

# NITROUS OUTLET

## Dodge 6.2L Blower Spacer Plate System Installation Instructions

2015-2023 6.2L HEMI Hellcat Challenger / Charger / Red Eye / Demon  
2018-2021 Track Hawk

Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

### PLATE FEATURES AND BENEFITS:

- Adjustable Power Increases from 70 to 400 Horsepower
- Jetting Included For 70-100-150-200-250-300-350-400 HP
- E85 Compatible
- Mounts Between Each Cylinder Head and the Blower
- CNC Machined Billet Aluminum
- ½" Thick with O-ring gaskets
- Includes All Hardware, Electrical, O-rings, and Jetting.

### BLOWER SPACER PLATES:

The 6.2L Hemi blower nitrous plates are designed to support horsepower gains between 70 to 400 horsepower. CNC machined billet aluminum with O-ring style gaskets. Jet fittings for nitrous and fuel are easily accessed at the front and the back of the spacer plates. These blower spacer plates will add ½" to the blower height.

### CONTROLLED DISCHARGE:

Unlike traditional throttle body plate and nozzle style nitrous systems that discharge an atomized mixture of nitrous and fuel before the blower, these nitrous blower plates mount between the cylinder heads and blower providing the ability to discharge a more precise and even atomized mixture of nitrous and fuel aimed directly into each combustion chamber.

### INSTALLATION:

The Nitrous Outlet 6.2L Hemi Blower Head plates require removal of the blower for installation. These plates mount directly between the cylinder head and blower. They use O-rings for sealing making it easy to install or remove.

### COMPLETE SYSTEM:

This package includes the CNC machined blower nitrous plates with solenoids, blower specific solenoid brackets, main feed-line, braided hoses, hard-lines, O-rings, fuel adapter, wiring, hardware, and everything else needed for installation.

### APPLICATION:

Dodge 2015-2019 6.2L Hemi Hellcat /Challenger/Charger/ Red Eye/Demon/2018-2021 Track Hawk

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### NOTE:

If you need any assistance during installation or if you have questions about this spacer plate system, call our Tech Help Line at (254) 848-4300.

**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 or damages resulting during and/or from the installation of any product(s). Nitrous oxide is for off-road use only.

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# 2015-2023 6.2L HEMI Hellcat Challenger/Charger/Red Eye/Demon 2018-2021 Trackhawk Blower Spacer Plate System

Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

## INSTALLATION INSTRUCTIONS

This Nitrous Outlet Vehicle Specific Spacer Plate System is designed specifically for a 2015-2023 Challenger, Charger, or Trackhawk with a 6.2L engine equipped with an OEM or Whipple 3.0L Gen 5 Supercharger. If you need any assistance during installation or if you have questions about this spacer plate system, call our Tech Help Line at (254) 848-4300.

### Tools Needed For Installation:

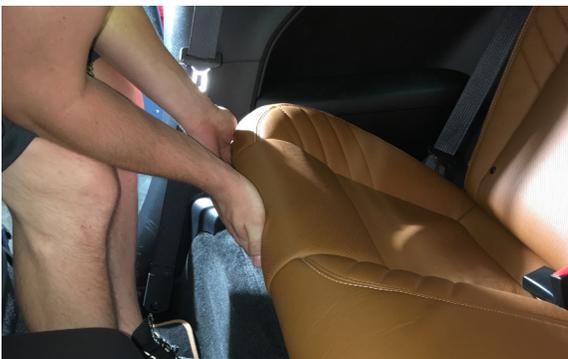
- T-30 Torx Bit
- 5/16" Drill Bit
- 3/4" Wrench
- 13/16" Wrench
- 10mm Wrench
- Ratchet and Extension
- 11mm Socket
- Electric Drill
- 6mm Allen Wrench
- 3/16" Allen Wrench
- 10mm Socket
- 1/2" Wrench
- 5/16" Wrench
- 11mm Wrench
- Trim Tool
- Flathead Screwdriver
- 3/8" Wrench
- 7/16" Wrench
- 13mm Wrench
- 1-1/8" Hole Saw
- Phillips Head Screwdriver
- 3/16" Hex Wrench
- 9/16" Wrench
- 5mm Allen Wrench
- 1 1/8" Drill Bit
- 13/16" Wrench
- 11/16" Wrench
- 1/2" Socket

\*These are the basic tools required for installation of this harness. Your vehicle may require additional tools.\*



### Step 1 - Disconnect the Battery

- Open the trunk and disconnect the battery with a 13mm wrench.



