

2010 Transmission

Automatic Transmission - 6T30/6T40/6T45 - Equinox & Terrain

COMPONENT LOCATOR

DISASSEMBLED VIEWS

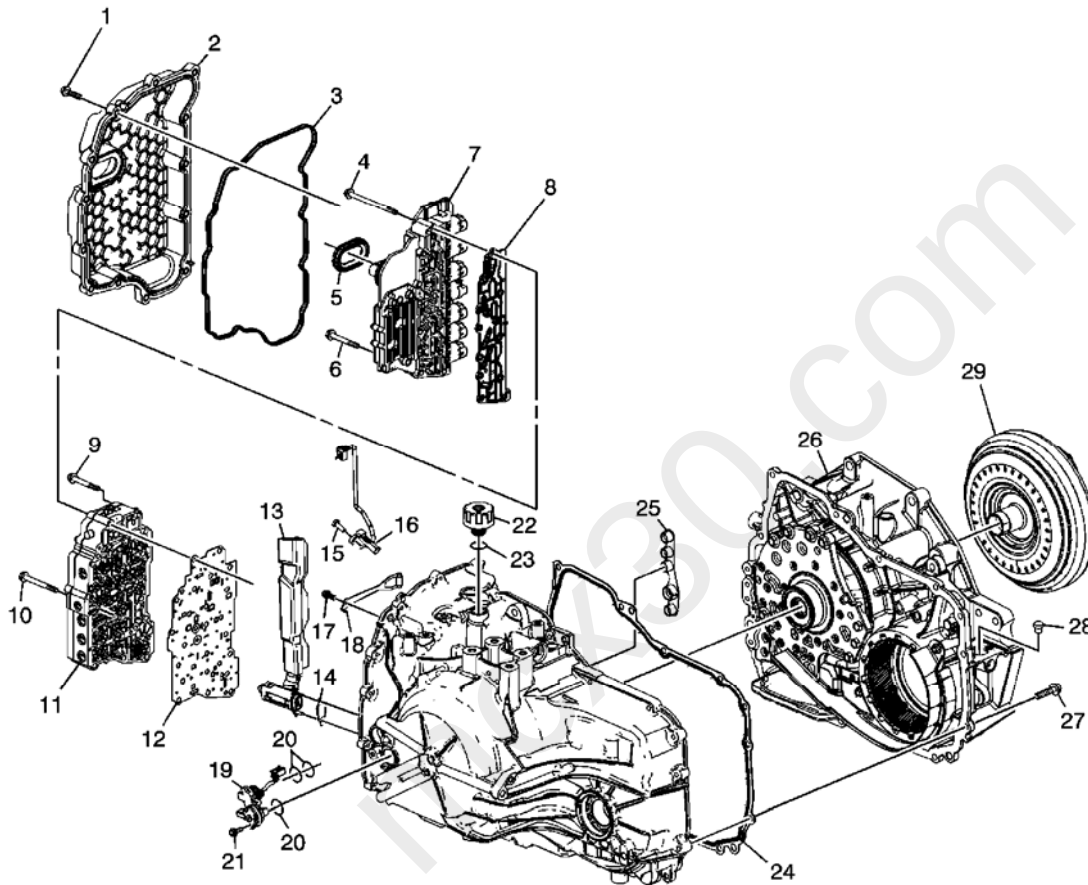


Fig. 1: Case and Associated Parts

Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	Control Valve Body Cover Bolt
2	Control Valve Body Cover Assembly
3	Control Valve Body Cover Gasket
4	Control Valve Body Bolt
5	Control Valve Body Cover Hole Seal
6	Control Solenoid Valve Heat Sink Bolt
7	Control Solenoid (w/Body and TCM) Valve Assembly

8	Control Valve Body Filter Plate Assembly
9	Control Valve Body Bolt
10	Control Valve Body Bolt
11	Control Valve Body Assembly
12	Control Valve Body Spacer Plate Assembly
13	A/Trans Fluid Level Control Valve
14	A/Trans Fluid Level Control Valve Gasket
15	A/Trans Output Speed Sensor Bolt
16	A/Trans Output Speed Sensor Assembly
17	Manual Shaft Detent Spring Bolt
18	Manual Shaft Detent Lever Spring Assembly
19	A/Trans Input Speed Sensor Assembly
20	A/Trans Input Speed Sensor Assembly O-Ring Seal
21	A/Trans Input Speed Sensor Bolt
22	Fill Cap
23	Fill Cap Seal
24	Torque Converter Housing Gasket
25	A/Trans Fluid Pump Seal Assembly
26	Torque Converter with Fluid Pump Housing Assembly
27	Torque Converter and Differential Housing Bolt
28	A/Trans Fluid Fill Tube Plug Assembly
29	Torque Converter Assembly

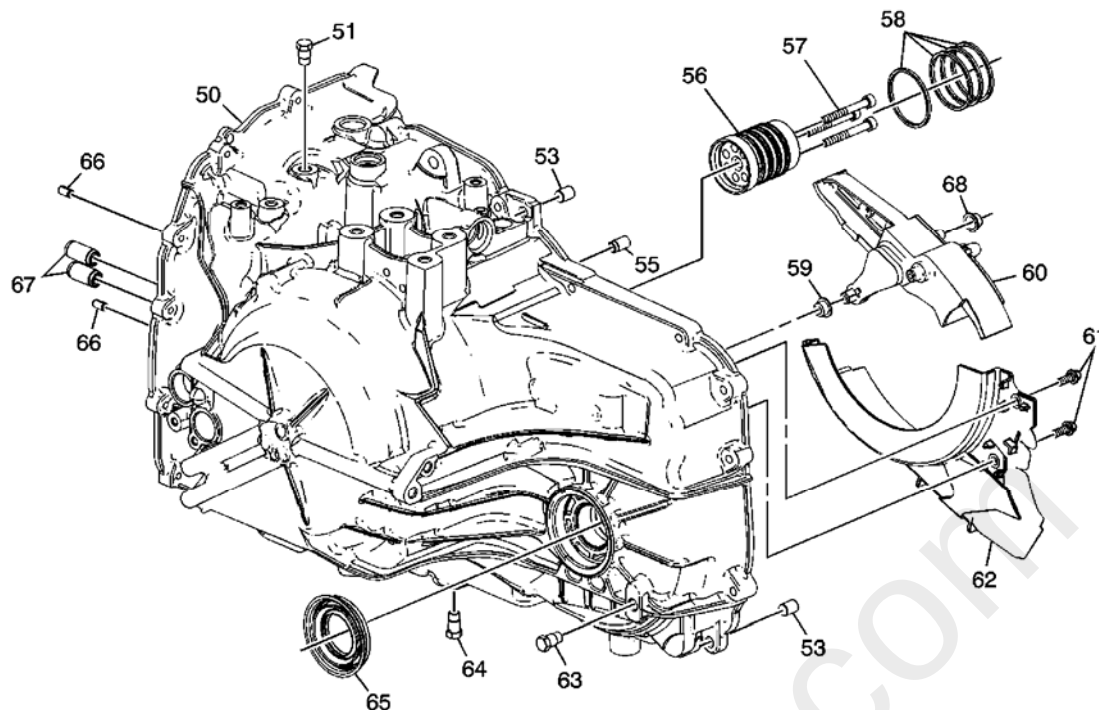


Fig. 2: Transmission Case Assembly
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
50	A/Trans Case Assembly
51	A/Trans Fluid Pressure Test Hole Plug
53	Transmission Case Cover Locator Pin
55	A/Trans Fluid Check Ball
56	Input Shaft Support
57	Input Shaft Support Bolt
58	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
59	Drive Link Lube Fluid Seal
60	Drive Link Lube Scoop
61	Front Differential Carrier Baffle Bolt
62	Front Differential Carrier Baffle
63	Oil Level Plug
64	Drain Plug
65	Drive Shaft Oil Seal Assembly
66	Control Valve Body Locator Pin
67	1-2-3-4 and Low Reverse Clutch Fluid Passage Seal
68	Drive Link Lube Fluid Seal

