

W140N10145 Fond Du Lac Ave.  
Germantown, WI 53022  
Phone: (262) 251-7777  
Email: [info@autotransdesign.com](mailto:info@autotransdesign.com)  
[www.AutoTransDesign.com](http://www.AutoTransDesign.com)

## ATD TURBO 350 REVERSE MANUAL (P/N: 32148)

### CAUTION

*Please read all of these instructions before proceeding with installation.*

*This or any valvebody should only be installed by a qualified race transmission technician. If you are unfamiliar with any of the operations or terms, take your transmission to a qualified race transmission shop.  
Improper installation may cause property damage and/or death.*

Your 32148 Turbo 350 Reverse Manual Valvebody kit includes the following parts:

- (1) ATD Turbo 350 Reverse Manual Valvebody,
- (1 ea.) Valvebody Gaskets,
- (1) Separator Plate,
- (1) Stiffener Plate,
- (1) Modulator Plug,
- (1) Steel Servo Plug,
- (1) 3/8" Set Screw,
- Instructions & Decals.



### SHIFT PATTERN

This valvebody employs a reverse shift pattern: **Park - Reverse - Neutral - 1- 2 - 3.**

**Do not neutral this or any three speed transmission at speed or the transmission may explode!**

### WARRANTY

This product is warranted for 12 months from date of purchase against defects in material and workmanship. During this period such defects will be repaired or replaced at manufacturer's option. Return any defective products to your supplier. This warranty does not cover damage caused by misuse, alteration, or negligence. All implied warranties, including but not limited to implied warranties of fitness and merchantability are limited in duration. Under no circumstances will manufacturer be responsible for special, incidental, or consequential damages or costs arising from or in conjunction with the installation or use of any product of the manufacturer.

## INSTALLATION INSTRUCTIONS FOR ATD TURBO 350 REVERSE MANUAL VALVEBODY

1. Disassemble transmission.
2. Assemble direct drum with two new lip seals on piston. Discard inner drum seal. Set clutch clearance at .045-.065". Teflon sealing rings and a heat-treated outer race are strongly recommended.
3. Reassemble transmission, retaining intermediate wave steel.
4. Plug governor feed bore with 3/8 inch set screw as shown below.



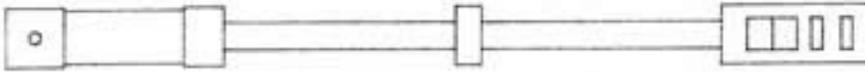
5. Install band servo plug (steel) as shown below.



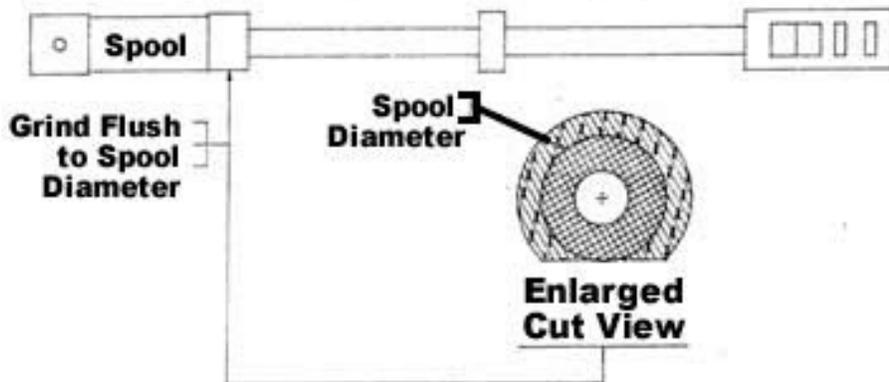
6. Stone or flat file case at the valvebody area. **No low spots allowed!**

7. Install stock modulator valve and blocker plug with o-ring.
8. Grind manual valve as shown in the following drawing.

### 350 MANUAL VALVE (NORMAL)



### 350 MANUAL VALVE (MODIFIED)



9. Install case gasket, separator plate, valve body gasket, new stiffener plate, and valvebody, **in that order**. Start all bolts by hand before tightening. **DO NOT INSTALL ANY CHECK BALLS IN TRANS CASE!**
10. Remove and discard governor.
11. Install new filter and pan.

#### NOTES

- All transmissions should have 5 clutches in low/reverse and in direct. There is no engine braking function in first or second gears. Retain factory intermediate wave steel.
- Use of Teflon sealing rings and a deep pan is highly recommended.
- If you do not put both lip seals on the direct apply piston, there will be no reverse and soft third gear!
- **DO NOT ADD OR REMOVE VALVEBODY COMPONENTS, WITH THE EXCEPTION OF THE MANUAL VALVE. VALVEBODY IS READY TO INSTALL AS SHIPPED.**