### Step 2 - Vehicle Disassembly

- Remove the back seat by pulling up on the corners of it. It may take some force for the clips to release.



- Remove the end cap on the drivers side of the dash using a trim tool. Work the trim tool all around the edges to release all of the clips.

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### INSTALLATION INSTRUCTIONS



- Remove the drivers side kick panel using your hands and a trim tool. Work from one end to to the other releasing the clips. Once the kick panel is loose, remove it from the vehicle.



- Use an 11mm socket and wrench to remove the dead pedal under the emergency brake. Once it's loose, remove it from the vehicle.



- Locate an open place on the firewall to drill a 1-1/8" hole for the nitrous feed hose to go through. Be sure and check both sides of the firewall to ensure the area you're drilling is clear of anything that can be damaged.



- Use a Phillips head screwdriver to remove the single screw under the kick panel. Then use your hands to pull loose the trim next to the backseat on the drivers side. This will be where the nitrous feed hose passes through to the trunk.

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### INSTALLATION INSTRUCTIONS



- Use the Factory Service Manual or Whipple Instruction Manual to remove the supercharger from your vehicle.



- Using a 10mm wrench, remove the M6 nut on the grounding stud at the back of the driver side cylinder head. Remove the grounding cable and coolant line support bracket from the stud.



#### Step 3 – Nitrous Plate Installation

- Using a 1/2" wrench and 1/2" socket, install the supplied "L" shaped bracket with the supplied 5/16-18 bolt and nut. The "L" shaped bracket should point up and to the driver's side of the vehicle.



- Install the "L" bracket and grounding cable on the stud on the back of the cylinder head.

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Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

### INSTALLATION INSTRUCTIONS



- Using your finger, apply a thin film of black RTV silicone around each cylinder head runner to adhere the provided intake manifold gasket to the cylinder head.

**\*\*NOTE - Make sure the silicone and gaskets do not interfere with the cylinder head runner openings or the gasket openings.**



- Place one of the provided intake manifold gaskets on each cylinder head.

**\*\*NOTE - Make sure the silicone and gaskets do not interfere with the cylinder head runner openings or the gasket openings.**



- Using your finger, apply a thin film of black RTV silicone around each intake runner on the bottom side (discharge side) of the spacer plates. The Nitrous Outlet Logo will be upside down and the discharge ports will be pointed up.

**\*\*NOTES - If you have a 1st generation spacer plate you will need to fill the o-ring groove machined around the intake runner port with silicone.**

**It is important not to over apply the silicone as excess can obstruct the discharge holes on the spacer plates and result in engine damage.**



- Place the spacer plate assemblies right side up on each cylinder head intake gasket. The plate assemblies are not passenger/drivers side specific. The jet fittings should be facing to the outside of the engine, the screws in the connecting plate should be facing up and the discharge ports should be aimed into the head.

**\*\*NOTE - Make sure the Silicone and gaskets do not protrude into the intake runner or interfere with the discharge from the spacer plate, as this could cause engine damage.**

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Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

### INSTALLATION INSTRUCTIONS



- Using your finger, apply a thin film of black RTV silicone around each intake runner on the top side of the spacer plates.

**\*\*NOTES** - If you have a 1st generation spacer plate you will need to fill the o-ring groove machined around the intake runner port with silicone.



#### Step 4 – Jet Installation

- Install the nitrous and fuel jet into the nitrous plate. The jet fitting highest and closest to the inside of the engine is the nitrous jet.

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



#### Step 5 – Hardline Installation

- The nitrous and fuel hardlines can be installed on the front or rear of the engine to clear the water pump and coolant lines. Install the fuel hardlines first, they connect to the outer jet fittings. Then install the nitrous hardlines on the inner jet fittings. The tee fittings connecting the hardlines should be facing outward from the center of the engine.



