

2014 GMC Acadia Denali

2014 TRANSMISSION Automatic Transmission - 6T75 (M7V M7X) - Specifications

2014 TRANSMISSION**Automatic Transmission - 6T75 (M7V M7X) - Specifications****SPECIFICATIONS****FASTENER TIGHTENING SPECIFICATIONS (OFF VEHICLE)****Fastener Tightening Specifications (Off Vehicle)**

Application	*Ref No.	Quantity	Size	Specification	
				Metric	English
A/Trans Case Cover Bolt	18	10	M6x1.0x30	12 N.m	106 lb in
A/Trans Fluid Pump Bolt	1	3	M6x1.0x25	12 N.m	106 lb in
A/Trans Fluid Trough Bolt	11	1	M6x1.0x25	12 N.m	106 lb in
Control Valve Body Assembly (Complete) Bolt	19, 21	3	M6x1.0x55	12 N.m	106 lb in
Control Valve Body Assembly (Complete) Bolt	20	3	M6x1.0x35	12 N.m	106 lb in
Control Valve Body Assembly (Complete) Bolt	22	5	M6x1.0x65	12 N.m	106 lb in
Control Valve Body to Case	23	2	M6x1.0x55	12 N.m	106 lb in
Control Valve Body to Case Bolt	24	8	M6x1.0x65	12 N.m	106 lb in
Control Valve Assembly (w/TCM and Body) to Case Bolt	25	1	M6x1.0x42	12 N.m	106 lb in
Control Valve Assembly (w/TCM and Body) to Case Bolt	26	1	M6x1.0x55	12 N.m	106 lb in
Control Valve Assembly (w/TCM and Body) to Case Bolt	27	2	M6x1.0x65	12 N.m	106 lb in
Control Valve Assembly (w/TCM and Body) to Case Bolt	28	4	M6x1.0x80	12 N.m	106 lb in
Control Valve Assembly (w/TCM and Body) to Case Bolt	29	3	M6x1.0x95	12 N.m	106 lb in
Control Valve Body Cover Bolt	30	12	M6x1.0x30	12 N.m	106 lb in
Control Valve Body Cover Stud	31	2	M6x1.0x30	12 N.m	106 lb in
Fluid Pressure Test Hole					

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Plug	12	1	1/8"-27 NPTF	12 N.m	106 lb in
Fluid Level Hole Plug	13	1	1/8"-27 NPTF	12 N.m	106 lb in
Front Differential Carrier Baffle Bolt	6	1	M6x1.0x25	12 N.m	106 lb in
Front Differential Transfer Drive Gear Support Bolt					
• First Pass	5	9	M8x1.25x25	10 N.m	89 lb in
• Final Pass	5	9	M8x1.25x25	50 degrees	
Input Shaft Support Bolt (Torx)	N/A	3	M6x1.0x50	12 N.m	106 lb in
Input Speed Sensor Bolt	17	1	M6x1.0x25	9 N.m	80 lb in
Output Speed Sensor Bolt	14	1	M6x1.0x25	12 N.m	106 lb in
Park Pawl Actuator Bracket Bolt	10	2	M6x1.0x25	12 N.m	106 lb in
Support Fluid Passage Tube (Torx) Bolt	2	2	M5x0.8x12	7 N.m	62 lb in
Support Fluid Passage Tube Bolt	3	2	M6x1.0x15	12 N.m	106 lb in
Torque Converter and Differential Housing Bolt	8	14	M8x1.25x35	36 N.m	27 lb ft
Torque Converter and Differential Housing Bolt	9	3	M8x1.25x35	30 N.m	22 lb ft
Transmission Cooler Pipe (External Torx) Stud	15	2	M8x1.25x30.5	12 N.m	106 lb in
*Reference number refers to the component callout number in Disassembled Views					

FASTENER TIGHTENING SPECIFICATIONS (ON VEHICLE)

Fastener Tightening Specifications (On Vehicle)

Application	Specification	
	Metric	English
Control Valve Body Bolts	12 N.m	106 lb in
Control Valve Body Cover Bolts	12 N.m	106 lb in
Control Valve Body Cover Studs	12 N.m	106 lb in
Drain Plug	12 N.m	106 lb in
Fluid Cooler Fitting at Radiator	38 N.m	28 lb ft
Fluid Cooler Outlet Pipe Retainer Nut	22 N.m	16 lb ft
Fluid Cooler Pipe Nut	228 N.m	16 lb ft
Fluid Pressure Test Hole Plug	12 N.m	106 lb in
Input Speed Sensor Fastener	9 N.m	80 lb in
Output Speed Sensor Fastener	12 N.m	106 lb in
Shift Control Knob Retaining Screw	1.5 N.m	13 lb in
Torque Converter to Flywheel Bolt	62 N.m	46 lb ft

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Transaxle Bracket Bolts	50 N.m	37 lb ft
Transaxle Front Mount to Transmission Bolts	57 N.m	42 lb ft
Transaxle Front Mount Through Bolt	100 N.m	74 lb ft
Transaxle Left Mount to Frame Rail Bolts	27 N.m	20 lb ft
Transaxle Left Mount Bracket to Transmission Bolts	57 N.m	42 lb ft
Transaxle Range Selector Cable Bracket Bolt	25 N.m	18 lb ft
Transaxle Range Switch Lever Nut	20 N.m	15 lb ft
Transaxle Rear Mount to Frame Bolts	57 N.m	42 lb ft
Transaxle Rear Mount Through Bolt	100 N.m	74 lb ft
Transaxle Rear Mount Bracket to Transmission Bolt	100 N.m	74 lb ft
Transaxle Rear Mount Bracket to PTU	57 N.m	42 lb ft
Transaxle Shift Control Nut	25 N.m	18 lb ft
Transaxle to Engine Bolt	75 N.m	55 lb ft
Transmission Fluid Cooler Pipe Quick Connect Fitting	38 N.m	28 lb ft
Transmission Fluid Cooler Pipe Mounting Nuts	22 N.m	16 lb ft

