

## 4L80E-3

#### Reprogramming Kit®

#### **Features: Total Driver Control!**

#### **No Automatic Shifts**

The trans will be in the gear you select and changes to any gear you choose when you move the selector.

#### **DRIVER** is in full COMMAND!

Gas engines only!



OE pan gasket is required & is not furnished in kit. See page 8 for data.

This is the heavy duty trans that trucks and high horsepower street rods have been waiting for.

Just the ticket for conversions.

#### **Burnouts:**

In water or bleach box: Break it loose in 1st/2nd, then up-shift to 3rd.

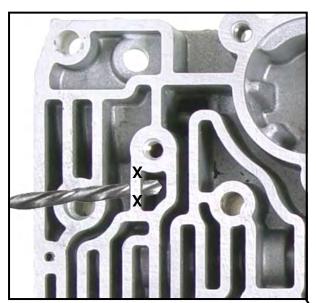
#### THESE ARE THE TRANSMISSION RATIOS:

"1st" 2.48 "2nd" 1.48 "3rd" 1.00 "4th" .75

To find top gear ratio, multiply the axle ratio x .75 [Example  $3.73 \times .75 = 2.79$ ] Other ratios: Multiply axle ratio x trans ratio. [Example  $3.73 \times 2.48 = 9.25$ ]



07 Nov 2014 © TransGo 2014



Step 1 Enlarged

Blue

**Accum Valve** 

New steel plug & O-ring

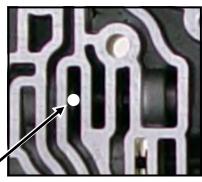
Step 3
Discard original Accum spring and plug.
Install Accum valve, new BLUE spring then new plug with O-ring. Install new end plug with threaded end facing out.

#### Step 1

Between the "X's" on **angle shown**, Center punch first then drill through partition with .125 drill. **Then enlarge with .187" drill.** Drill sizes shown on pg 5.

#### Step 2

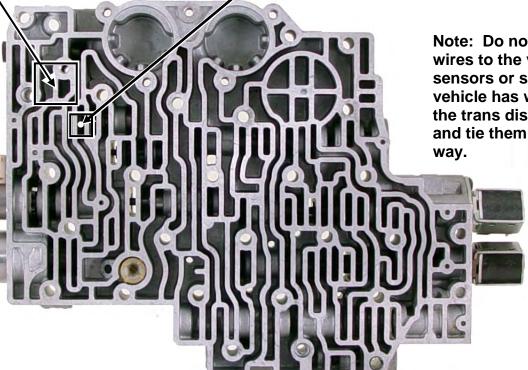
Remove the Accm Valve shown in Step 3. At the white dot drill **down thru the bottom** of the passage with .093 drill. Clean out the drill chips from steps 1 & 2.

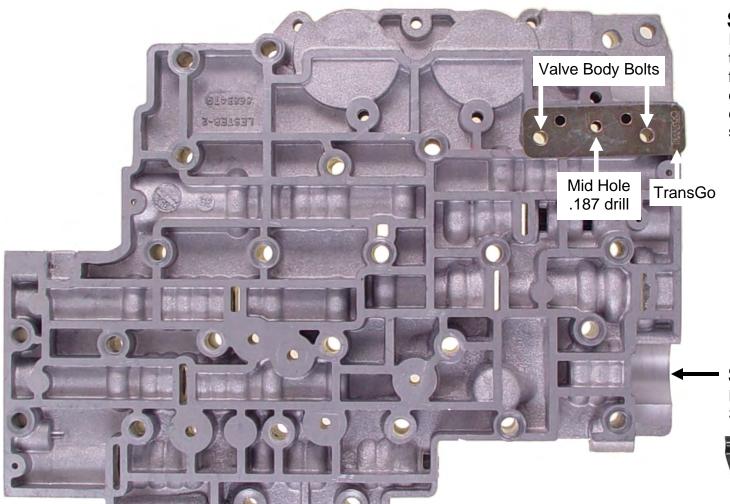


Step 2 Enlarged

Drills Provided: .093-.106-.125-.187

Note: Do not connect any wires to the valve body sensors or switches. If the vehicle has wires going to the trans disconnect them and tie them up out of the way.





