



# Fuel Pressure Switch Adjustment Instructions

PART NUMBER: 00-60000 and 00-60001

## INSTALLATION & ADJUSTMENT INSTRUCTIONS

These instructions cover both the Low Fuel Pressure (00-60000) and High Fuel Pressure (00-60001) Fuel Pressure Safety Switches. If you have any questions about the use or installation of this product, call our Tech Help Line at (254) 848-4300.

### About your Nitrous Outlet Fuel Pressure Safety Switch:

The Nitrous Outlet Fuel Pressure Safety Switch is a low-cost safety component designed to prevent expensive engine damage, caused by fuel pressure loss or fuel pump failure.

In the event fuel pressure were to drop below the pressure switch setting, the switch will interrupt signal to the nitrous system relay, preventing the system from activation.

These pressure switches utilize a 1/8" NPT thread and can be added to the fuel system with the use of an inline adapter manifold or any 1/8" NPT tapped hole in the fuel system.

These pressure switches come preset at 5 psi for low pressure fuel systems or 35 psi for high pressure fuel systems, however with the turn of a set screw, they are easily adjustable to fit your exact needs.

### Tools Needed for Installation & Adjustment:

- #2 Phillips Head Screwdriver
- 1/8" Allen Wrench
- Pressure Gauge
- Air Pressure Regulator
- Digital Volt Ohm Meter
- 15/16" Wrench
- Loctite

### NOTE:

The fuel pressure switch will need to be set to the required psi setting to operate properly. This can be adjusted with your vehicle's fuel system or on a test bench with regulated air pressure and gauge. Determine your vehicle's fuel pressure at idle. For a high-pressure fuel system, the switch will need to be set at 5psi below that pre-determined number. For a low-pressure fuel system, the switch will need to be set at 1/2psi below that pre-determined number. These settings can be fine tuned to your exact preference.

**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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### Switch Installation



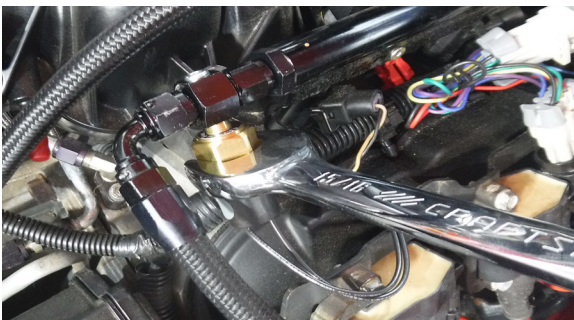
#### Step 1:

Apply a drop of red Loctite on the 1/8" NPT threads of the switch.



#### Step 2:

On the inlet side of your fuel system, use an in-line manifold with a 1/8" NPT port and a 15/16" wrench to install the switch.



The in-line manifold can be installed directly to the fuel rail.



The switch can also be installed directly to the fuel rail provided it has a 1/8" NPT port.

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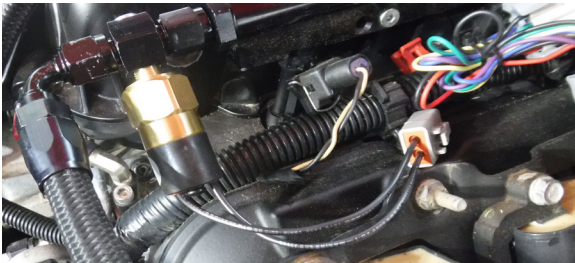
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## INSTALLATION & ADJUSTMENT INSTRUCTIONS



### Step 3:

Connect the wiring using the diagram provided at the end of these instructions.



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# Fuel Pressure Switch Adjustment Instructions

PART NUMBER: 00-60000 and 00-60001

## INSTALLATION & ADJUSTMENT INSTRUCTIONS

### Switch Adjustment Instructions: Regulated Air Pressure



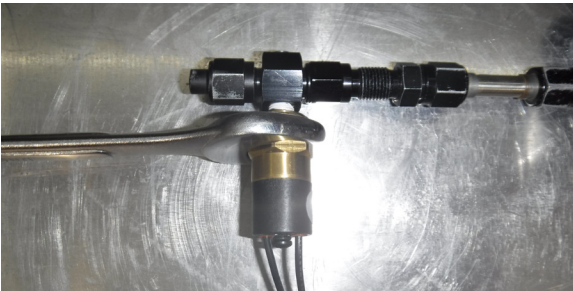
#### Step 1:

You will need an air pressure regulator with a gauge and fitting adapters to connect the 1/8" NPT thread on the pressure switch.



