

2021 TRANSMISSION

Automatic Transmission - 9T45 (M3F) - Component Locator - Trailblazer

COMPONENT LOCATOR

DISASSEMBLED VIEWS

Case and Associated Parts

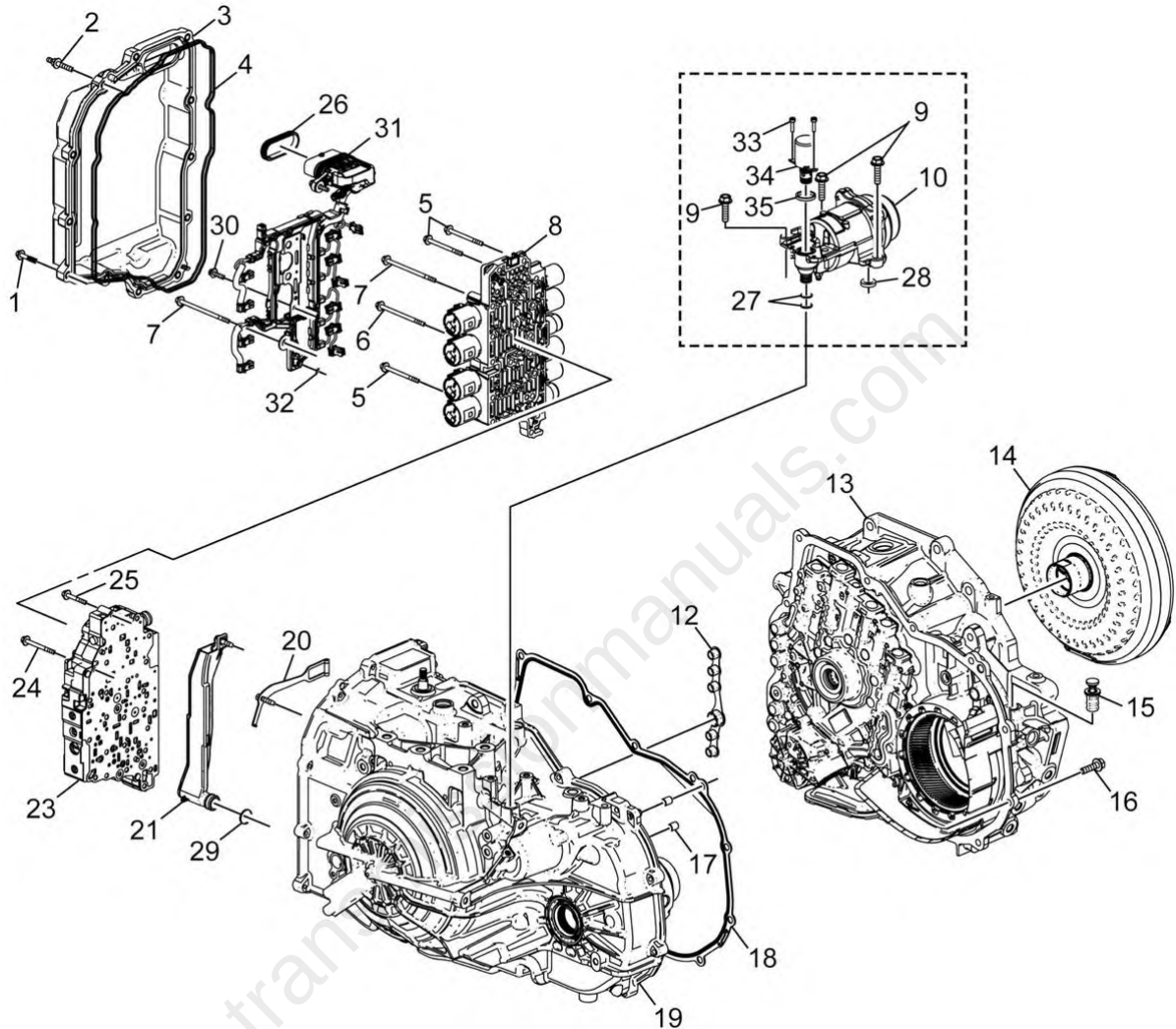


Fig. 1: Exploded View Of Case And Associated Parts

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Valve Body Cover Bolt
2	Control Valve Body Cover Stud
3	Control Valve Body Cover
4	Control Valve Body Cover Gasket
5	Control Valve Body Bolt
6	Control Valve Body Bolt
7	Control Valve Body Bolt
8	Control Valve Solenoid Body - Model Dependent
9	Automatic Transmission Auxiliary Fluid Accumulator Bolt - Model Dependent
10	Automatic Transmission Auxiliary Fluid Accumulator - Model Dependent

Callout	Component Name
12	Automatic Transmission Fluid Pump Seal
13	Torque Converter and Differential Housing
14	Torque Converter
15	Transmission Fluid Filler Tube Plug
16	Torque Converter and Differential Housing Bolt
17	Transmission Case Locating Pin
18	Torque Converter Housing Gasket
19	Automatic Transmission Case
20	Manual Shift Detent Lever Spring - Model Dependent
21	Fluid Transfer Pipe
23	Control Valve Body - Model Dependent
24	Control Valve Body Bolt
25	Control Valve Body Bolt
26	Body Side Wiring Harness Opening Seal
27	Automatic Transmission Case Seal - Model Dependent
28	Accumulator Bypass Valve Seal - Model Dependent
29	Fluid Transfer Pipe Seal
30	Control Valve Solenoid Body Bolt
31	Automatic Transmission Wiring Harness - Model Dependent
32	Automatic Transmission Fluid Temperature Sensor Seal
33	Accumulator Valve Body Bolt - Model Dependent
34	Shift On/Off Solenoid Valve - Model Dependent
35	Accumulator Bypass Valve Seal - Model Dependent

Transmission Case Assembly

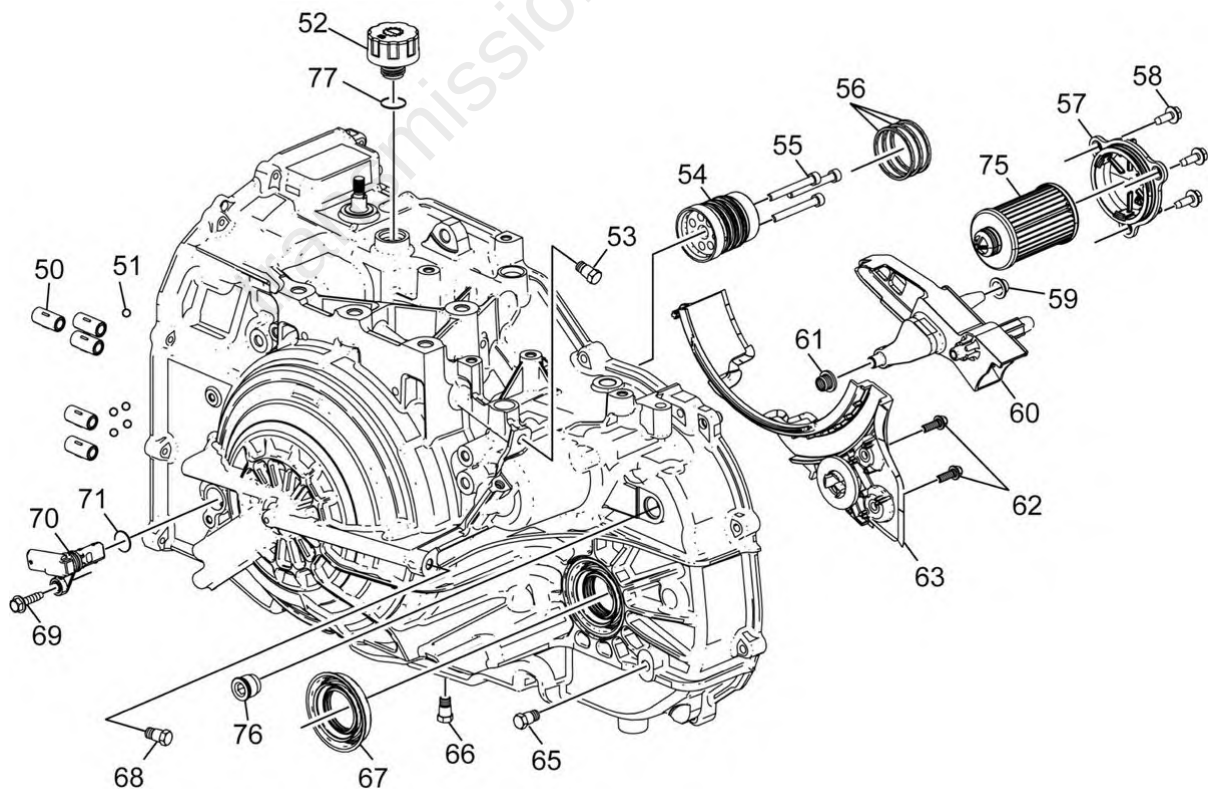


Fig. 2: Exploded View Of Transmission Case Assembly.
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
50	1-2-3-4 Low and Reverse Clutch Fluid Passage Seal
51	Control Valve Body Ball Check Valve
52	Transmission Fluid Filler Cap
53	Automatic Transmission Fluid Pressure Test Hole Plug
54	Input Shaft Support
55	Input Shaft Support Bolt
56	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
57	Automatic Transmission Fluid Filter Cover
58	Automatic Transmission Fluid Filter Cover Bolt
59	Drive Link Lubricant Fluid Seal
60	Drive Link Lubricant Scoop
61	Drive Link Lubricant Fluid Seal
62	Front Differential Carrier Baffle Bolt
63	Front Differential Carrier Baffle
65	Automatic Transmission Fluid Level Hole Plug
66	Automatic Transmission Fluid Pan Drain Plug
67	Front Wheel Drive Shaft Oil Seal
68	Automatic Transmission Case Hole Plug
69	Automatic Transmission Input Speed Sensor Bolt
70	Automatic Transmission Input Speed Sensor
71	Automatic Transmission Input Speed Sensor Seal - O-Ring
75	Automatic Transmission Fluid Filter
76	Automatic Transmission Case Hole Plug
77	Automatic Transmission Fluid Filter Cap Seal

Torque Converter and Differential Housing Assembly

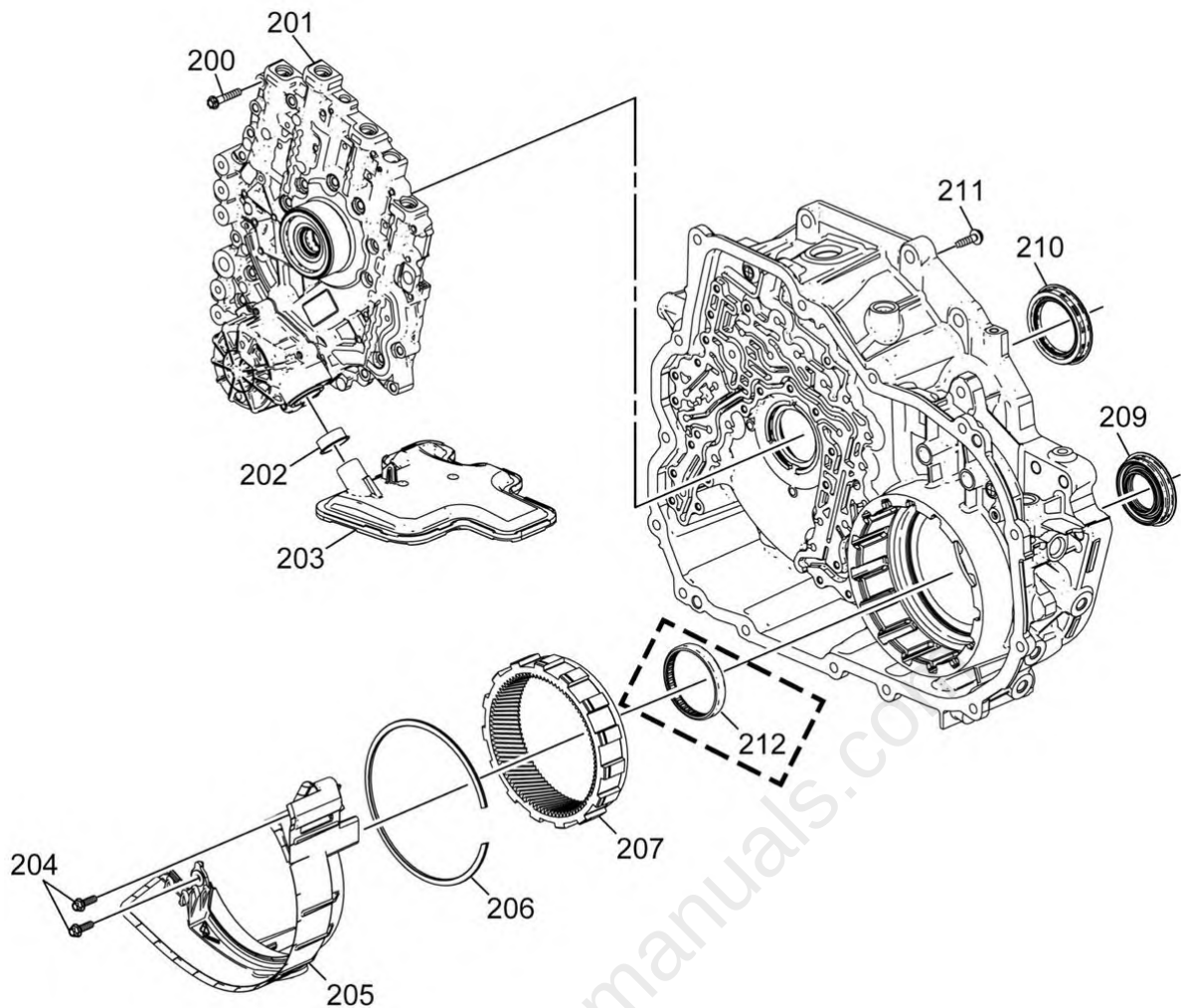


Fig. 3: Exploded View Of Torque Converter And Differential Housing Assembly.
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
200	Automatic Transmission Fluid Pump Cover Bolt
201	Automatic Transmission Fluid Pump Assembly
202	Automatic Transmission Fluid Filter Seal
203	Automatic Transmission Fluid Filter
204	Front Differential Carrier Baffle Bolt
205	Front Differential Carrier Baffle
206	Front Differential Rear Gear Retainer
207	Front Differential Ring Gear
209	Front Wheel Drive Shaft Oil Seal
210	Torque Converter Fluid Seal
211	Automatic Transmission Fluid Pump Cover Bolt
212	Front Differential Carrier Bearing - Model Dependent

