





A6LF1 Introduction

Presented by: Mike Souza ATRA Senior Research

REBU

Technician

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SEAL AFTERMARKET

GEARS



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Any Questions That You May Have During The Webinar Please Feel Free To Text Them In At Any Time

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Vehicle Application

Hvundai 2009-14 Avante/HD/MD FWD L4 1.6L/1.8L (A6GF1) 2010-14 Avante/MD F/AWD L4 2.0L (A6MF1) 2011-13 Azera FWD V6 3.3L (A6LF1) V6 3.8L (A6FL2) 2014 B-Suv FWD L4 1.6L /2.0L (A6GF1) 2012-14 Elantra FWD L4 1.6L/1.8L (A6GF1) F/AWD L4 2.0L (A6MF1) 2009-14 Grandeur FWD L4 2.4L V6 2.7L (A6MF1/2) V6 3.0L/3.3L/3.5L/3.8L (A6LF1/2/3) 2011-14 i30 FWD L4 1.2L/1.6L/1.8L/2.0L (A6GF1) (A6MF1) 2012-14 i40 FWD L4 1.7L/2.0L (A6MF1) 2010-14 ix35 FWD L4 2.0L/2.4L (A6MF1) (A6LF1/2) 2013-14 Maxcruz FWD L4 2.2L V6 3.0L/3.3L (A6LF1/2/3) 2014 Mistra FWD L4 1.8L (A6GF1) L4 2.0L (A6MF1) 2009-14 Santa Fe F/4X4 L4 2.0L V6 3.3L/3.5L (A6LF2/3) L4 2.4L/2.7L (A6MF1/2) 2009-14 Sonata FWD L4 2.0LV6 3.5L (A6LF2) F/AWD L4 2.0l/2.4L (A6MF1/2) 2009-14 Tucson ix F/4X4 L4 2.0L (A6FL1/2) L4 2.0L/2.4L (A6MF1) 2012-14 Veloster FWD L4 1.6L (A6GF1) 2011-14 Veracruz F/4X4 V6 3.0L (A6FL3) 2011-13 Verna FWD L4 1.6L (A6MF1) Kia 2011-14 Carens FWD L4 1.7L/2.0L (A6MF1/2) L4 1.6L (A6GF1) ASSOCIATION 2012-14 Cee'D/Pro FWD L4 1.2L/1.6L (A6GF1) (A6MF1) 2012-14 Cerato FWD L4 1.6L (A6GF1) L4 1.8L/2.0L (A6MF1) 2011-13 Forte FWD L4 1.6L (A6GF1) L4 1.8L/2.0L/2.4L (A6MF1/2) 2009-14 Grand Carnival FWD L4 2.2L V6 3.5L (A6LF1/2/3) 2010-12 K3/K5/K7 FWD L4 2.0L/2.4L V6 2.7L (A6MF1/2) 2010 Lotze FWD L4 2.0L/2.4L (A6MF1/2) V6 3.5L (A6LF2) 2009-11 Opirus (Amanti) FWD V6 2.7L (A6MF2) V6 3.3L/3.8L (A6LF1/2) 2010-14 Optima F/AWD L4 2.0L/2.4L (A6LF1/2) (A6MF1/2) (A6GF1) 2014 Pride FWD L4 1.6L (A6GF1) 2009-14 Sorento F/4X4 L4 2.0L/2.2L V6 3.3L/3.5L (A6LF1/2/3) L4 2.4L V6 2.7L (A6MF2) 2011-14 Soul FWD L4 1.6L/2.0L (A6MF1) or (A6GF1) 2010-14 Sportage F/4X4 L4 2.0L/2.4L (A6MF1) (A6GF1) L4 2.0L (A6LF1/2)



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Gear Box Comparisons

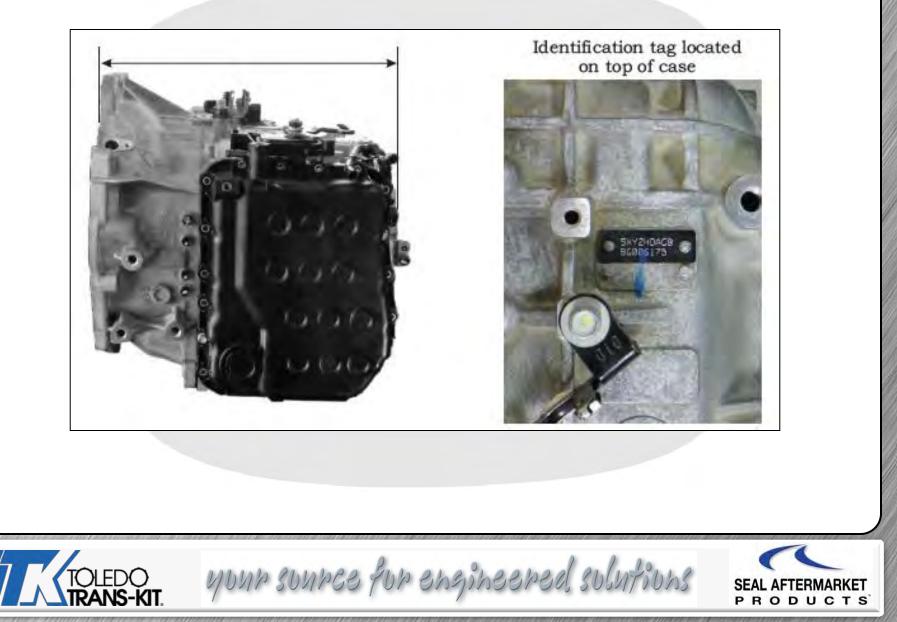
A6LF1/	2/3		A6MF1/2		
	2/3 beed: 2200 =/		Stall Speed: 2400 =	-/- 100 RPM	
	3.5/3.8/4.			2.7L	2.0L
Gear R	atio: Wide	Close	Gear Ratio:	Wide	Close
1st:	4.651	4.252	1st:	4.639	4.162
2nd:	2.831	2.654	2nd:	2.826	2.575
3rd:	1.842	1.804	3rd:	1.841	1.772
4th:	1.386	1.386	4th:	1.386	1.369
5th:	1.000	1.000	5th:	1.000	1.000
6th:	0.772	0.772	6th:	0.772	0.778
R:	3.393	3.393	R:	3.385	3.500
	nce Pistons	ALITOMATIC	2 Balance Pistons	NOIS	
Engine			Engine Size:		
	A6LF1	3.3L	A6MF1		2.0L / 2.4L
	A6LF2	3.5L / 3.8L	A6MF2		2.4L / 2.7L
	A6LF3	4.0L			
Lenath		89 / 402 (front to rear)	Length (mm) 376.4	/ 386.4 (fro	nt to rear)
•	: (kg.m) 33.5		Torque: (kg.m) 23.	•	,
	· (,,,,		
The same in a sea			te month i des solands des insert des la densis des des dels tra		
		111110 21101020	he are charage	endin Long	
	TRANS-KIT	1041 SOUNGO Y	อก อกๆเกออกอยุ	3054/707	SEAL AFTERMARKE



SEAL AFTERMARKET PRODUCTS



Identification Tag Location

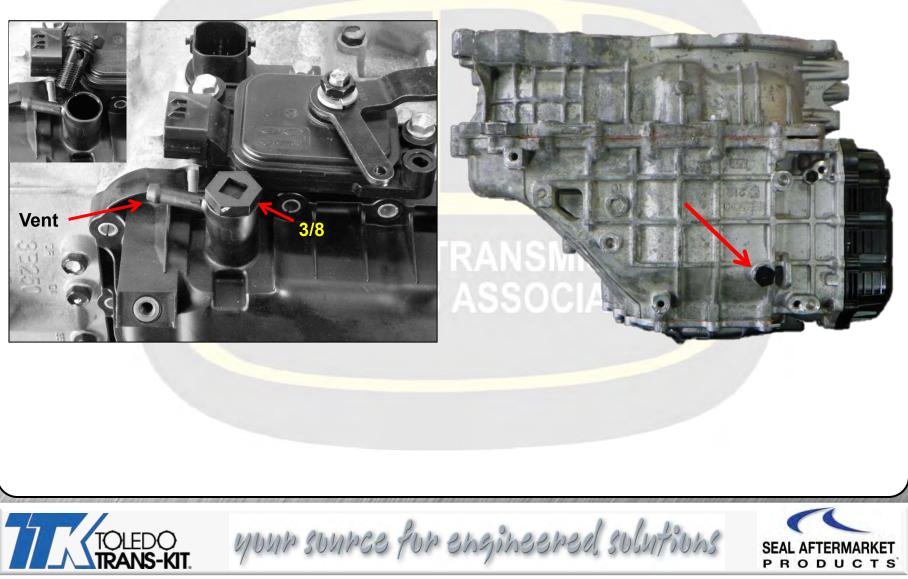




Fill Plug

Fluid Drain & Fill

Drain Plug





Fluid Level Check

Confirm that the transmission fluid temperature is 50-60 C (122-140 F) with a capable scan tool.





Closed

Oper

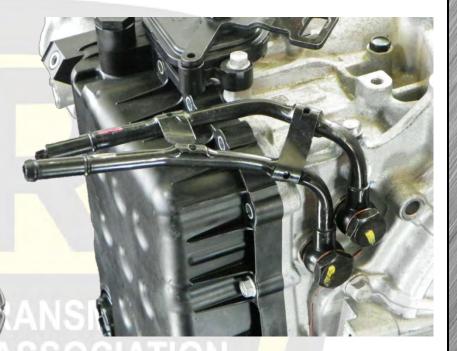
emovec



Fluid Contamination & Cooler Hoses Burst

Known problems of Radiator contaminating transmission and Rubber cooler lines bursting

Side Cover Leaks



Later models with rubber molded valve body cover gasket. Problems leaking due to warping. Flat sand cover before re-using rubber molded gasket. Apply silicone.