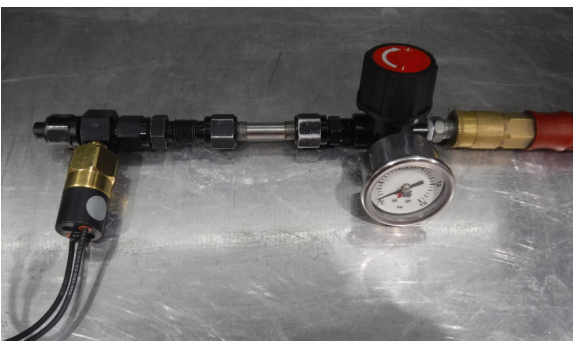
#### Step 2:

Apply a thin layer of teflon tape around the base of the 1/8" NPT threads on the pressure switch.



#### Step 3:

Using a 15/16" wrench, install the switch to the air regulator assembly.



#### Step 4:

Connect the air pressure regulator to your air supply.

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## INSTALLATION & ADJUSTMENT INSTRUCTIONS



### Step 5:

Set the air pressure regulator to the calculated pressure number.

### Recommended settings:

Low pressure system: 1/2psi lower than system pressure

High pressure system: 5psi lower than system pressure



### Step 6:

Using a #2 phillips head screwdriver, remove the large center screw from the black wire cover.



### Step 7:

Connect a Digital Volt Ohm Meter to the leads of the Pressure Switch. Turn on the meter and set the dial to the 200k Ohm position.



### Step 8:

\*\*The high pressure switch comes with a preset cut-off setting of 35psi. Using a 1/8" Allen wrench, adjust the pressure setting of the switch to the calculated cut-off fuel pressure from Step 5. Turn the hex clockwise if your cut-off pressure is higher than 35psi, and turn it counter-clockwise if your cut-off pressure is lower than 35psi.

\*\*The low pressure switch comes with a preset cut-off setting of 5psi. Using a 1/8" Allen wrench, adjust the pressure setting of the switch to the calculated cut-off fuel pressure from Step 5. Turn the hex clockwise if your cut-off pressure is higher than 5psi, and turn it counter-clockwise if your cut-off pressure is lower than 5psi.

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## INSTALLATION & ADJUSTMENT INSTRUCTIONS



### Step 9:

The Digital Volt Ohm Meter will read 0.00 until it reaches the cut-off psi. At that point the meter will read **I** (Infinity) or **OL** (Open Loop) on the left side of the display which opens the electrical circuit and shuts off the nitrous system.



### Step 10:

Your pressure switch is now set. Reinstall the large center screw in the black wire cover.



### Step 11:

Disconnect the air supply and remove the switch. It is now ready to be installed on your vehicle.

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## INSTALLATION & ADJUSTMENT INSTRUCTIONS

### Switch Adjustment Instructions: Regulated Fuel Pressure



#### Step 1:

You will need a fuel system with a fuel pump, fuel pressure regulator, pressure gauge, and a 1/8" NPT port to install the pressure switch.



#### Step 2:

Using steps 1 & 2 from either page 2 or 3 to install the switch to the fuel system.



#### Step 3:

Using a #2 phillips head screwdriver, remove the large center screw from the black wire cover.



#### Step 4:

Power on the fuel supply to the fuel pressure regulator.

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PART NUMBER: 00-60000 and 00-60001

## INSTALLATION & ADJUSTMENT INSTRUCTIONS



### Step 5:

Adjust the vehicle's fuel pressure to the calculated low pressure number.



### Step 6:

Connect a Digital Volt Ohm Meter to the leads of the Pressure Switch. Turn on the meter and set the dial to the 200k Ohm position.



### Step 7:

\*\*The high pressure fuel switch comes with a preset cut-off setting of 35psi. Using a 1/8" Allen wrench, adjust the pressure setting of the switch to match the calculated cut-off fuel pressure. Turn the hex clockwise if your cut-off pressure is higher than 35psi, and turn it counter-clockwise if your cut-off pressure is lower than 35psi.

\*\*The low pressure fuel switch comes with a preset cut-off setting of 5psi. Using a 1/8" Allen wrench, adjust the pressure setting of the switch to match the calculated cut-off fuel pressure. Turn the hex clockwise if your cut-off pressure is higher than 5psi, and turn it counter-clockwise if your cut-off pressure is lower than 5psi.

