4L60E-HD2-D *Reprogramming Kit*[™]

Does Not Fit Hybrid Models

Features: Gear Command

Holds Manual 1st--2nd--3rd to any RPM--Backshifts to gear you select.

Corrects/Reduces/Prevents

3-4 Clutch and 2nd Band Burn-up--Bang, Bump or Slide Bump 1-2 Shift Reverse to Drive Cutloose/delay/bang--Neutral to drive Cutloose/delay/bang Forward & Low/rev clutch burnup--Long and/or soft aggravating shifts Reduces code P1870, converter slip/shudder Overheat caused by slipping converter

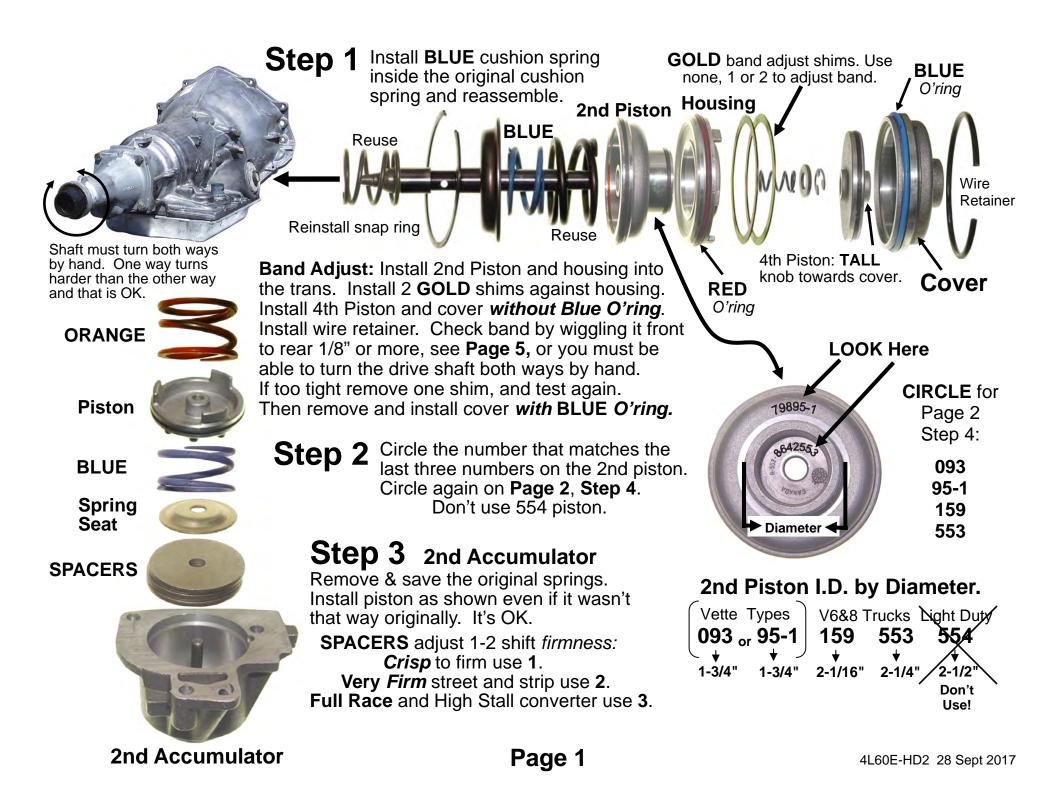
New Tech's & DIY's:

