LJ4AEL Shift Kit®

1995-03 Mazda Millenia-S 2.3L

JF403E 1990up Geo Storm Isuzu Impulse and Gemini

Flat bent pry

This Kit is about: Prevents **Clutch Drum Blowout and** Planetary failures caused by Hi-line and Low-Lube.

Falls out of gear at stop sign, hot. Burns 3-4 clutches. No 2nd. No 3rd after a 3-2 or 4-2 kick down. Direct clutch (3rd) inner seal leaks. Corrects Soft 1-2 and 2-3.

Stem **Eyelet pry**

LISTEN UP: If trans is out of vehicle do page 7 first.

Step 1. Remove **Retainers**. With sand paper smooth the small burr where the retainer was against bore.

Step 2. Insert **Flat Bent Pry** between the end plug & accum piston. Push piston inward away from the end plug far enough to insert the stem end of eyelet pry.

End plug Retainer Accum Valve

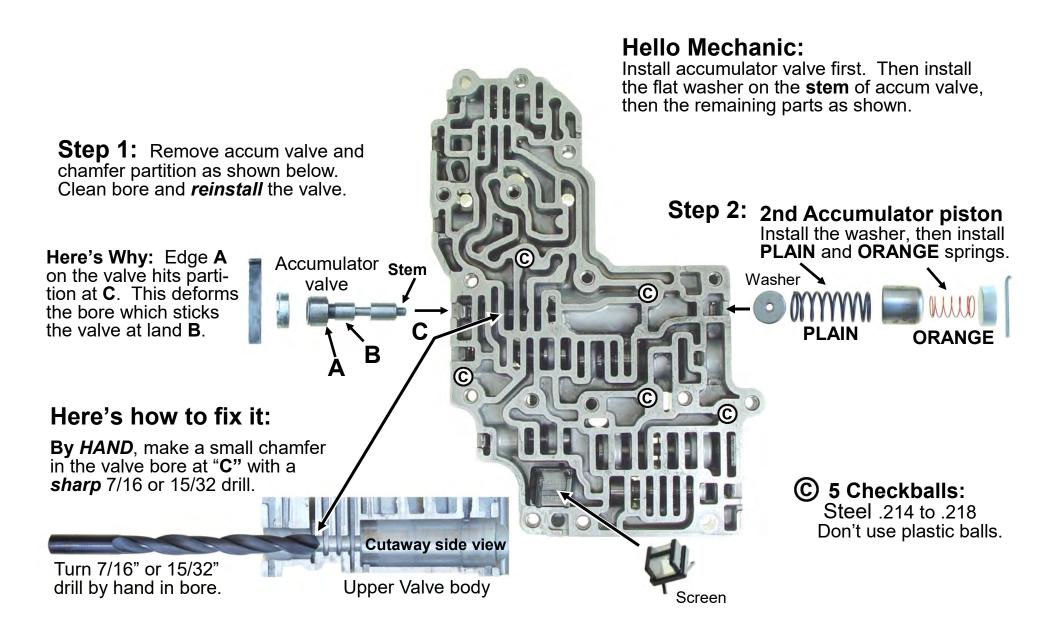
Upper Valve Body

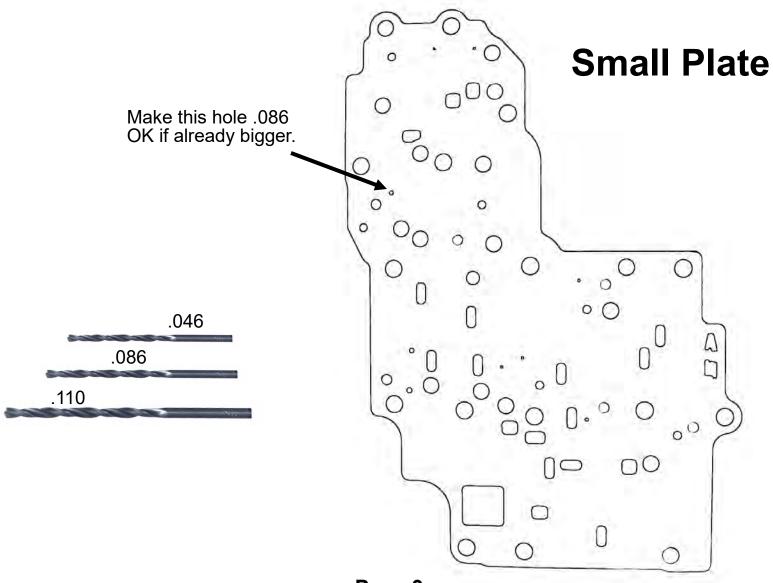
End plug

Retainer

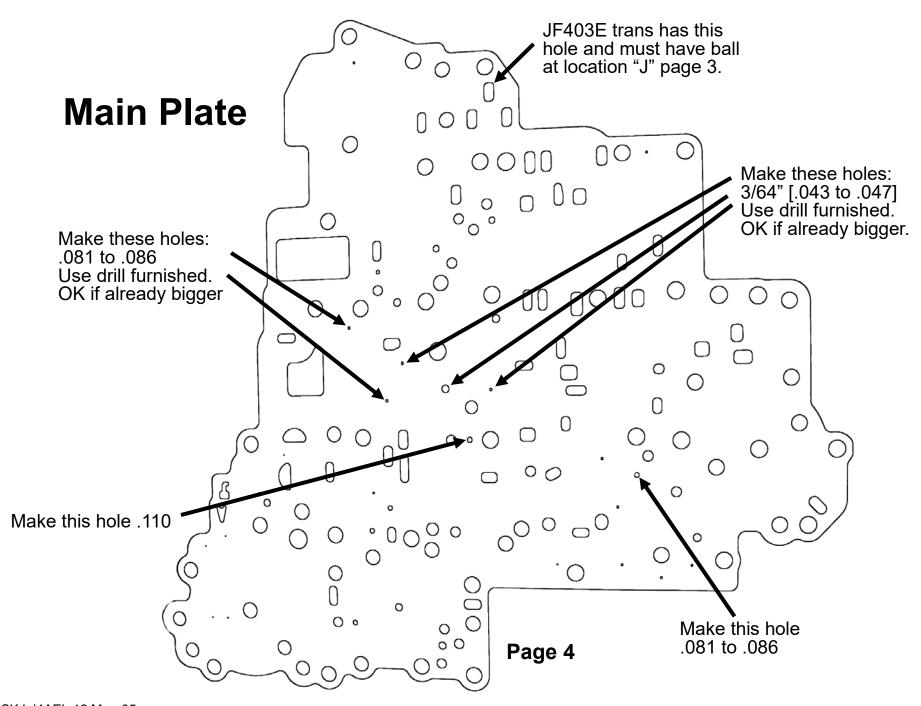
Step 3. With Eyelet Pry push the end plug **GENTLY** in various spots to remove it. Then remove 2nd accum piston, spring & washer on Page 2.

Then *push* accum valve and end plug from this side of VB with a thin punch.



