

SK®6T40-G2

Fits: Gen 2 6T30, 6T40, 6T45 & 6T50

Corrects/Prevents/Reduces

Ratio or Solenoid Performance Codes, Erratic TCC or TCC Hunting, Includes NEW drop in Pressure Regulator Valve that reaches beyond the worn area in the bore. Includes oversize Actuator Feed Limit valve (See note.)

Note: This product requires

TransGo® # **AFL-G2-TK** Tool kit to repair the Actuator Feed Limit system.



Does Not Fit Gen 1 (Has Pressure Switches)
Does Not Fit Gen 3 (Has Chain Driven Pump)

Warning: A Gen 2 PR Valve mistakenly installed into Gen 1 Pump—*Can Cause Severe Damage!*

The transition from Gen 1 to Gen 2 units occurred from 2012-2014, be careful! Use the TEHCM to ID the system (See page 4). Gen 1's have pressure switches, Gen 2's do not. All 6T30's, 40's, 45's & 50's: The TEHCM type and the Transmission version are matched for Vehicle, Generation & Programming. Do not cross-mix them.

Pump Gear Info

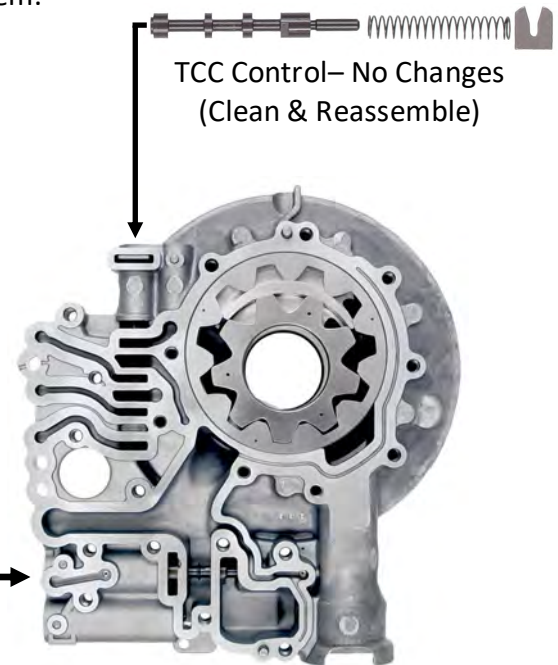
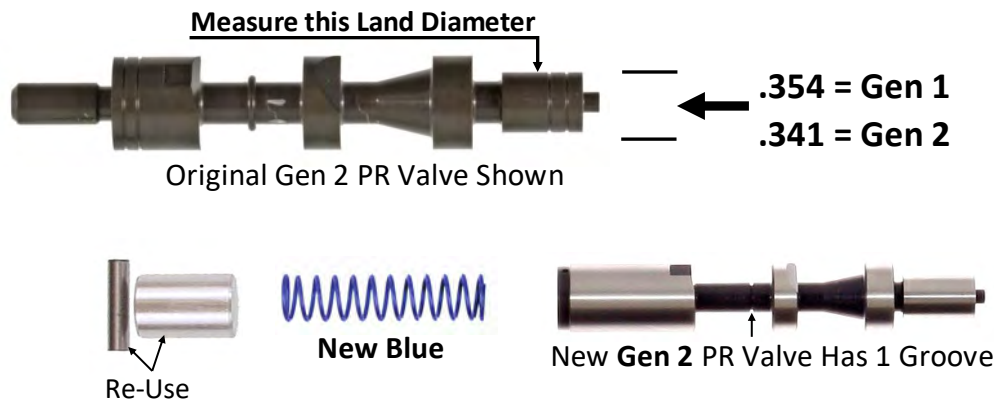
Dots on both gears face up at you when installed correctly!



Step 1 ID the PR valve to use the correct Product.

Gen 1's inner land on **original** PR valve measures .354" Use: SK 6T40

Gen 2's inner land on **original** PR valve measures .341" Use: SK 6T40-G2



Step 2 If original inner PR land measured .341" discard original Pressure Regulator valve & spring. Install **New Pressure Regulator Valve**, **New Blue** Spring, Reuse end plug & pin.

Main Body Repairs

To repair the AFL bore requires the TransGo # **AFL-G2-TK** Tool kit.