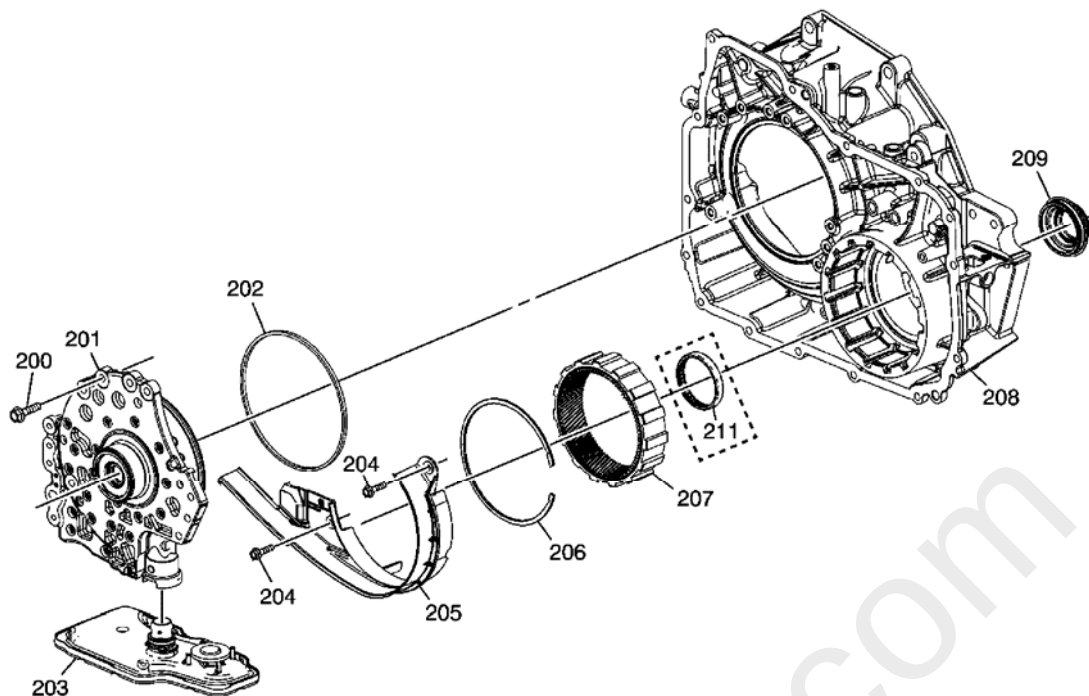


Fig. 3: Torque Converter & Fluid Pump Housing Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
200	A/Trans Fluid Pump Bolt
201	A/Trans Fluid Pump Assembly
202	Torque Converter and Differential Housing Seal
203	A/Trans Fluid Filter Assembly
204	Front Differential Carrier Baffle Bolt
205	Front Differential Carrier Baffle
206	Front Differential Ring Gear Retainer
207	Front Differential Ring Gear
208	Torque Converter and Differential Housing
209	Front Wheel Drive Shaft Oil Seal Assembly
211	Front Differential Carrier Bearing Assembly AWD Models

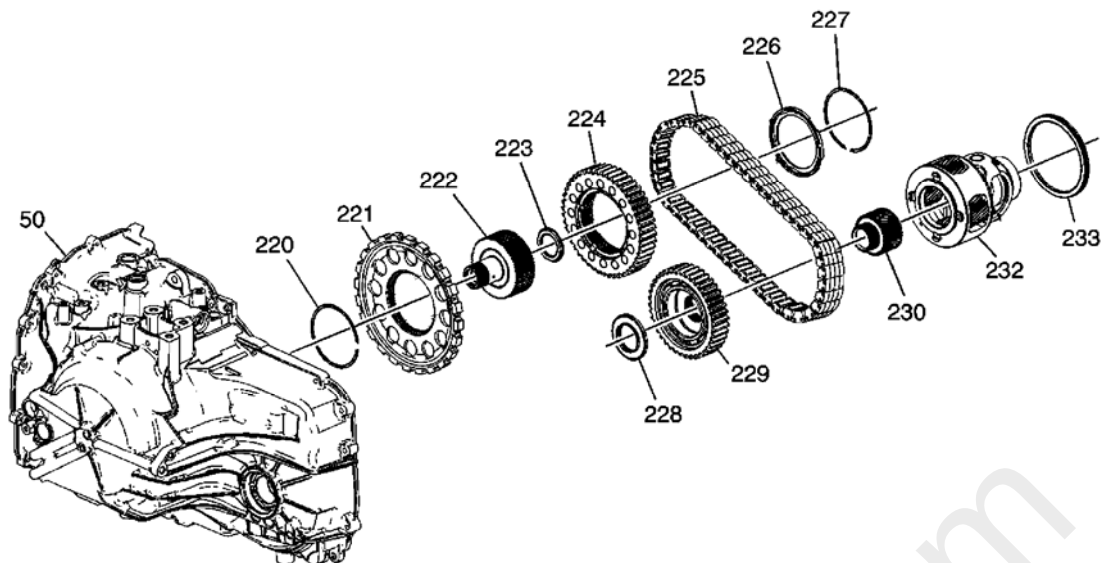


Fig. 4: Drive Link Assembly
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
50	A/Trans Case
220	Park Gear Retainer Ring
221	Park Gear
222	Output Carrier Transfer Drive Gear Hub
223	Drive Sprocket Bearing Assembly
224	Drive Sprocket
225	Drive Link Assembly
226	Drive Sprocket Thrust Washer
227	Drive Sprocket Retainer Ring
228	Driven Sprocket Bearing Assembly
229	Driven Sprocket
230	Final Drive Sun Gear
232	Differential Carrier Assembly
233	Front Differential Carrier Bearing Assembly

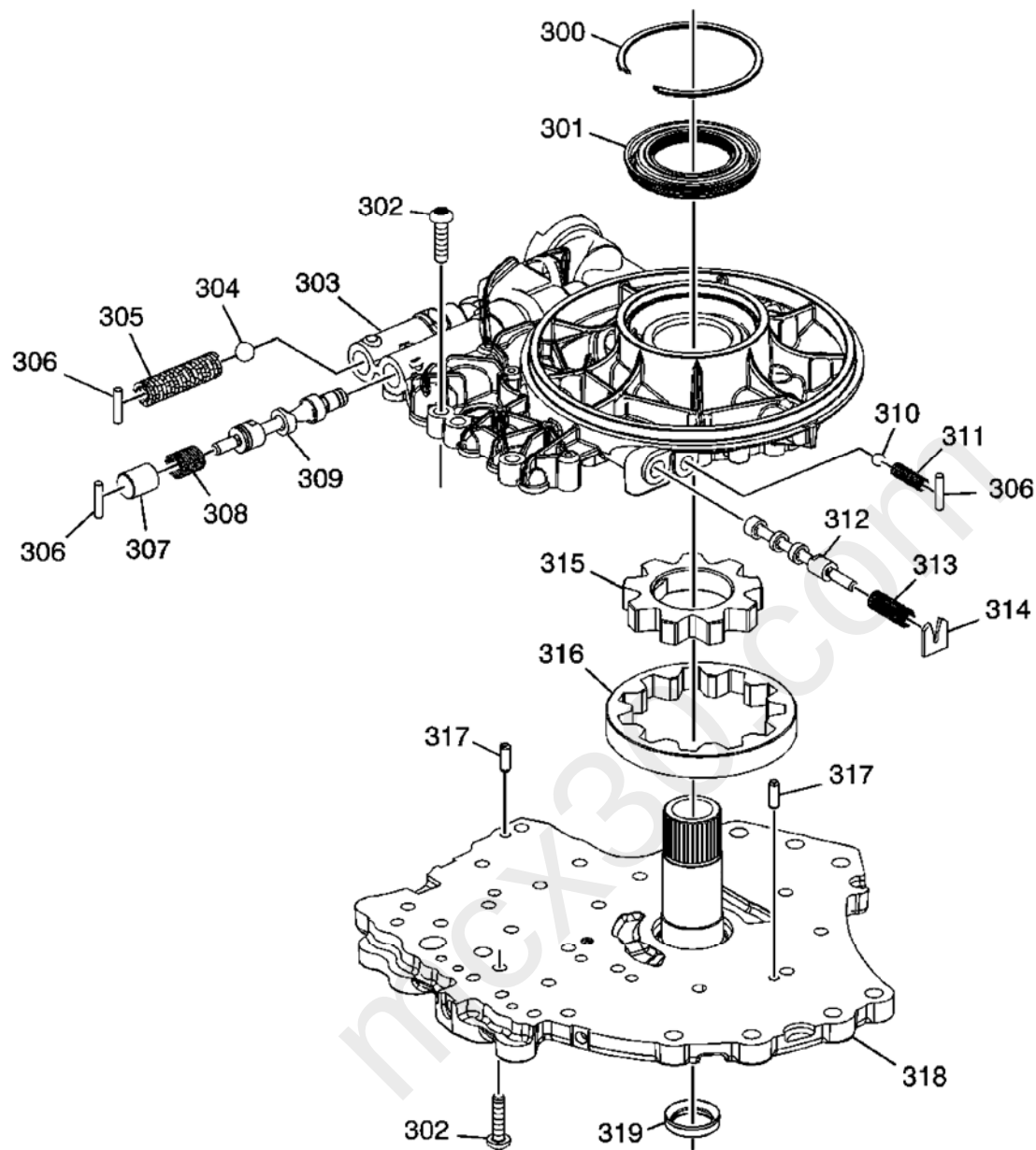


Fig. 5: Oil Pump Assembly
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
300	Torque Converter Fluid Seal Retainer
301	Torque Converter Fluid Seal Assembly
302	A/Trans Fluid Pump Cover Bolt
303	A/Trans Fluid Pump Body
304	Pump Blowoff Ball Valve
305	Pump Blowoff Valve Spring

306	Pressure Regulator Valve Bore Plug Retainer
307	Pressure Regulator Valve Bore Plug
308	Pressure Regulator Valve Spring
309	Pressure Regulator Valve
310	Torque Converter Clutch Blowoff Ball Valve
311	Torque Converter Clutch Blowoff Ball Valve Spring
312	Torque Converter Clutch Control Valve
313	Torque Converter Clutch Control Valve Spring
314	Torque Converter Clutch Control Valve Spring Retainer
315	A/Trans Fluid Pump Drive Gear
316	A/Trans Fluid Pump Driven Gear
317	Cover to Body Locating Pin
318	A/Trans Fluid Pump Cover Assembly
319	Torque Converter Fluid Seal Assembly

