TRANSMISSION PARTS

Instructions

## **AFL Valve Kit**



### Part No. 84596-02K

- Sleeve
- Valve
- Regulating Spring
- Sleeve Retention Spring

# **Tool Kit**



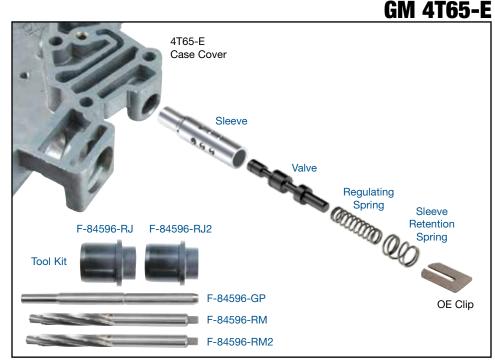
# Part No.

### F-84596-TL

- Reamers (2)
- Reamer Jigs (2)
- Guide Pin

**NOTE:** Sonnax "F-Tool" kits designed to service a specific bore require the VB-FIX, a self-aligning valve body reaming fixture. More information and instructions can be found online at www.sonnax.com.

NOTE: To eliminate codes 1811 and 741 and TCC-related issues, be sure to also inspect the boost valve assembly, TCC regulated apply valve and TCC apply valve. The PCM must be reset/relearned after any valve body repairs. Aftermarket scanner relearn procedure or battery disconnect for 12 hours may not restore drivability and line pressure control. Performing a dealer reflash or a web reflash is frequently the other method to properly restore control.



#### 1. Disassembly

- a. Remove OE parts from AFL bore.
- b. Retain OE clip for reuse and discard other parts.

#### 2. Bore Reaming

Use the **VB-FIX** reaming fixture (**Figure 1**) and the associated "F-Tool" kit **F-84596-TL**, specifically in the order explained below. See the part lineup for "F-Tool" kit part identification.

CAUTION: Do NOT loosen wing nuts on the VB-FIX reaming fixture or the valve body clamp until both reaming steps have been completed.

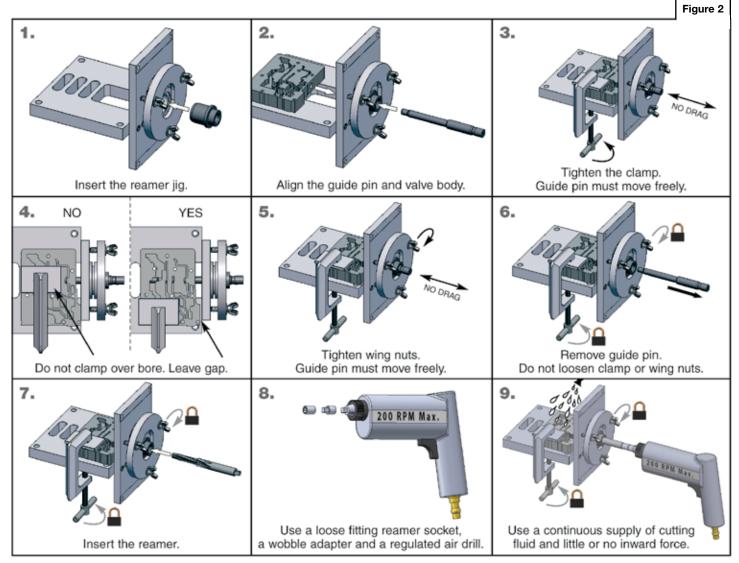
- a. Insert the reamer jig F-84596-RJ and use guide pin F-84596-GP for steps 1–6 illustrated on page 2.
- b. With the reamer jig **F-84596-RJ** still in place, use reamer **F-84596-RM** for steps 7–9 illustrated on page 2.
- GM 4T65-E case cover clamped in place on the Sonnax reaming fixture VB-FIX.
- c. Remove reamer jig F-84596-RJ and insert new reamer jig F-84596-RJ2.
- d. Use the new reamer jig **F-84596-RJ2** with new reamer **F-84596-RM2** and repeat steps 7–9 illustrated on page 2.



#### TRANSMISSION PARTS

AFL VALVE KIT 84596-02K, F-84596-TL

### Instructions



#### 3. Installation & Assembly

- a. Install Sonnax AFL sleeve and valve assembly into the bore.
- b. Install Sonnax regulating spring over the stem of the valve.
- Install Sonnax sleeve retention spring, seating the end against the face of the sleeve.
- d. Compress springs with a screwdriver and return the OE clip to the outboard exhaust port.
- e. Push on the valve at the inboard exhaust port to ensure that it strokes freely and the springs do not coil bind.

#### 4. Final Testing

Vacuum testing at the port(s) indicated holds the recommended minimum 18 in-Hg (**Figure 3**).

