

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

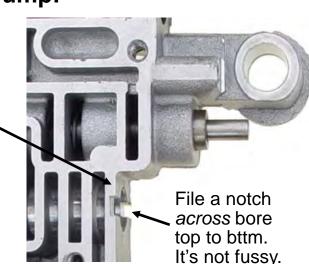
Fits 66up Alum Torqueflite EXCEPT Models With Lockup Converter *See page 6 Does NOT fit 60-65 models with Rear Pump!

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.



New Design Manual Valve

Detent spring & ball

Mumbly Peg



4. Manual Valve position.

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.

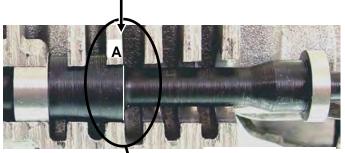
Tapered Land flush with right edge of Partition "A"



77up Type VB



60-76 Type VB



Cutaway View Partition "A"

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



6. If VB has barrier here drill .125 hole thru it.

7. Grind **stem end** of the TV valve using the picture as a guide, leaving a stem length of prox 9/32" (.281).



is Indexed to manual valve as shown.

9/32" TV valve

TV Spring Stem MMMM

Plunger

Sleeve

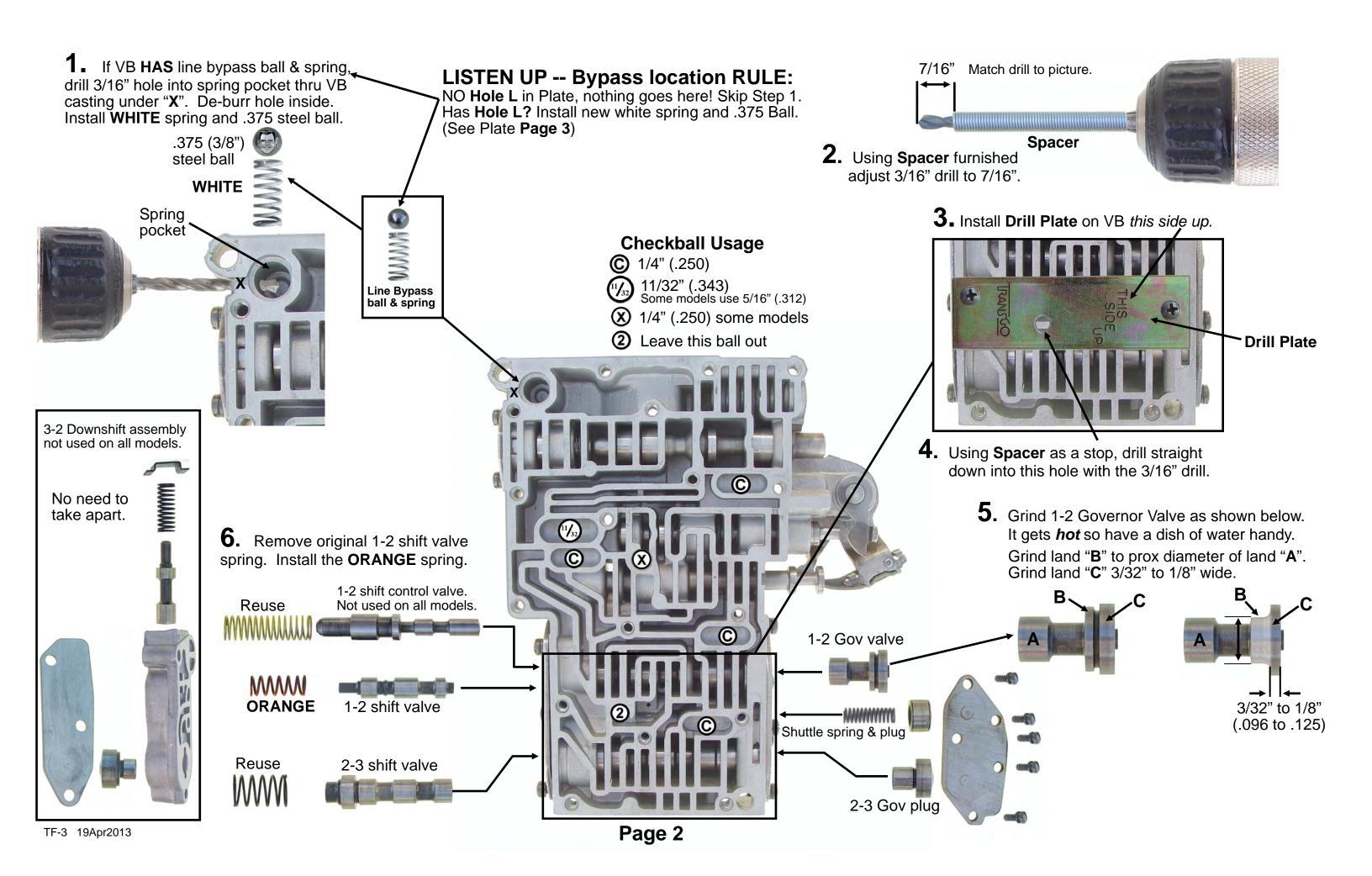
Grind stem to match picture.

