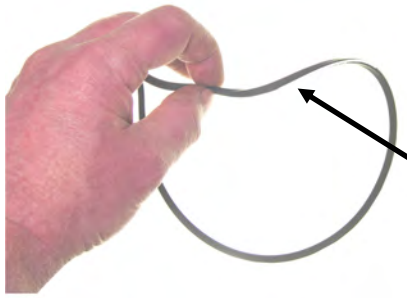
SK®-E4OD-C Shift Kit®

1989up E4OD & 4R100

Reduces/Prevents/Corrects

Converter burnup--Reverse delay--Conv slide/shudder
No reverse hot--Soft shifts--2nd & 3rd Burnup--Pump buzz
Heavy Duty calibration to reduce slipping

If the trans is in the vehicle skip this page.

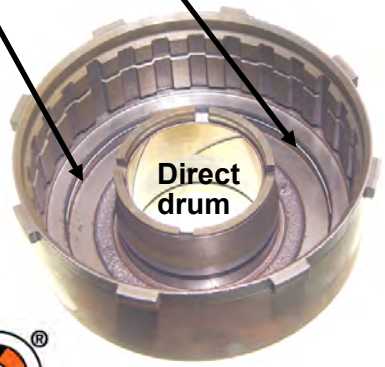


1. Install the **Direct Clutch Seal** furnished.

LISTEN UP: Roll the Seal ***inside out*** as you install it.

Install **seal** with the paint stripe showing.

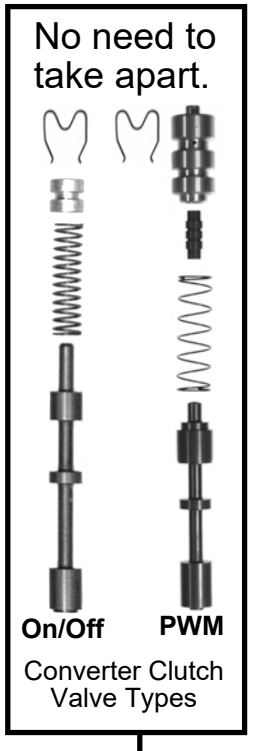
Before installing seal, scrape the ***muck*** out of the groove. A piece of metal ring makes a good scraper.

