TF-1 REPROGRAMMING KIT[™] Heavy Duty & High Performance

This Kit fits:

1960up Alum Torqueflite Rear Drive Three Speed

*Note: Optional Gear Command is not available on 1960-65 models. See page 6 for details.

Got a Four Speed? Use TFOD-HD2

This is not a "do it yourself" kit. It is for the Experienced, Professional Trans Mechanic only.

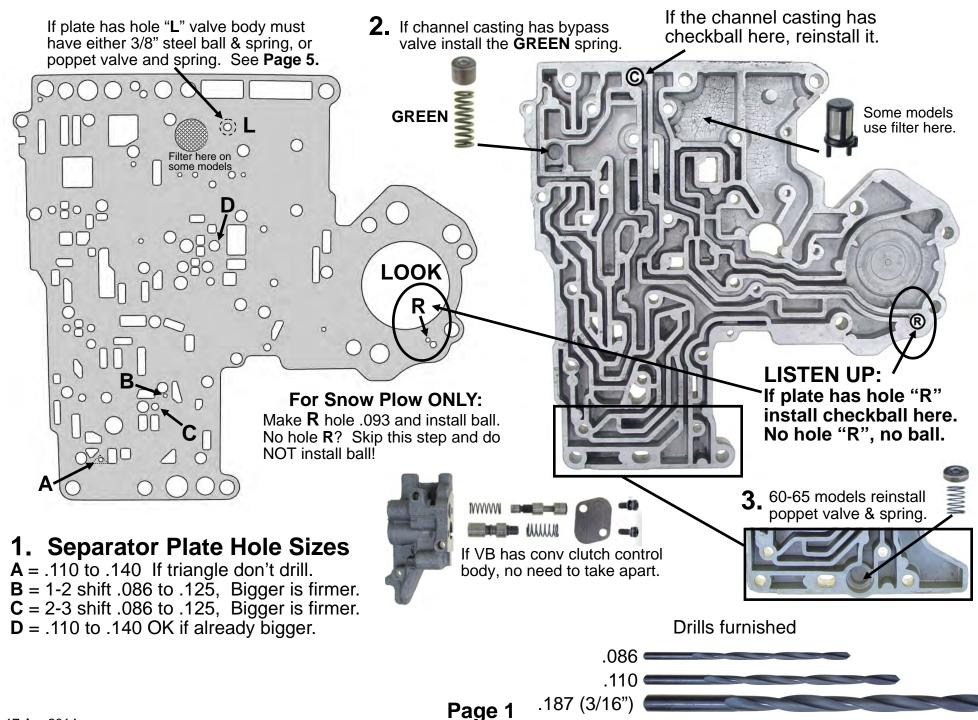
Short, Firm Shifts with Performance, Durability and "CLASS" Shift Command Feature:

Holds 1st and 2nd to any engine speed--Backshift to ANY gear you want

Assures lube flow even with heavy loads on long hills. Reduces drainback and leak out the vent and side seal. Reduces killing engine in reverse.



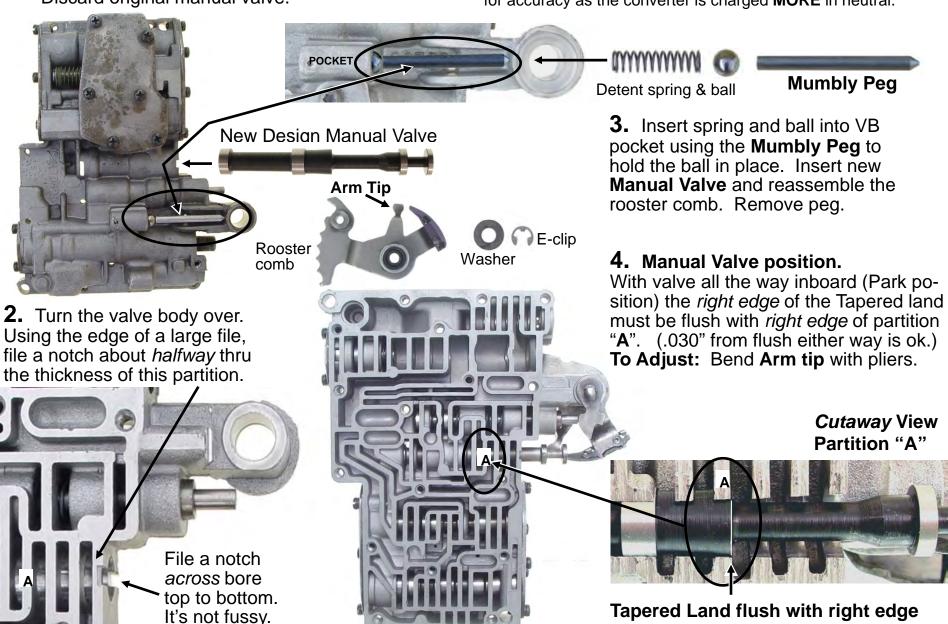




1. Remove E-clip & washer. Remove rooster comb, being careful to catch ball & spring. Discard original manual valve.

1960-65 models with Rear Pump Skip this page!

