



# Flowing Fuel Pressure Test Gauge

PART NUMBERS: 00-63010

## INSTALLATION INSTRUCTIONS

This Nitrous Outlet Flowing Fuel Pressure Test Gauge is designed specifically to be more accurate than your run of the mill liquid filled sweeping gauge, it also reads in 5 units; psi, bar, kpa, Mpa, and kg/cm<sup>2</sup> and automatically records the max pressure reading. This gauge is for fuel systems rated from 0-100 PSI. If you need any assistance using this gauge or if you have questions about this gauge, call our Tech Help Line at (254) 848-4300.

**CAUTION:** When working with fuel, take all necessary safety precautions. Fuel is extremely flammable and can cause serious burns or injury.

**NOTE:** When changing out a dead battery for a new one make sure to use only batteries with these specifications: **3.6V, Size AA, Lithium Battery.**



### Determining Your Flow Through Fuel Jet

There are a few ways to determine what flow through fuel jet that you want to use in your fuel pressure gauge.

#### For EFI or Carb Plates and Single Nozzle Systems:

Use the same size jet in the flow tool that the jet card calls for in your application. For example - a 100hp shot at 55psi fuel pressure on gasoline calls for a .023" jet, so use a .023" jet in the flow tool for testing.

#### For Direct Port Systems:

As a general rule of thumb, you can simply use a .073" jet for testing 8 cylinder direct port systems running 5-9psi fuel pressure. For a more exacting test, use the following formula to determine the needed test jet.

(Fuel Jet) x (Fuel Jet) x (Number of Fuel Jets) = "X" Then take the square root of "X" and it will give you the jet size you need for testing. For Example - a 300hp shot at 7psi fuel pressure on gasoline calls for a .023" jet. (Remove the decimal point from the jet size)  $23 \times 23 \times 8 = 4232$   
 $\sqrt{4232} = 65.05$  Drop the #s after the decimal point and move the decimal to the left 3 spaces. You'll arrive at the needed test jet, in this case a .065".

Instructions to using the Flowing Test Gauge are on pg 2.

Instructions to program gauge settings start on pg 3.

### Items Included:

- Hard Carrying Case 5" Digital Fuel Pressure Gauge
- Gauge Manifold with Fittings and Shutoff Valve 12" 6AN Hose
- 36" 4AN to 3AN Hose
- Jetting pack from .018" to .136"

**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). All products are intended for off-road use only.

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1. Connect the 12" 6AN braided hose to the 6AN fitting on the test gauge. Be sure to zero the gauge before testing.
2. Based on the test jet selection instructions on Page 1, insert the proper test jet in the outlet fitting of the valve and attach the 4AN side of the 36" hose to the valve.
3. With the fuel pump off and the pressure relieved from the system, disconnect the outlet hose from the fuel pressure regulator and connect the 6AN hose from the gauge assembly to the pressure regulator. Then securely run the 3AN outlet of the 36" hose back in to the tank or to a collection container. Ensure the valve on the gauge assembly is closed (black handle at 90° to the valve body).
4. Start fuel flow to the gauge by powering on your fuel pump. Your flowing fuel pressure will be displayed on the gauge when you open the shut off valve. The display shows flowing fuel pressure in large numbers, and highest recorded pressure in smaller numbers on the bottom of the display.
5. Adjust the fuel pressure regulator to achieve desired fuel pressure while flowing.

### NOTE:

While adjusting your fuel pressure, ensure that your fuel system does not run low or out of fuel. This can cause your fuel pressure to read incorrectly and can cause irreversible damage to your pump without fuel.

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**NOTE:** When changing out a dead battery for a new one make sure to use only batteries with these specifications:

**3.6V, Size AA, Lithium Battery.**



**Step 1:**  
Turn the gauge on by pushing the power button.

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### Step 2:

Press the 'Zero' button to zero out the small highest recorded pressure reading on the gauges display. Press and hold the 'Zero' button to zero out the larger pressure reading on the gauges display.



### Step 3:

Press the 'Backlight' button to turn the display light on or off.



### Step 4:

Press and hold the power button for 3 seconds to enter programming mode.



### Step 5:

Press the 'Backlight' button 4 times and then press the 'Zero' button once to select the 00001 lock code, then press the 'On/Off' button to enter the Off Time and Backlight menu.

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### Step 6:

The first setting allows you to change the amount of time in minutes that the gauge will stay on before it turns off. Press the 'On/Off' button and the number will start flashing. Use the 'Zero' Button to raise the number and the 'Backlight' Button to lower the #. You can select between 1 to 15 minutes or select 0 for the gauge to stay on until the 'On/Off' Button is pressed to turn it off. Press the 'On/Off' Button to lock the setting.



### Step 7:

Press the 'Zero' button. This setting allows you to change the amount of time in seconds that the backlight will stay on after the backlight button is pushed. Press the 'On/Off' button and the number will start flashing. Use the 'Zero' Button to raise the number and the 'Backlight' Button to lower the #. You can select between 5, 10, 15, 30, 60, 120, or 180 second intervals. Select 88 for the backlight to stay on until the 'On/Off' Button is pressed to turn the gauge off or select 0 for the backlight to be disabled. Press the 'On/Off' Button to lock the setting.



### Step 8:

Press the 'Zero' Button. This is the 'Save' option. Press the 'On/Off' Button twice to save the settings and return to the main display.



### Step 9:

To enter the second programming menu, press and hold the power button for 3 seconds to enter programming mode. Press the 'Backlight' button 3 times and then press the 'Zero' button once. Press the 'Backlight' button 1 time and then press the 'Zero' button 6 times to select the 00016 lock code. Then press the 'On/Off' button to enter the Unit of Measure and Display Menu.

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### Step 10:

This setting allows you to change the units that the gauge measures in. Press the 'On/Off' button and the number will start flashing. Use the 'Zero' Button to raise the number and the 'Backlight' Button to lower the #. You can select between 0 - MPa, 1 - kPa, 2 - Pa, 3 - bar, 4 - Psi, 5 - kgf, 6 - mmHg, 7 - mH2O, 8 - Torr, 9 - atm Press the 'On/Off' Button to lock the setting.



### Step 11:

Press the 'Zero' button. This menu allows you to change what is shown on the small numbers on the screen of your gauge. 0 - Peak Pressure, 1 - Lowest Pressure, 2 - Highest Value, 3 - Temp in °C.



### Step 12:

Press the 'Zero' Button 7 times. This is the 'Save' option. Press the 'On/Off Button twice to save the settings and return to the main display.

## NOTE:

**Please do not change any other settings as it will adversely affect the performance of the gauge!**

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