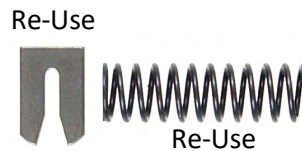


Tool Kit fits 3 **different** transmissions, just use the correct reamer guide.
Fits All **Gen 2 Vb's** 6F35's, 6T40's & 6T70's.

Tip: *Have an old parts washer?*

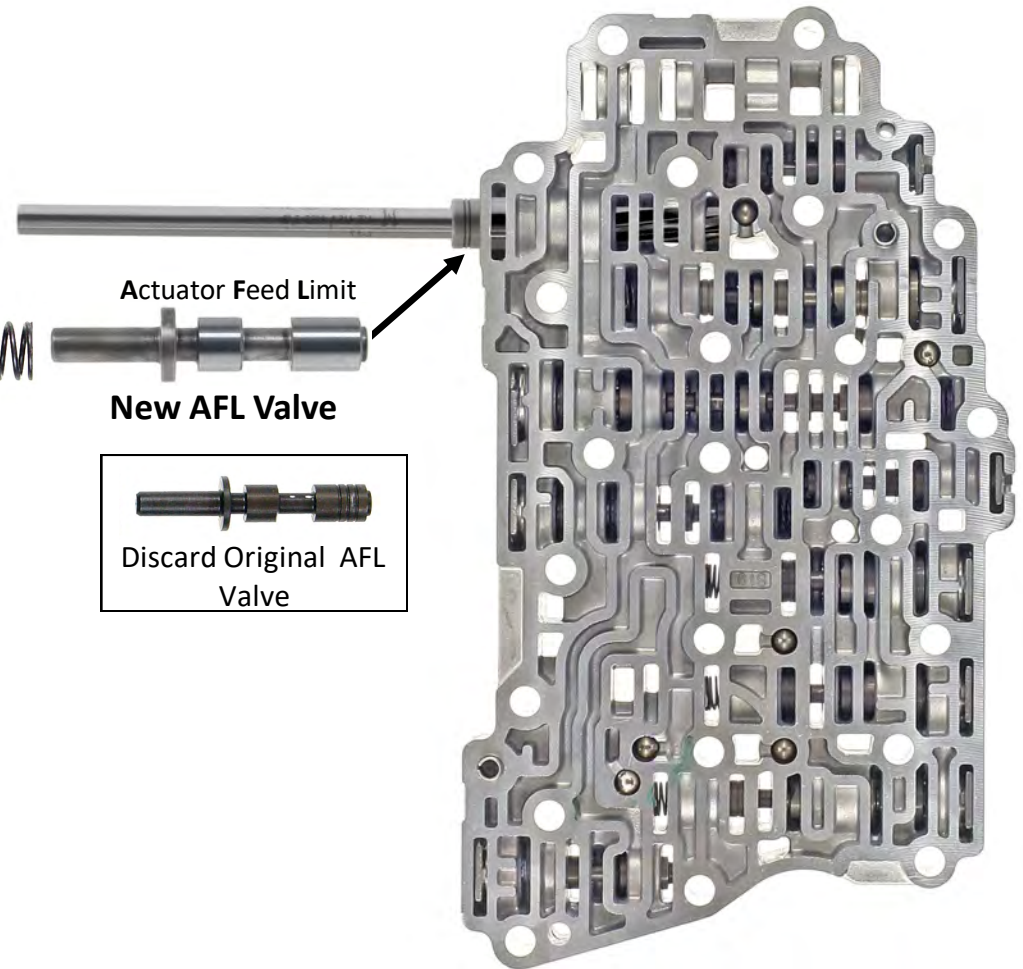
Get 5 gals of WD-40 (approx \$100 bucks) and you'll have the perfect wet tank to keep the VB bore and reamer cool while you ream aluminum valve bodies. Flushes chips out as you go.

Step 1. Disassemble AFL Valve lineup
Save the Retainer & Spring.



Step 2. The **6T40 Gen 2** uses the "**2 Groove**" reamer guide. Place the 2 groove guide into the bore till it stops, with the stepped end out as shown. Use lots of WD-40 and **low speed** on your favorite portable drill, let the reamer do the cutting until it bottoms in the bore. Don't force the reamer, bore finish & Reamer life require a **slow inward movement** and lots of WD 40.

Step 3. After reaming, clean the bore and the new AFL Valve furnished in this kit. Make sure the valve is free in the bore. Install the **New AFL Valve** and reuse original spring and retainer.