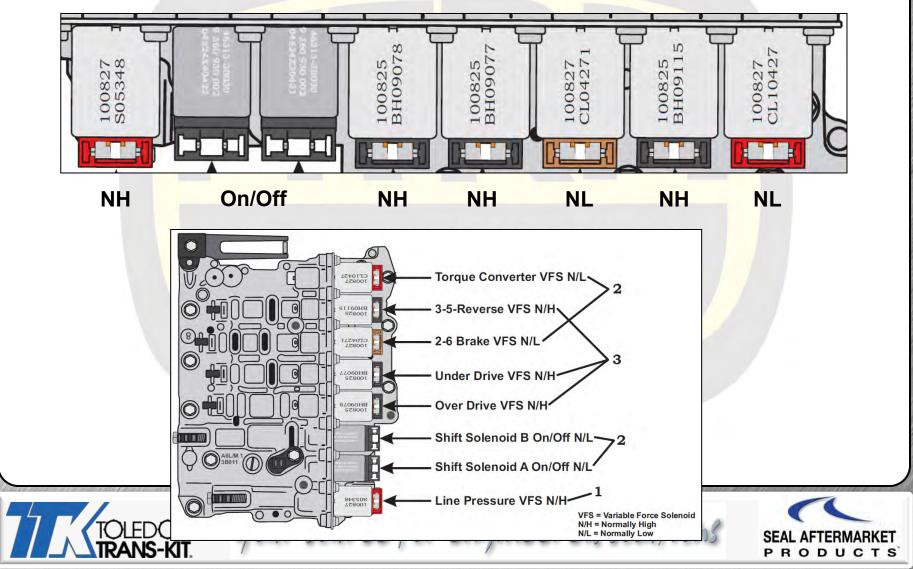


Component Identification & Apply Chart

2-6 Brake 3-5 Clutch Reverse Underdrive		Clu	tch		Brake		<u>0.W.</u>
Clutch Clutch Brake Clutch Low Reverse Brake Clutch	Gear	35R	O/D	2-6	U/D	L/R	Low
Torque Converter	P/N					х	
Overdrive Clutch	R	Х				Х	
	D1				x	0	х
	D2			x	x		
	D3	х			x		
	D4		х		х		
	D5	х	x				
One Way Clutch	D6	7	x	X			
(Sprag)	O = Speed	ds below 5	km/h (3 m	ph)			
TOLEDO TRANS-KIT. MUNP SUNPCE 9	or en	gibee	red s	บให้รับ		SEAL AFTE	



There are 8 solenoids used in the A6LF1 transmission. 2 normally low variable force solenoids, 4 normally high variable force solenoids and 2 on/off normally low type solenoids.





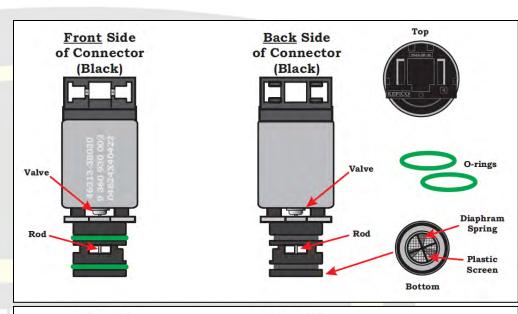
Solenoid Apply Chart

Solenoid Gear	<u>SS A</u> On/Off	<u>SS B</u> On/Off	UD VFS N/H	OD VFS N/H	<u>35R VFS</u> N/H	<u>2-6 VFS</u> <u>Brake</u> N/L	Lockup N/L	<u>Line</u> <u>Pressure</u> N/H
N / P	х		х		x			Varying
1	0			0	х			Varying
2				x	х	x	x	Varying
3		х		х			х	Varying
4					x		x	Varying
5		х	x				x	Varying
6			x		х	х	x	Varying
L	x				х			Varying
R	x	х	x					Varying
O = Vehicle			Lateral Control Contro	Torqu 3-5-R 2-6 Bi Unde Over Shift	White N/H =	N/L 2 3 N/L 2		
oledo Rans-kit	2		O-C		Solenoid A On/Off Pressure VFS N/H-	N/L VFS = Variable Force Sol N/H = Normally High N/L = Normally Low	enoid SMPD	Uhs





Shift Solenoid A (SSA) and Shift Solenoid B (SSB) <u>On/Off Solenoids</u> are <u>Normally Low</u> (N/L) type solenoids.



Solenoid

When the solenoid is turned off the pressure in the circuit is low. When the solenoid is energized (source voltage) the pressure in the circuit is high (71.12 psi.). The solenoid resistance is approximately 10-11 ohms.

Off On **Front Side** of Connector (Black) 12 Volts Valve Valve Valve Valve Exhaust X Bottom Diaphram Rod Spring Feed



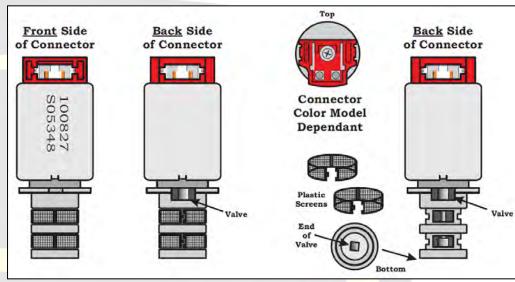
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Solenoid

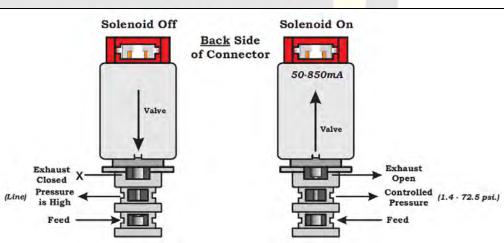




Line Pressure (LP) Variable Force Solenoid (VFS) is a <u>Normally High</u> (N/H) type solenoid. When the solenoid is turned off the pressure in the circuit is high.



When the solenoid is energized (50 - 850 mA) the pressure in the circuit is varied (1.42 - 72.54 psi.). The solenoid resistance is approximately 5.1 ohms.



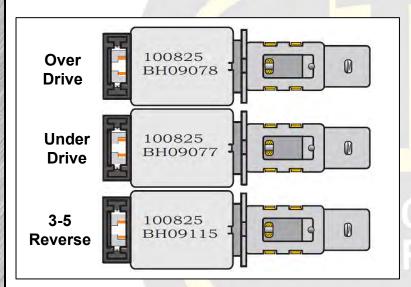
Note: Variable Force Solenoid Connector Colors are model dependent.



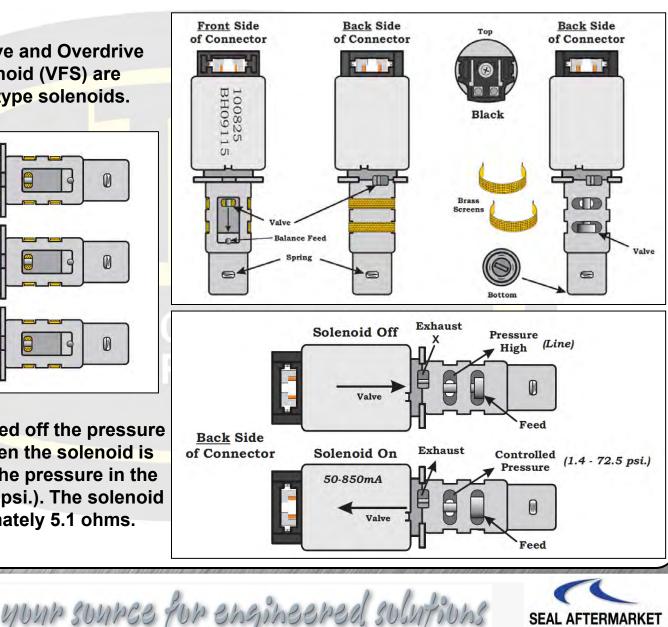
SEAL AFTERMARKET



3-5-Reverse, Underdrive and Overdrive Variable Force Solenoid (VFS) are <u>Normally High</u> (N/H) type solenoids.



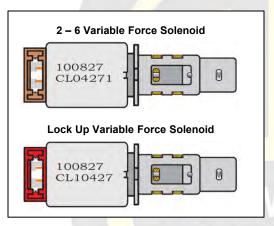
When the solenoid is turned off the pressure in the circuit is high. When the solenoid is energized (50 - 850 mA) the pressure in the circuit is low (1.42 - 72.54 psi.). The solenoid resistance is approximately 5.1 ohms.



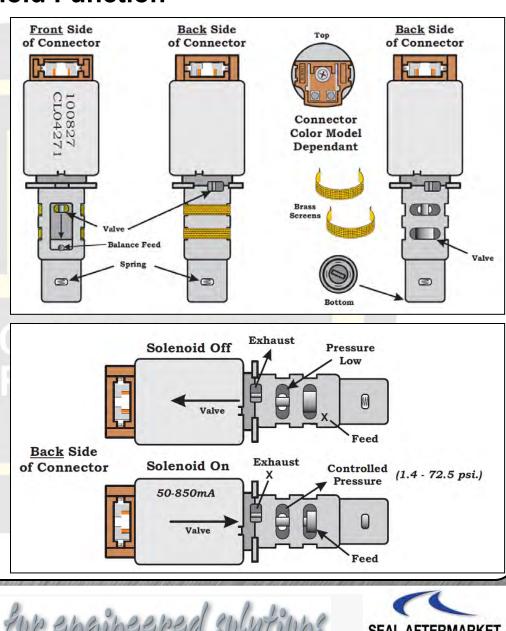
PRODUCTS



Torque Converter and 2-6 Brake Variable Force Solenoid (VFS) are <u>Normally Low</u> (N/L) type solenoids.



When the solenoid is turned off the pressure in the circuit is low. When the solenoid is energized (50 - 850 mA) the pressure in the circuit is high (1.42 - 72.54 psi.). The solenoid resistance is approximately 5.1 ohms.



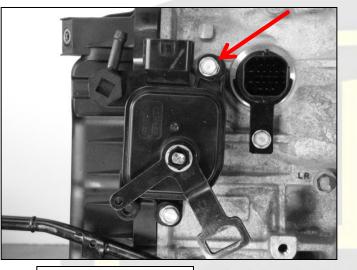
PRODUCTS



Pin ID

Inhibitor Switch

Adjustment Bolts

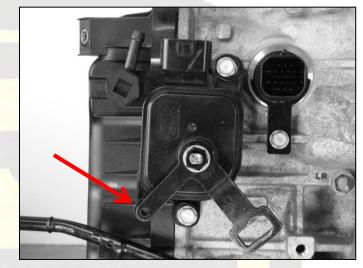


IG1

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Neutral Alignment



TCM Data (may not be provided by scan tool)

		52	53	54 5				Р	P-R	R	R-N	Ν	N-D	D	D-X	Х	X-Y	Y	Y-Z	Ζ
Ma 14 a a a	IG SW	POS	S1	S2	S3	S4	S1	1	0	0	0	1	1	1	1	1	1	0	0	0
Voltage Check	On	Ρ	12V	0V	12V	12V	S2	0	0	0	1	1	0	0	1	1	0	0	1	1
	On	R	0V	0V	0V	12V	S3	1	1	0	0	0	0	0	0	1	1	1	1	1
	On	N	12V	12V	0V	12V				4	4	4	4		0					
	On	D	12V	0V	0V	0V	S4							0	U	0	0	U	0	