Fluid level checking: While the new manual valve provides oil to the converter in park, **DO** check fluid level in **Neutral** for accuracy as the converter is charged **MORE** in neutral.



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of Partition "A"



If the trans has a lockup converter, drill **two** .086 to .096 [3/32"] holes down *thru* bottom of the most *outboard* passage.

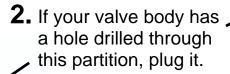
1977up Type VB

Has Six or Seven Passages

Seven Passage Type 1 2 3 4 5 6 7

Six Passage Type

1 2 3 4 5 6



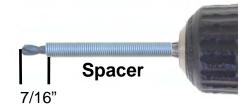
3. If VB has barrier here, in direction of the arrow drill thru it with .125 (1/8") drill.

4. Install **Drill Plate** on VB this side up. Use two short endplate screws to hold drill plate.

Borrow 2 short endplate screws.

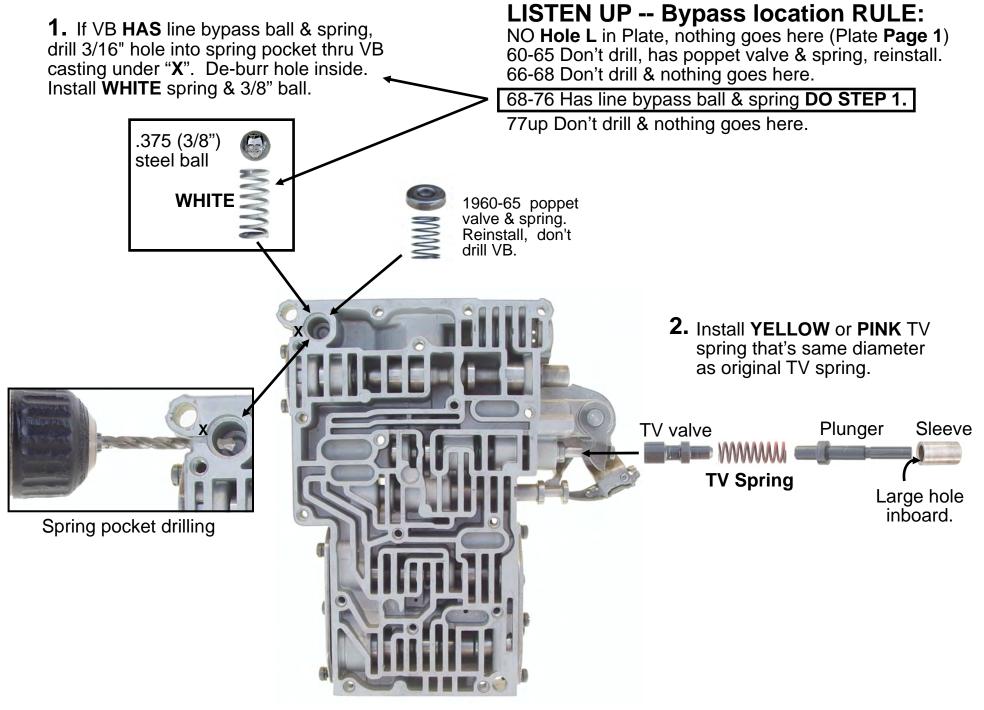
1960 to 76 Type VB Has Four Passages

5. Use the **Spacer** furnished to adjust the 3/16" drill to 7/16".



6. Using **Spacer** as a stop, drill straight down into this hole with the 3/16" drill.

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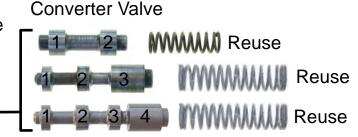
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4. Checkball Usage

- **©** 1/4" (.250)
- 11/32" (.343)
- **3** 1/4" (.250) 77up models

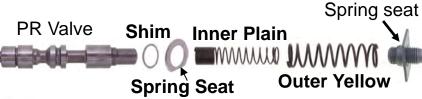
See previous page for info on part usage for this location.

