

GM 4L80-E, 4L85-E

Boost Valve Kit

Part No.

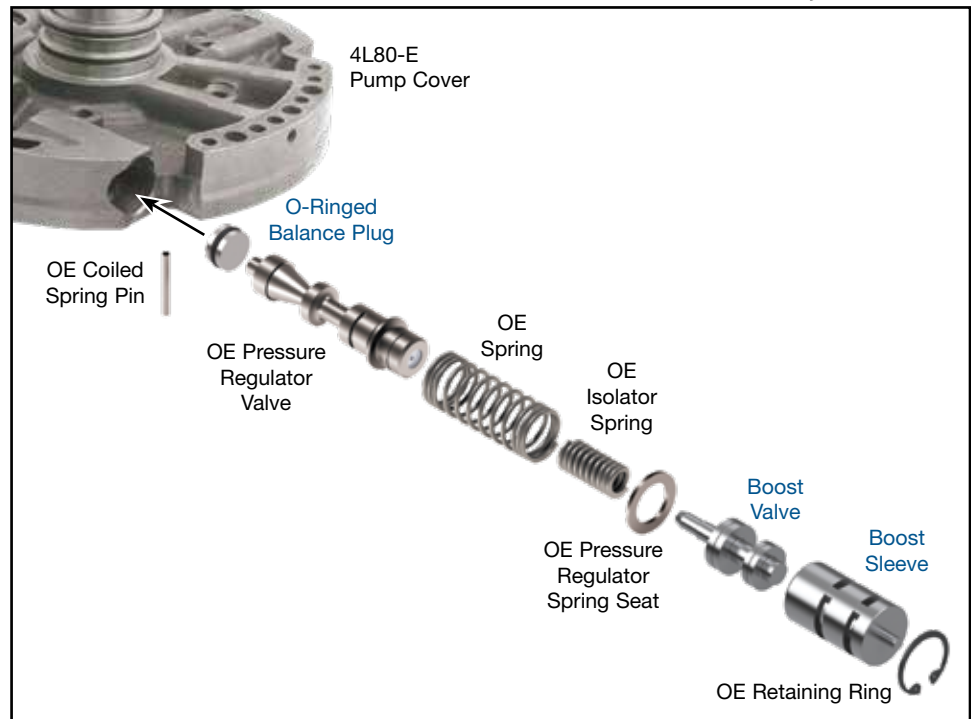
34200-03K

- Valve
- Sleeve
- Balance Plug
- O-Ring

NOTE: Fits '91-later units with factory-style sleeve, no O-rings.



Can be retrofitted to '89-'91 units. See page 2 for details.



1. Boost Valve Disassembly

- Remove OE retaining ring, save for reuse.
- Remove and discard OE boost sleeve and valve.

2. Boost Valve Installation & Assembly

- Ensure Sonnax boost valve is installed in Sonnax boost sleeve with spring stem facing outward.
- Install boost valve assembly into bore, stem first. Ensure OE springs slide over valve stem.
- Push boost valve assembly far enough into bore to reinstall OE retaining ring in casting bore groove.

3. Balance Oil Plug Disassembly

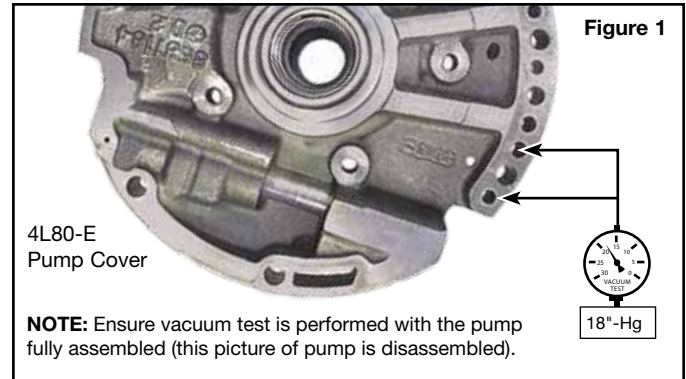
- Remove OE coiled spring pin from casting at balance end of pressure regulator valve, saving for reuse.
- Remove and discard OE end plug.

4. Balance Oil Plug Installation & Assembly

- Install Sonnax O-ring into groove on Sonnax balance oil plug. Roll on bench to size O-ring. Lubricate O-ring and plug.
- Gently push Sonnax O-ringed plug into bore, taking care not to shear O-ring.
- Push O-ringed plug into bore far enough to reinstall OE coiled spring pin.

5. Final Testing

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



• '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.

