



Installation Instructions

Fuel Pump Regulators 23803 & 644320 (Deadhead)

Thank you for your purchase! Follow these simple instructions for a hassle-free installation. If you are unsure about installing your new regulator, please consult a qualified technician at your preferred repair shop.

Note: PW Electric fuel pumps (643120-1 & 643140-1) require the use of a fuel pressure regulator. The 23803 and 644320 are referred to as a "deadhead" regulators. This means the fuel "deadheads" between the pump and regulator with the regulator only letting the required fuel at the stated pressure pass to the carburetor. No fuel returns to the tank. We also offer return style (bypass) regulators (PW#644201) if you wish to reduce fuel pump noise & heat, or your brand of fuel pump requires this style.

- 1) Find a suitable location for mounting the regulator (as close to the carburetor as possible and away from heat) using the supplied bracket. **Note: The mounting screws supplied with the 23803 that attach the bracket to the regulator are "self-tapping". Trial fit the screws by "threading" them before mounting.**
- 2) These regulators have one inlet (on the bottom) and two outlets (on opposing sides). The threads on the 23803 are 3/8" NPT and 6AN ORB on the 644320. Use PTFE thread sealant on NPT fittings ONLY and DO NOT OVER-TIGHTEN as damage to the regulator will result and warranty will be void if cracked or damaged. Install fittings as required. (not included) Securely connect your fuel line from the pump to the inlet. For single feed carburetors, either outlet can be used. Plug unused outlet using an appropriate plug, or use for an optional fuel pressure gauge. For dual feed carburetors, you can run one outlet to each fuel bowl if desired.
- 3) Route the outlet fuel line(s) from the regulator to the fuel filter(s) (40 micron or equivalent) and then to the carburetor(s). Check all connections.
- 4) You must check the fuel pressure with an appropriate fuel pressure gauge prior to starting the vehicle. The regulators are adjustable from 4-1/2 to 9PSI. The 23803 fuel pressure regulator comes with an optional spring (not installed) for low pressure applications (1-4psi). It is easily changed by removing the four screws on the top of the regulator, swap out the spring, and replace the top securely.
- 5) The regulator is adjusted by loosening the lock nut on the top and turning the allen head screw. Clockwise increases pressure, while counter-clockwise reduces pressure. Tighten the lock nut after all adjustments. Turning the screw all the way clockwise, will result in excessive fuel pressure, a flooded carburetor/engine and most likely will damage the regulator voiding your warranty. Depending on your application, 5-6 PSI is adequate.
- 6) After following the above instructions, double check all hose connections. Check your fuel pressure and reset according to the instructions above (5).

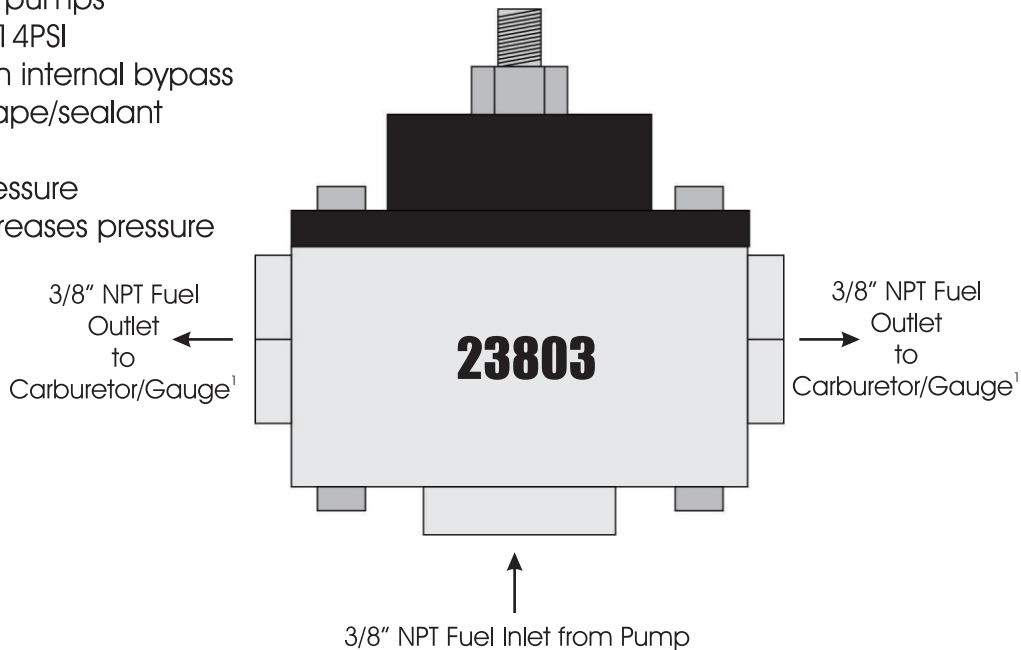
Warranty:

