

6R80-VBR-NT (No tools included)

Parts only, refill kit for 6R80-VBR-WT
(Solenoid and Lube Regulator Valve Repair Kit)

Prevents-Corrects-Reduces

Persistent coast-down clunk hot, ratio codes, long slip-sliding shifts hot. Premature bushing failure.

Fits: FORD 6R60, 75, 80 & 100 (2006-20)

Also fits: ZF6HP19, 26 & 32 Gen 1 (2003-up)

This kit only fits vented VB's large or small

Ford 6R60 thru 100 series
ZF6HP-19, 26 & 32 Gen 1 series

There are many model specific differences!
Re-assemble your model as you found it.

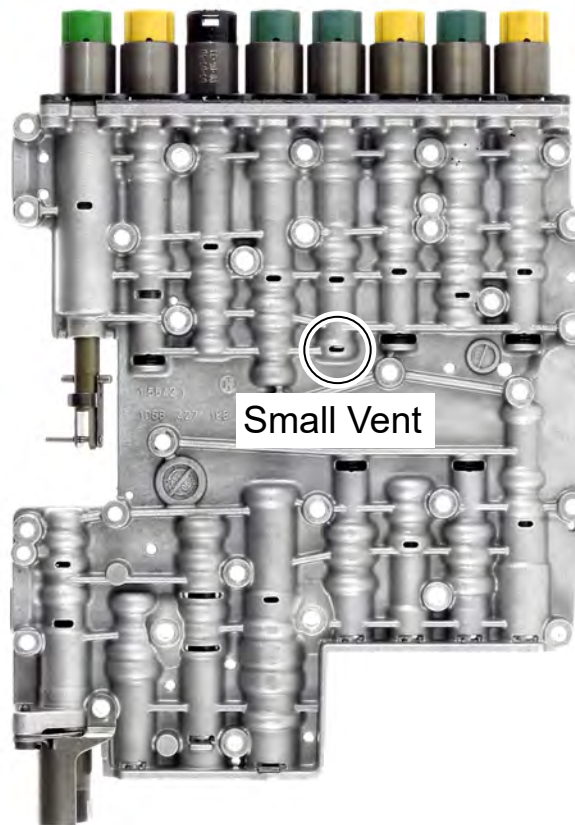
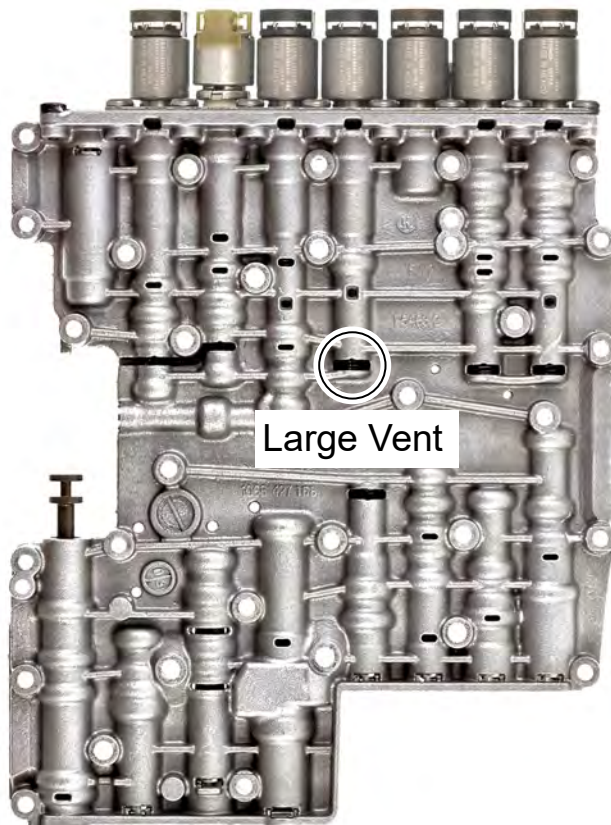
I.D. The Valve Body First!



