

### TCC Apply Valve Kit

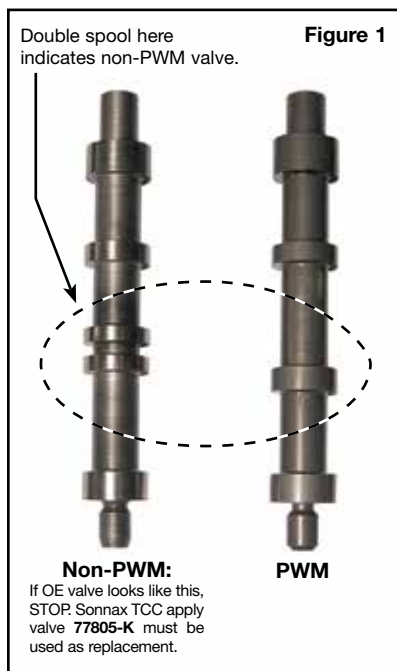
Part No.

**77805E-K**

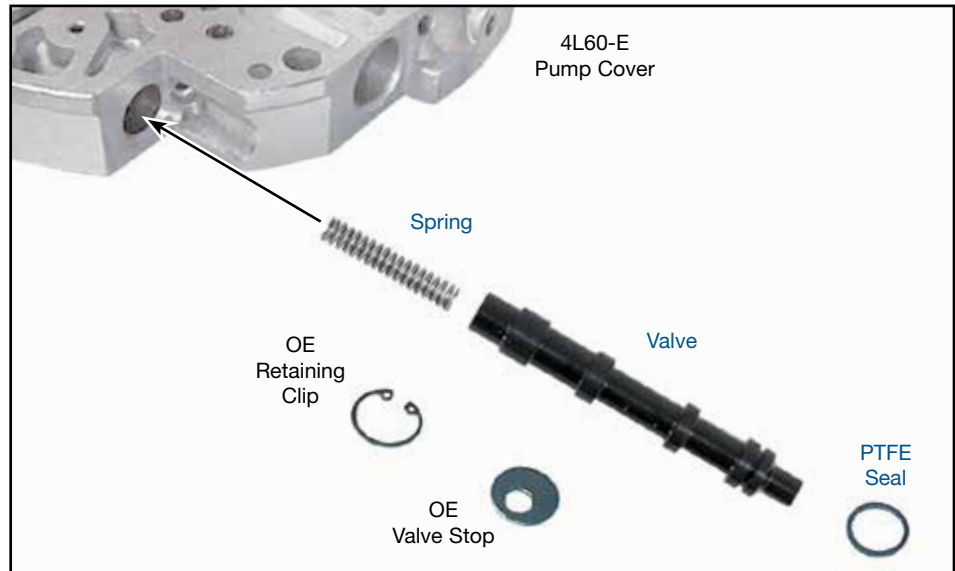
- Valve
  - Spring
  - Seal
- PTFE

**NOTE:** Fits PWM units only. Upon removing the OE valve, lay it next to the Sonnax replacement and verify the spool locations match as indicated (**Figure 1**). Some early PWM pumps used steel TCC valves. Do not use steel and aluminum as the identification for replacement. Mismatching PWM & non-PWM valves will cause rapid converter failure.

**WARNING:** A common modification performed by rebuilders is to enlarge the TCC signal orifice in the pump to help ensure the TCC valve strokes completely during apply. **DO NOT** perform this modification when using the Sonnax valve; the TCC solenoid may become flooded by the increased oil flow and produce uncontrollable TCC apply.



### GM 4L60-E, 4L65-E, 4L70-E



#### 1. Disassembly

- Remove OE TCC apply valve train, keeping OE retaining clip and valve stop for reuse.
- Discard OE valve and spring/springs.

#### 2. Installation & Assembly

- Fit PTFE seal into groove on the end of the Sonnax replacement valve.
- Lubricate valve and PTFE seal with Sonnax slippery stick **O-LUBE**.
- Resize the PTFE seal by carefully inserting the valve backward into the outer portion of the bore and stroking it numerous times.
- Insert Sonnax spring and valve into pump bore, ensuring PTFE ring end of valve is outboard.
- Reinstall OE valve stop and retaining clip, ensuring the rounded edge faces valve stop.

#### 3. Final Testing

Vacuum testing at the port(s) indicated holds the recommended minimum 18 in-Hg (**Figure 2**).

