# **GF4A-EL Shift Kit®**

Probe: All 1993. 1994-97 with 2.5L [Ford designation: 4EAT-GF] Mazda: 1994-97 MX-6/626 with 2.5L-1995-97 Millenia with 2.5L

### PWM Solenoid—TCC Control FU9A-21-1G1C Temp sensor **Corrects/Reduces/Prevents** F62Z-7H141-AA Bang 1-2 shift-Rough 2-3 shift. 2-3 cutloose and burned plates. Won't move forward or reverse. Low line pressure—Total Burnup. Pump Wear & Low or no cooler flow. This kit will correct rough 1-2 shift complaint without removing trans. **EPC** Line Solenoid Cutback Valve FU9A-21-1G Install WHITE Spring 1-2 Shift Solenoid~ 2nd Accum must have 3 springs. 2nd Accum Install 1 or 2 spring(s) as needed. mmmmmm Downshif Solenoid Rings Remove the teflon rings. Clean the sides of the rings and the groove. Then open rings up slightly and re-use. Do NOT change the rings. TCC On/off

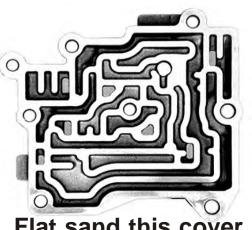


**IDENTIFICATION:** Trans has two pans

and Valve body has seven solenoids.

**Listen up:** HOT rough 1-2 shift complaint, at 3/8 to 5/8 throttle. Feels like an electrical problem but it's not. Check it like this. **COLD:** If line pressure during 3/8

throttle 1-2 shift is 80 to 120 cold: but is 140 to 180 when HOT, and the trans still has lockup, the problem is not electrical and this kit will fix it. A new \$650 VB will also fix the rough shifts, for a little while.