#### Step 1

Install relief assembly **cover** with two valve body bolts and the nuts furnished, finger tight. With .187 drill in Mid hole thru the valve body casting. Clean drill chips on both sides of VB when done.

View from Other side when finished.



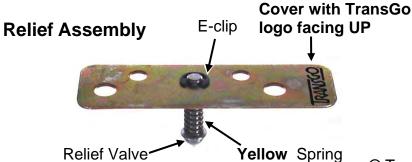
#### Step 2

Remove Pressure Control Solenoid and Bracket.



#### Step 3

Prepare **relief valve assembly** for installation in step 2 page 8. Install **YELLOW** spring on stem end of valve. Push stem end of valve up thru cover while a buddy installs "E" clip. Use patience when assembling Relief assembly, small parts like to fly across the shop.



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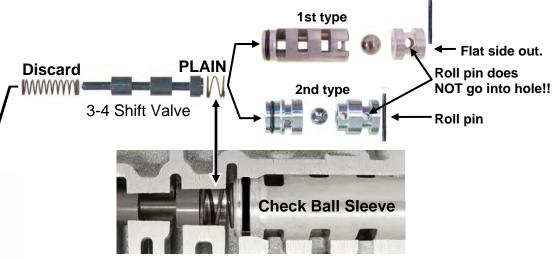
Remove check ball sleeve, 3-4 shift Valve & Spring.

Perform Step 1A next, then continue with Step 1.

Discard 3-4 Shift Valve Spring, Re-install 3-4 shift Valve.

Place PLAIN Spring into 3-4 shift Valve bore between 3-4 shift Valve & Check Ball Sleeve.

# Step 1A With 3-4 valve removed drill .093 through the VB at white dot.



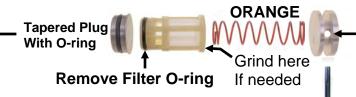
**Step 2** Discard OE 2-3 shift Valve Spring. Install new **RED** spring on roll pin end of valve. **Discard both shift Solenoids**.



**Step 3** Install new 1-2 shift valve end plug & retainer bracket after roll pin.

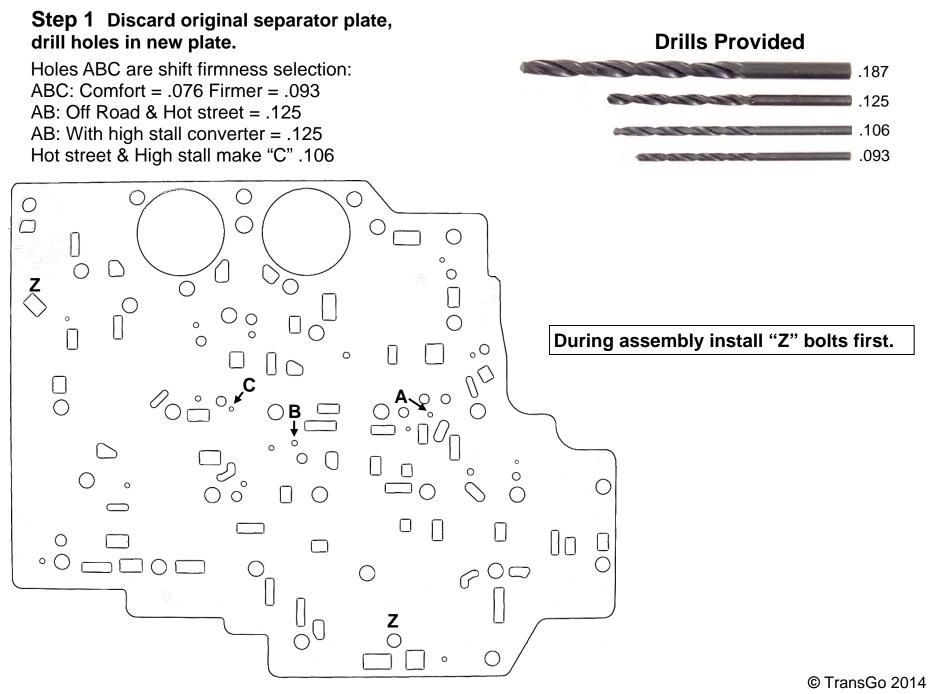


Step 4 Install Tapered plug with o-ring, Filter, Orange Spring & new end plug. If end plug roll pin will not line up with pin hole grind 1/16 off filter.