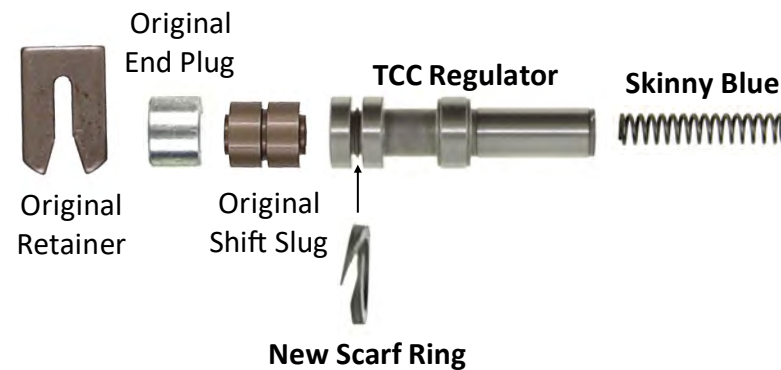
Main Body Repairs

Check Ball Locations:

Ⓒ = (6) .250 Check Balls

Step 1

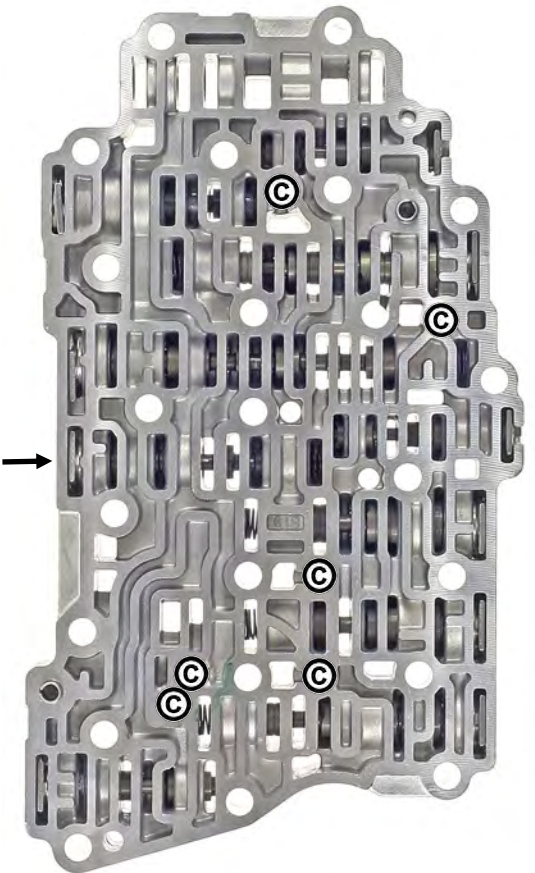
Discard original TCC Regulator Valve and spring. Clean the **New TCC Regulator Valve** provided and test fit it into the clean VB bore. If it moves freely, remove it and put a small dab of assembly gel into the groove of the new valve followed by the **NEW Scarf Cut Ring**. Now roll the small **o-ring** provided on top of the scarf cut ring and place it in the freezer for 15 minutes. This will “size” the ring into the groove. **Note:** The o-ring is only used as a sizing tool.



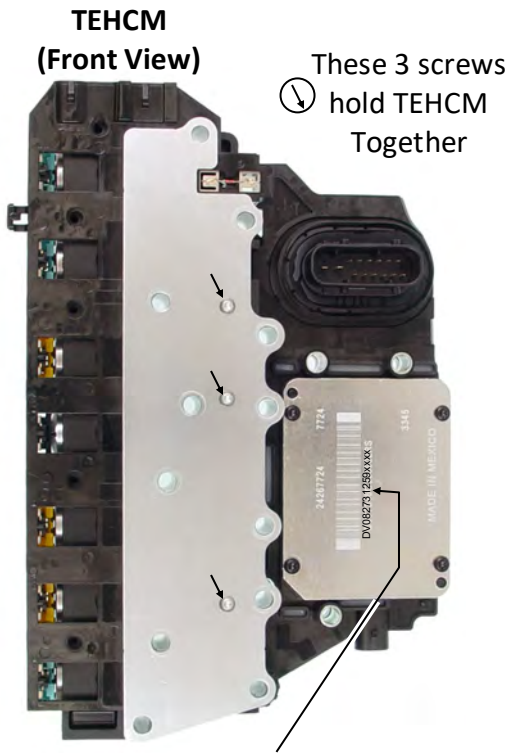
Step 2

To install, roll the o-ring **off** the valve and set it aside. Insert the **NEW Skinny Blue Spring** into the hollow end of the new valve and insert new valve and spring into the bore while it's still cold, followed by the original Shift Slug, End Plug & Retainer. It will go right in if the outer diameter of the ring is flush with the new valve. Never force the valve in.

