# SK<sup>®</sup>AODE Shift Kit

### 1991-on also fits 4R70W&E & 4R75W&E

Correct/Reduce/Prevent Neutrals on Start Off--Converter Slip 2nd Roller Failure--4th Band Failure 2nd Clutch Burn Up--Kickdown Runaway

### **Upgrade Explanation**

Main complaint with this trans is not shift quality. It's friction durability and internal parts breakage. This kit focuses on cushioning the engine run-up that whacks against the driveline, shafts & sprags during kick down and high throttle up shifts. **During road test:** Notice a 55 to 70 mph 4-2 KD is now a 4-3-2 KD, and completes before the engine and converter have time for a runaway that BREAKS the 2nd roller, diode, and/or shafts.

**4th Band Failure:** Kit fixes forward clutch oil loss that burns band and forward clutch. **2nd Roller Failure:** A high or low pressure run away during 4-2 kickdown, allows engine and converter to have up to a 4000 RPM free run at 2nd roller which crashes 2nd roller or mid-shaft. Installing this kit fixes both high and low pressure causes. And much more.



# While trans is apart

Installing **Special Rings** reduces band and forward clutch failure. This will help prevent a kick-down run away **BANG** breaking 2nd roller, diode or mid-shaft.



## **Additional Information**

### Check fluid level like this

 Pull dip stick and wipe it clean.
Run engine in "P" at twice idle speed [12-1500 RPM] while you count to ten.
Turn off engine and quickly stab stick. Fluid level should be at top of full mark when cold and no more than 1/4" above cross hatch hot.

#### Small OD Servo Uses a Sleeve



# LOOK!

Removing Servo while trans is in the vehicle should only be done by an experienced Trans Tech. No 4th gear can be the result if the band is not kept from moving out of place *before* servo is removed.

Large OD Servo Uses NO Sleeve





### 4th Band (If trans is apart)

Insure quick/full band release during 4-3 kickdown reshape band across the mid portion. Leave first 5" on both ends of band as is.

