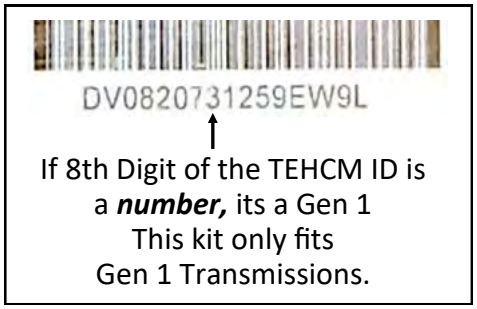
SK®6T40-A

Fits: 2007up 6T30, 6T40, 6T45 **Generation 1 Only**

Corrects/Prevents/Reduces

Ratio or Solenoid Performance Codes, Fixes wore out Actuator Feed Limit bore with No Special Tools Required! Includes NEW Pressure Regulator Valve for pump stability.

Also Includes Pressure Switch Repair Parts!
Save's a TEHCM with Pressure Switch Codes!



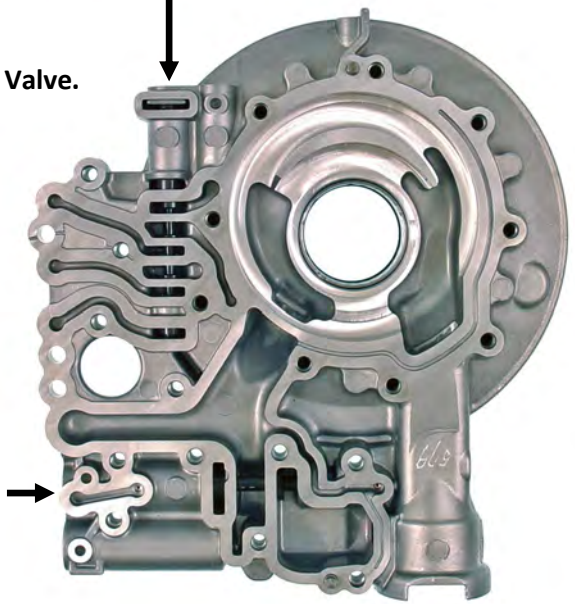
LOOK HERE


TCC Control (No Changes)

Step 1 **Skip this step if pump has aftermarket oversized PR Valve.**

Check TEHCM ID First! If TEHCM is Gen 1 **AND** inner land on **original** PR valve measures .354" then discard **original** Pressure Regulator Valve and Spring. Install **NEW TransGo®** Pressure Regulator Valve and **White** PR Spring, re-use original Spacer and retaining pin.

This Kit does not fit Gen 2 (PR Valve measures .341)
This Kit does not fit Gen 3 (Uses a chain driven pump.)



Original Gen 1 PR Valve

Pump Body Repairs

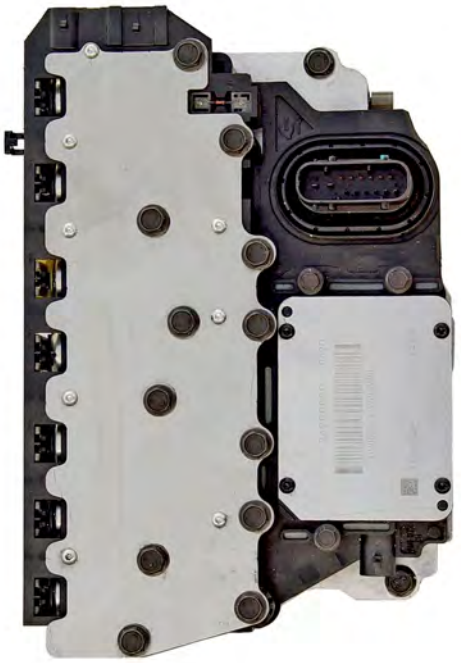
Recessed bevel on inner drive gear faces the converter!

Beveled Edge on outer gear teeth faces converter!