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### Step 8:

The Digital Volt Ohm Meter will read 0.00 until it reaches the cut-off psi. At that point the meter will read **I** (Infinity) or **OL** (Open Loop) on the left side of the display which opens the electrical circuit and shuts off the nitrous system.



### Step 9:

Your pressure switch is now set. Reinstall the large center screw in the black wire cover.



### Step 10:

Make sure to re-set your vehicle's fuel pressure to the original setting.

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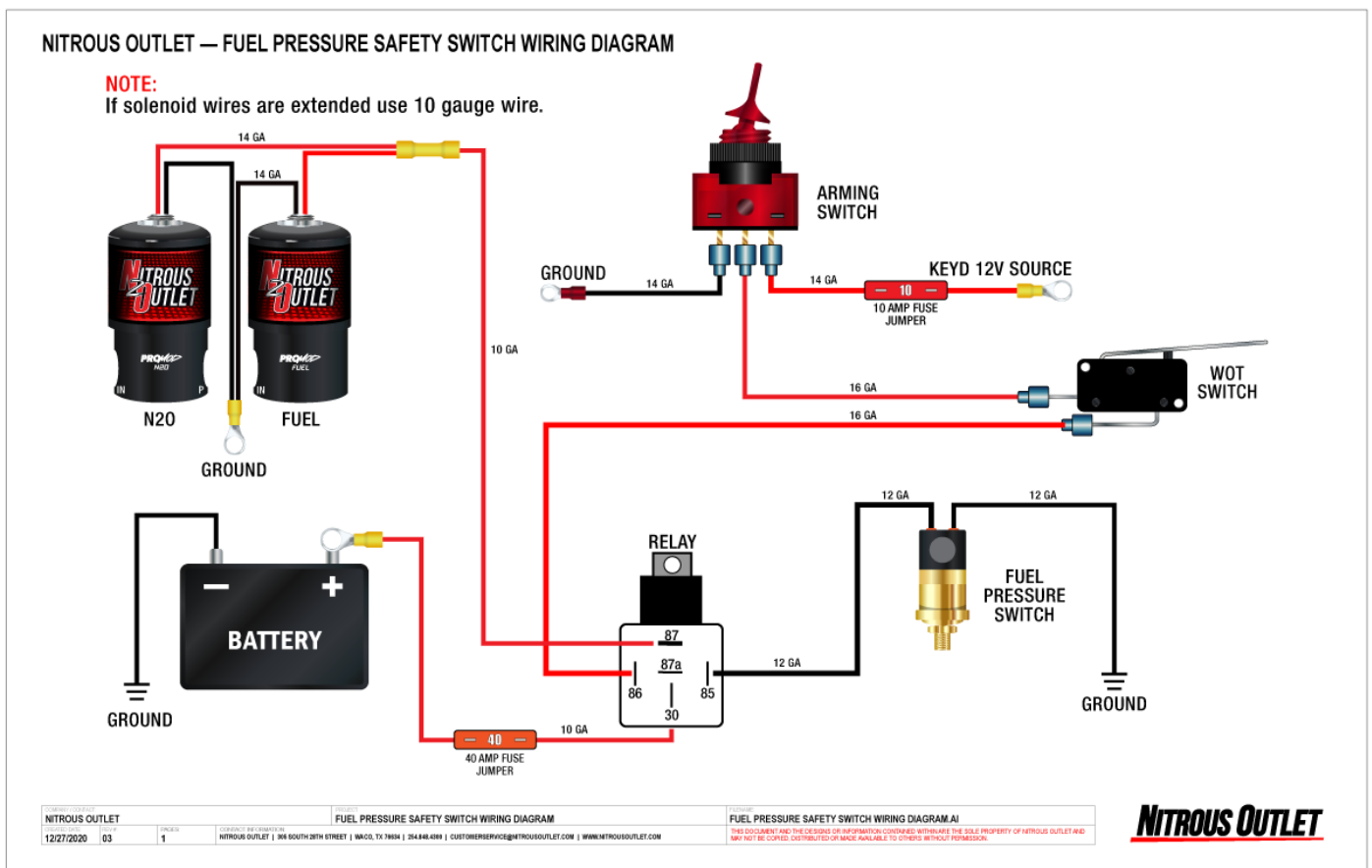
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### Testing The Fuel Pressure Safety Switch:

With the nitrous bottle off turn the nitrous system ariming switch on. Test the system by clicking the nitrous activation switch. If your wiring is correct, nothing should happen. Now turn the fuel pump on and click the nitrous switch again. The solenoids should click if the system is wired and set correctly. Be careful not to flood the engine with fuel.



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