

CARBURETOR POP-OFF PRESSURE TESTER INSTRUCTIONS

To check the "pop-off" pressure of your carburetor inlet needle, remove the fuel line from the carburetor and plug the tester gauge line onto the cap **(Picture #1)**. Pump the tester up now and watch for the tester needle to drop. When it does, this is the inlet needle's "pop-off" pressure. A good needle and seat will "pop-off" at the desired setting, drop ½ to 1 pound and hold. A very slow leakage from this hold pressure won't affect the performance of your carburetor but a complete drop from the desired setting to ZERO on the gauge will cause very poor carburetor performance and must be cured.

Never check your "pop-off" pressure with the carburetor dry. We advise that you fill the line of your pressure tester with WD 40 then when you pump this in, to test the "pop-off" pressure, the needle will be wet and closer to the condition it will be when running. If the Carburetor is all together or on the engine remove High Side Needle.

If you determine to modify or change the "pop-off" pressure of the carburetor, remove all covers, diaphragms and gaskets from the main carburetor body. Now put about (3) feet of fuel line on your pop-off tester and fill the line with WD 40 then put the fuel well adapter into the end of the line.

After making the desired adjustments to the inlet tension spring for a change in "pop-off" pressure, you can now check it by inserting the adapter into the fuel well passage **(Picture #2)**. By inserting the adapter into the fuel well passage (o-ring end of adapter down) and pushing with pressure on the o-ring, you will seal off the pressure to the needle and seat for accurate readings. **NOTE: It is not advisable to stretch the inlet tension spring or cut off the spring where you have an end that stands up. This will cause inconsistent pop-off pressure in the carburetor when racing. We make Tillotson & Walbro Service Kits to maintain and service your carburetor properly. You need to have the proper tools to work with. This kit comes complete with Pop-Off Gauge (0 to 15lbs. or 0 to 30lbs.), fulcrum arm gauge (for proper height), needle and seat socket, needle and seat alignment tool, and fulcrum arm spring shims for ease of setting perfect pop-off pressure, plus complete tuning sheets and instructions. At the very least you need to have a pop-off gauge. This is a must have tool for any Tillotson or Walbro Carburetor user.**