Working on a Gen 2? Order: **SK® 6T40-G2**

TEHCM Removal

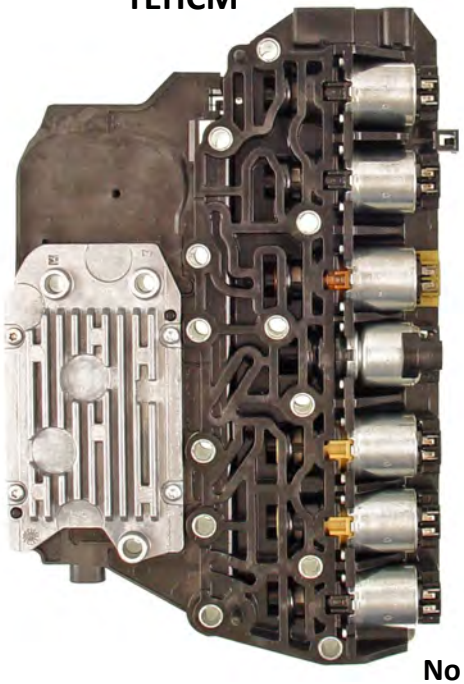
TEHCM & Valve Body Assy. (Front View)



All Solenoids = 4.0-5.0 Ohms
Except On/Off = 16-20 Ohms N.C.
PCS-4,5 & TCC Normally Low (output)
PCS-2,3 & EPC Normally High (output)

TEHCM Removed (Front View)

TEHCM



PCS3- L/R456

PCS2- 35R

TCC- Control

On/Off- CS/TCC

PCS5– 1234

PCS4- 26

LINE- EPC

Solenoid Screen

No Forward but Rev ok?
PCS5 could be at fault.
Swap one from another Body.

Component Apply Chart

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

Main Body Repairs

This product only fits **FACTORY size** valves with a .354" diameter!
Skip Step 1 if the valve is larger than .354" or if it is installed into a aluminum sleeve.

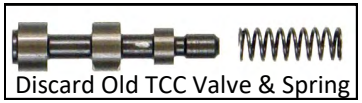
Discard Old AFL Parts

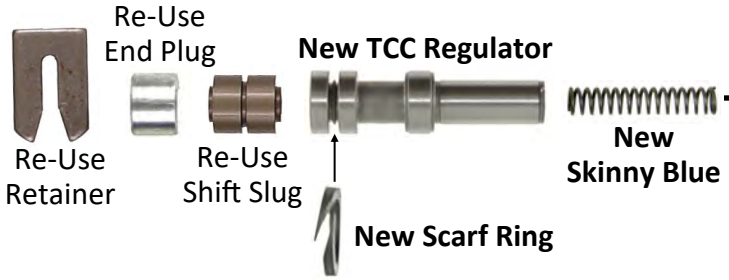
Step 1

Measure small land of actuator feed limit valve. If small land measures .354, then discard original Actuator Feed Limit parts and install **NEW** Bushing, Valve, Orange Spring, Spacer and Retainer provided. If small land is **larger** than .354, Skip this step.

Step 2

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.