New end Plug. Roll pin installs in this hole.

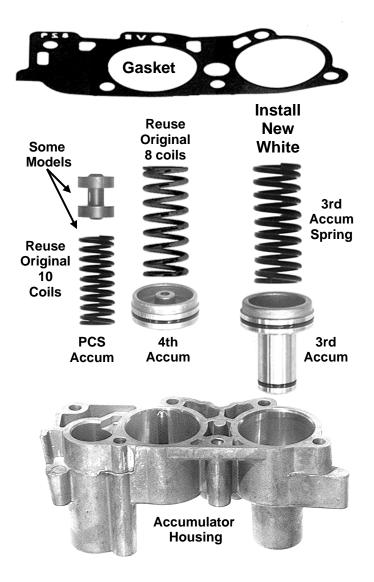
#### **Separator Plate Hole sizes**



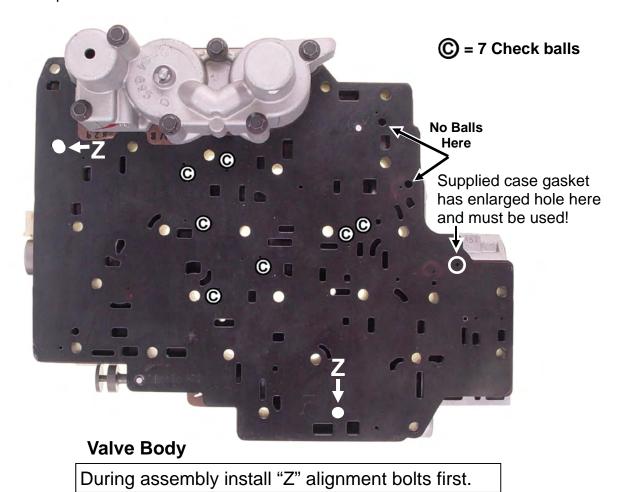
Page 5

#### **Step 1 Valve Body Assembly**

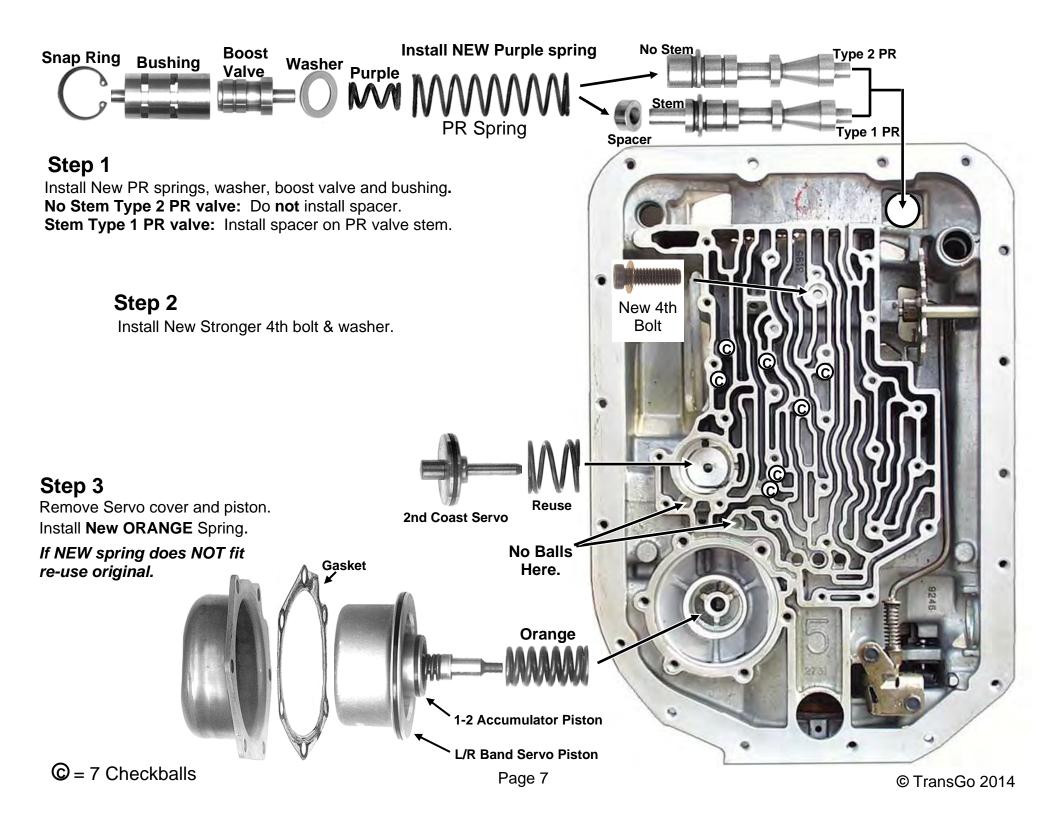
**Note:** The only changes you are making on this page is replacing the 3rd Accum spring. The rest of the steps are for re-assembly purposes.