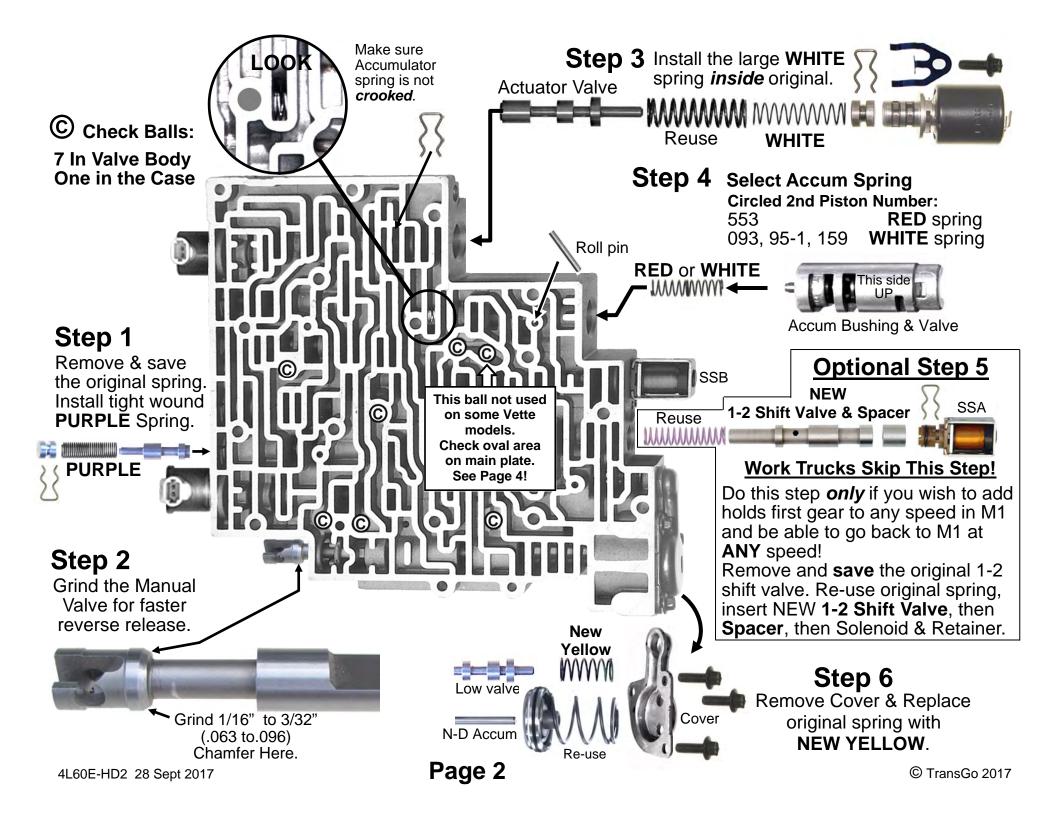
Start this habit when working on cars- Always save your old parts & trash'em two weeks after the job **drives** away. It may just save your Butt one day!