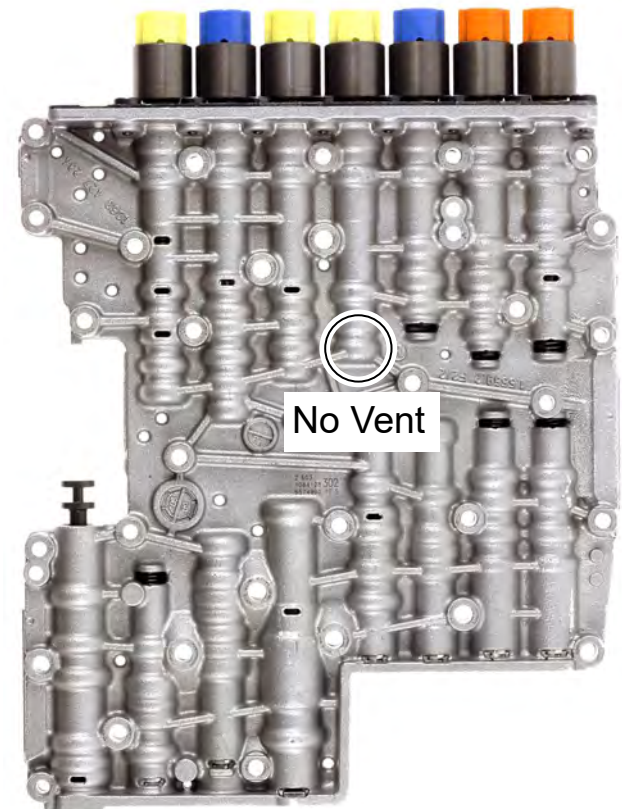
If you need tools order:

6R80-VBR-WT

Contains reaming tools and one set of parts.



This kit does NOT fit ZF6HP-21, 28 & 34's
(Valve body's without a Vent)



I.D. The Valve Body First! See Front Page!

