TF-3 Stick Shift

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

REPROGRAMMING KIT Full Manual Control Torqueflite 3 Speed

Fits 66up Alum Torqueflite **EXCEPT** Models With Lockup Converter *See page 6

Does NOT fit 60-65 models with Rear Pump!

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

2. Turn the valve body over. Using the edge of a large file, file a notch about *halfway* thru the thickness of this partition.

3. Insert spring and ball into VB pocket using the **Mumbly Peg** to hold the ball in place. Insert new Manual Valve and reassemble the rooster comb. Remove peg.

File a notch across bore top to bttm. It's not fussy.

New Design Manual Valve

Detent spring & ball Mumbly Peg INNIN MARKEN

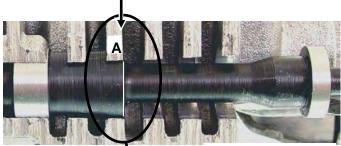
4. Manual Valve position.

POCKET

With valve all the way inboard (Park position) the *right edge* of the tapered land must be flush with the right edge of partition "A". (.030" from flush either way is ok.)

Adjust: Bend Arm Tip with pliers.

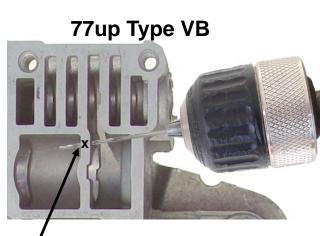
Tapered Land flush with right edge of Partition "A"

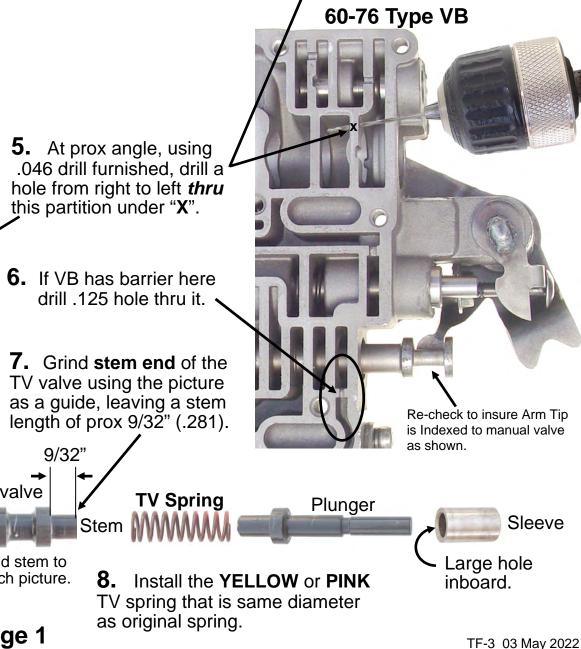


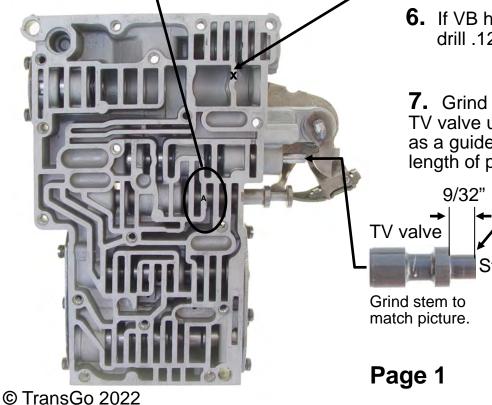
Cutaway View Partition "A"

