

INSTALLATION INSTRUCTIONS FOR TH350 BRAKE KIT (REVERSED PATTERN - PRN123) (#32020)

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

TH350 brake kit components:

- | | |
|-----------------------------|--|
| 1. Valve Body/Machined | 5. Brake Valve Spring |
| 2. Valve Body Plate #32082A | 6. Direct Piston Return Springs (qty 17) |
| 3. Solenoid and O-ring | 7. .280 Servo Spacer |
| 4. Brake Valve | 8. .580 Servo Spacer |

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 & discard the intermediate band
Remove and discard kickdown cable, Tap Hole 1/4" NPT. Install 1/4" NPT plug provided. Figure: 1
Location "D"

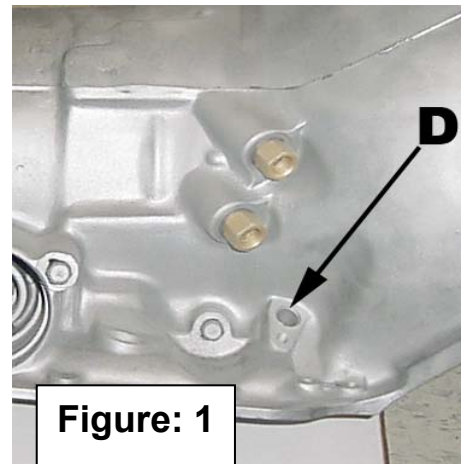


Figure: 1

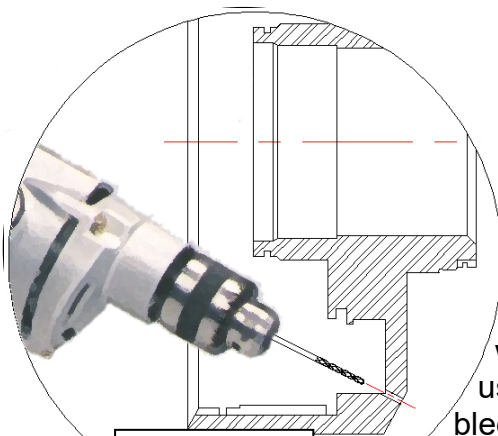


Figure: 2

Remove direct drum from transmission, disassemble to remove piston. If using a stock direct drum, drill a .0625" angled hole in the bottom corner all the way through the drum (Figure: 2). If you are using an aluminum direct drum with check balls (COA-32801) DO NOT drill a bleed hole, if using a Coan modified OEM drum (COA-32802) drill a .040" bleed hole. Remove and discard center lip seal from drum. (The inner & outer lip seals must stay on the piston.)

Reinstall the piston and replace the stock, return springs with the ones furnished. 5 clutches recommended in direct and reverse.

Reassemble the transmission up to the valve body. Intermediate servo spring and spring seat may be discarded. The shorter of the two spacers must be slid on to the pointed end of the apply pin. The longer spacer needs to go on the opposite end of pin and the piston on top of that. Slide the apply pin assembly into its bore. The separator plate will hold it in place. Discard all check balls. (Figure: 3)

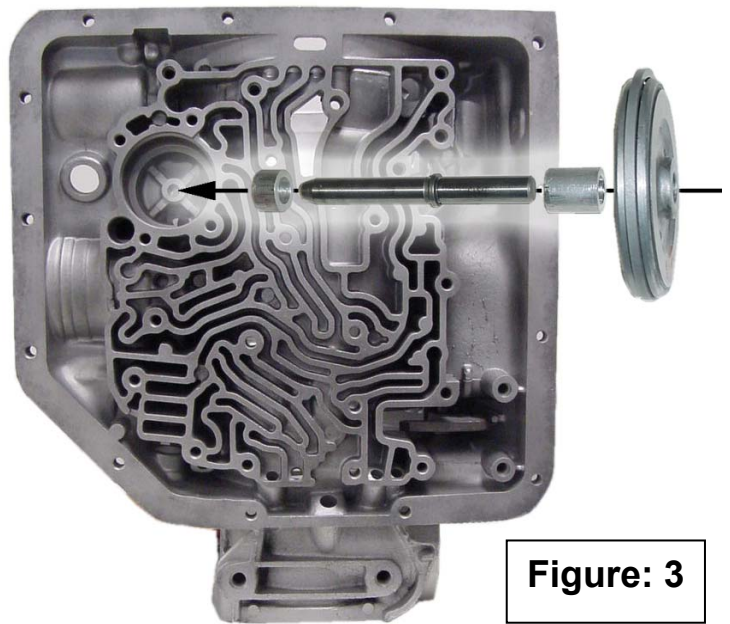


Figure: 3

Using your existing manual valve, install the new valve body, use the new separator plate without gaskets, install stock separator plate support. Remove and discard modulator and modulator valve.

Install the brake valve spring over the outside of the valve and install into the case. Make sure it moves freely and spring is functional. Next, install the solenoid with O-ring and tighten in place with modulator clip.

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.

This kit utilizes the second gear accumulator, the piston with rings and spring must be installed.

Caution: Do not neutral or downshift transmission during shutdown, leave in high gear only.

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 coan@coanracing.com.

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