Once you install the valve and ring– **DO NOT REMOVE IT!**



Additional Data

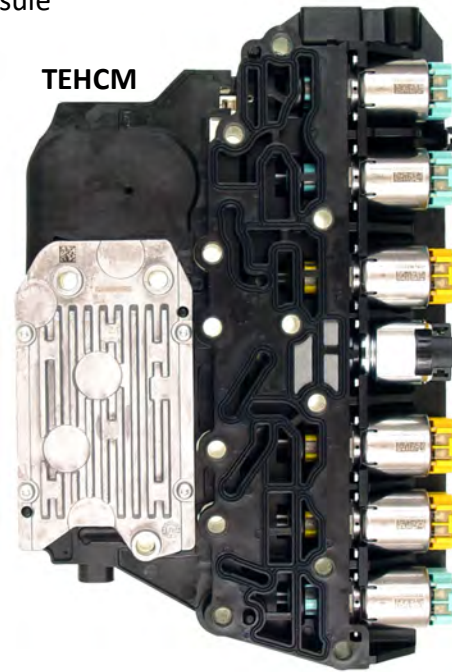


IF 8th Digit of TEHCM ID is a:
Number (1,2,3) it's a 1st Gen.
Letter (A,B,C) it's a 2nd Gen.



PCS-4,2 & TCC Normally-Low (output)
PCS-3,5 & EPC Normally-High (output)

All Solenoids = 4.0-5.0 Ohms
Except On/Off = 16-20 Ohms



Gen 2 solenoids
3 green 3 yellow 1 black



Solenoid Screen

Component Apply Chart

Gear	1234	Low/ Rev	Low One-way	35R	456	26
P/N		on				
R		on		on		
D1	on	on*	hold			
D2	on					on
D3	on			on		
D4	on				on	
D5				on	on	
D6					on	on

* On at a stop, turns off during initial acceleration.

