SK®6T40-G3 *Requires (2) Tool Kits (See *Notes 1 & 2)

Fits: Gen3 6T40 Series, 6T31, 6T41/6, 6T51 (Units with Chain Driven Pumps Only)

Does Not Fit: Gen1 (Converter driven pump, Has pressure switches) **Does Not Fit:** Gen2 (Converter driven pump, No pressure switches)



Corrects/Prevents/Reduces

Ratio or Solenoid Performance Codes, Erratic TCC or TCC Hunting, Overheating. Includes NEW drop-in Pressure Regulator Valve and Shuttle Valve that reaches beyond the worn area in the bore. Also includes oversized Lube Regulator and Actuator Feed Limit valves (See Notes 1 & 2 for tooling requirements)

Step 1. Remove and discard OE PR Valve, Spring, Shuttle Valve and Bushing.

Save Pin Save Pin

*Note 1: This product requires
TransGo® # AFL-G2-TK Tool kit to repair the Actuator Feed Limit system.

2 Groove 1 Groove No Groove

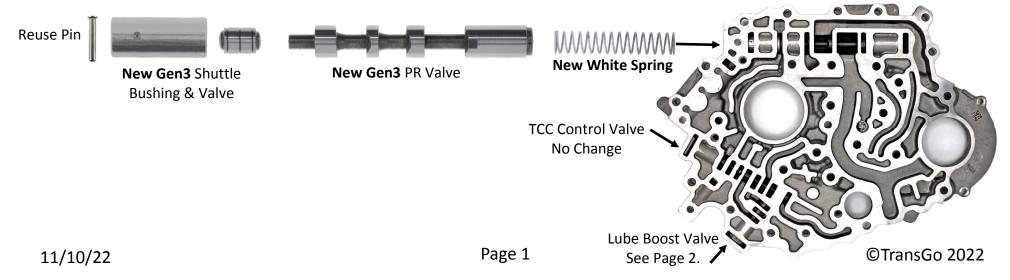
T40 Gen2&3 6F35 Gen2 6

7

*Note 2: This product requires
TransGo # 6T40G3-LB-TKC
to repair the Lube Regulator System.



Step 2. Install new Spring & PR Valve, Shuttle Valve and Bushing as shown Reuse retaining pin.



Lube Boost Valve Repair.

Excessive Lube Boost Valve Bore wear has been found in virtually every unit with 40K miles and above. A new casting lists for approx. \$450. Save the \$ and put it back in your pocket! This kit and a few minutes of your time will make it like new.

TransGo# 6T40G3-LB-TKC



Save

Step 1. Remove & Discard Original lube boost Valve & Spring saving the retainer.



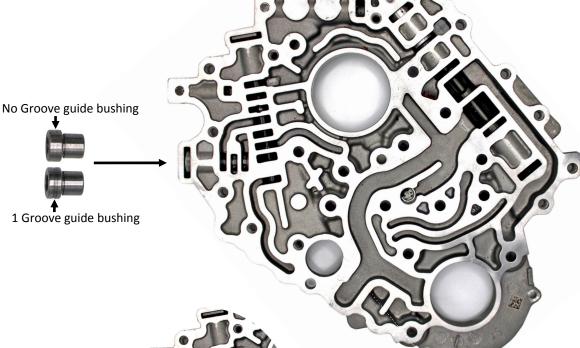


Step 2. Choosing Guide Bushing.

The small diameter of the 1 groove bushing is slightly larger than the no groove bushing. install the bushing that fits your casting the tightest without forcing it. Until the larger diameter stops against casting.



Step 3. Slide Reamer thru bushing until then non cutting pilot is started in the casting bore before its spins. Use lots of WD-40 and **low speed** on your favorite portable drill and 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.



Channel Casting

New White Spring & Lube boost Valve





Step 4. Remove reamer and guide, blow out chips and clean the bore. Test fit the new oversize valve. Check for free movement without binding. If ok, lube new valve with ATF and install it, use new **White** spring and re-use original retainer as shown.