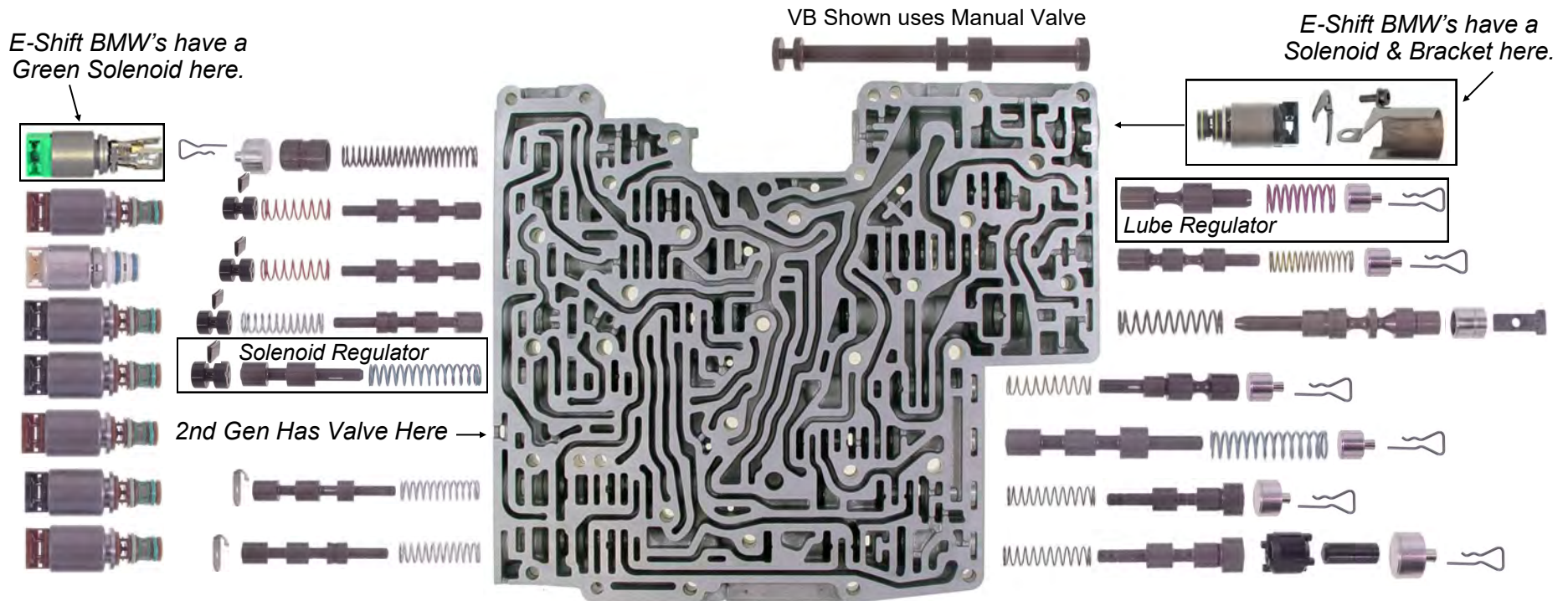
Step 1

Disassemble VB and note ALL small part locations. Check your separator plate. New separator plates are available from distributors, some "printed" plates are replaced by bonded gasket plates. Plates are cheap insurance against cross-leak malfunctions.

Helpful Information

Resetting Adapts:
Do yourself and this car a BIG favor. Warm the trans temp up to about 140 degrees and use a good scan tool to "reset" the adaptive learned values.

Solenoid Usage:
Always replace *discolored* or *overheated* Solenoids! See Solenoid Information Sheet for details.



Heads up! Some valves may or may not have springs! Depends on model.
Always re-assemble valves and small parts as you found them!

Solenoid Regulator Repair

Step 1. Remove **Solenoid Regulator** from VB. Discard original valve and spring. Keep end plug and retainer.

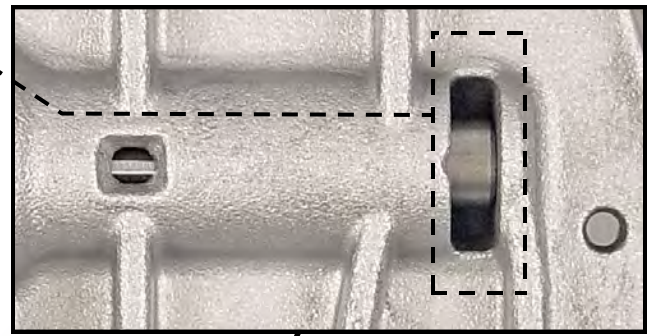
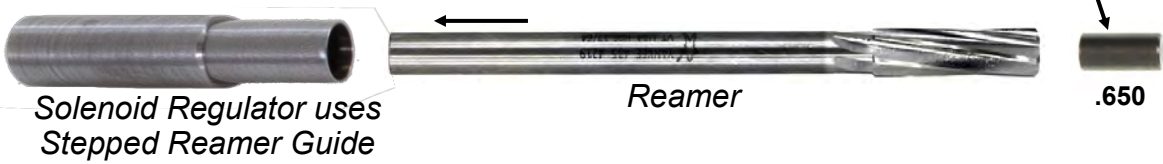


VB Type ID
Look for Vent Here!
 Must have a Vent, Large or Small.
This kit only fits Vented VB's!

Reaming Tip: The less you push, the slower you go, the better the finish!
 Reamer will stop when **it contacts** the Solenoid Reg. Spacer.

The Spacer Stops the Reamer!
 Never Ream **Solenoid Reg. bore** without using spacer or severe damage will occur!