Discard Old TCC Valve & Spring

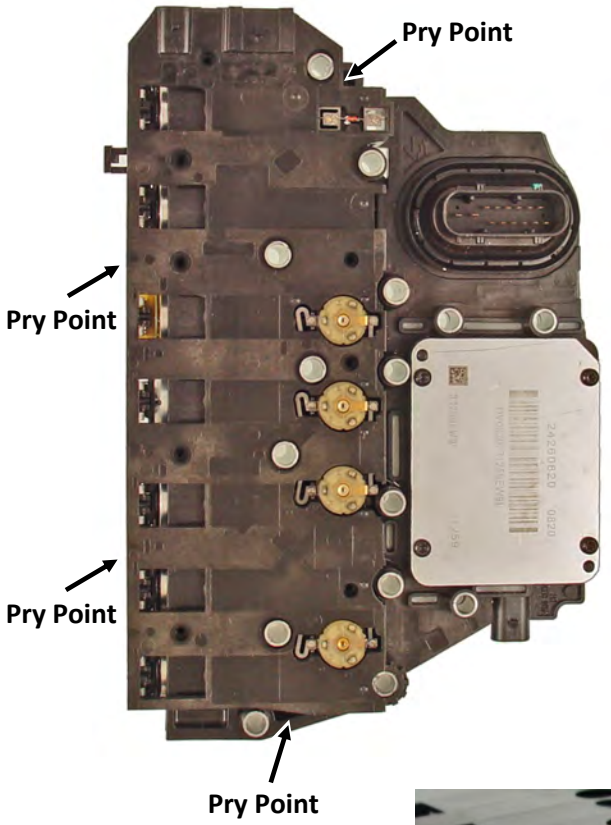


Step 3

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!**

Ⓒ = 6 .250 Check Balls

TEHCM Disassembly



Step 1

With TEHCM removed from VB, remove the 8 circled T10 Torx screws and remove the cover plate.

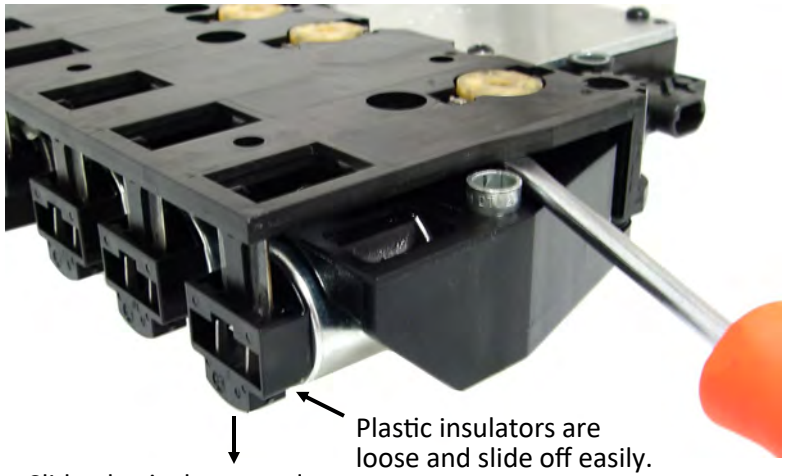
The screws keep the halves from separating when the VB bolts are removed.

Step 2

Gently pry upper Module half off of solenoids at the pry points shown. **Be gentle!**

The module half has male spades that insert into the ends of each solenoid.

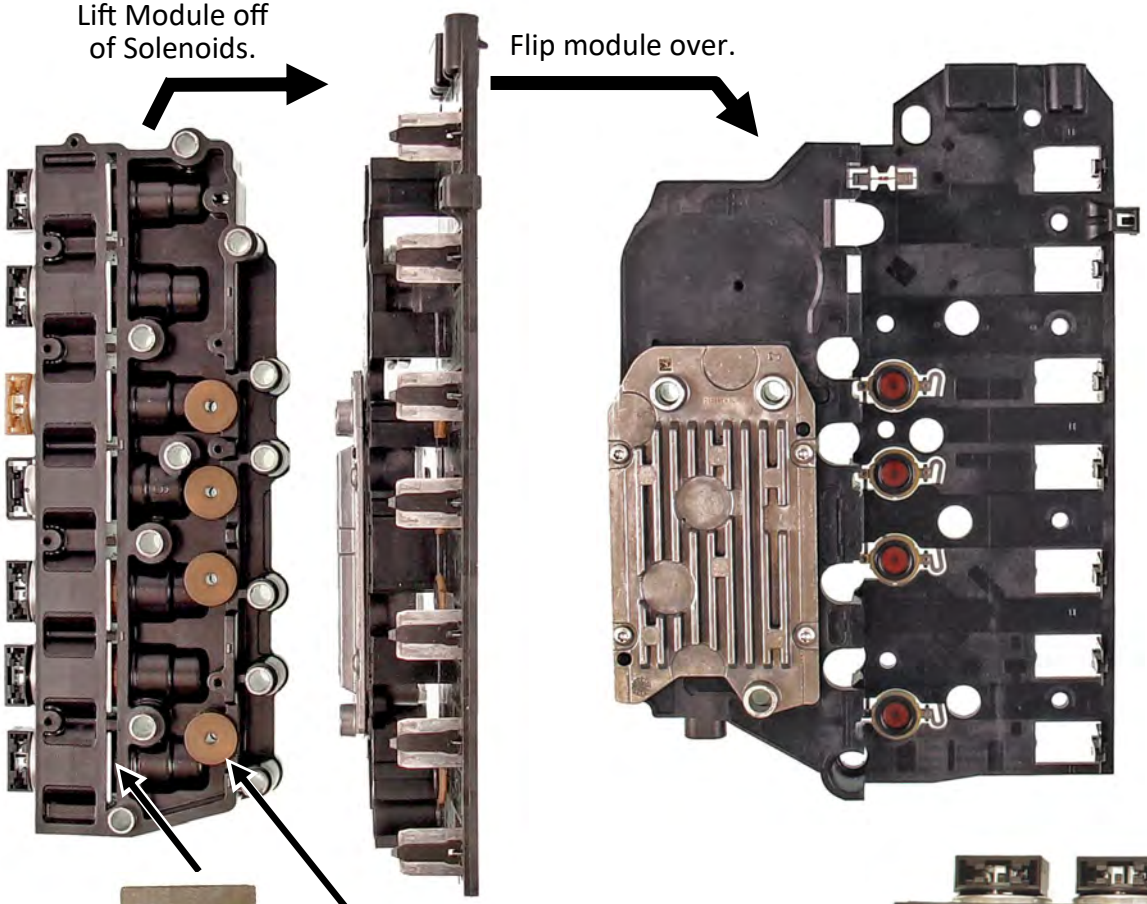
A little wiggling and gentle prying with a small screwdriver will separate the halves.



