sonnax®
PERFORMANCE

High Performance **TRANSMISSION** Parts

Instructions

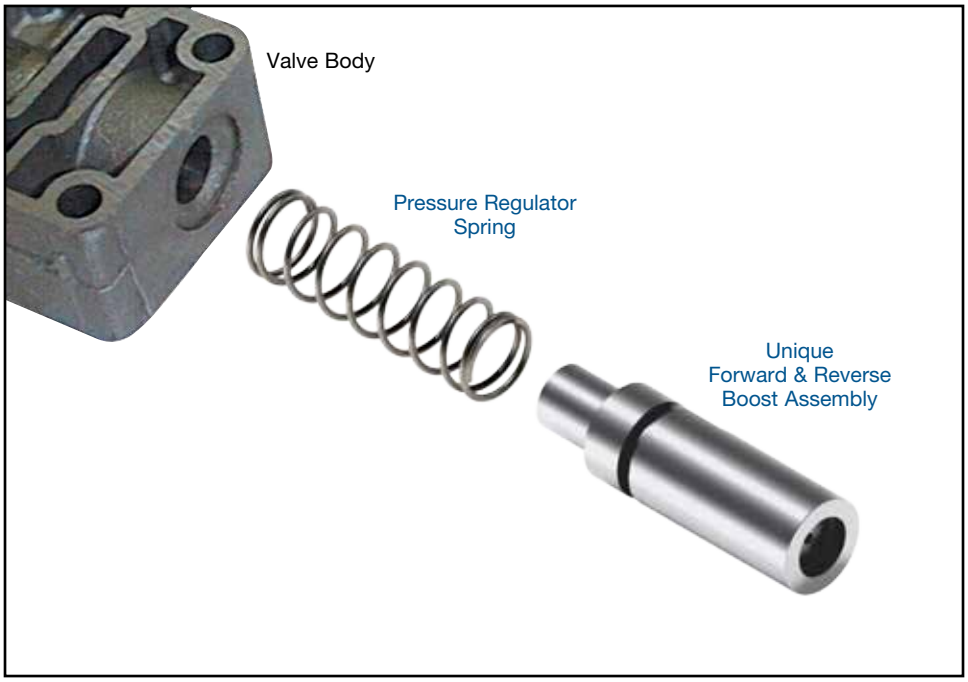
Ford 4R70E, 4R70W, 4R75E, 4R75W, AODE

Line Pressure Booster Kit

Part No. 4R70W-LB1

- Unique Forward & Reverse Boost Assembly
- Pressure Regulator Spring

Patent Pending



1. Disassembly

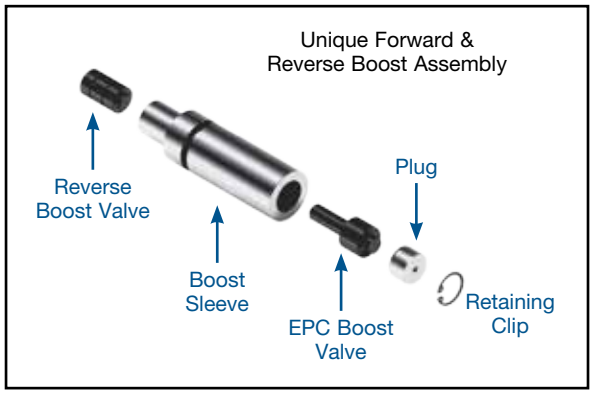
a. Remove and discard OE boost valve assembly and spring. Save OE sleeve retaining clip for use with new boost assembly.

a. Remove and inspect pressure regulator valve. If worn, replace with one of the following Sonnax parts: **76948-01** for '91 - '95 units or **76948-09** for 96'-later units

2. Installation

Install the sleeve into the valve body, open end toward the spring, deep enough to reinstall the retaining clip. The retaining clip groove in the sleeve must be visible through the top of the valve body. This will allow the retaining clip to fully seat on the sleeve.

CAUTION: If installed incorrectly, the retaining clip will protrude above the valve body surface.

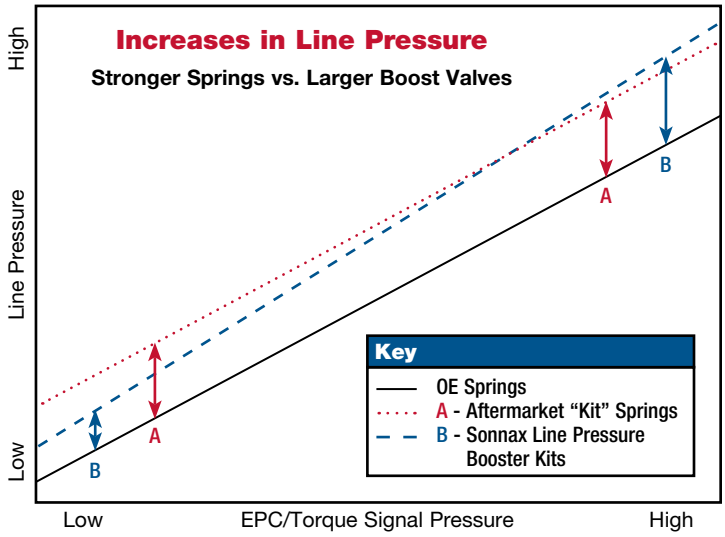


The Prescription for Optimum Pressure

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 (**A** in graph). Larger boost valves, on the other hand, have a progressive effect on pressure, changing the rate of pressure increase (**B** in graph).

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.

Gear Pocket Clearance	.0007" to .0026" Check with feeler gauge and straight edge over pump face, or with Plastigauge and bolt complete pump together.
Outer Gear to Pump Body	.004" max.
Lobe to Lobe	.004" to .006" max.
Pump Housing Flatness	.001"

F5 and later casting number has revised porting and is a preferred upgrade for early production units.

Shift Tech

For detailed information on drilling separator plate orifices, read *Drilling Orifices the Smart Way* in the Sonnax online technical library at www.sonnax.com.