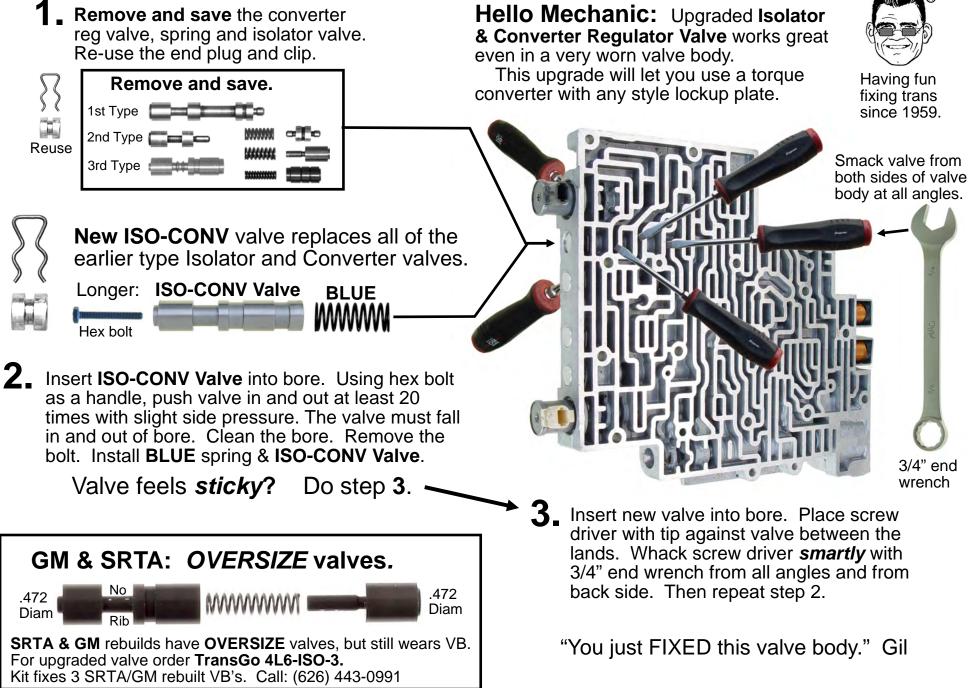


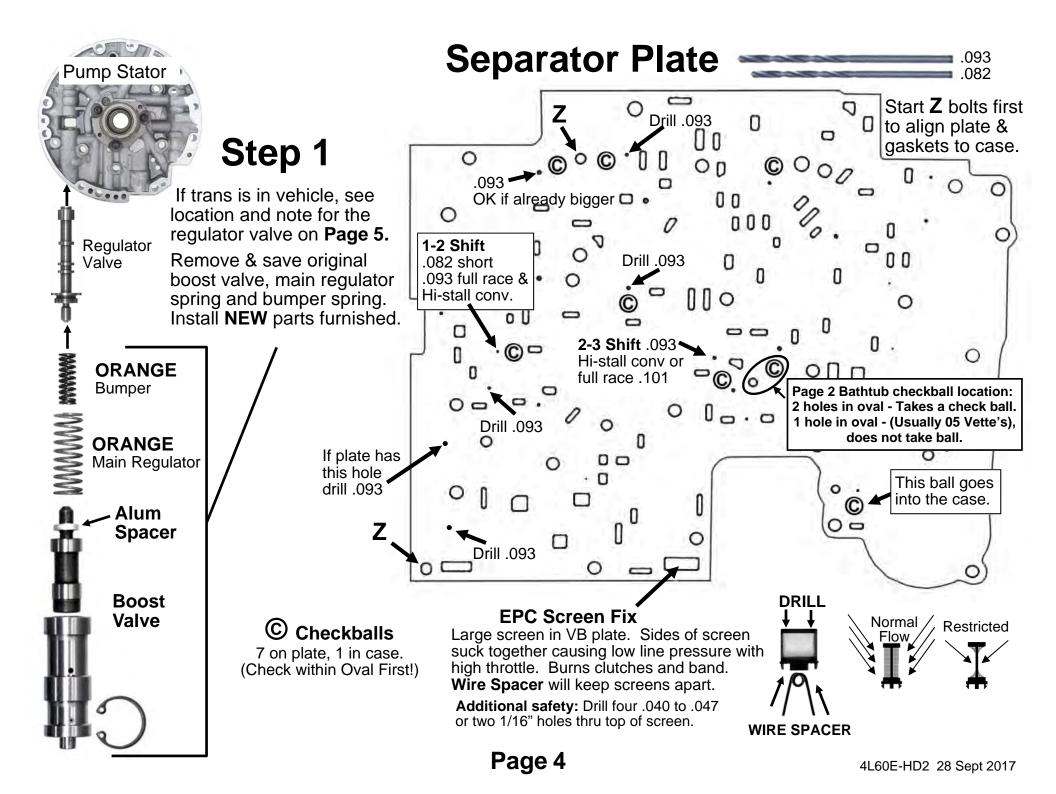


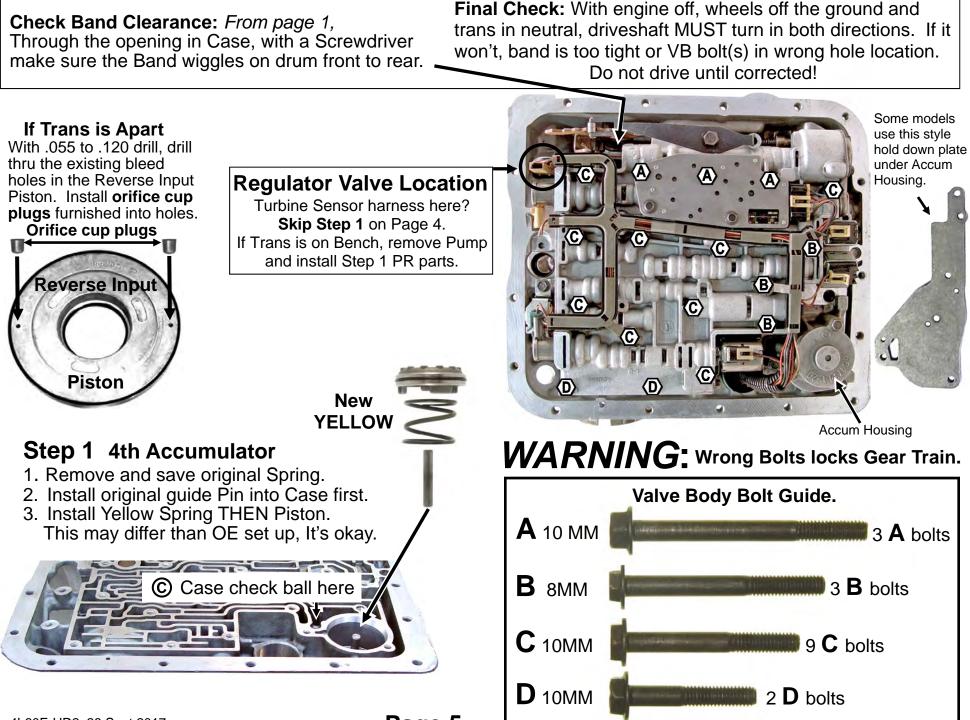
4L60E-HD2 28 Sept 2017











7-CS 700R4 & 4L60E Clutch Spring Kit

For High Performance Applications that rev **OVER 5500 RPM**. Designed for use with either the 4I60-HD2 or 700 2-3 Reprogramming Kit® Under 5500 rpm operation? This product is not needed, however you may install it if you follow instructions for "Under 5500 RPM".

