TRANSMISSION PARTS

Instructions

TCC Regulator & Isolator Valve Tool Kit



Part No.

F-77754-TL4

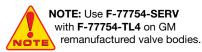
- Roughing Reamer
- Finishing Reamer
- Reamer Jigs (2)
- Guide Pin
- Stop Pin

Isolator Sleeve Tool Kit



F-77754-SERV

- Roughing Reamer
- Guide Pin



Tool kit **F-77754-SERV** is no longer in production but may be available from distributor inventory. If none can be located, bench reaming tool kit **77754-SERV** is available for this reaming operation.

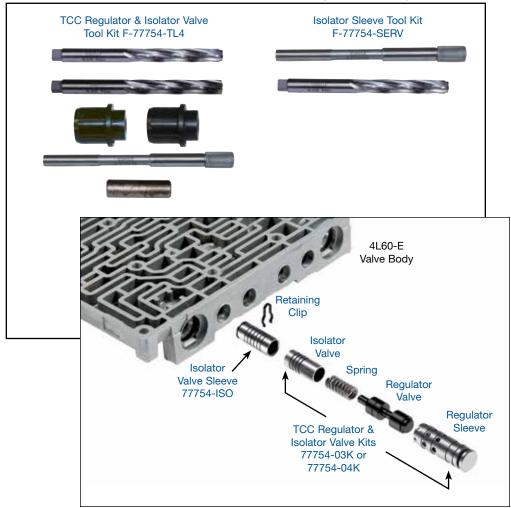
Products above used for installation of the following kits:

TCC Regulator & Isolator Valve Kit 77754-03K Elevated apply/firmer TCC

TCC Regulator & Isolator Valve Kit 77754-04K OE apply for EC3

Isolator Valve Sleeve 77754-ISO

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



1. Bore Reaming

CAUTIONS AND SUGGESTIONS:

- · Turning the reamer backward will dull it prematurely.
- Pushing on the reamer will result in poor surface finish and inadequate and sporadic material removal.
- Never use a crescent wrench, ratchet or pliers to turn the reamer.
- A dull reamer will cut a smaller hole. Reamers can be sharpened, but should only be done by a
 professional tool sharpener. Actual life of a Sonnax reamer before resharpening or replacing averages 50-70 bores.
- a. Clean bore thoroughly in solvent tank.
- b. Generously lubricate bore and reamer with cutting fluid (i.e. Mobilmet S-122, Lubegard® Bio-Tap, Tap Magic™, etc.). For best results, provide a continuous flow of water-soluble cutting fluid (i.e. Mobilmet S-122) during the reaming process.

©2015 Sonnax Industries, Inc. F-77754-TL4-IN 06-29-15



TRANSMISSION PARTS

TCC REGULATOR & ISOLATOR VALVE TOOL KIT F-77754-TL4, F-77754-SERV

Instructions

1. Bore Reaming (continued)

- c. Reamers should be turned by hand using a speed handle or by low speed, high-torque drill at 60-200 RPM.
- d. If unfamiliar with use of VB-FIX and associated F-tool kits, please visit www.sonnax.com for general VB-FIX use instructions.

Option A: TCC regulator and isolator bore in non-GM remanufactured valve bodies

- a. Align and secure valve body on base of **VB-FIX**. Install reamer jig F-77754-RJ and align bore with guide pin F-77754-GP.
- b. Ream bore with roughing reamer F-77754-RM. Blow chips free with low air pressure before removing reamer. To remove reamer, turn clockwise while slowly pulling outward.
- c. Switch to reamer jig F-77754-RJ2. Ream bore with finishing reamer F-77754-RM2.

Option B: TCC regulator bore only, non-GM remanufactured valve bodies

Follow same steps in option "A" after installing stop pin F-77754-01 in bore. Stop pin prevents reamers from entering isolator portion of bore (Figure 2).

Option C: TCC regulator and isolator bore in GM-serviced valve bodies

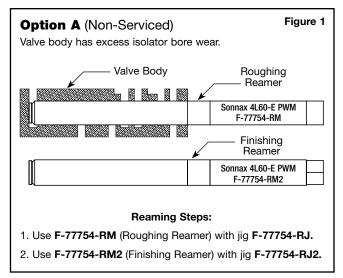
- a. Align and secure valve body on base of VB-FIX. Install reamer jig F-77754-RJ and align bore with guide pin F-77754-GP2.
- b. Ream bore with roughing reamer F-77754-RM3. Blow chips free with low air pressure before removing reamer. To remove reamer, turn clockwise while slowly pulling outward.
- c. Switch to reamer jig F-77754-RJ2. Ream bore with finishing reamer F-77754-RM2.

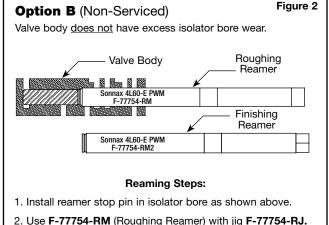
2. Finish and Clean-up

- a. Remove any remaining debris from bore with low air pressure and clean in a solvent tank.
- b. Examine bore after cleaning for surface finish, debris and burrs. Flashing and burrs on the exit side of land and in bores must be carefully removed. A small piece of Scotch-Brite™ material attached to a wire and powered with a drill motor is ideal for the task. However, Scotch-Brite[™] is a very abrasive material and all residual Scotch-Brite[™] debris must be removed afterward to ensure particles do not migrate or remain embedded in the surface. Cleaning this material out should involve several progressive steps using solvent on a lint-free rag.
- c. Clean the reamer after each use and store in its protective tube.

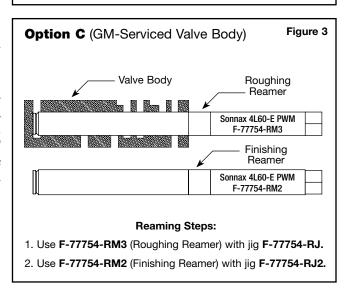
3. Installation

Follow installation steps included with 77754-03K, 77754-04K or **77754-ISO** kits.





- 2. Use F-77754-RM (Roughing Reamer) with jig F-77754-RJ.
- 3. Use F-77754-RM2 (Finishing Reamer) with jig F-77754-RJ2.



©2015 Sonnax Industries, Inc. F-77754-TL4-IN 06-29-15