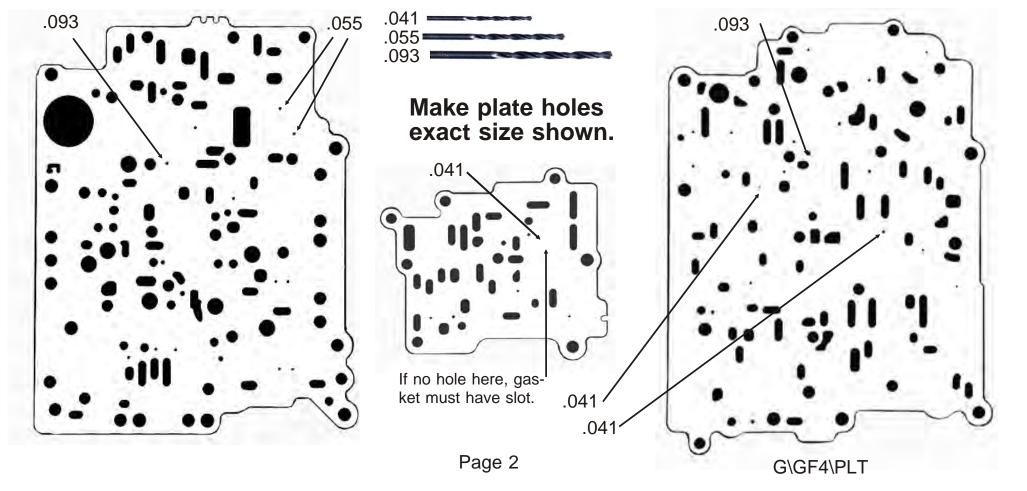


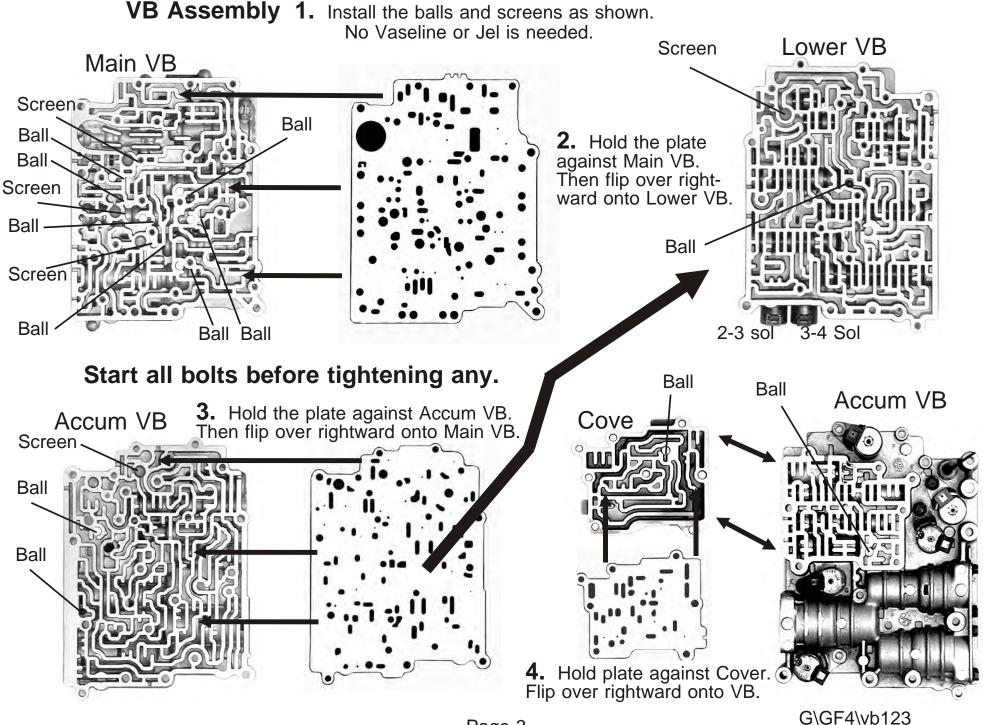
Flat sand this cover

### Do not flat sand the valve bodies.

While the trans is apart read pages 4 to 6. It'll help you build a winner.

The PWM and EPC solenoids are the same. Available from Ford, F32Z-7G136AA \$47. If 3/4 clutch was burned out replace the EPC Solenoid.



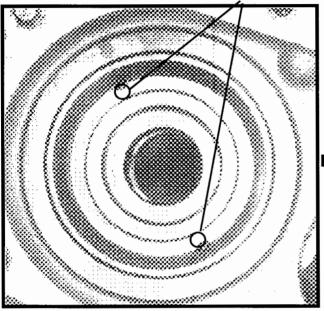


# **READ FIRST: GF4A-EL Success Information**

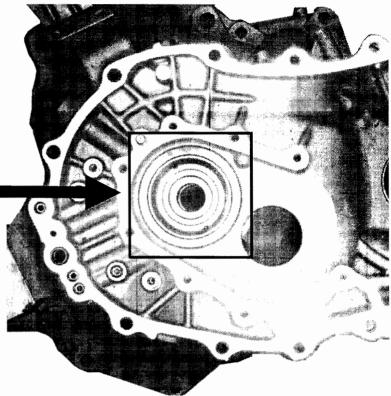
## Prevent front seal blowout.

The bearing race covers 2/3 of the front seal drainback holes.

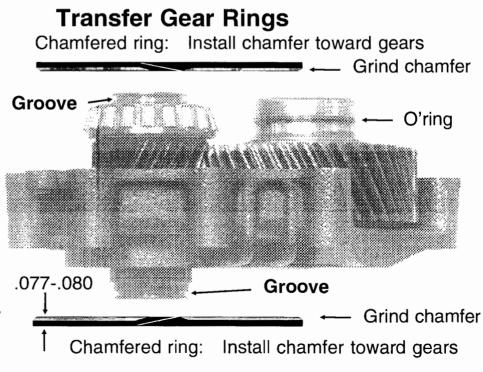
1. Use 1/4" drill. Drill about 1/4" deep just inboard of the moon shaped holes.



 Then re--aim drill outboard and drill into the drainback holes.
Do not use goop on front seal. Install front seal clean and dry. **Bell housing** 

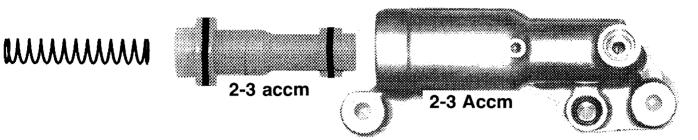


Complaints: 3-4 clutch burn-up; Runaway instead of 2-3 shift; Long and soft 2-3 upshift. Two things effect these rings. Fix the rings: Grind a 45° chamfer about 1/3 of the way across the OD. Skip the portion close to the scarf cut. Run your finger nail around the edges to scrape off any fringe or grinding burrs. Then pull the ring out flat once to open it up. Install it in groove with Vaseline. Some replacement rings are too narrow or wide. All Teflon rings in this trans should be .077 to .080 wide.



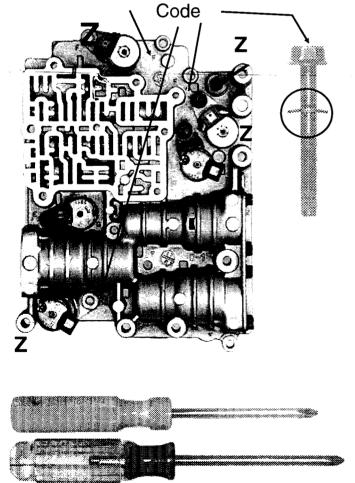
G\GF4\tips

**2-3 accumulator:** Is not a common cause of leak. It's deep in trans next to transfer gears. Air check it from the case [hole shown below]. If its tight, you can skip working on it. If it seems to leak a lot clean the side of the rings, open them up slighty and **re-use** them. **Don't change the rings.** 