Step 2. Flooding bore with WD-40 while reaming works best. Slide shank end through largest hole of Solenoid Reg. Reamer Guide. **Insert Solenoid Reg Reaming Spacer into the bottom of the empty Solenoid Reg. bore NOW.**

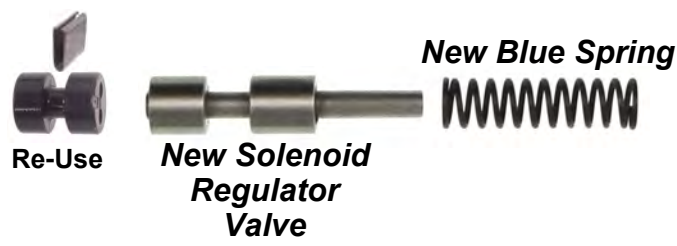
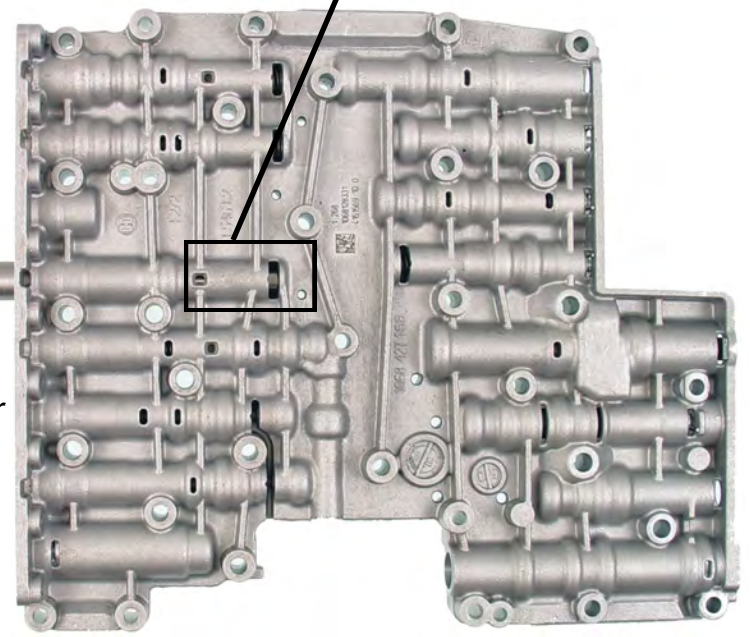


Step 3. Insert guide bushing and reamer into bore until Reamer **Guide** bottoms out. Use locking pliers **just snug** on the guide to keep it from spinning. Turn reamer at slow speed with drill until reamer contacts the **Solenoid Reg Reaming Spacer**. Remove Guide, Reamer and the Reaming Spacer & save them. Rinse & Clean out chips.

Step 4. Check New Solenoid Regulator Valve in bore for free movement. Then clean & lube **New Solenoid Reg Valve** & install as shown with new **Blue** spring. Then re-install original end plug and retainer.

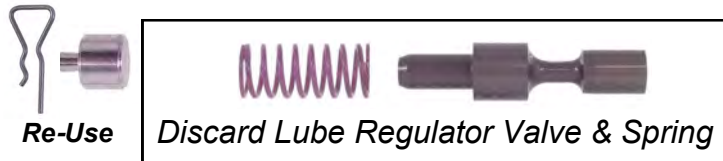


Hold Reamer Guide Here with Locking Pliers Just Snug!



Lube Regulator Repair

Step 1. Remove **Lube Regulator** from VB.
Discard original valve and spring. Keep end plug and retainer.



Step 2.
Flooding bore with WD-40 while reaming works best. Slide shank end through largest hole of Lube Reg. Reamer Guide.