Main Body Repairs

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

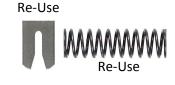


Tool Kit fits 3 *different* transmissions, just use the correct reamer guide. Fits All **Gen 2 Vb's** 6F35's, 6T40's & 6T70's.

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.

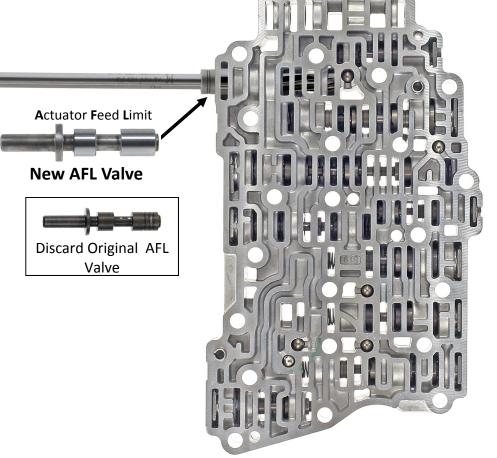
Step 1. Disassemble AFL Valve lineup Save the Retainer & Spring.



Step 2. The **6T40 Gen 3** uses the **"2 Groove"** reamer guide. (Note: Some Gen 3's may require the "1 Groove" guide. It's ok. Just use the one that fits the bore.)

Place the 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.

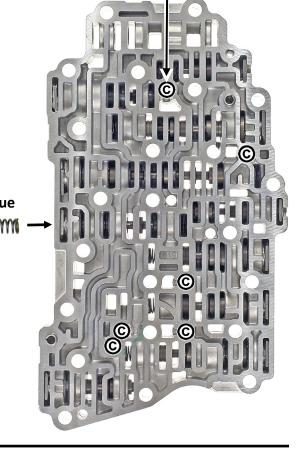
Step 3. After reaming, clean the bore and the new AFL Valve furnished in this kit. Make sure the valve is free in the bore. Install the **New AFL Valve** and reuse original spring and retainer.



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.

This number 6 ball is model dependent. See note on bottom of page.

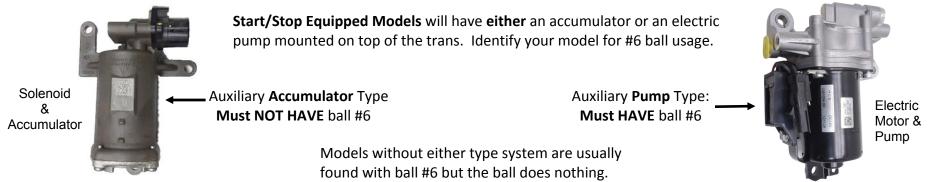


Original **End Plug TCC Regulator Skinny Blue** Original Original Shift Slug Retainer **New Scarf Ring**

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

TEHCM (Front View) These 3 screws • hold TEHCM Together

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.

VB With TEHCM Removed (Front View) Quick VB ID

Check ball capsule

Gen 2&3.

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

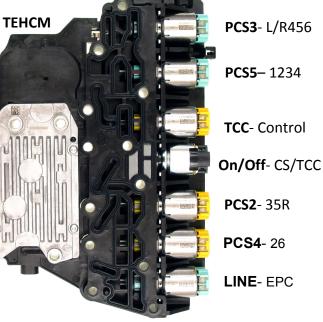
> All Solenoids = 4.0-5.0 Ohms Except On/Off = 16-20 Ohms



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!

