Low Pressure Fuel Regulator Instructions –
Please read these directions carefully; there are some brass fittings and related parts you will need to gather up depending on your application.

This low-pressure adjustable fuel regulator **is set at the factory for 2.7 lbs** and has **an infinite adjustment range of between 1 and 4 pounds**. Ideally… you should have a minimum of 1. 5 pounds of fuel pressure under hard engine acceleration. **Measuring and adjusting fuel pump pressure at static engine idle, is not accurate.**

Remember…a higher fuel pump pressure will not makeup for low fuel volume. Excessive fuel pump pressure can also cause problems with the needle and seat in the carburetor(s) that you experience as leaking and flooding of the carburetor(s) and poor engine performance.

INSTALL INSTRUCTIONS –
Using the bracket provided, attach the regulator to the mounting bracket using the two bronze colored self-tapping screws. You want to **mount the pressure regulator between the electric fuel pump and the carburetor(s) as close to the carburetor(s) as possible.** Stay away from exhaust manifolds and any hot surfaces.

The **bottom center inlet of the fuel pressure regulator is marked "IN"** and is where the fuel should enter the regulator. That is where the **5/16 fuel line** should be connected to that comes from the output side of the electric fuel pump. **The threads on the inlet side of the fuel pressure regulator are standard 3/8 pipe, thread.**

Output Options -
If you have a **single carburetor you can use the closest outlet** of the fuel pressure regulator to connect to your carburetor, using the same **5/16-fuel line** as the rest of your fuel system. The rear outlet of the fuel pressure regulator can be used for **a return line to the fuel tank, or as a location to install a fuel pressure gauge to monitor fuel pressure**. Another option is to simply install a brass plug in the second outlet and not use it. **Be sure all fuel connections are leak-proof!**

Multiple Carburetor Applications –

If you have a multiple carburetor application, you can run a 5/16-fuel line from each outlet on the fuel pressure regulator, to each carburetor. That way both carburetors will be regulated alike. You can also **add a fuel pressure gauge** into one of the lines between the fuel pressure regulator and the carburetors to help adjust and monitor fuel pressure.

Tech Tip - When shopping the Weatherhead brass fittings for your installation, remember all of **the threads in the fuel pressure regulator are standard 3/8-pipe thread.** The Weatherhead **3/8" barb style fuel fittings will accept 5/16 fuel line** if you use a little WD-40 on the inside of the fuel hose during installation.

Adjusting The Pressure Regulator –
To adjust the pressure regulator loosen the locknut using a **5/8" box end wrench** and turn the adjustment screw using **a 7/32 Allen wrench** as needed. Turning the adjustment screw **clockwise will increase** the pressure. Turning the adjustment screw **counter-clockwise will reduce** the pressure. Small adjustments are recommended**. DO NOT** turn the screw all the way in so it bottoms out. You could damage the regulator.

Tech Tip– Any changes made to the working fuel pressure **may also change the fuel bowl float level requirements**. You should check and re-adjust the float bowl levels as necessary, to maintain proper fuel delivery and control.

Fuel Pressure Gauge – if your are installing our fuel pressure gauge remember the threads **are standard 1/8 " pipe thread**. It can be installed directly into the outlet of the fuel pressure regulator by using **a 3/8 to 1/8 Reducer.** The fuel pressure gauge can also be installed anywhere in the fuel line between the fuel pressure regulator and the carburetor(s) to measure fuel line pressure.

Questions – 785-632-3450 or email Fifth Avenue Antique Auto Parts at fifthave@oz-online.net Thank You
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