[Drive Link Assembly](#)

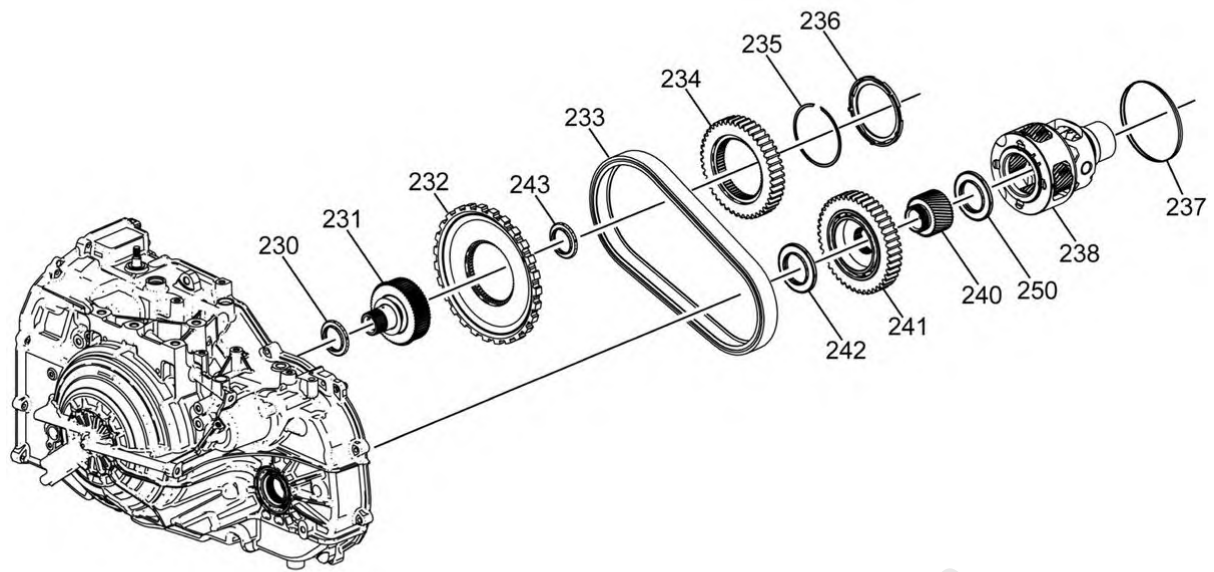


Fig. 4: Exploded View Of Drive Link Assembly.
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
230	Output Sun Gear Thrust Bearing
231	Output Carrier Transfer Drive Gear Hub Assembly
232	Park Gear
233	Drive Link
234	Drive Sprocket
235	Drive Sprocket Retaining Ring
236	Drive Sprocket Thrust Washer
237	Front Differential Carrier Bearing
238	Front Differential Carrier
240	Front Differential Carrier Sun Gear
241	Driven Sprocket
242	Driven Sprocket Bearing
243	Reaction Carrier Sun Gear Thrust Bearing
250	Front Differential Carrier Sun Gear Thrust Bearing

Front Differential Carrier Assembly

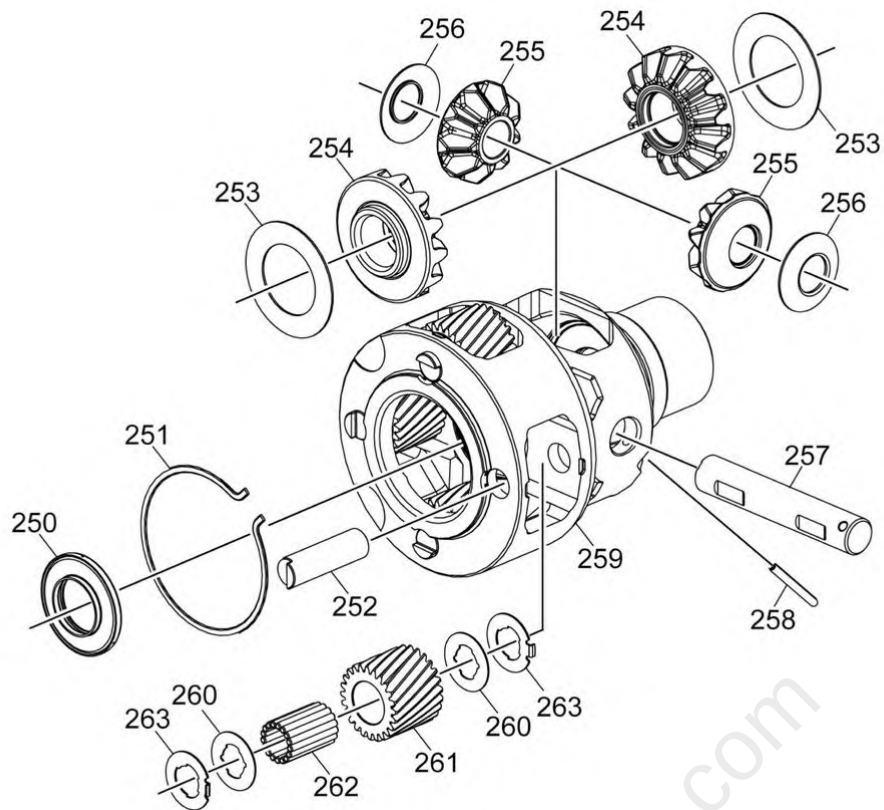


Fig. 5: Exploded View Of Front Differential Carrier Assembly.
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
250	Front Differential Carrier Sun Gear Thrust Bearing
251	Final Drive Retainer
252	Final Drive Pinion Pin
253	Front Differential Side Gear Thrust Washer
254	Front Differential Side Gear
255	Front Differential Pinion Gear Thrust Washer
256	Front Differential Pinion Gear
257	Front Differential Pinion Gear Shaft
258	Front Differential Pinion Gear Shaft Pin
259	Differential Carrier
260	Final Drive Inner Washer
261	Pinion Final Drive Gear
262	Final Drive Roller
263	Final Drive Outer Washer

Oil Pump Assembly

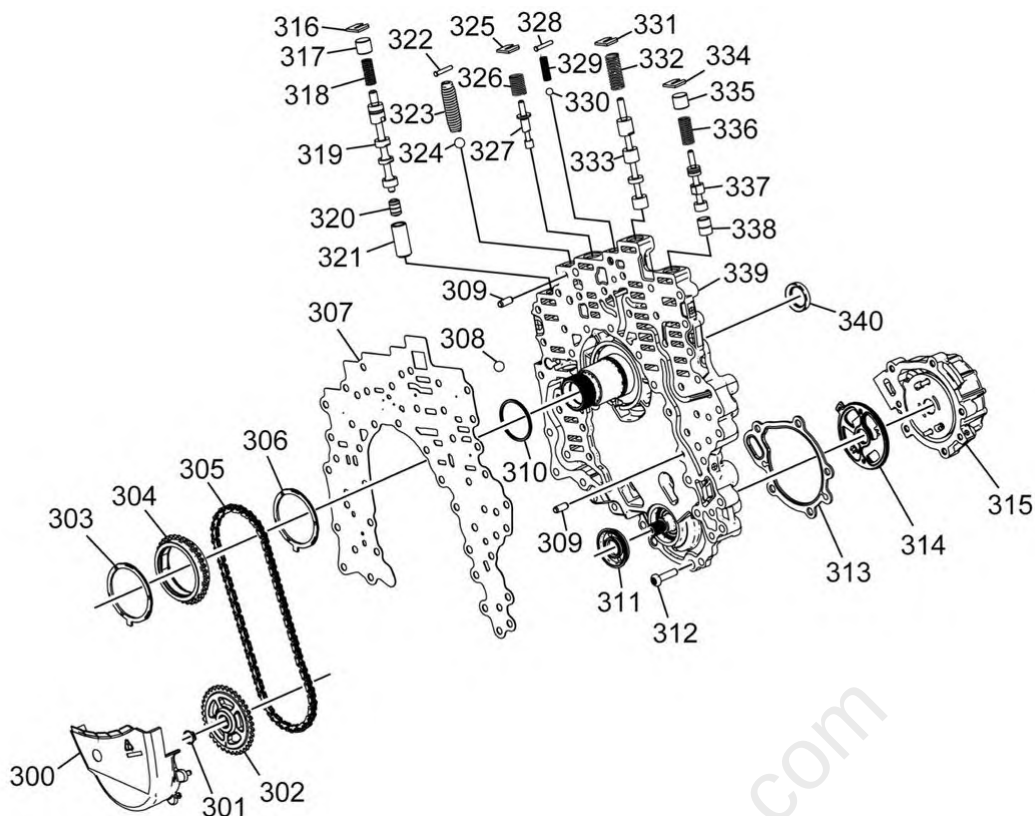


Fig. 6: Exploded View Of Oil Pump Assembly.
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
300	Automatic Transmission Fluid Baffle
301	Drive Sprocket Retaining Ring
302	Driven Sprocket
303	Driven Sprocket Thrust Washer
304	Drive Sprocket
305	Drive Link
306	Driven Sprocket Thrust Washer
307	Auxiliary Control Valve Body Spacer Plate
308	Automatic Transmission Fluid Pump Ball Check Valve
309	Automatic Transmission Fluid Pump Locating Pin
310	Torque Converter Fluid Seal Ring
311	Automatic Transmission Fluid Pump Shaft Seal
312	Automatic Transmission Fluid Pump Cover Bolt
313	Automatic Transmission Fluid Pump Gasket
314	Automatic Transmission Fluid Pump Pressure Plate Seal
315	Automatic Transmission Fluid Pump
316	Pressure Regulator Valve Spring Retainer
317	Pressure Regulator Valve Plug
318	Pressure Regulator Valve Spring
319	Pressure Regulator Valve
320	Pressure Regulator Shuttle Valve
321	Pressure Regulator Valve Bore Bushing
322	Line Blowoff Ball Valve Spring Retainer
323	Automatic Transmission Fluid Pump Blowoff Ball Valve Spring
324	Automatic Transmission Fluid Pump Blowoff Ball Valve
325	Lube Regulator Valve Bore Plug Retainer

Callout	Component Name
326	Lube Boost Valve Spring
327	Lube Regulator Valve
328	Torque Converter Clutch Blowoff Ball Valve Retainer
329	Torque Converter Clutch Blowoff Ball Valve Spring
330	Torque Converter Clutch Blowoff Ball Valve
331	Torque Converter Clutch Control Valve Retainer
332	Torque Converter Clutch Control Valve Spring
333	Torque Converter Clutch Control Valve
334	Torque Converter Clutch Regulator Application Valve Bore Plug Retainer
335	Torque Converter Clutch Regulator Application Valve Bore Plug
336	Torque Converter Clutch Regulator Apply Valve Spring
337	Torque Converter Clutch Regulator Apply Valve
338	Torque Converter Clutch Regulator Application Shuttle Valve
339	Drive Sprocket Support
340	Stator Shaft Seal

Control Valve Solenoid Body Assembly

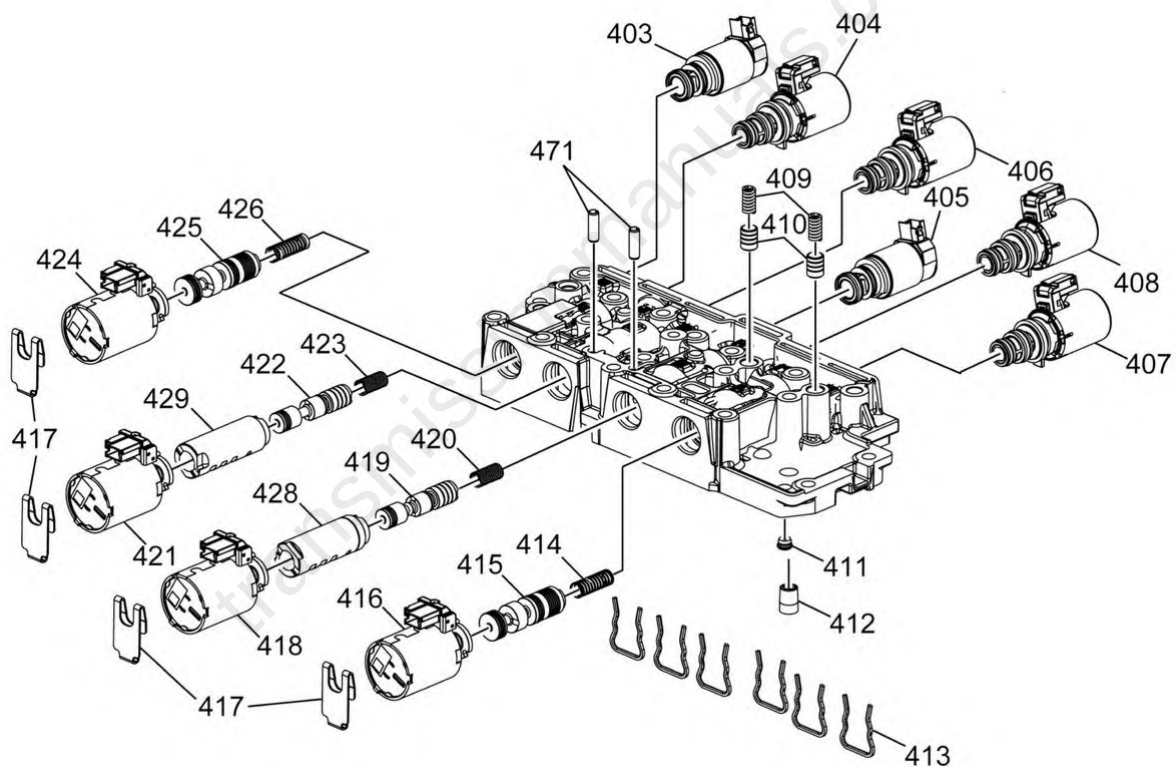


Fig. 7: Exploded View Of Control Valve Solenoid Body Assembly.

