



2244 W McDowell  
Phoenix, AZ 85009  
1-800-274-RACE  
FAX: 602-340-8429  
602-257-9591

## HP3210R – TH350 Manual Reverse Valve Body

### **Installation and use Instructions.**

For best results, follow the instructions: please read fully before starting.  
Do not overlook any steps.

This valve body has been designed for a competition application only.  
If you need any kind of technical help or assistance, please feel free to call us at any time.  
Follow these directions carefully. If you do not understand something, please call and ask. 95% of all of our warranty problems are due to mistakes made during installation.

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

- TH350 valve body and separator plate
- Servo plug
- Modulator plug

If you are installing this product into a racing transmission that is already finished, we recommend that you secure the services of an experienced transmission re-builder in you local area. If you are installing this product yourself and you are not experienced in working with TH350's, please get some type of transmission manual to help you.

1. Disassemble transmission and file the case flat. No low spots allowed. (Valve body side.).
2. Reassemble drum with new lip seals on piston, (discard lip seal for drum). Set clutch clearance at .040 to .050.
3. Discard intermediate kick down band and servo assembly.
4. Reassemble transmission retaining intermediate wave plate.
5. Install band servo plug as shown in figure 1.
6. Install new modulator plug with new o-ring. Re-use your modulator plug bracket to secure plug.
7. Install new separator plate, your support plate, and new valve body in that order. Start all bolts before tightening any bolts. Re-use your manual valve.

8. Check manual valve position as described in figure 3 steps “A”, “B”, and “C” (Make sure “S” link is hooked up) This valve body uses no check balls.
9. Remove and discard governor. Install filter and pan.
10. After Transmission installation, place car on jack stands and test valve body operations.
11. This valve body employs reverse shift pattern P-R-N-1-2-3.

