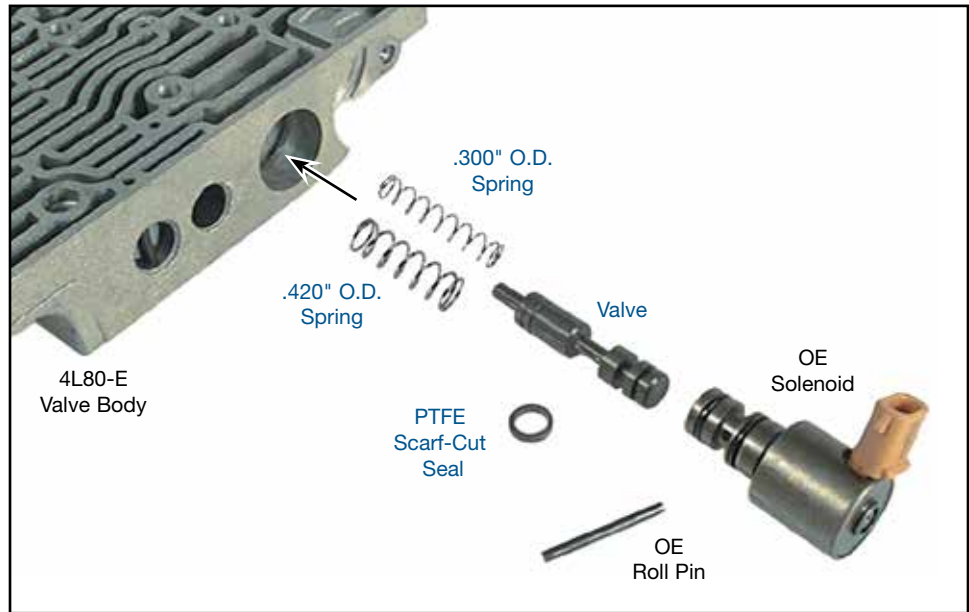


**TCC Regulator Valve Kit**

**Part No.**  
**34994-01K**

- Valve
- Scarf-Cut Seal
- Spring .420" O.D., Selective
- Spring .300" O.D., Selective

**GM 4L80-E, 4L85-E**



**1. Disassembly**

- a. Remove OE solenoid and roll pin, set aside for reuse.
- b. Remove and discard OE TCC regulator valve and spring.

**2. Installation & Assembly**

- a. Apply Sonnax **O-LUBE** or equivalent to seal groove of Sonnax regulator valve, then insert Sonnax scarf-cut seal. Use **O-LUBE** liberally, as it must hold edges of seal even with or below the spool diameter to prevent interference with bore during valve installation.
- b. Place selected Sonnax spring (**Figure 1**) over long stem on TCC valve.
- c. Carefully push spring and valve assembly into valve bore, spring end first. Ensure seal remains fully seated in valve groove as it is pushed past open ports.
- d. Secure valve train by reinstalling OE roll pin.
- e. With a blunt pick or small screwdriver, carefully stroke valve in bore to ensure the seal has not become hung up or compromised during assembly.
- f. Reinstall or replace and secure solenoid.



**NOTE:** If bore interferes with PTFE seal, a small chamfer may be machined into outer bore end to gain clearance for ease of installation. A 15/32" counter bore is recommended. Remove all debris created and clean bore prior to installing components.

**3. Final Testing**

Vacuum testing at the port(s) indicated holds the recommended minimum 16 in-Hg (**Figure 2**).

**Figure 1**

Sonnax Spring Selection	
OE Shift Feel	Firmer Lockup*
Approximately .420" O.D.	Approximately .300" O.D.
* .300" dia. spring best suited for towing applications	

