

2018 TRANSMISSION**Automatic Transmission - 9T65 (M3V) - Specifications - Traverse****SPECIFICATIONS****TEMPERATURE VERSUS RESISTANCE**

Temperature	Resistance
170Â°C (338Â°F)	45.43 to 49.43 ohms
150Â°C (302Â°F)	67.68 to 71.68 ohms
140Â°C (284Â°F)	83.57 to 87.57 ohms
130Â°C (266Â°F)	104.1 to 108.1 ohms
120Â°C (248Â°F)	130.9 to 134.9 ohms
110Â°C (230Â°F)	166.3 to 170.3 ohms
100Â°C (212Â°F)	213.5 to 217.5 ohms
90Â°C (194Â°F)	277.5 to 281.5 ohms
80Â°C (176Â°F)	365.2 to 369.2 ohms
70Â°C (158Â°F)	487.3 to 491.3 ohms
60Â°C (140Â°F)	660 to 664 ohms
50Â°C (122Â°F)	908 to 912 ohms
40Â°C (104Â°F)	1.272 k to 1.276 kohms
30Â°C (86Â°F)	1.814 k to 1.818 kohms
25Â°C (77Â°F)	2.183 k to 2.187 kohms
20Â°C (68Â°F)	2.641 k to 2.645 kohms
15Â°C (59Â°F)	3.213 k to 3.217 kohms
10Â°C (50Â°F)	3.932 k to 3.936 kohms
0Â°C (32Â°F)	5.995 k to 5.999 kohms
-5Â°C (23Â°F)	7.476 k to 7.480 kohms
-10Â°C (14Â°F)	9.386 k to 9.390 kohms
-15Â°C (5Â°F)	11.869 k to 11.872 kohms
-20Â°C (-4Â°F)	15.124 k to 15.128 kohms
-25Â°C (-13Â°F)	19.473 k to 19.477 kohms
-30Â°C (-22Â°F)	25.153 k to 25.157 kohms
-35Â°C (-31Â°F)	32.858 k to 32.862 kohms
-40Â°C (-40Â°F)	43.319 k to 43.322 kohms

FASTENER SPECIFICATIONS (OFF-VEHICLE)**Single Use Non-Threaded Fasteners/Components****NOTE:**

All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.

Application
1-2-3-4 Low and Reverse Clutch Fluid Passage Seal
1-2-3-4-5-6 Clutch Piston Seal
1-2-3-4-5-6 Clutch Piston Inner Seal
3-5-Reverse Clutch Piston Dam Seal
3-5-Reverse Clutch Piston Inner Seal
3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
4-5-6 Clutch Piston Dam Seal

NOTE:

All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.

Application
4-5-6 Clutch Piston Inner Seal
4th Clutch Piston Inner Seal
4th Clutch Piston Outer Seal
Accumulator Bypass Valve Seal
Automatic Transmission Case Seal
Automatic Transmission Fluid Filter
Automatic Transmission Fluid Filter Seal
Automatic Transmission Fluid Pump Gasket
Automatic Transmission Fluid Pump Seal
Automatic Transmission Fluid Pump Shaft Seal
Body Side Wiring Harness Opening Seal
Control Valve Body Gasket
Control Valve Body Spacer Plate Retainer
Drive Link Lubricant Fluid Seal
Fluid Transfer Pipe Seal
Front Wheel Drive Shaft Oil Seal
Manual Shaft Detent Lever Hub Pin
Manual Shift Shaft Seal
Park Pawl Actuator Guide Pin
Torque Converter Fluid Seal
Torque Converter Housing Gasket
Turbine Shaft Seal

Single Use Threaded Fastener/Component Tightening Specifications

NOTE:

All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.

Application	Ref No.*	Quantity	Size	Specification
				Metric (English)
Automatic Transmission Fluid Pump Cover Bolt Refer to procedure for tightening sequence and torque values.	211	19	M6 x 25	<u>Transmission Fluid Pump, Front Differential Carrier Baffle, and Front Differential Ring Gear Installation</u>

*Reference number refers to the component callout number in Disassembled Views

Reusable Threaded Fastener Tightening Specifications

NOTE:

All fasteners listed in this table can be reused after removal.

Application	Ref No.*	Quantity	Size	Specification
				Metric (English)
Accumulator Valve Body Bolt	33	2	M4 x.7	2.75 N.m (24 lb in)
Automatic Transmission Auxiliary Fluid Accumulator Bolt	9	3	M8 x 30	8 N.m (71 lb in)

NOTE:

All fasteners listed in this table can be reused after removal.

Application	Ref No.*	Quantity	Size	Specification
				Metric (English)
Automatic Transmission Case Hole Plug	68	1	1/8" - 27 NPTF	12 N.m (106 lb in)
Automatic Transmission Fluid Level Hole Plug	65	1	1/8" - 27 NPTF	12 N.m (106 lb in)
Automatic Transmission Fluid Pan Drain Plug	66	1	1/8" - 27 NPTF	12 N.m (106 lb in)
Automatic Transmission Fluid Filter Cover Bolt	58	3	M6 x 20	9 N.m (80 lb in)
Automatic Transmission Fluid Pump Cover Bolt Refer to procedure for tightening sequence and torque values.	200	22	M6 x 30	<u>Transmission Fluid Pump, Front Differential Carrier Baffle, and Front Differential Ring Gear Installation</u>
Automatic Transmission Fluid Pump Cover Bolt	312	5	M6 x 25	9 N.m (80 lb in)
Automatic Transmission Input Speed Sensor Bolt	69	1	M6 x 25	9 N.m (80 lb in)
Automatic Transmission Output Speed Sensor Bolt	711	1	M6 x 25	9 N.m (80 lb in)
Control Valve Body Bolt Refer to procedure for tightening sequence and torque values.	24	4	M5 x 55	<u>Control Valve Body Assembly Installation</u>
Control Valve Body Bolt Refer to procedure for tightening sequence and torque values.	25	1	M5 x 37	<u>Control Valve Body Assembly Installation</u>
Control Valve Body Bolt Refer to procedure for tightening sequence and torque values.	5	3	M5 x 65	<u>Control Valve Body Assembly Installation</u>
Control Valve Body Bolt	6	9	M5 x 85	<u>Control Valve Body Assembly Installation</u>
Control Valve Body Bolt	7	8	M5 x 94	<u>Control Valve Body Assembly Installation</u>
Control Valve Body Cover Bolt	1	6	M6 x 30	<u>Control Valve Body Cover Installation</u>
Control Valve Body Cover Stud Refer to procedure for tightening sequence and torque values.	2	6	M6 x 30	<u>Control Valve Body Cover Installation</u>
Control Valve Solenoid Body Bolt	30	1	-	9 N.m (80 lb in)
Control Valve Solenoid Body Bolt	433	4	M5 x 55	8 N.m (71 lb in)
Control Valve Solenoid Body Bolt	499	2	M5 x 21	8 N.m (71 lb in)
Fluid Transfer Pipe Bolt	21	1	M6 x 25	8 N.m (71 lb in)

NOTE:

All fasteners listed in this table can be reused after removal.

Application	Ref No.*	Quantity	Size	Specification
				Metric (English)
Front Differential Carrier Baffle Bolt	204	2	M6 x 18.5	9 N.m (80 lb in)
Front Differential Carrier Baffle Bolt - Case	62	2	M6 x 18.5	9 N.m (80 lb in)
Input Shaft Support Bolt	55	3	M6 x 50	12 N.m (106 lb in)
Manual Shift Detent Lever Spring Bolt	20	1	M6 x 25	9 N.m (80 lb in)
Overdrive and Reaction Carrier Bolt	535	3	M6 x 35	9 N.m (80 lb in)
Automatic Transmission Case Hole Plug	76	1	M8 x 16.25	40 N.m (30 lb ft)
Automatic Transmission Fluid Pressure Test Hole Plug	53	1	1/8" - 27 NPTF	12 N.m (106 lb in)
Torque Converter and Differential Housing Bolt Refer to procedure for tightening sequence and torque values.	16	14	M8 x 30	<u>Torque Converter Housing with Fluid Pump Assembly Installation</u>

*Reference number refers to the component callout number in Disassembled Views

FASTENER SPECIFICATIONS (ON-VEHICLE)

Single Use Non-Threaded Fasteners/Components

NOTE:

All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.

Application
Automatic Transmission Fluid Filter
Front Wheel Drive Shaft Oil Seal
Input Shaft Speed Sensor Seal
Manual Shaft Detent Lever Hub Pin
Manual Shift Shaft Seal
Park Pawl Actuator Guide Pin
Torque Converter Fluid Seal
Transmission Oil Drain Plug Seal
Transmission Oil Fill Plug and or O-ring

Single Use Threaded Fastener/Component Tightening Specifications

NOTE:

All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.

Application	Specification
	Metric (English)
Transmission Mount Strut Bracket to Transmission Bolt	
• First Pass:	100 N.m (74 lb ft)

NOTE:

All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.

Application	Specification
	Metric (English)
• Final Pass:	45-60 Degrees
Transmission Rear Mount Bracket to Transmission Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	45-60 Degrees
Transmission Rear Mount Bolt	
• First Pass:	100 N.m (74 lb ft)
• Final Pass:	95-105 Degrees

Reusable Threaded Fastener Tightening Specifications

NOTE:

All fasteners listed in this table can be reused after removal.