Solenoid Cleaning

Lift Module off of Solenoids.

Flip module over.

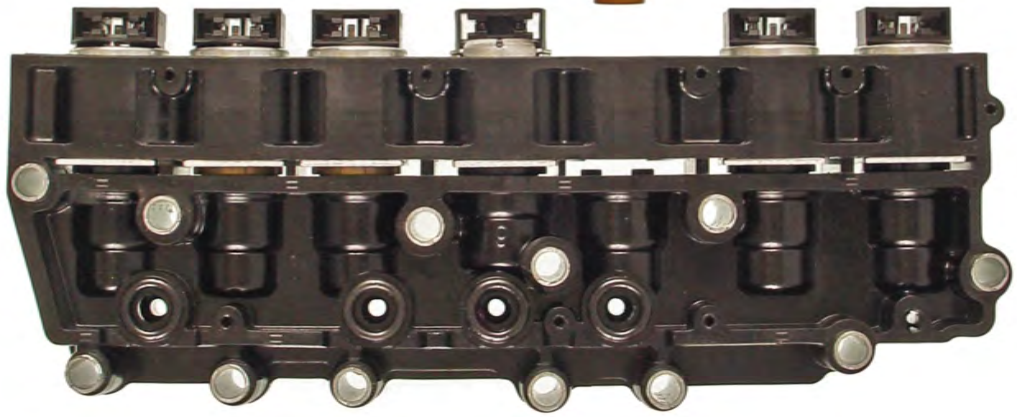


Remove 1 solenoid at a time, clean the solenoid, lube seals & re-assemble with original retainer.

Solenoids are different! Use care!