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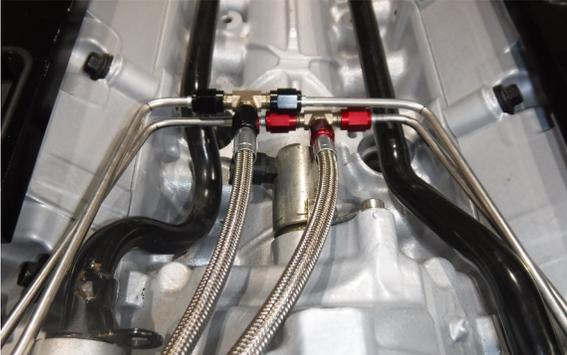
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### INSTALLATION INSTRUCTIONS



- On the front of the engine, install the 19.5" 3AN - 4AN straight fuel hose to the fuel hardline 3AN tee using a 1/2" wrench. Then install the 20.5" 3AN - 4AN straight nitrous hose to the nitrous hardline 3AN tee. Route these hoses to the passenger side of the engine.



- On the back of the engine, install the 25.5" 3AN - 4AN straight fuel hose to the fuel hardline 3AN tee using a 1/2" wrench. Then install the 22" 3AN - 4AN straight nitrous hose to the nitrous hardline 3AN tee. Route these hoses to the driver side of the engine.



#### Step 6 – Fuel Adapter Installation

- Apply blue 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.



- Apply blue loc-tite on the NPT threads of the 1/8 x 4AN x 4AN branch tee fitting. Then using a 7/16" wrench, install the fitting into the other fuel adapter opening.

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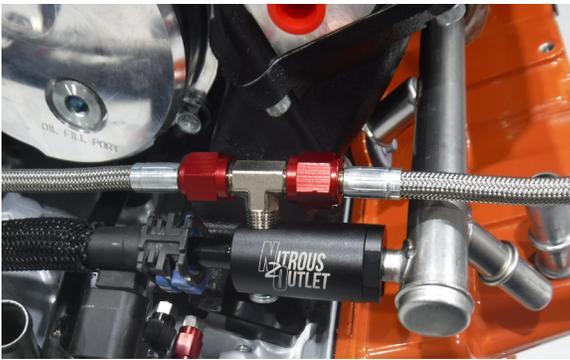
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### INSTALLATION INSTRUCTIONS



- Install the fuel adapter to the fuel supply line to the passenger side fuel rail by sliding the female end over the fuel line until it to rest against the fuel line flange. Then slide the fuel adapter nut over the fuel line and thread into the body of the fuel adapter. Using a 13/16" wrench tighten the adapter nut firmly into the adapter body pinching the fuel line flange between.



- Using a 1/2" wrench, install the 18" 4AN straight fuel line to the passenger side of the fuel adapter fitting. Install the 27" 4AN straight fuel line to the driver side of the fuel adapter fitting.



- Place another provided intake manifold gasket on each spacer plate.

**\*\*NOTE - Make sure the gaskets and silicone do not interfere with the spacer plate runners during installation.**



- Using your finger, apply a thin film of black RTV silicone around each runner on the top intake gasket surface.

**\*\*NOTE - Make sure the silicone does not interfere with the spacer plate, supercharger, or the gasket runner openings.**

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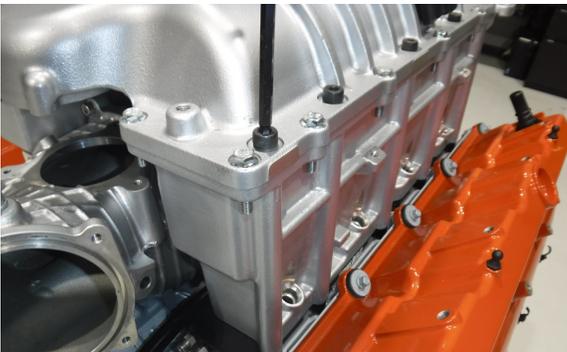
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### INSTALLATION INSTRUCTIONS



- Take a good look at the Nitrous and Fuel Discharge ports and make sure no silicone is or can squash out and obstruct the discharge ports when the blower is set down onto the plates.