Application	Specification
	Metric (English)
Automatic Transmission Case Hole Plug	12 N.m (106 lb ft)
Automatic Transmission Fluid Pan Drain Plug	12 N.m (106 lb ft)
Automatic Transmission Fluid Pressure Test Hole Plug	12 N.m (106 lb ft)
Automatic Transmission Range Selector Lever Nut	30 N.m (22 lb ft)
Automatic Transmission Range Selector Lever Cable Bolt	9 N.m (80 lb in)
Automatic Transmission Range Selector Lever Cable Bracket Bolt	22 N.m (16 lb ft)
Control Valve Body Cover Bolt	<u>Control Valve Body Cover Replacement</u>
Electrical Harness Bracket Nut	9 N.m (80 lb in)
Engine Mount Brace Bolt	22 N.m (16 lb ft)
Fluid Filler Plug	40 N.m (30 lb ft)
Grommet Nut	9 N.m (80 lb ft)
Heater Water Auxiliary Pump Bolt	22 N.m (16 lb ft)
Input Speed Sensor Bolt	9 N.m (80 lb ft)
Output Speed Sensor Bolt	9 N.m (80 lb ft)
Torque Converter to Flexplate Bolt	60 N.m (44 lb ft)
Transmission Bolt	58 N.m (43 lb ft)
Transmission Control Bolt	9 N.m (80 lb ft)
Transmission Mount Bolt	58 N.m (43 lb ft)
Transmission Mount to Bracket Through Bolt	100 N.m (74 lb ft)
Transmission Mount Transmission Side Bolt	100 N.m (74 lb ft)
Transmission Mount Through Bolt	100 N.m (74 lb ft)

APPROXIMATE FLUID CAPACITIES

Application	Specification	
	Metric	English
9T45/50/60/65		
• Valve Body Cover Removal - Approximate Capacity	2.0 - 3.0 liters	2.1 - 3.2 quarts
• Fluid Change - Drain Plug - Approximate Capacity	5.0 - 6.0 liters	5.3 - 6.3 quarts
• Overhaul - Approximate Capacity	8.5 - 9.5 liters	9.0 - 10 quarts

TRANSMISSION GENERAL SPECIFICATIONS

Name	9T45/9T50/9T60/9T65
RPO Codes	M3D, M3E, M3F, M3G, M3H, M3T, M3V, M3U, M3W
Production Location	Mexico
Transmission Drive	Front Wheel Drive
Reverse Gear Ratio	2.96
1st Gear Ratio	4.689
2nd Gear Ratio	3.306
3rd Gear Ratio	3.012
4th Gear Ratio	2.446
5th Gear Ratio	1.923
6th Gear Ratio	1.446
7th Gear Ratio	1.000
8th Gear Ratio	0.747
9th Gear Ratio	0.617
Effective Final Drive Gear Ratio	2.89/3.17/3.32/3.47/3.63/3.80
Torque Converter Size - Diameter of Torque Converter Turbine	228 mm
Pressure Taps Line	Pressure
Transmission Fluid Type	DEXRON VIA®
Transmission Fluid Capacity	8.82 L (9 qt)
Transmission Type: 9	9-speed FWD Transaxle
Transmission Type: T	Transverse Mount
Transmission Type: 45/50/60/65	Product Series
Position Quadrant	P, R, N, D, * *(Refer to the applicable owner's manual)
Case Material	Die Cast Aluminum
Transmission Net Weight	95.9 kg (211 lbs)
Maximum Trailer Towing Capacity	9T45 - 1743 kg (3842 lbs) 9T50 - 2598 kg (5727 lbs) 9T60 - 3080 kg (6790 lbs) 9T65 - 2473 kg (5452 lbs)
Maximum Gross Vehicle Weight (GVW)	9T45 - 2400 kg (5291 lbs) 9T50 - 2730 kg (6019 lbs) 9T60 - 2730 kg (6019 lbs) 9T65 - 2930 kg (6460 lbs)

ADHESIVES, FLUIDS, LUBRICANTS, AND SEALERS

Application	Type of Material	GM Part Number	
		United States	Canada

Application	Type of Material	GM Part Number	
		United States	Canada
Automatic Transmission Fluid	DEXRON®VI	88865601	19367328
Torque Converter Bolt	Threadlocker	19333511	10953489

RANGE REFERENCE

Range	Gear	1-2-3-4-5-6 Clutch	2-9 Clutch	3-8 Clutch	4th Clutch	5-7-Reverse Clutch	6-7-8-9 Clutch	Single One Way Clutch (SOWC)
Park	P	-	-	-	-	-	-	-
Reverse	R	-	-	-	-	G	-	Holding
Neutral	N	-	-	-	-	-	-	O
Drive	1st	G	-	-	-	-	-	-
	2nd	Applied	Applied	-	-	-	-	-
	3rd	Applied	-	Applied	-	-	-	-
	4th	Applied	-	-	Applied	-	-	-
	5th	Applied	-	-	-	Applied	-	-
	6th	Applied	-	-	-	-	Applied	-
	7th	-	-	-	-	Applied	Applied	-
	8th	-	-	Applied	-	-	Applied	-
	9th	-	Applied	-	-	-	Applied	-
O = On but not carrying a load G = Garage-shift element, on and carrying load								

TRANSMISSION RANGE SENSOR DUTY CYCLES

Transmission Range Sensor Duty Cycle

NOTE: Verify the values with a scan tool.

Transmission Range	Sensor 1 Duty Cycle	Sensor 2 Duty Cycle
Park	8.78 to 21.95%	78.04 to 91.21%
Reverse	41.47 to 47.21%	-
Neutral	54.84 to 59.22%	40.77 to 45.15%
Drive	67.83 to 79.99%	-
Manual	79.99 to 91.19%	-

SHIFT SOLENOID VALVE STATE AND GEAR RATIO

Range	Park	Reverse	Neutral	Drive								
				1st	2nd	3rd	4th	5th	6th	7th	8th	9th
1 - 2 - 3 - 4 - 5 - 6 Shift Solenoid Valve A Command	Off	Off	Off	On	On	On	On	On	On	Off	Off	Off
2 - 9 Shift Solenoid Valve B Command	Off	Off	Off	Off	On	Off	Off	Off	Off	Off	Off	On
3 - 8 Shift Solenoid Valve C Command	Off	Off	Off	Off	Off	On	Off	Off	Off	Off	On	Off

Range	Park	Reverse	Neutral	Drive								
				1st	2nd	3rd	4th	5th	6th	7th	8th	9th
4TH Shift Solenoid Valve D Command	Off	Off	Off	Off	Off	Off	On	Off	Off	Off	Off	Off
5 - 7 Rev Shift Solenoid Valve E Command	Off	On	Off	Off	Off	Off	Off	On	Off	On	Off	Off
1-Reverse and 6-7-8-9 Shift Solenoid Valve F Command	On	On	On	On	Off	Off	Off	Off	On	On	On	On
Clutch Select Solenoid	On	On	On	On	Off	Off	Off	Off	Off	Off	Off	Off
Gear Ratio	Â	2.96	Â	4.689	3.306	3.012	2.446	1.923	1.446	1.000	0.747	0.617
For shift solenoids, "ON" = Solenoid Energized (Pressurized) "OFF" = Solenoid De-energized (No Pressure).												

TRANSMISSION PARTS KIT SPECIFICATIONS

1-2-3-4-5-6 Clutch Plate Assembly

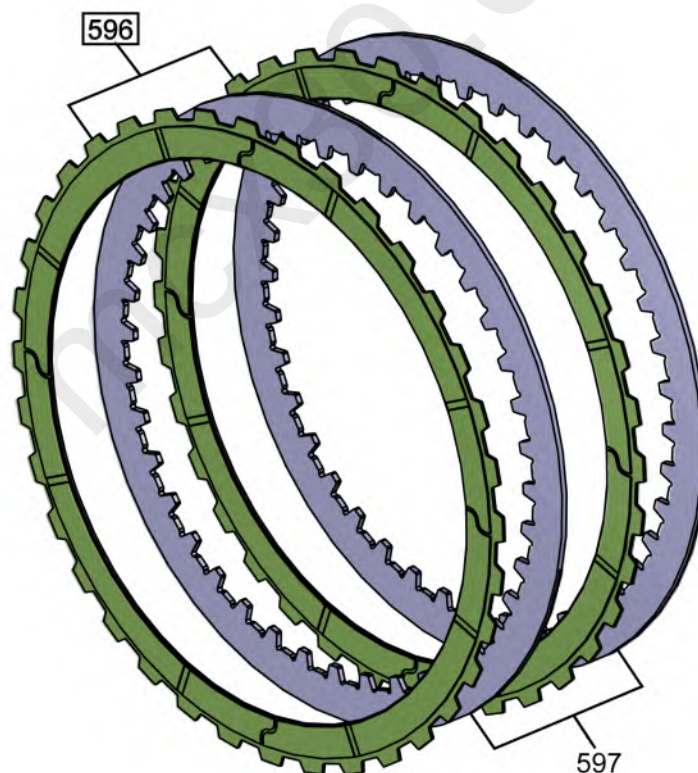


Fig. 1: Exploded View Of 1-2-3-4-5-6 Clutch Plate Assembly Components

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.

1-2-3-4-5-6 Clutch Plate Assembly

Callout	Quantity	Component Name
596	2	1-2-3-4-5-6 Clutch Plate - Friction Plate

2-9 Clutch Plate Assembly

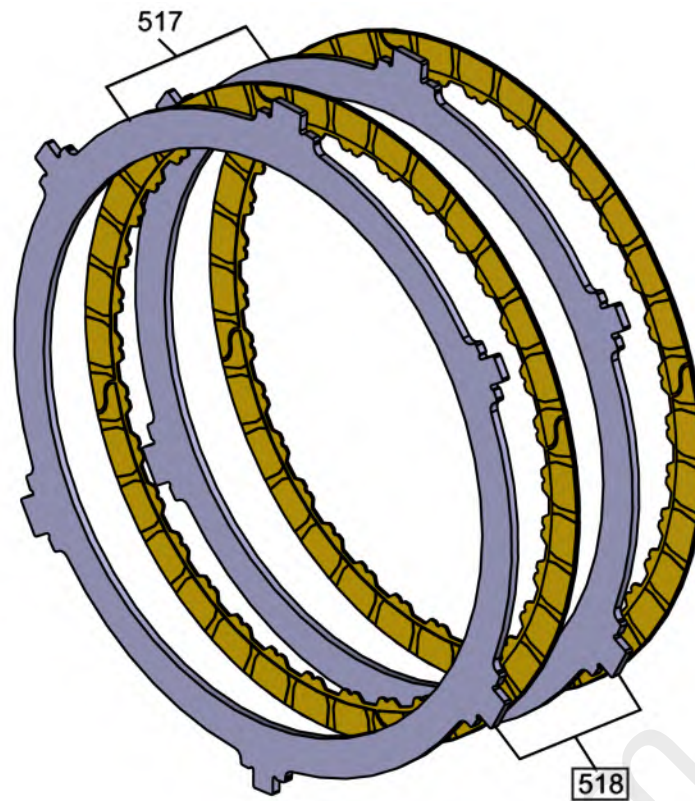


Fig. 2: Exploded View Of 2-9 Clutch Plate Assembly Components

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.