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
403	Shift Solenoid Valve - Q77K Transmission Control Solenoid Valve 10
404	Shift Solenoid Valve - Q77G Transmission Control Solenoid Valve 7
405	Shift Solenoid Valve - Q77J Transmission Control Solenoid Valve 9
406	Shift Solenoid Valve - Q77H Transmission Control Solenoid Valve 8
407	Shift Solenoid Valve - Q77C Transmission Control Solenoid Valve 3
408	Shift Solenoid Valve - Q77D Transmission Control Solenoid Valve 4
409	Variable Feed Solenoid Clutch Accumulator Piston Spring

Callout	Component Name
410	Variable Feed Solenoid Clutch Accumulator Piston
411	Variable High and 2-3-4 Clutch Housing Valve
412	Automatic Transmission Fluid Trough Check Ball
413	Control Valve Solenoid Retainer Retainer
414	2-9 Clutch Regulator Valve Spring
415	2-9 Clutch Regulator Valve
416	Shift Solenoid Valve - Q77B Transmission Control Solenoid Valve 2
417	Control Valve Solenoid Retainer Retainer [4x]
418	Shift Solenoid Valve - Q77A Transmission Control Solenoid Valve 1
419	1-2-3-4-5-6 Clutch Regulator Valve
420	1-2-3-4-5-6 Clutch Regulator Spring
421	Shift Solenoid Valve - Q77F Transmission Control Solenoid Valve 6
422	1-Reverse and 6-7-8-9 Clutch Regulator Valve
423	1-Reverse and 6-7-8-9 Clutch Regulator Valve Spring
424	Shift Solenoid Valve - Q77E Transmission Control Solenoid Valve 5
425	5-7-Reverse Clutch Regulator Valve
426	5-7-Reverse Clutch Regulator Valve Spring
428	1-2-3-4-5-6 Clutch Regulator Valve Sleeve
429	1-Reverse and 6-7-8-9 Clutch Regulator Valve Sleeve
471	Clutch Regulator Valve Sleeve Pin

Control Valve Body Assembly

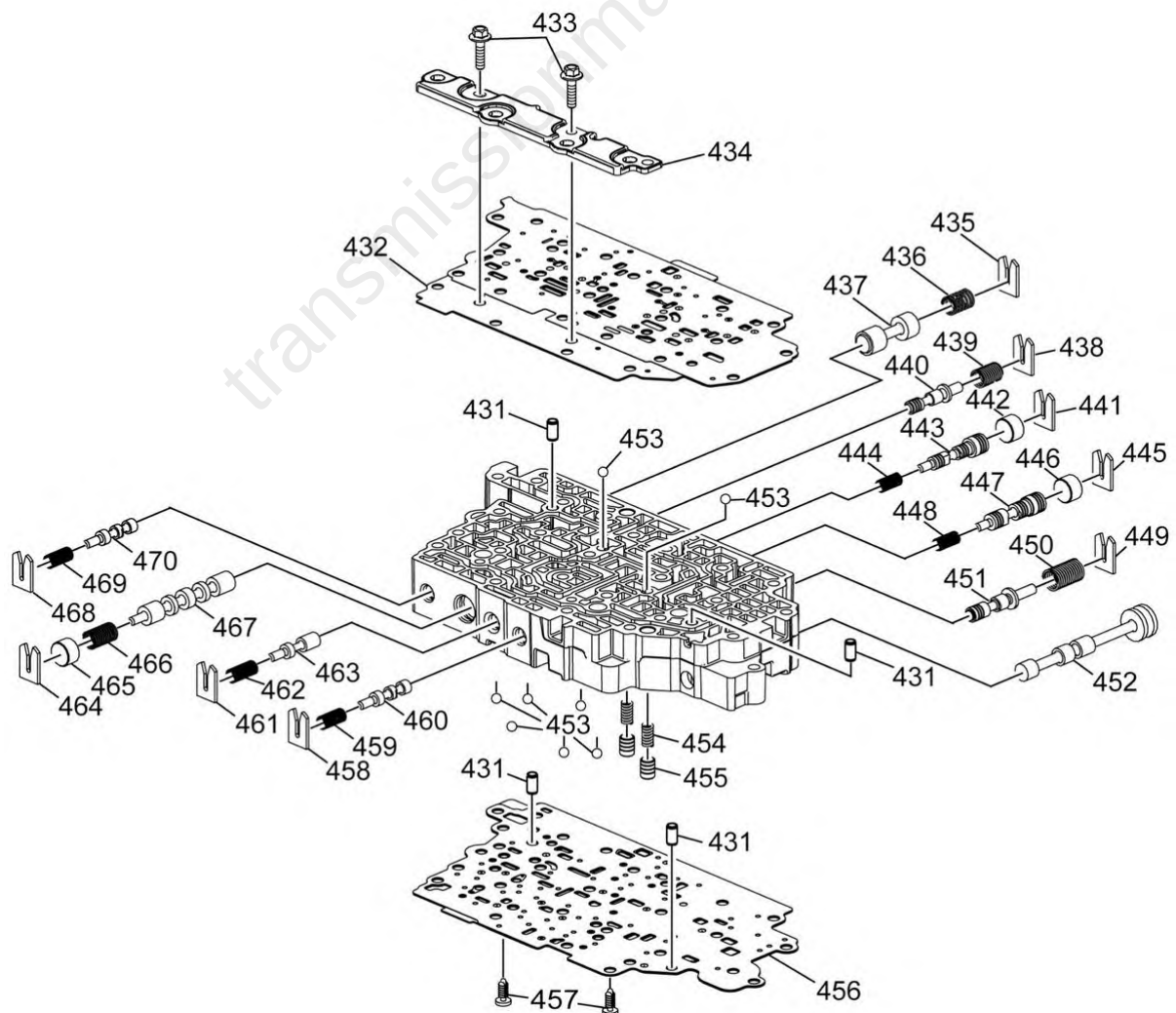


Fig. 8: Exploded View Of Control Valve Body Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
431	Control Valve Body Locating Pin
432	Control Valve Body Spacer Plate
433	Control Valve Solenoid Body Bolt
434	Oil Transfer Plate
435	Oil Level Control Valve Spring Retainer
436	Automatic Transmission Fluid Level Control Valve Spring
437	Automatic Transmission Fluid Level Control Valve
438	Feed Limit Valve Spring Retainer
439	Feed Limit Valve Spring
440	Feed Limit Valve
441	4th Clutch Regulator Valve Bore Plug Retainer
442	4th Clutch Regulator Valve Bore Plug
443	4th Clutch Regulator Valve
444	3-8 Clutch Regulator Valve Spring
445	3-8 Clutch Regulator Valve Bore Plug Retainer
446	3-8 Clutch Regulator Valve Bore Plug
447	3-8 Clutch Regulator Valve
448	3-8 Clutch Regulator Valve Spring
449	Actuator Feed Limit Valve Spring Retainer
450	Actuator Feed Limit Valve Spring
451	Actuator Feed Limit Valve
452	Manual Valve
453	Control Valve Body Ball Check Valve
454	Variable Feed Solenoid Clutch Accumulator Piston Spring
455	Variable Feed Solenoid Clutch Accumulator Piston
456	Control Valve Body Spacer Plate
457	Control Valve Body Spacer Plate Retainer
458	1-2-3-4-5-6 Clutch Boost Valve Spring Retainer
459	1-2-3-4-5-6 Clutch Boost Valve Spring
460	1-2-3-4-5-6 Clutch Boost Valve
461	Latch Valve Spring Retainer
462	Latch Valve Spring
463	Latch Valve
464	Clutch Selector Valve Bore Plug Retainer
465	Clutch Selector Valve Bore Plug
466	Clutch Selector Valve Spring
467	Clutch Selector Valve
468	5-7-Reverse Clutch Boost Valve Spring Retainer
469	5-7-Reverse Clutch Boost Valve Spring
470	5-7-Reverse Clutch Boost Valve

Output Carrier Transfer Drive Gear Hub Assembly

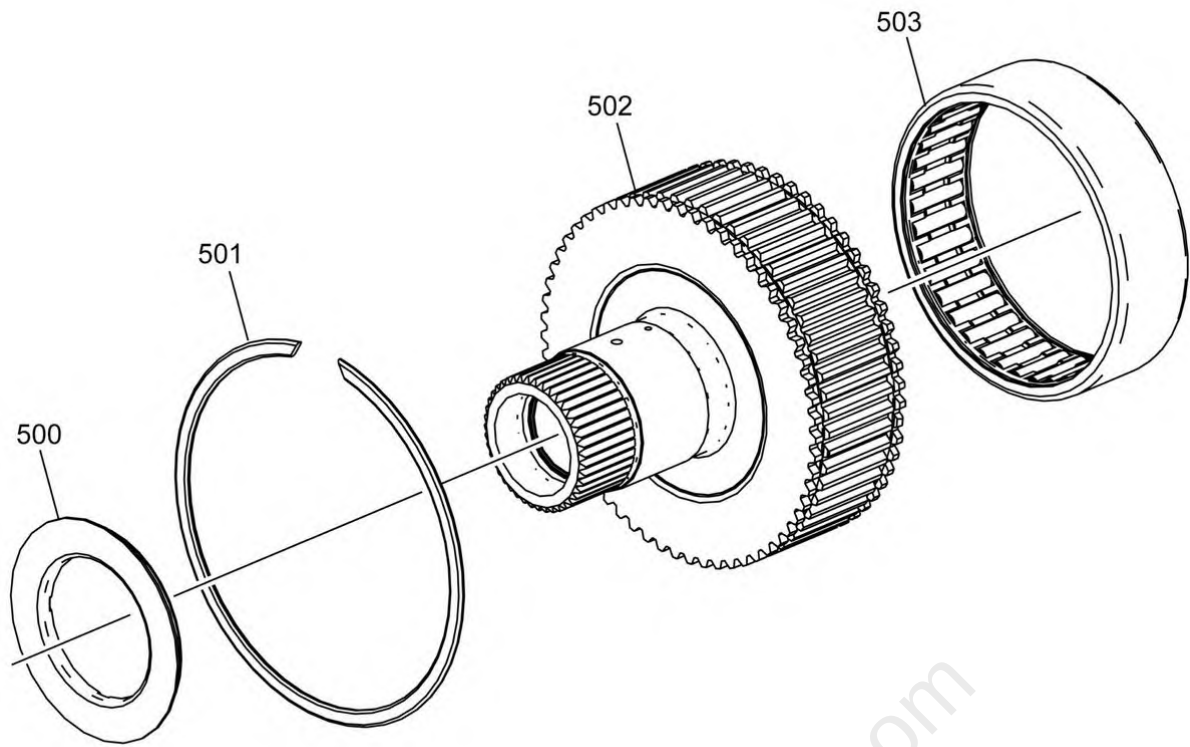


Fig. 9: Exploded View Of Output Carrier Transfer Drive Gear Hub Assembly.
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
500	Reaction Sun Gear Thrust Bearing
501	Drive Sprocket Retaining Ring
502	Output Carrier Transfer Drive Gear Hub
503	Output Carrier Hub Bearing

2-9 and 3-8 Clutch Plate Assemblies

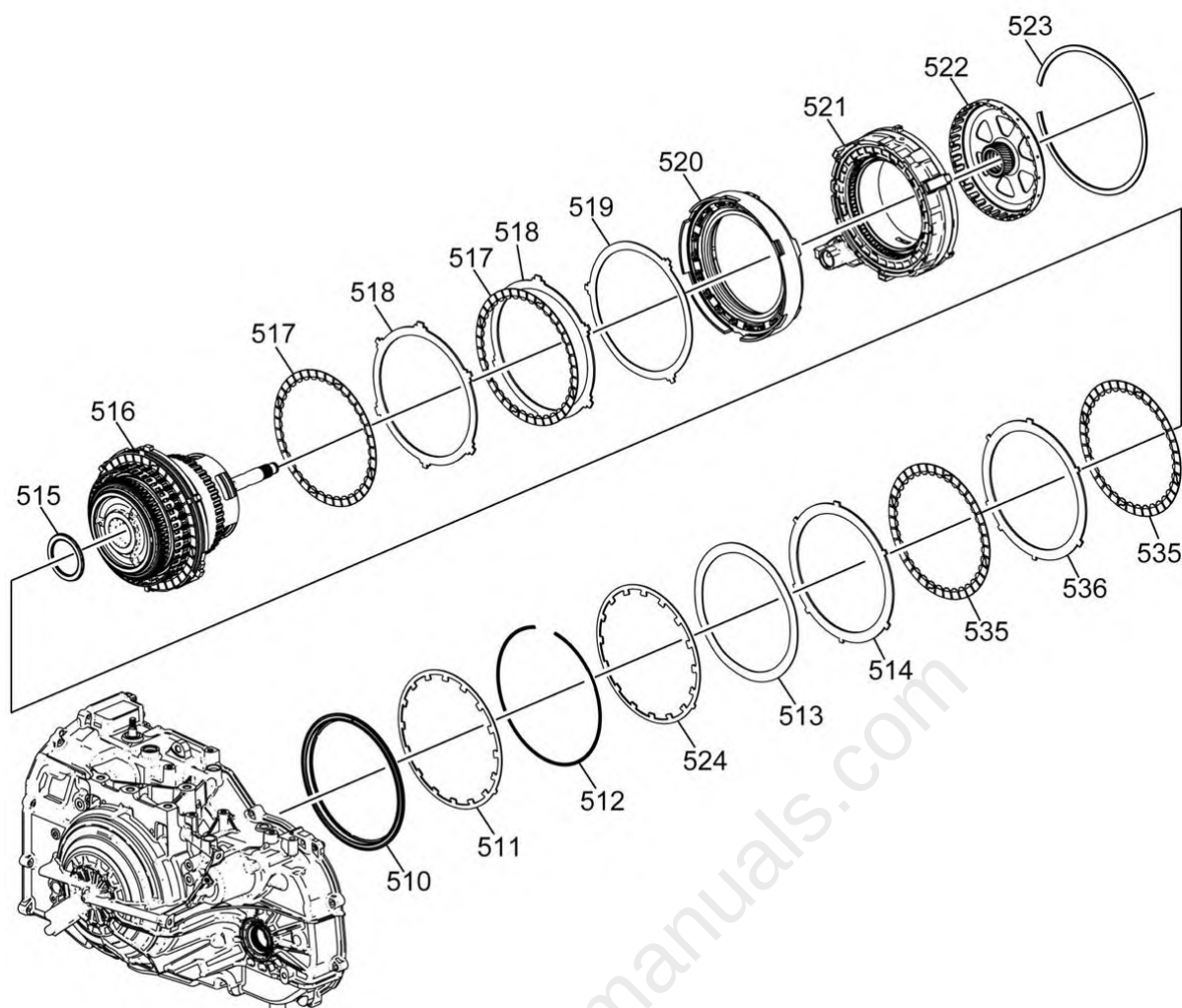


Fig. 10: Exploded View Of 2-9 And 3-8 Clutch Plate Assemblies

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
510	3-8 Clutch Piston
511	3-8 Clutch Spring
512	3-8 Clutch Spring Retaining Ring
513	3-8 Clutch Plate - Wave
514	3-8 Clutch Plate
535	3-8 Clutch Plate - Friction
536	3-8 Clutch Plate
515	6-7-8-9 and 5-7-Reverse Clutch Housing Thrust Bearing
516	5-7-Reverse and 6-7-8-9 Clutch Housing
517	2-9 Clutch Plate - Friction
518	2-9 Clutch Plate
519	2-9 Clutch Waved Plate
520	2-9 and 4 Clutch Piston Housing Assembly
521	1-Reverse and 1-2-3-4-5-6 Clutch Piston Housing Assembly
522	Output Sun Gear
523	1-2-3-4-5-6 Clutch Piston Housing Return Ring
524	3-8 Clutch Apply Ring