8. Install the **YELLOW** or **PINK** TV spring that is same diameter as original spring.

Large hole inboard.

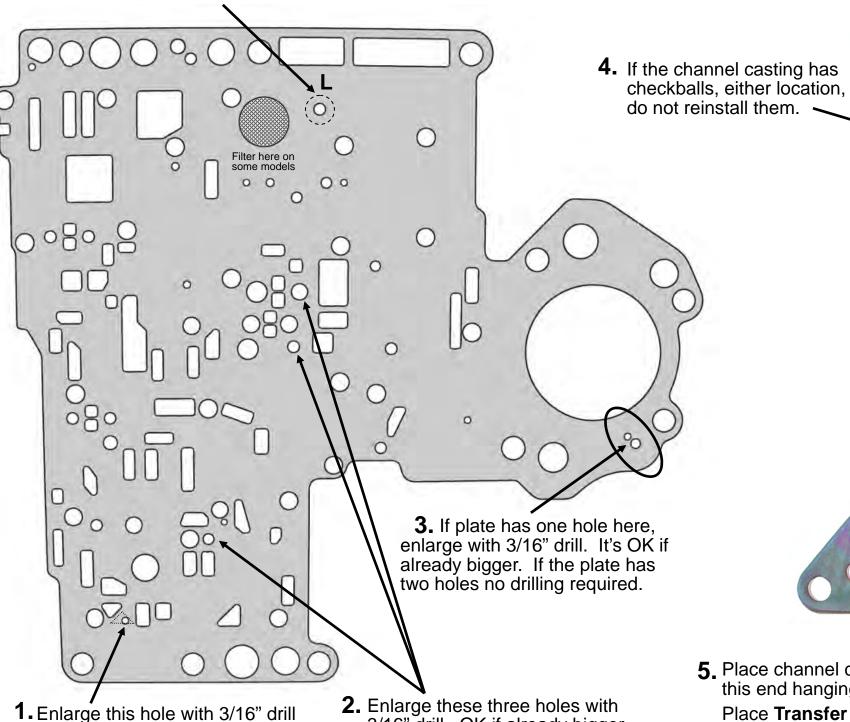
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Separator Plate

If plate has hole "L" valve body must have 3/8" steel ball and spring. See Page 2.

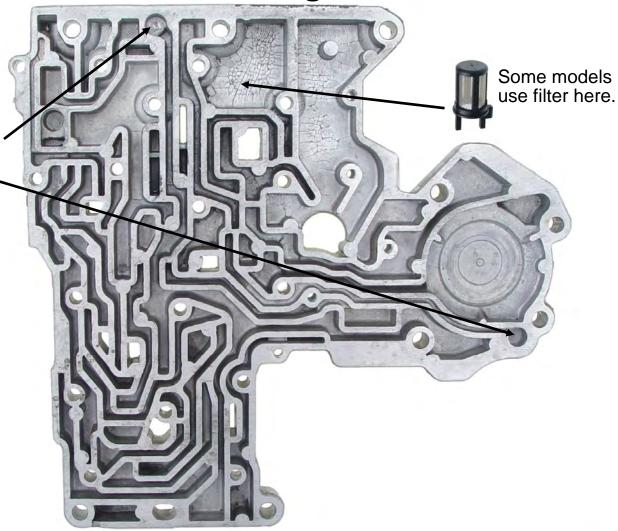


1. Enlarge this hole with 3/16" drill furnished. If the hole is triangle shaped no need to drill.

3/16" drill. OK if already bigger.