2-9 Clutch Plate Assembly

Callout	Quantity	Component Name
518	2	2-9 Clutch Plate - Friction Plate

3-8 Clutch Plate Assembly

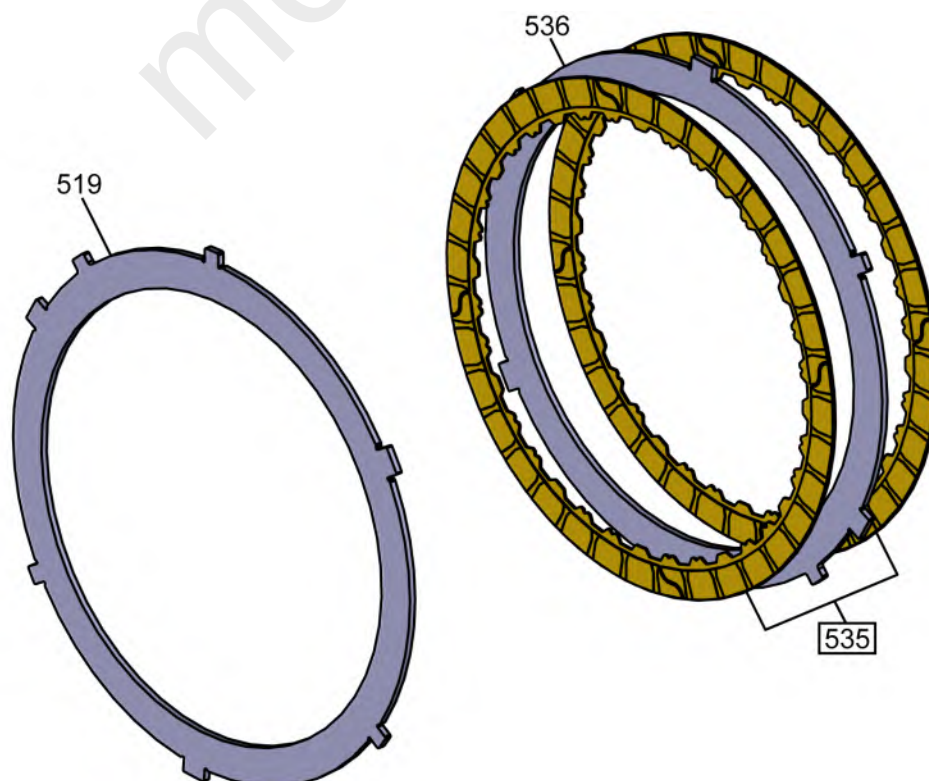


Fig. 3: Exploded View Of 3-8 Clutch Plate Assembly Components
 Courtesy of GENERAL MOTORS COMPANY

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

3-8 Clutch Plate Assembly

Callout	Quantity	Component Name
535	2	3-8 Clutch Plate - Friction Plate

4th Clutch Plate Assembly

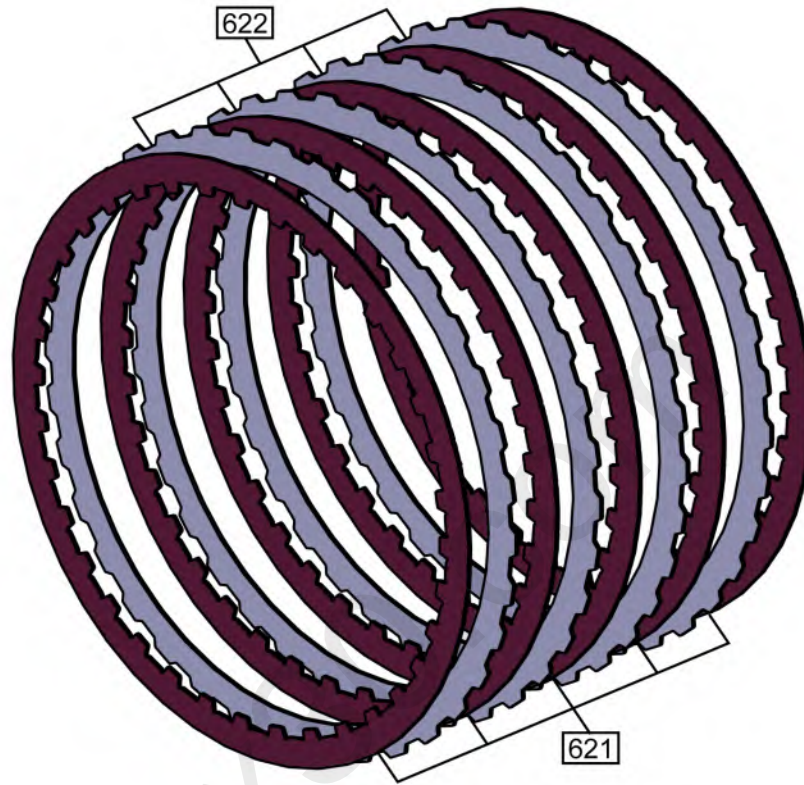


Fig. 4: Exploded View Of 4th Clutch Plate Assembly Components
 Courtesy of GENERAL MOTORS COMPANY

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

4th Clutch Plate Assembly

Callout	Quantity	Component Name
621	5	4th Clutch Plate - Internal Spline
622	4	4th Clutch Plate - External Spline

5-7-Reverse Clutch Plate Assembly

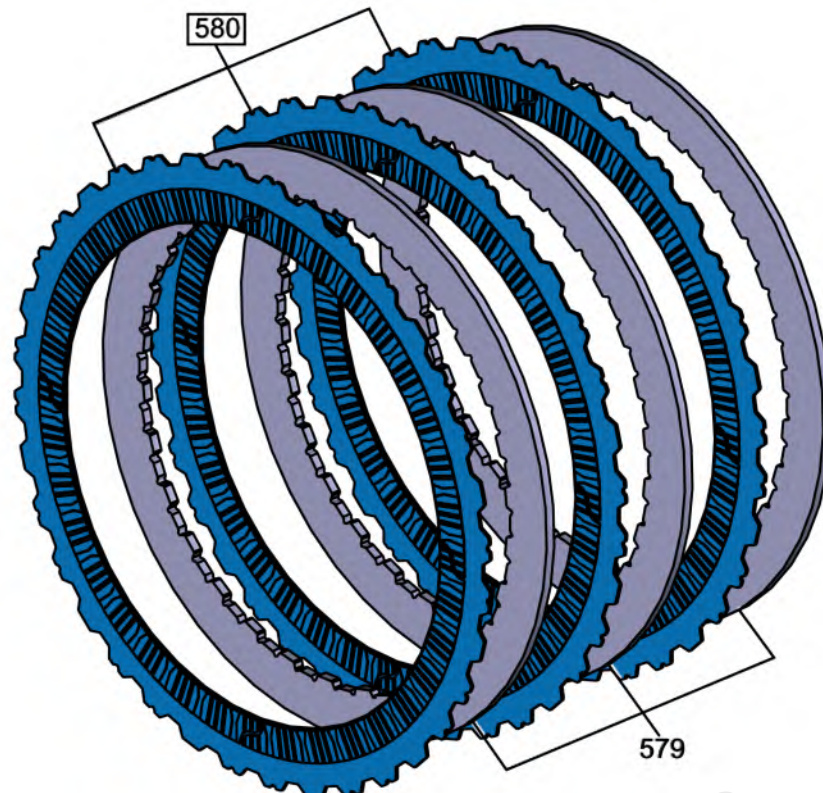


Fig. 5: Exploded View Of 5-7-Reverse Clutch Plate Assembly Components

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.

5-7-Reverse Clutch Plate Assembly

Callout	Quantity	Component Name
580	3	5-7-Reverse Clutch Plate - Friction Plate

6-7-8-9 Clutch Plate Assembly

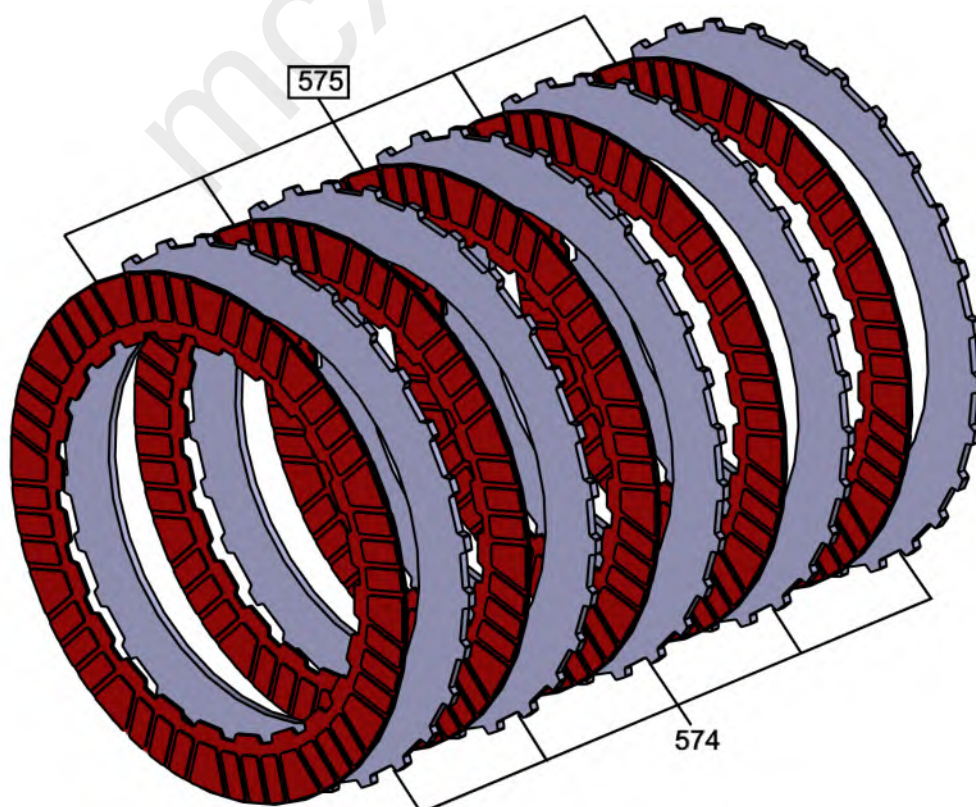


Fig. 6: Exploded View Of 6-7-8-9 Clutch Plate Assembly Components

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.