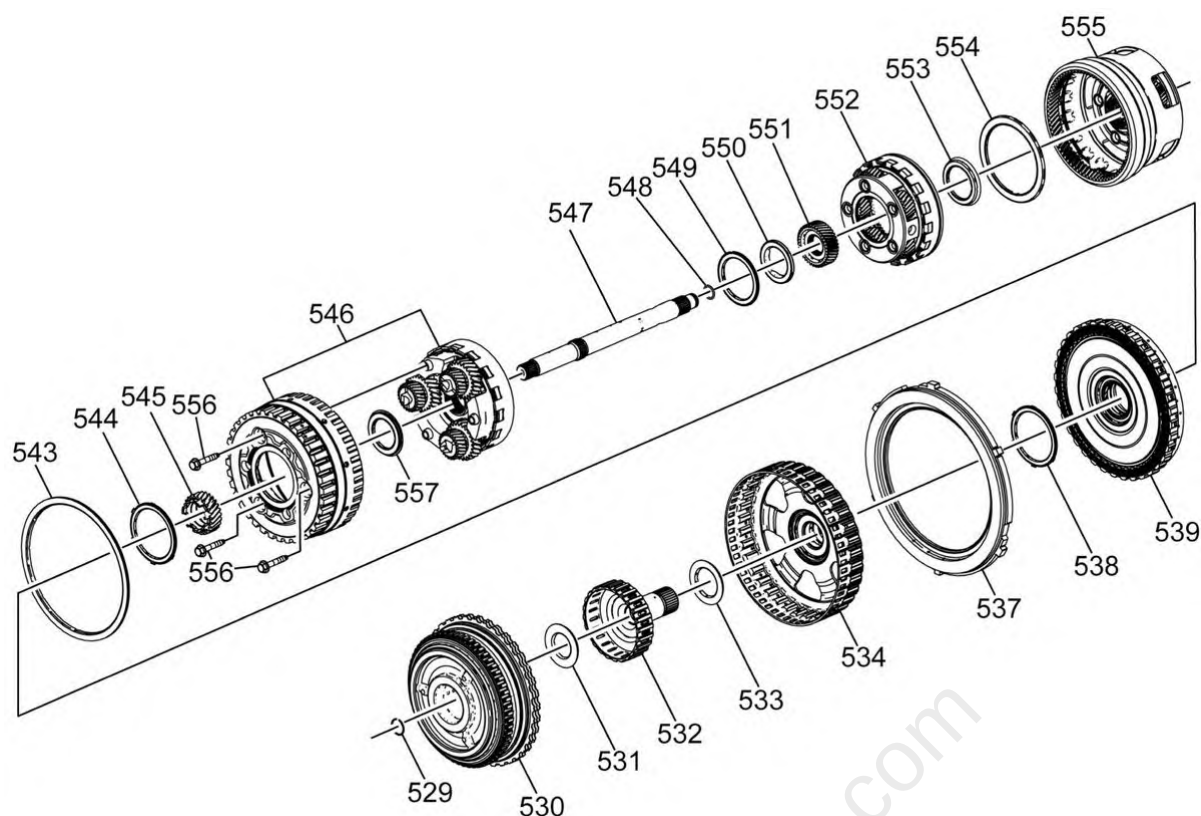


Fig. 11: Exploded View Of 5-7-Rev And 6-7-8-9 Clutch Housing Assembly (1 Of 2)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
529	Turbine Shaft Retainer Ring
530	5-7-Reverse and 6-7-8-9 Clutch Housing Assembly
531	Reaction Carrier Hub Bearing
532	Reaction Carrier Hub
533	Reaction Carrier Sun Gear Thrust Bearing
534	3-8 and 5-7-Reverse Clutch Hub
537	2-9 Clutch Backing Plate
538	Overdrive Sun Gear Thrust Bearing
539	2-9 and 4 Clutch Hub Assembly
543	4th Clutch Thrust Bearing
544	Overdrive Sun Gear Thrust Bearing
545	Reaction Sun Gear
546	Overdrive Carrier
547	Turbine Shaft
548	Turbine Shaft Seal
549	Input Carrier Thrust Bearing
550	Input Sun Gear Thrust Bearing
551	Input Sun Gear
552	Input Carrier
553	Input Sun Gear Thrust Bearing
554	Output Carrier Thrust Bearing
555	Output Carrier
556	Overdrive and Reaction Carrier Bolt [3x]
557	Reaction Sun Gear Thrust Bearing

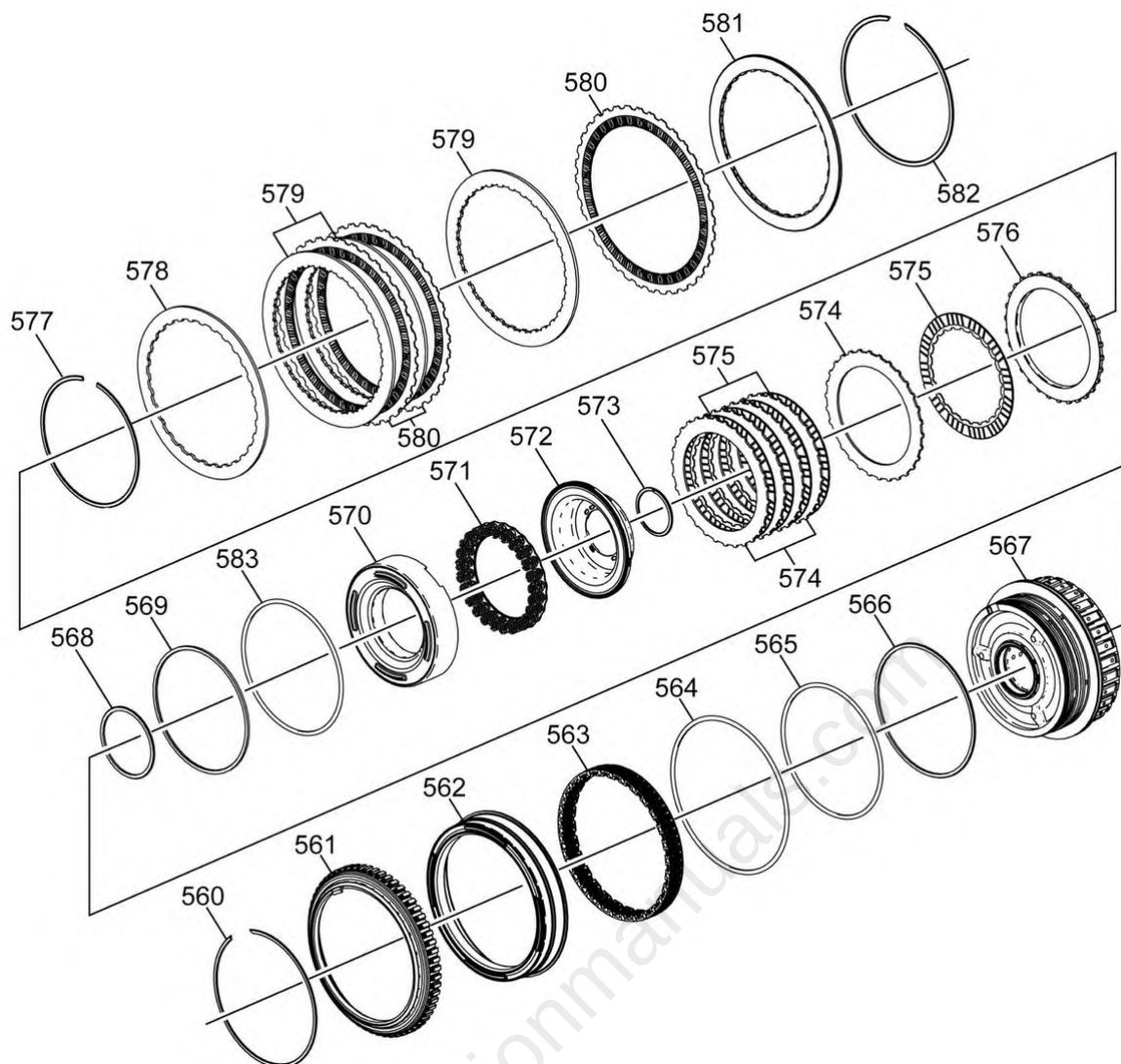


Fig. 12: Exploded View Of 5-7-Rev And 6-7-8-9 Clutch Housing Assembly_(2 Of 2)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
560	Automatic Transmission Input Shaft Speed Sensor Reluctor Ring Retaining Ring
561	Automatic Transmission Input Shaft Speed Sensor Reluctor Wheel
562	3-5-Reverse Clutch Piston
563	5-7-Reverse Piston Retainer Spring
564	3-5-Reverse Clutch Piston Dam Seal
565	3-5-Reverse Clutch Piston Inner Seal
566	3-5-Reverse Clutch Piston Inner Seal
567	5-7-Reverse and 6-7-8-9 Clutch Housing
568	4-5-6 Clutch Piston Inner Seal
569	4-5-6 Clutch Piston Dam Seal
570	6-7-8-9 Clutch Piston
571	6-7-8-9 Clutch Piston Retainer Spring
572	6-7-8-9 Clutch Piston Dam
573	4-5-6 Clutch Dam Retaining Ring
574	6-7-8-9 Clutch Plate
575	6-7-8-9 Clutch Plate - Friction
576	6-7-8-9 Clutch Backing Plate
577	6-7-8-9 Clutch Backing Plate Retaining Ring

Callout	Component Name
578	5-7-Reverse Clutch Apply Plate
579	5-7-Reverse Clutch Plate
580	5-7-Reverse Clutch Plate - Friction
581	5-7-Reverse Clutch Backing Plate
582	5-7-Reverse Clutch Backing Plate Retaining Ring
583	4-5-6 Clutch Piston Outer Seal

1-Rev and 1-2-3-4-5-6 Clutch Piston Housing Assembly

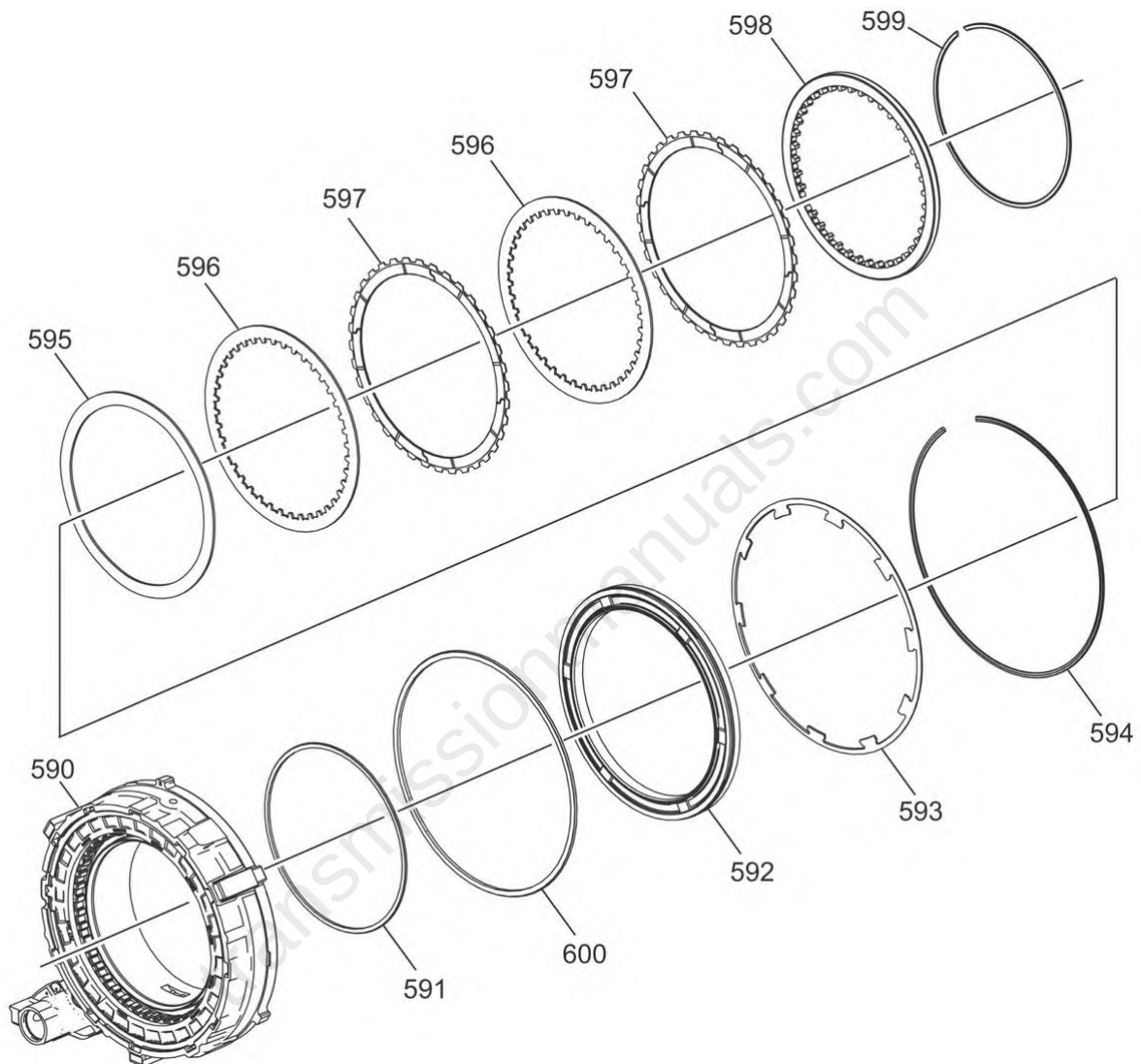


Fig. 13: Exploded View Of 1-Rev And 1-2-3-4-5-6 Clutch Piston Housing Assembly.
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
590	1-Reverse and 1-2-3-4-5-6 Clutch Piston Housing
591	1-2-3-4-5-6 Clutch Piston Inner Seal
592	1-2-3-4-5-6 Clutch Piston
593	1-2-3-4-5-6 Clutch Piston Return Spring
594	1-2-3-4-5-6 Clutch Spring Retaining Ring
595	1-2-3-4-5-6 Clutch Plate - Wave
596	1-2-3-4-5-6 Clutch Plate
597	1-2-3-4-5-6 Clutch Plate - Friction
598	1-2-3-4-5-6 Clutch Backing Plate