#### OEM Supercharger

- Using a 6mm Allen wrench and supplied M8-1.25 x 210mm bolts and washers, bolt the supercharger on the spacer plates per the Factory Service Manual.

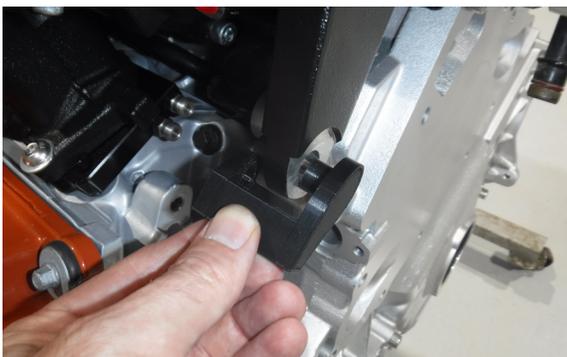
**\*\*NOTE - Make sure to use the correct torque sequence during re-installation.**



#### Whipple 3.0L Gen 5 Supercharger

- Using a 5mm Allen wrench and supplied M8-1.25 x 45mm bolts and washers, bolt the supercharger on the spacer plates per the Whipple Instruction Manual.

**\*\*NOTE - Make sure to use the correct torque sequence during re-installation.**



- Insert the support dowel of the Whipple Snout Adapter into the front of the snout support of the Whipple supercharger.

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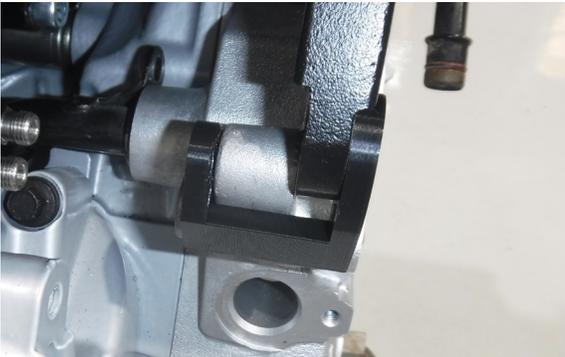
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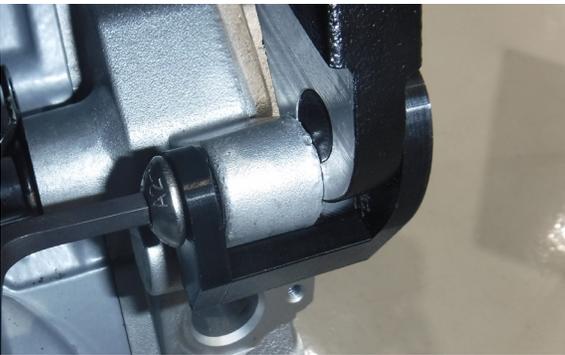
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### INSTALLATION INSTRUCTIONS



- Rotate the adapter down.



- Using a 6mm Allen wrench, install the M10-1.5 x 16mm bolt through the adapter and into the threaded boss on the water pump.



#### Step 8 – Solenoid Installation OEM Supercharger

- On the passenger side of the supercharger, remove the second from the front mounting bolt and the lid fasteners on either side of the mounting bolt.



- Stack 2 provided washers in the recess for the supercharger mounting bolt. Place one each of the provided 1/2" x 1/8" thick spacers in the recesses for the supercharger lid.

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### INSTALLATION INSTRUCTIONS



- The passenger side solenoid bracket assembly has the inlet and outlet fittings pointed in opposite directions. Reinstall the supercharger mounting bolt through the solenoid bracket. Using a 10mm socket, install the provided M6-1.0 x 30mm bolts through the solenoid bracket and in the supercharger lid.



- On the driver side of the supercharger, remove the third from the front mounting bolt and the lid fasteners on either side of the mounting bolt.