6-7-8-9 Clutch Plate Assembly

Callout	Quantity	Component Name
575	5	6-7-8-9 Clutch Plate - Friction Plate

Clutch Plate Package

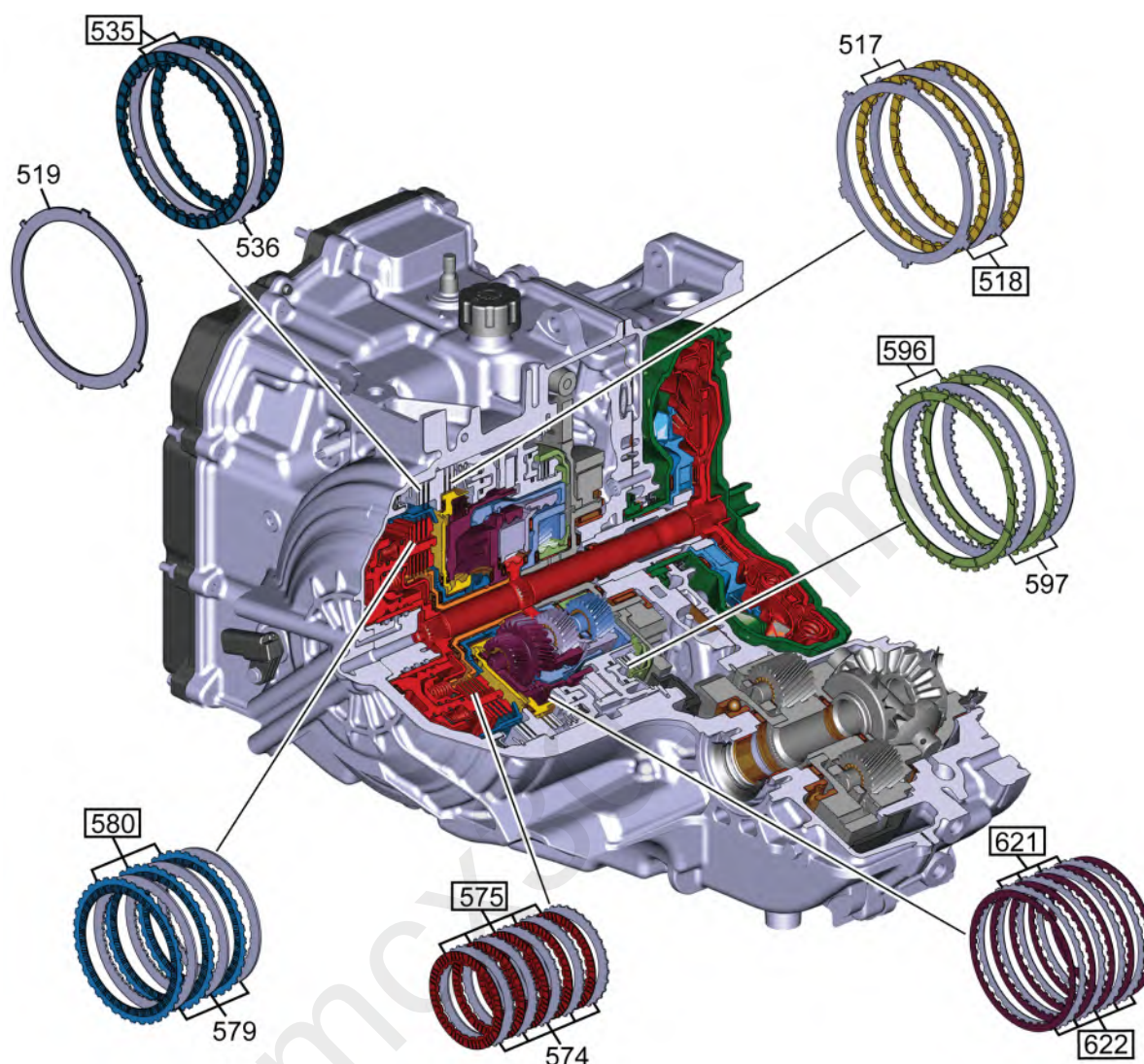


Fig. 7: Exploded View Of Clutch Plate Package Components

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 Package

Callout	Quantity	Component Name
518	2	2-9 Clutch Plate - Friction Plate
535	2	3-8 Clutch Plate - Friction Plate
575	5	6-7-8-9 Clutch Plate - Friction Plate
580	3	5-7-Reverse Clutch Plate - Friction Plate
596	2	1-2-3-4-5-6 Clutch Plate - Friction Plate
621	5	4th Clutch Plate - Internal Spline
622	4	4th Clutch Plate - External Spline

Automatic Transmission Seal Kit

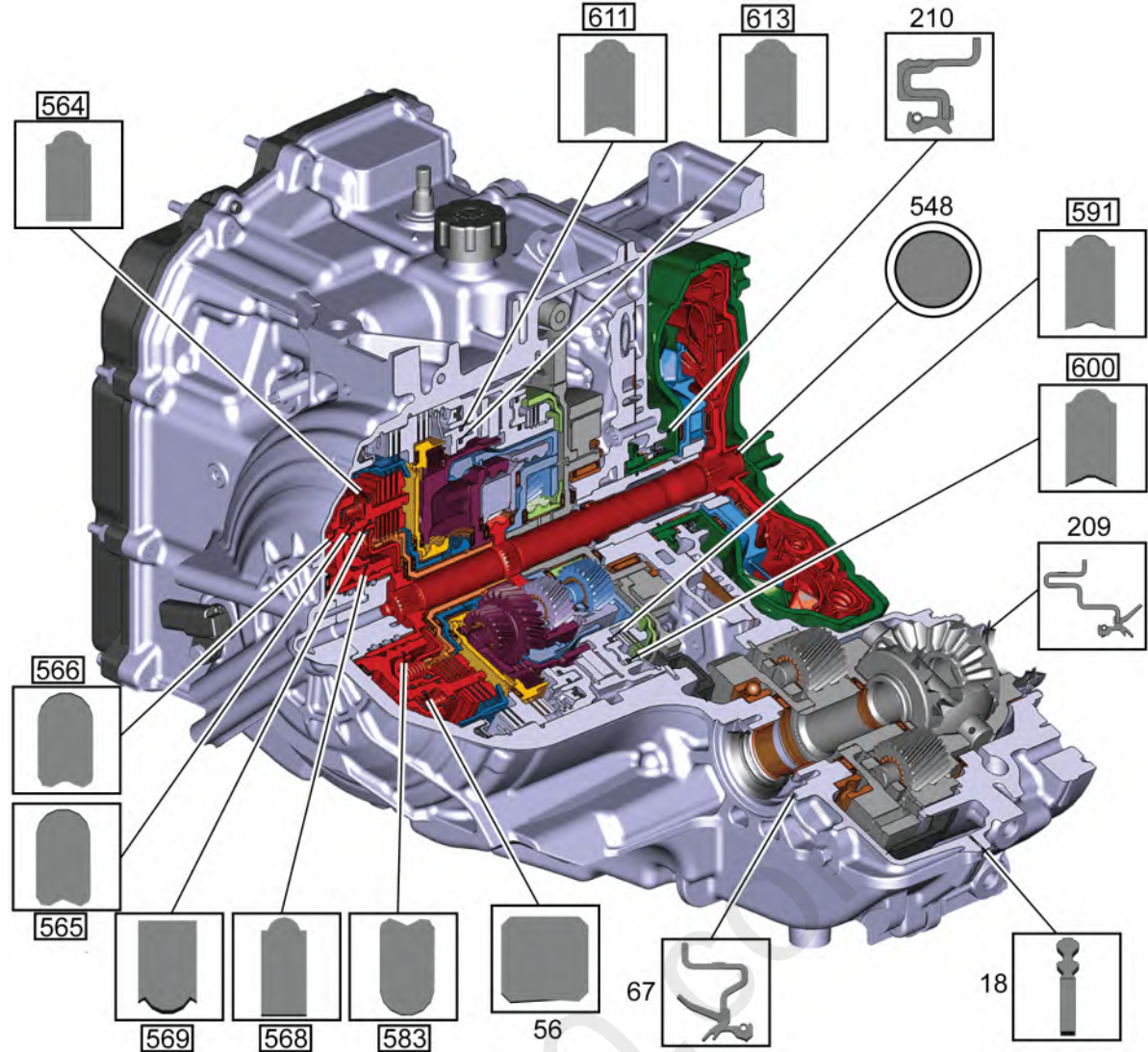


Fig. 8: Exploded View Of Automatic Transmission Seal Kit Components
 Courtesy of GENERAL MOTORS COMPANY

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

Automatic Transmission Seal Kit

Callout	Quantity	Component Name
564	1	3-5-Reverse Clutch Piston Dam Seal
565	1	3-5-Reverse Clutch Piston Inner Seal
566	1	3-5-Reverse Clutch Piston Inner Seal
568	1	4-5-6 Clutch Piston Inner Seal
569	1	4-5-6 Clutch Piston Dam Seal
583	1	4-5-6 Clutch Piston Outer Seal
591	1	1-2-3-4-5-6 Clutch Piston Inner Seal
600	1	1-2-3-4-5-6 Clutch Piston Seal
611	1	4th Clutch Piston Outer Seal
613	1	4th Clutch Piston Inner Seal

Automatic Transmission Retaining Ring Package

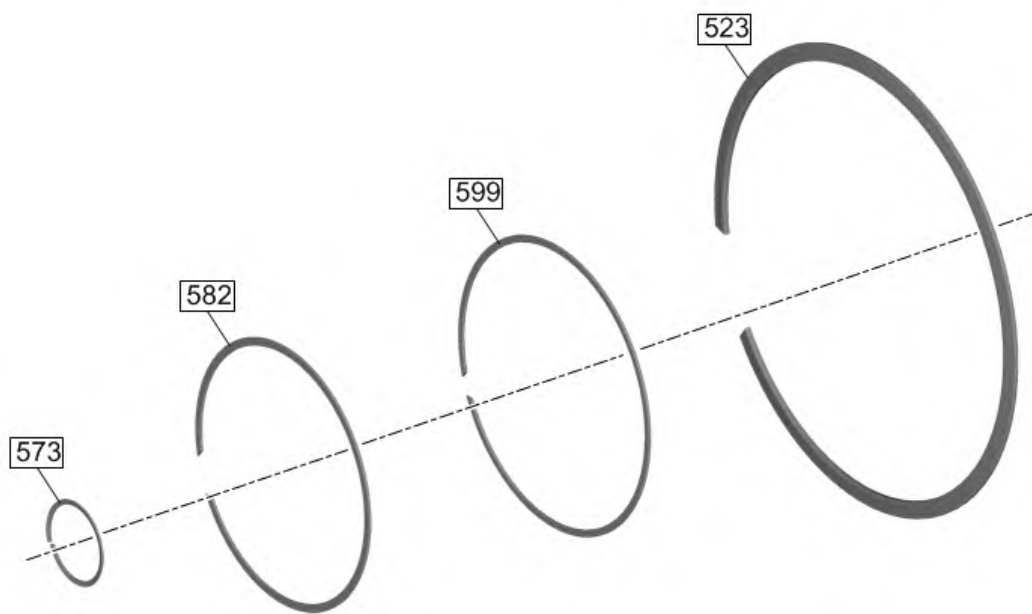


Fig. 9: Exploded View Of Automatic Transmission Retaining Ring Package Components

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.

