



TCI[®] 121900/121901 Torqueflite Trans Brake

Shift Pattern: 121900 Park-Reverse-Neutral-1st -2nd-3rd
121901 Park-Reverse-1st -2nd-3rd-Neutral

NOTE: To engage reverse, the Trans-Brake button must be used.

This TCI[®] 121900/121901 Kit Contains:

<u>Qty.</u>	<u>Description</u>
One (1)	Valve Body with Solenoid
One (1)	Rear Servo Shim
One (1)	Electrical Connector
One (1)	1/4" x 20 Pipe Plug

Recommended Additional Parts:

- Intermediate Lever: Stock 3.8 lever or TCI[®] 146901 4.2 lever is recommended
- Bolt-In Rear Sprag: TCI[®] 127000 for Torqueflite 727 Only.

Step 1 Disassemble, transmission and drill a hole in the case using 11/32" drill bit. After you have drilled the hole, thread it using a 1/8" NPT tap. Install the connector provided in kit. **See Illustration One.**

Step 2 Torqueflite 727 only: install boll-in sprag, TCI[®] 127000.

Step 3 High Clutch Drum: Use a four-clutch type. It must match the support of the front pump, wide or narrow bushing. We recommend our aluminum drums: TCI[®] 123900 Aluminum High Drum for 727 or TCI[®] 123955 Aluminum High Drum for 904

High Gear Position: We recommend using a 15-spring piston. A 1/16" bleed hole must be drilled inside the piston. **See Illustration Two.** The area to be drilled is located next to the 90 degree sealing edge between the spring towers. Reinstall all the 15 of the springs.

High Clutch Pack Clearance: .060" to .080"

Forward Clutch Pack Clearance: .030" to .040"

Illustration One

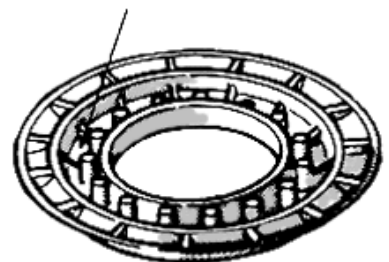
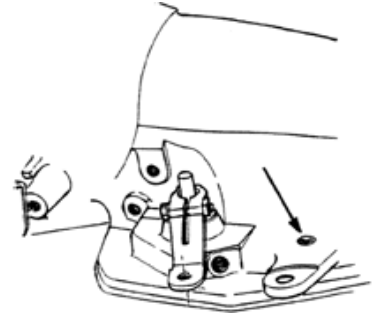


Illustration Two

Step 4 Front Pump Support: See **Illustration Three**. The slot must be cut down to the intersecting hole. Using a mill, turn the high gear feed hole between the ring lands into a 3/8" long slot. Be very careful not to damage the ring and supports.

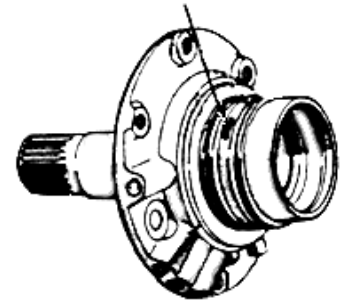


Illustration Three

Step 5 Rear servo piston: Remove cushion spring and install rear servo shim to take up space. See **Illustration Four**.

Step 6 Kickdown servo piston: For 1971 and up only. Locate bleed hole between sealing rings. Using a 1/4" x 20 tap and install a pipe plug to block bleed hole. Make sure the pipe plug is flush with outer surface. Clean all chips thoroughly. See **Illustration Five**.

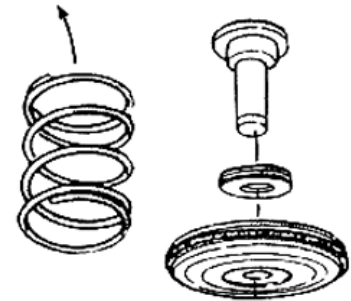


Illustration Four

Step 7 Intermediate Band Adjustment: Flex or hard back band.

Tighten band to 120 inch pounds then back off 1-3/4 turns.

Rear Band Adjustment:

Tighten band to 120 inch pounds then back off 2 turns.

Step 8 Install Valve Body and plug the wire into the electrical connector. Be sure that the wire doesn't interfere with the linkage or drums.

Step 9 Filter: Use only screen type such as TCI® 128500.

Step 10 Use #16 Gauge or larger wire with a 25-amp fuse to activate the solenoid. The solenoid draws a maximum of 7 amps. The solenoid works off of pressure therefore, you will not hear a "clicking" sound.

Note: Line pressure is 135 to 145 pounds for Torqueflite 727 and for Torqueflite 904 line pressure is 155 to 165 pounds. You may adjust the line pressure by turn the 3/16" allen screw counter clockwise to increase pressure.

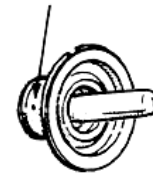


Illustration Five

One turn = ten pounds