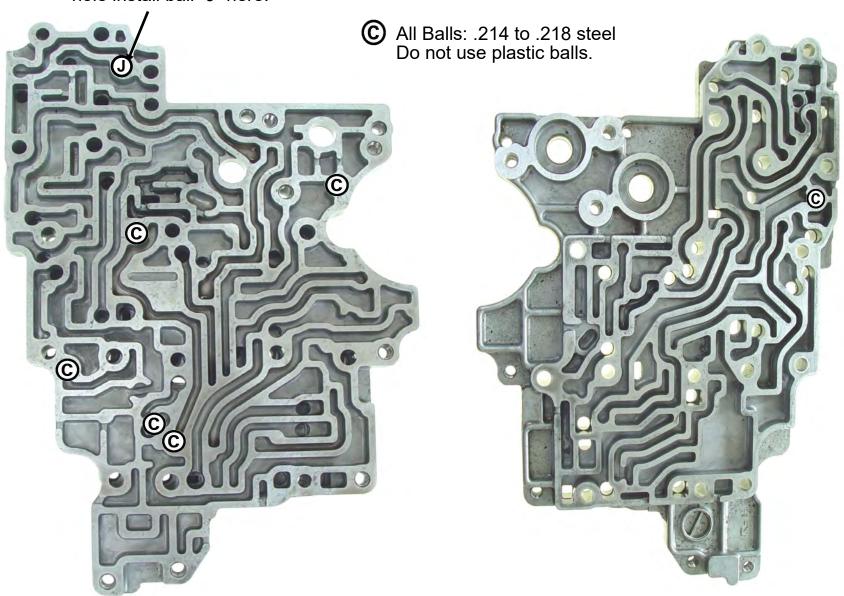


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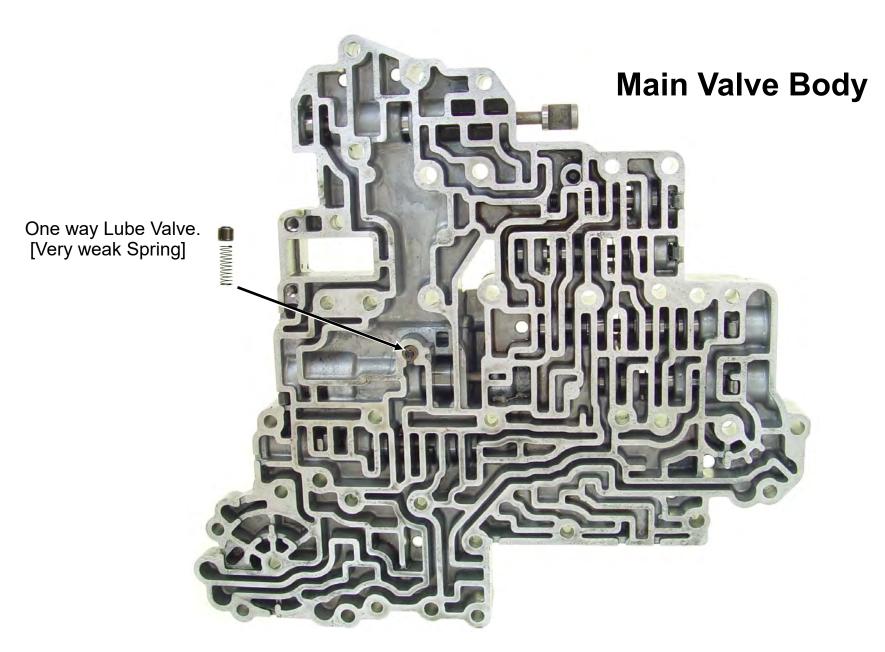


If main plate has slotted "JF" hole install ball "J" here.

Intermediate Valve Body



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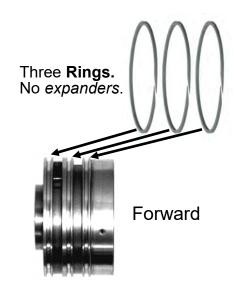
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Hi-Temp Low-Shrink Rings

If trans is in vehicle skip this page.

1. Forward & Lube Rings

Use Trans Jel and **GENTLY** push rings down into grooves. Ends of rings should just touch or have small gap. If pushed together **FIRMLY** they **BIND** in groove & **WON'T SEAL**.



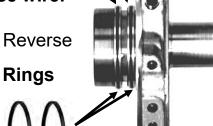
2. Reverse Rings

Fill grooves with Trans Jel or Vaseline. Install **Expander Wires**, then two **Rings**.

LISTEN UP:

Some models have shallow grooves. Rings MUST push *flush* into the grooves. If rings wont push flush don't use wire.

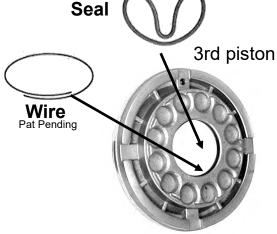




Expander Wires
Pat Pending

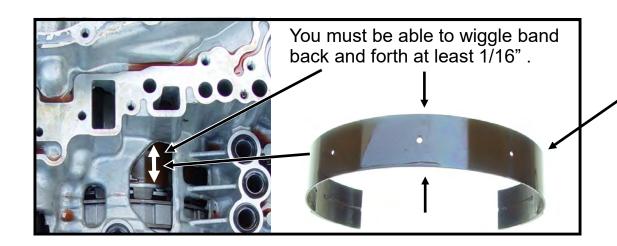
3. Third Clutch (Direct) Inner Piston Seal

Insert overlap part of **Wire** into groove at 6 O'clock. Then shape the **Seal** as shown and install into the piston groove.





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Check Band Adjust: Install 2nd piston with new cushion seat and spring. If band will wiggle 1/16" by hand skip band adjustment shown below.

Step 1 Remove and discard original hard washer.

Step 2 Install Cushion Seat and the PLAIN spring.

PLAIN
PLAIN
Cushion seat

Step 3 Install PLAIN spring over lip on the 2nd piston as shown. Use smallest end of spring that fits snug.

Band adjustment:

Loosen Locknut. Adjust snug with short wrench, then back off 2 to 2-1/2 turns and tighten the lock nut. Use 14mm wrench and T30 TORX bit.