Automatic Transmission Retaining Ring Package

Callout	Quantity	Component Name
523	1	1-2-3-4-5-6 Clutch Piston Housing Return Ring
573	1	4-5-6 Clutch Dam Retaining Ring
582	1	5-7-Reverse Clutch Backing Plate Retaining Ring
599	1	1-2-3-4-5-6 Clutch Backing Plate Retaining Ring

Control Valve Body Solenoid Kit

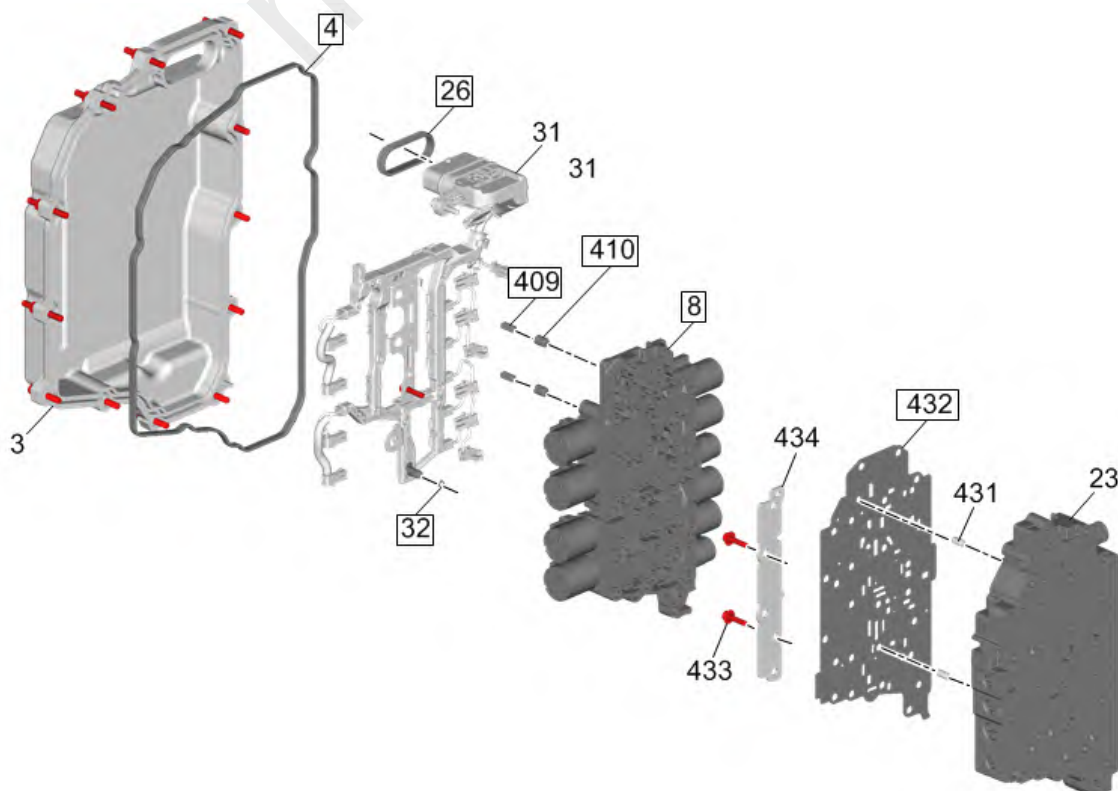


Fig. 10: Exploded View Of Control Valve Body Solenoid Kit Components
 Courtesy of GENERAL MOTORS COMPANY

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 Solenoid Kit

Callout	Quantity	Component Name
4	1	Control Valve Body Cover Gasket
8	1	Control Valve Solenoid Body
26	1	Body Side Wiring Harness Opening Seal
32	1	Automatic Transmission Fluid Temperature Sensor Seal
409	2	Variable Feed Solenoid Clutch Accumulator Piston Spring
410	2	Variable Feed Solenoid Clutch Accumulator Piston
432	1	Control Valve Body Spacer Plate

Control Valve Body Kit

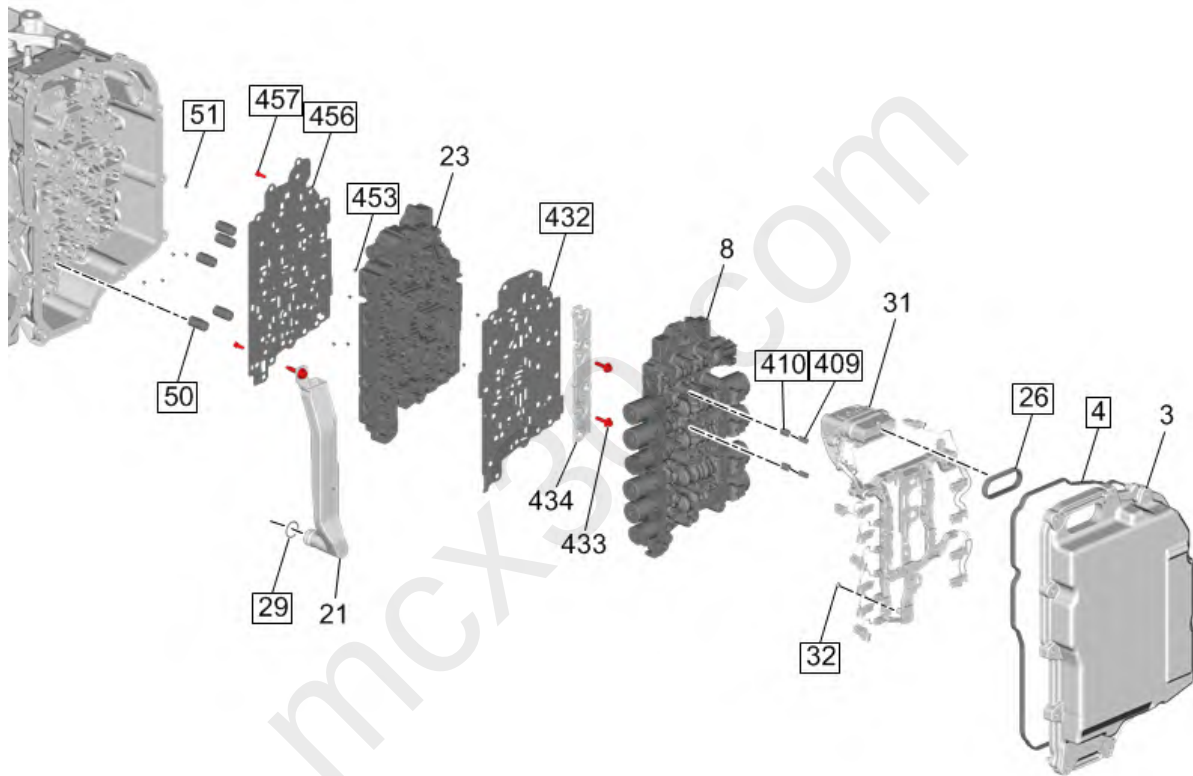


Fig. 11: Exploded View Of Control Valve Body Kit Components
 Courtesy of GENERAL MOTORS COMPANY

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

Callout	Quantity	Component Name
4	1	Control Valve Body Cover Gasket
26	1	Body Side Wiring Harness Opening Seal
29	1	Fluid Transfer Pipe Seal
32	1	Automatic Transmission Fluid Temperature Sensor Seal
50	5	1-2-3-4 Low and Reverse Clutch Fluid Passage Seal
51	QTY	Control Valve Body Ball Check Valve - Model Dependent
409	2	Variable Feed Solenoid Clutch Accumulator Piston Spring
410	2	Variable Feed Solenoid Clutch Accumulator Piston
432	1	Control Valve Body Spacer Plate

Callout	Quantity	Component Name
453	QTY	Control Valve Body Ball Check Valve - Model Dependent
456	1	Control Valve Body Spacer Plate
457	2	Control Valve Body Spacer Plate Retainer

Automatic Transmission Seal Kit

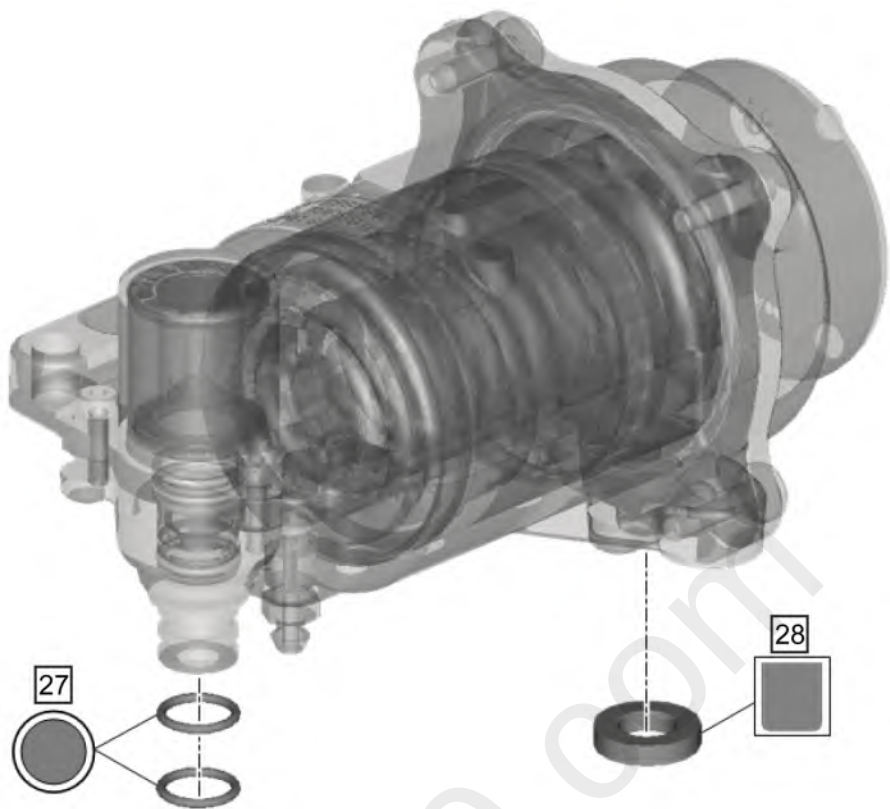


Fig. 12: Exploded View Of Automatic Transmission Seal Kit Components

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.