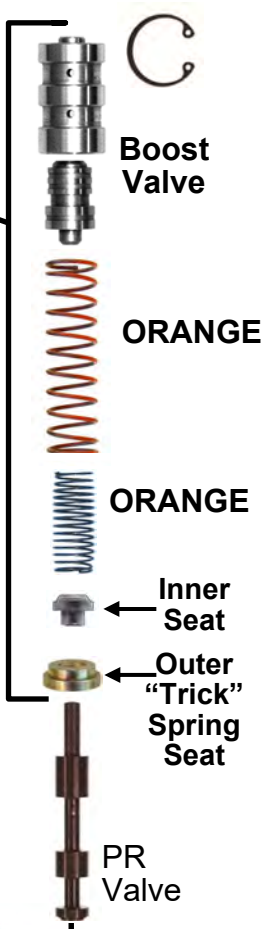


Mr. Shift®

TRANSGO®

4. Remove and discard original Spring Seat, Springs and Boost Valve. Install new parts furnished.

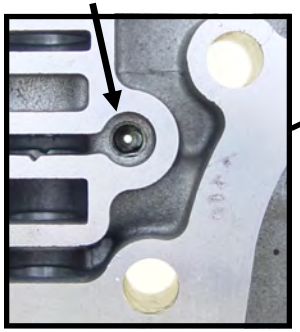




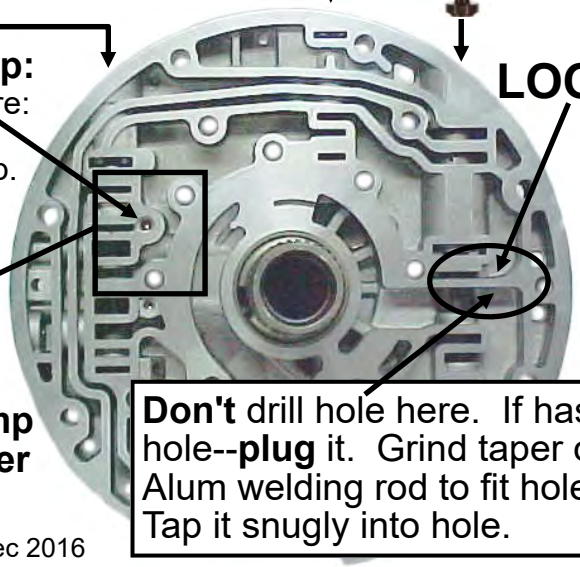
3. YELLOW

Converter Regulator

2. Optional Firmer Lockup:
Models ***with*** orifice cup plug here:
Enlarge hole .086 to .093.
No cup plug here? Skip this step.



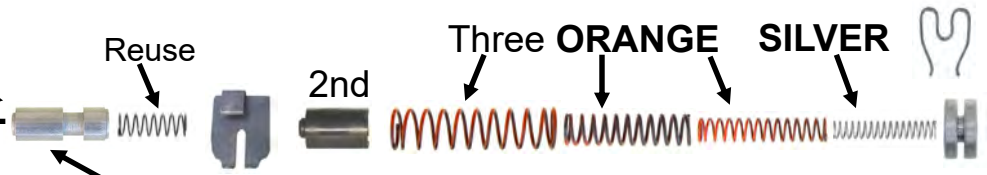
Pump cover



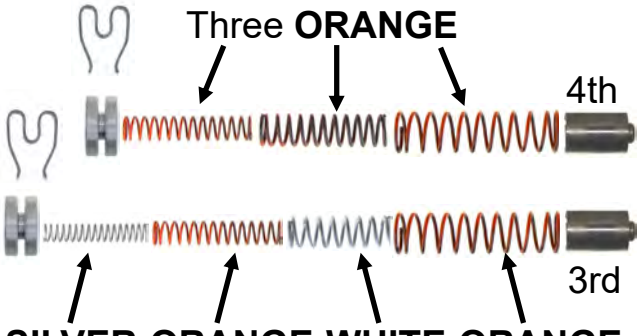
Don't drill hole here. If has hole--**plug** it. Grind taper on Alum welding rod to fit hole. Tap it snugly into hole.

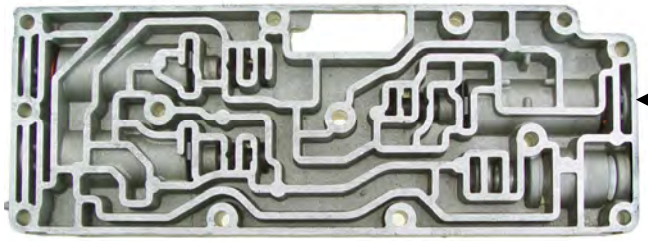
1. Install new springs into the 4th & 3rd accumulator pistons as shown.

Steel valve furnished fits all locations. Now available separately **E4-VL-LR3** pack of 3.

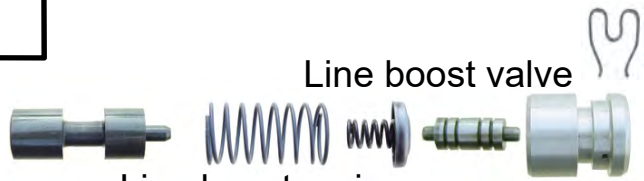


2. Install **Steel Line Reg Valve** & 2nd accum springs as shown.





Accumulator Body

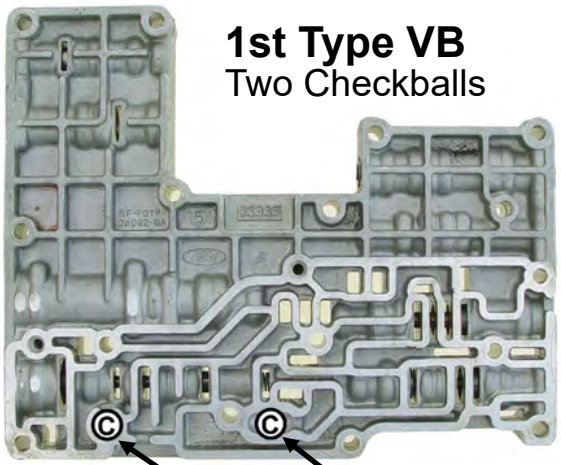


Road test: If very light throttle parking lot 1-2 is bangy install **WHITE** Line Boost Spring.