LISTEN UP: After drilling the holes from this side of plate, by hand turn 3/8" or larger drill to chamfer holes **SLIGHTLY** to remove burrs.

Channel Casting





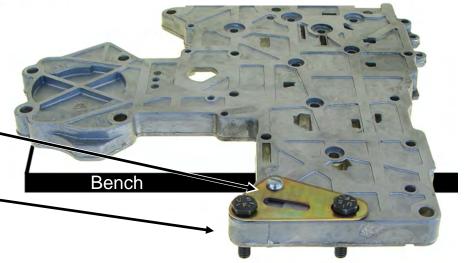
Transfer Plate

5. Place channel casting on bench withthis end hanging over edge slightly.

Place **Transfer Plate** on casting using two VB bolts and one screw thru the holes to locate it.

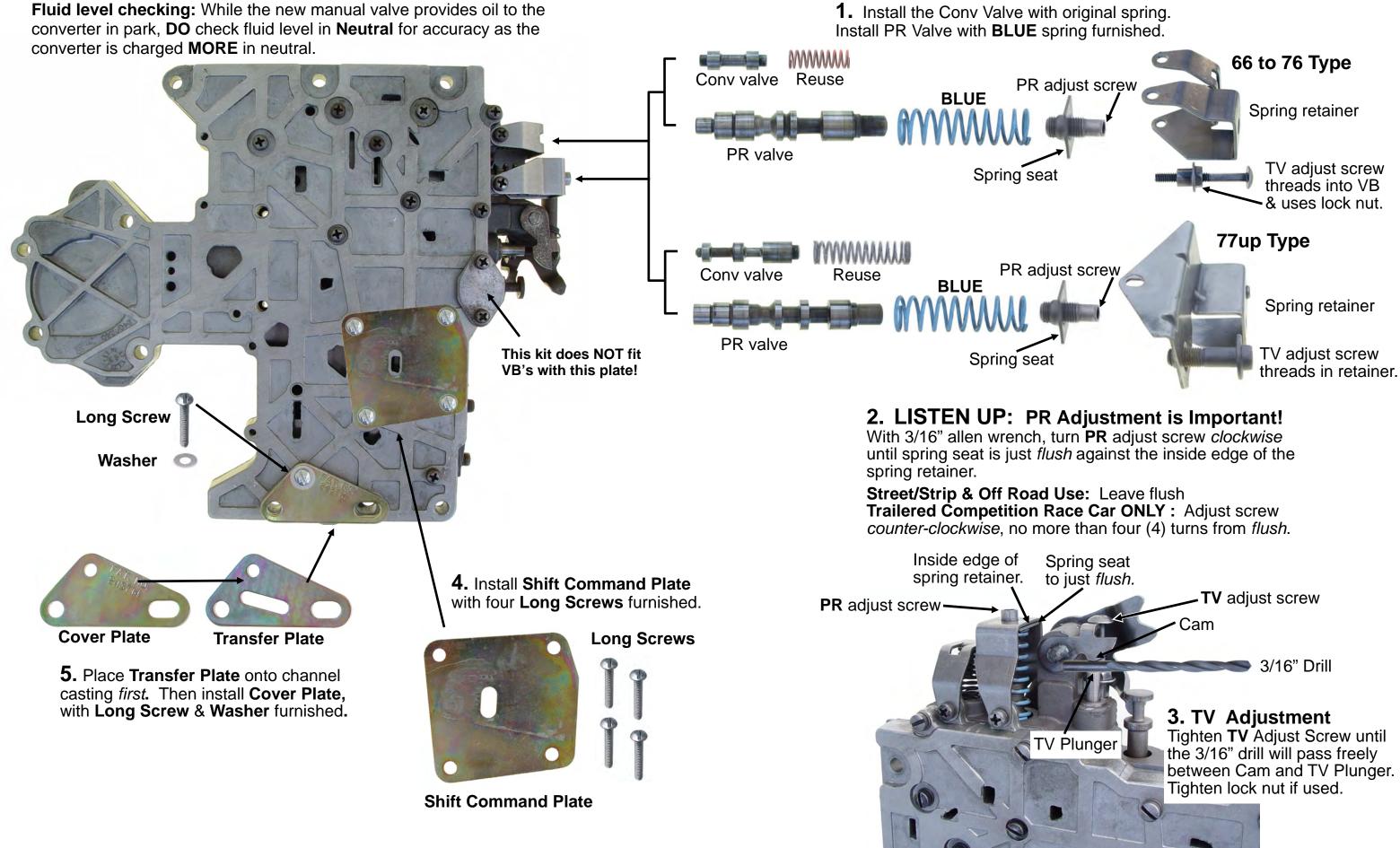
With 3/16" drill furnished, drill two holes straight down thru casting, One at each end of transfer slot.