Retainer

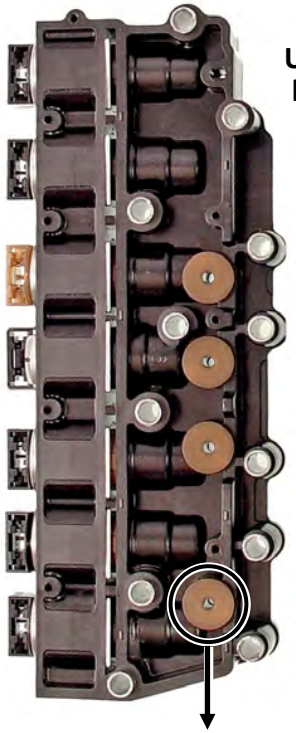
Clean Screen



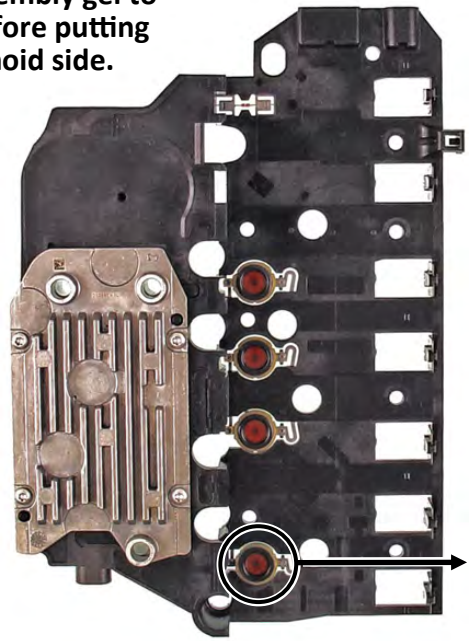
Solenoid retainers & Pressure switch seats just fall out. Don't loose them.

On some models, the pressure switch seats may be molded into the TEHCM body and are not removable.

Pressure Switch Repairs



Use a small amount of assembly gel to hold the parts in place before putting module side onto solenoid side.

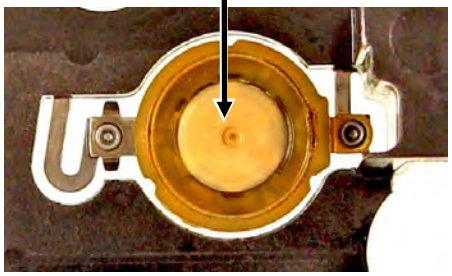


Note: When assembling halves, leave solenoid side on bench and flip module side onto the solenoid side. Line up solenoid connectors and press the halves together. **Do not use the T10 cover screws to "pull" the halves together!**

If your TEHCM has removable seats, remove them to replace the large O-ring seal under it.

Corner of Razor blade works best to remove old diaphragms.

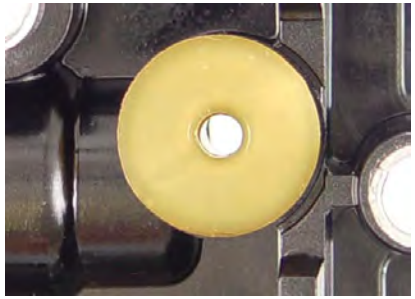
Diaphragm goes first then **small** Seal. Do not attempt to remove the center disk of switch!



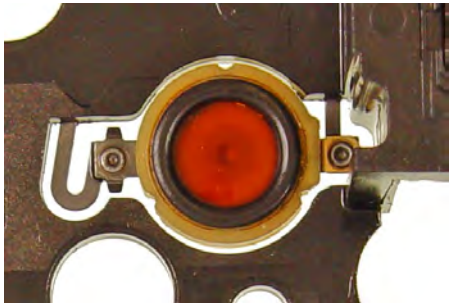
Replace **large** O-ring with new. (4 provided in kit)

Replace **small** seals and diaphragms with new. (4 each provided in kit)