- Stack 2 provided washers in the recess for the supercharger mounting bolt. Place one each of the provided 1/2" x 1/8" thick spacers in the recesses for the supercharger lid.



- The driver side solenoid bracket assembly has the inlet and outlet fittings pointed in the same direction. Reinstall the supercharger mounting bolt through the solenoid bracket. Using a 10mm socket, install the provided M6-1.0 x 30mm bolts through the solenoid bracket and in the supercharger lid.

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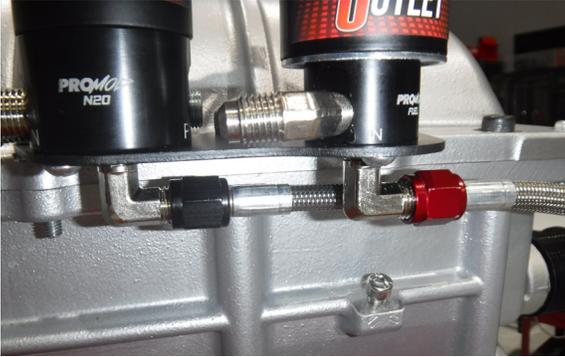
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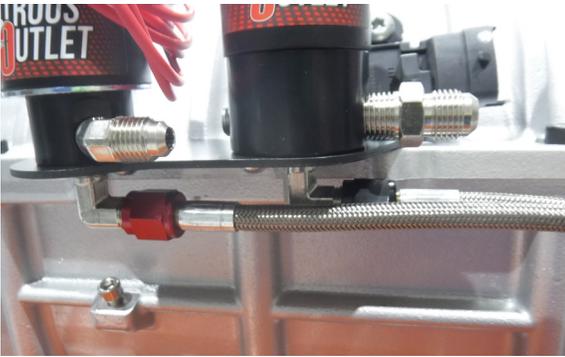
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### INSTALLATION INSTRUCTIONS



- On the passenger side solenoids, use a 9/16" wrench to connect the nitrous and fuel hoses to the solenoids. The hose with the black b-nut connects to the nitrous solenoid and the hose with the red b-nut connects to the fuel solenoid.



- On the driver side solenoids, use a 9/16" wrench to connect the nitrous and fuel hoses to the solenoids. The hose with the black b-nut connects to the nitrous solenoid and the hose with the red b-nut connects to the fuel solenoid.



#### Whipple Supercharger

- On the passenger side of the supercharger, remove the front three fasteners of the lid.



- The passenger side solenoid bracket assembly has the inlet and outlet fittings pointed in opposite directions. Reinstall the supercharger lid fasteners through the solenoid bracket.

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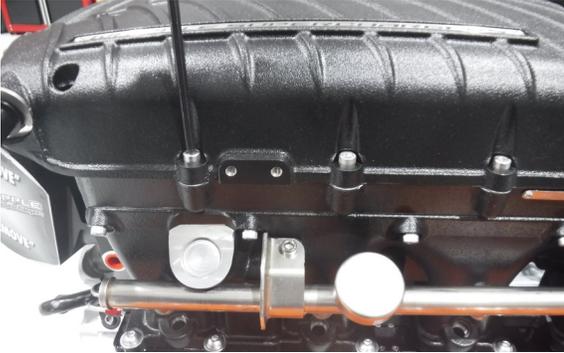
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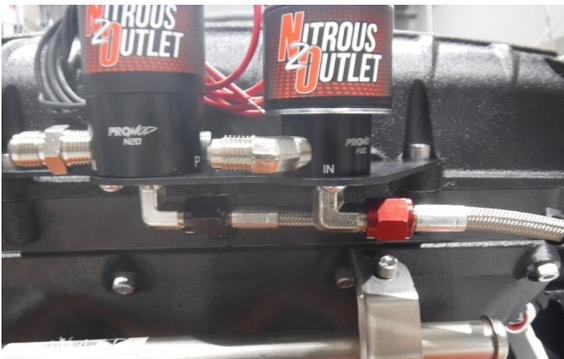
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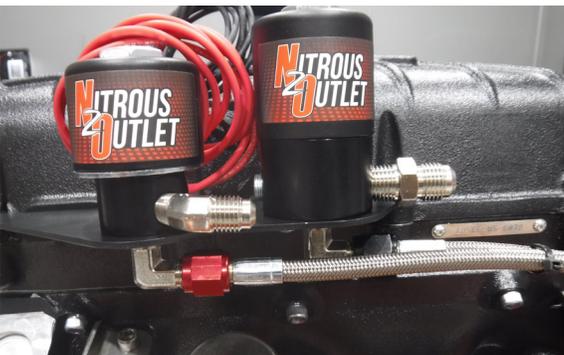
- On the driver side of the supercharger, remove the front three fasteners of the lid.



