

# Common Questions & Answers

**Q: How does nitrous work?**

A: Nitrous oxide is a gas that contains two parts nitrogen and one part oxygen. When the combustion process heats this gas, the oxygen is released. This extra oxygen then supports the combustion of the enrichment fuel the nitrous system adds when it is engaged. The additional fuel that is burned, creates greater cylinder pressure, which makes the extra horsepower you feel.

**Q: How much will a nitrous system improve my performance?**

A: 1-2 second improvements in quarter mile times are typical. Traction limitations greatly affect the improvement seen.

**Q: How long does it take to install a ZEX™ nitrous system?**

A: Our single nozzle EFI systems typically take just 2 hours to install. Our plate and direct port systems generally take 3-6 hours.

**Q: What is the difference between a "wet" nitrous kit and a "dry" nitrous kit?**

A: A wet nitrous kit mixes nitrous and enrichment fuel by means of an injector nozzle that is mounted before the throttle body. This mixture is then drawn into the engine through the throttle body and intake manifold. A "dry" nitrous kit injects only nitrous with it's injector while at the same time, increasing the engine's fuel rail pressure to feed enrichment fuel through the engine's own injectors.

**Q: What is better, a "wet" or "dry" kit?**

A: It all depends on the application. A "wet" kit is ideal for both normally aspirated applications as well as forced induction applications. It can require a little bit more installation time than a "dry" kit, but is easier to tune if greater than stock HP settings are to be experimented with. A "dry" kit is excellent for normally aspirated combinations that have a return style fuel system. They are very easy to install and are a great "first time" nitrous system. It is not recommended that "dry" systems be used on forced induction engines.

**Q: Will nitrous affect engine reliability?**

A: As long as the nitrous system is installed per the instructions and the set-up procedures are followed, there is usually not any increase in engine wear.

**Q: What does it mean to have a 55, 75, or 125 "shot" of nitrous?**

A: "Shot" is a slang term for the horsepower setting your nitrous kit is set to.

**Q: How long does a bottle last?**

A: It depends on bottle capacity and the size of the nitrous shot being used. On the 75hp setting, a 10 lb. bottle will last around 10 quarter mile runs. On the 125hp setting the bottle will last around 6 runs.

**Q: What type of fuel is recommended when I use my nitrous system?**

A: For 4-6 cylinder engines, premium pump gas is required for safe use of your nitrous system when jetted up to 75hp. Above 75hp, racing fuel is recommended for maximum engine safety. For 8 cylinder engines, premium pump gas is adequate for nitrous system settings up to 125hp. Above 125hp, racing fuel is recommended.

**Q: How long can I spray the nitrous system for?**

A: You could spray your nitrous system until the bottle is empty, but the practical limit is usually around 15-20 seconds of continuous use.

**Q: Do I need to change my fuel pump when adding a nitrous system?**

A: If you have basic bolt-ons (performance filter, headers, exhaust, etc.), your stock fuel system should be adequate to support the stock settings your nitrous kit comes with. If major modifications have been done to your engine (heads, cam, turbo, supercharger, etc.) you must upgrade your fuel system. For fuel injected applications, with return style fuel systems, ZEX™ offers an excellent inline "booster" fuel pump (part #82020).

**Q: What is the optimum bottle pressure to run my nitrous system at?**

A: The optimum nitrous bottle pressure is 900-1000 psi. ZEX™ offers a bottle pressure gauge (part #82005) that makes it easy to monitor this.