1. Reinstall converter valve with original spring.



2. Install New shim and spring seat on PR valve before installing new inner and outer PR springs.

PR adjust screw



Spring retainer

PR Adjusting

Screw



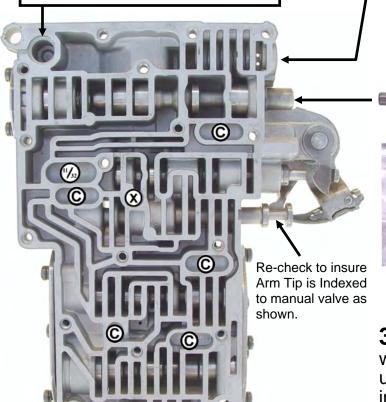
Install Spring Seat as shown. Make sure flat on spring seat has some clearance from casting. File casting if necessary to give it a little room to rotate slightly. Do not allow it to bind between PR valve and casting!

3. PR Adjustment: With 3/16" allen wrench, turn PR adjust screw *clockwise* until spring seat is just *flush* against the inside edge of spring retainer.

Spring seat just flush

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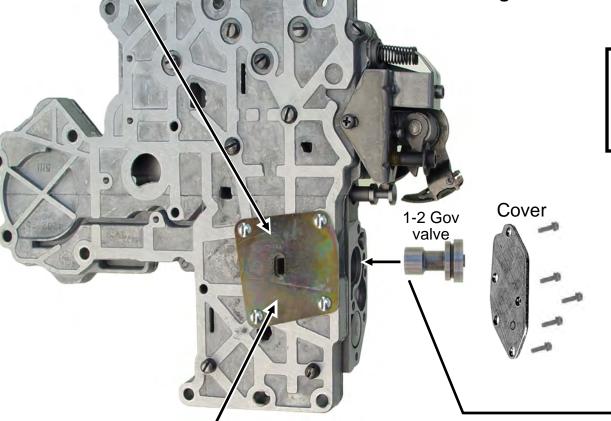
Optional Shift Command Feature

Allows Driver to manually select Manual Low Gear at any speed.

Skip this page for all 1960-65 models OR any Work Trucks, Diesels or Motor Homes.

(Or if Shift Command feature is not desired.)

2. Install Shift Command Plate with four Long Screws furnished.



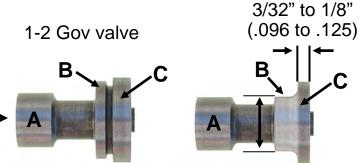
4 Long Screws

LISTEN UP: If you didn't grind 1-2 Gov valve, DON'T install this plate!



Skip this page if: Your 1-2 governor valve looks like this!

1. Grind original 1-2 Governor Valve as shown. It gets *hot* so have a dish of water handy.



Grind land "**B**" to prox diameter of land "**A**". Grind land "**C**" 3/32" to 1/8" wide.

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Shift Command Plate

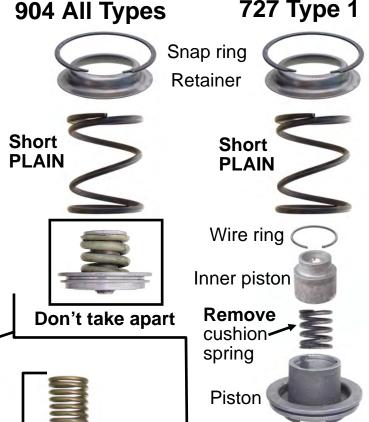
Step 1. L/R Piston: 904 & 727 **904 Trans:** Don't take apart the piston. Install **Short PLAIN** spring. If spring won't

fit retainer or piston reuse original spring. **727 Type 1:** Remove cushion spring. Reassemble piston. Install Short PLAIN spring. If spring won't fit retainer or piston reuse original spring.

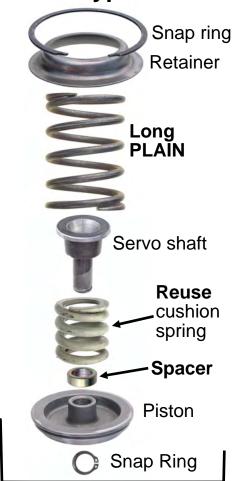
727 Type 2: Install Spacer, assemble piston. Install Long PLAIN spring.

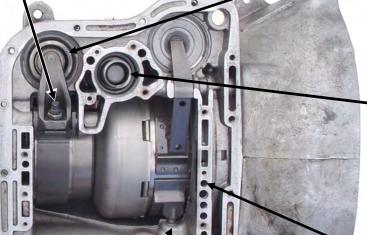
Adjust rear band Tighten snug with short wrench. Single wrap band: Back off 2 1/2 turns. Double wrap band: Back off 3 1/2 turns [Double wrap band has three sections across]

Tighten the locknut.



727 Type 2





Accum Piston & Spring(s)

727 Type 1

Accum piston spring(s) might be on the top, bottom, both or none at all. Reinstall as it came apart.

Orifice Plug Step 2. 727 models only! With 5/16" punch or bolt, install the Orifice Plug into this hole in case.



Now get ready to

Front band adjustment: Tighten snug with short wrench. Back off 2 turns and tighten nut. have some fun!

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