Re-Use Seat



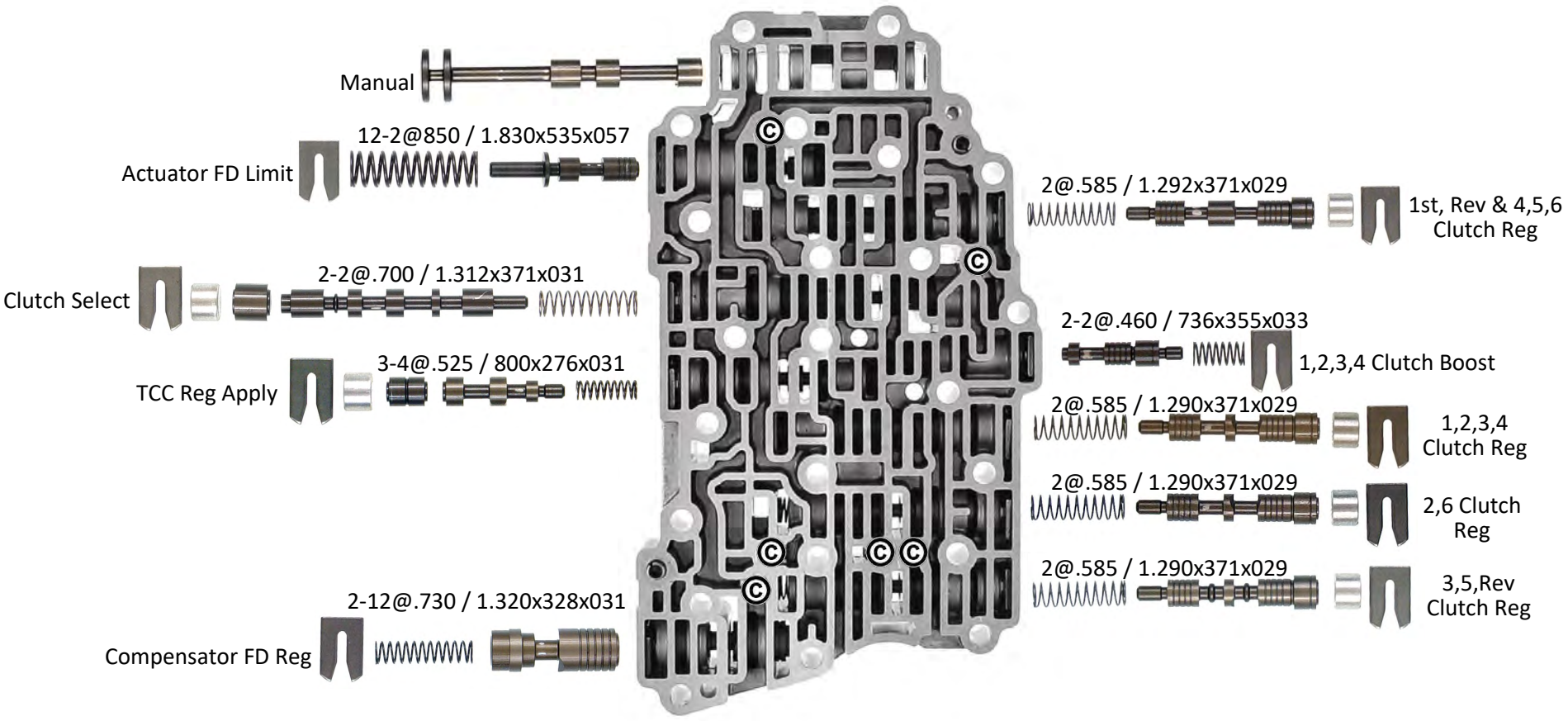
Finished Switch Seat



Finished Switch

Additional Data Gen 1

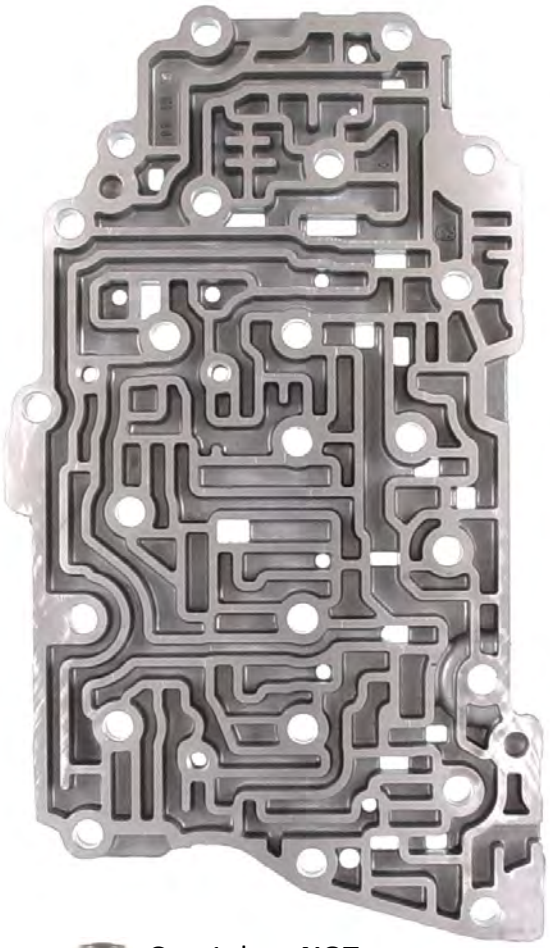
© = 6 .250 Check Balls



Additional Data Gen 1

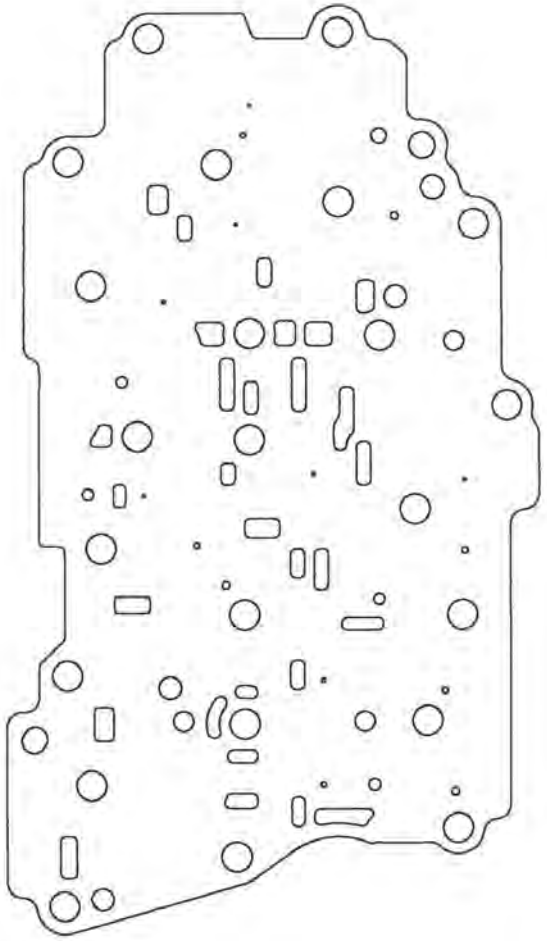
Gaskets are bonded to the plates from the factory.
In a pinch, re-use is ok if they are NOT damaged.
