

### FEATURES

- Uses Level 10 Hydrosystem™ Technology
- Reduces transmission heat build-up and wear
- Reduces 2nd Clutch Failure
- Manually downshifts to low at higher MPH
- Improves shift feel
- Dual application kit:
  - RV's, Sport Utilities, or vehicles used for towing or carrying heavy loads.
  - High performance street/strip vehicles. Needed when installing supercharger or high-horsepower engines.

### NOTICE

- **This is NOT a repair kit!** The transmission must be in good working order prior to installation.
- These instructions are designed for use by individuals who are familiar with the proper procedures for disassembly, repair, and reassembly of the AOD-E or 4R70W transmission.
- **Work safely!** Wear safety glasses and support the vehicle properly on a lift or by using jackstands.
- **Overheating** causes 9 out of 10 transmission failures.

## INSTALLATION INSTRUCTIONS

**NOTE:** Installation of the Valve Body Reprogramming Kit is very simple and may be performed with the transmission in the vehicle. As you disassemble the valve body, keep track of which bolts came from where - they are of different lengths! **Installation of a bolt of the wrong length will cause SEVERE damage to the transmission.**

**TOOLS:** Other than normal hand tools, you will need an 8mm socket, a 10mm socket, an inch-pound torque wrench (set to 80 inch pounds!) and a bent paper clip (to remove the spring clip in Step 3!).



**1** Allow the transmission to cool down. Drain the fluid and remove the pan and the filter. Be careful you don't get a fluid bath!

**2** Remove the Valve Body and the Separator Plate.

#### Pressure Regulator Valve Train



**3**

**NOTE:** Some transmissions may NOT have this spring!

**8**

Filter

#### Cutback Valve



**4**

**8**

Checkballs (8)

#### Manual Low Servo Signal Valve

#### 3-4 Capacity Valve



**7**



**6**

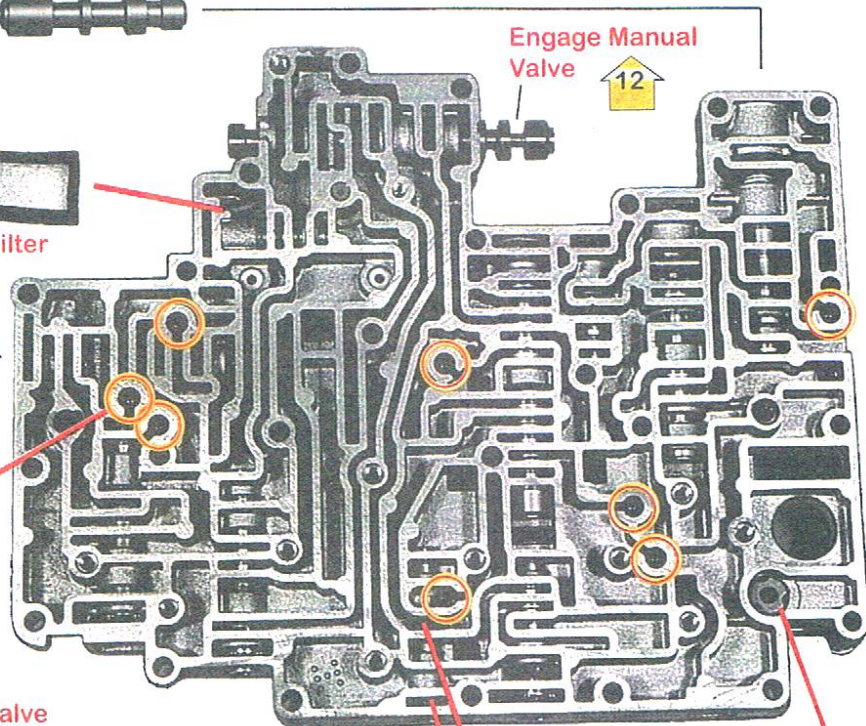
Man. Low Servo Sig. Retainer

**8**

Drain Back Valve

Engage Manual Valve

**12**



**3** Remove the Spring Clip, remove the Pressure Regulator Valve train, discard the original LARGE Spring, install the **new Spring** (Red) and reassemble.

**4** Remove the Retainer and remove the Cutback Valve, discard the original Spring, install the **new Spring** (Black) and reassemble.

**5** Remove the Retainers and remove the Manual Low Servo Signal Valve and the 3-4 Capacity Valve.

**6** Discard the original Spring, install the **new Spring** (White) and reassemble the 3-4 Capacity Valve and its retainer. **Note where retainer goes!**

**7** Discard the original Spring, install the **new Spring** (Silver) and reassemble the Manual Low Servo Signal Valve and its retainer. **Note where retainer goes!**

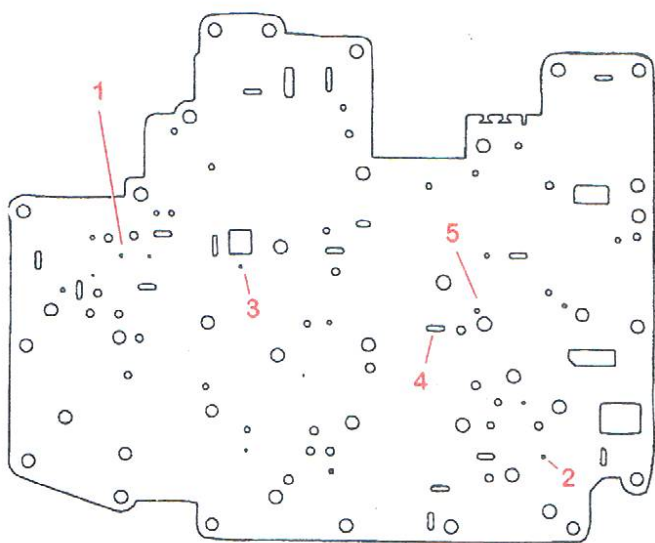
**8** Ensure that the **eight (8) Checkballs**, the **Filter**, and the **Drain Back Valve** are in place.