- The driver side solenoid bracket assembly has the inlet and outlet fittings pointed in the same direction. Reinstall the supercharger lid fasteners through the solenoid bracket.



- On the passenger side solenoids, use a 9/16" wrench to connect the nitrous and fuel hoses to the solenoids. The hose with the black b-nut connects to the nitrous solenoid and the hose with the red b-nut connects to the fuel solenoid.



- On the driver side solenoids, use a 9/16" wrench to connect the nitrous and fuel hoses to the solenoids. The hose with the black b-nut connects to the nitrous solenoid and the hose with the red b-nut connects to the fuel solenoid.

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### INSTALLATION INSTRUCTIONS



#### Step 9 – Fuel Feed Line Installation

- Using a 9/16" wrench, install the 27" 4AN straight fuel line to the driver side fuel solenoid.



- Using a 9/16" wrench, install the 18" 4AN straight fuel line to the passenger side fuel solenoid.



#### Step 10 – 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 bottle in the trunk where you'd like to mount it. Use a marker to mark the holes you'll need to drill for the bolts. [See attached notes for information regarding bottle mounting.](#) A great alternative mounting option is out Hellcat specific bottle mount (Part Number 00-33006).

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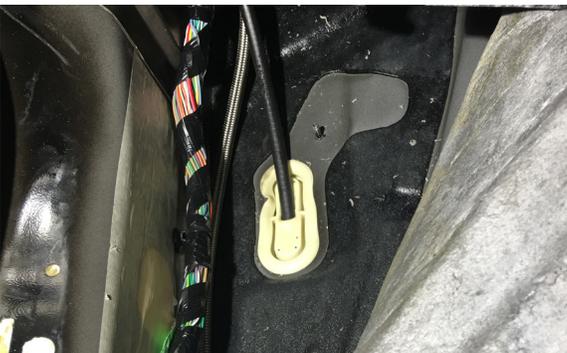


- **Note:** If you are using the standard bottle bracket that came with your kit, you'll need to source your own bolts for mounting the bracket with this kit. The bolt size should be 5/16-18 x 3".

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 5/16" drill bit to drill the holes you marked.

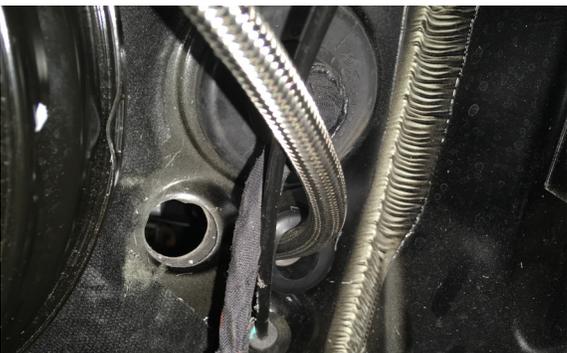


- Mount the bracket, and tighten the bolts with a 5/16" wrench. You may have to have someone under the car with another 5/16" wrench hold the nut while you tighten the bolt. Be sure and use washers on both the bolt and the nut.



#### Step 11 – Nitrous Feed Line Installation

- Starting at the driver side door, route the nitrous feed line under the factory wiring harness under the kick panel.



- Place a rubber grommet in the hole from Step 2, and push the nitrous feed hose through the firewall from the drivers side floor.