New plates are cheap insurance against cross-leaks!

Channel Casting

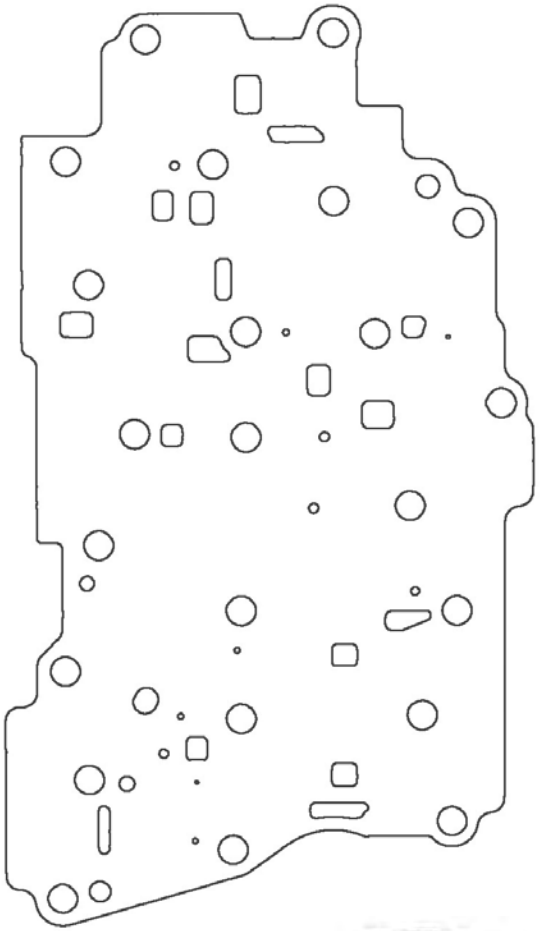


Gen 1 does **NOT** use dampeners in channel plate. Gen 2 does.

Main Body Front Plate



Main Body Rear Plate



Fixing the cause of the complaints is our goal.
Making products to help you be more successful is the result of listening.
Let us hear from you!

Mr. Shift