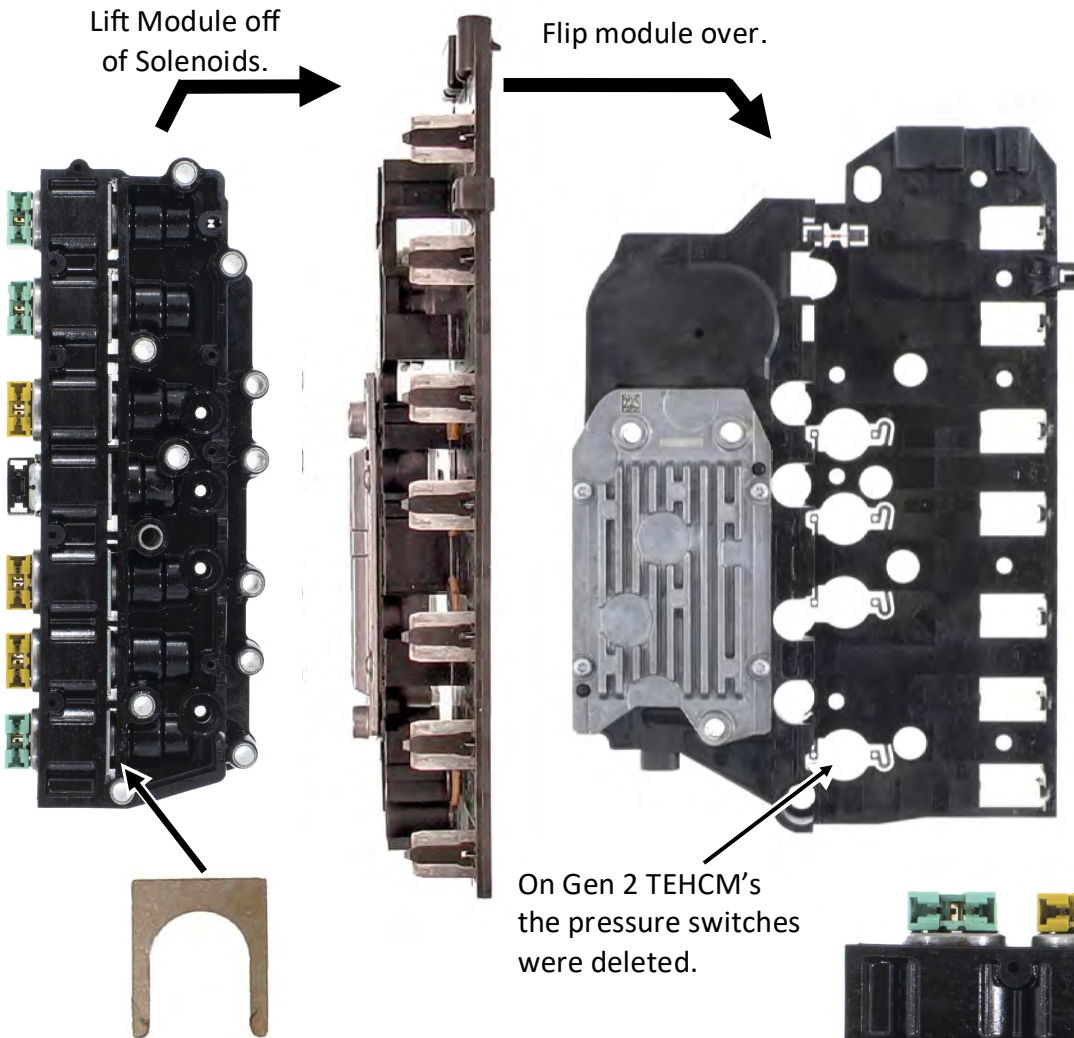


Mr. Shift

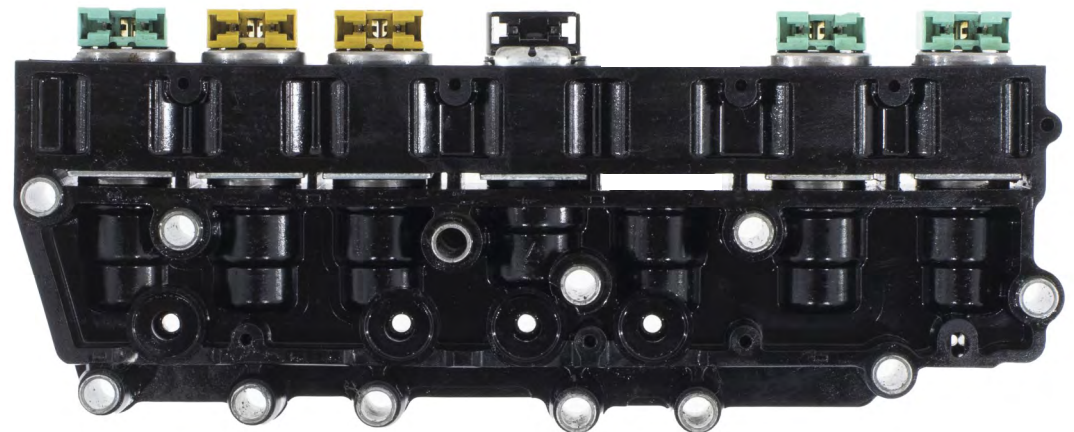
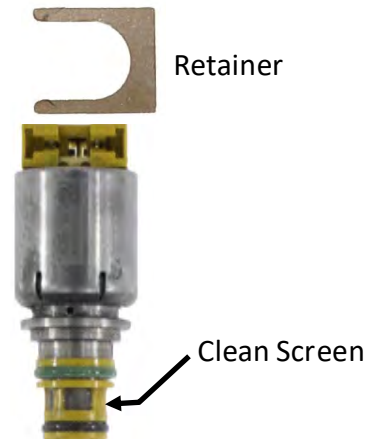
No Forward is Often a Bad PCS5
No Reverse is Often a Bad PCS2
Neutral on the 3-4 is Often a Bad PCS3

Let us hear from you!