TRANSMISSION GENERAL SPECIFICATIONS

Transmission General Specifications

Name	6T70/6T75/6T80
RPO Codes	6T70-MH2, M7W (2WD), MH4, M7U (4WD) 6T75-MY9, M7V (2WD), MH6, M7X (4WD), 6T80-MHM (2WD)
Production Location	Warren Michigan (USA), Ramos, Mexico
Transaxle Drive	Front Wheel Drive, All Wheel Drive
Reverse Gear Ratio	2.88
1st Gear Ratio	4.484
2nd Gear Ratio	2.872
3rd Gear Ratio	1.842
4th Gear Ratio	1.414
5th Gear Ratio	1.000
6th Gear Ratio	0.742
Effective Final Drive Gear Ratio	2.77/3.16/3.39
Torque Converter Size- Diameter of Torque Converter Turbine	246 mm
Pressure Taps	Line Pressure
Transaxle Fluid Type	DEXRON VI®
Transaxle Fluid Capacity	9.0 L/9.5 qts Quarts
Transaxle Type: 6	Six Forward Gears
Transaxle Type: T	Transverse Mount
Transaxle Type: 70/75/80	Product Series

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Position Quadrant	P, R, N, D, * *(Refer to the applicable owner's manual)
Case Material	Die Cast Aluminum
Transaxle Net Weight	104 kg
Maximum Trailer Towing Capacity	N/A
Maximum Gross Vehicle Weight (GVW)	4, 000 lbs

ADHESIVES, FLUIDS, LUBRICANTS AND SEALERS**Adhesives, Fluids, Lubricants and Sealers**

Application	Type of Material	GM Part Number	
		United States	Canada
Automatic Transmission Fluid	DEXRON®VI	88861037	19264717
Input Speed Sensor	Threadlock	12345382	10953489

FLUID CAPACITY SPECIFICATIONS**Fluid Capacity Specifications**

Application	Specification	
	Metric	English
Valve Body Cover Removal - Approximate Capacity	5.0-7.0 liters	5.3-7.4 quarts
Fluid Change - Drain Plug - Approximate Capacity	4.0-6.0 liters	4.2- 6.3 quarts
Overhaul - Approximate Capacity	7.0-9.0 liters	7.4-9.5 quarts

TAPER BEARING PRELOAD SELECTIVE SPECIFICATIONS**Front Differential Drive Pinion Gear and Differential Thrust Washer Selection Chart**

Thrust Washer O.D. Color Code	Washer Thickness	
	Metric	English
Brown	0.494 mm	0.020 in
Purple	0.545 mm	0.022 in
Black	0.596 mm	0.024 in
Pink	0.647 mm	0.026 in
Dark Blue	0.698 mm	0.028 in
Light Green	0.749 mm	0.030 in
Plain	0.800 mm	0.032 in
White	0.851 mm	0.034 in
Light Blue	0.902 mm	0.036 in
Orange	0.953 mm	0.038 in
White/Black	1.004 mm	0.040 in
White/Orange	1.055 mm	0.042 in
White/Light Green	1.106 mm	0.044 in

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RANGE REFERENCE

Range Reference

Range	Park	Reverse	Neutral	Drive						
				1st Braking	1st	2nd	3rd	4th	5th	6th
1-2-3-4 Clutch	-	-	-	Applied	Applied	Applied	Applied	Applied	-	-
3-5 Reverse Clutch	-	Applied	-	-	-	-	Applied	-	Applied	-
4-5-6 Clutch	-	-	-	-	-	-	-	Applied	Applied	Applied
2-6 Clutch	-	-	-	-	-	Applied	-	-	-	Applied
Low and Reverse Clutch	Applied*	Applied	Applied*	Applied	-	-	-	-	-	-
Low Clutch Assembly (OWC)	-	-	-	Holding	Holding	-	-	-	-	-

* = Applied with NO load

SHIFT SOLENOID VALVE STATE AND GEAR RATIO

Shift Solenoid Valve State and Gear Ratio

Gear	Shift SOL 1	Shift SOL 2	1-2-3-4 CL PC SOL 5 N.L.	2-6 CL PC SOL 4 N.L.	3-5 REV CL PC SOL 2 N.H.	LOW REV 4-5-6 CL PC SOL 3 N.H.	Gear Ratio
Park	ON	ON	OFF	OFF	OFF	ON	-
Reverse	ON	OFF	OFF	OFF	ON	ON	2.88
Neutral	ON	ON	OFF	OFF	OFF	ON	-
1st Braking	ON	ON	ON	OFF	OFF	ON	4.484
1st	OFF	ON	ON	OFF	OFF	OFF	4.484
2nd	OFF	ON	ON	ON	OFF	OFF	2.872
3rd	OFF	ON	ON	OFF	ON	OFF	1.842
4th	OFF	ON	ON	OFF	OFF	ON	1.414
5th	OFF	ON	OFF	OFF	ON	ON	1.000
6th	OFF	ON	OFF	ON	OFF	ON	0.742

Effective Final Drive Ratio - 6T70/75/80 - 2.77/3.16/3.39

For shift solenoids 1 and 2, "ON" = Solenoid Energized (Pressurized) "OFF" = Solenoid De-energized (No Pressure).

For pressure control solenoids, "ON" = Pressurized, "OFF" = No Pressure

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SHIFT SPEED**Shift Speed**

Shift @ TP	km/h	mph	OSS (RPM)
1-2 @ 12.5	16	9.9	345
2-3 @ 12.5	26	16.2	561
3-4 @ 12.5	39.5	24.5	852
4-5 @ 12.5	54	33.6	1164
5-6 @ 12.5	71	44.1	1531
6-5 @ 12.5	68.5	42.6	1477
5-4 @ 12.5	51	31.7	1100
4-3 @ 12.5	36	22.4	776
3-2 @ 12.5	23	14.3	496
2-1 @ 12.5	11	6.8	237
1-2 @ 25	21.5	13.4	464
2-3 @ 25	36	22.4	776
3-4 @ 25	48	29.8	1035
4-5 @ 25	64	39.8	1380
5-6 @ 25	115	71.5	2479
6-5 @ 25	68.5	42.6	1477
5-4 @ 25	51	31.7	1100
4-3 @ 25	36	22.4	776
3-2 @ 25	23	14.3	496
2-1 @ 25	11	6.8	237

NOTE: Shift speed points are affected by many different vehicle and transmission operating conditions. The table above represents shift speed points calibrated at specific throttle angles during normal operating conditions and a temperature range between 0-130°C (32-266°F). These shift speed points are also based on an effective final drive ratio of 3.16 and assume a production-intent tire size. The table below illustrates a number of different variables that influence these shift speed points. Based on a given operating condition, these variables may override the normal shift speed points. To assist in monitoring the different variables, the respective scan tool data parameter is also listed.

