

914 FUEL PRESSURE REGULATOR

Did you verify the fuel pressure? (No specific absolute pressures given by Rotax)

Fuel PSI must be checked in relation to AirBox pressure

- Fuel Pressure LOW in relation to AirBox Pressure results in Lean Mixture causing power loss and engine damage
- Fuel Pressure HIGH in relation to AirBox Pressure results in a Rich Mixture causing engine roughness and power loss

In order to Check and adjust fuel pressure, you must measure BOTH fuel and AirBox pressures (Dual Manifold pressure gauge 50-60 inch of Merc)

- Fuel PSI is measured at the fuel pressure Regulator at the 1/3 or 2/4 fuel line connection
- AirBox PSI is measured at the screw fitting right next to the Airbox temperature sensor

With AirBox pressures @ 29inHG OR above – Normal Fuel Pressures must be Approx. 7.39inHG (3.6PSI) ABOVE THE AIRBOX PRESSURE

Maximum Fuel Pressure is Approx. 10.3inHG (5.08PSI) ABOVE THE AIRBOX PRESSURE

Minimum Fuel Pressure is Approx. 4.44inHg (2.18PSI) ABOVE THE AIRBOX PRESSURE

(NOTE) at idle or midrange RPM where the AirBox pressure is below standard atmosphere the Fuel PSI value may exceed allowable limits. This is normal and no cause for alarm.

The Fuel Pressure Regulators are PRE-SET at the factory and RARELY need adjustment if at all....EVER!

Adjusting Fuel PSI

- Engine off / mags off
- Turn on both Fuel Pumps
- AirBox pressure should be reading approximately atmospheric pressure and at this point the fuel pressure should be approx. 7.39inHG (3.6 PSI) Above Airbox Pressure
- To adjust fuel pressure, remove the bottom cap nut on fuel pressure regulator (12mm)
- To increase fuel pressure turn the screw Clockwise
- To decrease fuel pressure turn the screw counter clockwise