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### INSTALLATION INSTRUCTIONS



- Push the nitrous feed hose behind the trim panel, and into the trunk. Be sure to route the hose under any seat brackets to ensure the hose doesn't pinch and that you don't run into any clearance problems during re-assembly.



- Check the feed hose to ensure it won't be pinched or damaged by the back seat. If there's a chance it could be, relocate the hose to a different spot by routing it under the back seat.



- Using an 11/16" Wrench tighten the the 13" & 27" 6AN nitrous feed lines to the provided 6AN Y fitting.



- Using an 11/16" Wrench tighten the main feed line on to the Y fitting assembly. The 13" feed line should be routed to the driver's side of the vehicle. The 27" feed line should be routed to the passenger side of the vehicle.

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## 2015-2023 6.2L HEMI Hellcat Challenger/Charger/Red Eye/Demon 2018-2021 Trackhawk Blower Spacer Plate System

Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

### INSTALLATION INSTRUCTIONS



- Blow the hose out with compressed air.



- Using an 11/16" Wrench tighten the 13" feed line on to the driver side nitrous solenoid.



- Using an 11/16" Wrench tighten the 27" feed line on to the passenger side nitrous solenoid.



- Tighten the nitrous feed hose onto the bottle with an 11/16" wrench. Do not over-tighten!

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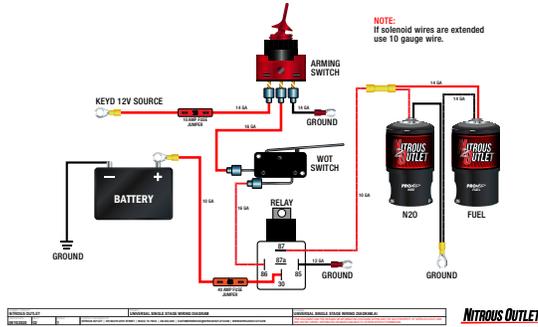


# 2015-2023 6.2L HEMI Hellcat Challenger/Charger/Red Eye/Demon 2018-2021 Trackhawk Blower Spacer Plate System

Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

## INSTALLATION INSTRUCTIONS

NITROUS OUTLET — UNIVERSAL SINGLE STAGE WIRING DIAGRAM



### Step 12 - Wiring

- Using the diagrams that came with whichever nitrous controller and system accessories you chose, route the wiring through the car. The wiring diagram can be found on the last page of these instructions.

**\*\*Note:** This is a basic system diagram with a WOT Switch. You should be using a nitrous controller that incorporates a window safety switch with TPS activation.

### Step 13 - Final Assembly

- Reinstall the remainder of your vehicle's components per the Factory Service Manual or Whipple Instruction Manual.



### Step 14 – Final Check Over

- 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.

## CONCLUSION

You have finished your installation.

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## 2015-2023 6.2L HEMI Hellcat Challenger/Charger/Red Eye/Demon 2018-2021 Trackhawk Blower Spacer Plate System

Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

### INSTALLATION INSTRUCTIONS

#### Bottle Mounting Information

It's very important to mount your bottle in the proper orientation. Ideally, the bottle should be facing with the valve to the front. This is because the siphon tube inside the bottle is curved towards the bottom of the bottle, so it can pick up a steady supply of nitrous. In the event your bottle cannot be mounted front to back, you can mount it at an angle, or even sideways. If you mount the bottle sideways, you'll need to rotate the bottle so that the siphon tube is at a 45\* angle. This means the bottle nipple will be facing the back of the vehicle at a 45\* angle. This is because upon acceleration, the nitrous can be pulled away from the siphon tube, and with it at an angle it still allows the siphon tube to be submerged in the nitrous. The siphon tube on Nitrous Outlet bottles are curved in the same direction as the bottle nipple. If the bottle is mounted front-to-back, the nipple should be facing down towards the floor of the vehicle. If you have any questions about mounting your bottle, call our Tech Help line at (254) 848-4300.