Shift Speed Variables

Scan Tool Parameter	Shift Speed Variables
Calc. Throttle Position	Calc. Throttle Position (TP) is one of the most important inputs in the transmission shift pattern logic. A very low TP angle will impact the shift pattern by causing upshifts. A very high TP angle will impact the shift pattern by causing downshifts.
	Based on numerous inputs, the transmission control module (TCM) selects the optimum gear. Once the TCM commands a gear, the

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Commanded Gear	pressure control solenoids are activated to hydraulically control engagement of the proper clutch.
Cruise	When cruise control is activated, the shift pattern is altered to reduce excessive shifting.
ECT	Shift speed points may be offset to enhance engine coolant temperature (ECT) warm-up. Also, operating the vehicle at higher engine speeds will reduce the time to warm the ECT and the TFT.
Engine Speed	To protect against an over speed condition, engine speed is monitored. If the engine speed becomes too high, an upshift will occur.
Engine Torque	Engine torque is used to predict vehicle operating conditions, in order to determine the optimum gear and provide for a smoother ride.
IMS	The internal mode switch (IMS) indicates the position of the transmission manual valve. The operator controls this valve by moving the gear range selector. Therefore, the possible gears may be limited by this valve position.
TCC PC Sol. Duty Cycle	The torque converter clutch (TCC) pressure control (PC) solenoid duty cycle indicates when the TCC has been engaged.
TCC Slip Speed	The TCC Slip Speed indicates the difference between engine speed and transmission input speed. The TCC is locked when slip speed is at or near zero and may be controlling slip when at lower slip speeds.
TFP Switch 1, 3, 4 or 5	The transmission fluid pressure (TFP) switch is used to indicate if fluid pressure to a specific clutch has been applied or released.
Trans. Fluid Temp.	A lower TFT will extend shift speeds, a higher TFT or hot mode condition, will invoke shorter shift speeds in order to establish a shift pattern required to cool the TFT.
Transmission Hot Mode	If the TFT becomes too hot, a hot mode shift pattern is used. The hot mode shift pattern will invoke lower shift speed points to establish a shift pattern necessary to cool the TFT.
Transmission OSS	The transmission output speed sensor (OSS) is one of the most important inputs into the transmission shift pattern logic. A very low transmission output speed will impact the shift pattern by causing downshifts. A very high transmission output speed will impact the shift pattern by causing upshifts.

TRANSMISSION FLUID PRESSURE SWITCH LOGIC**Transmission Fluid Pressure Switch Logic**

Gear	TFP Switch States			
	TFP SW1	*TFP SW3	TFP SW4	TFP SW5
Park	High	Low	Low	Low
Reverse	Low	Low	Low	Low
Neutral	High	Low	Low	Low
Drive 1st - Engine Braking	High	High	Low	Low
Drive 1st	High	High	Low	High

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Drive 2nd	High	Low	Low	High
Drive 3rd	Low	High	Low	High
Drive 4th	High	High	Low	Low
Drive 5th	Low	High	High	Low
Drive 6th	High	Low	High	Low

High = 12 V (Switch Open or Pressurized)
Low = 0 V (Switch Closed or No Pressure)
Note: All TFP switches are normally closed (NC)
*TFP switch 2 does not exist

TRANSMISSION INTERNAL MODE SWITCH LOGIC**Transmission Internal Mode Switch Logic**

Gear Selector Position	Signal A	Signal B	Signal C	Signal P
Park	LOW	HI	HI	LOW
Park/Reverse	LOW	LOW	HI	LOW
Reverse	LOW	LOW	HI	HI
Reverse/Neutral	HI	LOW	HI	HI
Neutral	HI	LOW	HI	LOW
Neutral/Drive 6	HI	LOW	LOW	LOW
Drive 6	HI	LOW	LOW	HI
Drive 6/Drive 4	LOW	LOW	LOW	HI
Drive 4	LOW	LOW	LOW	LOW
Drive 4/Drive 3	LOW	HI	LOW	LOW
Drive 3	LOW	HI	LOW	HI
Drive 3/Drive 2	HI	HI	LOW	HI
Drive 2	HI	HI	LOW	LOW
Open	HI	HI	HI	HI
Invalid	HI	HI	HI	LOW
Invalid	LOW	HI	HI	HI

HI = Ignition voltage
LOW = 0 volts

SOLENOID VALVE PRESSURE**Line PC Solenoid Valve Pressure**

Requested Pressure (kPa)	Actual Pressure	
	Metric	English
0	345-900 kPa	50-130 psi
200	690-900 kPa	100-130 psi
400	1100-1310 kPa	160-190 psi
600	1520-1725 kPa	220-250 psi

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800	1860-2070 kPa	270-300 psi
1000	1860-2070 kPa	270-300 psi