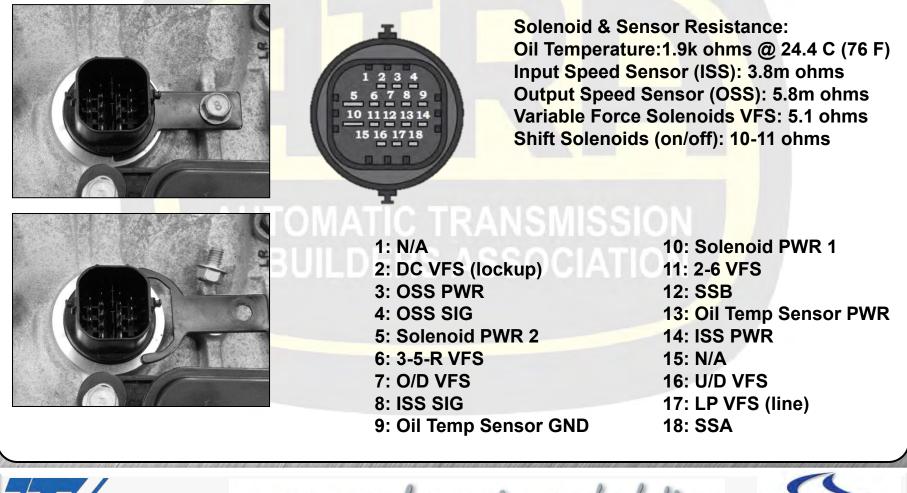
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Internal Harness Removal & Connector ID

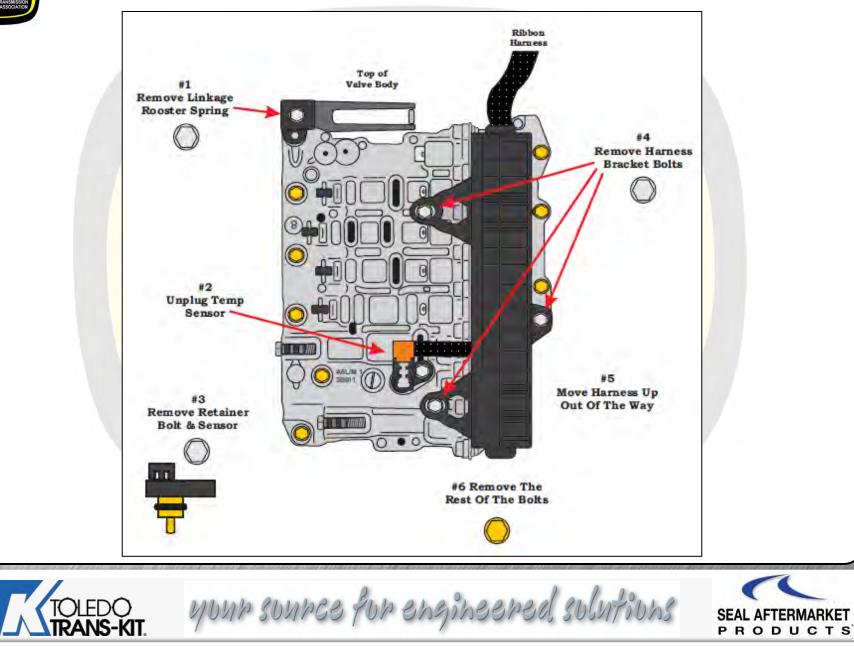
The retainer for the Internal Harness Connector must be removed prior to removing the harness. Once the retainer is remove from the connector the harness can be pushed down into the transmission and remove from the inside.



PRODUCTS

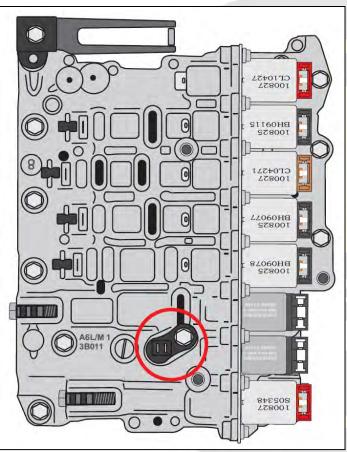


Valve Body Removal

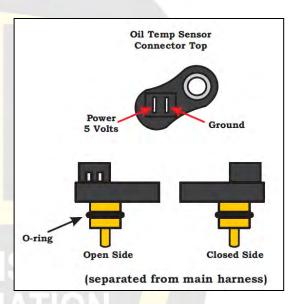




Fluid Temperature Sensor



Temp C (F)	Resistance (k ohms)					
-40 C (-40 F)	48.1k ohms					
-20 C (-4.0 F)	15.6k ohms					
0 C (32 F)	5.88k ohms					
20 C (68.1 F)	2.51k ohms					
40 C (104 F)	1.11k ohms 0.61k ohms					
60 C (140 F)						
80 C (176 F)	0.32k ohms					
100 C (212 F)	0.18k ohms					
120 C (248 F)	0.10k ohms					
140 C (284 F)	0.06k ohms					
150 C (302 F)	0.05k ohms					

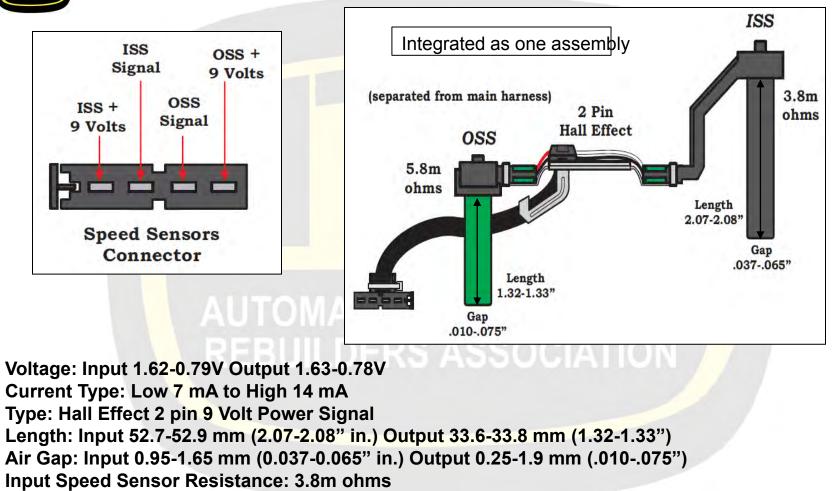


Voltage: Max. 3.26V @ - 40 C (104 F) Voltage: Min. 0.29V @ 150 C (302 F) Sensor Failsafe; Fixed to 4th Gear 1st & 2nd will be Prohibited Default Value 80 C (176 F) May Not Turn On MIL





Input & Output Speed Sensors



Output Speed Sensor Resistance: 5.8m ohms

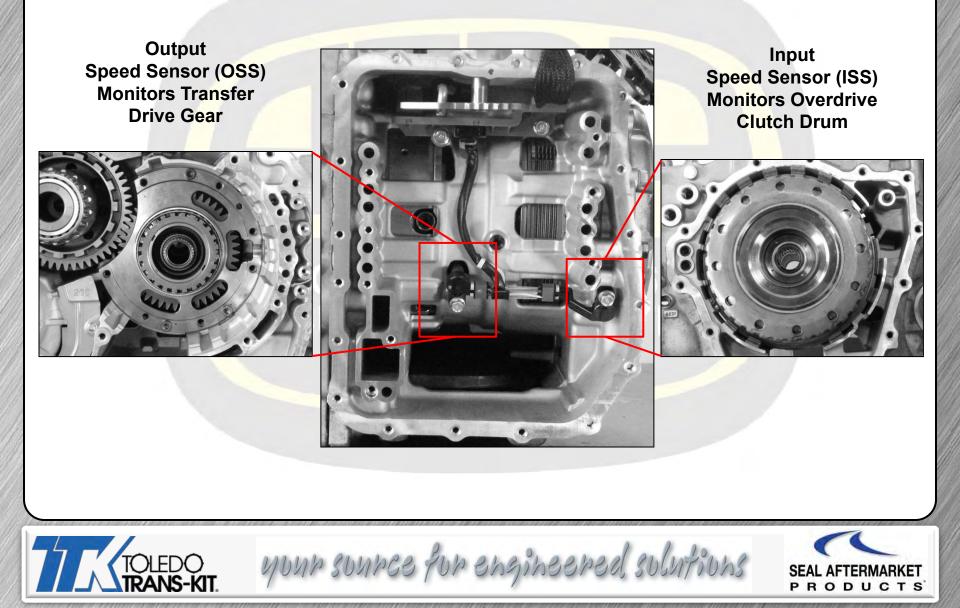
Input / Output Sensor Failsafe: 4th Gear Hold in Drive, 2nd - 4th Manual Shift (Sport)



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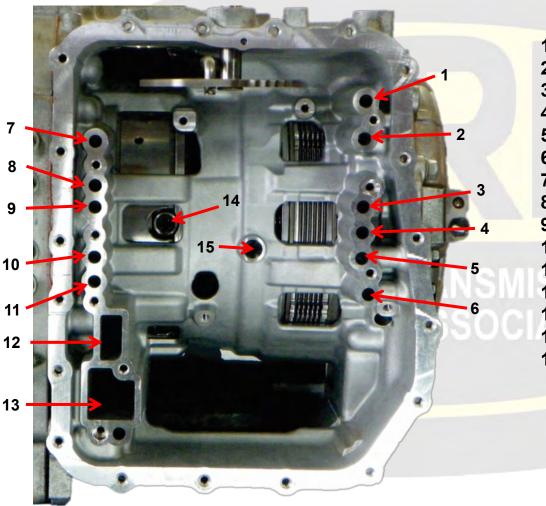
Input & Output Speed Sensors





Case Air Checks

Front of Trans

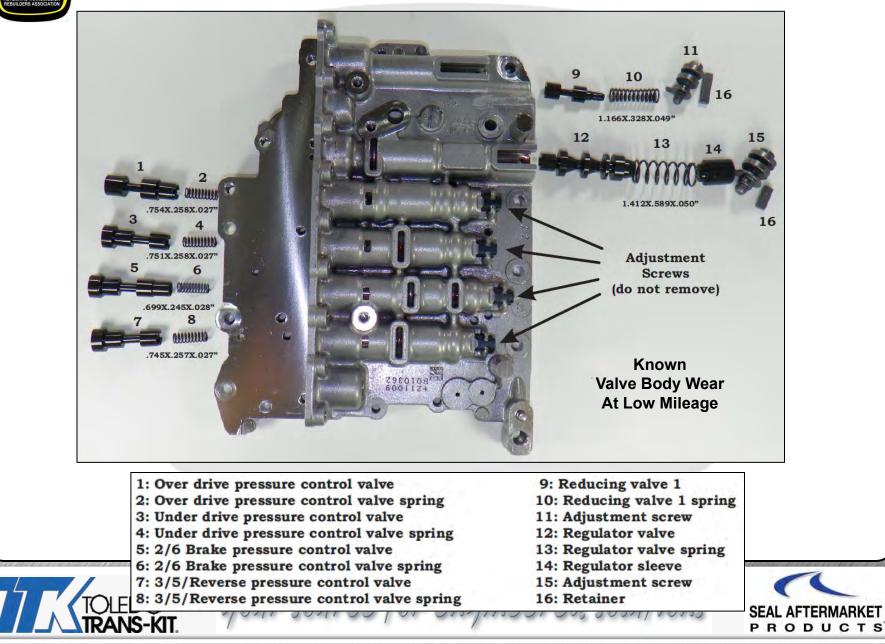


To Cooler
From Cooler
Lubrication (rear)
Overdrive Pressure
Reducing Pressure (Red 2)
Reducing Pressure (Red 1)
From Damper Pressure
To Damper Pressure
Lubrication (front)
3-5-R Clutch Pressure
From Oil Pump
To Oil Pump
Under-drive Pressure



