drill bit to drill the holes you marked on the rear seat brace.



- Install 1/4"-20 Rivet Nuts in the two bottom holes.



- Place the floor/ spare tire cover face down on a flat surface. Measure a 1/4" line along the straight edge of the cardboard closest to the insulation. Peel the carpet away from the cardboard just enough to clear the marked line. Trim the 1/4" marked area off the cardboard.

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WWW.NITROUSOUTLET.COM/INSTALLATION-GUIDES



2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Reinstall the floor/ spare tire cover then install the bottle mount using the top 4 bolts only.



- Mark the carpet for slots that the bottle mount will slide through and slide the carpet out from under the bottle mount.



- Using a razor blade, cut a slot between the marks in the carpet.



- Reinstall the floor/spare tire cover by sliding it under the bottle mount making sure that the bottom tabs of the mount insert in to the slots in the carpet.

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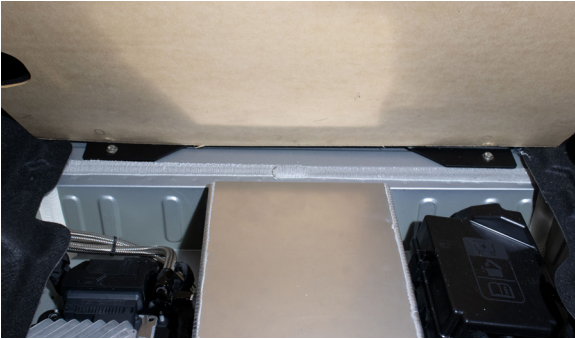
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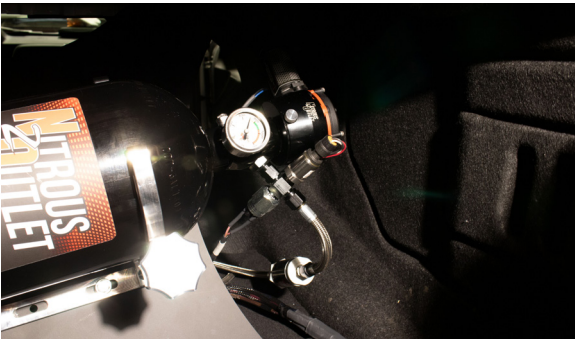
2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Lift the spare tire cover to access the mount tabs under the carpet to install the final two bolts in the Rivet Nuts in the floor of the trunk.



- Mount the bottle and tighten the feed line onto it with an 11/16" wrench. See attached notes for information regarding bottle mounting.



Step 9 – Nitrous Feed Line Installation

- Using tape cover both ends of the 6AN feed line to keep debris from getting in.



- Starting in the trunk, route the nitrous feed line under the rear seat back brace.

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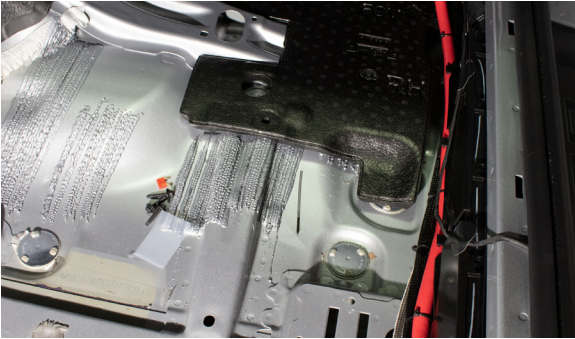
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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

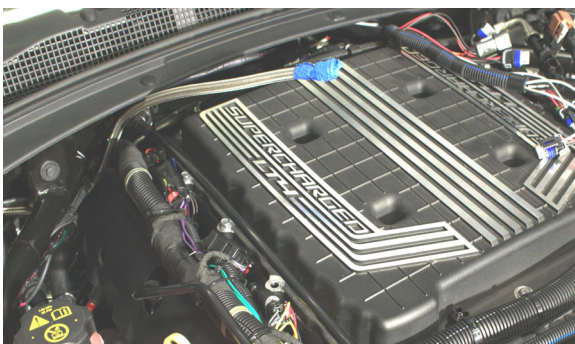
INSTALLATION INSTRUCTIONS



- Following the main power cable - route the hose under the back seat and along the passenger floorboard.



- Place the provided 1 1/4" grommet on the hose then route it through the hole in the firewall.



- Route up the firewall, over the passenger side valve cover, and up to the nitrous solenoid fitting.



- Remove the tape from both ends of the feed line and blow the hose out with compressed air.

