



# Installation Instructions

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## T-350 VALVE BODY

Part # 353200 - REVERSE MANUAL, NO BAND APPLY  
Part # 353400 - REVERSE MANUAL, WITH BAND APPLY

### PACKING LIST

#### FOR 353200

- Compu-Flow Valve Body
- 353170 Separator Plate
- 353250 Gaskets (2)
- 353240 Support Plate (ATI modified)
- 357030 Servo Spacer
- 407010 Modulator Plug w/O-ring
- 972010 Cup Plug, 29/64"
- Valve Body Decals (2)
- 1 Instruction Sheet

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Packed by: \_\_\_\_\_



**This valve body is not a cure for a worn out or broken transmission. It is advisable to start with a fresh or known good unit. Please read all instructions, start to finish, before attempting installation. If you are not comfortable working with automatic transmissions, refer to an experienced trans builder.**

**This valve body can be installed with the transmission remaining in the vehicle. Some applications may require lowering the rear of the transmission for access to the governor. Note! Automatic transmissions operate at temperatures that exceed 180° F. Allow cool down time to avoid burns. Be prepared for fluid to drip from wherever possible.**

### TRANSMISSION PREP

Raise and properly support the vehicle. Drain the fluid by removing the pan. Remove the filter. Remove the valve body (make note of the linkage hook up.) Remove the support plate. Remove the separator plate and gaskets. There are 4 check balls in the transmission. These should fall out or be on top of the separator plate as it is removed. They may be discarded.

### TRANSMISSION CASE MODIFICATIONS

#### Governor

The governor is behind the round tin cover near the tailhousing. It may be left in place or removed and discarded. It no longer has a function. The cover and retainer must remain in place.

#### Detent Cable -

Trans in car: The cable may be left on the transmission. It will not be hooked up to the engine or the valve body. Simply coil it up above the trans. Removing the cable will create a fluid leak.

Trans on Bench - Plug the detent cable bore. Remove the OEM detent cable from the case. Drive the 29/64" cup plug into the bore with a suitable blunt tool. Drive it in to just below flush.

### Band Apply Valve -

With band apply (353400) - The OEM parts are used. (See Figure1).

No band apply (353200) - Install the ATI servo piston spacer in place of the band apply pin as shown (See Figure 2). Tap the spacer into the piston with a soft face hammer or suitable tool. Install the servo piston with spacer into the case bore. Make sure that the piston is below the case mating surface. Discard all other parts. The band may be left in the transmission.

**Plug the modulator** - Remove the OEM vacuum modulator and discard. The valve remains in the case. Install the gold modulator plug and O-ring.

### IF THE TRANSMISSION HAS BEEN DISASSEMBLED (optional)...

Leave the center lip seal out of the high gear drum. This will improve the 2-3 shift.

ATI 355682 Heavy Duty Drum with 36 Element Sprag. This part will eliminate the failure of the 1-2 roller clutch (the number one OEM part prone to breakage).

### VALVE BODY INSTALLATION

Stack up the gaskets and separator plate. Line up the bolt holes and install the ATI support plate to hold the plate and gaskets in place (do not tighten the bolts at this time). Remove the manual valve from the OEM valve body and install it in the ATI valve body. Line up the linkage and re-use the "S" link. Install the valve body. Do not tighten any bolts until they have all been started. Snug all bolts. Tighten all bolts to 130 in/lb in a sequence starting in the center and working out. Be sure to tighten the support plate. Install the filter and trans pan. Fill with Dexron ATF. Do not overfill! Check for proper shifter adjustment.

Remember! This is a full manual control valve body with a Reverse shift pattern. P-R-N-1-2-3

Other available options:

ATI #353500 - Aluminum Deep Pan

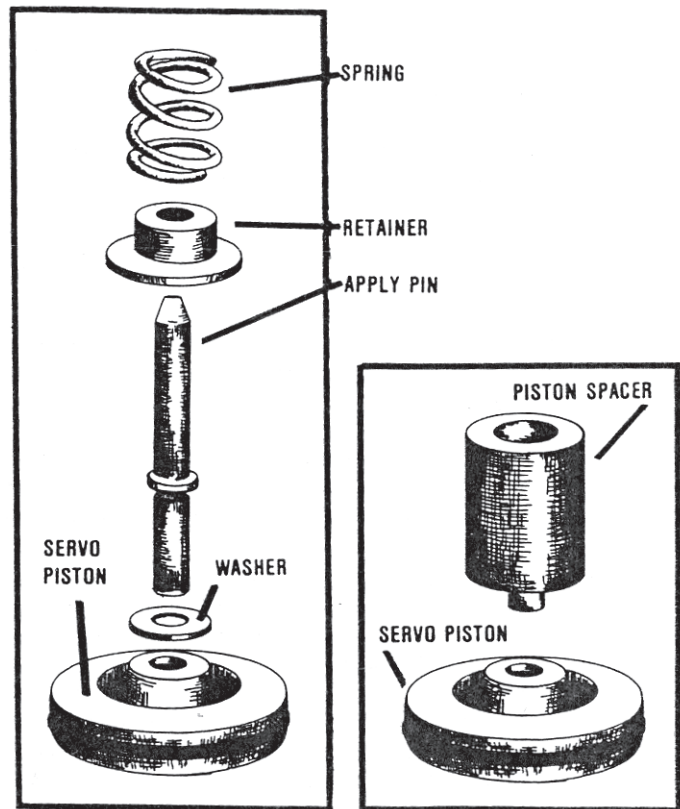


Figure 1

Figure 2