There are several causes of high pressure that can make abusive shifts. If you have hard shifts, soft shifts or missing gears, let us help, give our technicians a call.

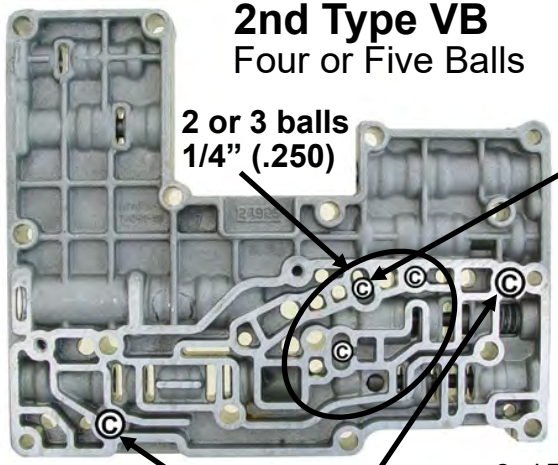
626-443-7451

Valve Body Identification



1st Type VB
Two Checkballs

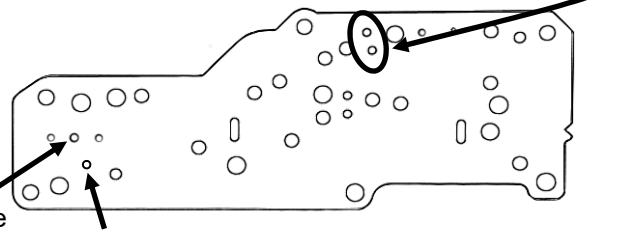
Checkball locations:
Two 5/16” plastic ©



2nd Type VB
Four or Five Balls

Checkball locations:
Two 5/16” plastic ©

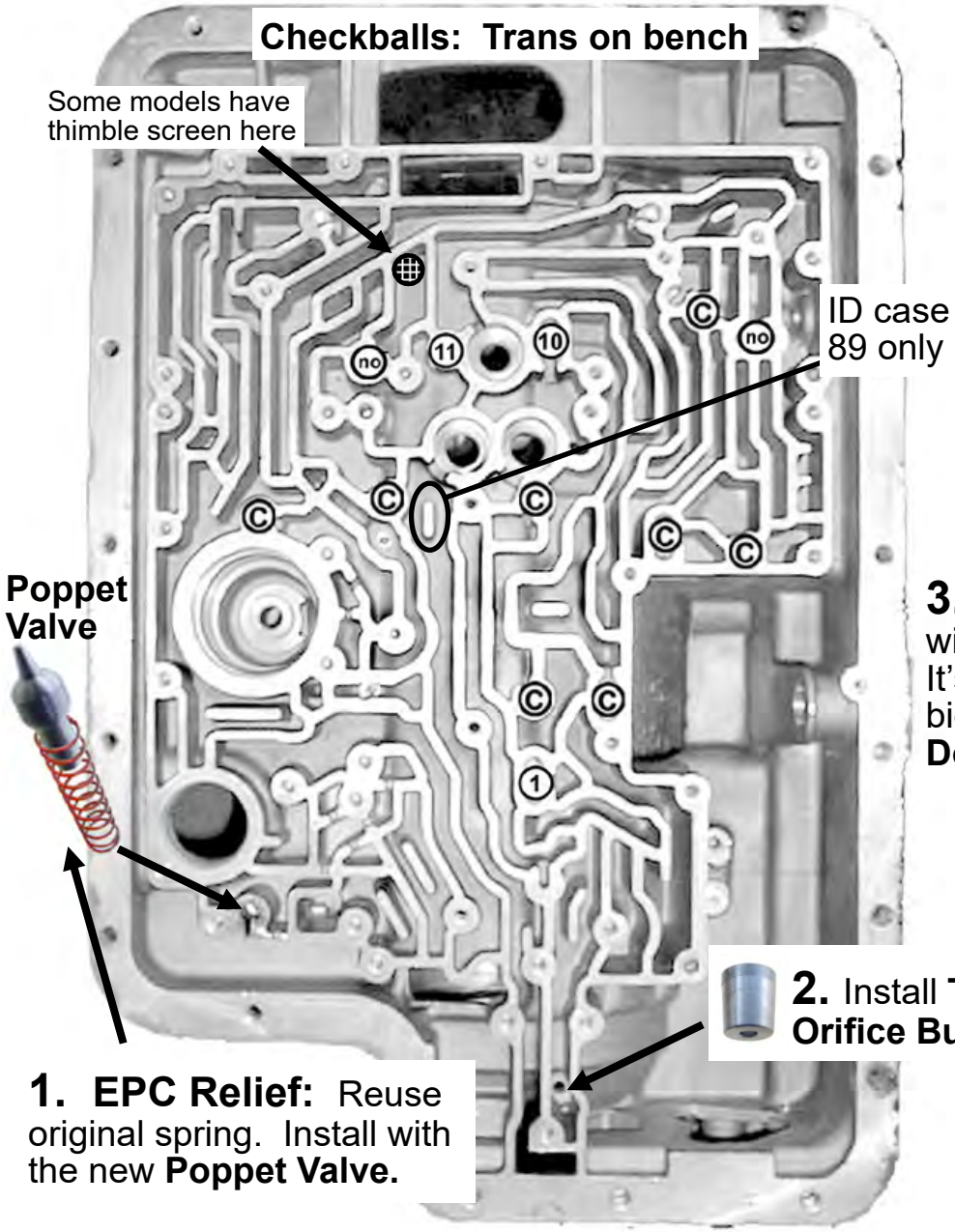
Checkball here?
Look at plate here.
Two holes = Install ball
One hole = No ball