All Performance World fuel pumps and regulators carry a One Year Limited Warranty. Check our website for full details at www.performance-world.com. If you need further technical advice, feel free to contact us at sales@performance-world.com or see the Performance World Dealer where your pump was purchased.

Thank you for choosing Performance World!

23803 - Deadhead Carbureted Fuel Pressure Regulator

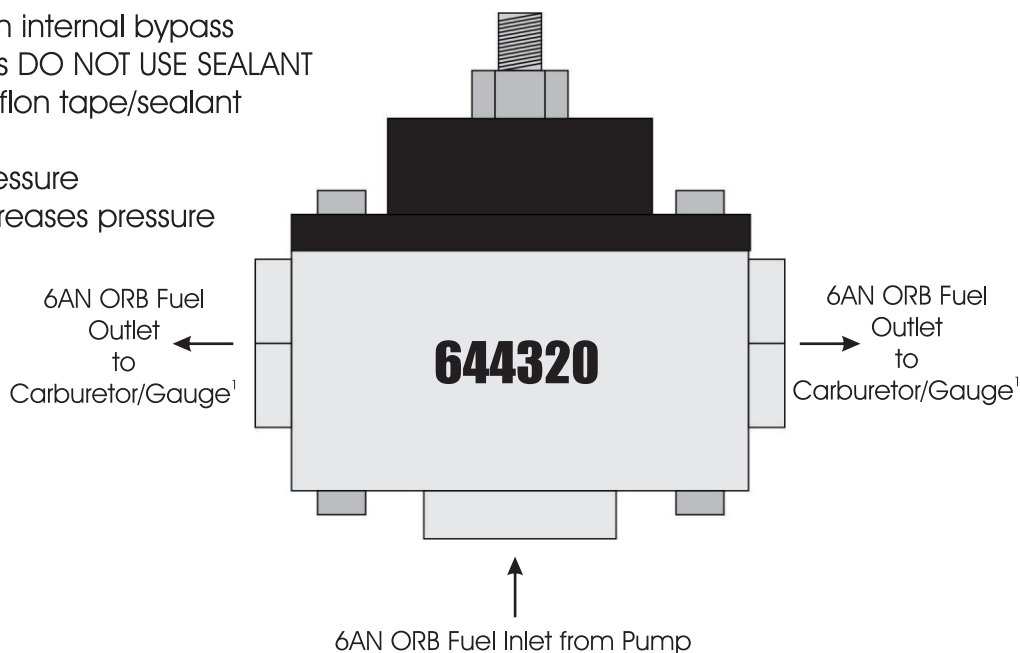
For engines using a carburetor
Not for EFI or use with EFI pumps
Maximum inlet pressure 14PSI
Fuel pump MUST have an internal bypass
NPT ports require teflon tape/sealant
Adjusting screw:
Clockwise increases pressure
Counter-clockwise decreases pressure



¹There are two outlets. One or both can be used.

644320 - Deadhead Carbureted Fuel Pressure Regulator

For engines using a carburetor
Not for EFI or use with EFI pumps
Maximum inlet pressure 14PSI
Fuel pump MUST have an internal bypass
6AN ORB inlet/outlet ports DO NOT USE SEALANT
1/8\"/>



¹There are two outlets. One or both can be used.