TRANSMISSION PARTS KIT SPECIFICATIONS

Clutch Plate Pack 24240100

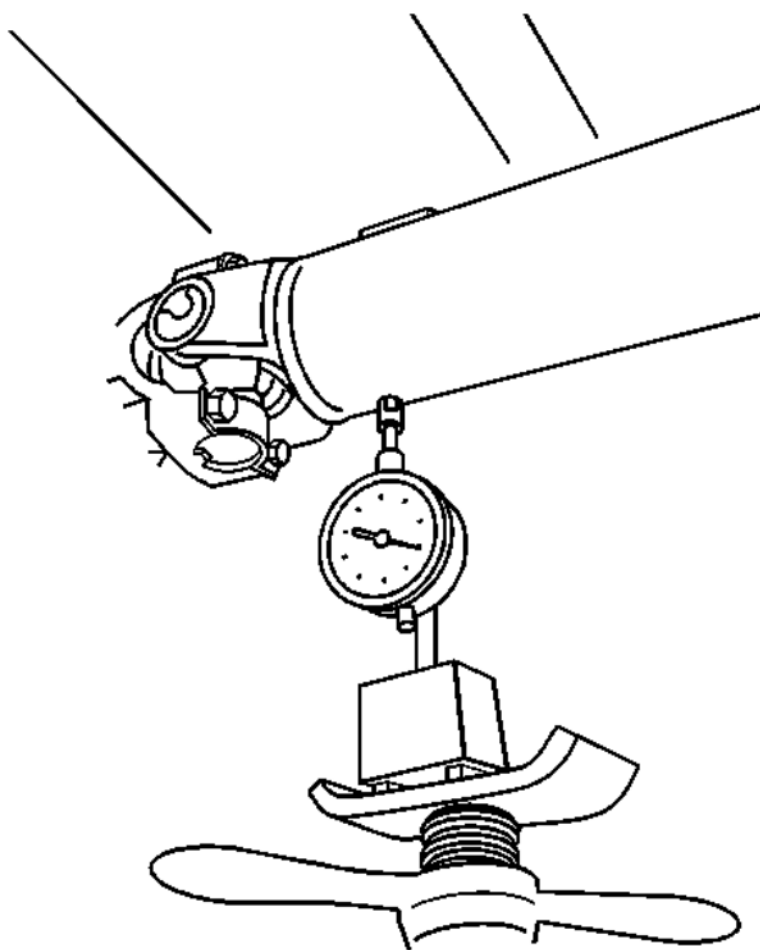


Fig. 1: Clutch Plate Pack 24240100

Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit. Callouts without boxes are shown for relationship purposes only.

Clutch Plate Pack 24240100

Callout	Quantity	Component Name
425	4	3-5-Reverse Clutch (w/Friction Material) Plate Assembly
440	6	4-5-6 Clutch (w/Friction Material) Plate Assembly

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447	3	2-6 Clutch (w/Friction Material) Plate Assembly
451	4	Low and Reverse Clutch (w/Friction Material) Plate Assembly
456	2	1-2-3-4 Clutch (w/Friction Material) Plate Assembly

Front Wheel Drive Shaft Seal Kit 19258265

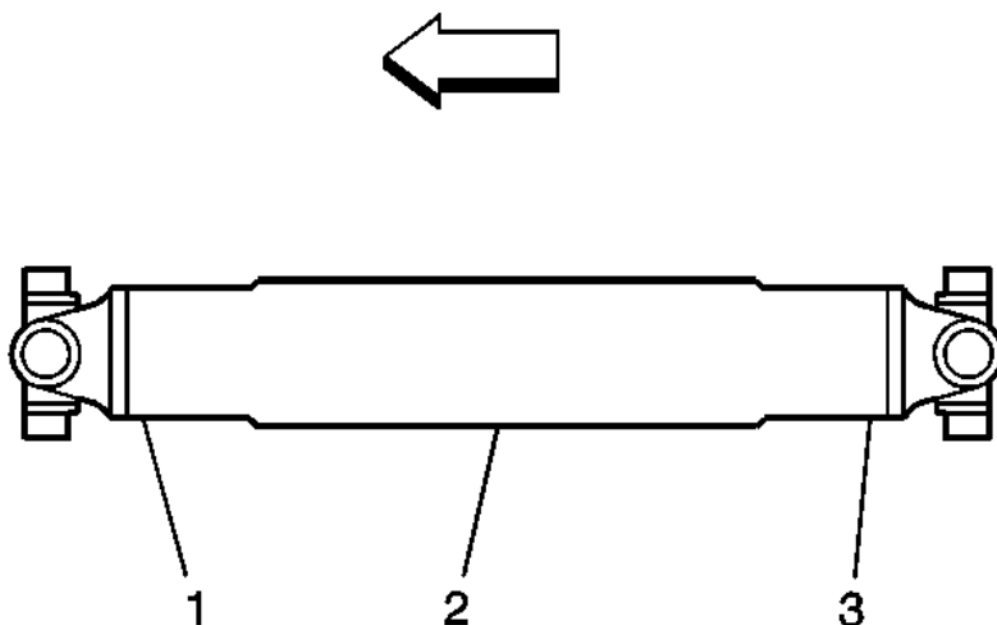


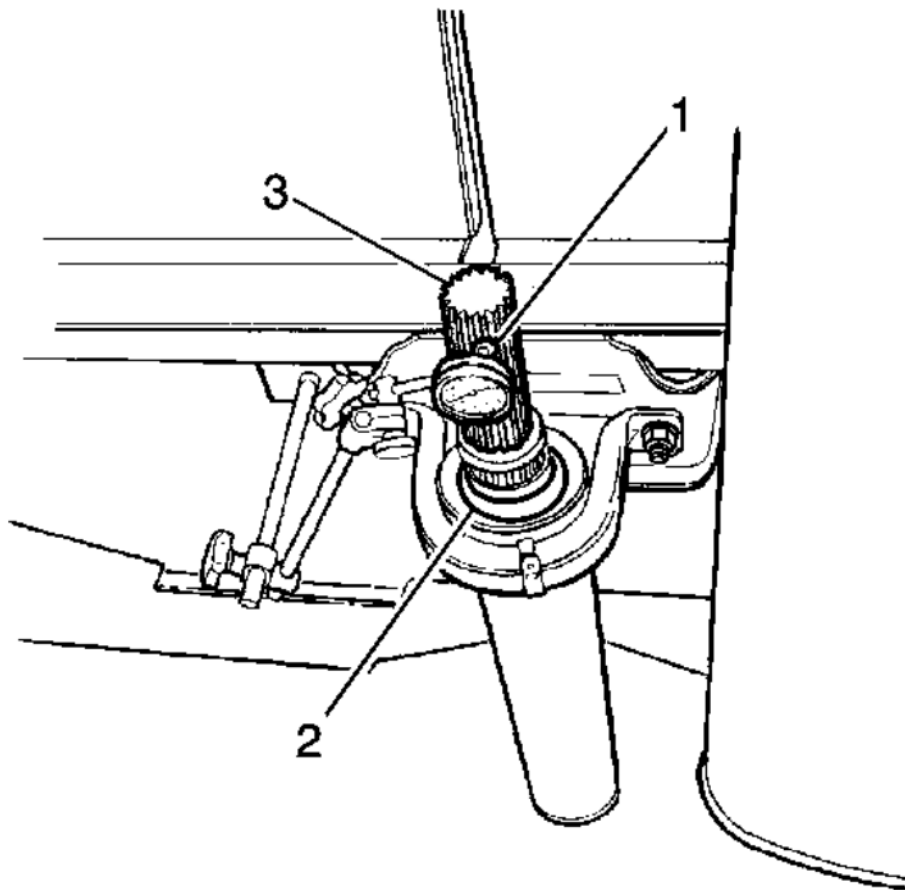
Fig. 2: Front Wheel Drive Shaft Seal Kit 19258265

Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit.
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Front Wheel Drive Shaft Seal Kit 19258265

Callout	Quantity	Component Name
226	1	Front Wheel Drive Shaft Oil (RHS) Seal Assembly
X	1	Seal Protector (Not Shown)

Front Wheel Drive Shaft Seal Kit 19258266**Fig. 3: Front Wheel Drive Shaft Seal Kit 19258266**

Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit.
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Front Wheel Drive Shaft Seal Kit 19258266

Callout	Quantity	Component Name
61	1	Front Wheel Drive Shaft Oil Seal Assembly
X	1	Seal Protector (Not Shown)

Control Valve Body Kit 24248118

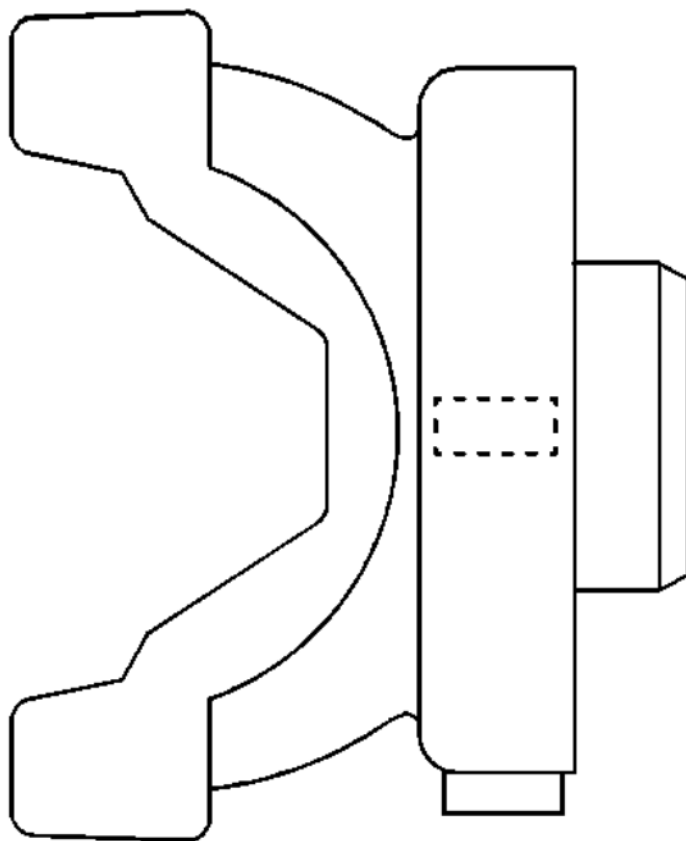


Fig. 4: Control Valve Body Kit 24248118
 Courtesy of GENERAL MOTORS COMPANY

Control Valve Body Kit 24248118

Callout	Quantity	Component Name
5	1	Control Valve Body Cover Assembly Gasket
10	1	Control Valve Body Cover Wiring Connector Hole Seal
16	1	Control Solenoid (w/ Body and TCM) Filter Plate Assembly
65	1	1-2-3-4 Clutch Fluid Passage Seal
301	1	Control Valve Channel Upper Plate Assembly
309	1	Control Valve Upper Body Spacer Plate Assembly
310	2	Control Valve Upper Body Spacer Plate Retainer
311	10	Control Valve Body Ball Check Valve
313	1	Control Valve Lower Body Spacer Plate Assembly

A/Trans Service Seal Kit (1 of 2) 24253594

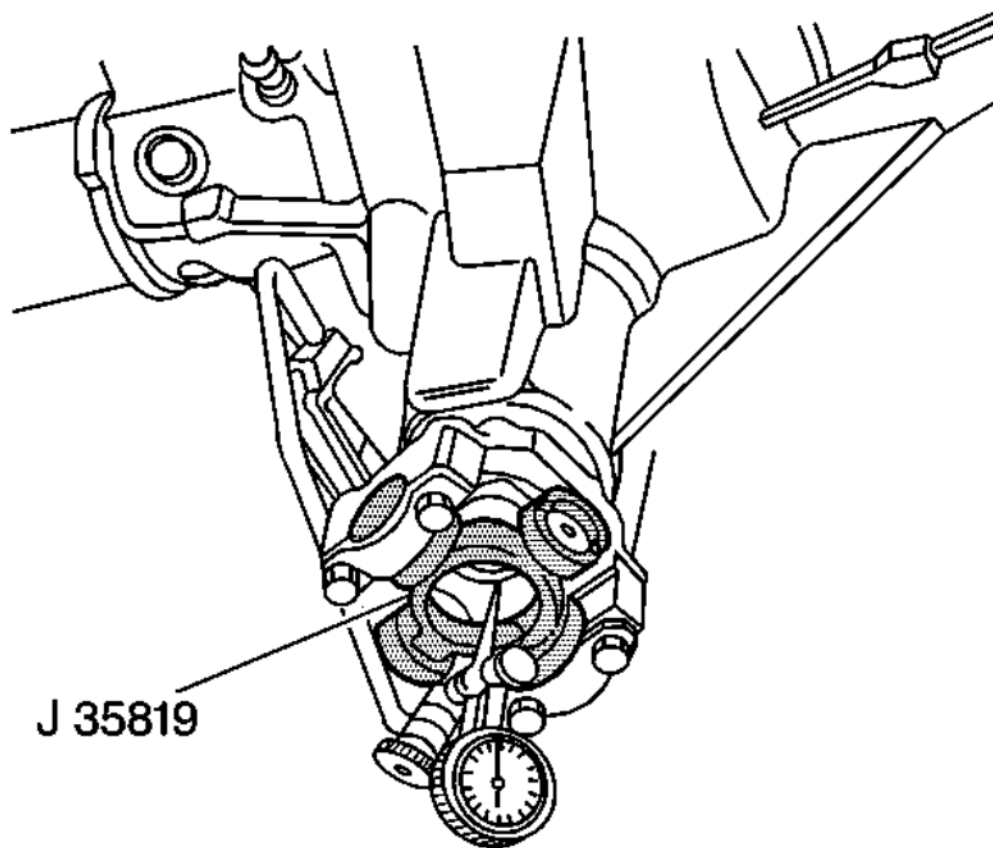


Fig. 5: Automatic Transmission Service Seal Kit 24253594 (1 Of 2)
 Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit.
 Callouts without boxes are shown for relationship purposes only.

