Installation & Set-Up Instructions
Nitrous Pressure Regulator (#82180)

Thank you for choosing ZEX™. If at any time you have questions regarding this or any of our products, please call our ZEXTEK™ support line at 1-888-817-1008.

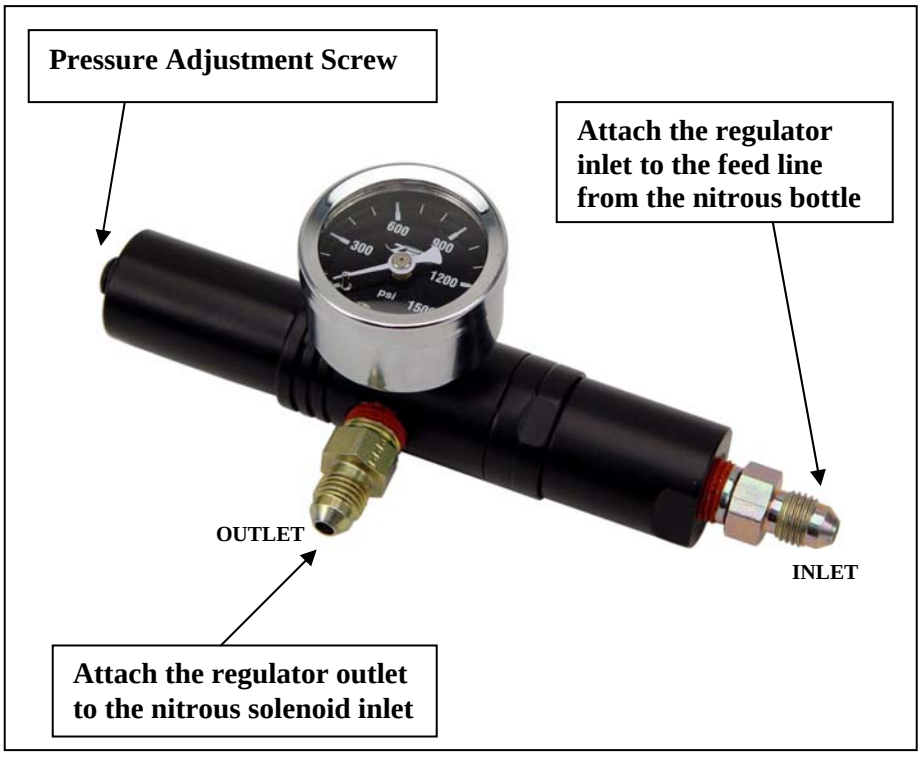
Read this installation manual completely before attempting to install your ZEX™ Nitrous Pressure Regulator. Failure to do so may result in damage to your engine and/or physical harm to yourself. ZEX™ is not responsible for damage or injuries caused by improper use of this regulator.

Installation Instructions

Step 1:
Remove the nitrous feed line that is attached to the nitrous solenoid inlet. Attach the feed line to the inlet of the Nitrous Pressure Regulator.

Step 2:
Purchase a 6 to18 inch -4AN line and use it to connect the nitrous regulator outlet to the nitrous solenoid inlet. ZEX hose part # NS6598 is ideal for this connection.

Step 3:
Open the nitrous bottle valve and check for any leaks. If no leaks are found, refer to the adjustment and tuning guide to properly set-up the ZEX™ Nitrous Pressure Regulator.



ADJUSTMENT AND TUNING GUIDELINES

The ZEX™ Nitrous Pressure Regulator must be placed within 6 to 18 inches of the nitrous solenoid's inlet. Do not place the regulator at the nitrous bottle end of the feed line. Unstable pressure will result due to the long distance between the regulator and the solenoid.

The ZEX™ Nitrous Pressure Regulator is adjustable from 500 psi to 1100 psi using the Pressure Adjustment Screw located on the bottom end of the regulator. To increase pressure, tighten the bolt clockwise. To decrease pressure, loosen the bolt counter-clockwise. NEVER try to increase the outlet pressure with the nitrous bottle open! Doing this puts too much pressure on the adjustment screw and will eventually strip the regulator's threads. As an example, if you have 700 psi on the regulators gauge and need 900 psi, turn the nitrous bottle off and purge the pressure in the system. Turn the adjustment screw 2 complete revolutions clock-wise, turn the nitrous bottle back on and check your gauge; repeat as necessary. Each complete turn on the regulator's adjustment screw equals approximately 100psi.

Once the system is installed, you may notice that due to engine heat or hot outside temps, the regulator gauge will show higher pressure than you have set it at. The regulator has not failed, this is just the nitrous trapped between the regulator and the solenoid reacting to the heat. Once you activate the system or purge the nitrous, the pressure will drop immediately back to your correct set pressure.

The ZEX™ Nitrous Pressure Regulator cannot give more pressure than the bottle has. For example, if your nitrous bottle is at 800psi, that is the most pressure you will get at the solenoid, regardless of what you have previously set the regulator at.

The ZEX™ Nitrous Pressure Regulator is not a replacement for maintaining proper bottle pressures. As an example, it would not be beneficial to warm the nitrous bottle up to 1200 psi and then regulate the delivery pressure to 900 psi. The excessively "hot" nitrous that is needed to achieve a bottle pressure of 1200 psi will act like it is less dense and will actually flow less, and will make less power, than "cooler" nitrous you will have at a more traditional pressure of say 1000 psi.

The real benefit of the ZEX™ Nitrous Pressure Regulator is that it eliminates the typical horsepower loss that occurs when bottle pressure begins to drop after 3-5 seconds of spraying. A ZEX™ regulated nitrous system will flow the same amount of nitrous from the beginning of your run to the finish line.

The ideal method for using the Nitrous Pressure Regulator is to first set the regulator at your desired outlet pressure; for most racers this is usually 900-950 psi. Warm your nitrous bottle to achieve a pressure that is just above your typical bottle pressure drop during a run. Depending on the jets used, most nitrous systems experience a 50 to 100 psi pressure drop after the completion of a typical ¼ mile run. The larger the horsepower setting, the greater the pressure drop. With that in mind, you would want to warm your bottle up to 950-1050 psi before your run. When you engage the nitrous system, the pressure the nitrous solenoid will see, will never drop below your regulated pressure, assuring you of maximum power for the entire run.

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