Callout	Component Name
599	1-2-3-4-5-6 Clutch Backing Plate Retaining Ring
600	1-2-3-4-5-6 Clutch Piston Seal

2-9 and 4 Clutch Piston Housing Assembly

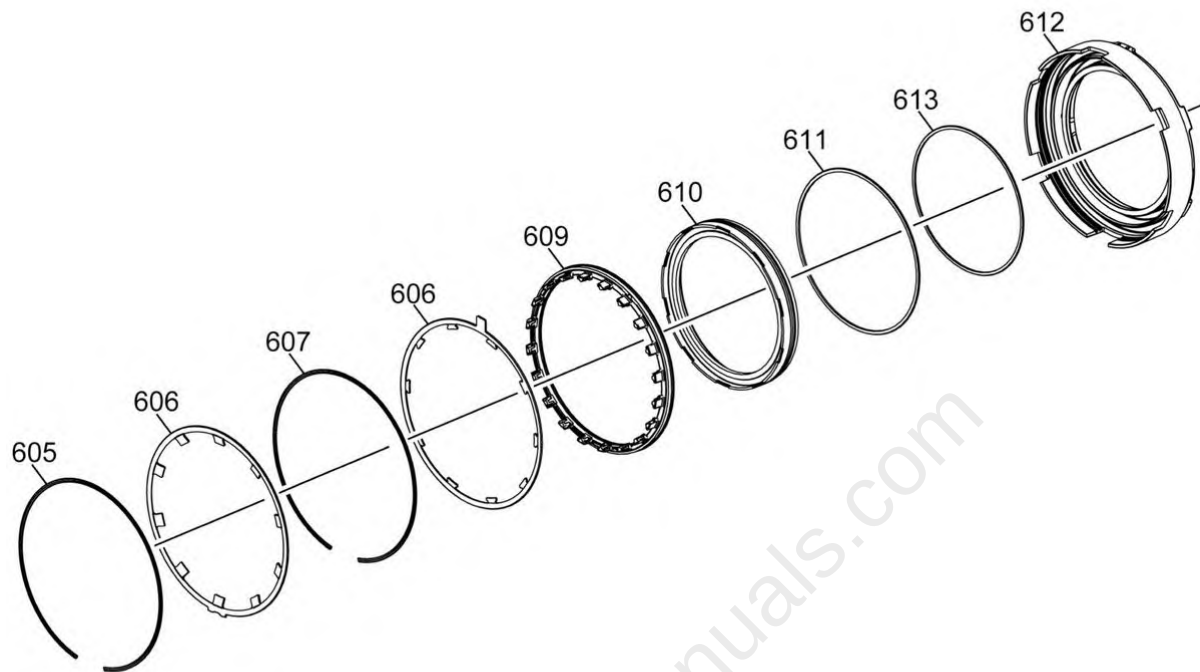


Fig. 14: Exploded View Of 2-9 And 4 Clutch Piston Housing Assembly.
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
605	3-8 Clutch Spring Retaining Ring
606	4th Clutch Piston Return Spring
607	4th Clutch Piston Retaining Ring
609	2-9 Clutch Piston
610	4th Clutch Piston
611	4th Clutch Piston Outer Seal
612	2-9 and 4 Clutch Piston Housing
613	4th Clutch Piston Inner Seal

2-9 and 4 Clutch Hub Assembly

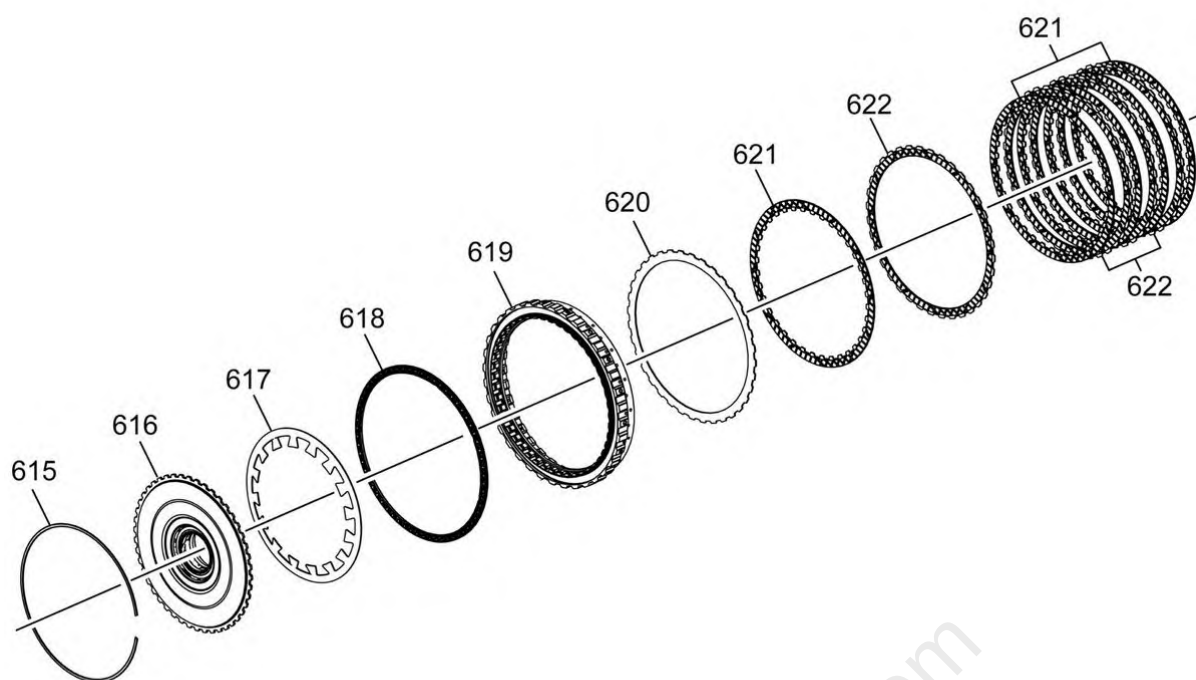


Fig. 15: Exploded View Of 2-9 And 4 Clutch Hub Assembly.
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
615	2-9 and 4 Clutch Hub Ring
616	Overdrive Sun Hub
617	2-9 and 4 Clutch Hub Spring
618	4th Gear Bearing
619	2-9 and 4 Clutch Hub
620	4th Clutch Plate - Apply
621	4th Clutch Plate - Friction
622	4th Clutch Plate

Park System Components (without ETRS)

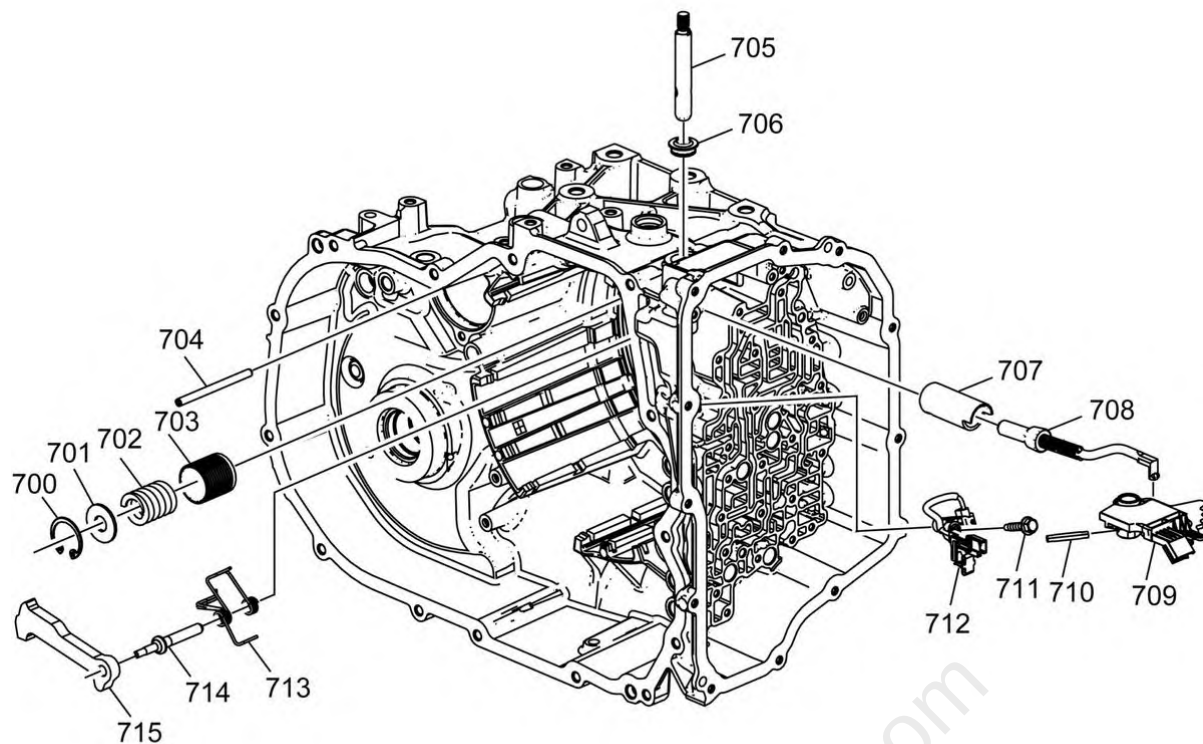


Fig. 16: Exploded View Of Park System Components (Without ETRS)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
700	4th Clutch Accumulator Piston Retaining Ring
701	4th Clutch Accumulator Piston Spring Washer
702	4th Clutch Accumulator Piston Spring
703	4th Clutch Accumulator Piston
704	Park Pawl Actuator Guide Pin
705	Manual Shift Detent Lever Shaft
706	Manual Shift Shaft Seal
707	Park Pawl Actuator Guide
708	Park Pawl Actuator
709	Manual Shift Detent Lever
710	Manual Shift Detent Lever Pin
711	Automatic Transmission Output Speed Sensor Bolt
712	Automatic Transmission Output Speed Sensor
713	Park Pawl Spring
714	Park Pawl Shaft
715	Park Pawl

COMPONENT LOCATION

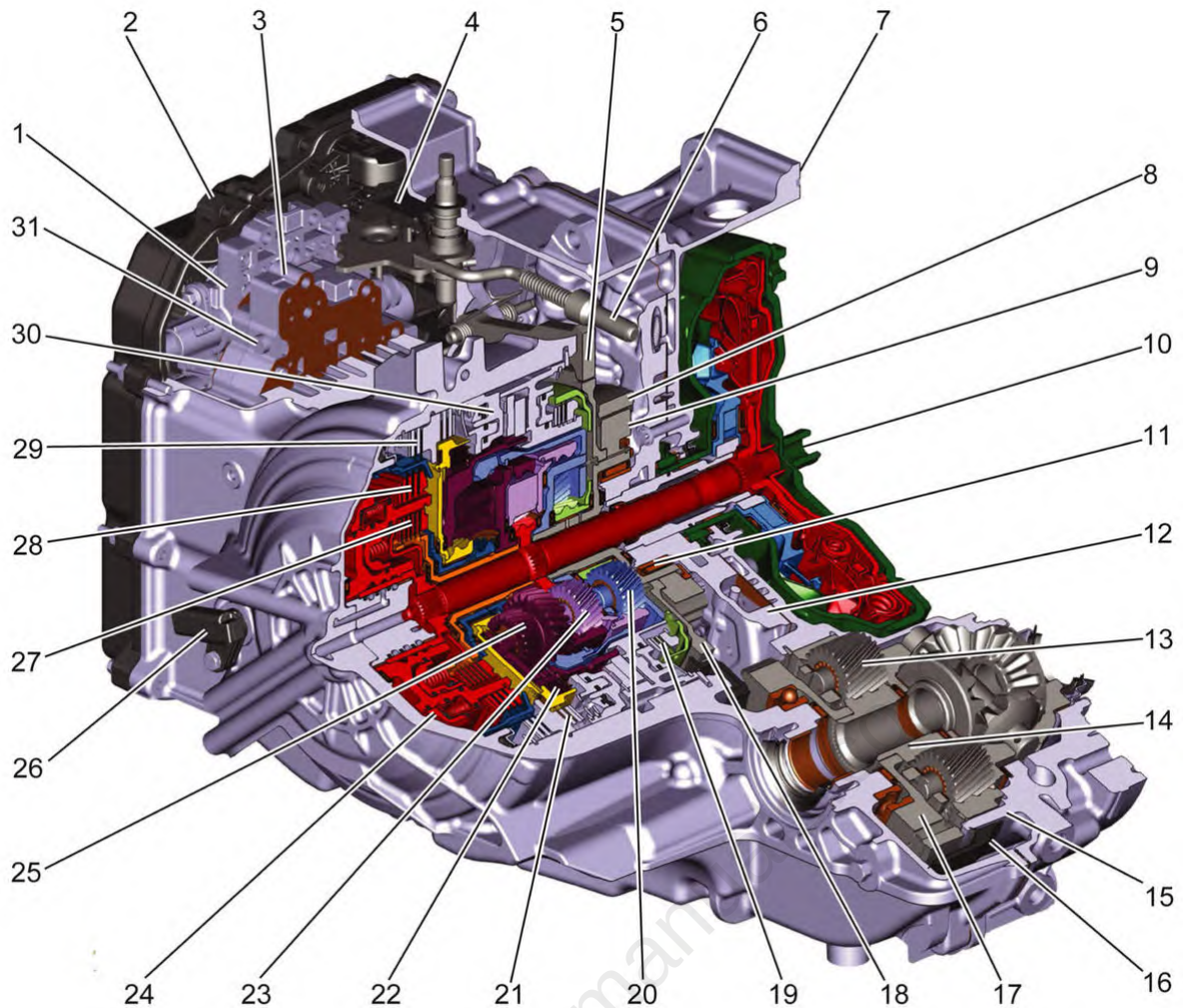


Fig. 17: Control Valve Solenoid Body Assembly Components Location

Courtesy of GENERAL MOTORS COMPANY

1. Control Valve Solenoid Body Assembly
2. Control Valve Body Cover
3. Control Valve Body Assembly
4. Manual Shift Detent Lever
5. Park Pawl
6. Park Pawl Actuator
7. Torque Converter Housing
8. Drive Link
9. Drive Sprocket
10. Torque Converter
11. Output Carrier Transfer Drive Gear Hub Assembly
12. Automatic Transmission Fluid Pump
13. Front Differential Carrier
14. Front Differential Carrier Sun Gear
15. Front Differential Ring Gear
16. Front Differential Carrier Baffle
17. Driven Sprocket
18. Park Gear