Automatic Transmission Seal Kit

Callout	Quantity	Component Name
27	2	Automatic Transmission Case Seal
28	1	Accumulator Bypass Valve Seal

Drive & Driven Sprocket (W/LINK) Package

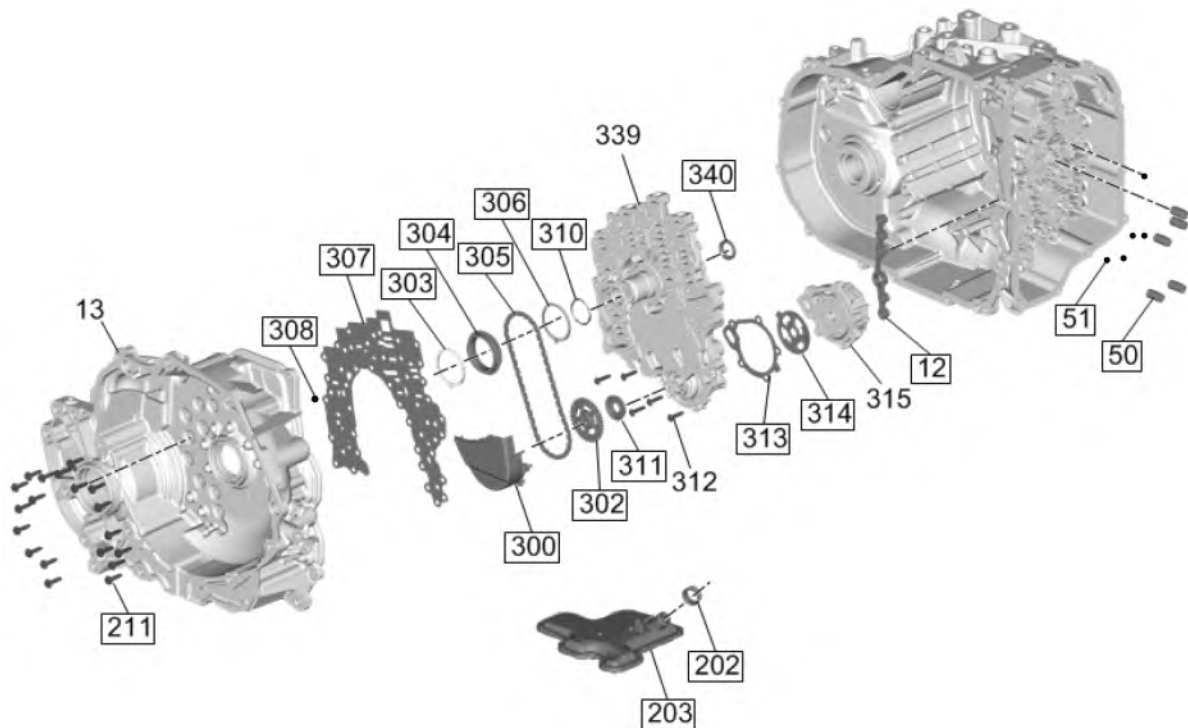


Fig. 13: Exploded View Of Drive & Driven Sprocket (W/LINK) Package Components

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.

Drive & Driven Sprocket (W/LINK) Package

Callout	Quantity	Component Name
12	1	Automatic Transmission Fluid Pump Seal
50	5	1-2-3-4 Low and Reverse Clutch Fluid Passage Seal
51	QTY	Control Valve Body Ball Check Valve - Model Dependent
202	1	Automatic Transmission Fluid Filter Seal
203	1	Automatic Transmission Fluid Filter
211	19	Automatic Transmission Fluid Pump Cover Bolt
300	2	Automatic Transmission Fluid Baffle Bolt
302	1	Driven Sprocket
303	1	Drive Sprocket Thrust Washer - Rear
304	1	Drive Sprocket
305	1	Drive Link
306	1	Drive Sprocket Thrust Washer - Front
307	1	Auxiliary Control Valve Body Spacer Plate
308	1	Automatic Transmission Fluid Pump Ball Check Valve
310	1	Torque Converter Fluid Seal Ring
311	1	Automatic Transmission Fluid Pump Shaft Seal
313	1	Automatic Transmission Fluid Pump Gasket
314	1	Automatic Transmission Fluid Pump Pressure Plate Seal
340	1	Stator Shaft Seal

Automatic Transmission Fluid Pump Seal Kit

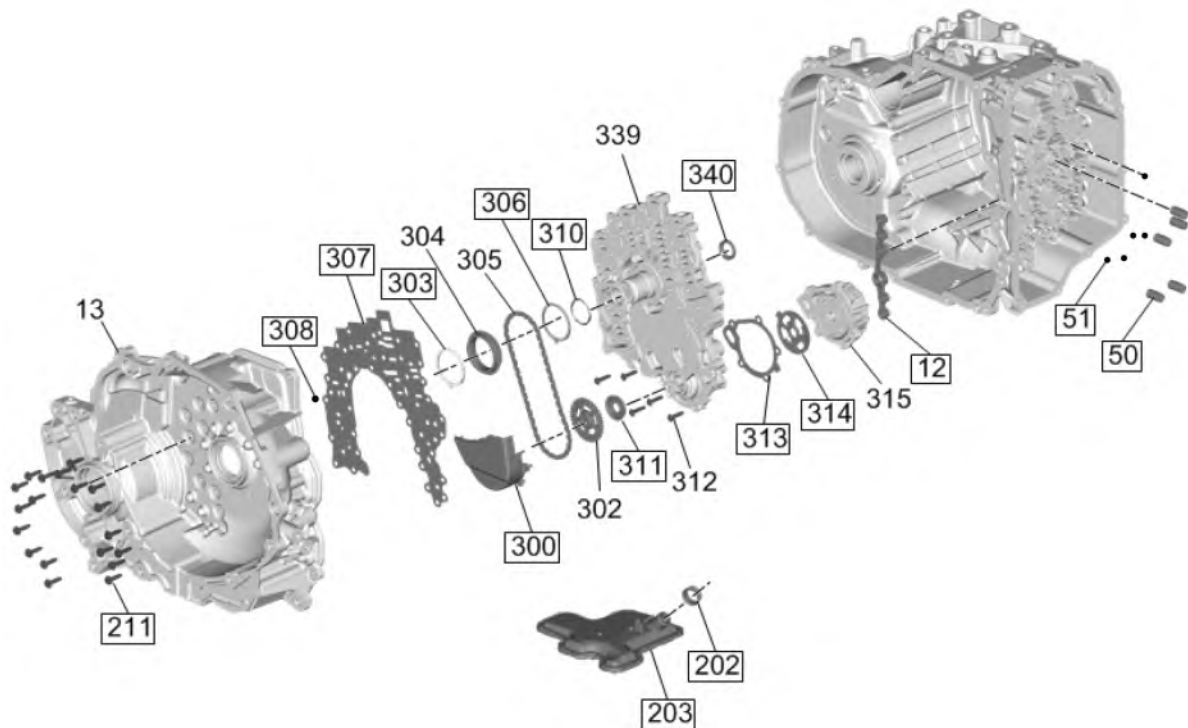


Fig. 14: Exploded View Of Automatic Transmission Fluid Pump Seal Kit Components

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.

Automatic Transmission Fluid Pump Seal Kit

Callout	Quantity	Component Name
12	1	Automatic Transmission Fluid Pump Seal
50	5	1-2-3-4 Low and Reverse Clutch Fluid Passage Seal
51	QTY	Control Valve Body Ball Check Valve - Model Dependent
202	1	Automatic Transmission Fluid Filter Seal
203	1	Automatic Transmission Fluid Filter
211	19	Automatic Transmission Fluid Pump Cover Bolt
300	2	Automatic Transmission Fluid Baffle Bolt
303	1	Drive Sprocket Thrust Washer - Rear
306	1	Drive Sprocket Thrust Washer - Front
307	1	Auxiliary Control Valve Body Spacer Plate
308	1	Automatic Transmission Fluid Pump Ball Check Valve
310	1	Torque Converter Fluid Seal Ring
311	1	Automatic Transmission Fluid Pump Shaft Seal
313	1	Automatic Transmission Fluid Pump Gasket
314	1	Automatic Transmission Fluid Pump Pressure Plate Seal
340	1	Stator Shaft Seal

Automatic Transmission Seal Kit (1 of 6)