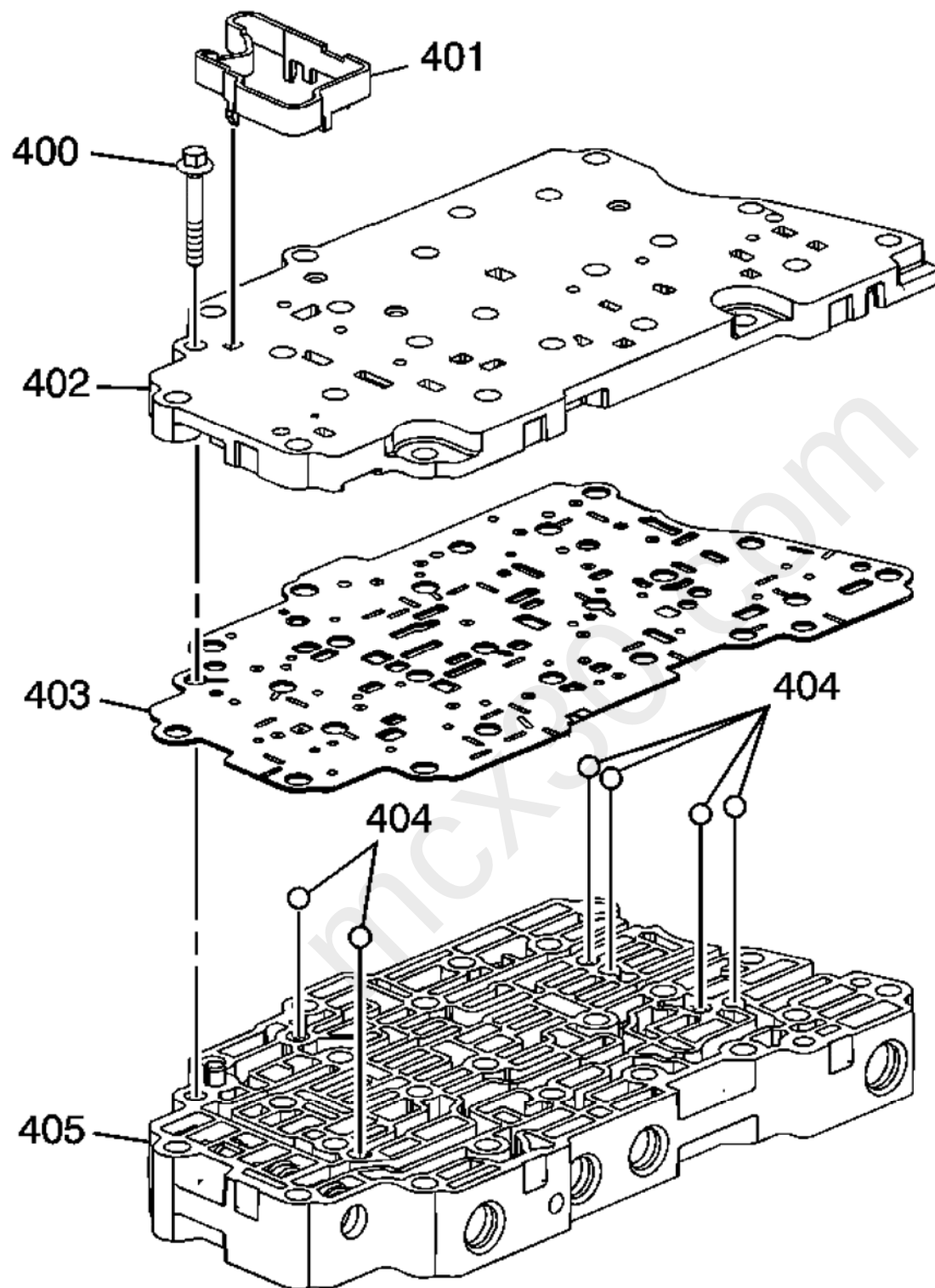


Fig. 6: Control Valve Body Assembly (1 of 2)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
400	Control Valve Body Bolt
401	Control Solenoid Valve Support
402	Valve Channel Plate
403	Channel Plate to Valve Body Spacer Plate Assembly
404	Control Valve Body Ball Check Valve
405	Control Valve Body Assembly

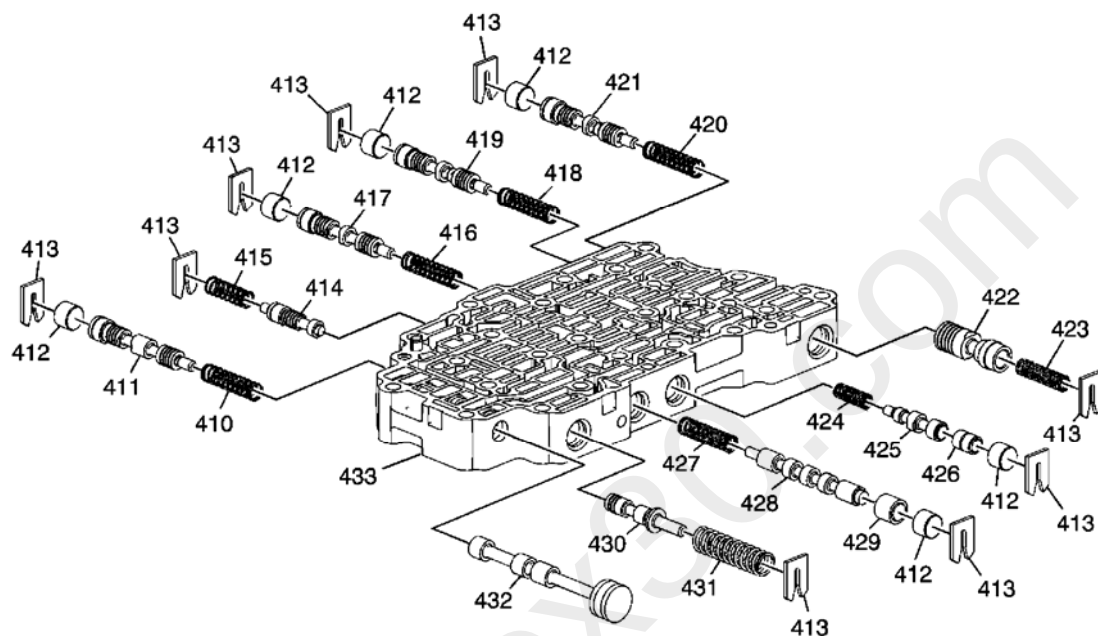


Fig. 7: Control Valve Body Assembly (2 of 2)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
410	Reverse and 4-5-6 Clutch Regulator Valve Spring
411	Reverse and 4-5-6 Clutch Regulator Valve
412	Clutch Valve Bore Plug
413	Valve Spring Retainer
414	1-2-3-4 Clutch Boost Valve
415	1-2-3-4 Clutch Boost Valve Spring
416	1-2-3-4 Clutch Regulator Valve Spring
417	1-2-3-4 Clutch Regulator Valve
418	2-6 Clutch Regulator Valve Spring
419	2-6 Clutch Regulator Valve
420	3-5-Reverse Clutch Regulator Valve Spring
421	3-5-Reverse Clutch Regulator Valve

422	Clutch Piston Dam Feed Regulator Valve
423	Clutch Piston Dam Feed Regulator Valve Spring
424	Torque Converter Clutch Regulator Apply Valve Spring
425	Torque Converter Clutch Regulator Apply Valve
426	Torque Converter Clutch Regulator Apply Shuttle Valve
427	Clutch Select Valve Spring
428	Clutch Select Valve
429	Default Override Shuttle Valve
430	Actuator Feed Limit Valve
431	Actuator Feed Limit Valve Spring
432	Manual Valve
433	Control Valve Body Assembly

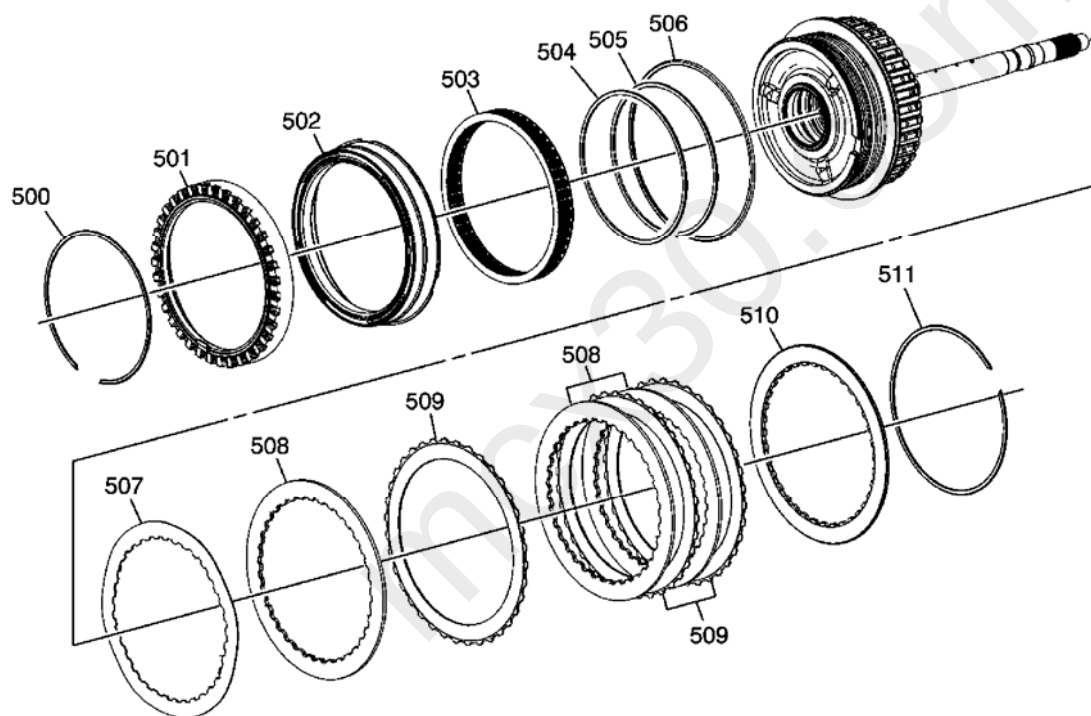


Fig. 8: 3-5 Reverse Clutch Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
500	A/Trans Input Shaft Speed Sensor Reluctor Wheel Retainer Ring
501	A/Trans Input Shaft Speed Sensor Reluctor Wheel
502	3-5-Reverse Clutch Piston
503	3-5-Reverse Clutch Piston Return Spring Assembly
504	3-5-Reverse Clutch Piston Inner Seal

