



BTR Equalizer Intake Nitrous Spacer Plate System

PART NUMBER: 00-10166-SP-XX

INSTALLATION INSTRUCTIONS

This Nitrous Outlet Intake Manifold Specific Spacer Plate System is designed specifically for a BTR Equalizer intake manifold. 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:

- Phillips Screwdriver
- 7/16" Wrench
- 9/16" Wrench
- 7/8" Wrench
- 5mm Allen Wrench
- Flat Tipped Screw Driver
- Tools to disconnect battery
- 11/16" Wrench

***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

- Disconnect the negative battery cable by removing the terminal cover and loosening the terminal nut.



- Remove the (12) M6 bolts holding the lid on the intake manifold. If the manifold is installed in a vehicle, it is not necessary to remove the intake manifold base from the car.



Step 2 – Nitrous Plate Installation

- Place the spacer plate assembly right side up on the base of the intake manifold. The o-ring on the spacer plate should be on top. The fuel fittings, labeled "F", will be on the driver's side of the engine.

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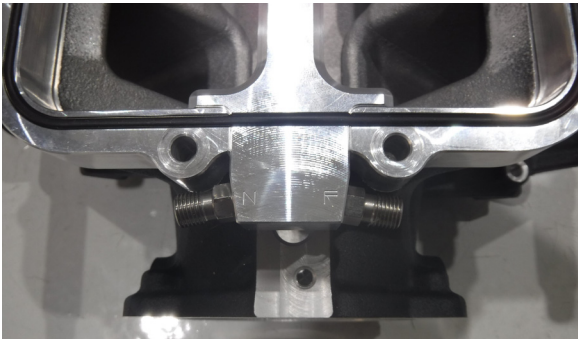
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- Place the intake manifold lid on top of the spacer plate. Using a 5mm Allen wrench, install the supplied M6-1.0x45 bolts to fasten the lid and spacer plate to the base.



- Do not install the supplied bolts in the 2 middle holes on each side of the lid. Those will be used in the next step.



Step 3 – Solenoid Assembly Installation

- Place the provided spacers in the screw pockets on the lid, under the solenoid brackets.

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- Using a 5mm Allen wrench, install the supplied M6-1.0x45 bolts to fasten the lid and solenoid brackets to the middle 2 holes on the base. The fuel solenoid needs to be installed on the driver's side and the nitrous solenoid on the passenger side.



Step 4 – Fuel Adapter Installation

- Apply blue Loc-Tite on the NPT threads of the 1/8NPT x 4AN 90 degree fitting. Then install it on the 8AN swivel fitting with the 4AN thread pointed toward the female end of the swivel fitting.

****Notes: If you chose the 6AN fuel rail fitting option from BTR, you will need to purchase the Flo Supply 6AN Swivel Adapter Part# 60-58076-6.**



- You need to bleed off the fuel pressure from the driver side fuel rail. Place a rag under one of the fuel fittings and loosen the fitting slowly. Using the rag to catch excess fuel.



- Using a 7/8" wrench, install the 8AN swivel fitting on the front of the driver's side fuel rail.

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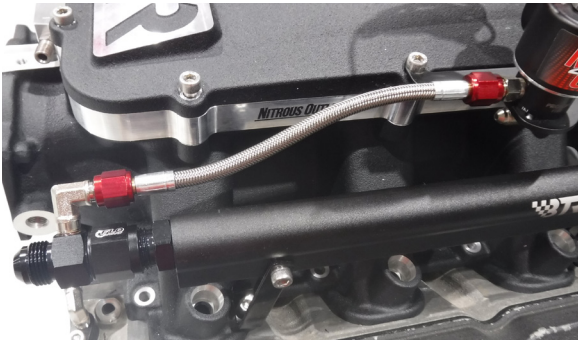
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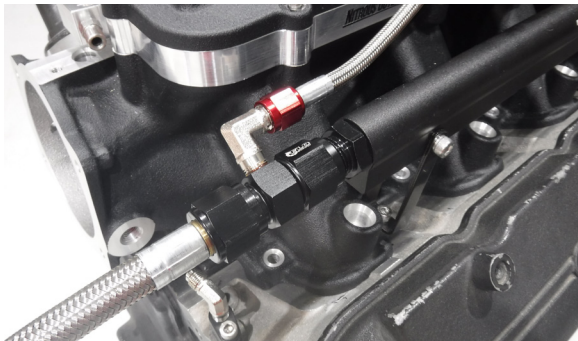
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Step 5 – Fuel Feed Line Installation

- Using a 9/16" wrench, install the 9" 4AN fuel hose between the 4AN 90degree fitting on the 8AN swivel and the 4AN inlet fitting on the fuel solenoid.



- Connect your fuel feed line to the 8AN swivel.



Step 6 – Jet Installation

- Install the nitrous and fuel jets into the nitrous plates. The N stands for Nitrous and the F stands for Fuel.

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



Step 7 – Hard Line Installation

- There are 2 fuel hard lines that mount on the driver's side of the intake.

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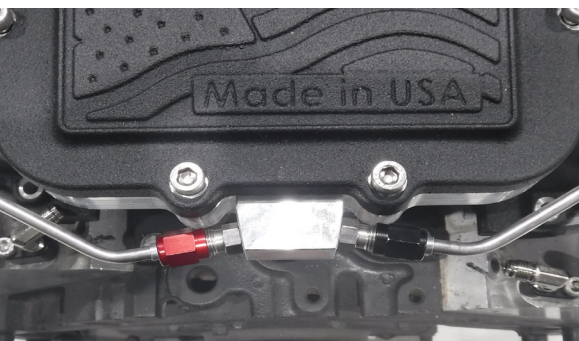
- The fuel hard lines are symmetrical. Connect the straight end to the fuel solenoid and the curved end to the jet fitting.