**LEVEL 10 PRODUCTS**

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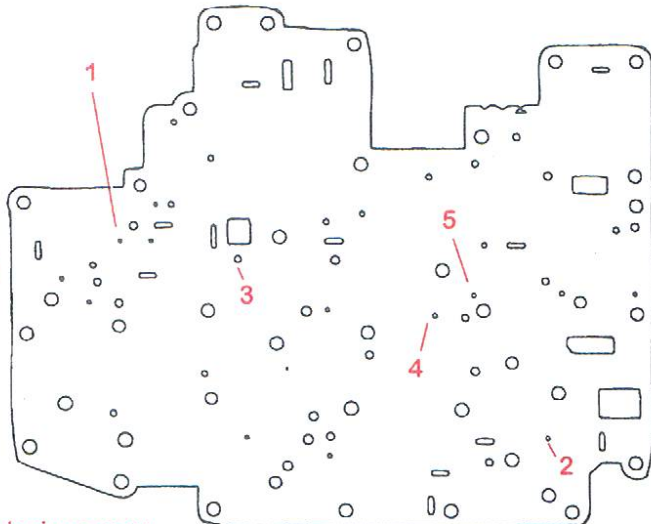
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9  
 4R70W

9  
 AOD-E

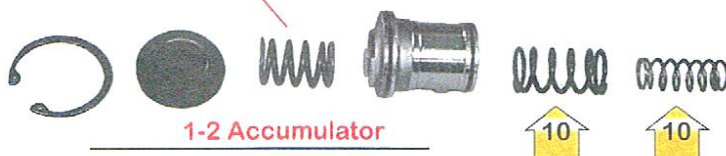


Some Transmissions may not have this spring

9 Drill the **Separator Plate**, as follows:

**HOLE DESCRIPTION**

- 1 .109 (7/64") for Sport Utility or Street  
 .125 (1/8") for Race Applications
- 2 .078 (5/64") for Sport Utility or Street  
 .109 (7/64") for Strip or Heavy Loads  
 .125 (1/8") for Super Charger or High HP
- 3 .125 (1/8") if existing hole is less than .125
- 4 .125 (1/8") if existing hole is less than .125  
 If existing hole is slot, don't drill!
- 5 .093 (3/32") if existing hole is less than .093  
 If there is no hole at this location, use the gasket to mark the location and drill .093



10 Refer to the figure to the right, remove the Retaining Ring and the **1-2 Accumulator**. Discard the two original Springs below the Piston, install the **two new Springs** (Red) and reassemble.

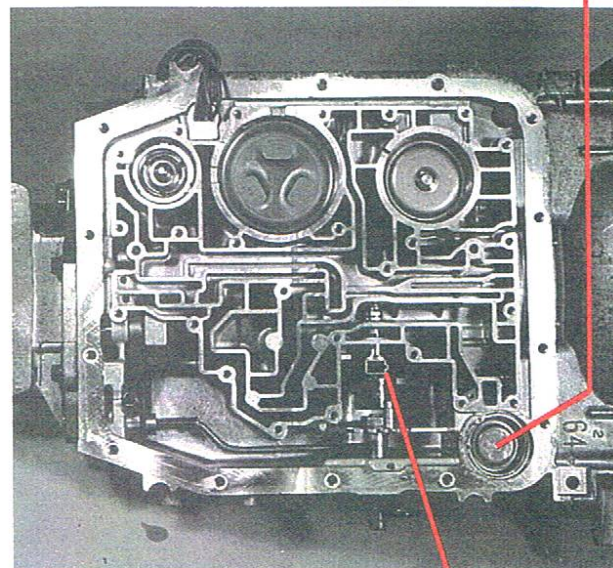
11 To completely optimize the shifting, remove the original Solenoid and install a **Level 10 Super Solenoid**.

12 Install the modified **Separator Plate** and **Valve Body** - be sure to **engage the Manual Valve!** All bolts should be torqued to **80 inch pounds!**

13 Install the filter. **To further protect your transmission, we suggest that you install a new Level 10 filter** (if the rubber seal from the old filter is still stuck in the Valve Body, remove it first!). Install the pan, using the supplied gasket.

14 Add **6 - 8 quarts of ATF** plus a container of **Level 10 Concentrate** or use **Level 10 High Performance ATF**. Start the engine - check for leaks and check the fluid level. **Let the engine run in Park for at least 5 to 10 minutes and recheck the fluid level!**

15 Road test the vehicle and **Feel the Difference™**. Be sure to check for leaks and check the fluid level again, as soon as the transmissions warms up.



Solenoid



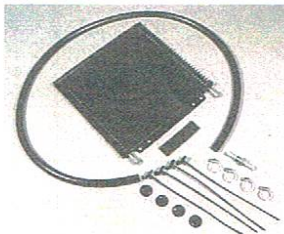
Use a Level 10 High Performance Filter!



The **Level 10 Super Solenoid** will optimize the Electrical Response of the transmission! This unit compliments the optimization of the Hydraulic Response that this **Level 10 Hydrosystem™ Valve Body Calibration Kit** provides!



To provide the utmost protection for your transmission, use **Level 10 ATF** or **Level 10 Transmission Concentrate!**



If you haven't already installed a **Level 10 Transmission Cooler**, now would be a good time to do it! **Excess heat causes 9 out of 10 transmission failures!**

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