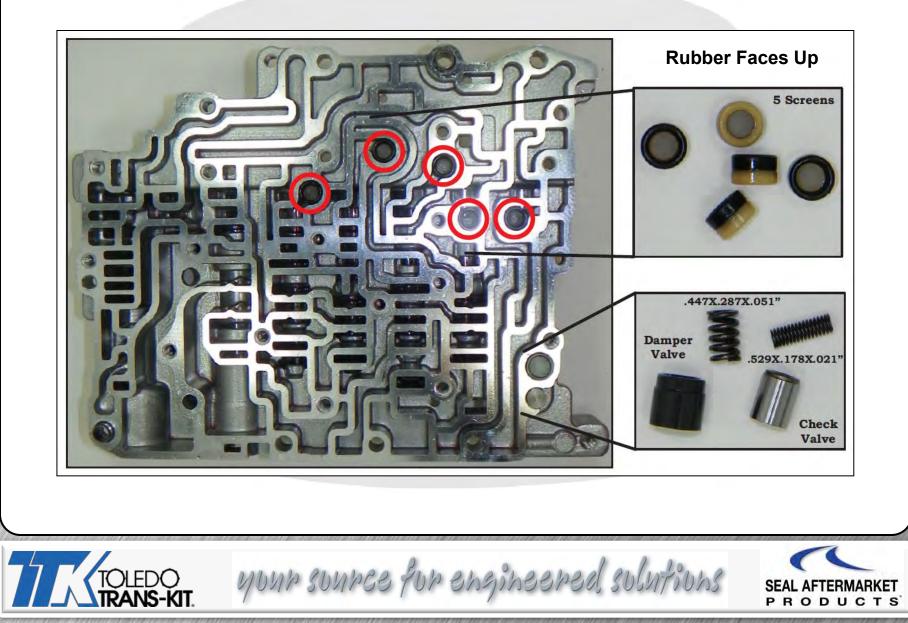


Outer Valve Body Assembly



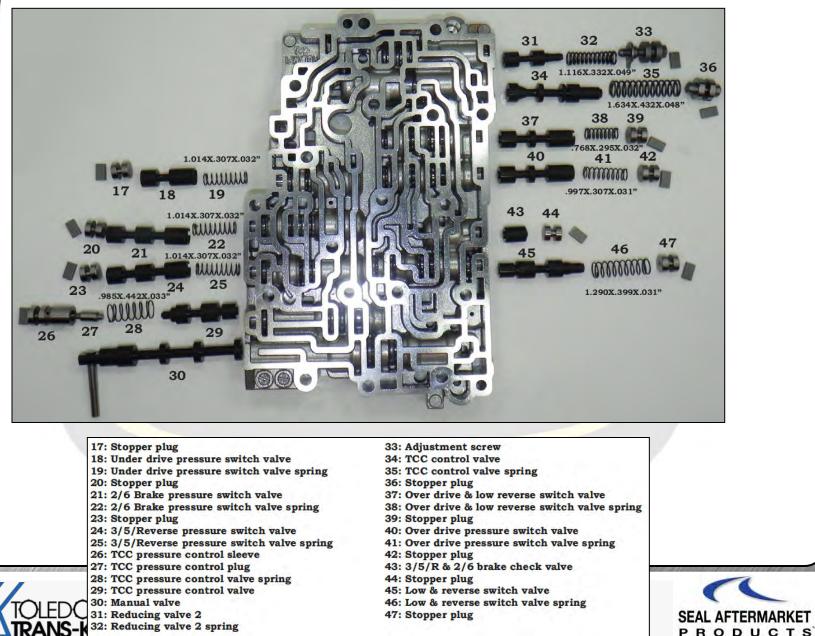


Outer Valve Body Assembly



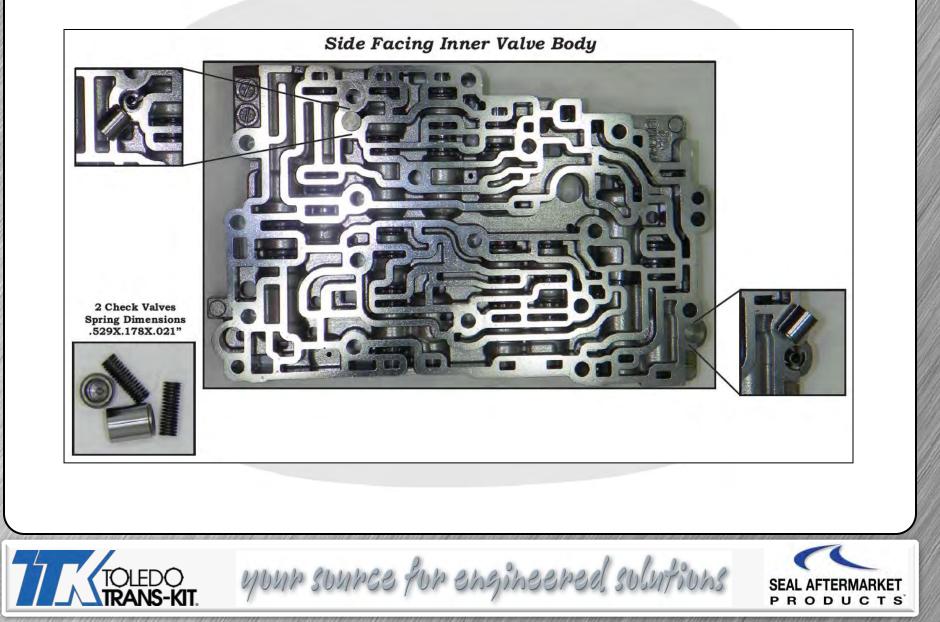


Center Valve Body Assembly



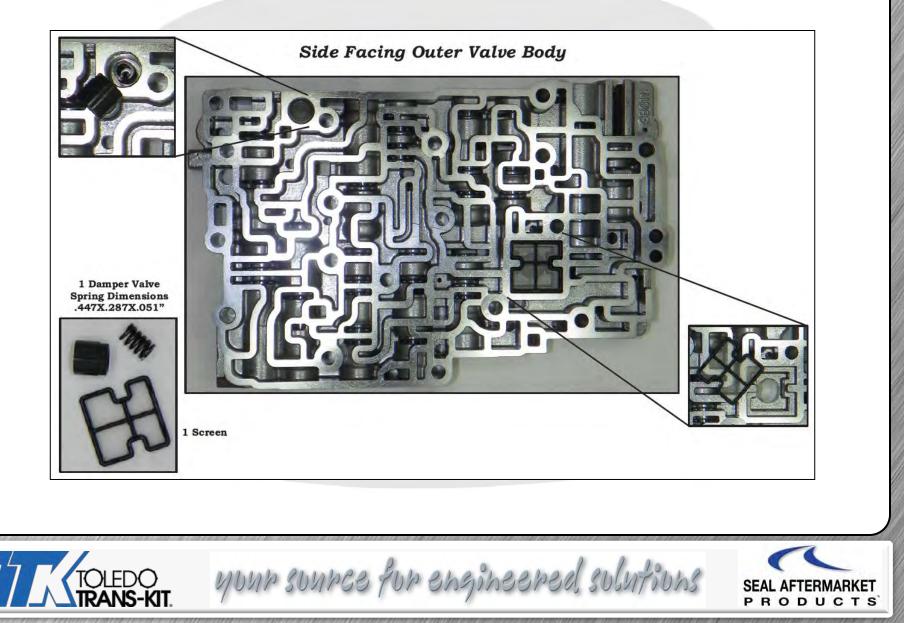


Center Valve Body Assembly



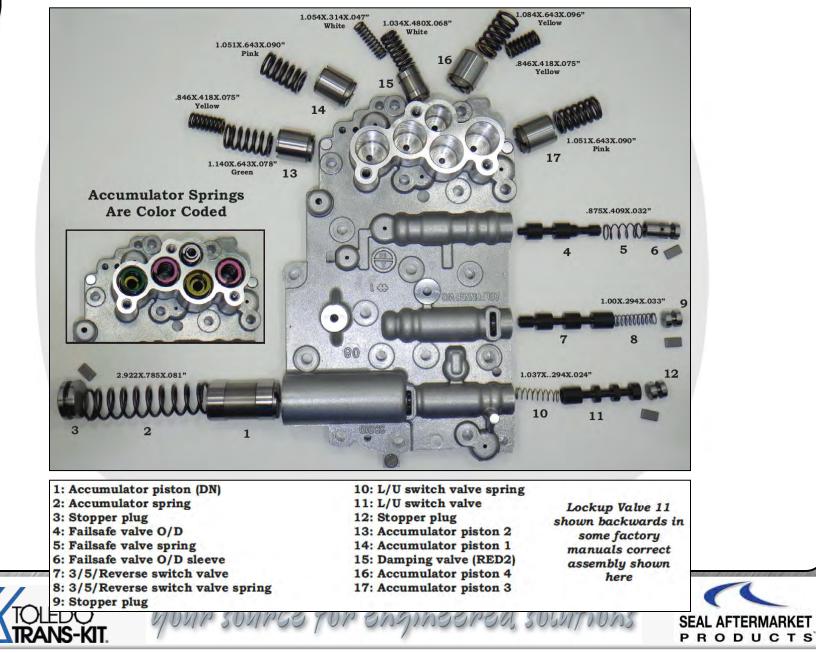


Center Valve Body Assembly



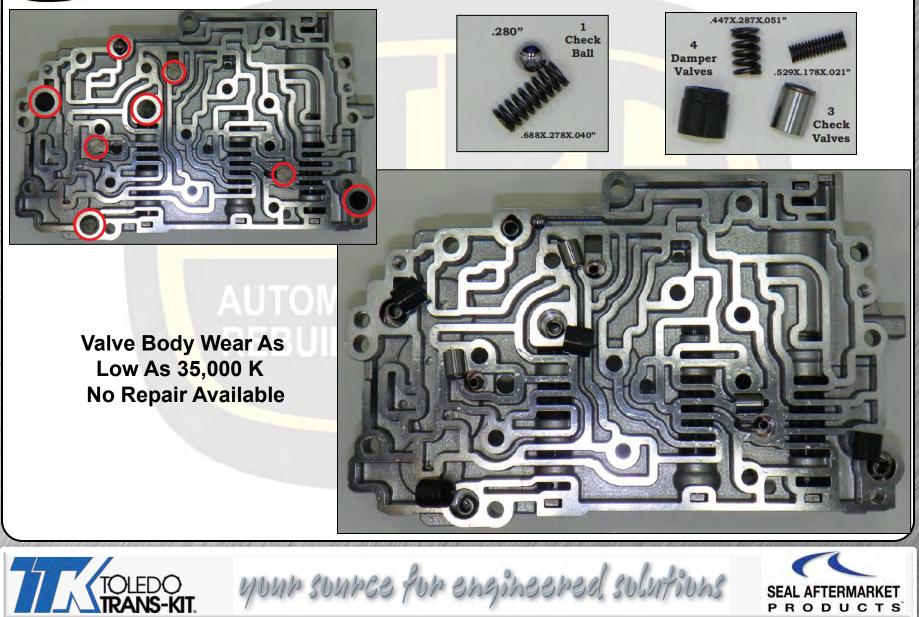


Inner Valve Body Assembly

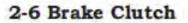




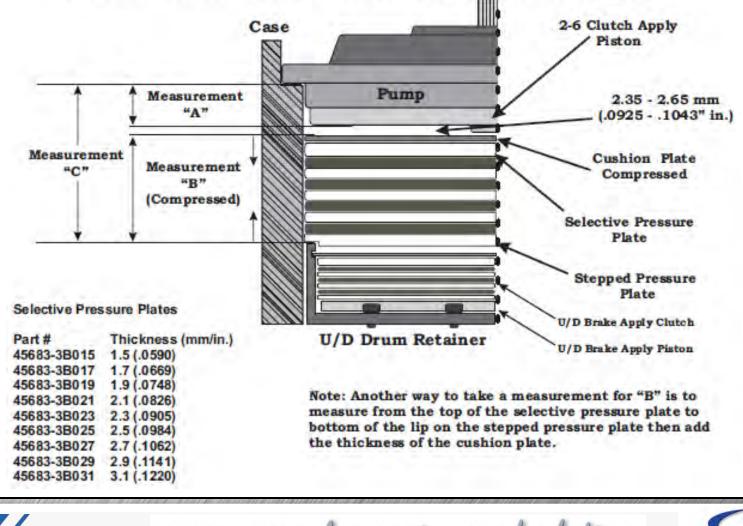
Inner Valve Body Assembly



Clutch End Play Checks



Add measurement "A" and "B" subtract the total from measurement "C"