- There are 2 fuel hard lines that mount on the driver's side of the intake.



- The nitrous hard lines are symmetrical. Connect the straight end to the nitrous solenoid and the curved end to the jet fitting.



- Using a 7/16" wrench, tighten your hard lines.

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Step 8 – Bottle Installation

- Place the stainless clamps that came with the nitrous system around the nitrous bottle. Position the clamps mounting tabs so that they both sit flush to the floor under the bottle and tighten the brackets around the bottle.

****Note:** The taller bracket will go at the top of the bottle and the shorter bracket will go at the bottom of the bottle.



- Place the nitrous bottle back in its desired location. Using a sharpie mark the mounting tabs bolt holes. Then remove the bottle from the vehicle.



- Check under the vehicle and make sure the area you will be drilling holes in, is clear of any electrical, braking, exhaust, or fuel system components. Then use a center punch to mark the center of your marks. Drill the holes you marked.



- Place Bottle back in location, make sure the bolt holes line up, and bolt the brackets in place.



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Step 9 – Nitrous Feed Line Installation

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



- Route your nitrous feed line through your vehicle, making sure to avoid sharp and hot areas.



- It may be necessary to drill through certain areas to route the nitrous feed line.



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



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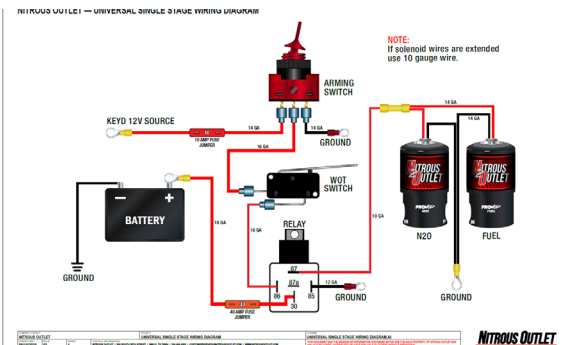
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- Connect your nitrous supply line to the nitrous solenoid.



- Attach the main feed line using an 11/16" wrench.



Step 10 – Wiring

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

CONCLUSION

You have finished your system installation.



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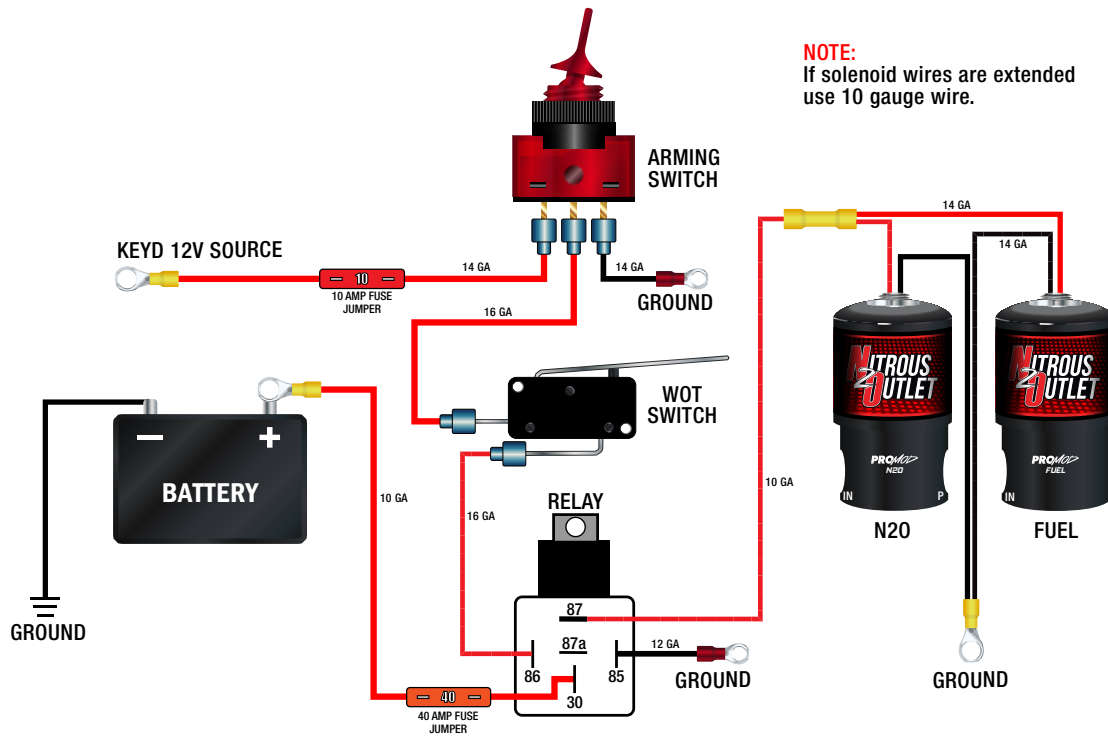


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NITROUS OUTLET — UNIVERSAL SINGLE STAGE WIRING DIAGRAM



<small>DATE OF PRINTING</small> NITROUS OUTLET 08/10/2020		<small>REVISION</small> 02		<small>QUANTITY</small> 1		<small>DESCRIPTION</small> UNIVERSAL SINGLE STAGE WIRING DIAGRAM		<small>DATE OF PRINTING</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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