A/Trans Service Seal Kit (1 of 2) 24253594

Callout	Quantity	Component Name
22	1	Torque Converter Housing Outer Seal
33	1	A/Trans Case Cover Gasket
58	1	Front Differential Drive Pinion Gear Lube Dam
61	1	Front Wheel Drive Shaft Oil Seal Assembly
205	1	Front Differential Transfer Drive Gear Support Seal Assembly
213	1	Front Differential Transfer Drive Gear Support Seal
219	1	Drive Sprocket Thrust Washer

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220	1	Drive Sprocket Thrust Washer
224	1	Front Differential Drive Pinion Gear Lube Dam
225	1	Torque Converter Fluid Seal Assembly
226	1	Front Wheel Drive Shaft Oil Seal Assembly
404	4	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
419	1	3-5-Reverse Clutch Piston Inner Seal
420	1	3-5-Reverse Clutch Piston Inner Seal
421	1	3-5-Reverse Clutch Piston Dam Seal
430	1	4-5-6 Clutch Piston Inner Seal
431	1	4-5-6 Clutch Piston Outer Seal
432	1	4-5-6 Clutch Piston Outer Seal
X	2	Trans Fluid Cooler Pipe Washer (Not Shown)
X	1	Axle Seal Protector (Not Shown)

A/Trans Service Seal Kit (2 of 2) 24253594

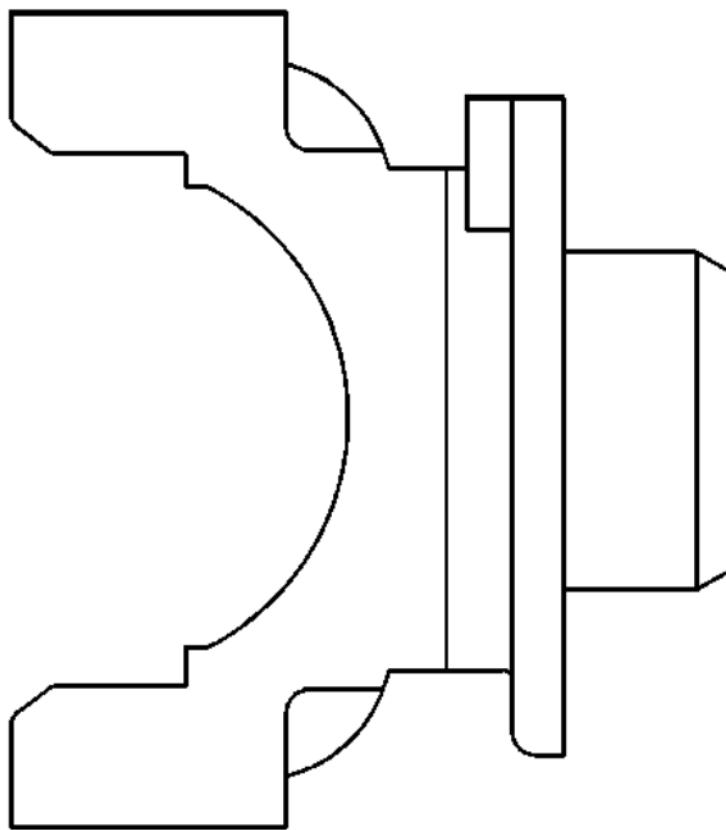


Fig. 6: Automatic Transmission Service Seal Kit 24253594 (2 Of 2)
 Courtesy of GENERAL MOTORS COMPANY

A/Trans Service Seal Kit (2 of 2) 24253594

Callout	Quantity	Component Name
4	1	Fluid Level Indicator Tube Seal - Model Dependent
54	1	A/Trans Fluid Trough O-Ring Seal
57	1	A/Trans Pump Fluid Outlet Seal Assembly
201	1	A/Trans Fluid Filter Assembly
202	1	Filter Neck Seal
206	1	Front Differential Transfer Drive Gear Support Torque Converter Fluid Seal Assembly
212	1	Front Differential Transfer Drive Gear Support Fluid Passage Tube Gasket
402	1	ISS O-Ring Seal
508	1	Manual Shift Shaft Seal

510

1

Manual Shift Shaft Pin

A/Trans Service Seal Kit 24256112

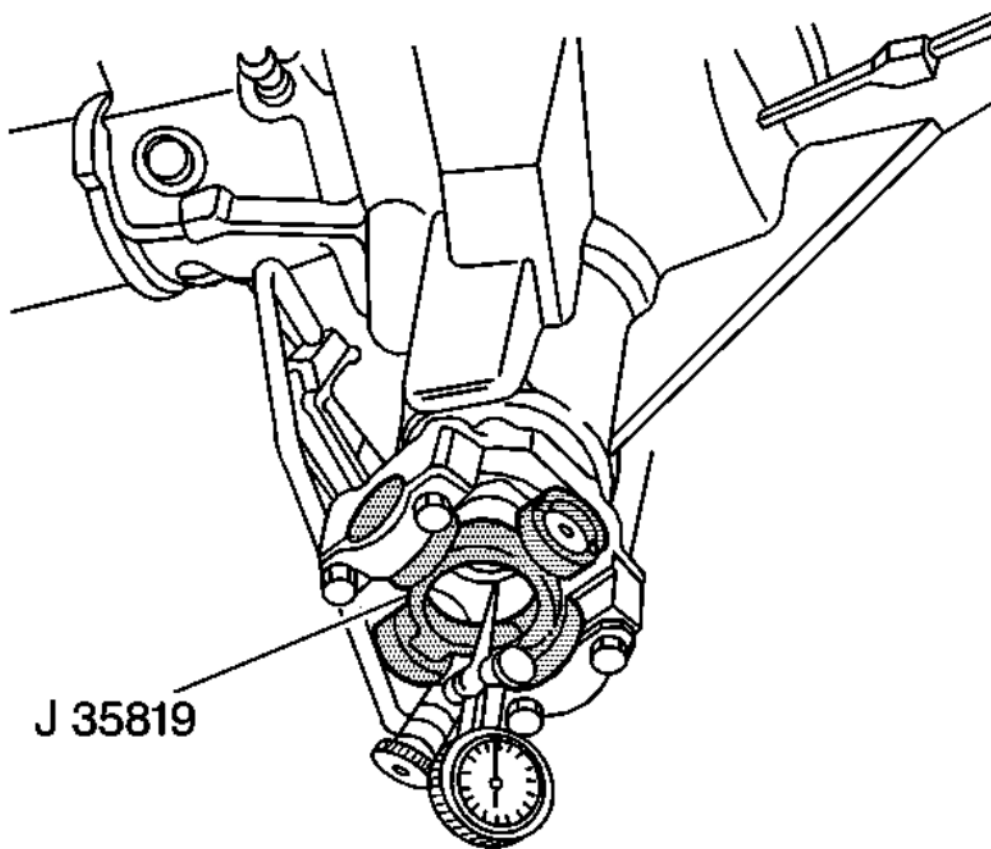


Fig. 7: Automatic Transmission Service Seal Kit 24256112
 Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit.
 Callouts without boxes are shown for relationship purposes only.

