

GM 4T65-E

TCC Apply Valve Kit

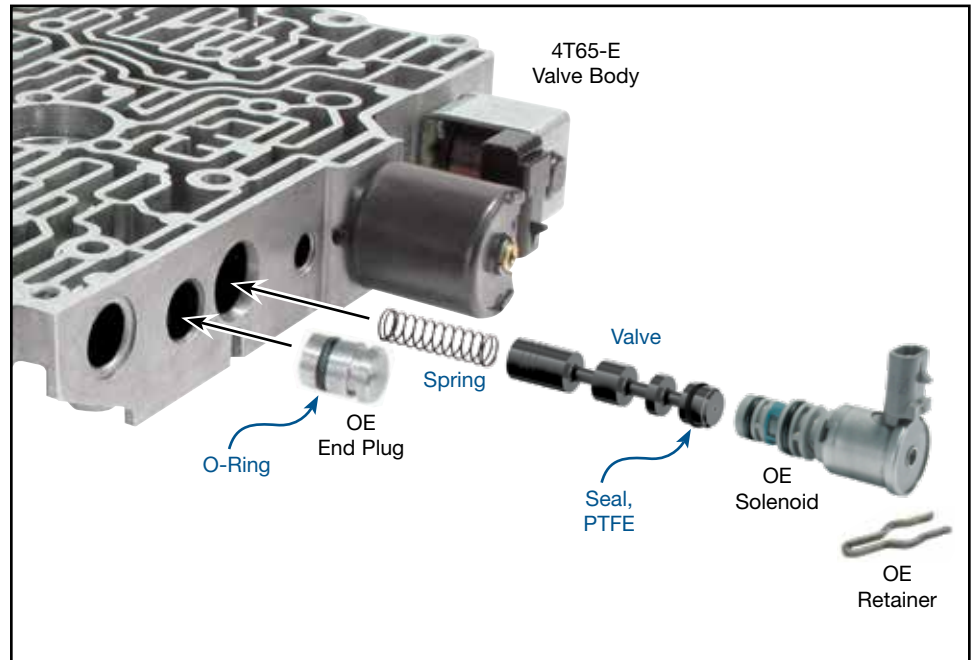
Part No.

84754-43K

- Valve
- Seals, PTFE (2) 1 Extra
- Spring
- O-Ring

Patent No. 7,100,753

NOTE: Always inspect the TCC regulated apply valve for wear. The O-ring in this kit should be used to replace the original end plug O-ring after inspection. Worn valves or bores can be repaired using the Sonnax TCC regulated apply valve & sleeve kit **84754-34K**.



1. Disassembly

- a. Remove OE solenoid retainer and solenoid and save for reuse.
- b. Remove and discard OE TCC apply valve and spring.
- c. Remove OE retainer and end plug from TCC regulated apply valve bore and save for reuse.
- d. Remove OE seal from end plug and discard.

2. Assembly

- a. For proper functioning of Sonnax valve and PTFE seal, the seal must be properly set, centered and sized on the valve prior to assembly.
 1. Fill Sonnax valve seal groove with Sonnax Slippery Stick **O-LUBE** seal lubricant, or an equally dense lubricant. Assembly gel is too thin to retain and position the seal.
 2. Roll Sonnax PTFE seal into a smaller diameter (**Figure 1**) before installing onto valve.
 3. Place Sonnax PTFE seal into the valve groove, ensuring the scarf cut tips do not bend or overlap improperly.
 4. Make a tube about 2 inches long from 3 pieces of paper rolled up; dip one end of the tube into ATF.



2. Assembly (continued)

5. Place Sonnax valve and seal into this paper tube; the seal end of the valve goes into the end of the tube dipped in ATF. Insert seal end of valve first into the TCC solenoid bore (**Figure 2**). Let stand for 45 minutes.

6. Remove valve from valve body and discard paper.

b. To improve assembly and valve function:

1. Use a 35/64" drill bit to slightly chamfer the leading edge of the valve body bore seal circuit. Be careful not to score the solenoid bore.
2. If there is visible wear in the TCC control bore, buff any grooves out with Scotchbrite™ and clean well.
3. The original OE valve may also be used as a bore sizing tool when inserted backward and fully bottomed in the bore.

3. Installation

- a. Place Sonnax spring into valve spring pocket.
- b. Install Sonnax valve and spring into bore, spring end first. Ensure compressed seal does not hang-up as it enters casting bore.
- c. Reinstall OE solenoid and secure in bore with OE retainer.
- d. Install Sonnax O-ring into inboard groove of OE TCC regulated apply valve end plug.
- e. Lubricate end plug and O-ring with Sonnax **O-LUBE** and roll on bench to size.
- f. Carefully insert O-ringed end plug into bore, O-ring end first and secure with OE retainer.

4. Helpful Hints

- a. Check the solenoid for clogged filter screens prior to re-installation.
- b. Lockup on top of 2nd gear or no lockup are common complaints due to a bad TCC/PWM solenoid.
- c. Converter slip can be related to PCM calibration, bad EPC force motor, or a worn TCC regulator bore.

4. Final Testing

Vacuum testing at the port(s) indicated holds the recommended minimum 18 in.-Hg or visual wear is seen at noted outboard bore (**Figure 3**).