19. 1-2-3-4-5-6 Clutch
20. Output Carrier Assembly
21. 2-9 Clutch
22. 4th Clutch
23. Input Carrier Assembly
24. Automatic Transmission Input Shaft Speed Sensor Reluctor Wheel
25. Overdrive and Reaction with Input Internal Gear Carrier
26. Automatic Transmission Input Speed Sensor
27. 6-7-8-9 Clutch
28. 5-7-Reverse Clutch
29. 3-8 Clutch
30. 1-Reverse and 1-2-3-4-5-6 Clutch Piston Housing
31. Manual Valve

BUSHING, BEARING, AND WASHER LOCATIONS

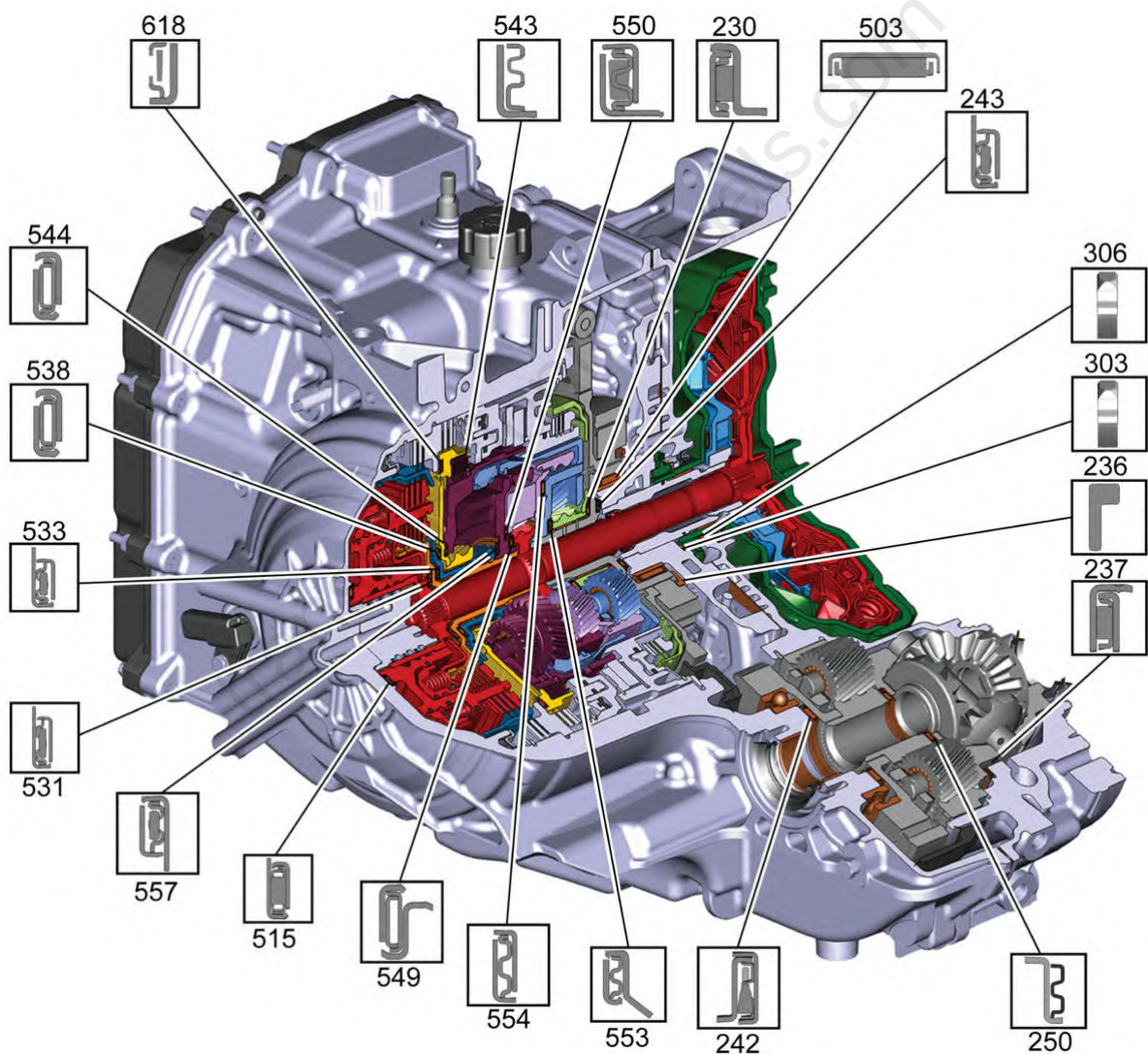


Fig. 18: Exploded View Of Bushing, Bearing And Washer Locations
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
230	Output Sun Gear Thrust Bearing
236	Drive Sprocket Thrust Washer

Callout	Component Name
237	Front Differential Carrier Bearing
239	Differential Carrier Sun Gear Thrust Bearing
242	Driven Sprocket Bearing
303	Driven Sprocket Thrust Washer
306	Driven Sprocket Thrust Washer
500	Reaction Sun Gear Thrust Bearing
503	Output Carrier Hub Bearing
515	6-7-8-9 and 5-7-Reverse Clutch Housing Thrust Bearing
531	Reaction Carrier Hub Bearing
533	Reaction Carrier Sun Gear Thrust Bearing
538	Overdrive Sun Gear Thrust Bearing
543	4th Clutch Thrust Bearing
544	Overdrive Sun Gear Thrust Bearing
549	Input Carrier Thrust Bearing
550	Input Sun Gear Thrust Bearing
553	Input Sun Gear Thrust Bearing
554	Output Carrier Thrust Bearing
618	4th Gear Bearing

SEAL LOCATIONS

Seal Locations (1 of 2)

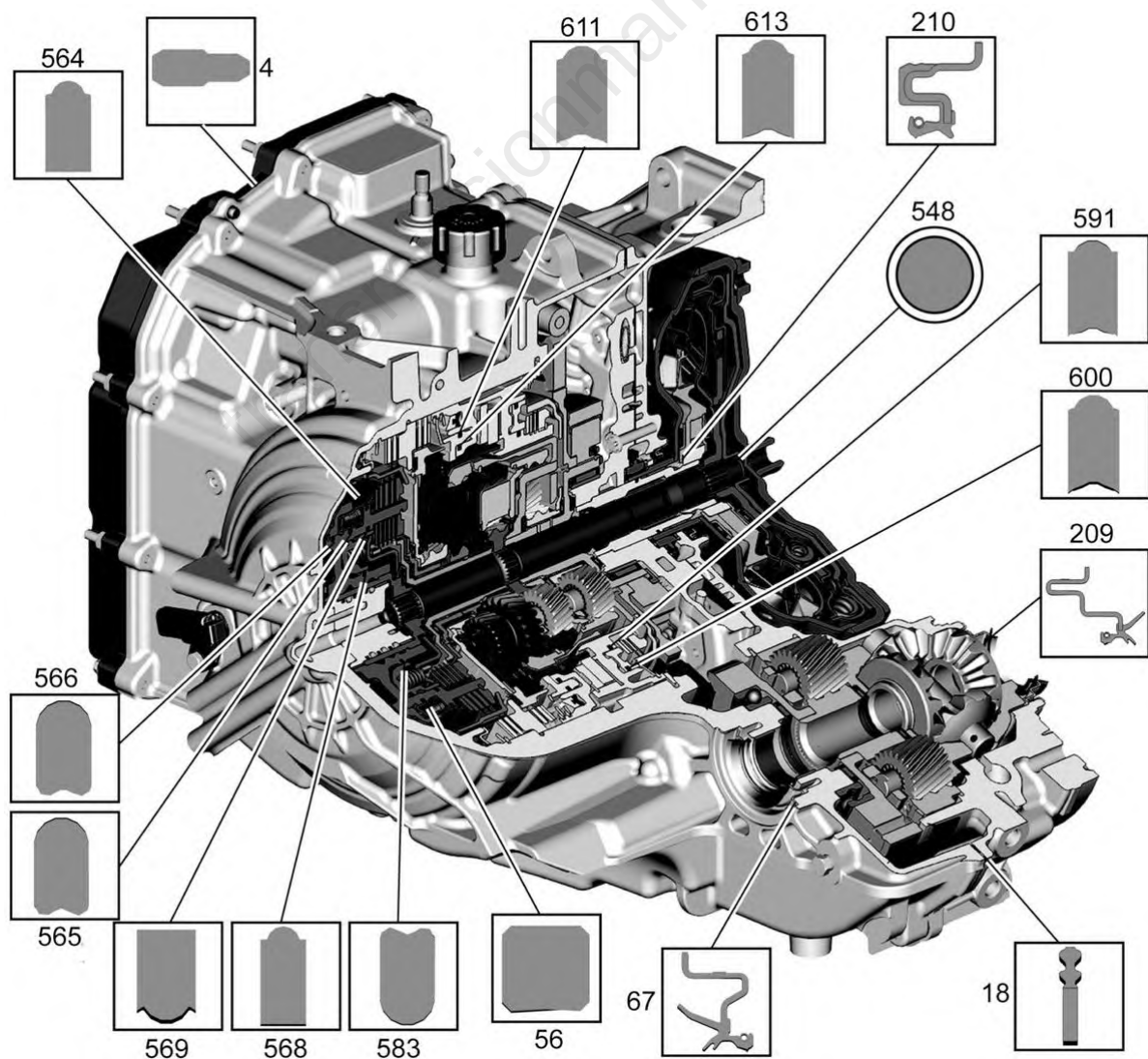


Fig. 19: Exploded View Of Seal Locations (1 Of 2)

Courtesy of GENERAL MOTORS COMPANY

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

Seal Locations (2 of 2)

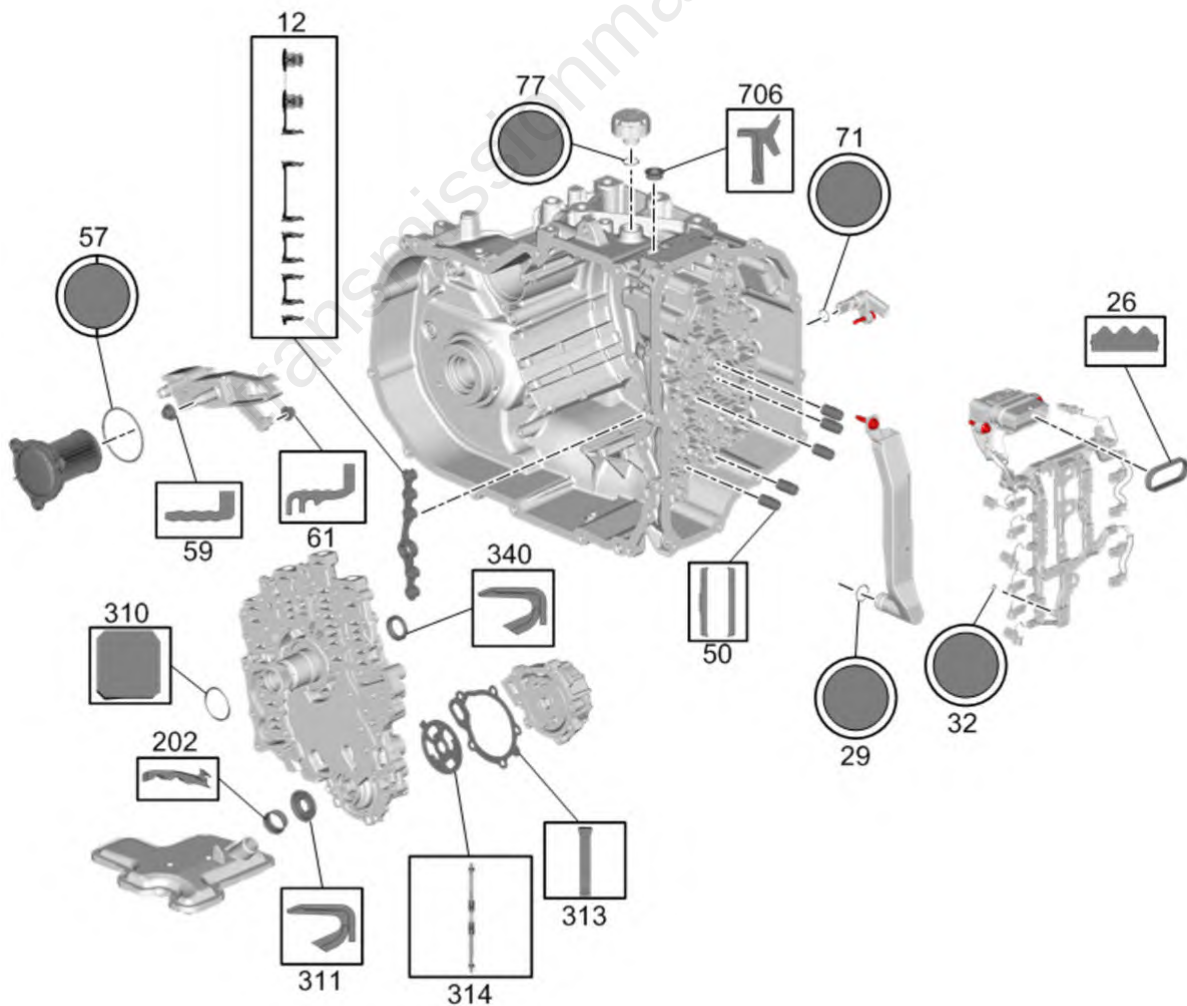


Fig. 20: Exploded View Of Seal Locations (2 Of 2)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
12	Automatic Transmission Fluid Pump Seal
26	Body Side Wiring Harness Opening Seal
29	Fluid Transfer Pipe Seal
32	Automatic Transmission Wiring Harness Seal
50	1-2-3-4 Low and Reverse Clutch Fluid Passage Seal
57	Automatic Transmission Fluid Filter Cover - Seal
59	Drive Link Lubricant Fluid Seal
61	Drive Link Lubricant Fluid Seal
71	Automatic Transmission Input Speed Sensor - Seal
77	Transmission Fluid Filler Cap - Seal
202	Automatic Transmission Fluid Filter Seal
310	Torque Converter Fluid Seal Ring
311	Automatic Transmission Fluid Pump Shaft Seal
313	Automatic Transmission Fluid Pump Gasket
314	Automatic Transmission Fluid Pump Seal
340	Stator Shaft Seal
706	Manual Shift Shaft Seal