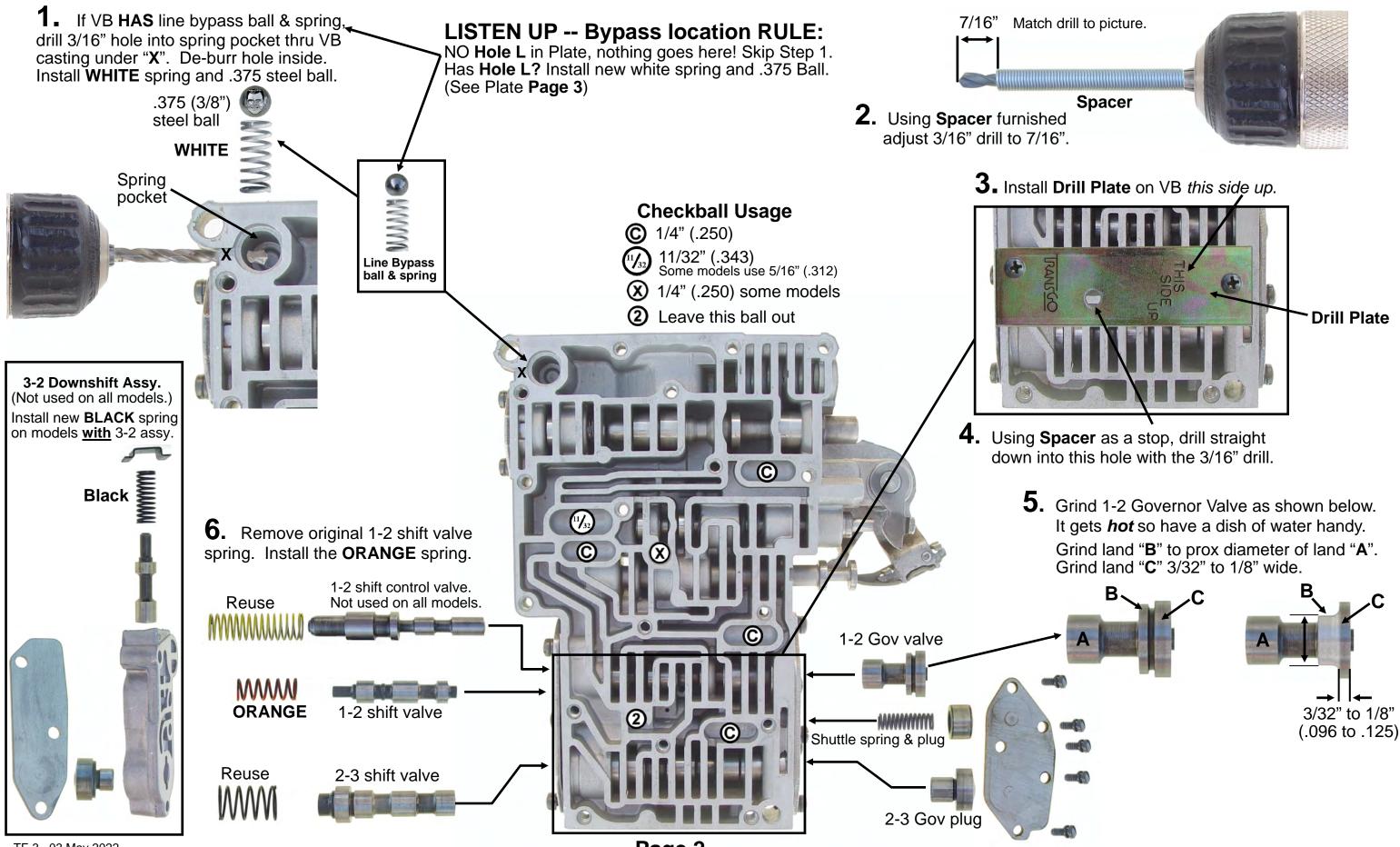


5. At prox angle, using .046 drill furnished, drill a hole from right to left thru this partition under "X".



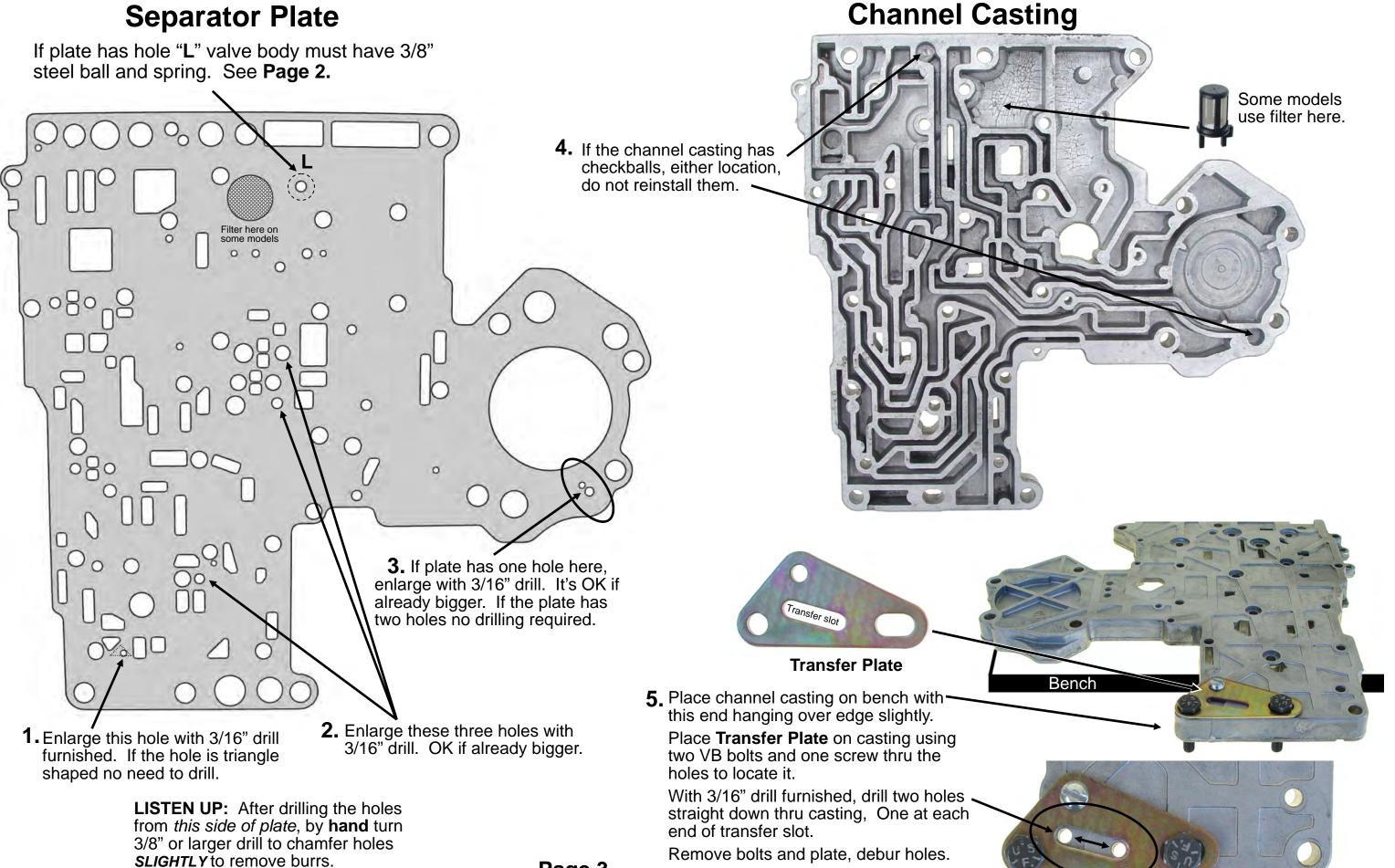




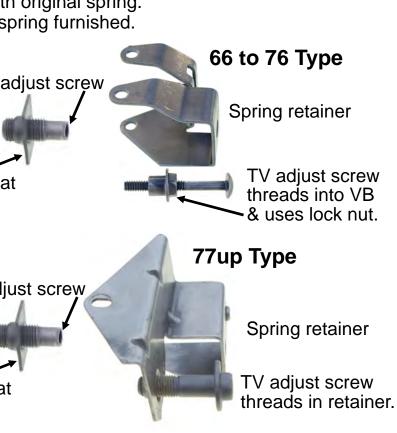


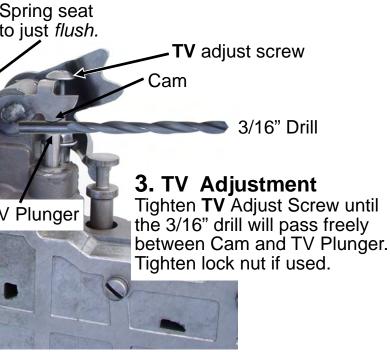
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Fluid level checking: While the new manual valve provides oil to the **1.** Install the Conv Valve with original spring. converter in park, DO check fluid level in Neutral for accuracy as the Install PR Valve with **BLUE** spring furnished. converter is charged **MORE** in neutral. mmm Conv valve Reuse PR adjust screw BLUE PR valve Spring seat PR adjust screw Reuse Conv valve BLUE PR valve This kit does NOT fit Spring seat VB's with this plate! Long Screw 2. LISTEN UP: PR Adjustment is Important! With 3/16" allen wrench, turn **PR** adjust screw *clockwise* until spring seat is just *flush* against the inside edge of the Washer 0 spring retainer. Street/Strip & Off Road Use: Leave flush Trailered Competition Race Car ONLY : Adjust screw counter-clockwise, no more than four (4) turns from flush. Inside edge of Spring seat spring retainer. to just flush. 4. Install Shift Command Plate with four Long Screws furnished. PR adjust screw-• Cam **Cover Plate** Long Screws **Transfer Plate** 5. Place Transfer Plate onto channel casting first. Then install Cover Plate, with Long Screw & Washer furnished. 📕 TV Plunger 🛛 Shift Command Plate