Gen 2 solenoids 3 green 3 yellow 1 black



Component Apply Chart

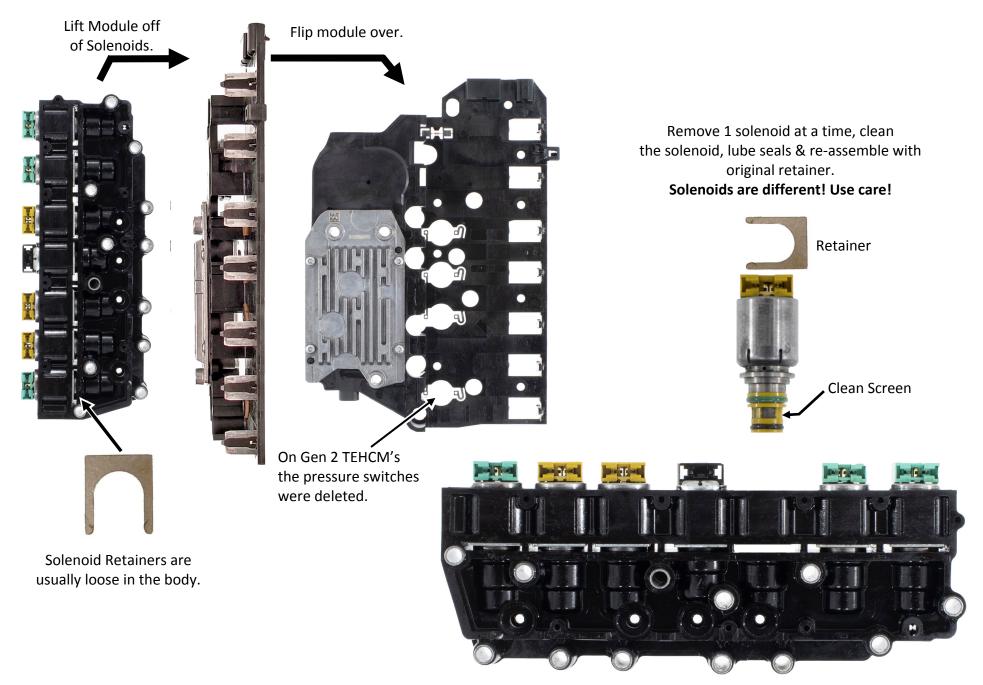
Gear	1234	Low/ Rev	Low One-way	35R	456	26
P/N		on				
R		on		on		
D1	on	on*	hold			
D2	on					on
D3	on			on		
D4	on				on	
D5				on	on	
D6					on	on

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

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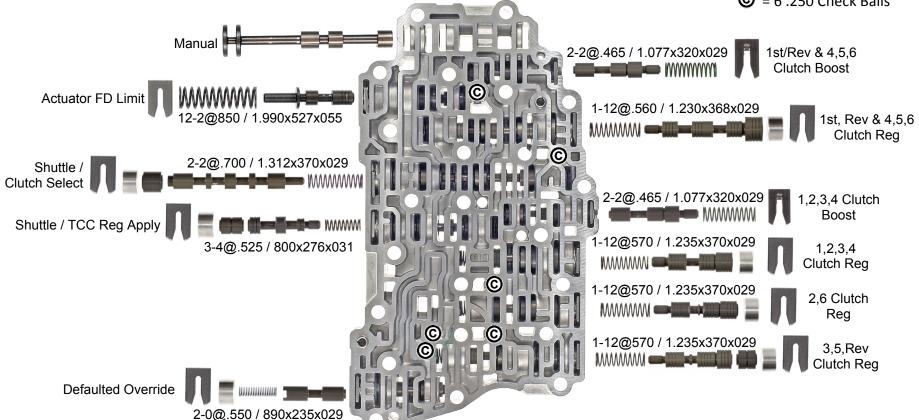
Solenoid Screen

Solenoid Cleaning



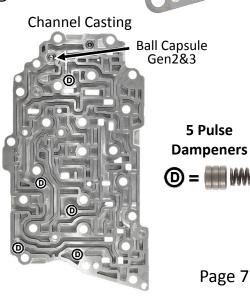
Additional Data Gen 2&3

= 6.250 Check Balls



Even a little wiggle has a significant effect on solenoid pressure to the controlling clutch regulator valves. Flair shifts, harsh shifts or erratic shifts are a result of poor clutch control. A worn dampener must be corrected to provide a smooth solenoid signal to the clutch regulator it serves. The smoother the solenoid signal, the more consistent and cleaner the shifts will be.

TransGo Pulse Dampener Repair Kit #6T-PDP-TK # 6T40-PDP-OS



Main Body Front Plate



Main Body Rear Plate



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