Seal Location (Accumulator)

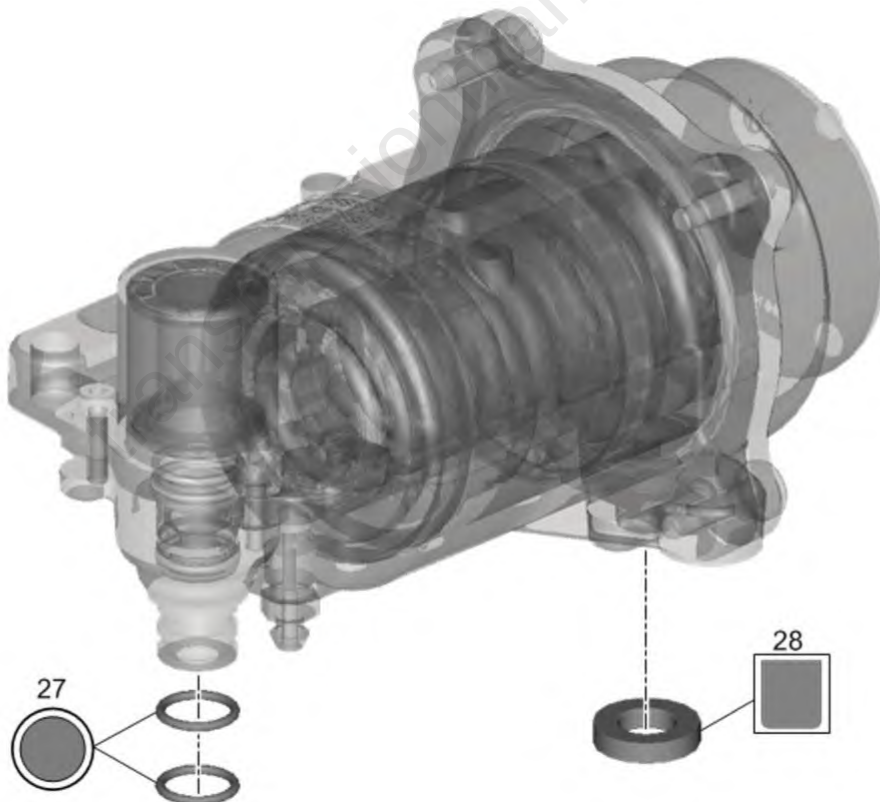


Fig. 21: Seal Component Locations (Accumulator)

Courtesy of GENERAL MOTORS COMPANY

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

BALL CHECK VALVE LOCATIONS

Control Valve Body - Case Side

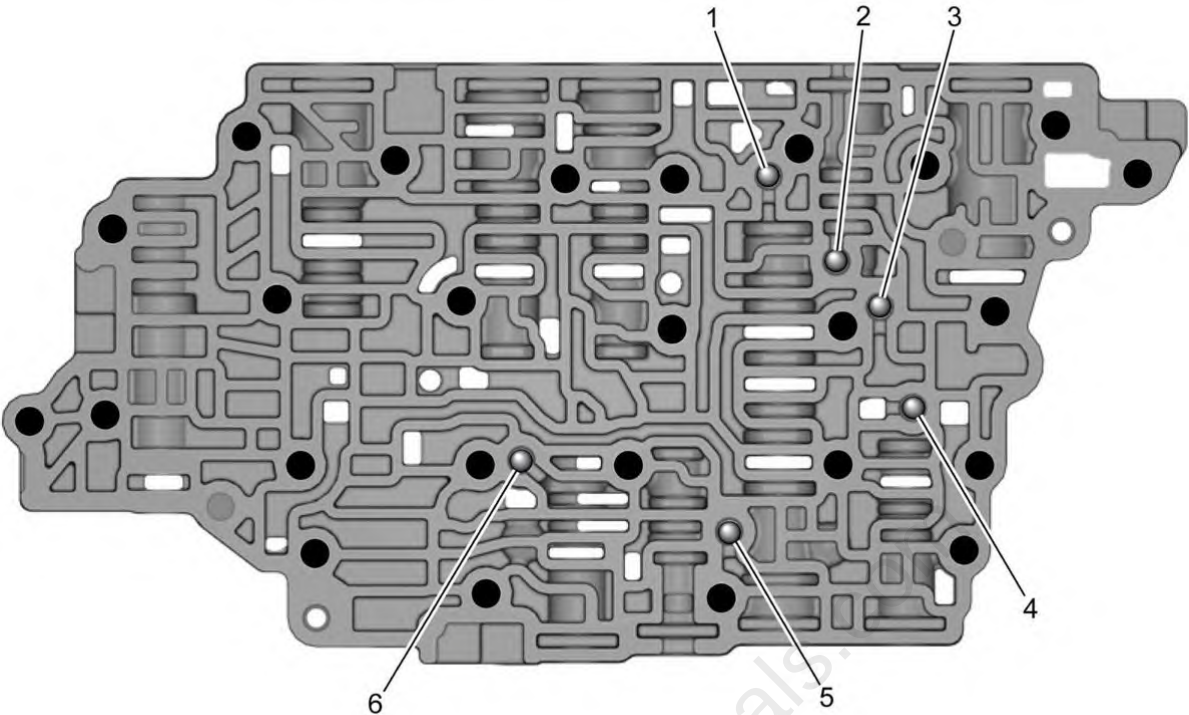


Fig. 22: Control Valve Body Ball Check Valve Locations - Case Side
Courtesy of GENERAL MOTORS COMPANY

Control Valve Body - Case Side

I.D.	Input Oil	Input Oil	Output Oil
1	Clutch Select Solenoid	1 Reverse Apply	Clutch Select Valve Signal
2	1 Reverse Limit	-	1 Reverse Release
3	Drive 2	Reverse / 57R Feed	57 Reverse Clutch Feed
4	57 Reverse Clutch Feed	-	57 Reverse Clutch Feed
5	6789 Clutch	1 Reverse / 6789 Latch	Latch
6	Drive	-	Drive

Control Valve Body - Control Valve Solenoid Side

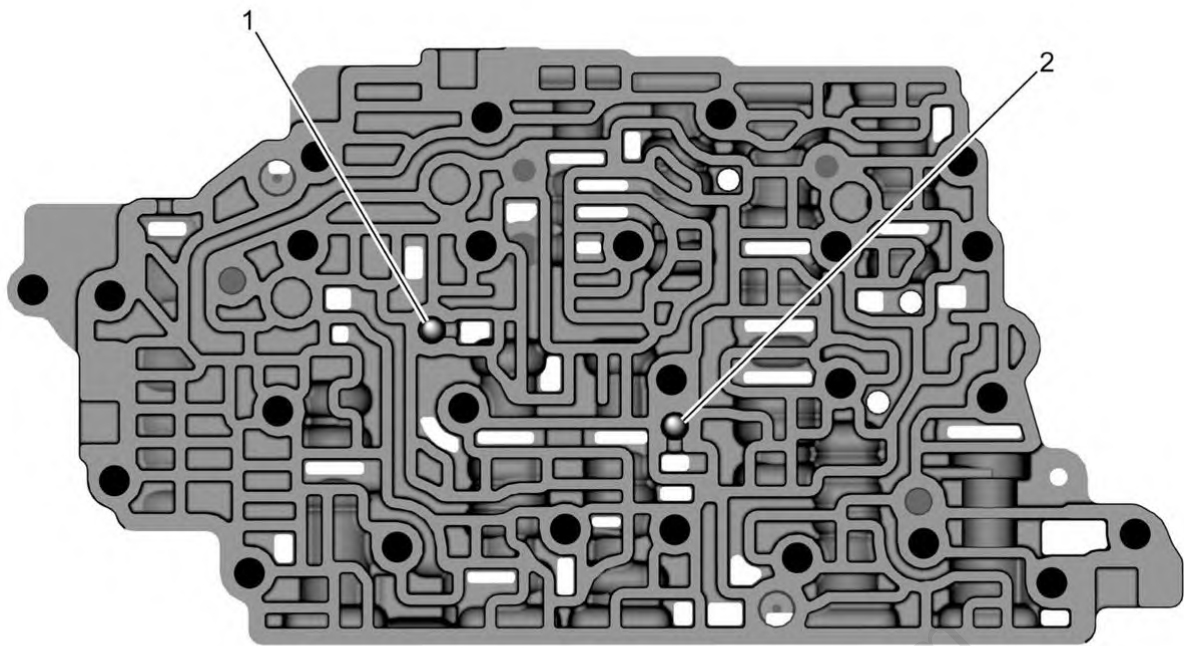


Fig. 23: Control Valve Body Ball Check Valve Locations - Control Valve Solenoid Side
 Courtesy of GENERAL MOTORS COMPANY

Control Valve Body - Control Valve Solenoid Side

I.D.	Input Oil	Input Oil	Output Oil
1	123456CL	-	123456CL
2	29 CL	-	29 CL

Automatic Transmission Case

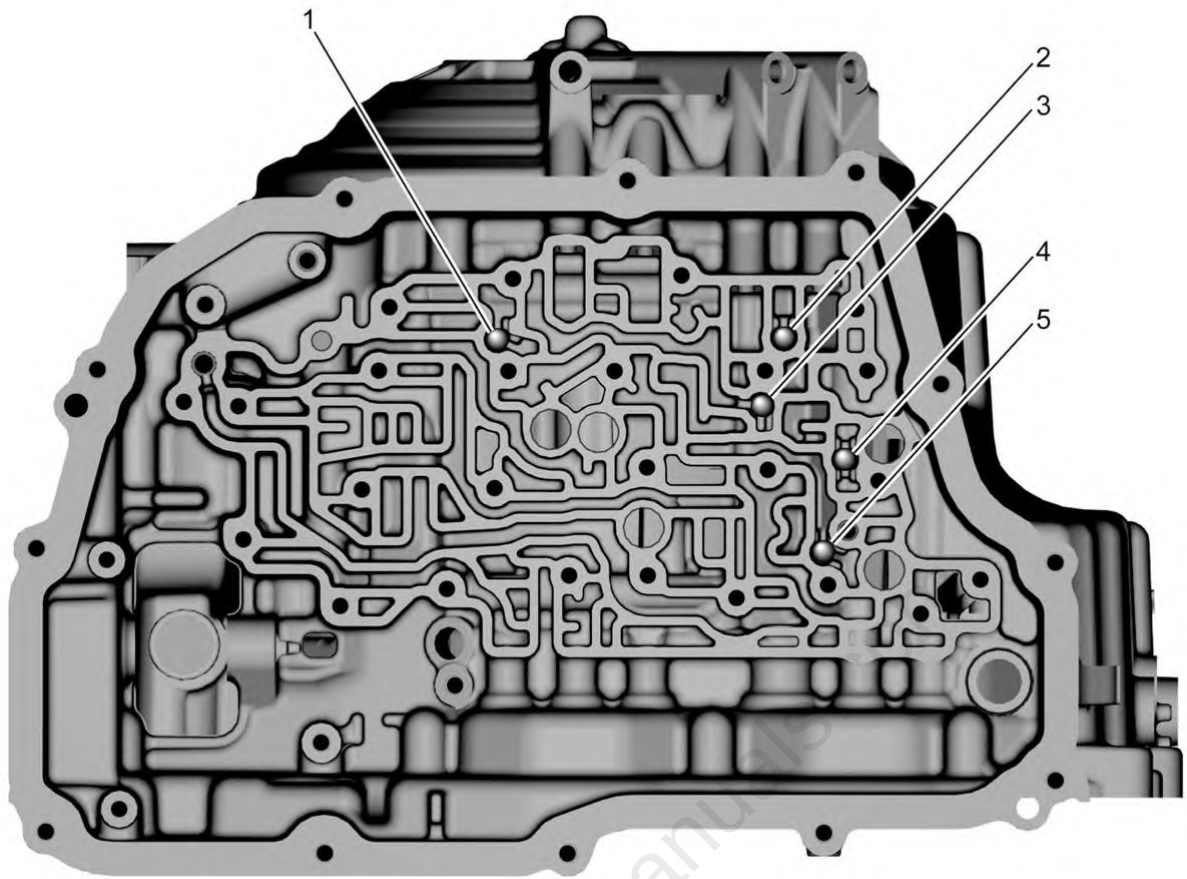


Fig. 24: Automatic Transmission Case Ball Check Valve Locations

Courtesy of GENERAL MOTORS COMPANY

Automatic Transmission Case

I.D.	Input Oil	Input Oil	Output Oil
1	38 CL	-	38 CL
2	57 Rev CL	-	57 Rev CL
3	6789 CL	-	6789 CL
4	1 Rev Limit	-	1 Rev Release
5	1 Rev Feed	-	1 Rev Apply