Step 1. L/R Piston-- 904 & 727

Lip seal

groove

904 Trans: Don't disassemble L/R piston. Reinstall L/R piston into case with Short PLAIN spring. If spring won't fit retainer or into piston reuse the original spring.

727 Type 1: Remove cushion spring, reassemble piston. Install the L/R piston into the case with the Short PLAIN spring. If spring won't fit retainer or into piston reuse the original spring.

727 Type 2: Install Spacer, reassemble the piston. Install L/R piston into case with Long PLAIN spring.

727 (Type 2) L/R Piston Binding/Cocking Grind land inboard of lip seal groove about halfway to the piston shoulder. This prevents lip seal from being pinched and binding piston in the bore. Don't worry, it's OK. This tech's been around over forty years, been done thousands of times, and still works great today. Gil.

Grind inboard land

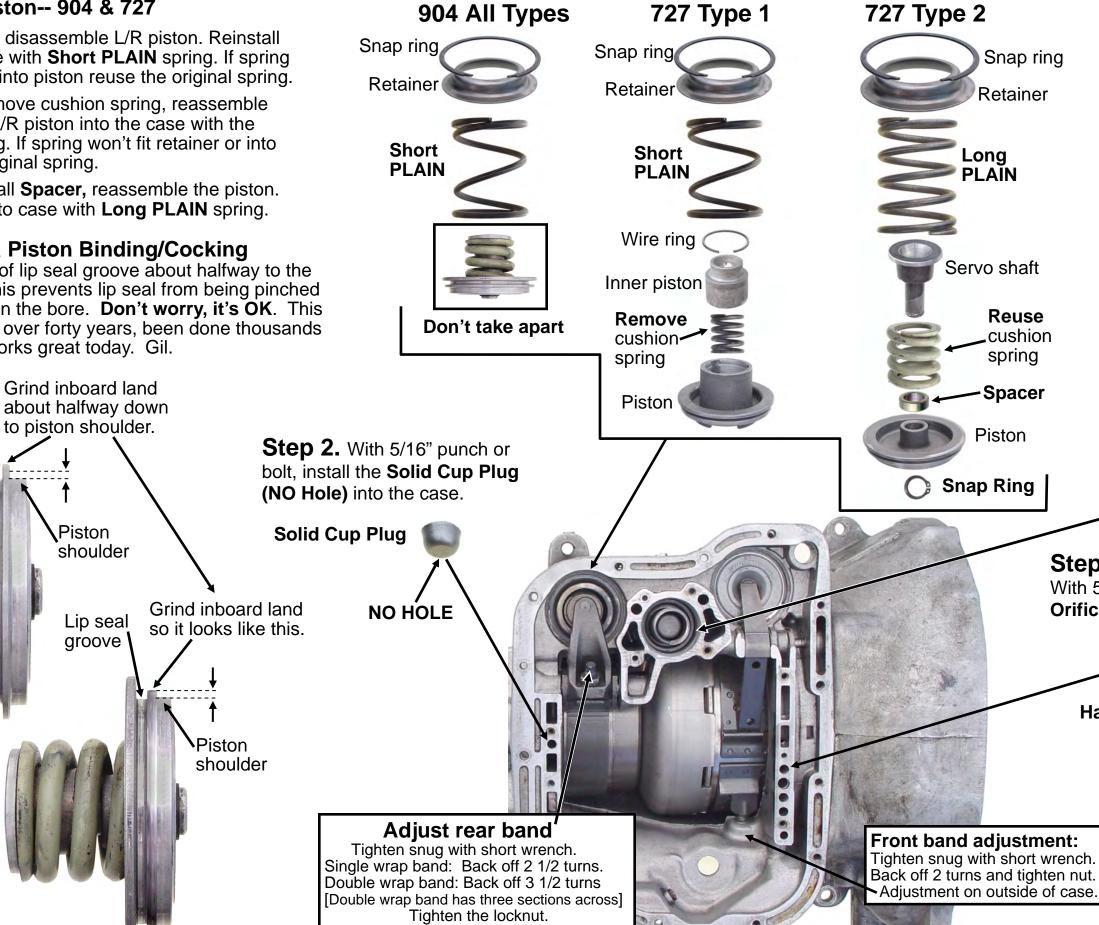
to piston shoulder.