Remove bolts and plate, debur holes.



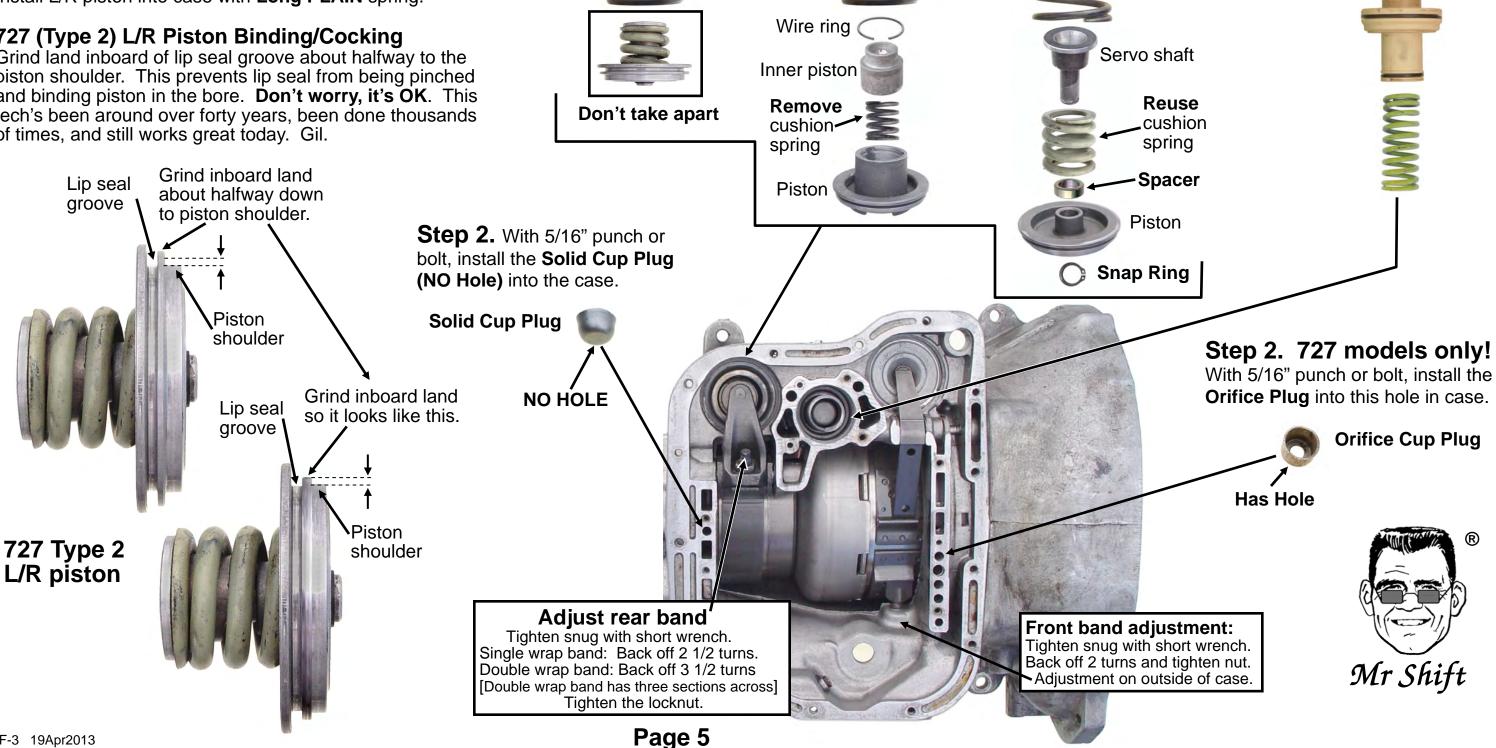


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Step 1. L/R Piston-- 904 & 727 727 Type 1 904 All Types **727 Type 2 Accum Piston & Spring(s) 904 Trans:** Don't disassemble L/R piston. Reinstall Accum piston spring(s) might be Snap ring Snap ring L/R piston into case with **Short PLAIN** spring. If spring Snap ring on the top, bottom, both or none won't fit retainer or into piston reuse the original spring. at all. Reinstall as it came apart. Retaine Retainer Retainer **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 **Short** Short Long piston reuse the original spring. **PLAIN PLAIN PLAIN 727 Type 2:** Install **Spacer**, reassemble the piston. Install L/R piston into case with Long PLAIN spring. Wire ring (727 (Type 2) L/R Piston Binding/Cocking Servo shaft Grind land inboard of lip seal groove about halfway to the Inner piston piston shoulder. This prevents lip seal from being pinched and binding