

Boost Valve Kit

Part No.

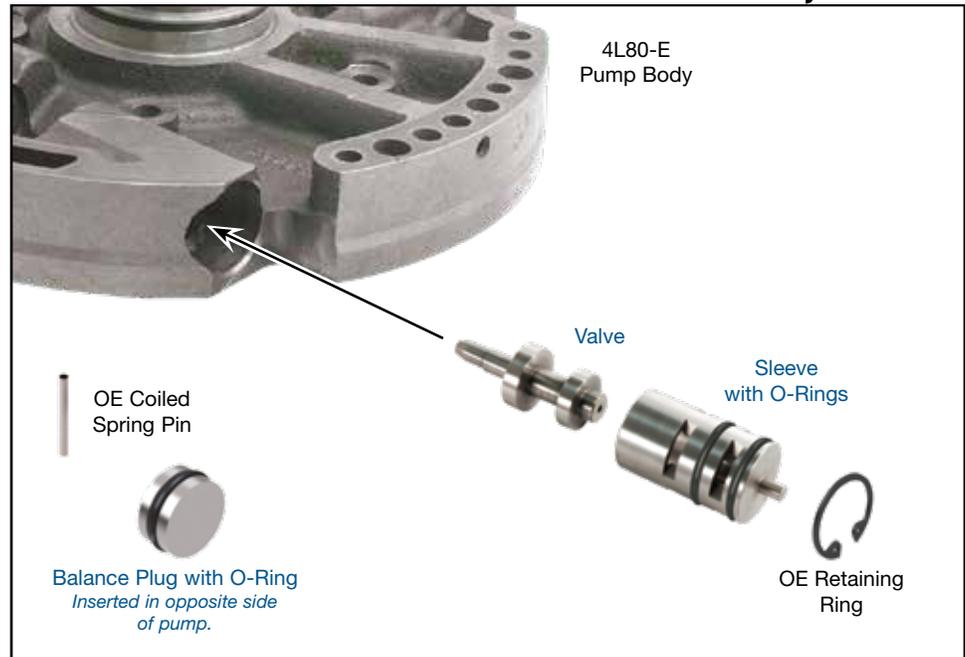
34200-01K

- Valve
- Sleeve
- Sleeve O-Rings (2)
- Balance Plug
- Balance Plug O-Ring



NOTE: O-Ring style kit can be retrofitted back to '89 units. See page 2 for details.

GM 4L80-E, 4L85-E



1. Disassembly

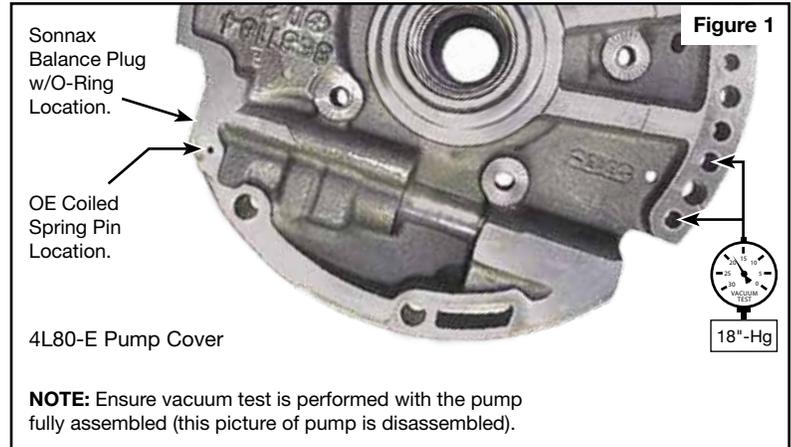
- Remove OE retaining ring, save for reuse.
- Remove and discard OE boost sleeve and valve, while saving OE springs for reuse.
- Remove OE coiled spring pin from balance end and save for reuse.
- Remove and discard OE end plug.

2. Installation & Assembly

- Lubricate all pieces of Sonnax kit and position OE springs with assembly lube. Incorrect location will create high pressure.
- Install Sonnax O-rings into indicated grooves of Sonnax sleeve. Lubricate with Sonnax slippery stick **O-LUBE** and roll on bench to size.
- Carefully push Sonnax sleeve assembly into pump body with the open end towards OE springs.
- Insert Sonnax sleeve assembly deep enough to reinstall OE retaining ring to pump body.
- Install Sonnax O-ring into groove of Sonnax balance oil plug. Lubricate with Sonnax slippery stick **O-LUBE** and roll on bench to size.
- Gently push balance oil plug into bore, taking care not to shear O-ring.
- Push O-ringed plug into bore far enough to reinstall OE coiled spring pin.

3. Final Testing

Vacuum testing at the port(s) indicated holds the recommended minimum 18 in-Hg (**Figure 1**).



Year Differences & Retrofitting Instructions

• '96–Earlier vs. '97–later OE boost valve designs:

Starting in '97 the larger of the two boost valve diameters was decreased from .855" to .830". A corresponding diameter change is also found in the mating boost sleeve.

'97– Later OE boost valves/sleeves can be identified by a groove machined in the end of the sleeve. The design change was made to reduce the maximum Reverse pressure by approximately 40-50 psi. '96–Earlier boost valves can be replaced with the Sonnax design as long as the valve and sleeve are both replaced.

• '89-'91 Retrofit instructions:

Between '89-'91 the OE pressure regulator valve and boost valve used a different design. The pressure regulator valve was longer and the boost valve shorter. The Sonnax boost valve can be modified for use with '89-'91 OE pressure regulator valves.

The retrofit involves shortening both the Sonnax boost valve and the pressure regulator valve (**Figure 2**). For newer OE pressure regulator valve designs no alterations are required.

High line pressure will result from using the late design boost with an early unmodified pressure regulator valve.