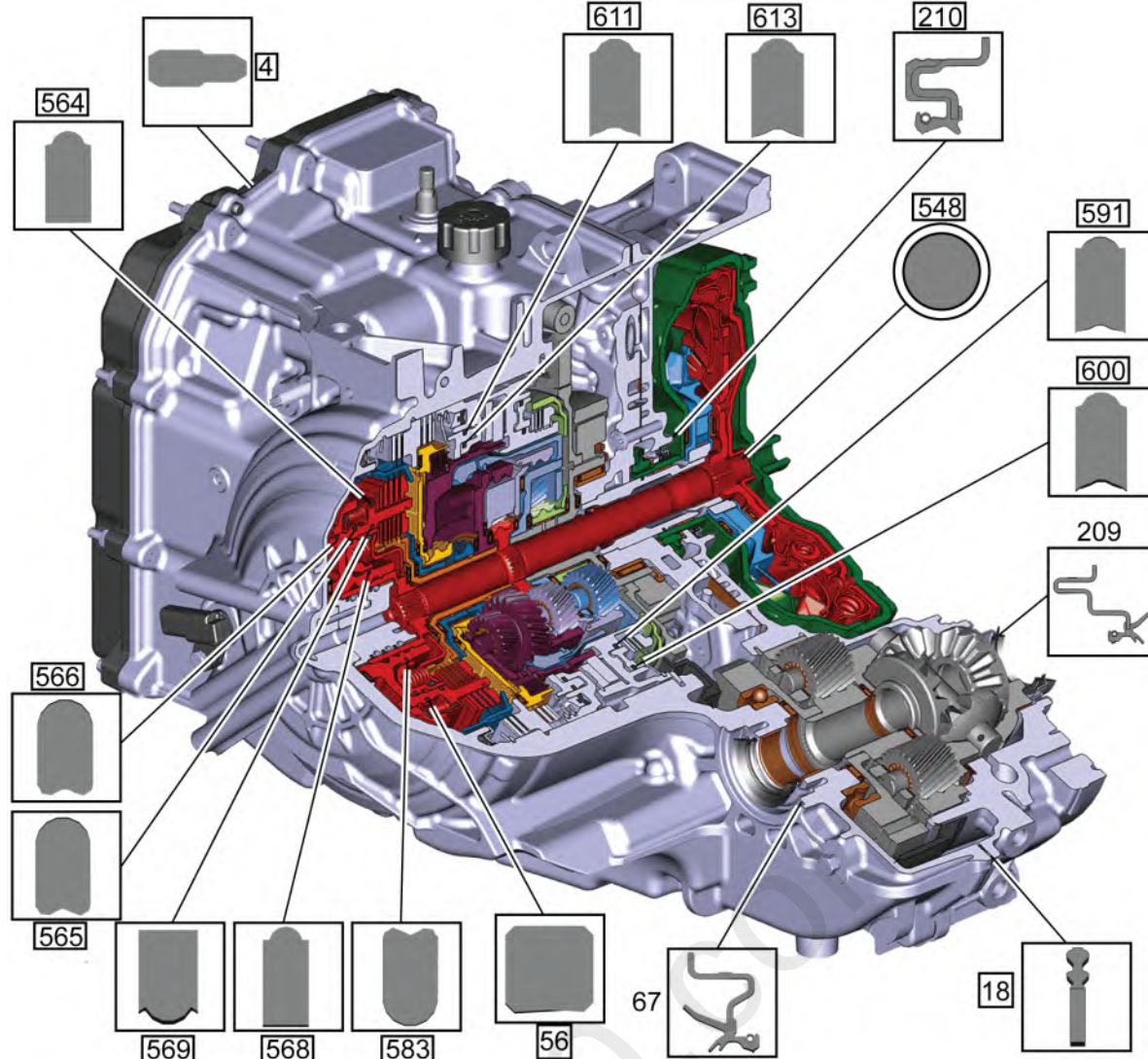


Fig. 15: Exploded View Of Automatic Transmission Seal Kit Components (1 Of 6)

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.

Automatic Transmission Seal Kit (1 of 6)

Callout	Quantity	Component Name
4	1	Control Valve Body Cover Gasket
18	1	Torque Converter Housing Gasket
56	1	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
210	1	Torque Converter Fluid Seal
548	1	Turbine Shaft Seal
564	1	3-5-Reverse Clutch Piston Dam Seal
565	1	3-5-Reverse Clutch Piston Inner Seal
566	1	3-5-Reverse Clutch Piston Inner Seal
568	1	4-5-6 Clutch Piston Inner Seal
569	1	4-5-6 Clutch Piston Dam Seal
583	1	4-5-6 Clutch Piston Outer Seal
591	1	1-2-3-4-5-6 Clutch Piston Inner Seal
600	1	1-2-3-4-5-6 Clutch Piston Seal
611	1	4th Clutch Piston Outer Seal
613	1	4th Clutch Piston Inner Seal

Automatic Transmission Seal Kit (2 of 6)

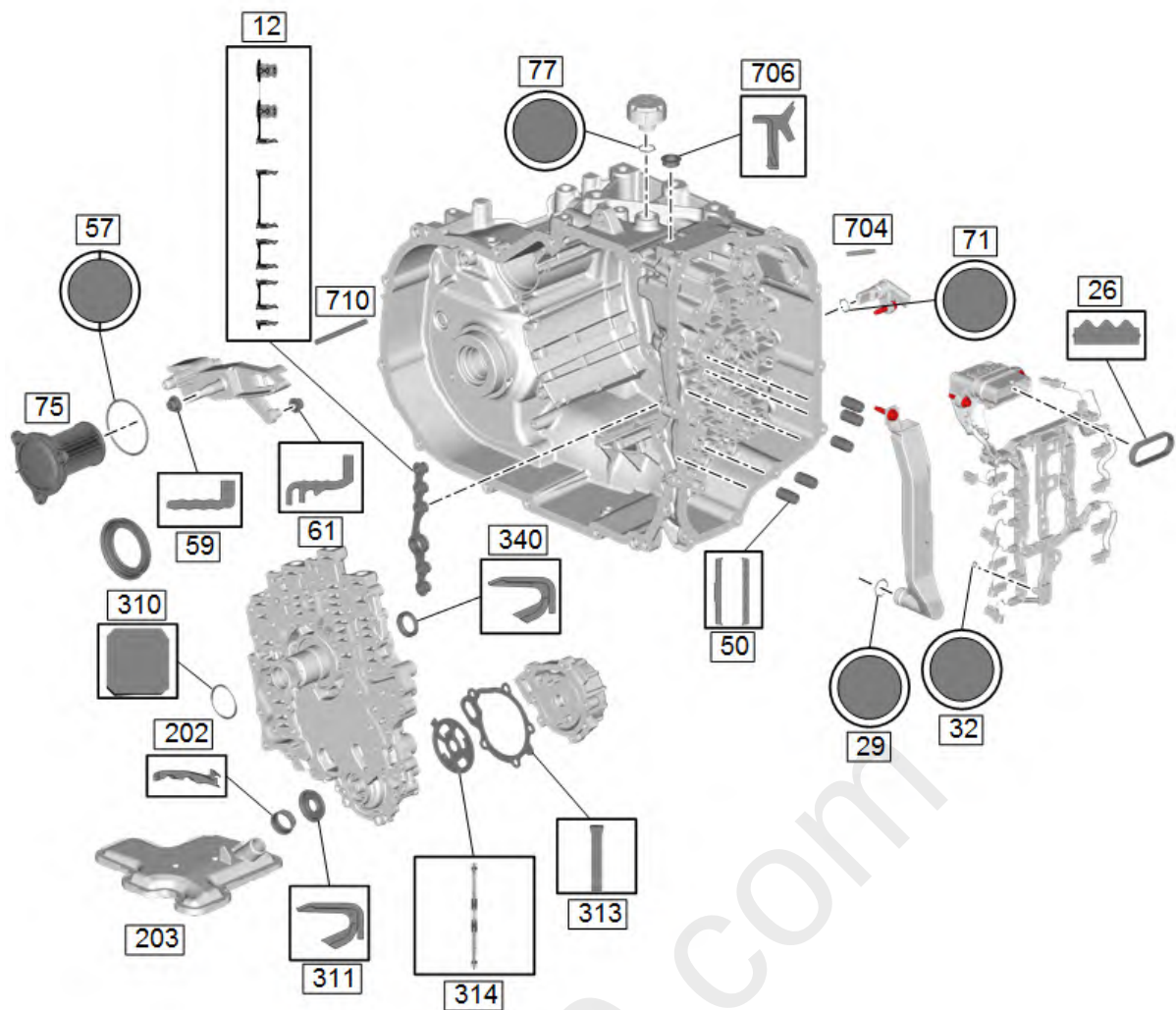


Fig. 16: Exploded View Of Automatic Transmission Seal Kit Components (2 Of 6).
 Courtesy of GENERAL MOTORS COMPANY

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

Automatic Transmission Seal Kit (2 of 6)

Callout	Quantity	Component Name
12	1	Automatic Transmission Fluid Pump Seal
26	1	Body Side Wiring Harness Opening Seal
29	1	Fluid Transfer Pipe Seal
32	1	Automatic Transmission Fluid Temperature Sensor Seal
50	5	1-2-3-4 Low and Reverse Clutch Fluid Passage Seal
57	1	Automatic Transmission Fluid Filter Cap Seal
59	1	Drive Link Lubricant Fluid Seal
61	1	Drive Link Lubricant Fluid Seal
71	1	Automatic Transmission Input Speed Sensor Seal - O-Ring
75	1	Automatic Transmission Fluid Filter
77	1	Automatic Transmission Fluid Filter Cap Seal
202	1	Automatic Transmission Fluid Filter Seal
203	1	Automatic Transmission Fluid Filter
310	1	Torque Converter Fluid Seal Ring
311	1	Automatic Transmission Fluid Pump Shaft Seal
313	1	Automatic Transmission Fluid Pump Gasket
314	1	Automatic Transmission Fluid Pump Pressure Plate Seal
340	1	Stator Shaft Seal
704	1	Park Pawl Actuator Guide Pin

Callout	Quantity	Component Name
706	1	Manual Shift Shaft Seal
710	1	Manual Shift Detent Lever Pin

Automatic Transmission Seal Kit (3 of 6)

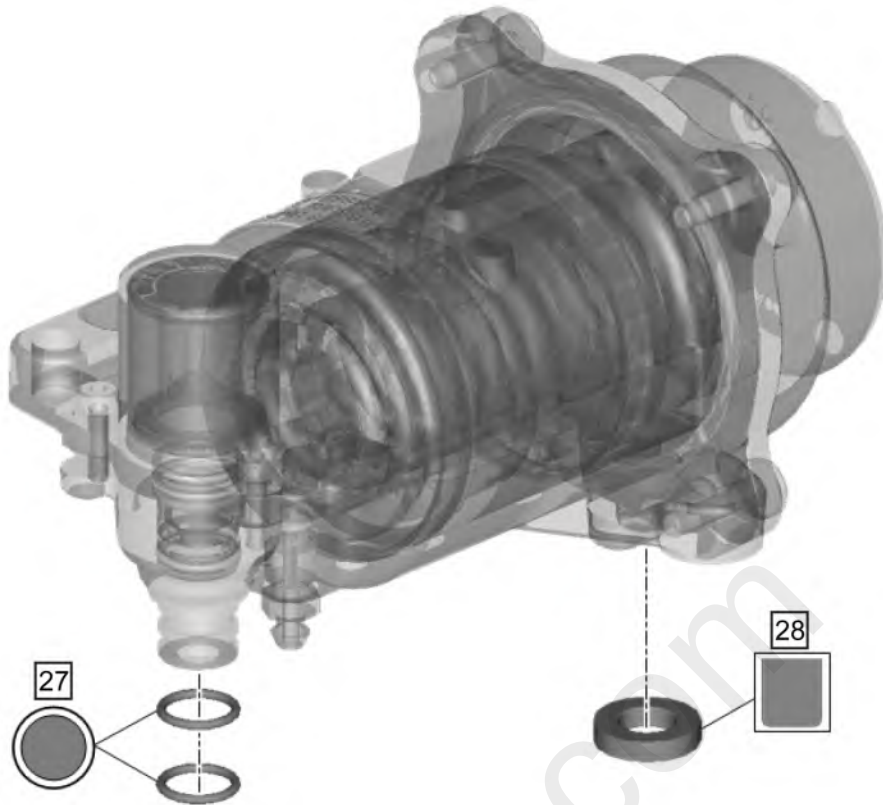


Fig. 17: Exploded View Of Automatic Transmission Seal Kit Components (3 Of 6).