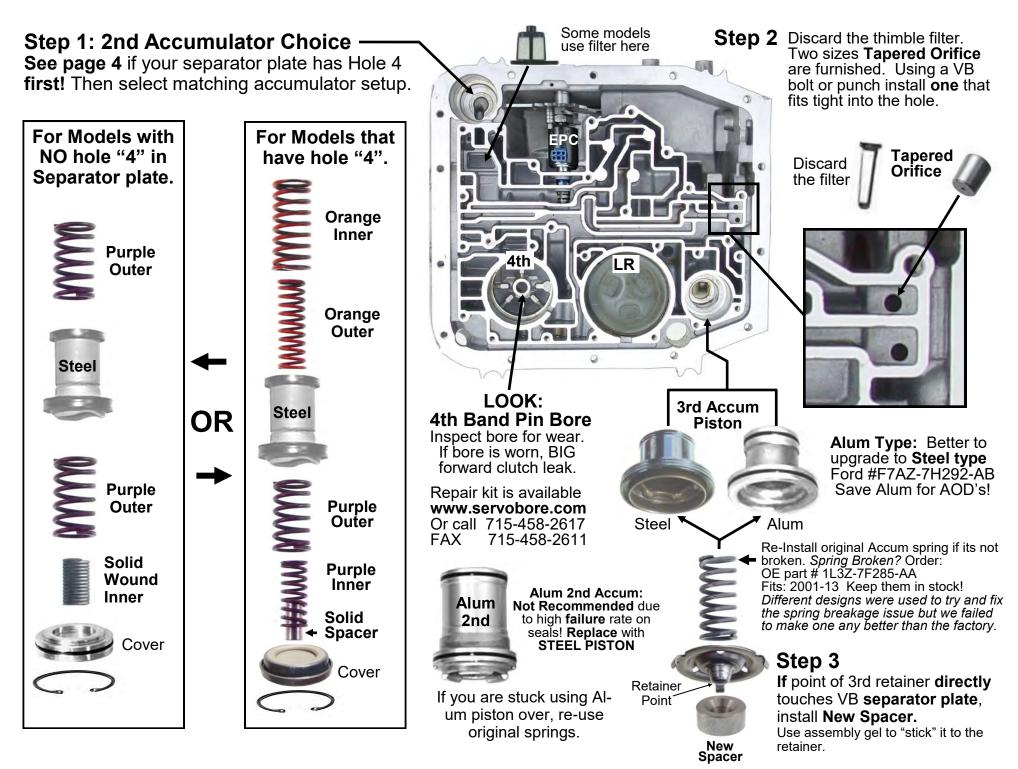
Reshape this area



Disassemble Servo and use pin to check piston and case bore for wear!

Reshaped band

If the old band is severely burned or worn check OD band pin bore wear. See: **LOOK on Page 3**. A broken snap-ring eyelet can get stuck in the OD Servo Reg. valve. This causes a neutral on 3-4 shift.



# Step 1

Drill hole **2X** .194 to .203 [13/64", #10, 9 or 8 drill]. By hand use 5/16" or bigger drill chamfer both sides of plate. Place plate on hard surface. Insert Orifice **Plug** in hole. Hit plug with light hammer. File flush. **Re-drill** hole with .055 drill furnished.

## Step 2 Plate Hole Sizes

ID Plate First: Do you have hole 4 in your plate? Yes or No?

If Yes: **Drill Hole 2:** Passenger = .067 Police/Taxi/HD = .076

### If No:

**Drill Hole 2:** Passenger = .055 Police/Taxi/HD = .063Need it Firmer = .076 - .086

**1&1A:** .055 Ok if already bigger.

**3&3A:** Passenger = .063-.076 [Ok if already bigger or 1 hole is missing.] Taxi/HD/Police = .086-.094

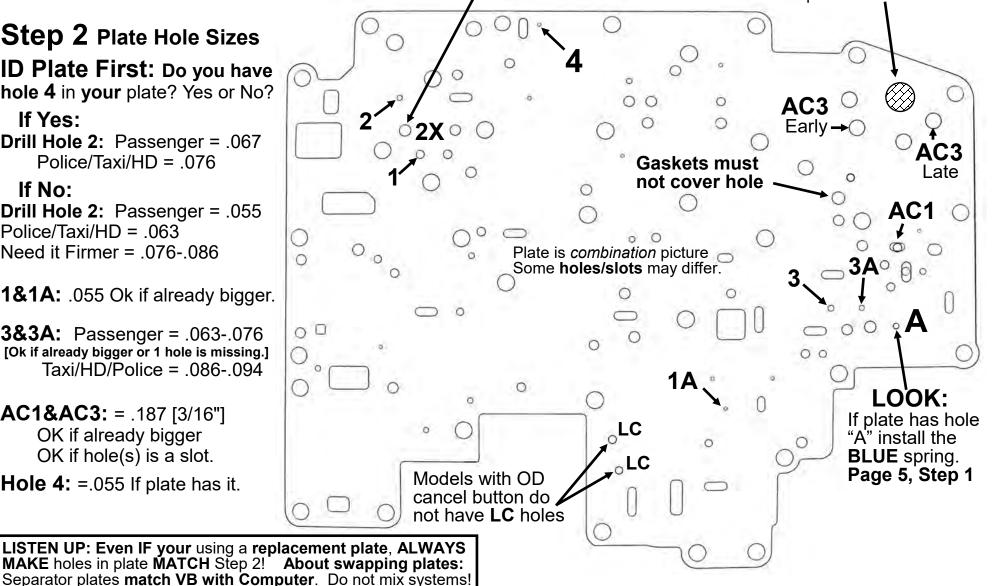
AC1&AC3: = .187 [3/16"] OK if already bigger OK if hole(s) is a slot.