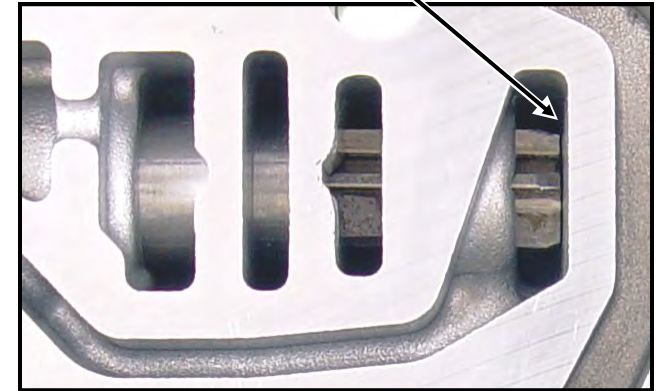
Step 3. Insert guide bushing and reamer into bore until Reamer Guide bottoms out. Use locking pliers **just snug** on the guide to keep it from spinning. Turn reamer at slow speed with drill. You're finished when the **tip of the reamer contacts the inner wall** as shown. Turn valve body over, rinse and blow out chips. Do final cleaning on entire VB.

Step 4. Check New Lube Reg. Valve in bore for free movement, then clean & lube **New Lube Reg Valve &** install as shown with new **Large Diameter/Short Orange Spring** then re-install original end plug and retainer.

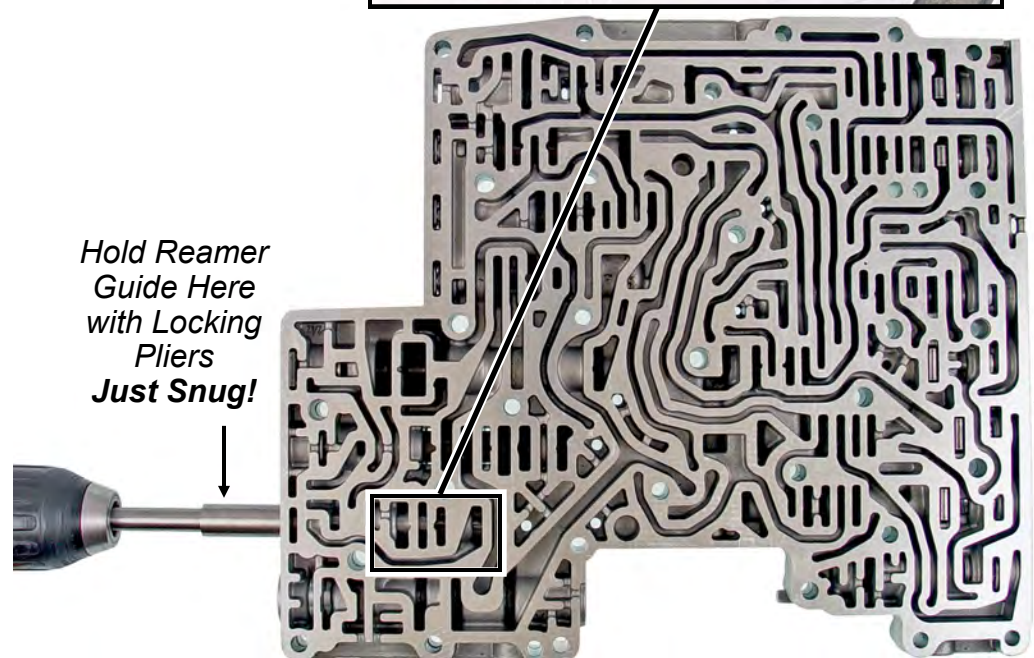


The Solenoid Regulator Reaming Spacer is NOT USED for reaming the LUBE Regulator Bore!

Reamer tip contacting inner wall.



Hold Reamer Guide Here with Locking Pliers Just Snug!



Additional Information for Ford Models

Re-install ALL small parts to their original locations!

If the **Separator** plate has a hole OVER a damper location, a damper MUST be installed IN that location. **Later models only use 2 dampers.**

Watch for damaged/crushed pulse dampers.



Parts & locations differ by model. Re-install ALL small parts to their original locations!

