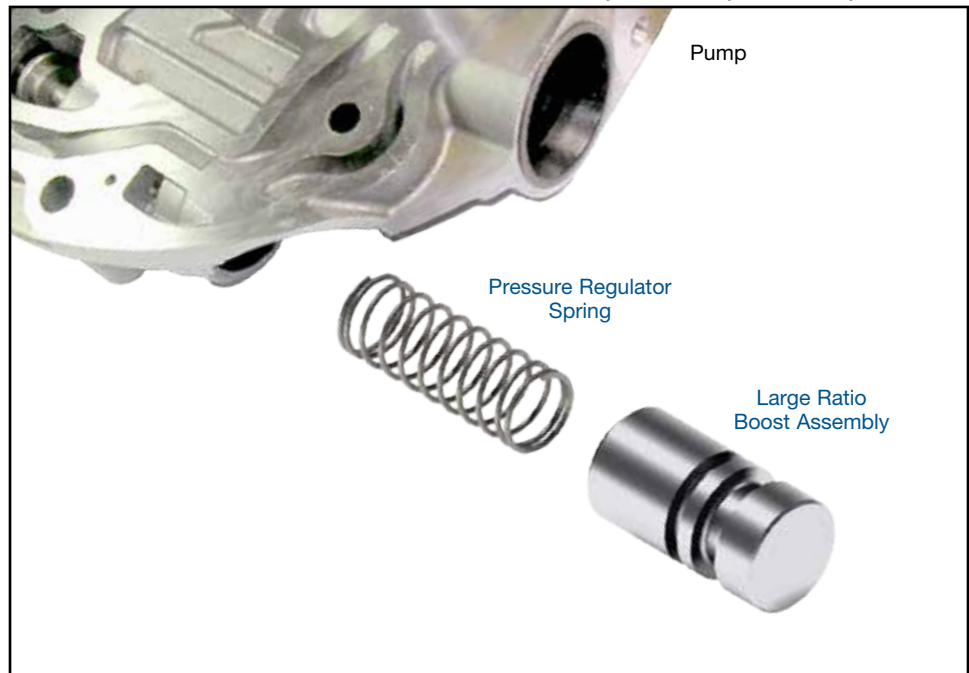


Line Pressure Booster Kit

Part No.
6L80-LB1

- Large Ratio Boost Assembly
- Pressure Regulator Spring

GM 6L45, 6L50, 6L80, 6L90



1. Disassembly

- Remove and discard the OE boost sleeve/valve and large diameter pressure regulator spring.
- Save the OE pressure regulator valve, small bumper spring and retaining pin for reuse.

2. Installation

- Install the OE small bumper spring and the Sonnax large ratio pressure regulator spring.
- With the open end toward the two springs, carefully push the Sonnax boost assembly into the pump body, but only deep enough to reinstall the OE retaining ring.

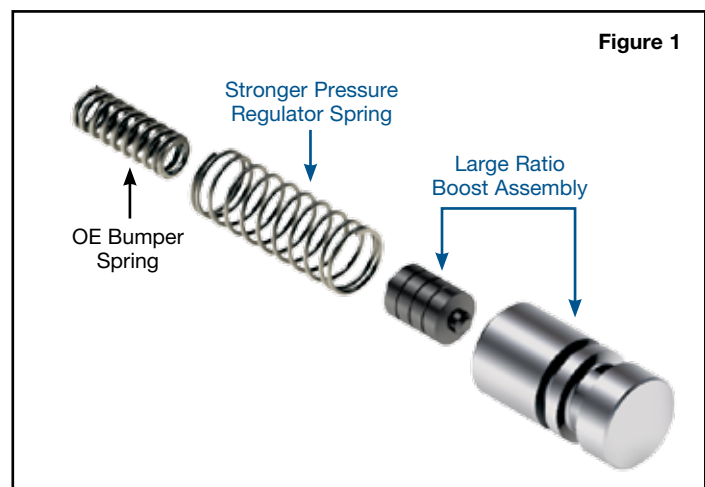


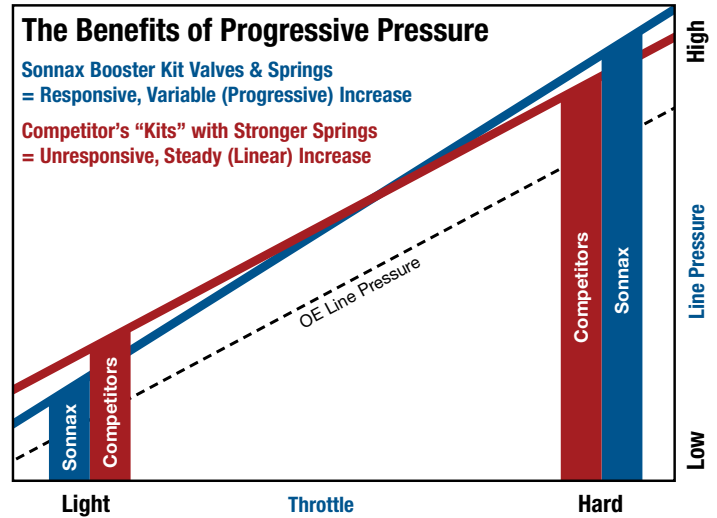
Figure 1

The Prescription for Optimum Pressure

Stronger pressure regulator springs raise pressure equal amounts at idle and maximum pressure. Many aftermarket “kit” springs are a compromise, raising pressure too much at idle and not enough at maximum pressures. Larger boost valves, on the other hand, have a progressive effect on pressure, changing the rate of pressure increase.

The Sonnax large ratio boost valves and stronger pressure regulator springs are designed to work together. This is an ideal combination: smooth engagements and lower load on the pump at idle, but a greater increase in pressure as the transmission is worked harder.

For a more in-depth look at raising line pressure, read *The Prescription for Optimum Pressure* in the Sonnax online technical library at www.sonnax.com.



Pump Tech

Good Pressure Depends on a Good Pump

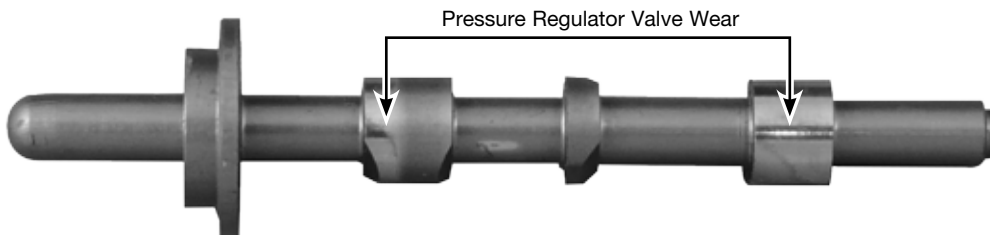
Verify Pump Specifications

Excess clearance equals low pump volume and pressure.

Rotor, slide and vanes
.0008" to .0020" Check with feeler gauge and straight edge over pump face, or with Plastigauge and bolt complete pump together.
Too Loose = low pressure. Too Tight = no line rise, slide is stuck. To check, remove all pump parts and seals, assemble halves with just the pump slide and shake. You should hear pump slide moving inside.
Pump Cover to Converter Housing Bolts
97 in-lb

Check for Wear

- Check pressure regulator valve for wear. If the valve has visible wear, replace with Sonnax pressure regulator valve **104520-03K**.



- Check pump vanes for wear. If pump vane has visible wear, replace with Sonnax pump vane **76742**.