505	3-5-Reverse Clutch Piston Inner Seal
506	3-5-Reverse Clutch Piston Dam Seal
507	3-5-Reverse Clutch Apply Plate
508	3-5-Reverse Clutch Plate
509	3-5-Reverse Clutch (w/Friction Material) Plate Assembly
510	3-5-Reverse Clutch Backing Plate
511	3-5-Reverse Clutch Backing Plate Retainer Ring

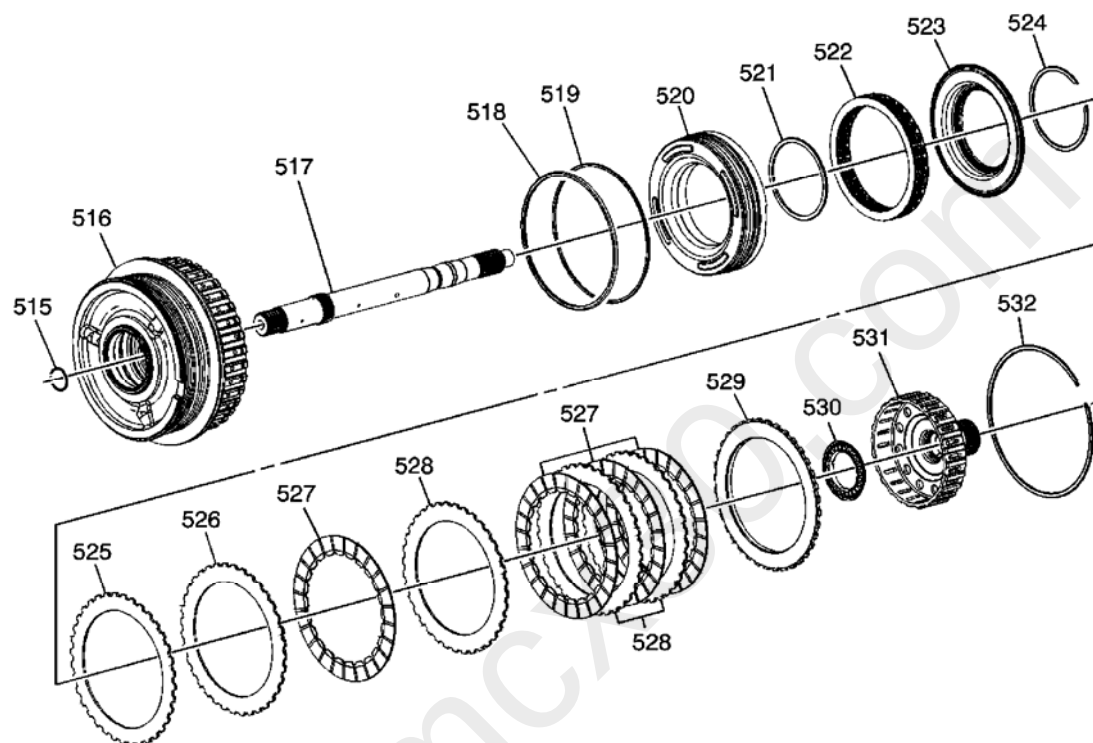


Fig. 9: 4-5-6 Clutch Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
515	Turbine Shaft Retainer Ring
516	3-5-Reverse and 4-5-6 Clutch Housing Assembly
517	Turbine Shaft
518	4-5-6 Clutch Piston Outer Seal
519	4-5-6 Clutch Piston Outer Seal
520	4-5-6 Clutch Piston
521	4-5-6 Clutch Piston Inner Seal
522	4-5-6 Clutch Piston Return Spring Assembly
523	4-5-6 Clutch Piston Fluid Dam Assembly
524	4-5-6 Clutch Piston Fluid Dam Retainer Ring

525	4-5-6 Clutch (Waved) Plate
526	4-5-6 Clutch Apply Plate
527	4-5-6 Clutch (w/Friction Material) Plate Assembly
528	4-5-6 Clutch Plate
529	4-5-6 Clutch Backing Plate
530	Reaction Carrier Hub Thrust Bearing Assembly
531	Reaction Carrier Hub Assembly
532	4-5-6 Clutch Backing Plate Retainer Ring

