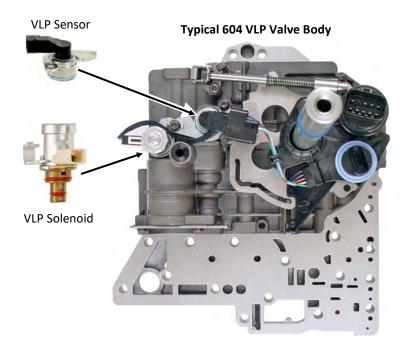
## SK<sup>®</sup> 42RLE-VLP

Fits 42RLE's & 604's with VLP Solenoid & Sensor

2006-2017 42RLE-VLP (RWD) 2006 up 604-VLP, 40-TES, 41-TES (FWD)

### **Corrects / Prevents / Reduces**

TCC Slip/Shudder, Overheating, Delay or No Forward or Reverse, 4-3 and 2-1 Coast Clunk



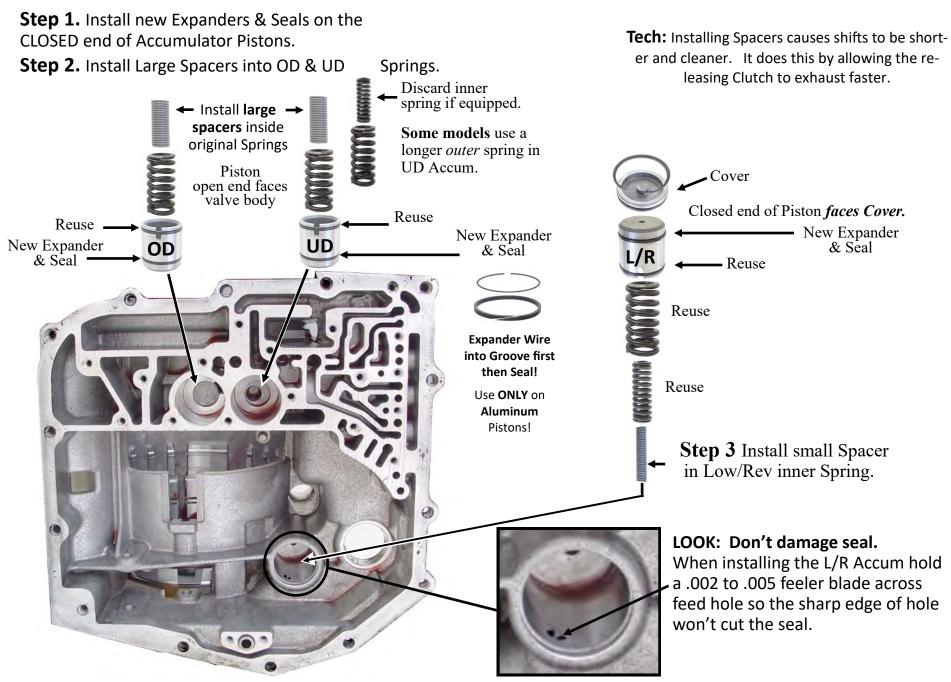
Models Without VLP Sensor & Solenoid Order P/N SK<sup>®</sup>604