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2017-2021 Camaro ZL1 Plate System

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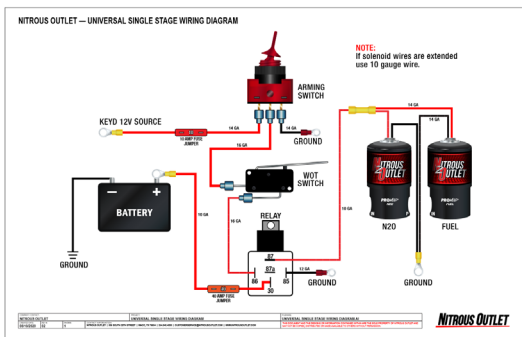
INSTALLATION INSTRUCTIONS



- Using an 11/16" wrench tighten the nitrous hardline onto the nitrous solenoid fitting.



- Mount the bottle and tighten the feed line onto it with an 11/16" wrench.
See attached notes for information regarding bottle mounting.



Step 10 – Wiring

- This step will cross over into the installation of other components you are installing in conjunction with the nitrous system, such as nitrous controller, bottle heater, purge etc. Using the diagrams that came with those components route the wiring.

****Note:** The diagram to the left is a basic system diagram with a WOT Switch.

To view a larger diagram, turn to the last page of these instructions, however you should be using a nitrous controller that incorporates a window safety switch with TPS activation

Step 11 – Final Check Over

- Reinstall the electronics panel in the passenger footwell.



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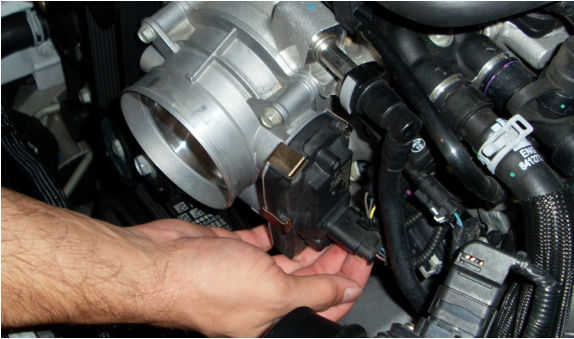
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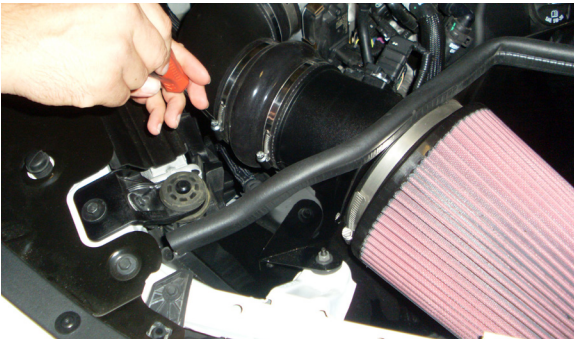
2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Reconnect the TPS sensor.



- Reinstall the intake tube.



- Reconnect the PCV hose.



- Reconnect the battery.
- Key car on and let the system prime. Check all fuel system components for fuel leaks.
- With the nitrous bottle still closed check the system functions to ensure proper wiring and proper settings of any electronic controllers.
- With the nitrous system deactivated open the nitrous bottle and check for any nitrous leaks.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



Step 12 – Final Assembly

- Replace the back seat carpet and reinstall the push pin.



- Replace passenger carpet.



- Replace the passenger side door sill/kick panel.



- Reinstall the front passenger seat.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Reinstall the trunk passenger side panel.



- Reinstall the center panel behind the rear seat back.



- Reinstall the rear seat back.



- Reinstall the rear seat bottom.

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2017-2021 Camaro ZL1 Plate System

PART NUMBER 00-10163

INSTALLATION INSTRUCTIONS



- Reinstall the rear trunk panel.



- Reinstall the trunk floor.



CONCLUSION

- You have finished your installation.

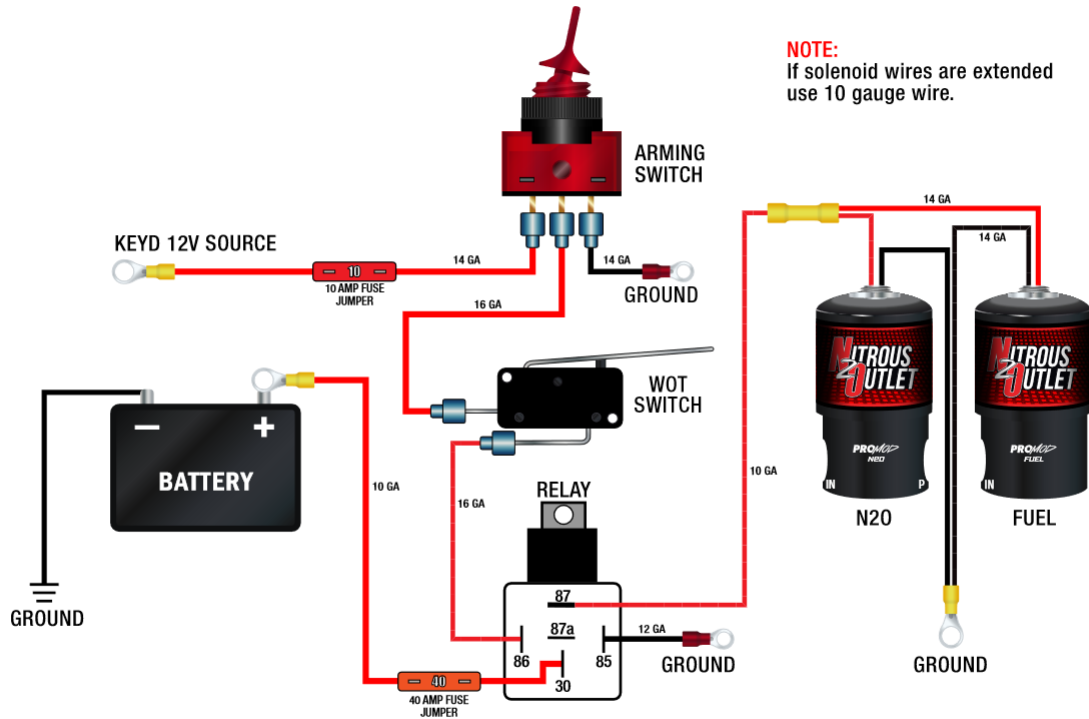
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System Wiring Diagram