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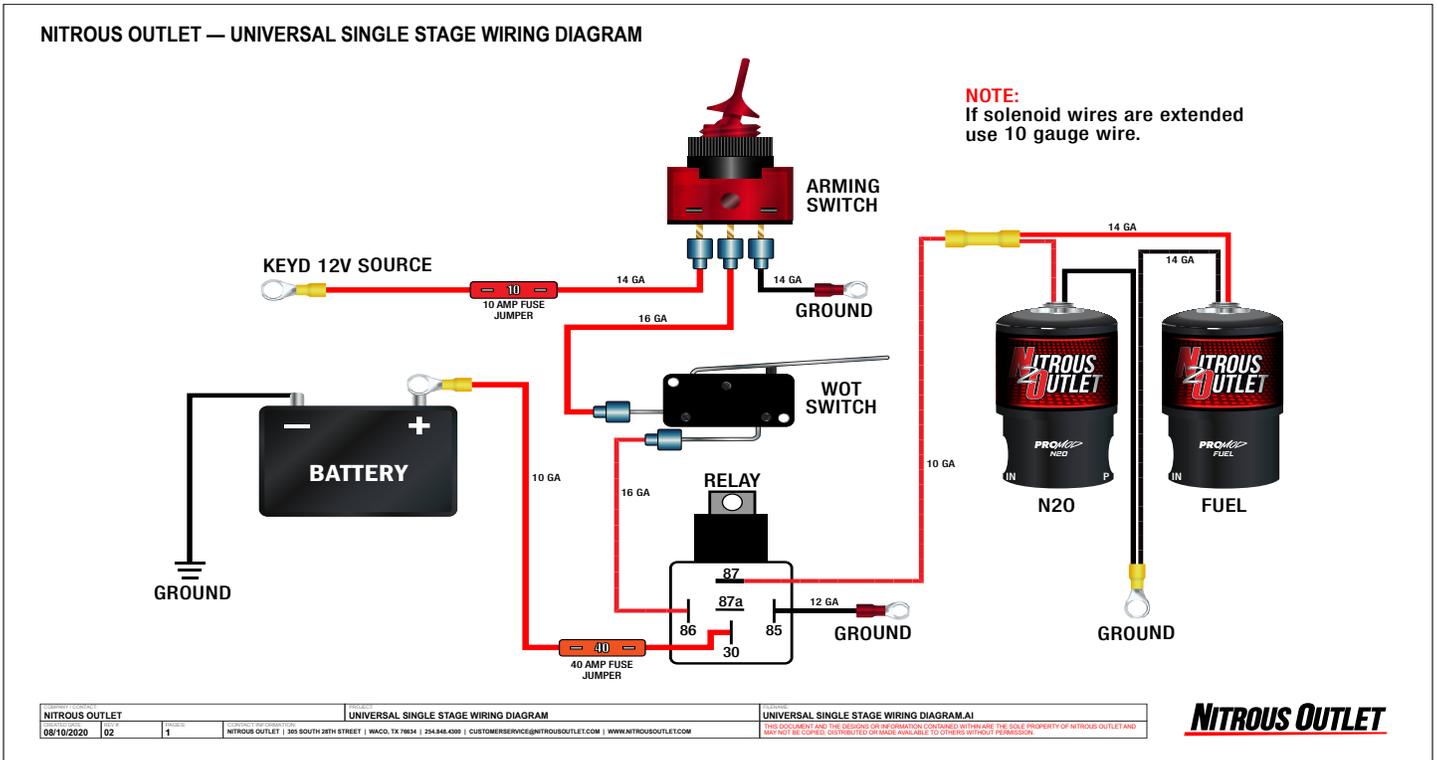
2015-2023 6.2L HEMI Hellcat Challenger/Charger/Red Eye/Demon  
2018-2021 Trackhawk Blower Spacer Plate System

Vehicle Specific Plate System PART NUMBER: 00-10169-XX and 00-10169-W-XX

**INSTALLATION INSTRUCTIONS**

**Wiring Diagram and Information**

Now that your system is installed, you can begin wiring it. When wiring your nitrous system, double check all of your wiring connections. For a clean, professional install we recommend using heat shrink of all crimped connectors. This will protect the connection, and make the connection stronger between the wire and crimp-on connector.



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