A/Trans Service Seal Kit 24256112

Callout	Quantity	Component Name
58	1	Front Differential Drive Pinion Gear Lube Dam
61	1	Front Wheel Drive Shaft Oil Seal Assembly
224	1	Front Differential Drive Pinion Gear Lube Dam
226	1	Front Wheel Drive Shaft Oil (RHS) Seal Assembly

Control Valve Body Kit 24256111

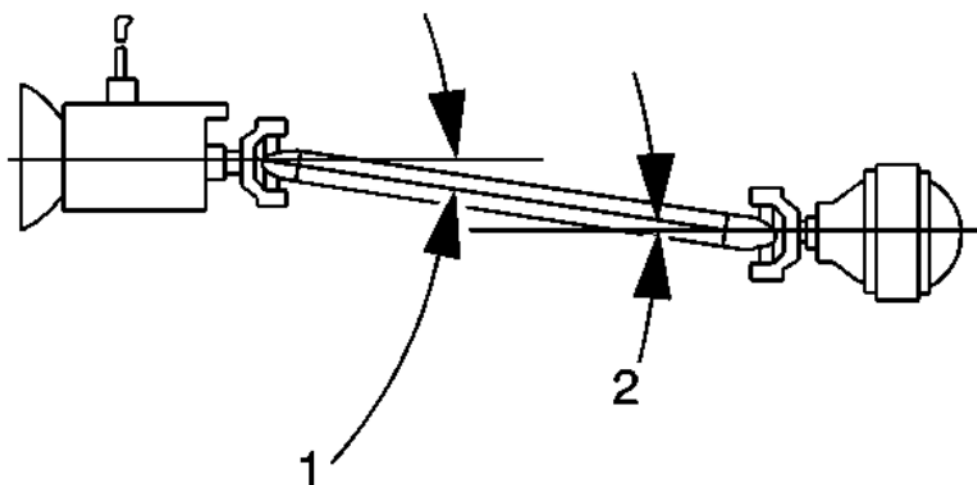


Fig. 8: Control Valve Body Kit 24256111
 Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit.
 Callouts without boxes are shown for relationship purposes only.

Control Valve Body Kit 24256111

Callout	Quantity	Component Name
5	1	Control Valve Body Cover Assembly Gasket
10	1	Control Valve Body Cover Wiring Connector Hole Seal
16	1	Control Solenoid (w/Body and TCM) Filter Plate Assembly
22	1	Torque Converter Housing Outer Seal
33	1	A/Trans Case Cover Gasket
65	1	1-2-3-4 Clutch Fluid Passage Seal

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201	1	A/Trans Fluid Filter Assembly
301	1	Control Valve Channel Upper Plate Assembly
309	1	Control Valve Upper Body Spacer Plate Assembly
310	2	Control Valve Upper Body Spacer Plate Retainer
311	10	Control Valve Body Ball Check Valve
313	1	Control Valve Lower Body Spacer Plate Assembly

A/Trans Service Seal Kit 24240103

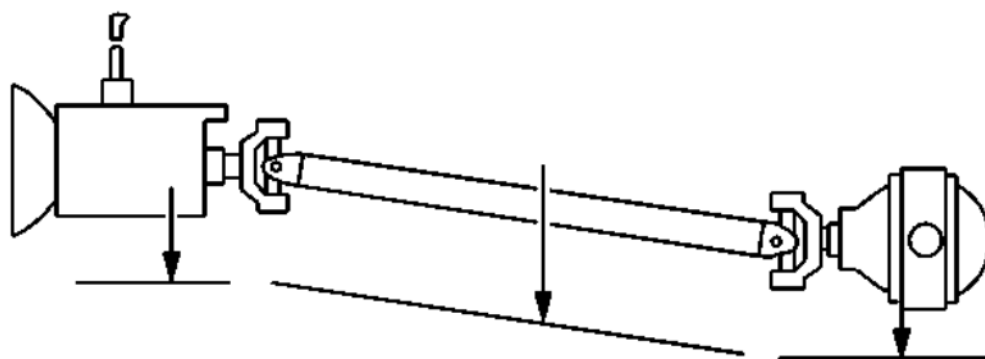


Fig. 9: Automatic Transmission Service Seal Kit 24240103

Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit. Callouts without boxes are shown for relationship purposes only.

A/Trans Service Seal Kit 24240103

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Callout	Quantity	Component Name
205	1	Front Differential Transfer Drive Gear Support Seal Assembly
213	1	Front Differential Transfer Drive Gear Support Seal
214	1	Drive Sprocket Thrust Washer
219	1	Drive Sprocket Thrust Washer
220	1	Drive Sprocket Thrust Washer
404	4	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
419	1	3-5-Reverse Clutch Piston Inner Seal
420	1	3-5-Reverse Clutch Piston Inner Seal
421	1	3-5-Reverse Clutch Piston Dam Seal
430	1	4-5-6 Clutch Piston Inner Seal
431	1	4-5-6 Clutch Piston Outer Seal
432	1	4-5-6 Clutch Piston Outer Seal
X	2	Trans Fluid Cooler Pipe Washer (Not Shown)