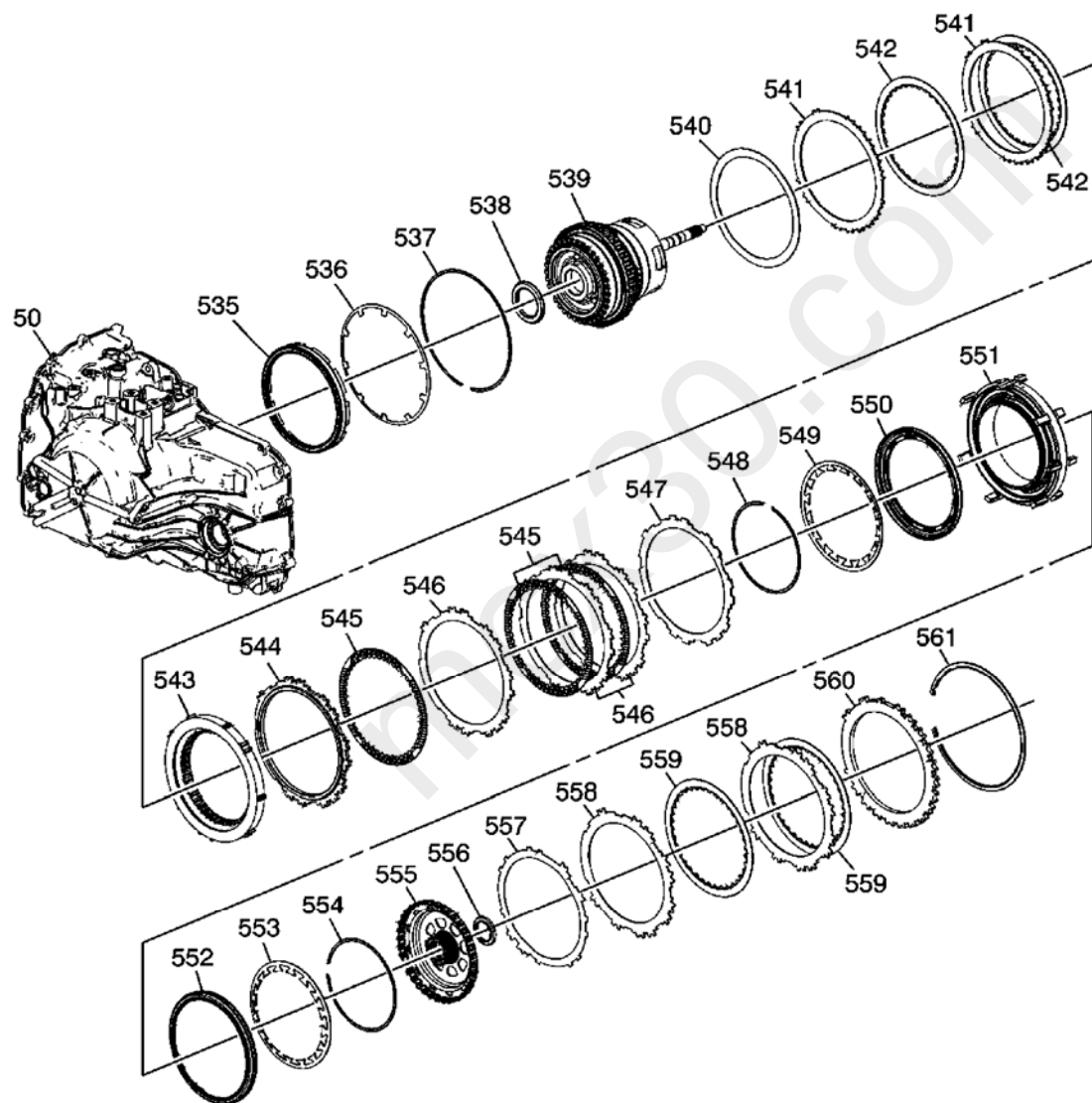


Fig. 10: 2-6, Low & Reverse and 1-2-3-4 Clutch Plate Assemblies
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
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50	A/Trans Case
535	2-6 Clutch Piston Assembly
536	2-6 Clutch Spring
537	2-6 Clutch Spring Retainer Ring
538	3-5-Reverse and 4-5-6 Clutch Housing Thrust Bearing
539	3-5-Reverse and 4-5-6 Clutch Housing Assembly
540	2-6 Clutch Apply (Waved) Plate
541	2-6 Clutch Plate
542	2-6 Clutch (w/Friction Material) Plate Assembly
543	Low and Reverse Clutch Assembly
544	Low and Reverse Clutch Backing Plate
545	Low and Reverse Clutch (w/Friction Material) Plate Assembly
546	Low and Reverse Clutch Plate
547	Low and Reverse Clutch Apply (Waved) Plate
548	Low and Reverse Clutch Spring Retainer
549	Low and Reverse Clutch Spring
550	Low and Reverse Clutch Piston
551	Low and Reverse and 1-2-3-4 Clutch Housing
552	1-2-3-4 Clutch Piston
553	1-2-3-4 Clutch Spring
554	1-2-3-4 Clutch Piston Retainer
555	Output Sun Gear Assembly
556	Output Sun Thrust Bearing Assembly
557	1-2-3-4 Clutch (Waved) Plate
558	1-2-3-4 Clutch Plate
559	1-2-3-4 Clutch (w/Friction Material) Plate Assembly
560	1-2-3-4 Clutch Backing Plate
561	1-2-3-4 Clutch Backing Plate Retainer Ring

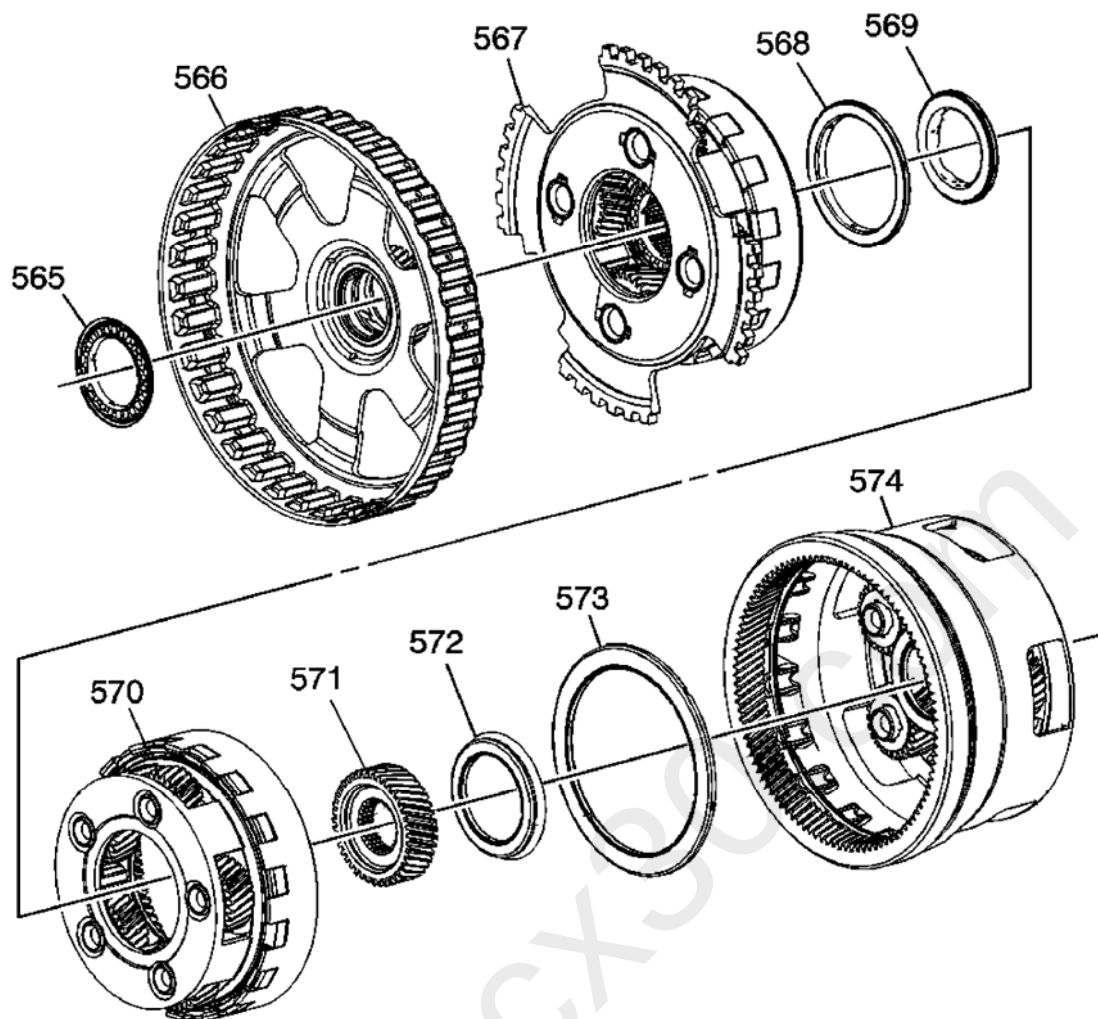


Fig. 11: Input, Output & Reaction Gearsets
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
565	Reaction Sun Gear Thrust Bearing Assembly
566	Reaction Sun Gear Assembly
567	Reaction Carrier Assembly
568	Input Carrier Thrust Bearing Assembly
569	Input Sun Gear Thrust Bearing Assembly
570	Input Carrier Assembly
571	Input Sun Gear
572	Input Sun Gear Thrust Bearing Assembly
573	Output Carrier Thrust Bearing Assembly
574	Output Carrier Assembly

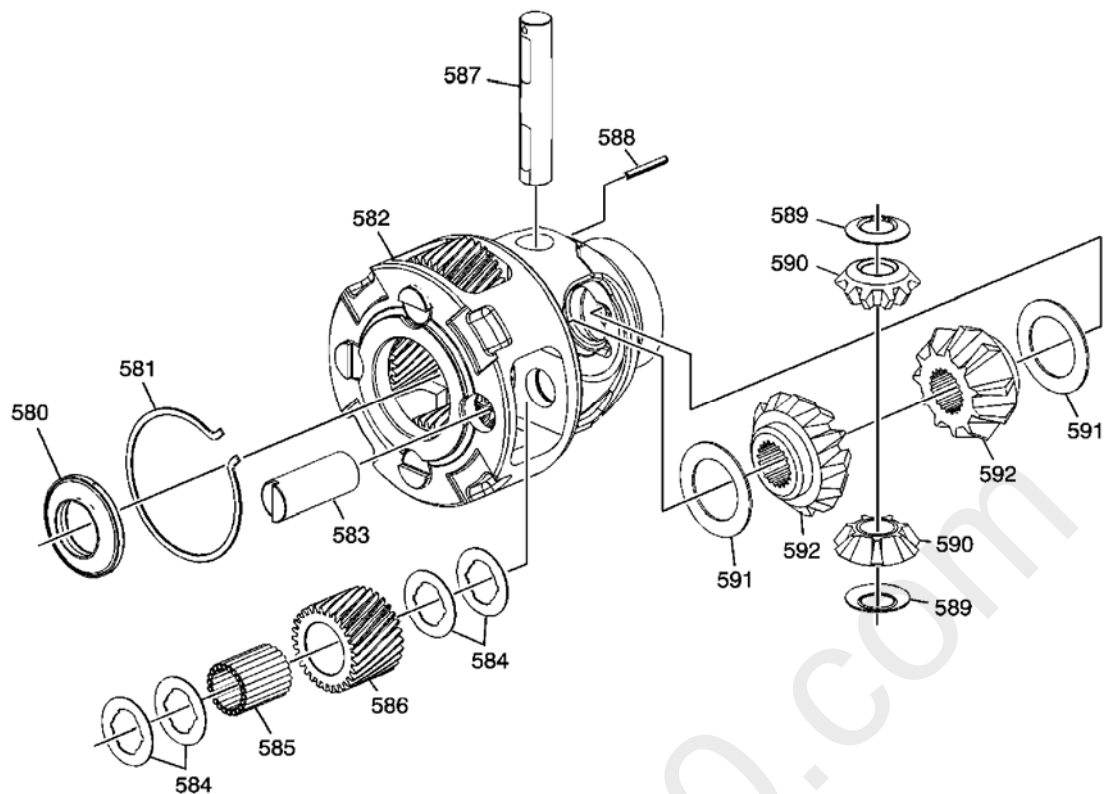


Fig. 12: Front Differential Carrier Assembly (2 Pinion)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
580	Differential Sun Gear to Differential Housing Bearing Assembly
581	Final Drive Retainer
582	Differential Carrier Assembly
583	Final Drive Pinion Pin
584	Final Drive Inner and Outer Washer
585	Final Drive Roller
586	Pinion Final Drive Gear
587	Front Differential Pinion Gear Shaft
588	Front Differential Pinion Gear Shaft Pin
589	Front Differential Pinion Gear Thrust Washer
590	Front Differential Pinion Gear
591	Front Differential Side Gear Thrust Washer
592	Front Differential Side Gear