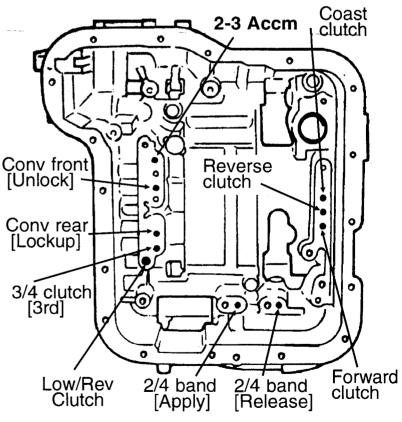
#### Valve Body

Bolts have special angled washers. The high side goes towards bolt head. Bolts have an alphabet *code* on head and matching *code* next to each hole in the VB. That's where they install.

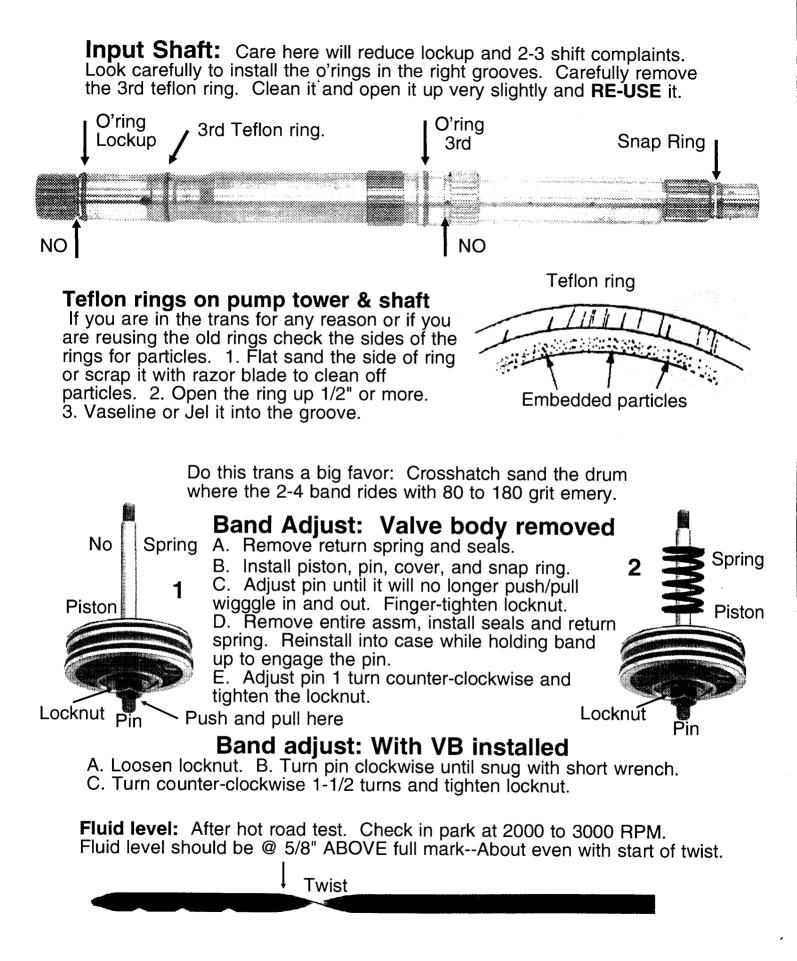


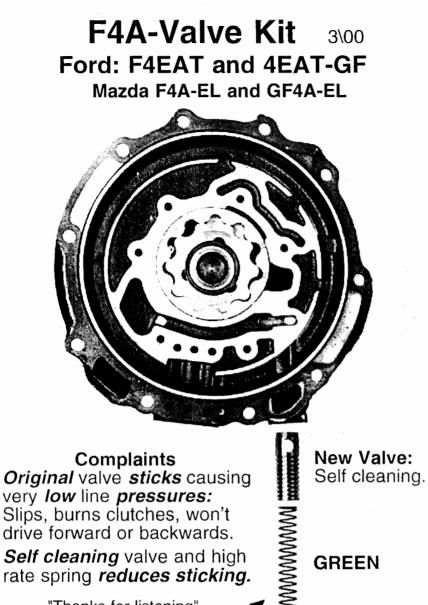
Air checking

With pump oil can, pump 20 squirts into circuit. Apply with air. The 3/4 clutch may take 40 squirts to apply. Don't expect it to be air tight, but 30 lbs of air should apply the clutch.



VB assembly: Use two or more #2 phillips to line up holes "Z".





"Thanks for listening" Gil younger

SAVE MONEY: More fix for your \$. This self cleaning Valve Kit is included in F4A & GF4A Shift Kits®.

F\F4A\Pump

OVER

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