TRANSMISSION PARTS

Instructions

AFL Valve Kit



Part No. 84596-02K

- Sleeve
- Valve
- Regulating Spring
- Sleeve Retention Spring

Tool Kit



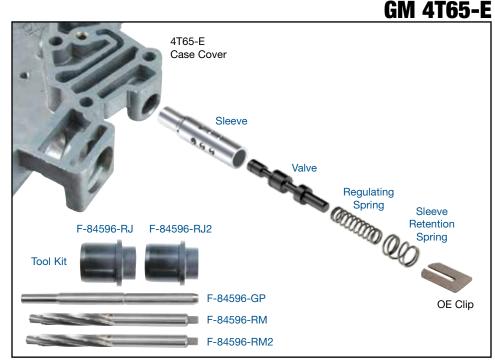
Part No.

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.

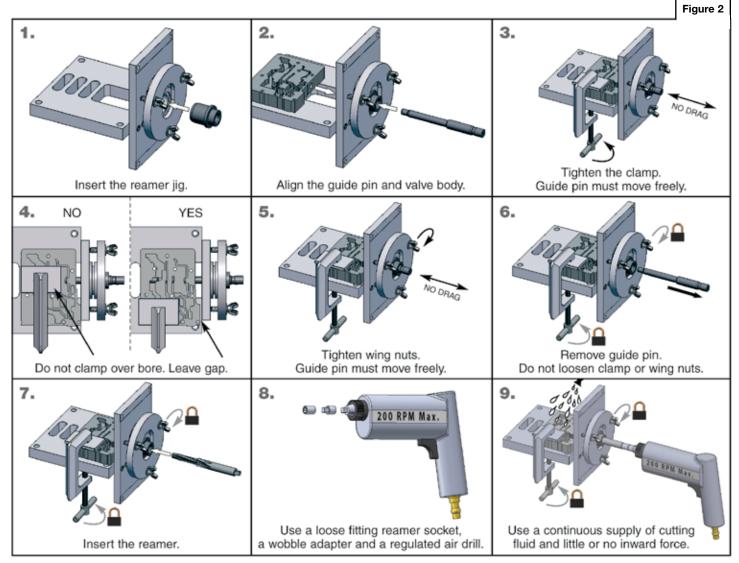
- a. Insert the reamer jig **F-84596-RJ** and use guide pin **F-84596-GP** for steps 1–6 illustrated on page 2.
- b. With the reamer jig **F-84596-RJ** still in place, use reamer **F-84596-RM** for steps 7–9 illustrated on page 2.
- GM 4T65-E case cover clamped in place on the Sonnax reaming fixture 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.



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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.
- c. 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**).