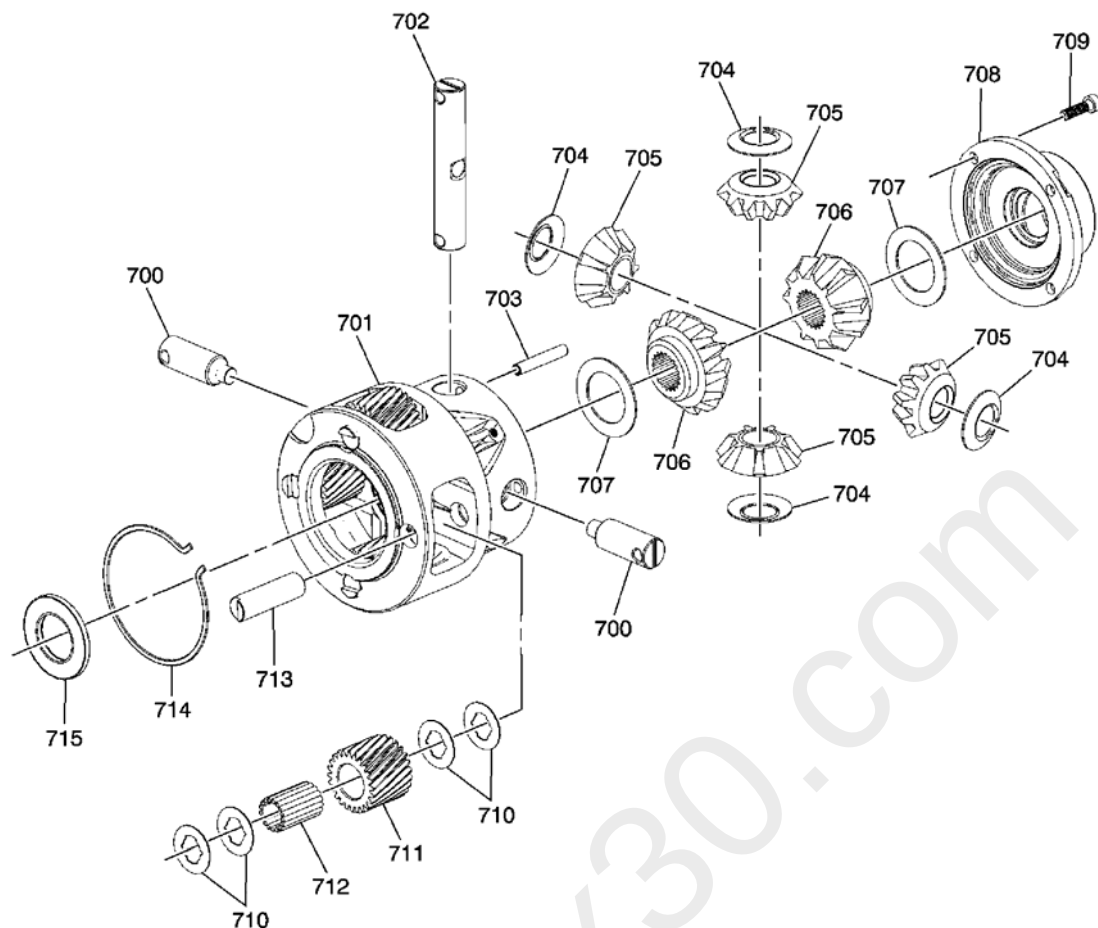


Fig. 13: Front Differential Carrier Assembly (4 Pinion)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
700	Front Differential Pinion Gear Shaft
701	Differential Carrier Assembly
702	Front Differential Pinion Gear Shaft
703	Front Differential Pinion Gear Shaft
704	Front Differential Pinion Thrust Washer
705	Front Differential Pinion Gear
706	Front Differential Side Gear
707	Front Differential Side Gear Thrust Washer
708	Front Differential Carrier Cover
709	Front Differential Carrier Cover Bolts
710	Front Differential Pinion Gear Shaft Washer
711	Front Differential Drive Pinion Gear
712	Front Differential Carrier Pinion Gear Bearing Rollers

713	Front Differential Pinion Gear Shaft Pin
714	Front Differential Pinion Gear Shaft Retainer
715	Front Differential Bearing

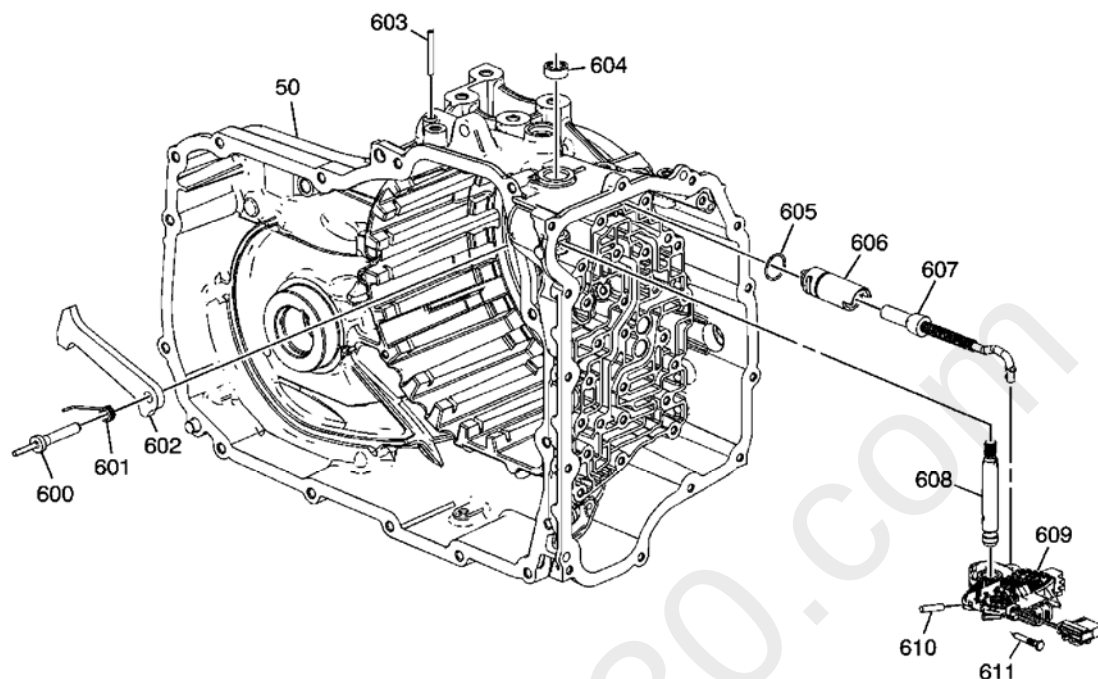


Fig. 14: Park System Components
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
50	A/Trans Case
600	Park Pawl Shaft
601	Park Pawl Spring
602	Park Pawl
603	Park Pawl Actuator Guide Pin
604	Manual Shift Shaft Seal
605	Park Pawl Actuator Guide Seal
606	Park Pawl Actuator Guide
607	Park Pawl Actuator Assembly
608	Manual Shift Detent Lever Shaft
609	Manual Shift Detent (w/Shaft Position Switch) Lever Assembly
610	Manual Shift Detent Lever Pin
611	Manual Shift Shaft Pin