SK E4OD 13 Dec 2016

Checkballs © All models.
Ball 1: 89 to 95 only Balls 10 & 11: 1989 Only
Ball 10 is 5/16" steel when used, all others 5/16" Plastic.

Checkballs: Trans on bench



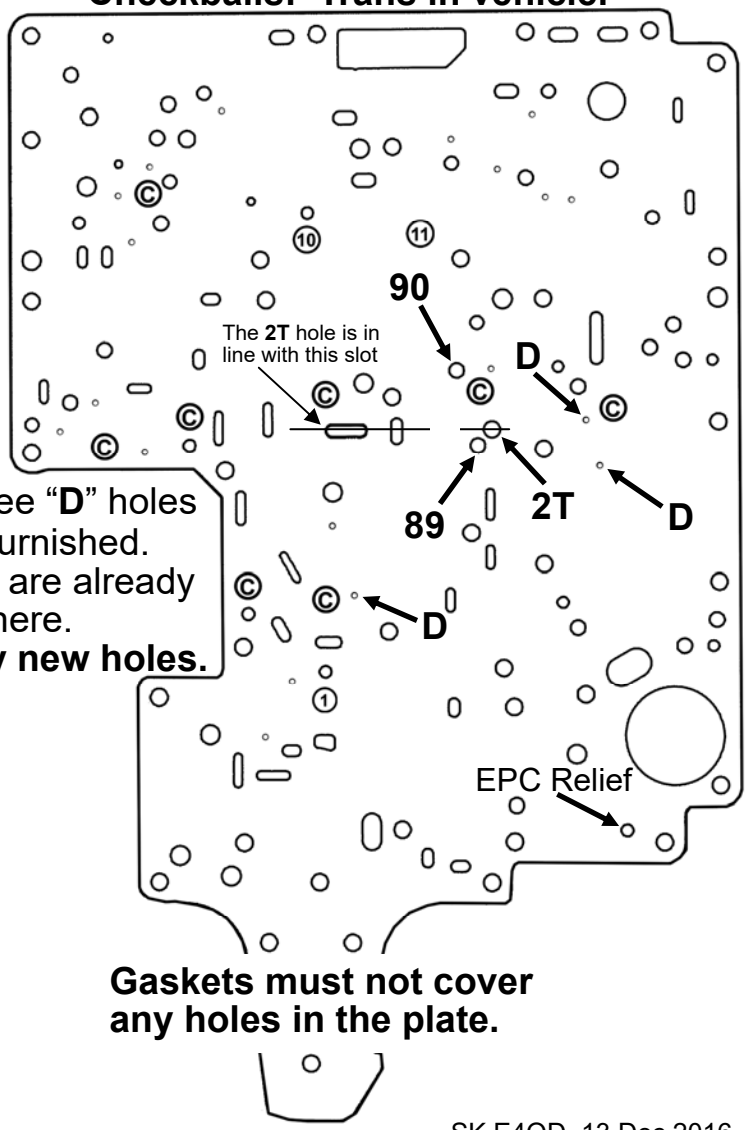
1. EPC Relief: Reuse original spring. Install with the new **Poppet Valve.**

