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## HP2211R – TH400 Full Manual Reverse Pattern Valve Body

**Shift pattern will be: P, R, N, 1, 2, 3 . No engine braking in low or intermediate.**

This valve body has been designed in a competition application only, and is not intended for use on the street. Please read and follow these instructions carefully.

If you need any kind of technical help or assistance, please feel free to call us any time. Follow these directions carefully. If you do not understand something, please call and ask. Ninety-five percent of all of our warranty problems are due to mistakes made during installation.

Enclosed in your package should be the following parts. Please check to make sure that you have everything that you need.

- (1) TH400 valve body and separator plate
- (2) Valve body gaskets
- (1) Special modulator valve plug
- (1) Pressure regulator spring

If you are installing this product into a racing transmission that is all ready finished, we recommend that you secure the services of an experienced transmission re-builder in your local area. If you are installing this product yourself, and you are not experienced in working with TH400's, please get some type of transmission manual to help you.

This guide is written to assist you in the installation of this product. It is not intended to be a transmission-rebuilding guide.

**STEP 1.** Remove the stock valve body, separator plate and gaskets. If you have governor supply tubes, remove and discard them. Remove and discard all check balls. Also, remove and discard intermediate band servo and spring. See **Figure 1**.



**Figure 1**

STEP 2. Before installing the new valve body, remove the 6 bolts holding the servo cover and remove the servo assembly. Remove and discard the rings shown in **Figure 2** that are on the accumulator piston and discard. Re-assemble the rear servo assembly.

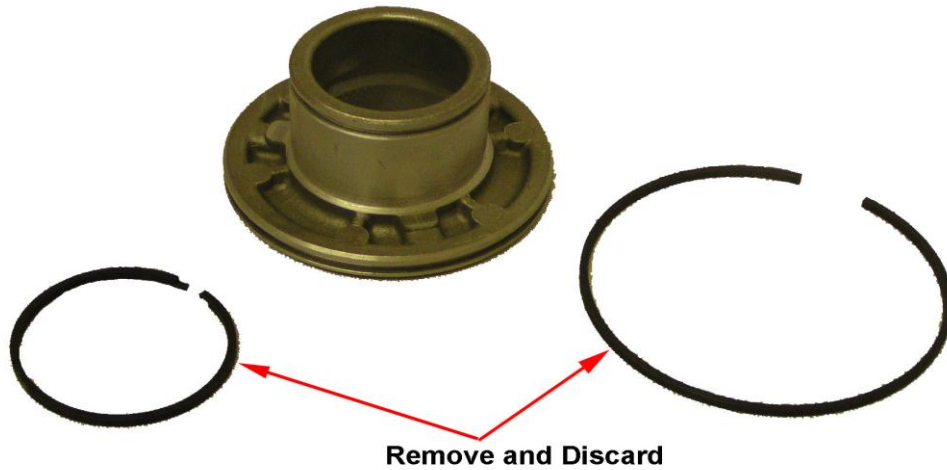


Figure 2

STEP 3. Locate the pressure regulator snap ring in the pump. Push up on the booster sleeve and remove the snap ring. Slowly lower the booster sleeve assembly. The unit is under spring tension. Be careful when handling these parts to prevent injury from parts flying out. You may have to tap on the sleeve to free it from the bore. Remove the booster sleeve and valve, pressure regulator spring, spring retainer, spacers (on some models), and the pressure regulator valve. Replace the OEM pressure regulator spring with the spring supplied in kit. **Do not discard spring retainer.** Remove boost valve from sleeve, grind two large flats on large land of the valve as shown in **Figure 3**. To install the assembly, install modified boost valve in sleeve, and slip the retainer in place with the tangs toward the spring. Slip the spring over the small end so it comes in contact with the retainer. Push the entire assembly up into the pump. Push up on the booster sleeve and install the snap ring. Make sure it seats completely into the groove.

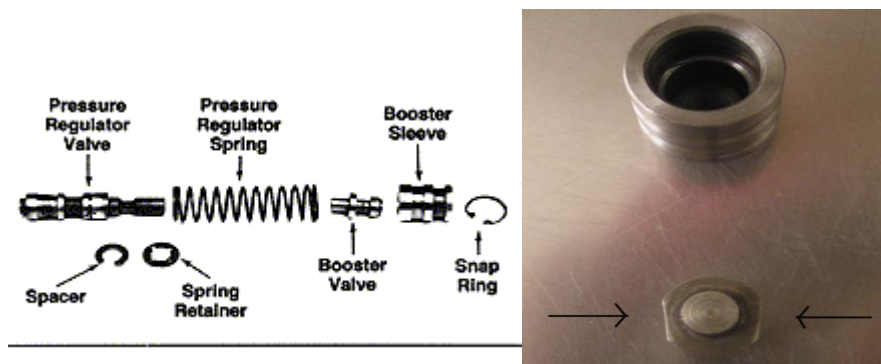
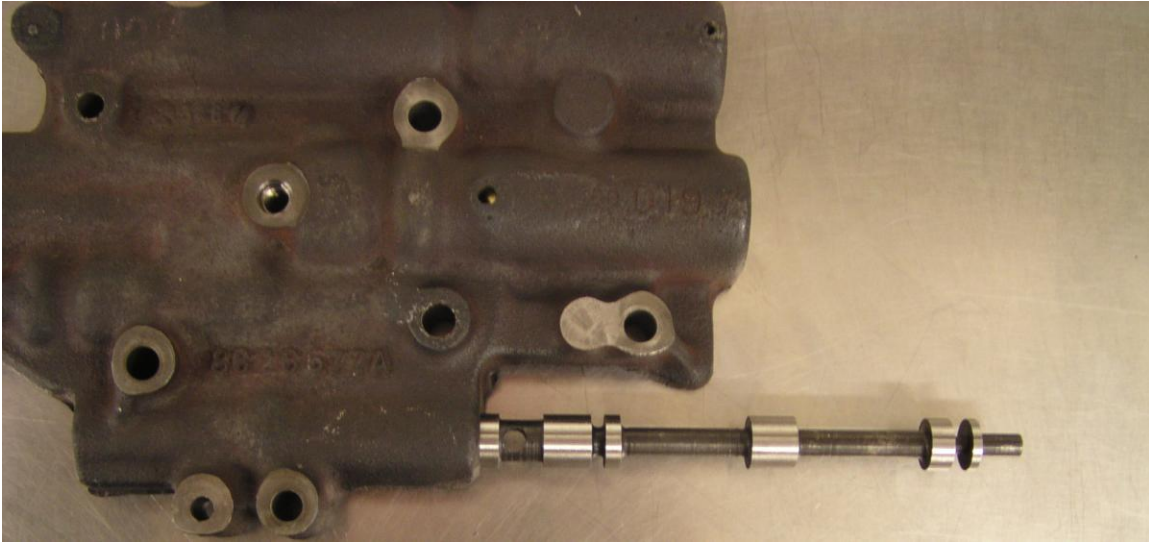


Figure 3

STEP 4. Remove modulator and o-ring and discard them. Install, special modulator valve plug and new o-ring. ***Do not remove the modulator valve from transmission case.***

STEP 5. Install the new valve body, separator plate, gaskets, and manual valve. **See figure 4 for proper valve installation.** Make sure when installing the valve body that you engage the manual valve into the shift linkage. Install filter and pan and fill as required.



**Figure 4**