A/Trans Service Seal Kit 2 24240103

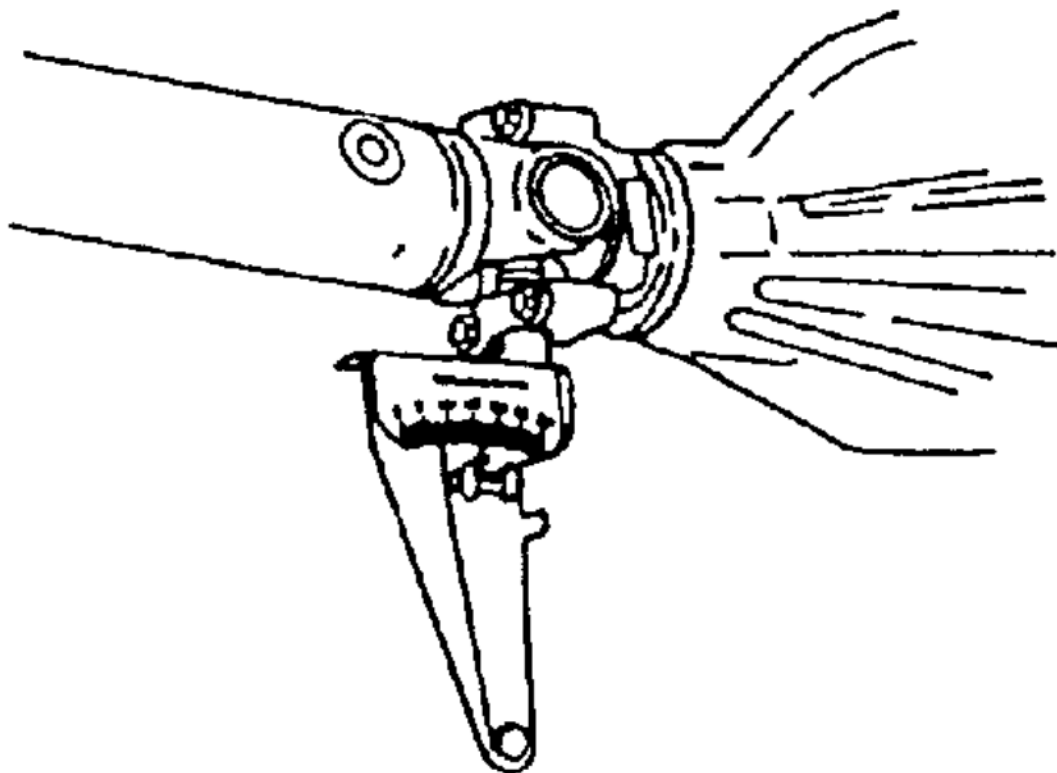


Fig. 10: Automatic Transmission Service Seal Kit 2 24240103

Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit. Callouts without boxes are shown for relationship purposes only.

A/Trans Service Seal Kit 2 24240103

Callout	Quantity	Component Name
4	1	Fluid Level Indicator Tube Seal - Model Dependent
54	1	A/Trans Fluid Trough O-Ring Seal
212	1	Front Differential Transfer Drive Gear Support Fluid Passage Tube Gasket
402	1	ISS O-Ring Seal
508	1	Manual Shift Shaft Seal

510

1

Manual Shift Shaft Pin

A/Trans Service Seal Kit 24240106

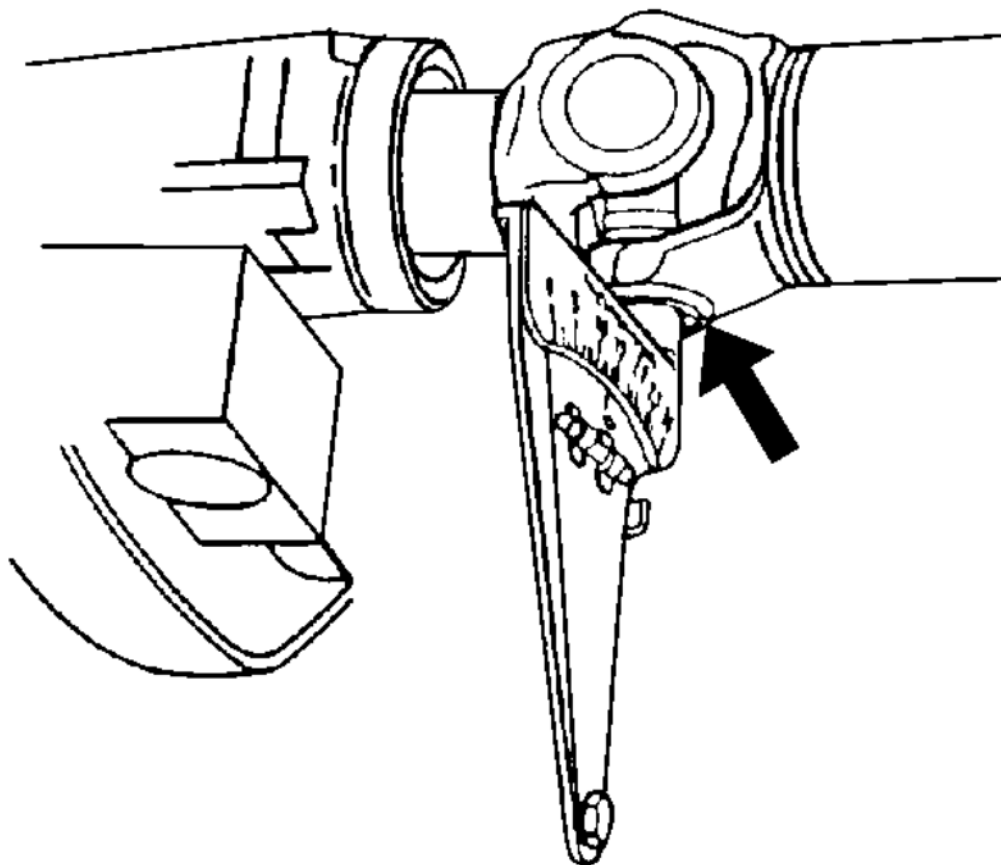


Fig. 11: Automatic Transmission Service Seal Kit
 Courtesy of GENERAL MOTORS COMPANY

NOTE: Callouts with boxes around them indicate part is included in the service kit. Callouts without boxes are shown for relationship purposes only.

A/Trans Service Seal Kit 24240106

Callout	Quantity	Component Name
57	1	A/Trans Pump Fluid Outlet Seal Assembly
202	1	Filter Neck Seal
206	1	Front Differential Transfer Drive Gear Support Torque Converter Fluid Seal Assembly

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225	1	Torque Converter Fluid Seal Assembly
X	1	Front Wheel Drive Shaft Oil Seal Protector (Not Shown)