

## HOLTZMAN ENGINEERING PCT (Pressure Control Technology) Nitrous

Our Nitrous "JET" automatically adjusts with bottle pressure to deliver a more consistent rate. Nitrous bottle pressure is determined solely by bottle temperature, not by the amount of nitrous in the bottle. As the temperature increases, the pressure increases, and this pressure change causes an undesirable change in nitrous delivery when using a fixed nitrous jet. We have addressed this problem with our patented (Pat. 6,938,841) nitrous nozzle which changes jet size with bottle pressure, maintaining a relatively constant nitrous flow over the typical range of nitrous bottle pressures encountered. This nozzle is especially suited to snowmobile applications where nitrous bottle pressures can be as low as 300 PSI but can rise to 900 PSI after the sled is warm. This pressure range when used with a conventional fixed nitrous jet results in about a 100% change in nitrous flow rate. This drastic change in nitrous delivery is NOT desirable, requiring a continuous adjustment of supplemental fuel and causes an inconsistency in engine power.

Holtzman has developed a nitrous nozzle/jet which automatically adjusts to maintain a more consistent nitrous delivery rate with changes in bottle pressure/temperature. This nozzle, used with our supplemental fuel delivery system, provides consistent nitrous supplemental engine power.

In addition to the nitrous kits listed we also offer a selection of nitrous accessories for your shop to allow you to refill bottles on site (nitrous not included).

All of the kits come complete and ready to install, except for the nitrous bottle which must be ordered separately. Direct spray (filter) kits and 3 and 4 cylinder kits are also available. Please call for more info. If you want to add nitrous to your sled we can build a custom system for any application.

All Below PCT Nitrous Kits Now Include Necessary Fuel Jets			
Model Specific PCT Nitrous Kits (no bottle)			
TCI #	MFG #	Description	Retail
207-0501	PCT45A BRX-1	PCT Nitrous Kit - RX1 (35 - 45 hp Boost)	\$819.95-F
207-0506	PCT30AB-Fusion 600	PCT Nitrous Kit - Fusion (20 - 30 hp Boost)	\$835.95-F
207-0508	PCT60AB2-Apex	PCT Nitrous Kit - Apex (50 - 60 hp Boost)	\$999.95-F
Replacement Parts & Accessories for Nitrous Kits (above)			
TCI #	MFG #	Description	Retail
207-2020	PCT-FJ-PP	PCT Fuel Jet 3 - 7 psi (Carb'd Pulse Pump)	\$35.95-F
207-2021	PCT-FJ-FI	PCT Fuel Jet 20 - 40 psi (EFI Fuel Pump)	\$35.95-F
207-2025	PCT-FJ-PJ	PCT Fuel Jet (Gravity Feed)	\$35.95-F
207-0520	Refill Station	Nitrous Refill Station	\$1209.95-F



Nitrous & Fuel Solenoid

NITROUS OXIDE PRESSURE AND FLOW RATE VS. TEMPERATURE

