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# INSTALLATION INSTRUCTIONS FOR TH350 CLEAN NEUTRAL TRANS BRAKE KIT (REVERSED PATTERN P-R/N-1-2-3-N) PART #32025

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\* COMMITMENT \* PERFORMANCE \* RELIABILITY \* A WINNING COMBINATION \*

## TH350 CLEAN NEUTRAL VALVE BODY COMPONENTS:

- 1. Valve Body/Machined
- 2. Valve Body Plate
- 3. Solenoid and O'Ring
- 4. Upper & Lower Gaskets
- 5. 3/8-16 Set Screw
- 6. 1/4" Pipe Plug
- 7. Manual Valve
- 8. .280 Servo Spacer
- 9. .580 Servo Spacer
- 10. Direct Clutch Piston Return Springs (qty 17)
- 11. Brake Valve w/ E-Clip & Spring

The scope of these instructions will be aimed at the installation of this kit and it is assumed that the transmission will be rebuilt properly to work with this valve body. If necessary refer to a transmission manual for detailed instructions on disassembly and reassembly of the Turbo Hydramatic 350 transmission.

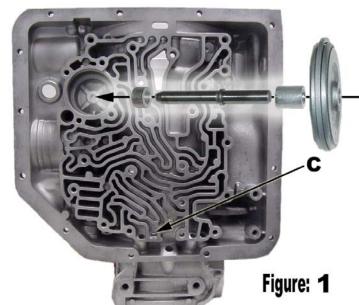
Remove pan, filter, existing valve body and stiffener plate from transmission. Discard all check balls.

Tap hole in location "C" as shown in figure 1 with a 3/8-16 Tap, Be sure to tap only deep enough for the set screw to set flush with top of hole and bottoming out in threads. Install provided 3/8-16 set screw w/ thread lock.

Remove stock Intermediate Servo Piston and spring. Install spacers and piston as shown (See Figure 1). Reinstall omitting spring.

Remove vacuum modulator and modulator valve, discard. Install trans brake valve in case, sliding return spring over the valve until is contacts e-clip. Install solenoid that is provided.

Remove and discard governor. Nothing is to replace it.



COA-32025



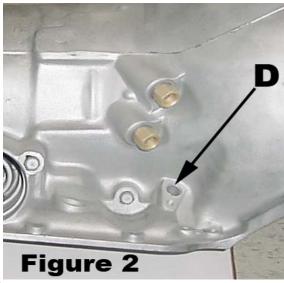
Intermediate accumulator piston must be installed with seals.

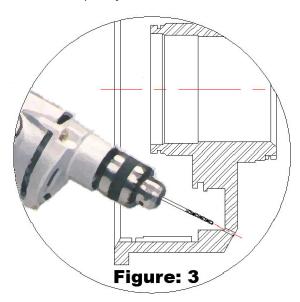
\*IF bore in case is damaged due to broken spring, it will effect the operation of this valve body.

Remove and discard kickdown cable, Tap Hole ¼" NPT. Install ¼" NPT plug provided. Figure 2 Location "D"

This kit requires the use of an aluminum Direct Clutch Drum such as COA-32801. If you are using a different aluminum Direct Clutch Drum which has one (1) or less check balls a .040" constant bleed orifice must be drilled in the drum (see Figure 3)

Remove and discard center lip seal from Direct Clutch Drum (many aftermarket drums do not have a center seal).





Replace Stock Direct Clutch Piston return springs with those provided.

Remove and discard Intermediate Band.

Make sure valve body surface of case is flat, lap with a stone if required. Reinstall new separator plate and new gaskets on each side. Reinstall factory stiffener plate.

Install new valve body using new supplied manual valve. Be sure manual valve is properly connected to shift linkage.

After assembly of transmission is completed, necessary wiring for the solenoid can be done. Position the micro switch on shifter of wherever it is

comfortable. Run a wire from one lead of the switch to a 12 volt source, the other lead is connected to the + wire on the solenoid. The - wire is grounded. Reverse is only active in this valve body by pressing the trans brake button while in the R/N position.

If you have any questions regarding the proper installation and/or operation of a Coan Racing product, please call (765) 456-3957. You may also fax us at (765) 456-3960, or e-mail at <a href="mailto:coan@coanracing.com">coan@coanracing.com</a>.

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