- A. Discard Original 3rd Accum spring. Install **NEW WHITE** spring.
- **B.** Install gasket onto accumulator housing.
- c. Install **TransGo**® full size gasket and the separator plate onto the valve body. Align the plate and gasket by inserting bolts in holes "Z".
- **D.** Install the accumulator housing and tighten the bolts.
- **E.** Pull out the "Z" bolts. Put a small amount of oil on the plate and place the Case gasket on the plate and align it carefully at the "Z" holes.
- **F.** Place a small amount of assembly gel on the holes for the check balls and place seven 1/4" balls on the holes.



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Step 1

Install & tighten "Z" bolts first. Re-install TFP switch assembly (make sure o-rings are in place) and install remaining bolts & tighten.

Step 2

After tightening all the bolts remove two bolts and install the relief assembly.

Discard the dip stick stop bracket if equipped.

TFP Switch Assy.

You're almost done!

Install Modulator system in separate package.

This is OE molded pan gasket that is required for modulator clearance. Your trans may not have this Gasket, it is not supplied in kit.

GM #8677743

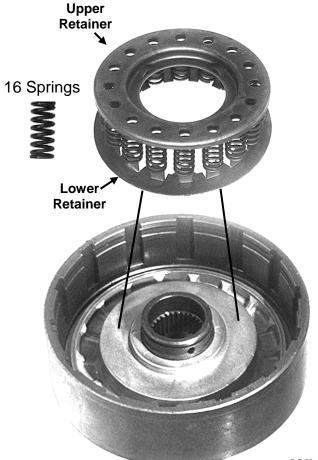
relief valve with small hammer & -1/4" punch 2-3 times to seat it. **TransGo Relief Assembly** Bolt torque is 95 -100 Inch Lbs.

When bolts are tight, Gently hit

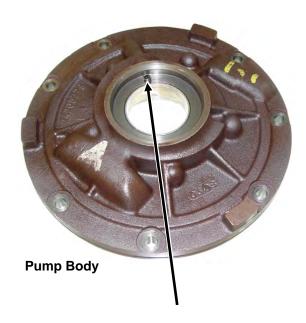
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#### Internal Upgrades—If Trans is Apart.

**Step 1** Carefully pry the lower retainer out of the springs. Then with side cutters grab each spring up close to upper retainer and twist and pull at the same time to remove the springs. Install the springs furnished into the old retainers.



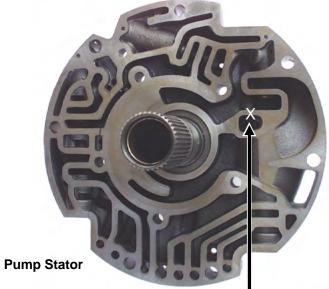
**Direct Clutch Drum** 



**Step 3** To prevent front seal blowout, Enlarge this hole 1/4" to 9/32".

### Intermediate Snap Ring

Step 2 Install new thicker snap ring.
This is the last snap ring that goes in case.
Stops wear on the lugs which reduces lug blowout.



**Step 4** Under "X" drill a 3/64 (.042-.055) hole thru side of wall in direction of arrow.

When using a NON-lockup converter: Order TransGo® P/N 48-CCV to provide corrected oil flow into the converter. Keeps converter full for better cooling.