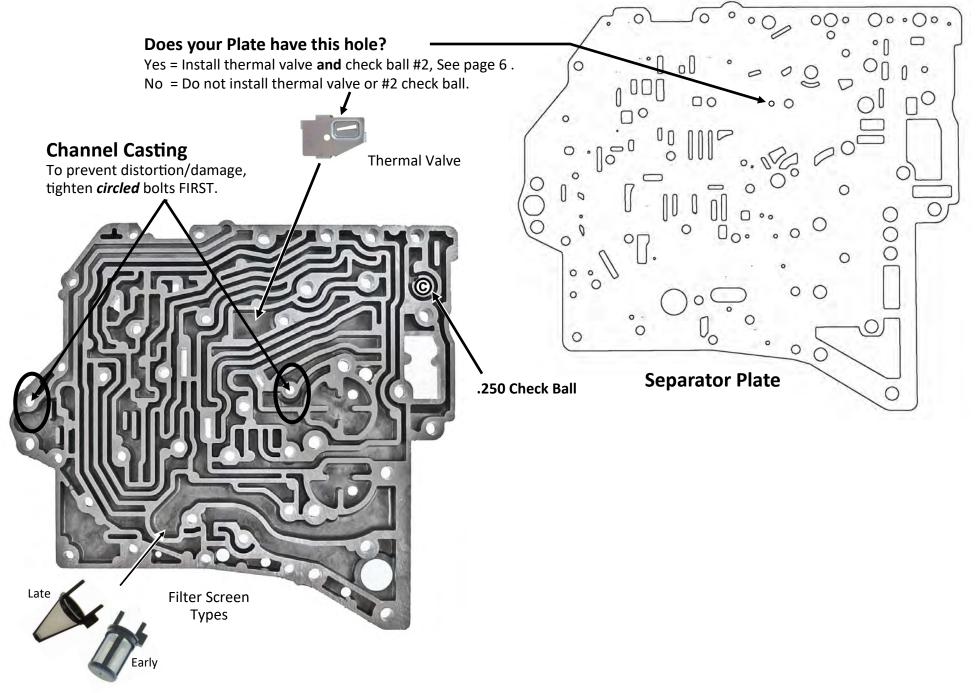


## All Models with <u>Aluminum</u> Pistons do Steps 1, 2 & 3

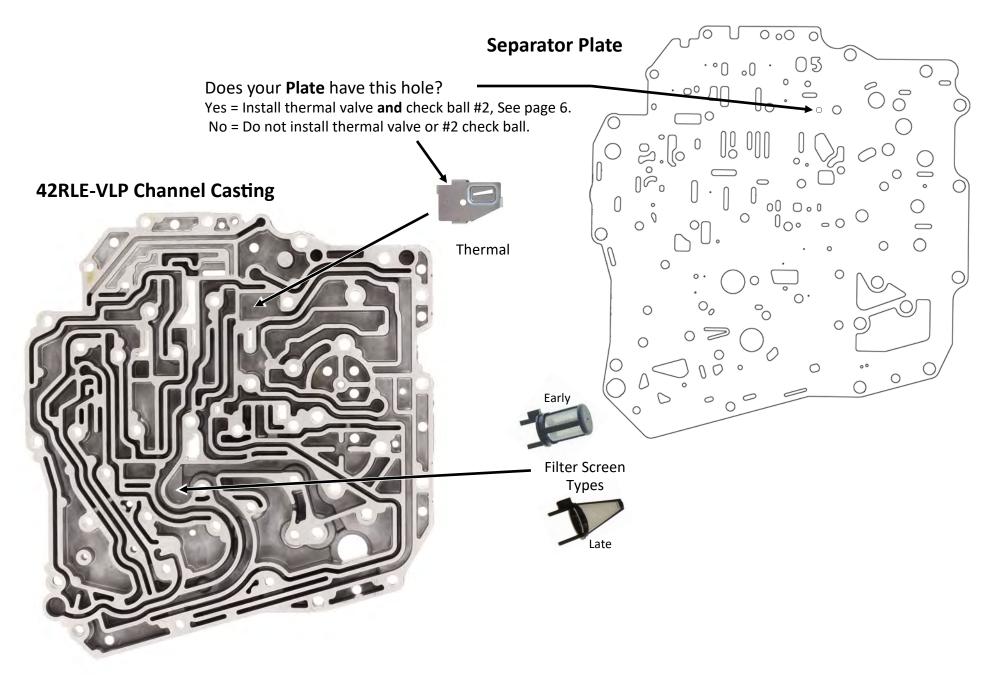
#### Plastic Accumulator Pistons- Skip this page & reassemble all accumulators with Original Rings, Springs & No spacers



# This Page: 604-VLP, 40TES & 41TES



# This Page: 42RLE-VLP



# ALL models use this page.

Some **2006-2008** vehicles may experience **TCC Shudder** complaints due to a combination of applying Lockup at very low speeds and controlling the slip speed during converter apply. The factory later introduced changes to the converter lining, computer strategy and other areas to try and reduce shudder complaints. Using a better calibration for the type of converter lining used will be a step forward in the right direction.