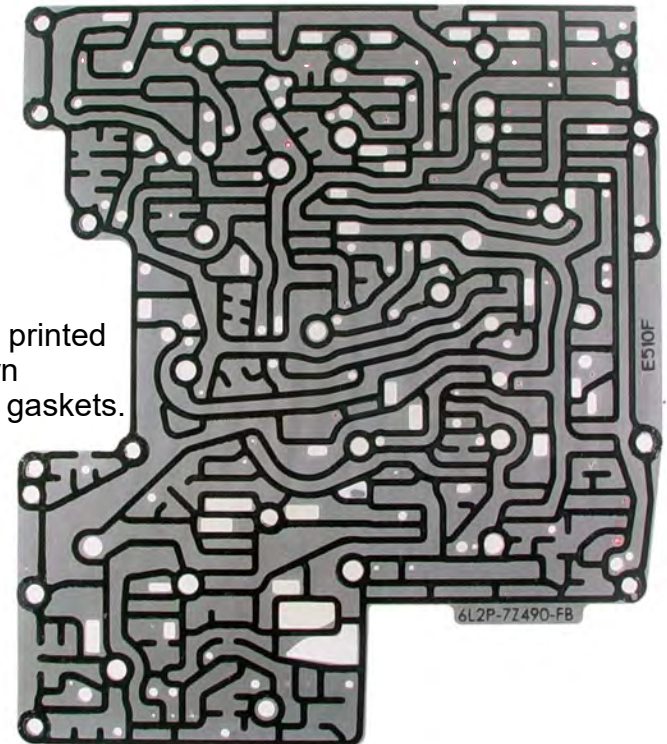
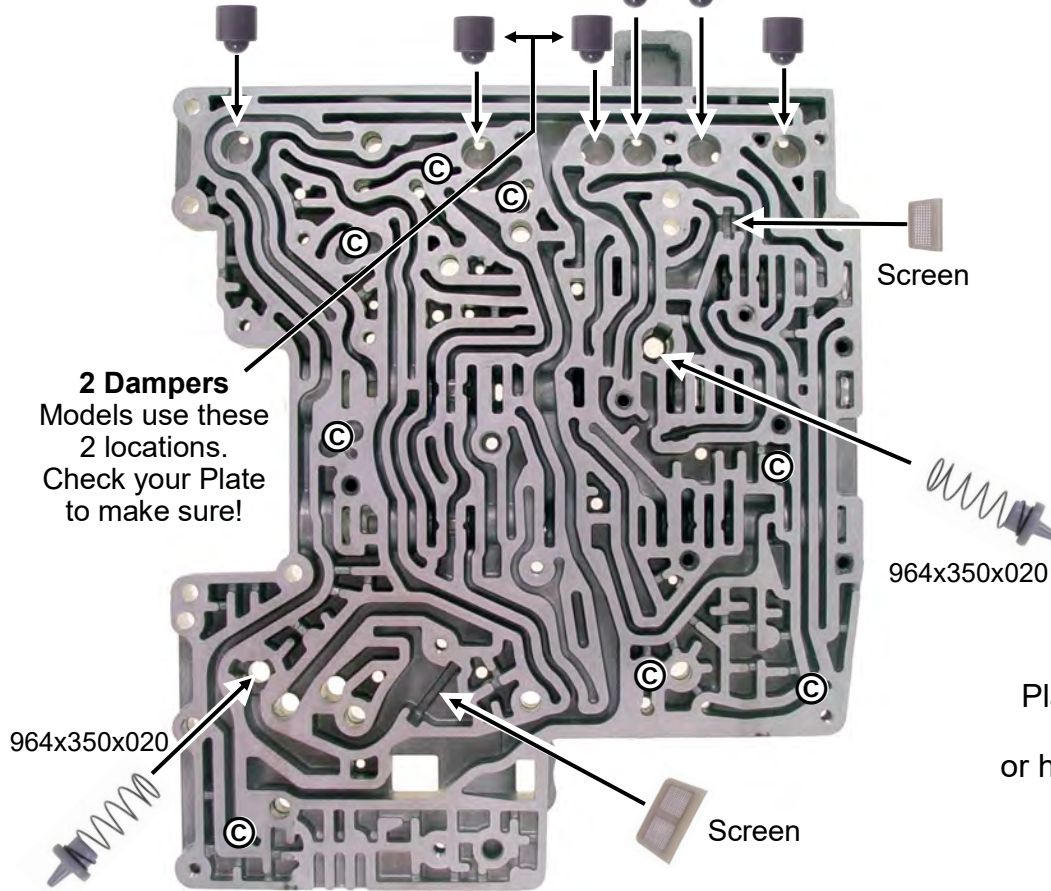
This Model Used:

⊙ = 8 Check Balls

■ = 6 Dampers

Watch for damaged plate printing!
Splitting the VB halves usually pulls the printing off somewhere on the plate. Plates are available from your supplier.

6 Dampers Plate P/N: CL3Z-7Z-490-C
2 Dampers Plate P/N: CL3Z-7Z-490-D
Replace with same type plate.



Plates may be printed as shown or have bonded gaskets.

Fluid level must be at top of hash marks with trans temp @ 190F degrees to purge air from cooler circuits! Use scan tool to determine fluid temp. Don't let it out the door with a low fluid level! Do not overfill either!

ZF Additional Information

Typical M-Shift Valve Body Layout

Mark locations of ALL small parts and re-install as you found them. They are model specific.

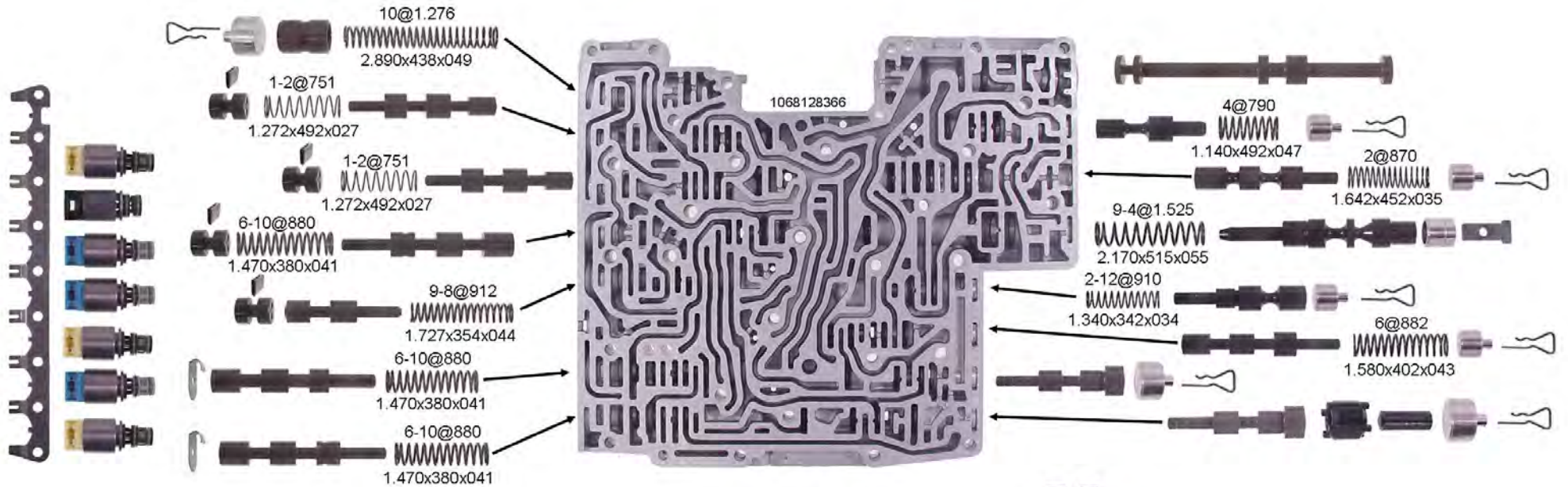
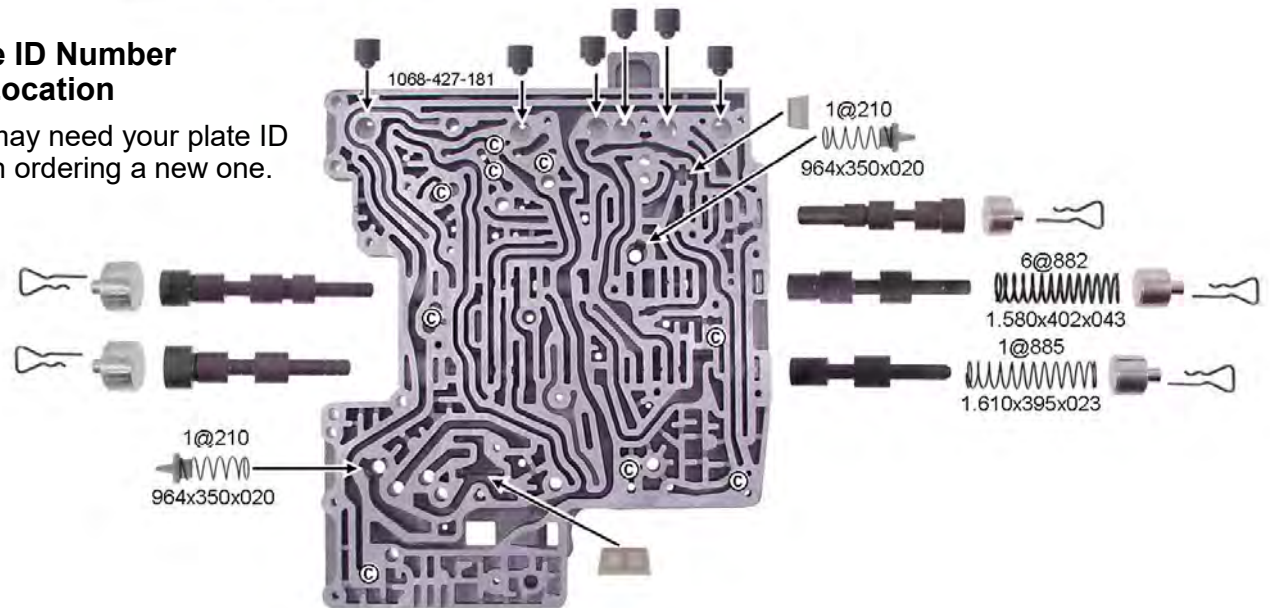
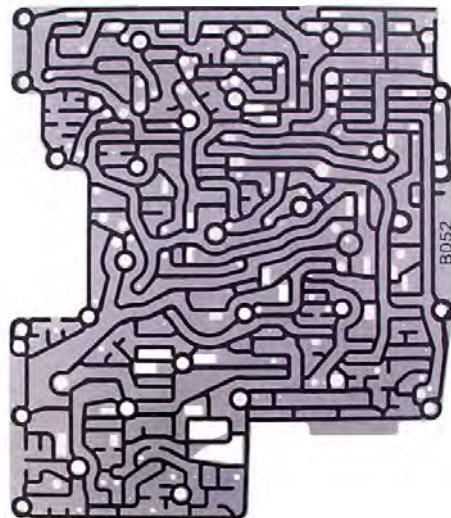


Plate ID Number Location

Distributors may need your plate ID number when ordering a new one.



ZF Additional Information

Typical E-Shift Valve Body Layout

Mark locations of ALL small parts and re-install as you found them. They are model specific.