Solenoid Cleaning

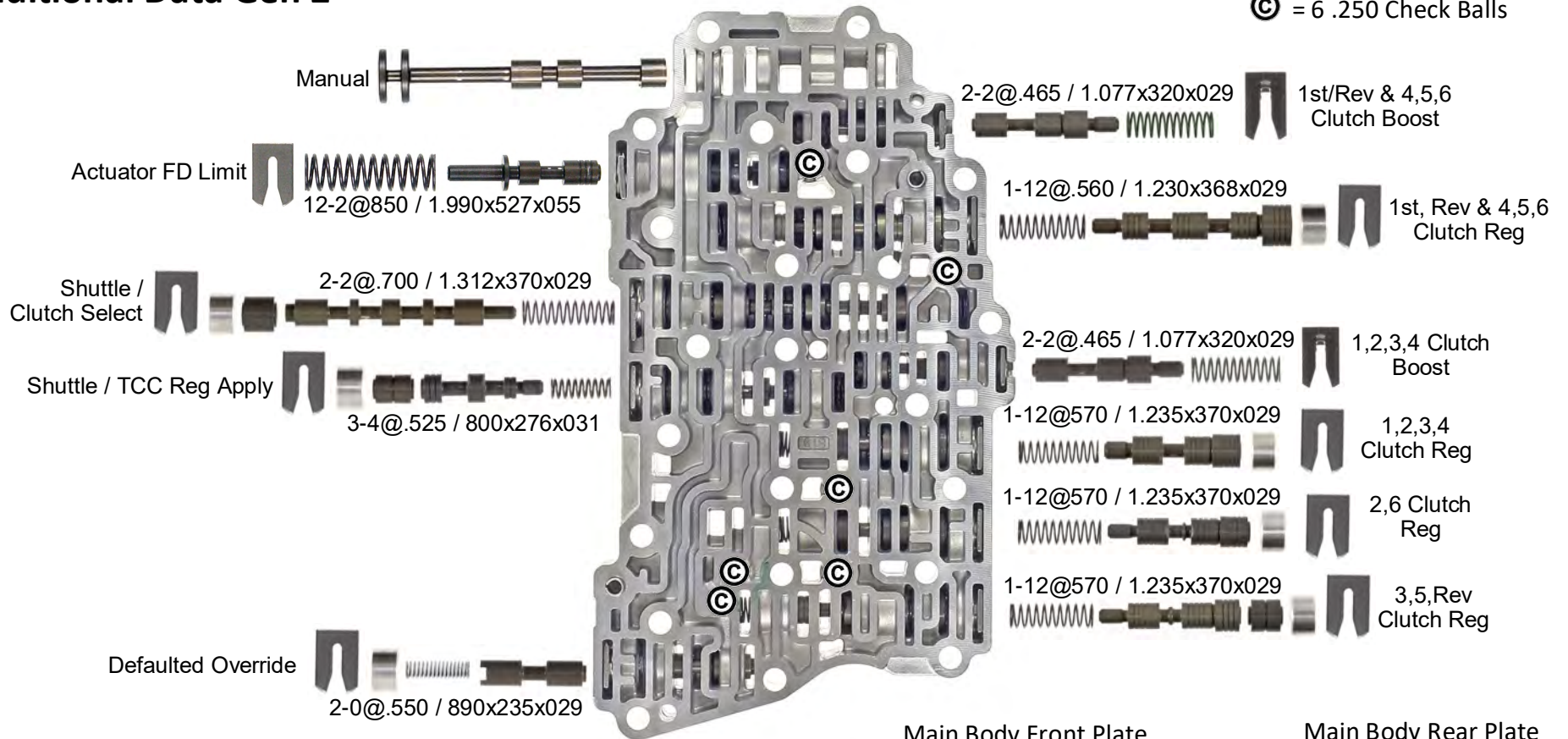


Remove 1 solenoid at a time, clean the solenoid, lube seals & re-assemble with original retainer.
Solenoids are different! Use care!



Additional Data Gen 2

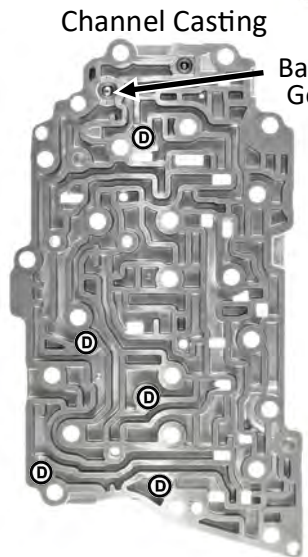
© = 6 .250 Check Balls



5 Pulse Dampeners



Spring in to casting 1st Cup side of Dampener towards spring.



Ball Capsule Gen2 Only

Main Body Front Plate



Main Body Rear Plate