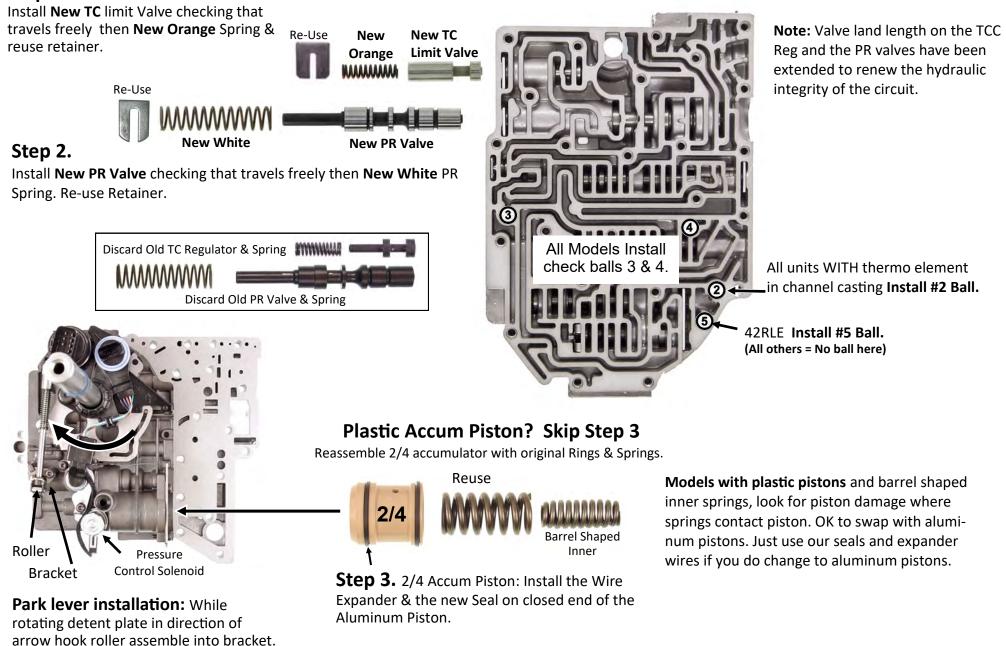
pressure counter, clear codes & do a quick learn.

**Tech Tip:** When working on VLP units & before road testing, reset line

42-RLE's with VLP build before April 28 2008 Should have the PCM flashed with the latest software. Low speed partial apply TCC operation is greatly improved with software update. Step 1. Converter Lining vs. Calibration 2008 & earlier models have non-grooved lining. Use New Blue spring. 2009 & later models use grooved lining. Use New Yellow spring. Retainer T/C Ctrl T/C Ctrl End Plug Accum MMMMM T 2 New Plain Retainer New Blue or Yellow Spring. Step 2. Discard the original T/C Accum Spring Retainer Retainer Install the New Inner & Outer Springs

# ALL models use this page.

### Step 1.



## 604/42RLE 4th Type\*\* Stack-up

**UD clutch:** Has four .073 thick frictions. High Energy/Brown Paper **OD clutch:** Has four .073 thick frictions Should be High Energy.

Reverse clutch: Has two .073 frictions High Energy/Brown Paper

Note: Some small engine models can come equipped

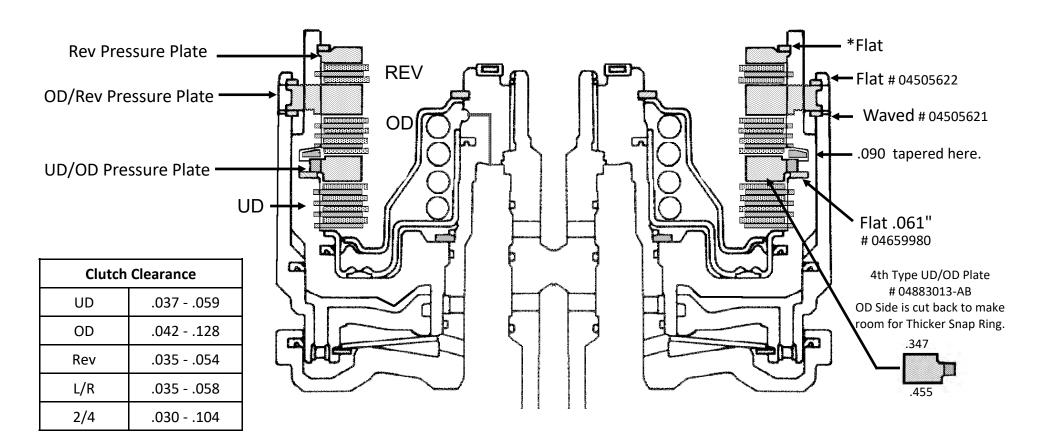
with only 3 OD clutches & 1 Reverse clutch. This stack-up is not covered here. Use your specific vehicle data when ordering replacement parts.