2. Install **Tapered Orifice Bushing.**

Separator Plate

If plate *has* hole 89, install all 11 balls.
If plate *has* hole 90, don't use ball 10 & 11.
If plate has hole 2T don't use ball 1, 10 & 11
When used: Ball 10 must be 5/16" steel, all others 5/16" Plastic.

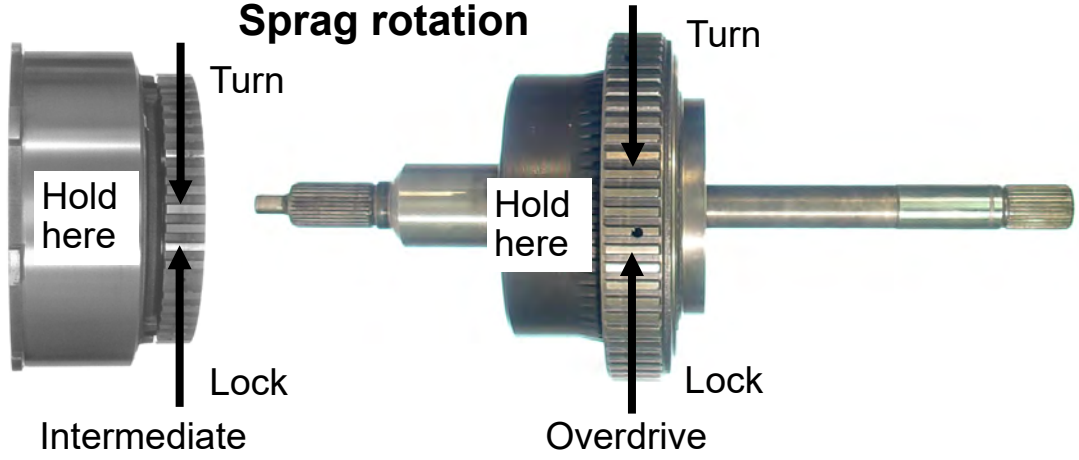
Checkballs: Trans in vehicle.

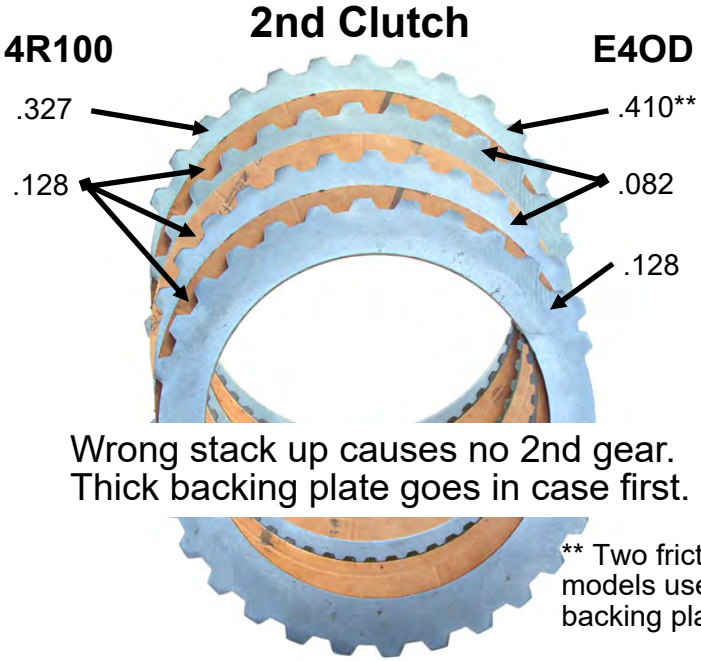


3. Enlarge three "**D**" holes with .081 drill furnished. It's OK if holes are already bigger or not there. **Don't drill any new holes.**

Gaskets must not cover any holes in the plate.