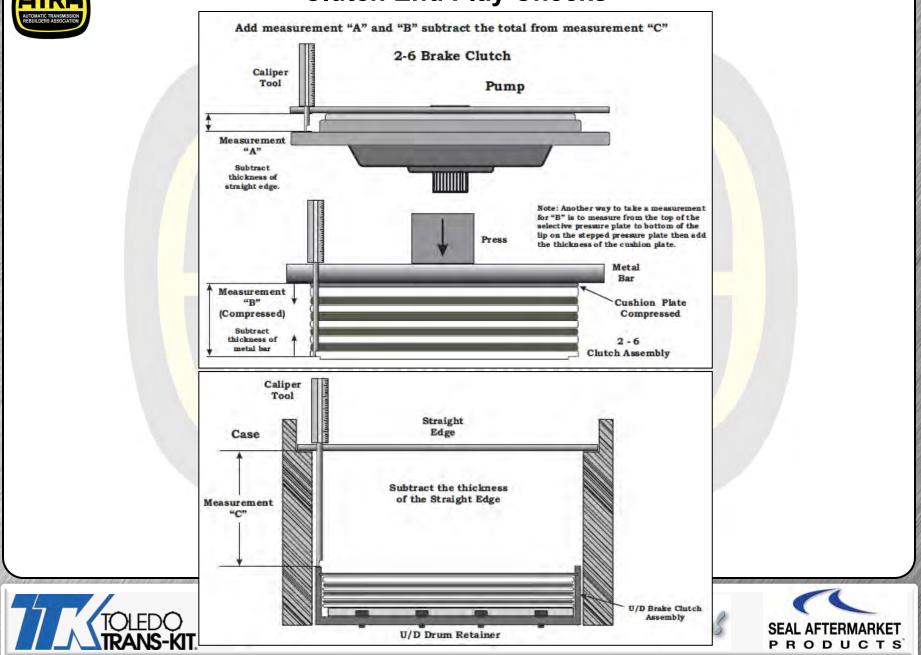


OI FDO





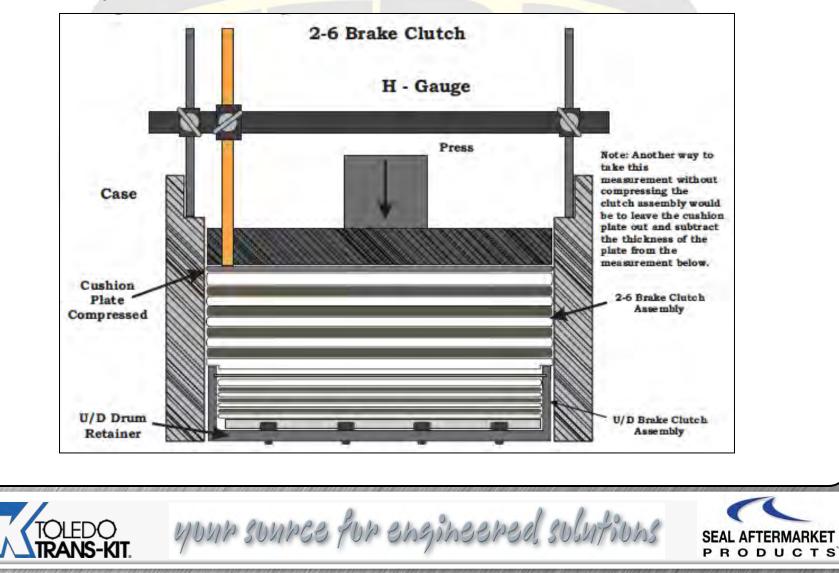
Clutch End Play Checks





Clutch End Play Checks "Alternative Procedure"

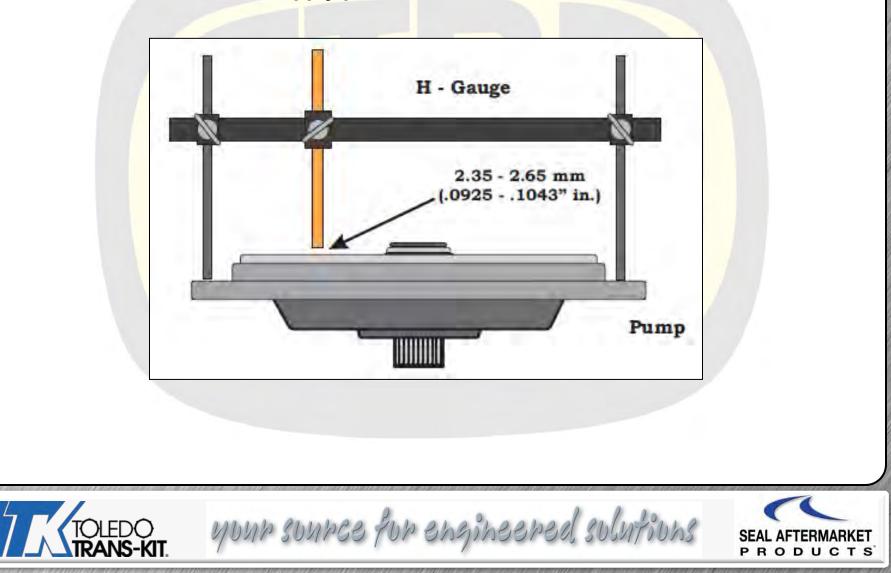
Place the legs of the H-Gauge on the case at the pump to case mating area. Slide the measuring bar down to the compressed 2-6 Brake Clutch Cushion Plate.





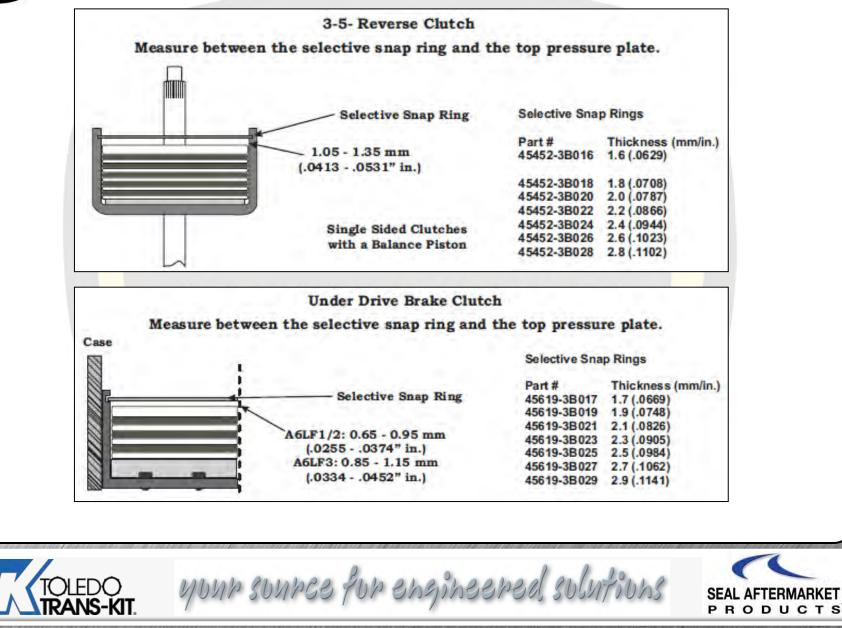
Clutch End Play Checks "Alternative Procedure"

Then flip the H-Gauge over and place onto the pump at the to case mating area. Measure the clearance at the apply piston.