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.

Automatic Transmission Seal Kit (3 of 6)

Callout	Quantity	Component Name
27	2	Automatic Transmission Case Seal
28	1	Accumulator Bypass Valve Seal

Automatic Transmission Seal Kit (4 of 6)

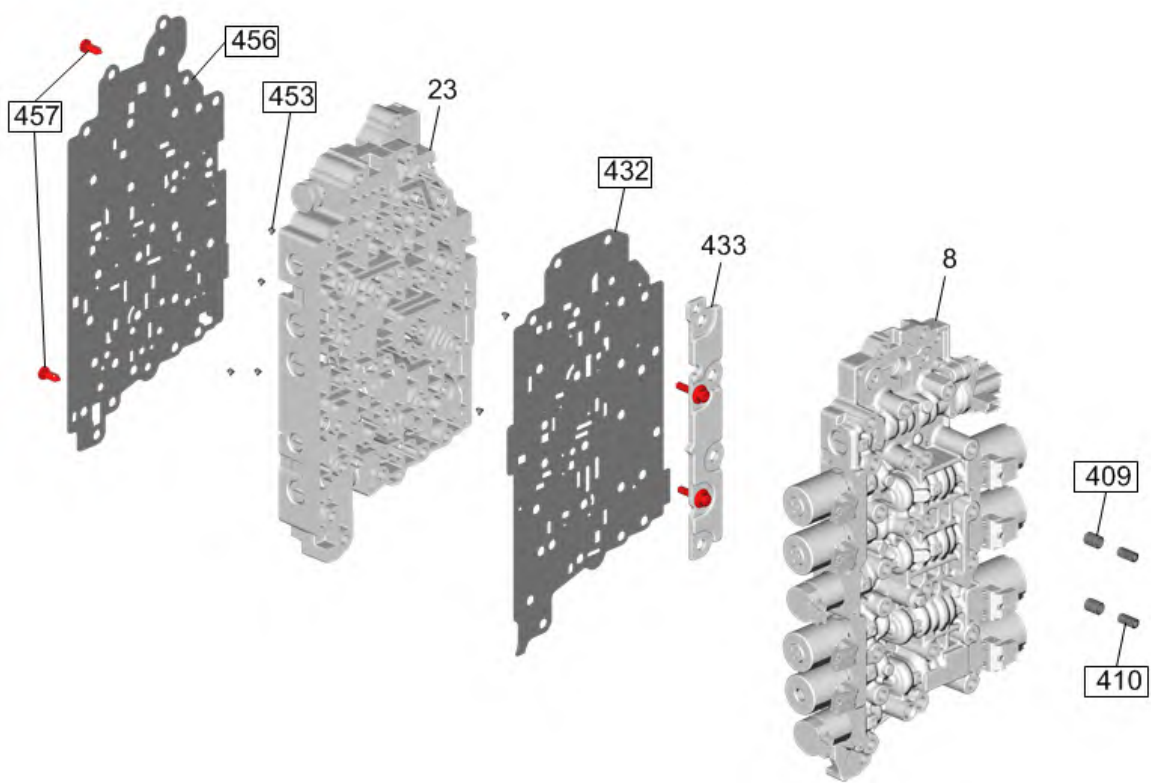


Fig. 18: Exploded View Of Automatic Transmission Seal Kit Components (4 Of 6)

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.

Automatic Transmission Seal Kit (4 of 6)

Callout	Quantity	Component Name
409	2	Variable Feed Solenoid Clutch Accumulator Piston Spring
410	2	Variable Feed Solenoid Clutch Accumulator Piston
432	1	Control Valve Body Spacer Plate
453	QTY	Control Valve Body Ball Check Valve - Model Dependent
456	1	Control Valve Body Spacer Plate
457	2	Control Valve Body Spacer Plate Retainer

Automatic Transmission Seal Kit (5 of 6)

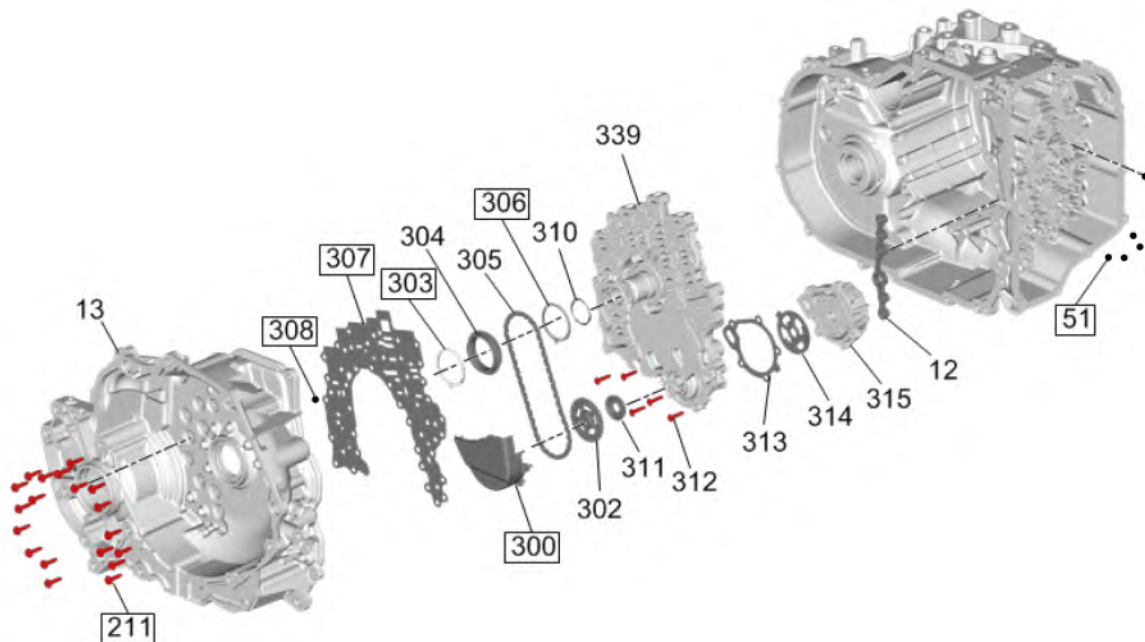


Fig. 19: Exploded View Of Automatic Transmission Seal Kit Components (5 Of 6)

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.

Automatic Transmission Seal Kit (5 of 6)

Callout	Quantity	Component Name
51	QTY	Control Valve Body Ball Check Valve - Model Dependent
211	19	Automatic Transmission Fluid Pump Cover Bolt
300	1	Automatic Transmission Fluid Baffle
303	1	Driven Sprocket Thrust Washer
306	1	Driven Sprocket Thrust Washer
307	1	Auxiliary Control Valve Body Spacer Plate
308	1	Automatic Transmission Fluid Pump Ball Check Valve

Automatic Transmission Seal Kit (6 of 6)

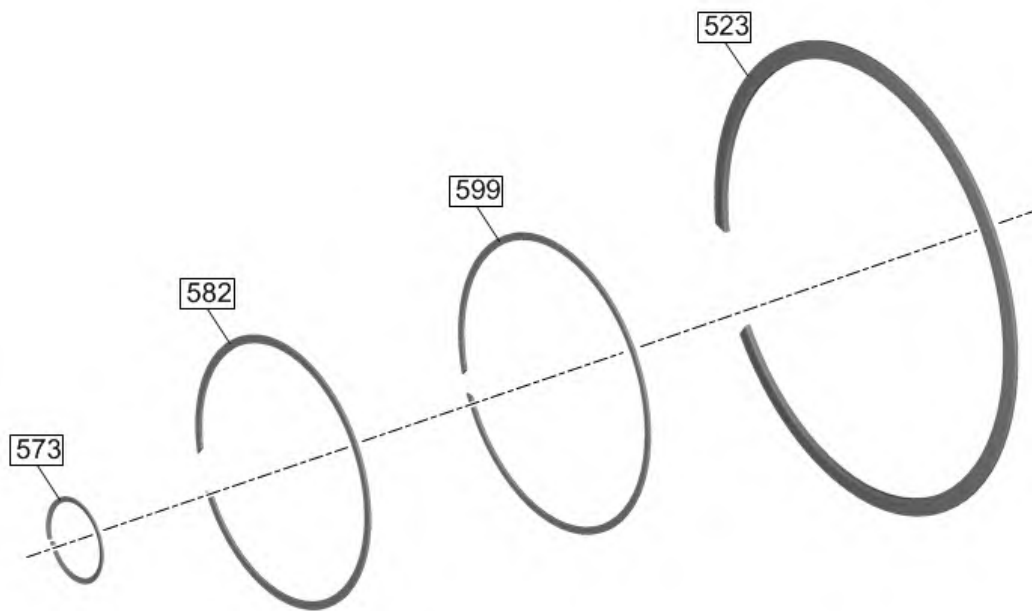


Fig. 20: Exploded View Of Automatic Transmission Seal Kit Components (6 Of 6).

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.

Automatic Transmission Seal Kit (6 of 6)

Callout	Quantity	Component Name
523	1	1-2-3-4-5-6 Clutch Piston Housing Return Ring
573	1	4-5-6 Clutch Dam Retaining Ring
582	1	5-7-Reverse Clutch Backing Plate Retaining Ring
599	1	1-2-3-4-5-6 Clutch Backing Plate Retaining Ring