COMPONENT LOCATION

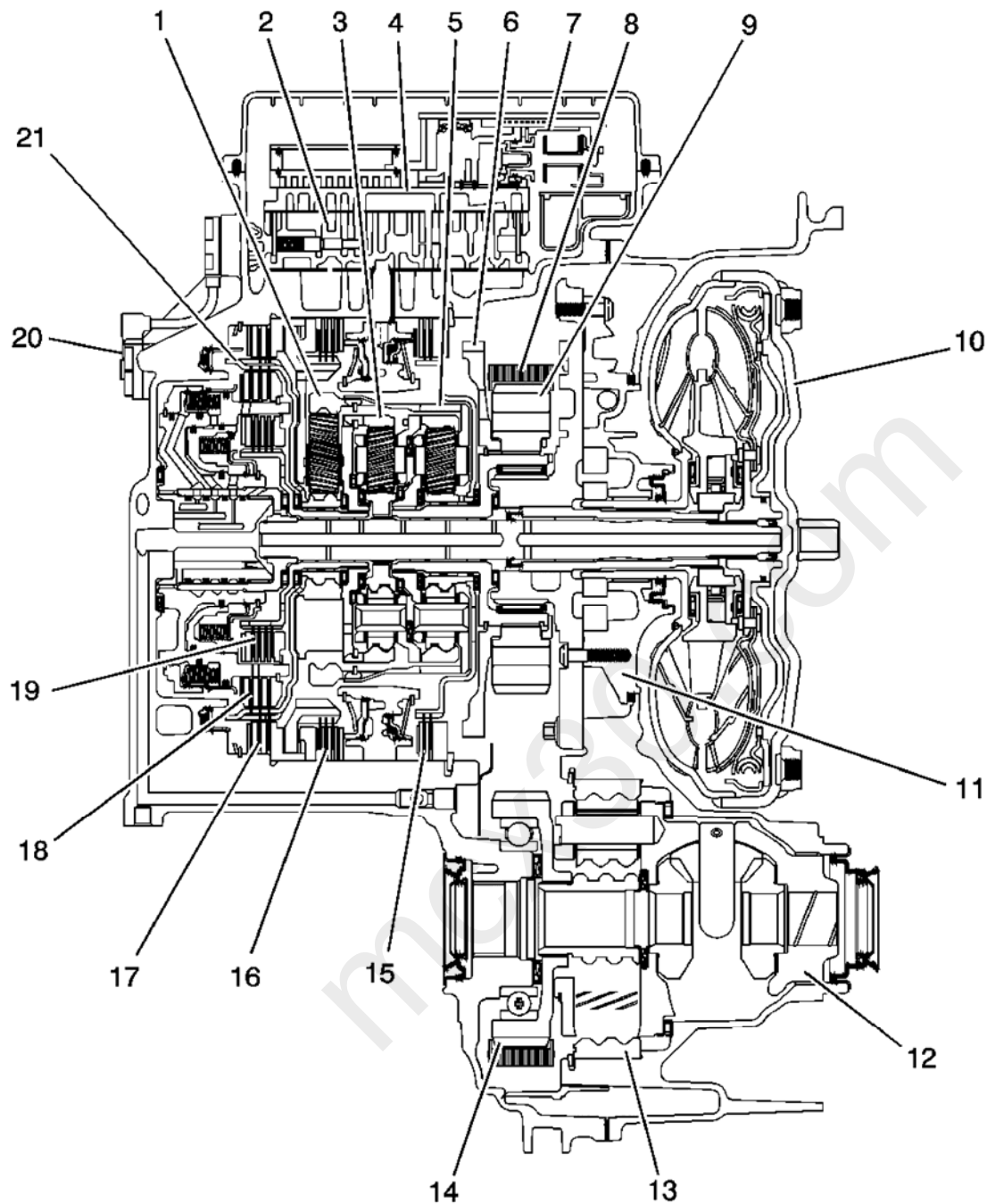


Fig. 15: Component Location

Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	Reaction Carrier Assembly
2	Control Valve Body Assembly
3	Input Carrier Assembly

4	Valve Channel Plate
5	Output Carrier Assembly
6	Park Gear
7	Control Solenoid (w/Body and TCM) Valve Assembly
8	Drive Link Assembly
9	Drive Sprocket
10	Torque Converter Assembly
11	A/Trans Fluid Pump Assembly
12	Differential Carrier Assembly
13	Front Differential Ring Gear
14	Driven Sprocket
15	1-2-3-4 Clutch Assembly
16	Low and Reverse Clutch Assembly
17	2-6 Clutch Assembly
18	3-5 Reverse Clutch Assembly
19	4-5-6 Clutch Assembly
20	A/Trans Input Speed Sensor Assembly
21	Reaction Sun Gear Assembly

BUSHING, BEARING, AND WASHER LOCATIONS

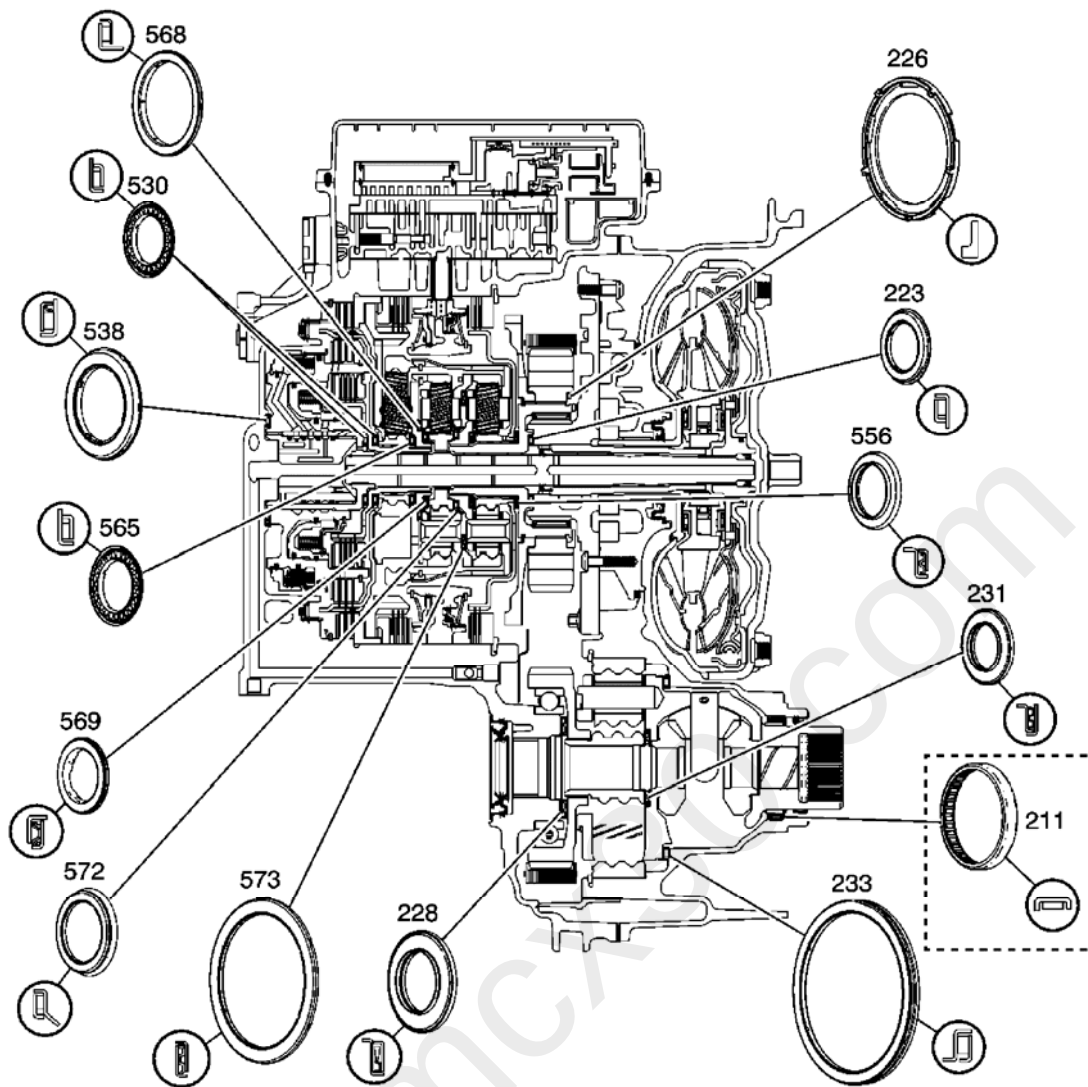


Fig. 16: Bushing, Bearing, & Washer Locations
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
211	Front Differential Carrier Bearing Assembly AWD Models
223	Drive Spocket Bearing Assembly
226	Drive Spocket Thrust Washer
228	Drive Spocket Bearing Assembly
231	Differential Sun Gear to Differential Housing Bearing Assembly
233	Front Differential Carrier Bearing Assembly
530	Reaction Carrier Hub Thrust Bearing Assembly
538	3-5-Reverse and 4-5-6 Clutch Housing Thrust Bearing
556	Output Sun Thrust Bearing Assembly

565	Reaction Sun Gear Thrust Bearing Assembly
568	Input Carrier Thrust Bearing Assembly
569	Input Sun Gear Thrust Bearing Assembly
572	Input Sun Gear Thrust Bearing Assembly
573	Output Carrier Thrust Bearing Assembly