TRANSMISSION SOLENOID INFORMATION

Transmission Control Solenoids Without ETRS

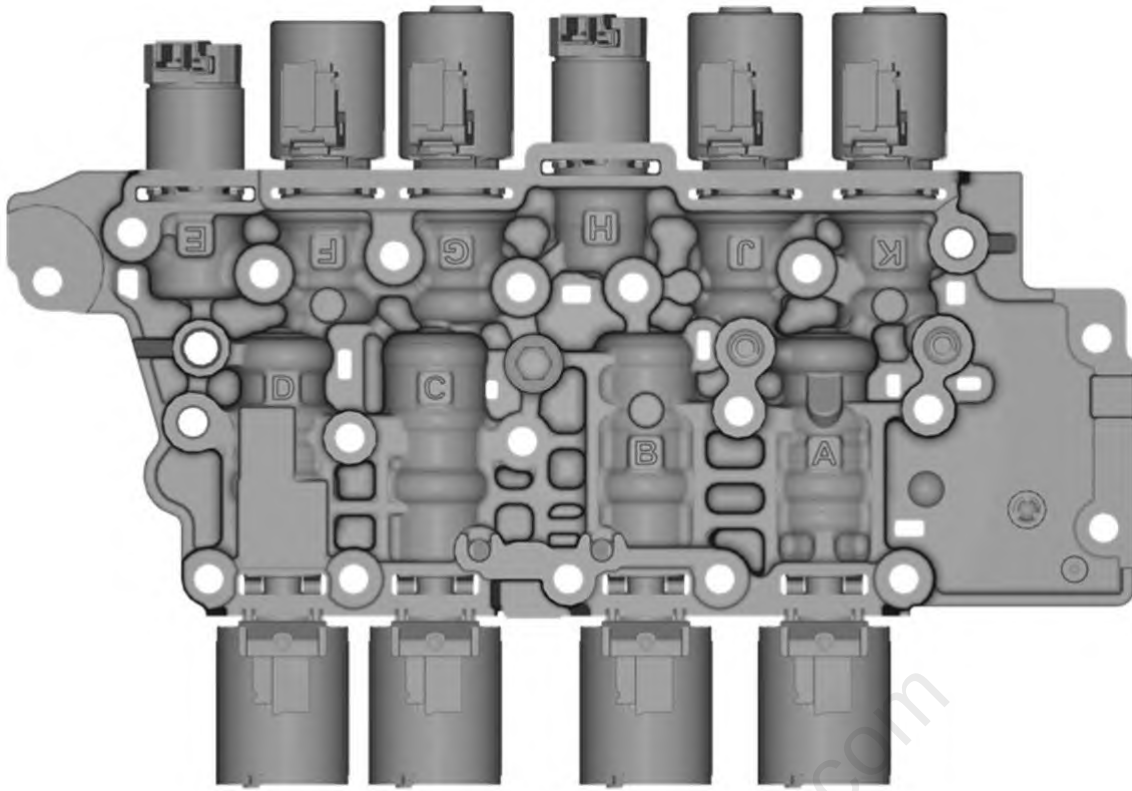


Fig. 25: Identifying Transmission Control Solenoid Locations (Without ETRS)
Courtesy of GENERAL MOTORS COMPANY

Transmission Solenoid Body Without ETRS

Valve Body Bore Location	Solenoid Name	Solenoid Type	Controlled Element	Resistance Value at 20B°C (68B°F)	High Side Driver
A	Q77B Transmission Control Solenoid Valve 2	Normally Low, Linear Force, Pintle Type	2-9 Clutch	5.0 - 5.4Ω	2
B	Q77A Transmission Control Solenoid Valve 1	Normally High, Linear Force, Pintle Type	1-2-3-4-5-6 Clutch	5.0 - 5.4Ω	2
C	Q77F Transmission Control Solenoid Valve 6	Normally High, Linear Force, Pintle Type	1 - R & 6 - 7 - 8 - 9 Clutch Solenoid	5.0 - 5.4Ω	1
D	Q77E Transmission Control Solenoid Valve 5	Normally Low, Linear Force, Pintle Type	5-7-R Clutch	5.0 - 5.4Ω	1
E	Q77K Transmission Control Solenoid Valve 10	Normally Closed, ON - OFF	Fluid Level Control Solenoid	19.0 - 19.6Ω	1
F	Q77G Transmission Control Solenoid Valve 7	Variable Force, Normally High	Line Pressure	5.0 - 5.4Ω	2
G	Q77H Transmission Control Solenoid Valve 8	Variable Force, Normally Low	Torque Converter Clutch (TCC)	5.0 - 5.4Ω	2
H	Q77J Transmission Control Solenoid Valve 9	Normally Closed, ON - OFF	Clutch Select Valve	19.0 - 19.6Ω	1
J	Q77D Transmission Control Solenoid Valve 4	Variable Force, Normally Low	4th Clutch	5.0 - 5.4Ω	2
K	Q77C Transmission Control Solenoid Valve 3	Variable Force, Normally Low	3 - 8 Clutch	5.0 - 5.4Ω	2

Transmission Control Solenoids With ETRS

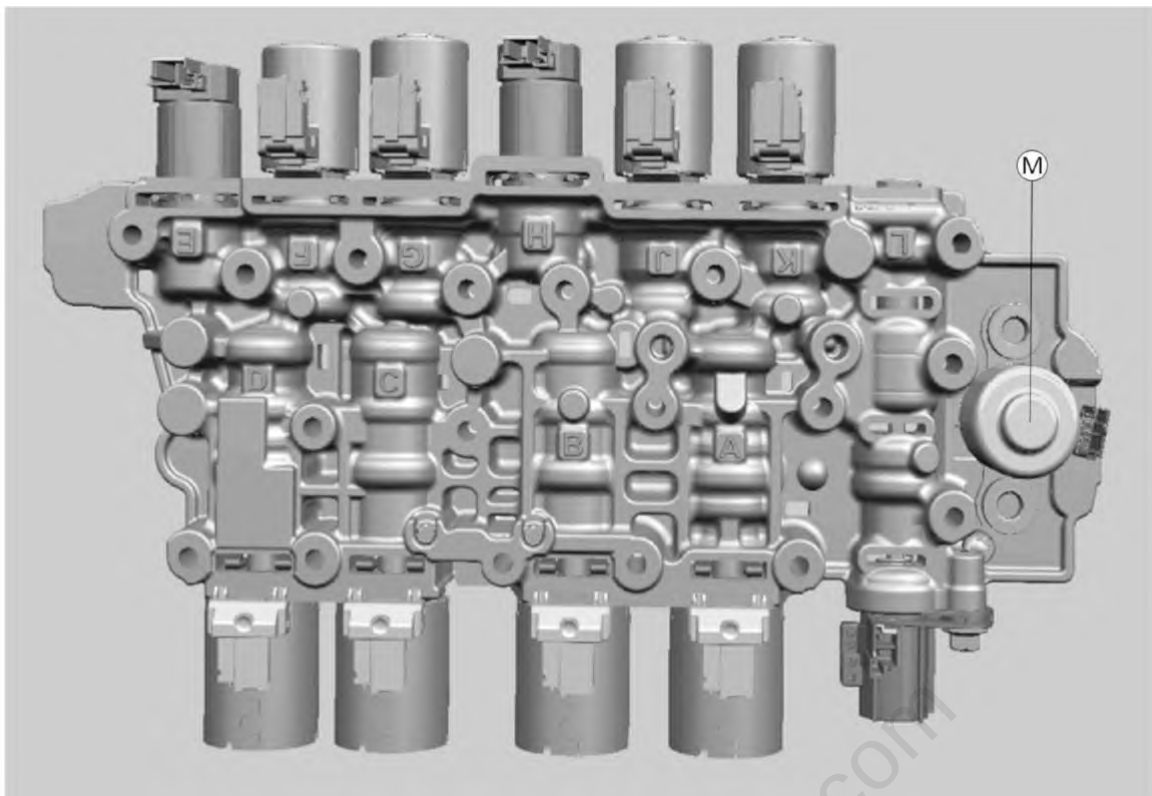


Fig. 26: Identifying Transmission Control Solenoids Location (With ETRS)

Courtesy of GENERAL MOTORS COMPANY

Transmission Solenoid Body With ETRS

Valve Body Bore Location	Solenoid Name	Solenoid Type	Controlled Element	Resistance Value at 20B°C (68B°F)	High Side Driver
A	Q77B Transmission Control Solenoid Valve 2	Normally Low, Linear Force, Pintle Type	2-9 Clutch	5.0 - 5.4Ω	2
B	Q77A Transmission Control Solenoid Valve 1	Normally High, Linear Force, Pintle Type	1-2-3-4-5-6 Clutch	5.0 - 5.4Ω	2
C	Q77F Transmission Control Solenoid Valve 6	Normally High, Linear Force, Pintle Type	1 - R & 6 - 7 - 8 - 9 Clutch Solenoid	5.0 - 5.4Ω	1
D	Q77E Transmission Control Solenoid Valve 5	Normally Low, Linear Force, Pintle Type	5-7-R Clutch	5.0 - 5.4Ω	1
E	Q77K Transmission Control Solenoid Valve 10	Normally Closed, ON - OFF	Fluid Level Control Solenoid	19.0 - 19.6Ω	1
F	Q77G Transmission Control Solenoid Valve 7	Variable Force, Normally High	Line Pressure	5.0 - 5.4Ω	2
G	Q77H Transmission Control Solenoid Valve 8	Variable Force, Normally Low	Torque Converter Clutch (TCC)	5.0 - 5.4Ω	2
H	Q77J Transmission Control Solenoid Valve 9	Normally Closed, ON - OFF	Clutch Select Valve	19.0 - 19.6Ω	1
J	Q77D Transmission Control Solenoid	Variable Force, Normally Low	4th Clutch	5.0 - 5.4Ω	2

Valve Body Bore Location	Solenoid Name	Solenoid Type	Controlled Element	Resistance Value at 20B°C (68B°F)	High Side Driver
	Valve 4				
K	Q77C Transmission Control Solenoid Valve 3	Variable Force, Normally Low	3 - 8 Clutch	5.0 - 5.4Ω	2
L	B315A Transmission Range Control Valve 1 Position Switch	-	-	-	-
M	M123 Transmission Park Valve Lock Solenoid Actuator	On/Off	Park Inhibit Solenoid Control	17.5 - 19.5Ω	2

Transmission Control Solenoids With Start/Stop

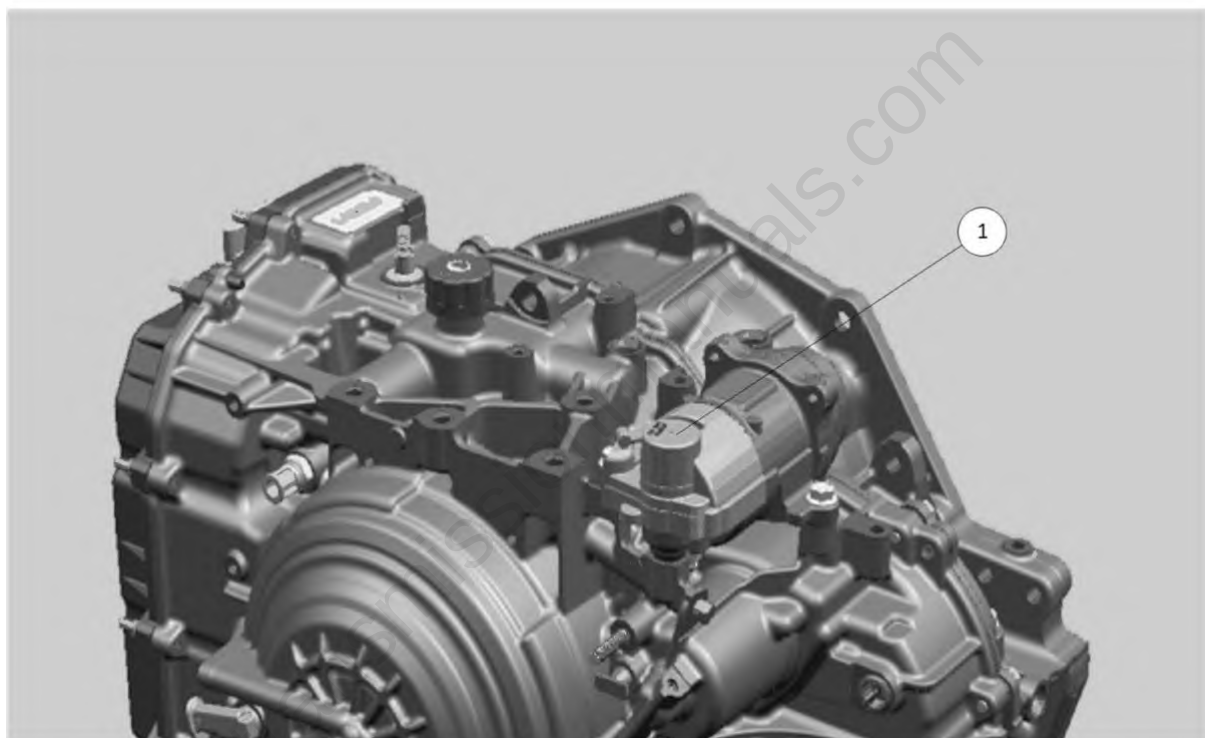


Fig. 27: Identifying Transmission Control Solenoids Location (With Start/Stop).

Courtesy of GENERAL MOTORS COMPANY

Transmission Control Start/Stop Solenoid

Solenoid Location	Solenoid Name	Solenoid Type	Controlled Element	Resistance Value at 20B°C (68B°F)	High Side Driver
1	B280 Automatic Transmission Accumulator Solenoid Valve	On/Off	Accumulator - Autostop	17.3 - 18.7Ω	1