Piston

shoulder

Lip seal

groove



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727 Type 2

L/R piston

Snap ring

Retainer

Reuse cushion

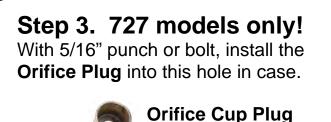
spring

Spacer



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









Lock Up Transmission Issue

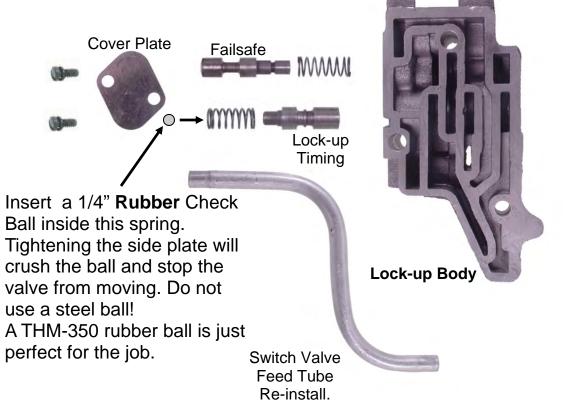
If you have to use a Lock-up Transmission and this product setup for Full Manual Control this is our only solution. There will be no lockup function. The problem is there is no easy way to control lock-up separately from the rest of the 3 gears you control with the shift selector. That's why officially we don't support this products use within a lockup transmission. Ok, now stop kicking your heels. Here's what you can do as an unofficial work-around.

Step 1)

DO NOT use a torque converter with a clutch in it. Order a "Test Torque" converter from your converter supply company. They will build you one without a clutch in it.

Step 2)

Disassemble your lock-up body and install a **rubber** 1/4" checkball inside the spring as shown below. When you tighten the side plate the ball will block the valve from shifting. Re-assemble the valve body. You're done! Please do not call us for any other advise concerning this product if you are trying to use a torgue converter **with** a clutch. Thank you.



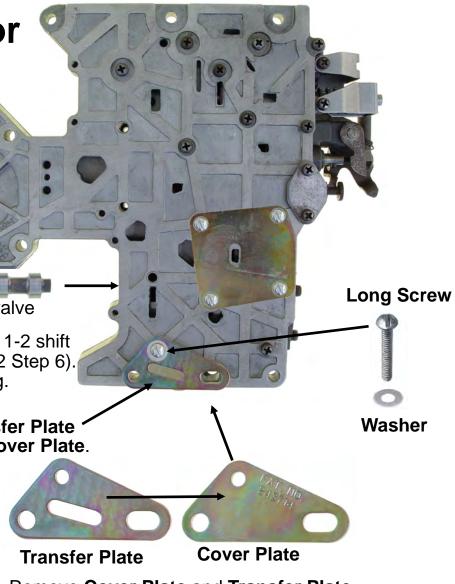
Converting Back For Automatic Shifts.

Re-install Original **MULLIUM**



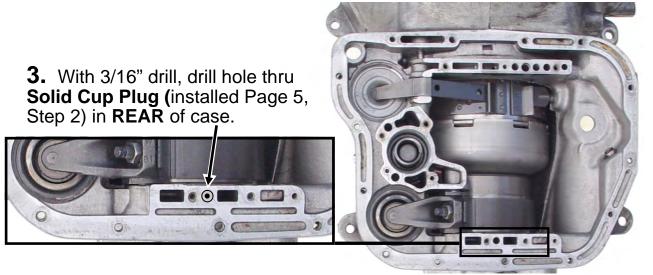
1. Remove **ORANGE** 1-2 shift spring (installed Page 2 Step 6). Reinstall original spring.

> Install Transfer Plate on Top of Cover Plate.



2. Remove Cover Plate and Transfer Plate. Reinstall the **Cover Plate** *first*, then install the Transfer Plate, with Long Screw & Washer.





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