piston in the bore. Don't worry, it's OK. This Reuse Remove tech's been around over forty years, been done thousands Don't take apart cushion cushionof times, and still works great today. Gil. spring spring Grind inboard land Spacer Lip seal Piston about halfway down groove to piston shoulder. **Piston** Step 2. With 5/16" punch or bolt, install the Solid Cup Plug



Lock Up Transmission Issue

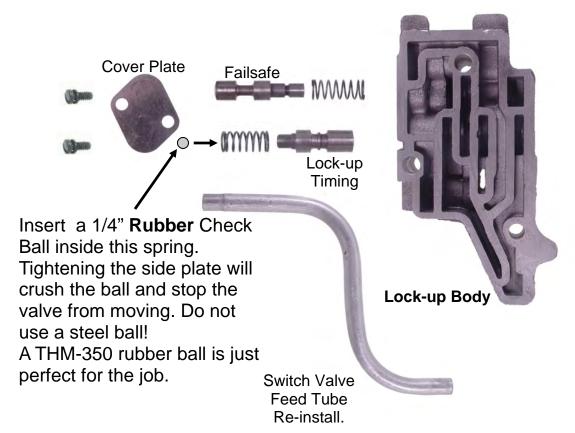
If you have to use a Lock-up Transmission and this product setup for Full Manual Control this is our only solution. **There will be no lockup function.** The problem is there is no easy way to control lock-up separately from the rest of the 3 gears you control with the shift selector. That's why officially 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.

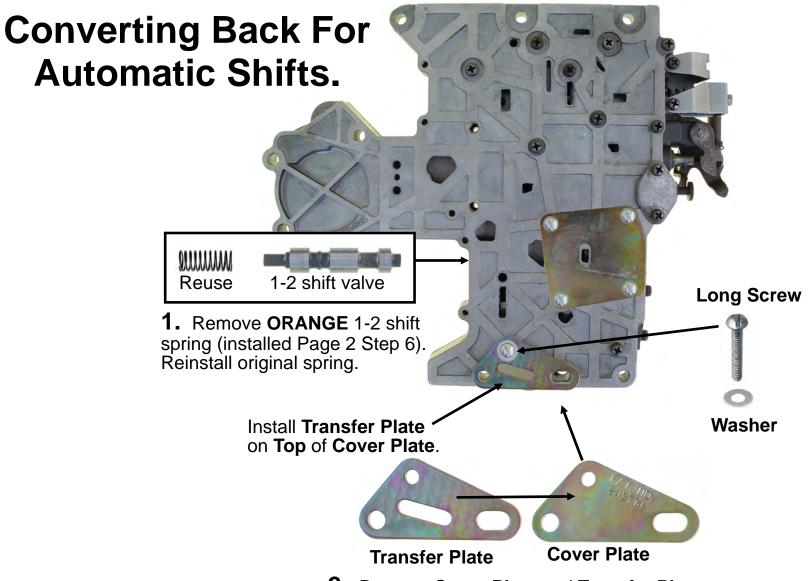
Step 1)

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 torque converter **with** a clutch. Thank you.





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