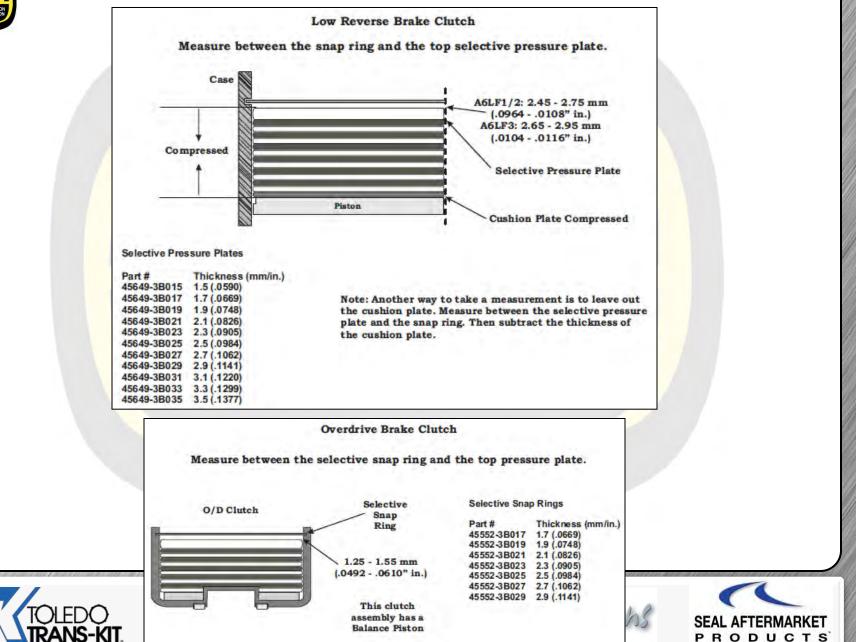


Clutch End Play Checks





Clutch End Play Checks





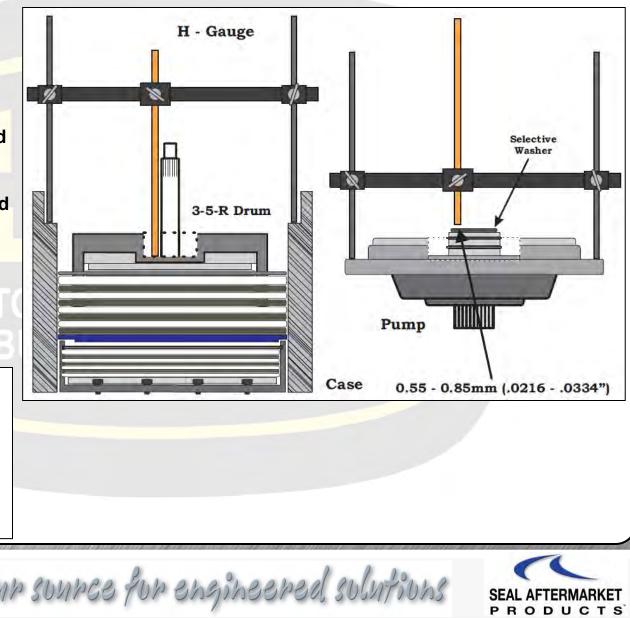
Unit End Play Specifications (Front)

Place the legs of the H-Gauge on the case at the pump to case mating area. Slide the measuring bar down to the bottom of the 3-5-R drum where the thrust washer would make contact.

Then flip the H-Gauge over and place onto the pump at the to case mating area.

With the selective thrust washer in place measure the amount of end play present.

Unit end play (front) 0.55 - 0.85mm (.0216 - .0334") Selective Thrust Washers Part # Thickness (mm/in.) 45472-3B018 1.8 (.0708) 45472-3B020 2.0(.0787)45472-3B022 2.2(.0866)45472-3B024 2.4(.0944)45472-3B026 2.6(.1023)2.8(.1102)45472-3B028



Unit End Play Specifications (Rear)

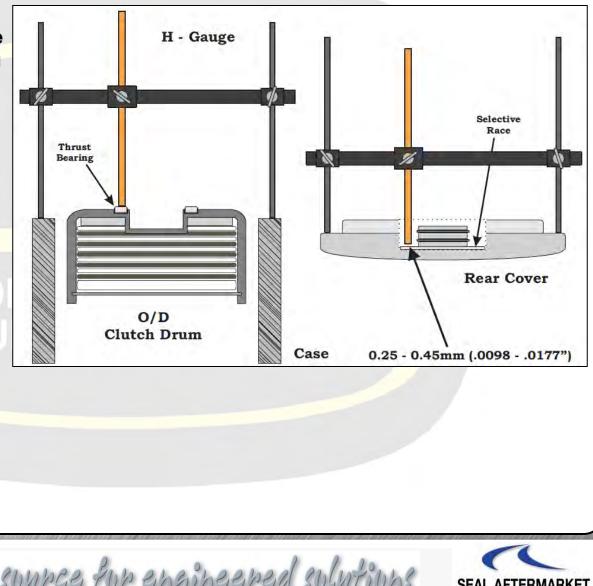


Place the legs of the H-Gauge on the case at the rear cover to case mating area. Slide the measuring bar down until it makes contact with the thrust bearing on the bottom of the O/D drum.

Then flip the H-Gauge over and place onto the rear cover at the case to cover mating area.

With the selective race in place measure the amount of end play present.

Unit end play (re 0.25 - 0.45mm (. Selective Thrust Part # 45853-3B014 45853-3B015 45853-3B016 45853-3B017 45853-3B018 45853-3B019 45853-3B020 45853-3B021	.00980177") Races Thickness (mm/in.) 1.4 (.0551) 1.5 (.0590) 1.6 (.0629) 1.7 (.0669) 1.8 (.0708) 1.9 (.0748) 2.0 (.0787)
45853-3B021 45853-3B022 45853-3B023	2.1 (.0826) 2.2 (.0866) 2.3 (.0905)

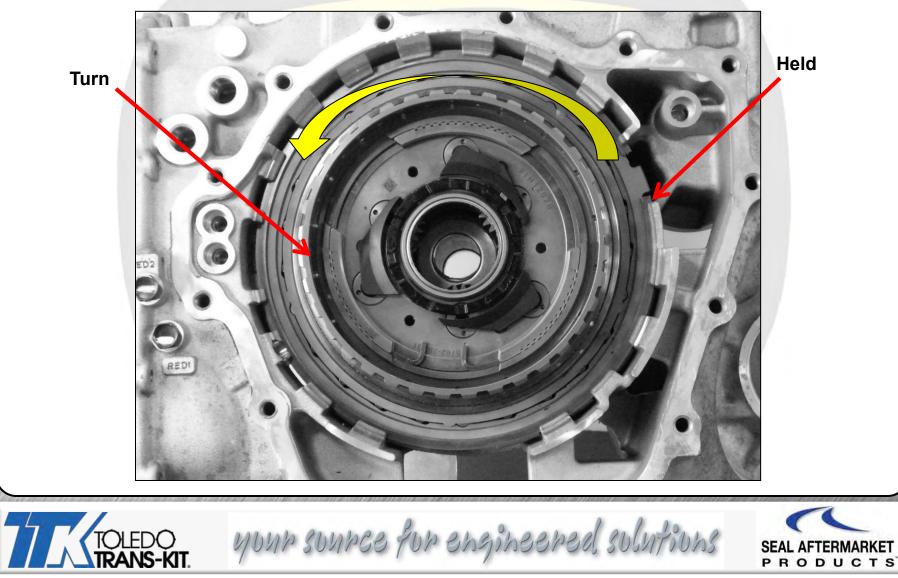


PRODUCTS



Low/Reverse One Way Clutch (sprag) Rotation

Planet Turns (Freewheels) Counter Clockwise When Viewed From Back Of Case





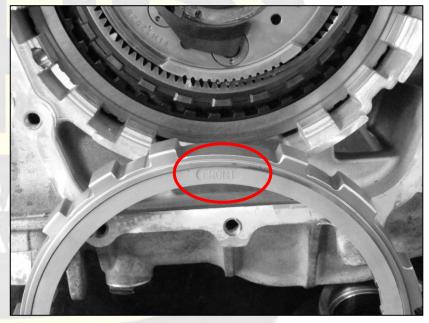
Low/Reverse One Way Clutch (sprag) Rotation

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There are no identification marks On the side that faces out.



The word "Front" is marked on the side that faces towards the pump.



"Front"





ATTRA AUTOMATIC TRANSMISSION REDILICERS ASSOCIATION

Under Drive Brake Piston Inner Seal Failure

There is a problem with inner under drive lip seal prematurely wearing. This may cause a delay or slip in drive. This similar to the clutch seal wear found in the early 1999 Subaru 4EAT Phase II transmission.

Under Drive Brake Drum

Rough Area



SSOCIATION

The only difference with this drum is it may be too rough to sand down smooth. the drum will have to be replaced.



SEAL AFTERMARKET PRODUCTS



Pressure Tap Identification

Top of Case



Low Reverse Brake Clutch

Back of Case





Damper Release/Apply 3-5-Reverse Clutch /2-6 Brake Clutch

Bottom of Case



Overdrive Clutch / Reducing Pressure 1 / Reducing Pressure 2



Under Drive Brake Clutch



our source for engineered solutions





Pressure Testing

Shifter	RPM	Solenoid Current (mA)						ON/OFF Solenoid Pressure (psi)								-		
Position		UD/B	OD/C	26/B	35R/C	P	TCC	SSA	SSB	UD/C +/-	OD/C +/-	26/C	35R/C +/-	LR/B +/-	RED1 +/-	RED2 +/-	DR +/-	DA +/-
D1	2500	0	852	0	852	0	0	OFF	OFF			1.4 UNDER			71-3		104-109	
		700					4	*		9-20			1		-			-
Sec. 44	1.1	600					-			38-44								-
		500							14	65-77			1		-	-	-	1
		0	852	852	852	0	0	OFF	OFF	213-249		230	0-6		71-3	71-3		
D2			+	352								13-24 40-74	1		_			
1	-			452		H	-	++-		_		65-77			-		-	
-		0	852	002	0		-	OFF	ON	213-249	5	02-11	000	0.¢	74.0	71-3		-
Q2.1			002		700	0	0	UT1	- M	21-3-248	-D		230	0-6	71-3	11-3		-
D3		1	1	Ť	600		1	1	1				36-27					-
1.1		-			500	-	-	1					61-72		-			-
D4		0	0	0	852	0	0	OFF	OFF	213-249	213-249		1.000	100	71-3	71-3	·	
			700								20							1
		1	652	1				T	T		31				71-3			
D5		852	0	0	0	0	0	OFF		4-6	230		213-249		71-3	71-3		
		852	0	852	852	0	852	OFF	OFF	1.1.1	213-249	213-249		1000	1000	71-3	0-3	109-1
	11					400					35-192), <u></u>	1			20.24	1
1.1		-			111	600					115-129	-	1		-			
5.1		-				852	11				57-71				-			1
D6		1.0			111 11	0	562	OFF	OFF		1000		1			1.11	DA 45	DR 60
$(-\pi)^{\dagger}$	0					4	452	4	+			1					DA 18	DR 33
1		0	0	0	852	0	0	ON	OFF	213-249		1	1	230			10	-
D1	600	0	852	0	852	0	0	1.1	OFF	ABOVE 7	1.11	1.21	1		71-3		111	
N		852	0	0	852	0	0	1	OFF	2.4				An or less	71-3	74.0		-
R	2500		852	0	0.02	0	0	OFF					213-249	ABOVE 7. 230	-	71-3		-
(1) A6LF			1.1.1.1		-	-											1 miles	-