Problems & Solutions:

Problem 1: Above approx 5500 rpm, the check ball in the air bleed capsule of the input drum may not seat due to outward centrifugal force. When that occurs, you now have a **BIG** leak in 3rd gear oil. (The orifice provided fixes that.)

Problem 2: This same centrifugal force causes the residual fluid under the 3-4 piston to stack up at the outer edge and lift the piston up dragging the 3-4 clutches around in 1st and 2nd above 5500 RPM. (The springs provided fixes that.)



Problem 3: At even higher RPM's, centrifugal force acts on the inner seal of the 3rd clutch piston causing it to pull away from the forward clutch steel housing. This usually starts above 6200 rpm's (varies) and creates a leak in 3rd that gets worse and worse with more RPM.

This softens the 2-3 shift feel and worsens progressively as shift point RPM goes up. Finally it flairs or won't even complete the 2-3 shift. This burns the 3-4 clutch and hazes the band.

Try lowering your 2-3 shift point below 6000 and retest.

(Skip this step for Under 5500 RPM use.) **Step 1:** Identify your drum.

3rd type: Protruding type capsule **2nd type:** Recessed type capsule. See additional data on page 2.

1st type: No capsule (not shown) ball in drum. Don't use for High rev applications. Use later drum, converter & pump.

Gil

"Thanks for Listening'





(Skip this page for Under 5500 RPM use.)

Step 2: Remove pistons. Drive the capsule out with punch from this side of drum.



After orifice is installed 3-4 piston should not rock when placed in drum.

2nd type capsule only: Grind the head of the new capsule to the dashed line. Clean grinding flash from orifice hole.



Grind here

Step 3: If you have 2nd type capsule be sure to grind the new 3-4 orifice as described above. 3rd type capsule, No grinding required. Place new 3-4 orifice in housing and gently tap in with 1/4" flat nose punch.



700/4L60E Clutch Spring Installation:

Reduces 3-4 Clutch Burnup Caused by Cross-leaks, Centrifugal Apply and Slow KD Release

3-4 Spring Retainer Types

1st type retainer: No Hooks If the **White** springs will snap over the flares on retainer use them. If flares are to big use small **Plain** tapered springs with the large end over the flares.

Tang

This keeps the 3-4 clutches from accidentally applying because of minor cross leaks at the rings, support, case or valve body. It also reduces clutch drag during 3-2 kick-down and prevents residual oil clutch apply at revs above 5500. This spring kit works with the standard 3-4 clutch pack or when

installing additional plates.

Step 1 For **Under 5500 RPM** use: All V6, V8,s & Diesel's Install 14 New Springs that fit your retainer. Install two springs then skip one, install two, skip one, all the way around retainer.

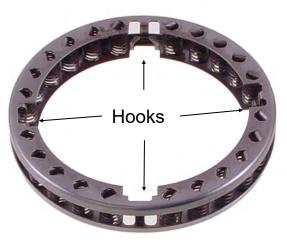
For over 5500 RPM use only: Install All 22 Springs

2nd type retainer Has Hooks : Use **Yellow** springs Install small end of springs on tang side of retainer. Bend hooks inward so they won't hook.



Remove these return springs if you are using this kit.

If you **are not** using this kit always put them back in.



2nd Type 3/4 retainer Has Hooks

1st Type 3/4 retainer No Hooks

Flare

Installation Washer





1st Type Retainer No bottom

Install Plain Springs

Fwd / Coast Spring Retainer Types

Step 1 For **Under 5500 RPM** use: V6, V8,s and Diesel install 10 New large plain springs leaving blanks at 3, 6, 9 and 12 O'clock Large plain springs are tapered. Install the end that fits your retainer.

Over 5500 RPM use only: Install All 14 Springs

Installation washer only used for assembly. Place on top of retainer while compressing springs.

Installation Washer





2nd Type Retainer Has bottom Install **Plain Springs**



Aluminum Piston

Note: If you change the 3-4 springs you MUST change the Fwd / Coast springs as well.

They work together as a team. Do not attempt to use them alone.



Steel Piston