**UD stack-** Start with .068 steel plate, alternate .073 clutch plates, the stack will end with a friction. Install .061" flat snap-ring, 4th design UD/OD Pressure plate then tapered .090 snap-ring.

**OD stack-** Start with .073 friction plate, alternate with .068 steel plate. The stack will end with a friction plate. Install waved snap-ring, OD/Rev Pressure Plate then install flat snap-ring.

\*Rev stack- Start with .073 friction, .068 steel, .073 friction, Pressure Plate and flat selective snap-ring. Selective Rev Snap Rings: 1.53-1.58mm- # 04377195, 1.77-1.83mm- # 04412871, 2.02-2.07mm- # 04412872, 2.27-2.32mm- # 04412873.

\*\*Earlier stack-up- Types 1 through 3 can be found in the SK 604 kit Additional Information Lesson 3A



# **New Products!**

Available Now!

## RFE-SV420-WT

(With Tools)

Solenoid Switch Valve Repair Kit.

### **Corrects/Prevents/Reduces**

Multiple codes on various models such as P1776 Solenoid Switch Valve latched in L/R, P1775 Solenoid Switch Valve latched in TCC, L/R pressure switch rational or circuit error, OD clutch failure, Kills engine at a stop, TCC Slip

> This product fits 604, 606, 42RLE, 45, 545 & 68 RFE's equipped with a .420 diameter switch valve.



# Transmission Parts With An Engineering Difference CORRECTS, PREVENTS, Difference REDUCES AND UPGRADES You'll just Love it



RFE-SV453-WT (With Tools)

Solenoid Switch Valve Repair Kit.

### **Corrects/Prevents/Reduces**

Multiple codes on various models such as P1776 Solenoid Switch Valve latched in L/R, P1775 Solenoid Switch Valve latched in TCC, L/R pressure switch rational or circuit error, OD clutch failure, Kills engine at a stop, TCC Slip

> This product fits 604, 606, 42RLE, 45, 545 & 68 RFE's equipped with a .453 diameter switch valve.





### "No Tool" Refill Kits Available

RFE-SV420-NT fits .420 Valve RFE-SV453-NT fits .453 Valve Includes 1 Valve, 3 slugs & 1 Spring.

# **Underdrive Ring**

Fits: 62TE/604/606/42RLE (Including VLP models) Corrects / Prevents / Reduces

Delay or No Forward, Rough Coast Down 4-3, Limp coming to a stop.

#### Read this first:

Close inspection of Underdrive piston bore will often show wear and a ridge where the piston has rubbed against the seal groove in the input hub. This ridge nibbles the seal and the wear causes a cold leak.

With a worn piston or a cut seal there will be a delay or no forward cold and sometimes limp-in on cold startup into drive until the seal warms and becomes more pliable.

Also, during a long run in 4th the seal relaxes and can fail to re-seal quickly on a 4-3 coast downshift between 28 and 19mph. The computer sees the delayed apply by watching the speed sensors and places trans in limp.

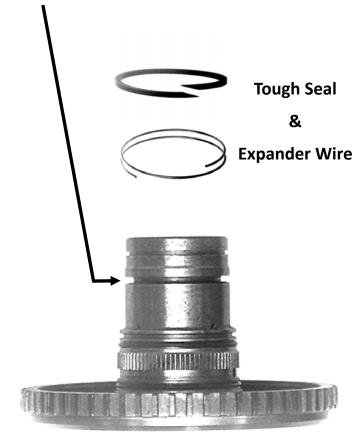
A temporary solution is a new piston. A better fix is to install this quality self expanding seal that is pliable enough to seal into worn area and tough enough that the ridge won't cut it. Install it with confidence.

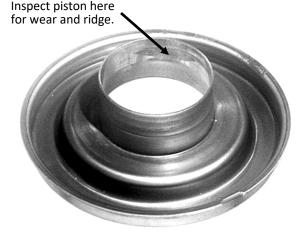


### **UD-Ring Installation**

Tough Self-Expanding Seal:

- A. Install wire expander into groove.
- B. Then install the seal.





**PLEASE:** Don't hone, sand, scrape, polish or try to fix the piston in anyway. Leave it as-is. If it's really bad, replace it and use the new expander & seal for a long term fix.

**Note:** Seal does not air check very well, but works great in the trans, even with a badly worn piston.