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Solenoid Function

Item	Item Function		Specificaions				
	2-6/B T/Con	2	Control pressure 9.81-500kps (0.1-5.1kgf/cm2, 1.42-7254psi) Curren value: 50-850mA Low Type 5.1 ohh				
VFS	Line pressure Control	1	Control pressure00.14 9.81kpa (5.1-0.1kgf/cm2, 72.54-1.42psi) Curren value: 50-850mA High Type 5.1 ohm				
	35R U/D O/D	3	Control pressure00.14 9.81kpa (5.1-0.1kgf/cm2, 72.54-1.42psi) Curren value: 50-850mA High Type 5.1 ohm				
On/Off	SS-A SS-B	2	Control pressure 490.33kpa (5.0kgf/cm2 71.12psi) Curreent value 10-110mA On/Off Type 10-11 ohm				

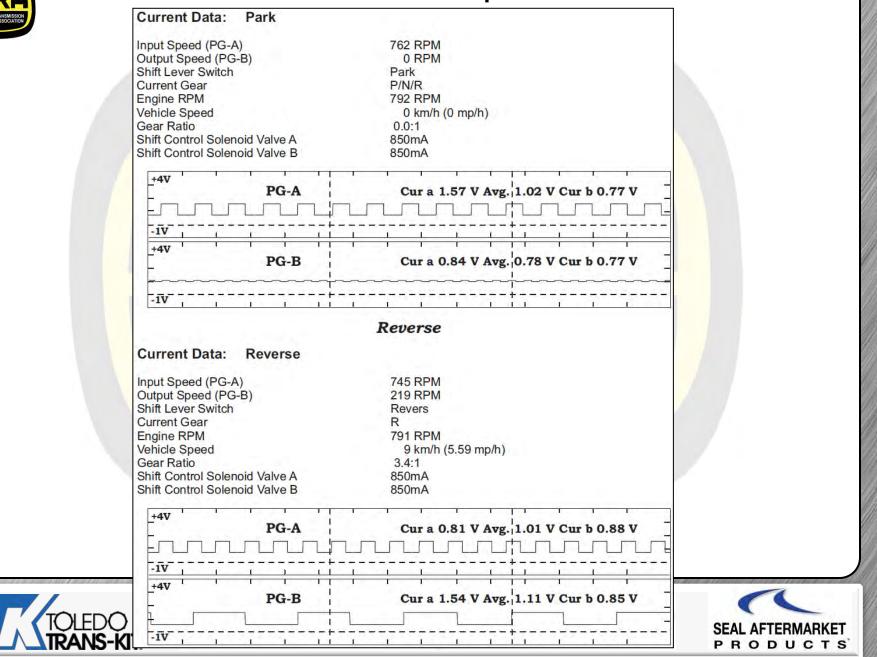
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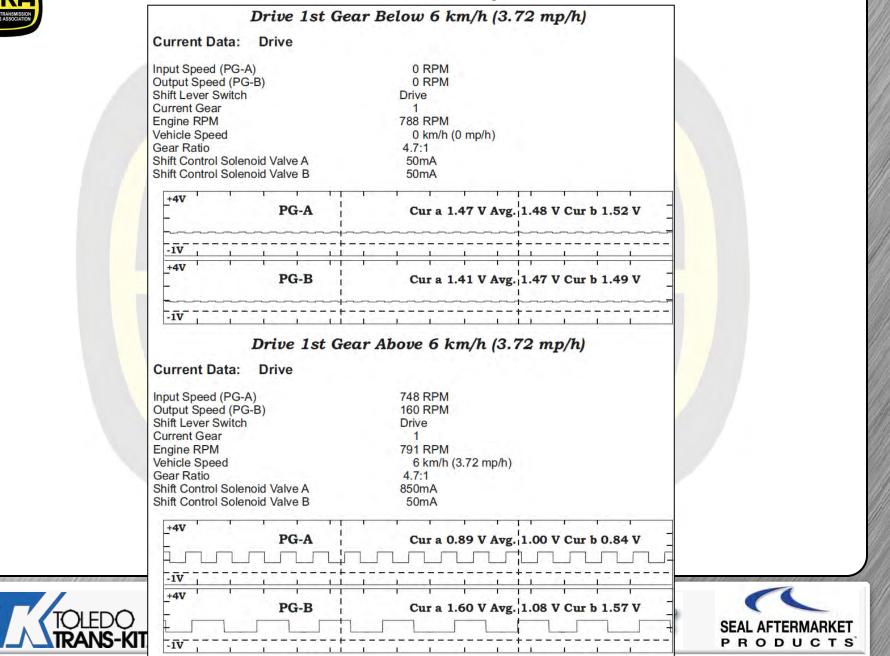




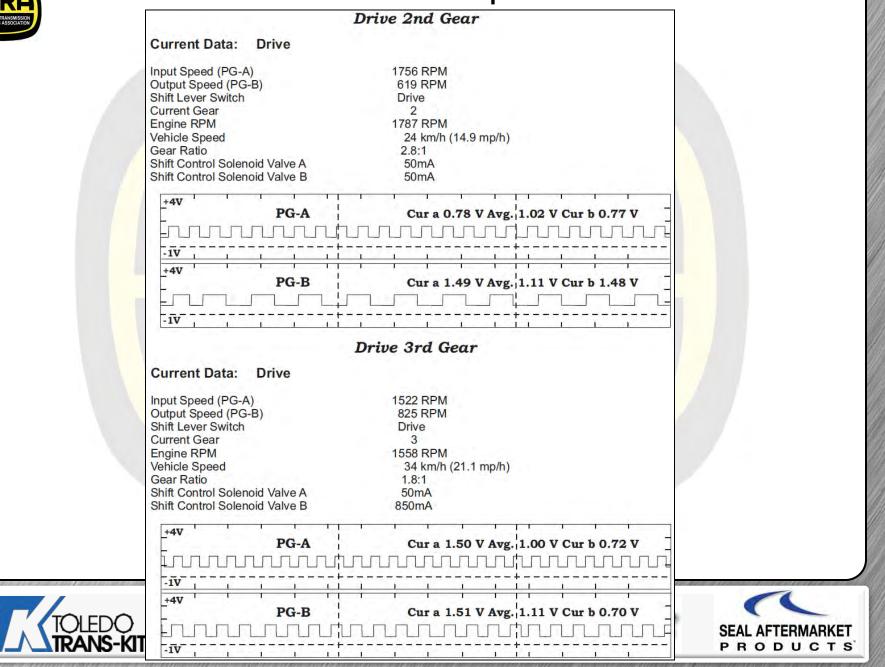




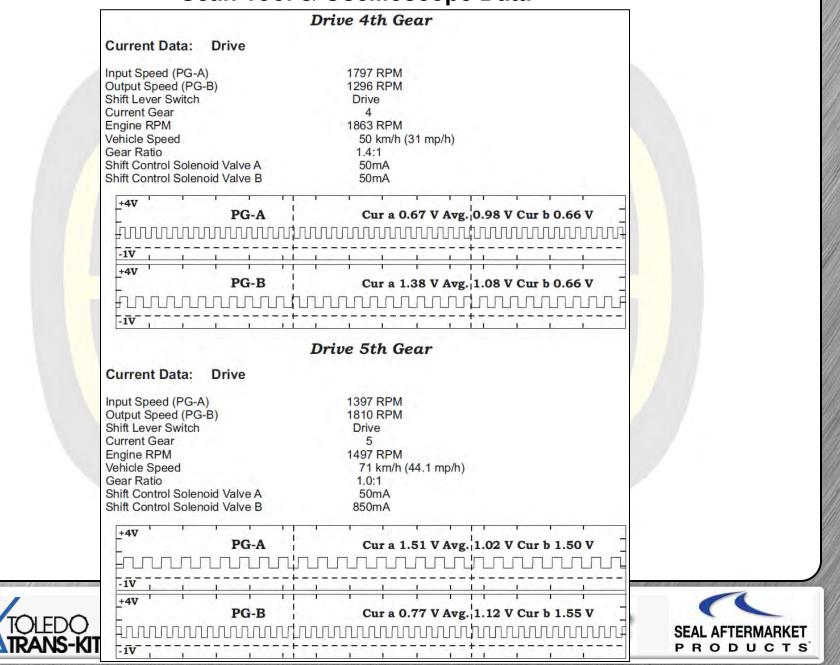
















TCM Learning Procedure

When harsh shifts have occurred or parts related with the transaxle are replaced. TCM learning should be performed.

TCM learning is required when; Transaxle assembly is replaced TCM is replaced TCM is updated

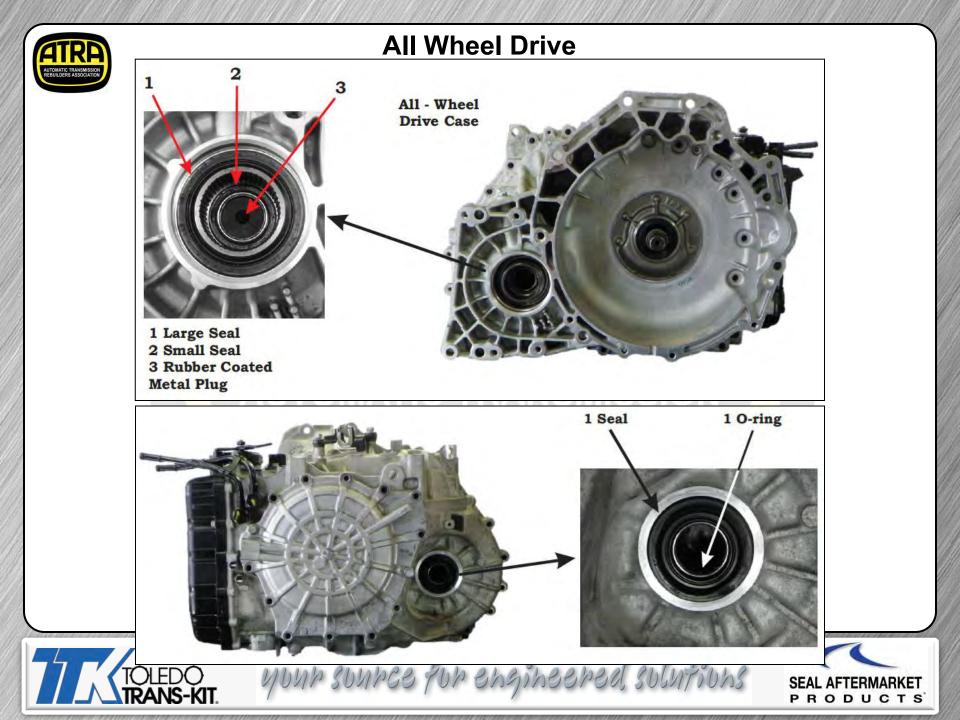
Note: ATF temperature must be: 60-115 C (140-239 F)

TCM relearn procedure;

- A: Stop learning. <u>(engagements)</u>
- 1. Shift from Neutral to Park 4 times or more while depressing brake.
- **B: Driving learning.**
- 1. Drive through all gears in D range from a stop at a fixed 15-30% throttle opening.
- 2. Down shift from 6th to 5th, 5th to 4th, 4th to 3rd, 3rd to 2nd, 2nd to 1st.
- 3. Repeat 4 times or more.