Additional Information from the TransGo Tech Department.

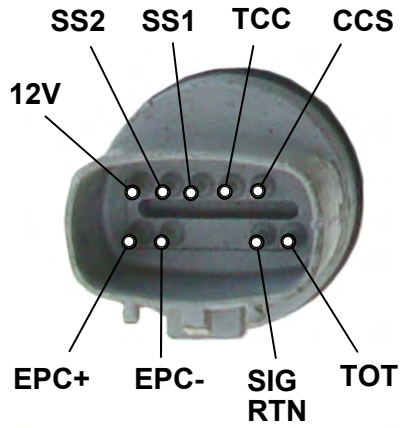




Wrong stack up causes no 2nd gear.
Thick backing plate goes in case first.

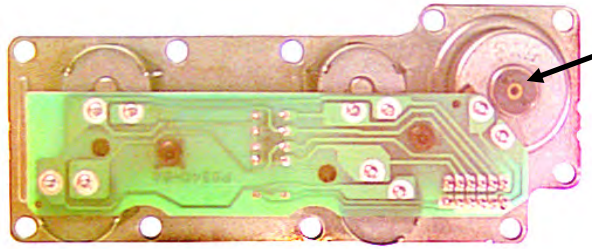
** Two friction models use .585 backing plate.

Connector at the Case



Shift solenoid apply sequence

Gear	SS1	SS2
1st	ON	OFF
2nd	ON	ON
3rd	OFF	ON
4th	OFF	OFF



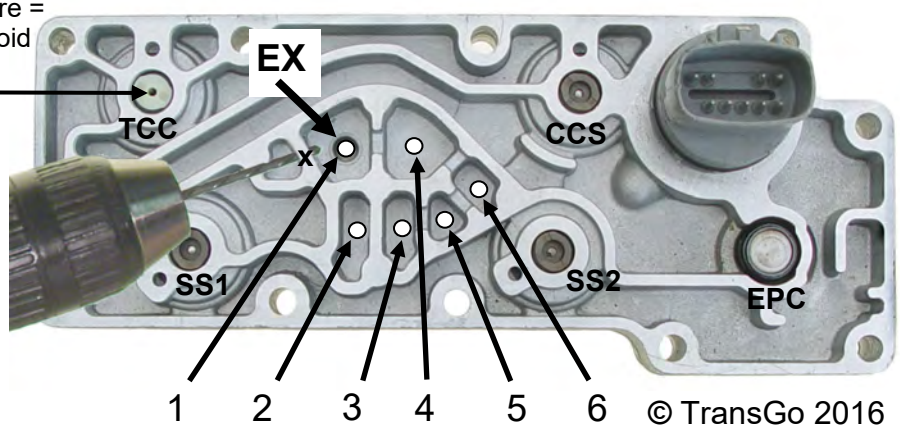
Don't adjust EPC solenoid

Solenoid Pack: If casting ***has*** **hole EX**, **install** solenoid pack ***as is***.

If there is **no hole EX**, **drill** six 1/8" **holes** as shown. Then **drill** one more hole **thru the partition** under "**X**".

Note: Packs **without** "EX" hole were discontinued back in the late 90's. Consider buying a new Pack for long term durability.

TCC Solenoid ID
Ball visible here = On/Off Solenoid
OR
Open Hole here = PWM Solenoid



