

5R55S/W HD2 Reprogramming Kit ®

Fits: 5R55S/W 2002-10 Does NOT fit 5R55N

This kit is about: Upgraded Performance,
Reduces/Prevents: Won't Move - Pump Noise,
No Lockup Hot, Lockup Slip/Shudder
Prevents Band failure common after adding Horsepower.

Trouble Codes: P1740, P0732, 733, 735

This is not a "do it yourself" kit. It's for experienced, professional Transmission mechanics only.

If Trans is in Vehicle Skip Pages 1 & 2.

"Hello Shop: You are going to love the added performance to this trans. Efficient shifts with class!" Gil

1. Flow Control Assembly

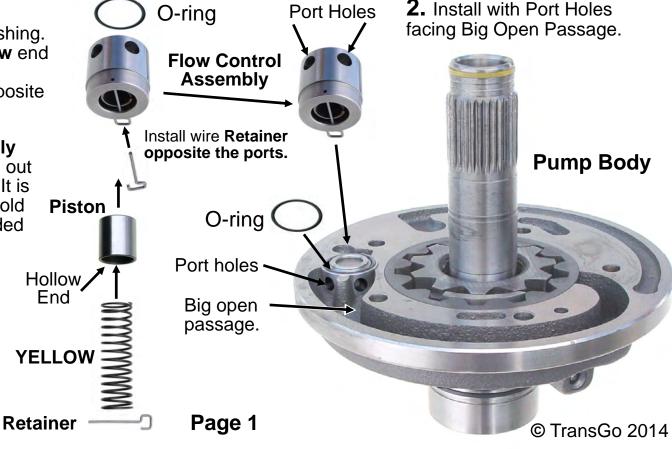
Install **solid** end of piston into bushing. Insert **YELLOW** spring into **hollow** end of the **Piston**.

Install **Retainer** into **Bushing** opposite port holes and under the spring.

Original Flow Control Assembly

Sticks, causing won't move, wears out causing burned friction and noise. It is included in a new pump, and not sold separately. We believe the upgraded design will outlast the original part.





1. Assemble & Align Pump

Align pump **BEFORE** installing front seal.
Start bolts, leave pump halves loose. Slide **Pump Tool**over stator spline. Push tool, while wiggling pump body
making sure tool enters and snugs into the pump bushing.
Tighten the pump bolts to 18 ft lbs.



If Trans is in Vehicle Skip this page.

High Temp Low Shrink Direct Clutch Rings

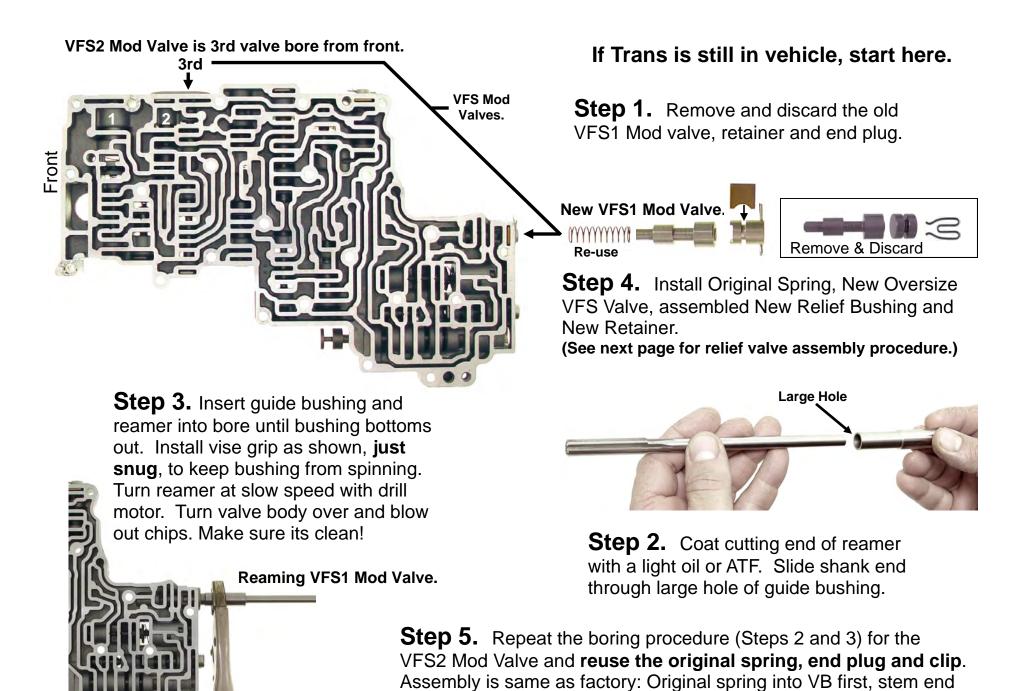
2. Install **Rings** on support. Don't squeeze ends together firmly, that could cause ring to be stuck in the groove.

Delay forward or burned direct clutches? Check for this:

With sealing rings removed look for cracks on the edge of the metal sleeve that continues under the bearing. Replace support if found. Over-heating of the trans increases this possibility.