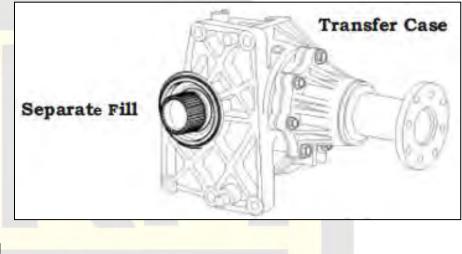
All Wheel Drive

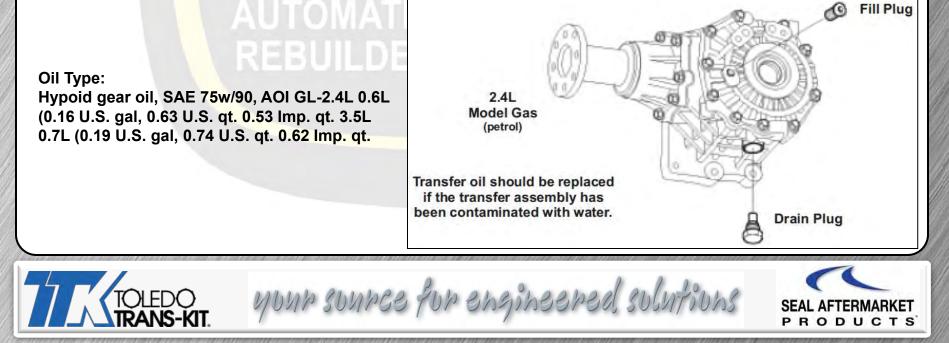


Transfer oil should be checked and refilled if needed every 30 months or 59,500 Km (37,500 miles).

Tightening torque Oil drain plug: 39.2~58.8N.m (4.0~6.0kgf.m, 28.9~43.4lb-ft) Tightening torque Filler plug: 39.2~58.8N.m (4.0~6.0kgf.m, 28.9~43.4lb-ft)

Transfer Oil Replacement; Transfer oil is not replaced under normal conditions. But it should be replaced every 75,000 miles in severe driving conditions.







4 Pinion Differential Gear Set

The differential has a 4 pinion gear set up to handle high torque levels in a compact designed transmission.

- This creates 50% more capacity than other differentials of the same size.
- Differential side gears & pinion gear backlash .025 .150mm (.0009 .0059").



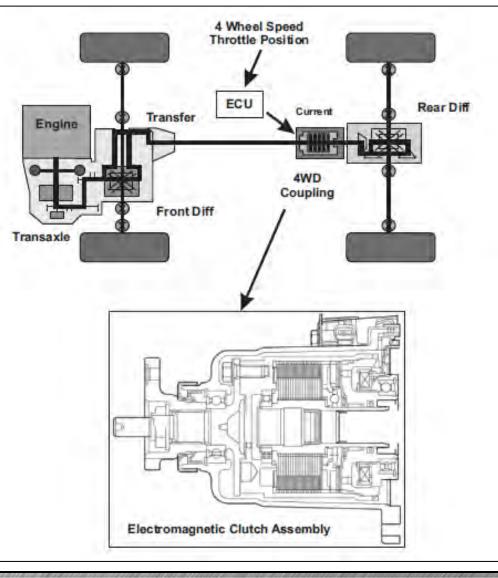


Auto Mode:

While driving in the 4WD AUTO mode, the vehicle operates similar to conventional 2WD vehicle under normal driving conditions.

If the system determines a need for the 4WD mode, the engine's driving torque is distributed to all four wheels automatically without driver control.

While driving on normal roads and pavement, the vehicle reacts similar to conventional 2WD vehicle.





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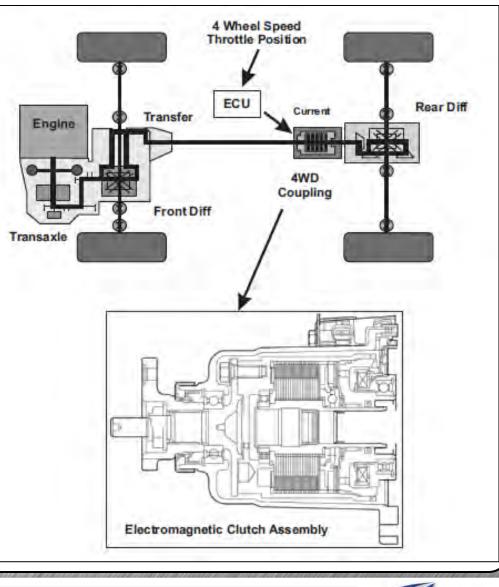




Lock Mode: 4WD lock mode is used for climbing or descending sharp grades, off-road driving, driving on sandy and muddy roads, etc., for maximize traction.

This mode will automatically begin to deactivate at speeds above 30 km/h (19 mph) and shifts to 4WD AUTO mode at speed above 40 km/h (25 mph).

If the vehicle decelerates below 30 km/h (19 mph), the transfer mode is shifted into 4WD LOCK mode again.



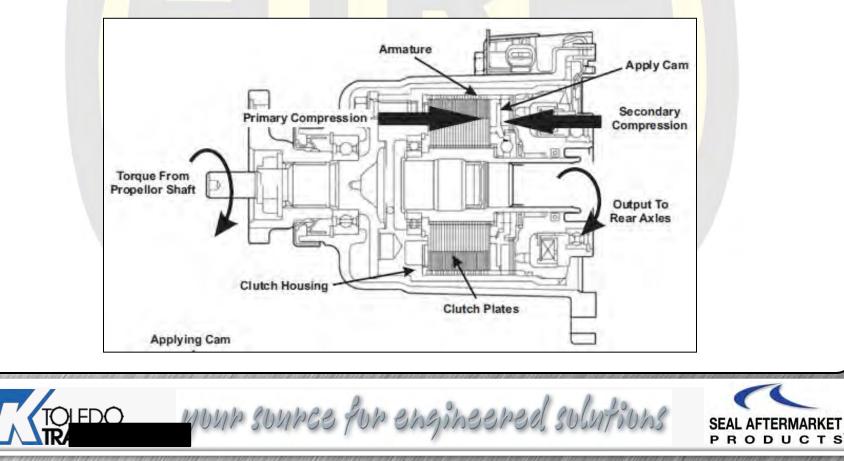


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The Electronic Control Unit (ECU) use inputs (listed below) to control the amount of current needed to apply the electromagnetic clutch assembly located in the 4 wheel drive couple mounted onto the rear differential.

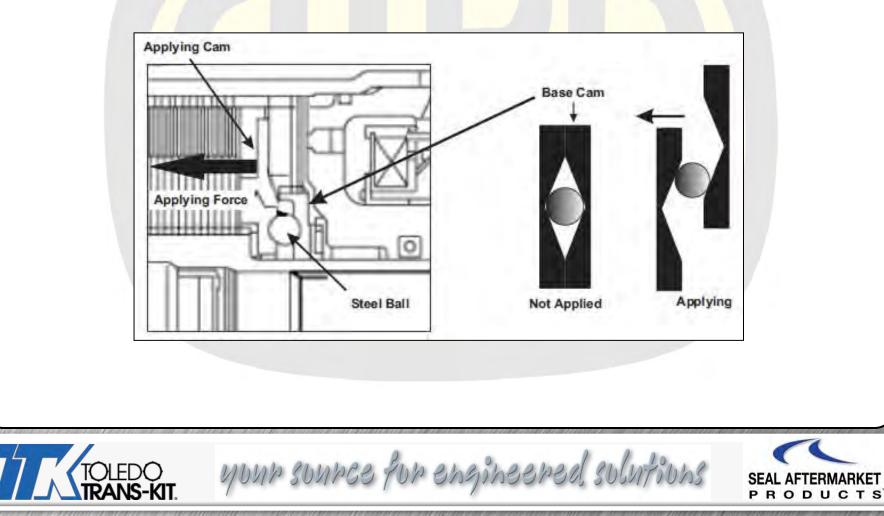
- Input torque (Throttle position sensor)
- Cornering situation (Steering angle sensor)
- Vehicle speed and different wheel speed front & rear (Wheel speed sensor)
- Braking situation (Brake signal and ABS signal)





The EMC (Electric Magnetic Clutch) operates the primary clutch controlling the cam's opening gap.

This Controls the slip of inner & outer plate to optimize front & rear driving force.





Transfer Gear Preload

Note: Transfer gear preload is known to be too tight from factory, this must be checked during rebuild.



Torque Specifications		
Item	N.m	lb.ft
Transfer drive gear	30.4 - 35.3	22.4 - 26.0
Rear cover	27.5 - 34.3	20.3 - 25.3
Under drive brake retainer	30.4 - 35.3	22.4 - 26.0
Under drive brake chamber	4.9 - 9.8	3.6 - 7.2
Park rod guide	9.8 - 11.8	7.2 - 8.7
Oil pump pipe	9.8 - 11.8	7.2 - 8.7
Oil pump	19.6 - 25.5	14.5 - 15.9
Oil filter	9.8 - 11.8	7.2 - 8.7
Torque converter housing	27.5 - 34.3	20.3 - 25.3
Valve body cover	9.8 - 11.8	7.2 - 8.7
Inhibitor switch	9.8 - 11.8	7.2 - 8.7
Manual control lever	17.7 - 24.5	13.0 - 18.1









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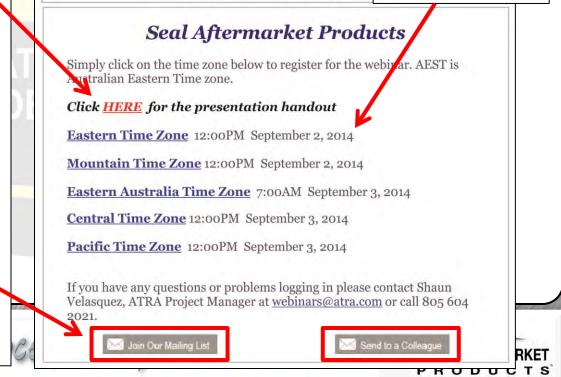
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