SEAL LOCATIONS

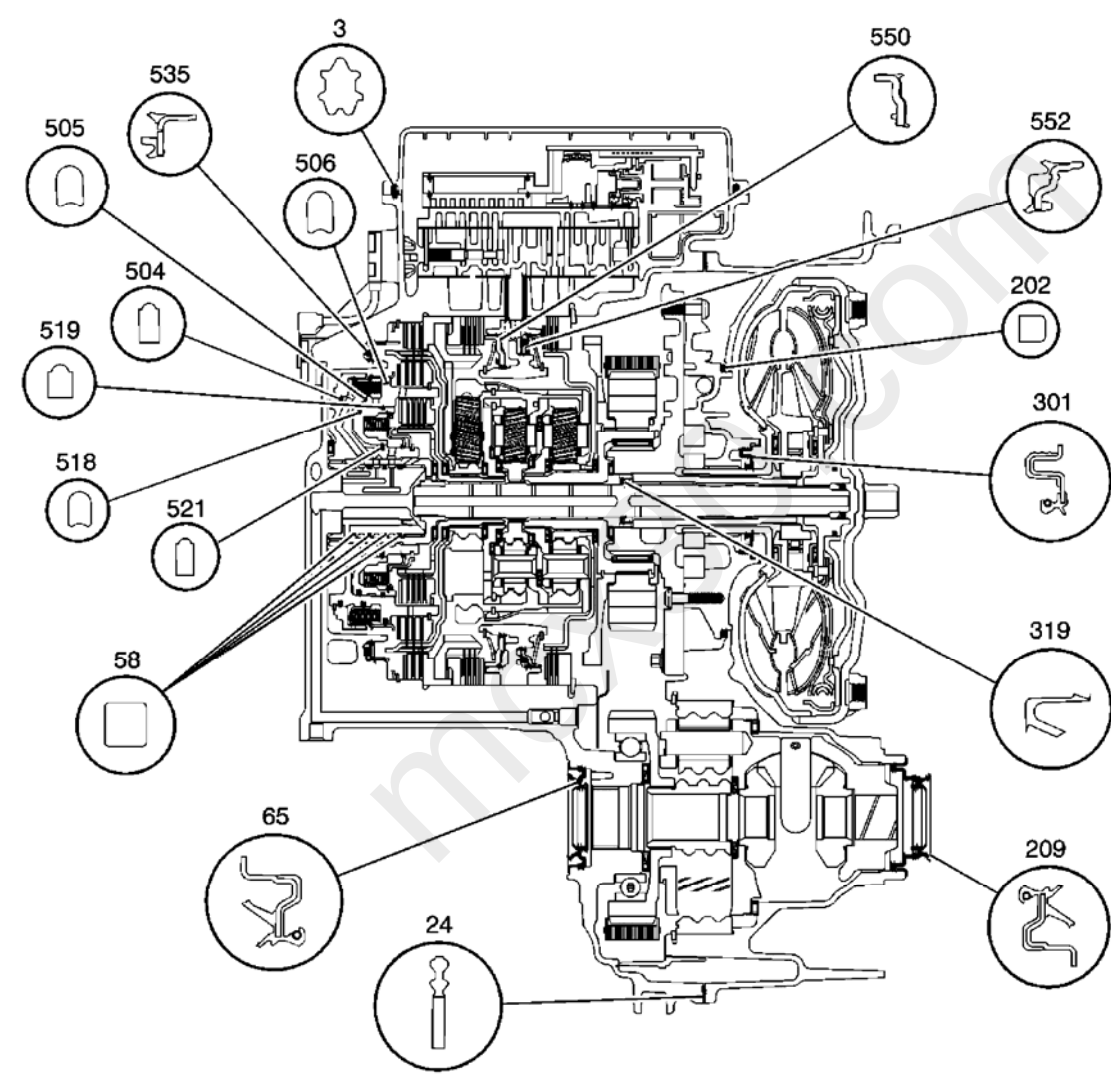


Fig. 17: Seal Locations (1 of 2)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
3	Control Valve Body Cover Gasket
24	Torque Converter Housing Gasket

58	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
65	Drive Shaft Oil Seal Assembly
202	Torque Converter and Differential Housing Seal
209	Front Wheel Drive Shaft Oil Seal Assembly
301	Torque Converter Fluid Seal Assembly
319	Torque Converter Fluid Seal Assembly
504	3-5-Reverse Clutch Piston Inner Seal
505	3-5-Reverse Clutch Piston Inner Seal
506	3-5-Reverse Clutch Piston Dam Seal
518	4-5-6 Clutch Piston Outer Seal
519	4-5-6 Clutch Piston Outer Seal
521	4-5-6 Clutch Piston Inner Seal
535	2-6 Clutch Piston Assembly
550	Low and Reverse Clutch Piston
552	1-2-3-4 Clutch Piston

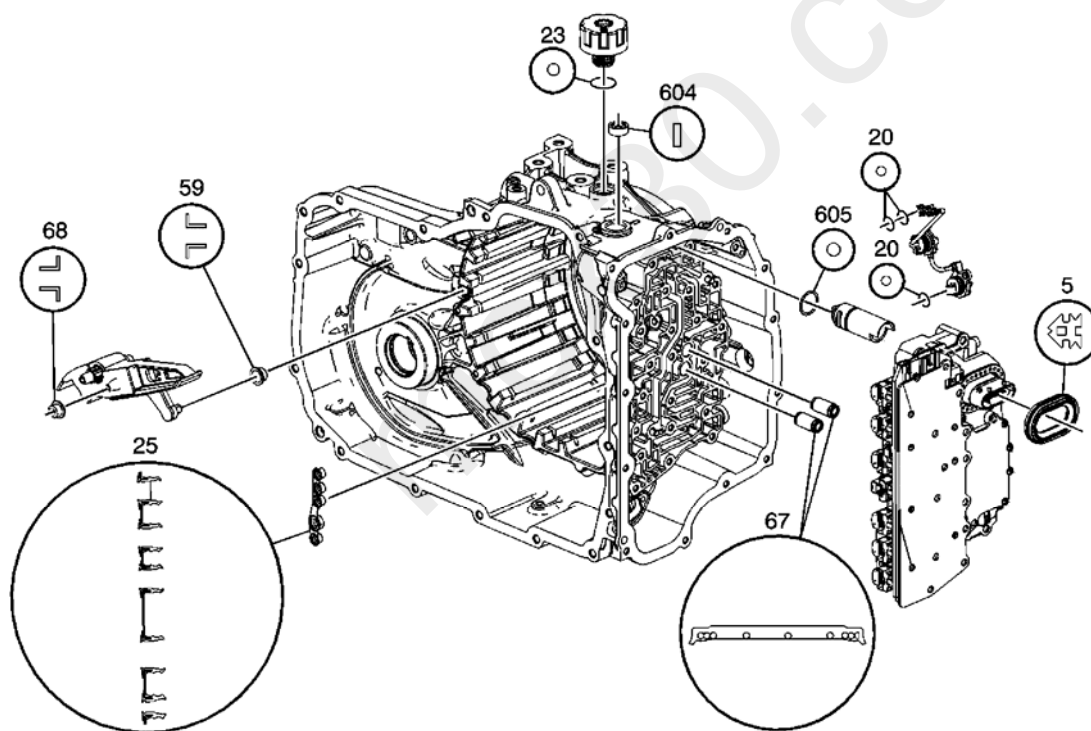


Fig. 18: Seal Locations (2 of 2)
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
5	Control Valve Body Cover Hole Seal
20	A/Trans Input Speed Sensor Assembly O-Ring Seal

23	Fill Cap Seal
25	A/Trans Fluid Pump Seal Assembly
59	Drive Link Lube Fluid Seal
67	1-2-3-4 and Low Reverse Clutch Fluid Passage
68	Drive Link Lube Fluid Seal
604	Manual Shift Shaft Seal
605	Park Pawl Actuator Guide Seal

BALL CHECK VALVE LOCATIONS

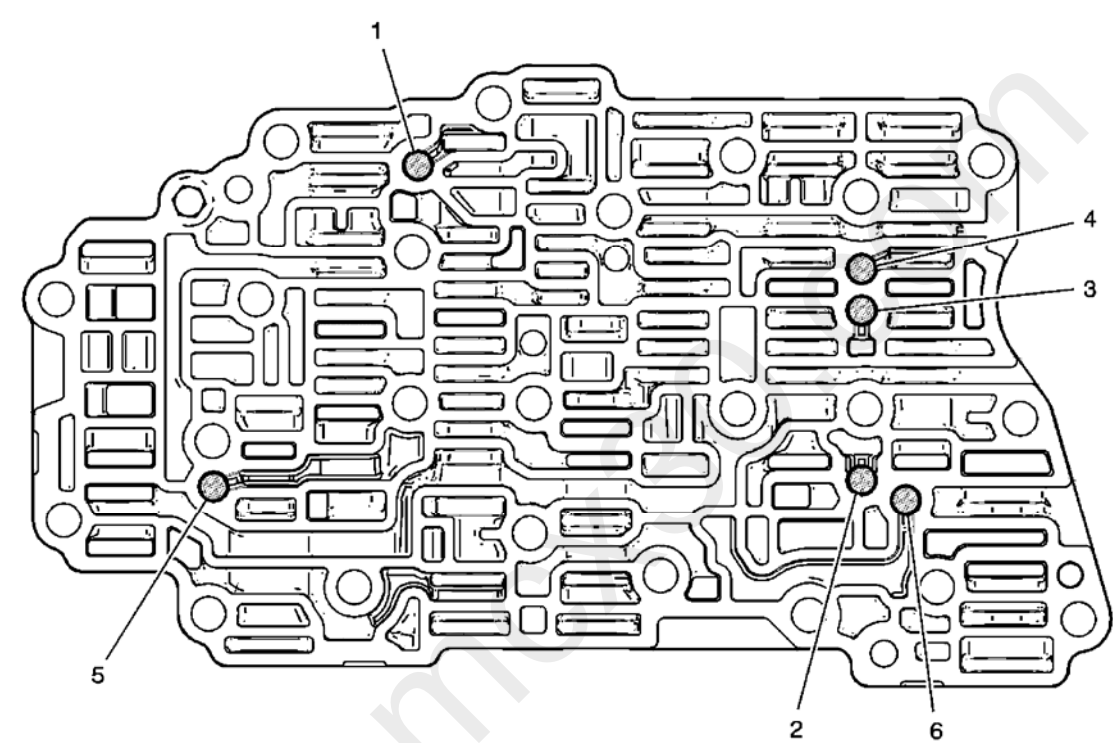


Fig. 19: Identifying Ball Check Valve Locations
Courtesy of GENERAL MOTORS CORP.

I.D.	Input Oil	Input Oil	Output Oil
1	PS4	456 CL FD	CSV2 Latch
2	35 Rev FD/Drive 1-6	Drive 1-6	35 Rev FD
3	35 Rev FD	-	35 Rev FD
4	Comp FD	35 Rev FD	35 Rev CL FD/Exh BF
5	Act FD LM	-	R1/456 CL FD
6	Act FD LM	-	35 Rev CL