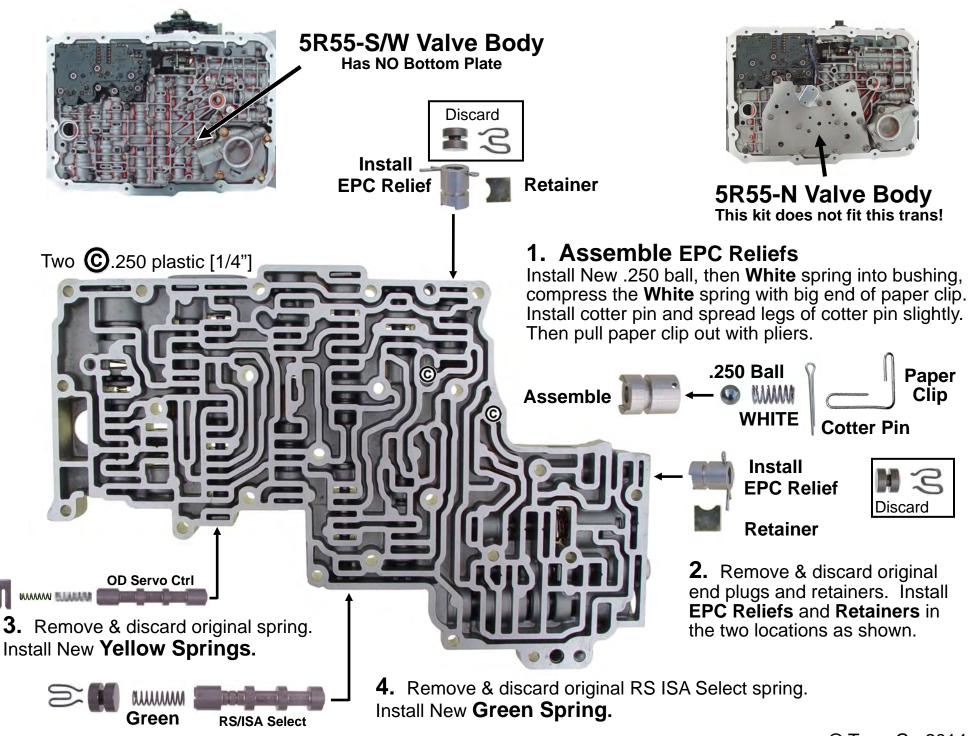
Page 2

© TransGo 2014



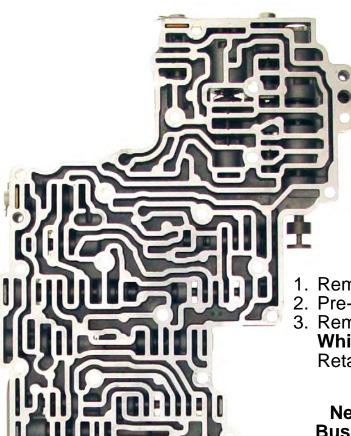
5R55W/S HD2 28 Oct 2014 Page 3 © TransGo 2014

of new valve into spring then original end plug and clip.



Lockup Valve Upgrade

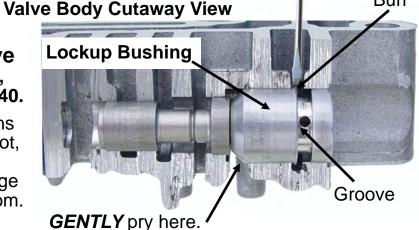
IMPORTANT: The "W" retainer makes small burr on the inside edge of bushing groove. Using sharp end of a drill bit or sharpened screwdriver, carefully scrape off burr. Then remove bushing by **GENTLY** prying thru opening in bottom of VB.



New Lockup Valve No lockup, Shudder, Slip, and/or Code 1740.

LISTEN UP: If the trans has no lockup when hot, but the fluid and filter look OK: Then this page will fix it from the bottom.

Have Fun, Gil



Burr

1. Remove and discard original spring, lockup valve, bushing & inner valve.

2. Pre-fit new Lockup Valve. Make sure valve freely strokes to bottom of bore.

3. Remove new Lockup Valve and reassemble in the following order: Install **New White spring** and **Lockup Valve**. Install New Bushing and Inner Valve. Install Retainer. Lock-up will have **smoother engagement** & **more** capacity.

New Lockup Valve, Bushing & Inner Valve





Re-Use

Remove & Discard Original Parts



Additional information for reducing comebacks.

Wrong Fluid Level is BIG Problem:

Check/Fill with Vehicle level, Engine running, Selector in Park. **TEMPERATURE: NOT HOT or Cold.** Must be 80° to 120°, warm to touch and yet be able to keep your hand on the pan. Remove *Allen* plug in center of pan drain plug. Install Mercon 5 fluid thru Fill Hole, until fluid flows with **steady stream** out Allen plug hole. Reinstall Allen plug with sealer.

Fill Hole:



Overfull: Fluid will burp into bell housing. ©

Check Level:

Must run full stream out this hole. If just burping out--it is not full.

Codes PO732 & PO735, 1-2 Slide Bump, 2-3 Flare, 4-5 Slide Bump or Trans has Burned OD Band.

Drain Plug

Worn OD Band Servo Pin Bore Inspect bore in case for wear. If pin bore is worn, BIG leak at OD servo.



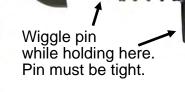
Repair kit available **www.servobore.com** Or call 715-458-2617--

LOOK HERE:

Intermediate and Overdrive band servo struts install with short side towards VB.



OD & Intermediate Band Adjust Tighten adjusting screws snug with short wrench. Back off two turns and tighten the locknuts.



5R55W/S HD2 28 Oct 2014 Page 6 © TransGo 2014