4R1- SR- 4th

4R100-E4OD 4th Clutch Spiral Lock Snap Ring

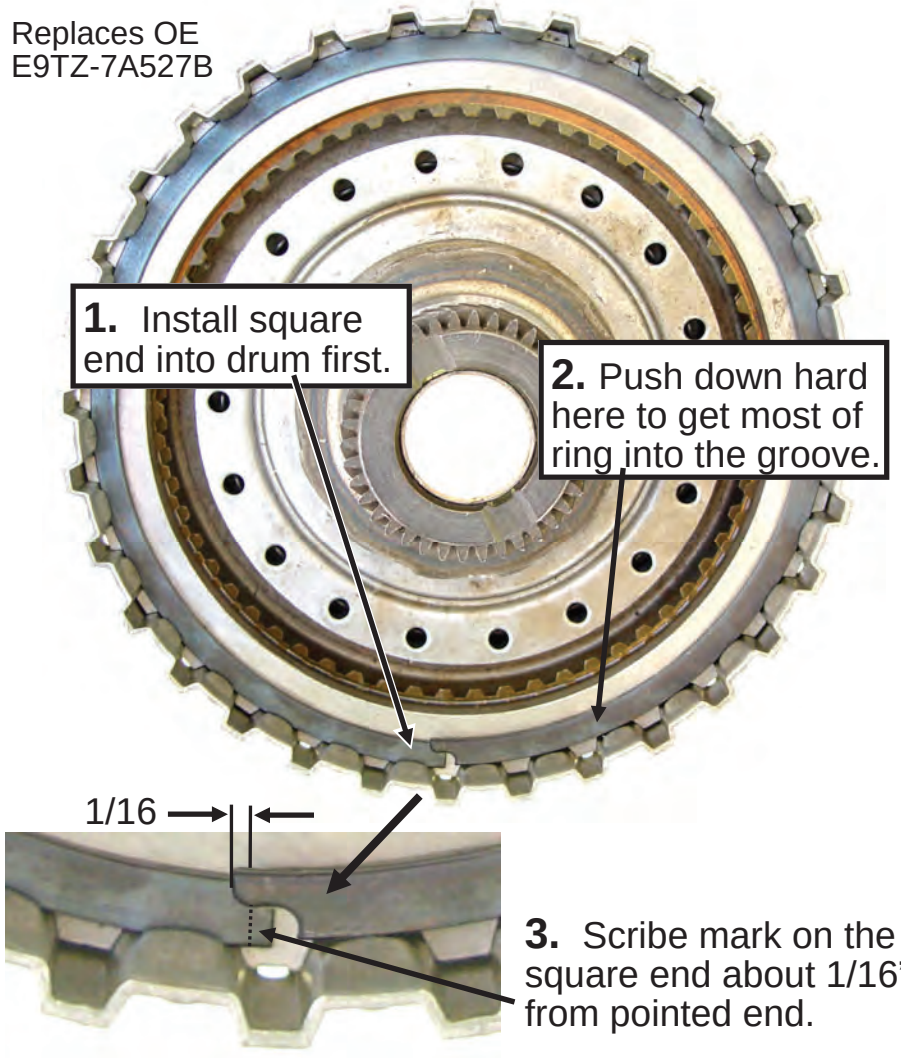
4th piston snap ring Pop-Off:
This has been going on for years – When ring popped off on early models (with cast iron type drum) – no real damage or complaint occurred.

BUT...when 4th piston snap ring pops off on a late model trans (stamped type drum) **MAJOR** damage occurs. Drum catches snap ring & return springs, spins them around, and eventually destroys the housing.

4R1- SR- CST

Butt Lock Snap Ring
4R100 & E4OD Coast Clutch
Stops jump apart and broken pressure plate.

Replaces OE
E9TZ-7A527B

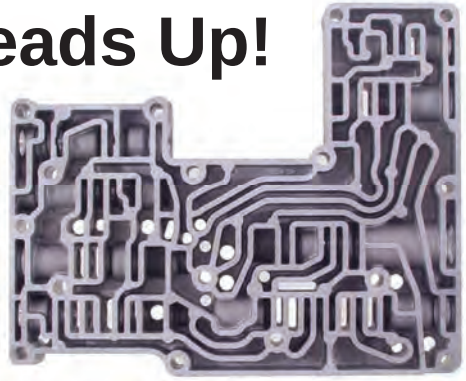


3. Scribe mark on the square end about 1/16" from pointed end.

4. Then grind the square end to the mark and reinstall ring.

15 Oct 04

Heads Up!



It’s not every call but it’s common enough to take a moment to check the 1-2 Shift valve spring on all **RFF6** and **RFF8** casted bodies. It bends and breaks but may LOOK ok unless you take it apart & check it. The new **Blue** spring provided is a replacement. Only use it on bodies that require 4 or 5 check balls under the lower body. **(RFF6 & RFF8 Only!)**

Blue

1-2/D2 Shift