NITROUS OUTLET — UNIVERSAL SINGLE STAGE WIRING DIAGRAM



NOTE:
If solenoid wires are extended use 10 gauge wire.

<small>COMPANY CONTACT</small> NITROUS OUTLET <small>PHONE</small> 0810/2920 <small>EMAIL</small> 02 <small>ADDRESS</small> 1 <small>CONTACT INFORMATION</small> NITROUS OUTLET 305 SOUTH 28TH STREET WACO, TX 76710 254.848.4300 CUSTOMERSERVICE@NITROUSOUTLET.COM WWW.NITROUSOUTLET.COM	<small>PROJECT</small> UNIVERSAL SINGLE STAGE WIRING DIAGRAM	<small>FILENAME</small> UNIVERSAL SINGLE STAGE WIRING DIAGRAM AI <small>THIS DOCUMENT AND THE DESIGN OR INFORMATION CONTAINED WITHIN ARE THE SOLE PROPERTY OF NITROUS OUTLET AND MAY NOT BE COPIED, DISTRIBUTED OR MADE AVAILABLE TO OTHERS WITHOUT PERMISSION.</small>
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Do-It-Yourself Riv-Nut Installation Instructions

INSTALLATION INSTRUCTIONS

This document is used for Do-It-Yourself Riv-Nut installation instructions. 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*:

- 1/2" Wrench
- 7/16" Wrench
- 1/4"-20 Bolt about 1 1/2" long (Does not have to be a socket head)
- 1/4"-20 Nut
- 5/16-18" Nut

*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.



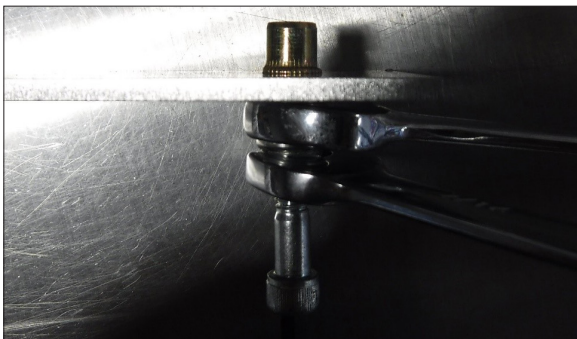
Step 1:

- Thread the 1/4-20 nut all the way onto the 1/4-20 bolt. Slide the bigger nut over the 1/4-20 bolt and then thread the rivnut onto the 1/4-20 bolt.



Step 2:

- Insert rivnut assembly into an 11/32" hole



Step 3:

- Use both the 7/16" and 1/2" wrench. Hold the 1/2" wrench still and tighten the 1/4-20 nut till it stops.

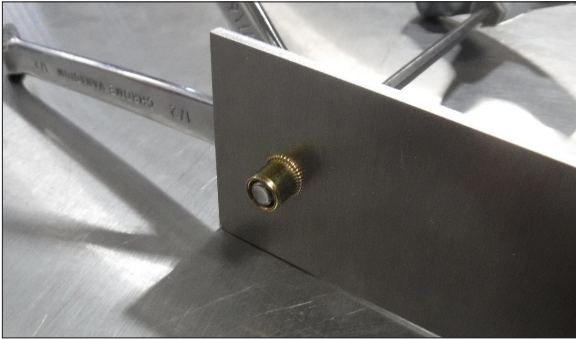
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Do-It-Yourself Riv-Nut Installation Instructions

INSTALLATION INSTRUCTIONS



Step 4:

- Un-thread the 1/4-20 bolt with the nuts to complete the install.



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