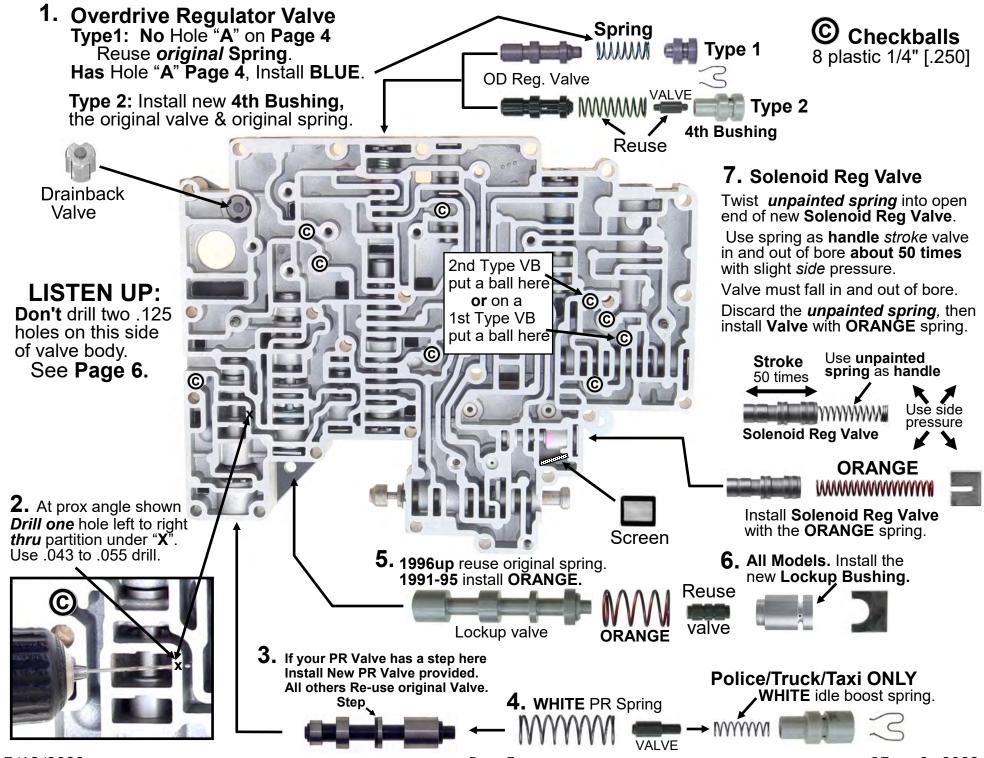
**Hole 4:** =.055 If plate has it.





Listen up! Models without a bolt-down plate here, can develop a small crack in the separator plate in shaded area below. Our new spacer fits pointed end of 3rd accumulator retainer & makes it ok to re-use the plate.





7/13/2023

Page 5

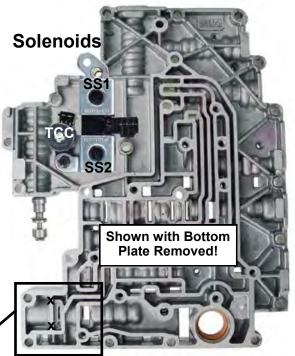
©TransGo 2023

### **EPC Relief Valve**

Corrects uncontrolled line pressure due to electrical malfunction, stuck EPC valve, or cross leaks. Reduces the accidental neutral condition [Run-Away] and brutal 2nd clutch re-apply that breaks 2nd roller or mid shaft.

**Step 1** Remove Thick Bottom Plate. Drill two .125" [1/8"] holes thru this partition from right to left under "X's". Do not allow the side of the drill to contact any partitions!





**Read This:** A main goal of this kit is to reduce and cushion sudden inertial and torgue loads against driveline and internal parts during kick-downs and up shifts. Sudden loads distort internal parts causing them to come apart, break or wear quickly. Kick-downs will be different to reduce engine and converter run-up against sprags.

**POLICE/TAXI:** During jack rabbit stops and starts, start off will be 2nd, not 1st, for about one turn of the wheels. This takes the fast throttle "WHACK" off the driveline and reduces the 3-1 KD engine run-up and whack against the low roller.

