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TCI® 521500 C-4 TRANS-BRAKE INSTALLATION INSTRUCTIONS

IMPORTANT! *This valve body will only work on cases with the push in style modulator.*

This fully manual shift trans-brake valve body features a reverse shift pattern. P-R-N-1-2-3

To engage reverse, place the shifter in reverse and push the trans brake button.

The TCI® 521500 does not require complete disassembly of your transmission. However, the transmission must be in good working condition. TCI® recommends the use of Teflon sealing rings on the stator support. If you are building the transmission at this time, the correct clutch clearances are: Forward Clutch Pack .015" to .025" and Direct Clutch Pack .045" to .060" (minimum preferred). Front band adjustment: Loosen the outer jam nut and tighten the band adjusting screw to 120 inch pounds. For course thread screws, back the screw off 1 1/2 turns. For fine thread screws, back off the screw 2 1/2 turns. Hold the screw and tighten the outer jam nut.

Rear band adjustment: Loosen the outer jam nut and tighten the band adjusting screw to 120 inch pounds. For course thread screws, back the screw off 2 1/2 turns. For fine thread screws, back off the screw 3 1/2 turns. Hold the screw and tighten the outer jam nut.

1.) Remove and discard the vacuum modulator bracket, vacuum modulator, modulator pin and the stock modulator valve from the case.

2.) Drain the transmission fluid from the pan, remove the transmission pan. Remove nine valve body attaching bolts (usually 3/8" head). Remove the stock valve body.

NOTE: Be sure to discard the fluid in an environmentally safe manner.

3.) Install the TCI® Trans-Brake valve body onto the transmission. You must engage the selector lever into the manual valve. The kick-down lever is no longer used. Tighten the nine valve body attaching bolts only finger tight at this time. Check that the shift linkage operates properly and then tighten the valve body attaching bolts to 80-100 inch pounds.

4.) Install the transmission filter and the transmission filter retaining bolt. TCI® recommends using blue thread locking compound on this bolt before torquing to 60-80 inch pounds.

5.) Install the Trans-brake valve and spring into the modulator of the transmission case as shown in **Figure 1**.

6.) Next, apply lubricant to the o-ring of the trans-brake solenoid and install the solenoid into the transmission case. Install the trans-brake solenoid bracket using the extension housing bolt you had previously removed. Using a philips head screw driver push the trans-brake solenoid into the case bore while tighten-

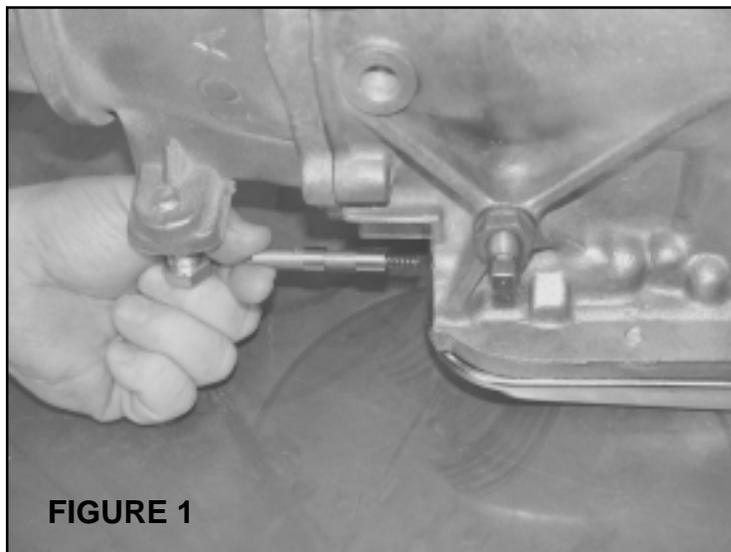


FIGURE 1

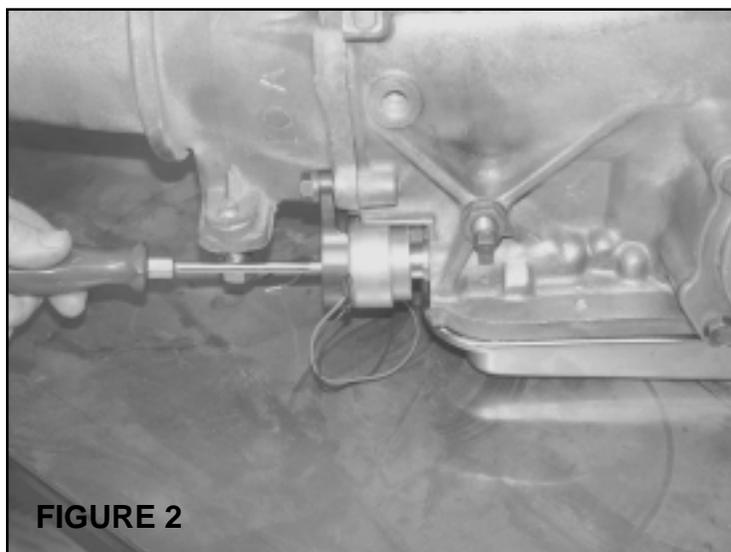


FIGURE 2

ing the extension housing bolt to a torque of 28-35 foot pounds. See **Figure 2**.

7.) Use a length of 14-16 gauge wire and connect a 15 amp fused 12 volt power source to the trans-brake switch. Use another length of 14-16 gauge wire and connect one wire from the solenoid to the other terminal of the trans-brake switch. The other wire from the solenoid connects to a good ground source. **CAUTION! Adjust the shift linkage in neutral. Check and make certain that 1st, 2nd, and 3rd gear detents are lined up exactly or transmission failure will occur. Please call TCI® if you have any questions.**

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