

2010 Transmission

Automatic Transmission - 6T70/6T75 - Equinox & Terrain

COMPONENT LOCATOR

DISASSEMBLED VIEWS

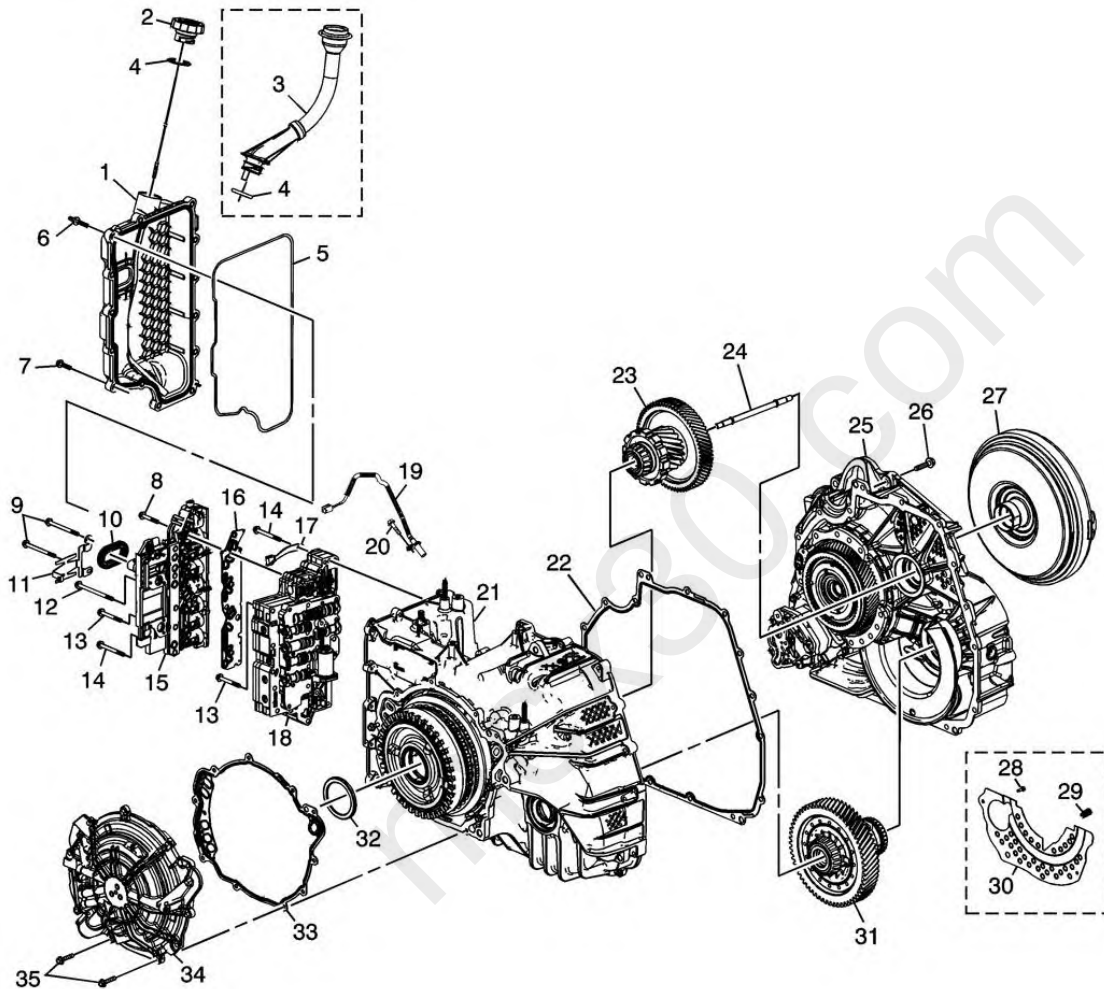


Fig. 1: Case & Associated Parts

Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	Control Valve Body Cover Assembly
2	Transmission Fluid Level Indicator Assembly
3	Fluid Level Indicator Tube - Model Dependent
4	Fluid Level Indicator Tube Seal - Model Dependent
5	Control Valve Body Cover Assembly Gasket
6	Control Valve Body Cover Stud

7	Control Valve Body Cover Bolt
8	Control Valve Body Bolt
9	Control Valve Body Bolt
10	Control Valve Body Cover Wiring Connector Hole Seal
11	Control Solenoid Valve Spring
12	Control Valve Body Bolt
13	Control Valve Body Bolt
14	Control Valve Body Bolt
15	Control Solenoid (w/Body and TCM) Valve Assembly
16	Control Solenoid (w/Body and TCM) Filter Plate Assembly
17	Manual Shaft Detent Assembly
18	Control Valve Body Assembly
19	A/Trans Output Speed Sensor Assembly
20	A/Trans Output Speed Sensor Bolt
21	A/Trans Case Assembly
22	Torque Converter Housing Outer Seal
23	Front Differential Drive Pinion (w/Transfer Gear) Gear Assembly
24	Front Differential Drive Pinion Gear Lube Tube
25	Torque Converter and Support and A/Trans Fluid Pump Housing Assembly
26	Torque Converter and Differential Housing Bolt
27	Torque Converter Assembly
28	Dust Cover Push Pin - Model Dependent
29	Dust Cover Bolt - Model Dependent
30	Dust Cover - Model Dependent
31	Front Differential Carrier Assembly
32	Input Shaft Thrust Bearing Assembly
33	A/Trans Case Cover Gasket
34	A/Trans Case Cover Assembly
35	A/Trans Case Cover Assembly Bolt

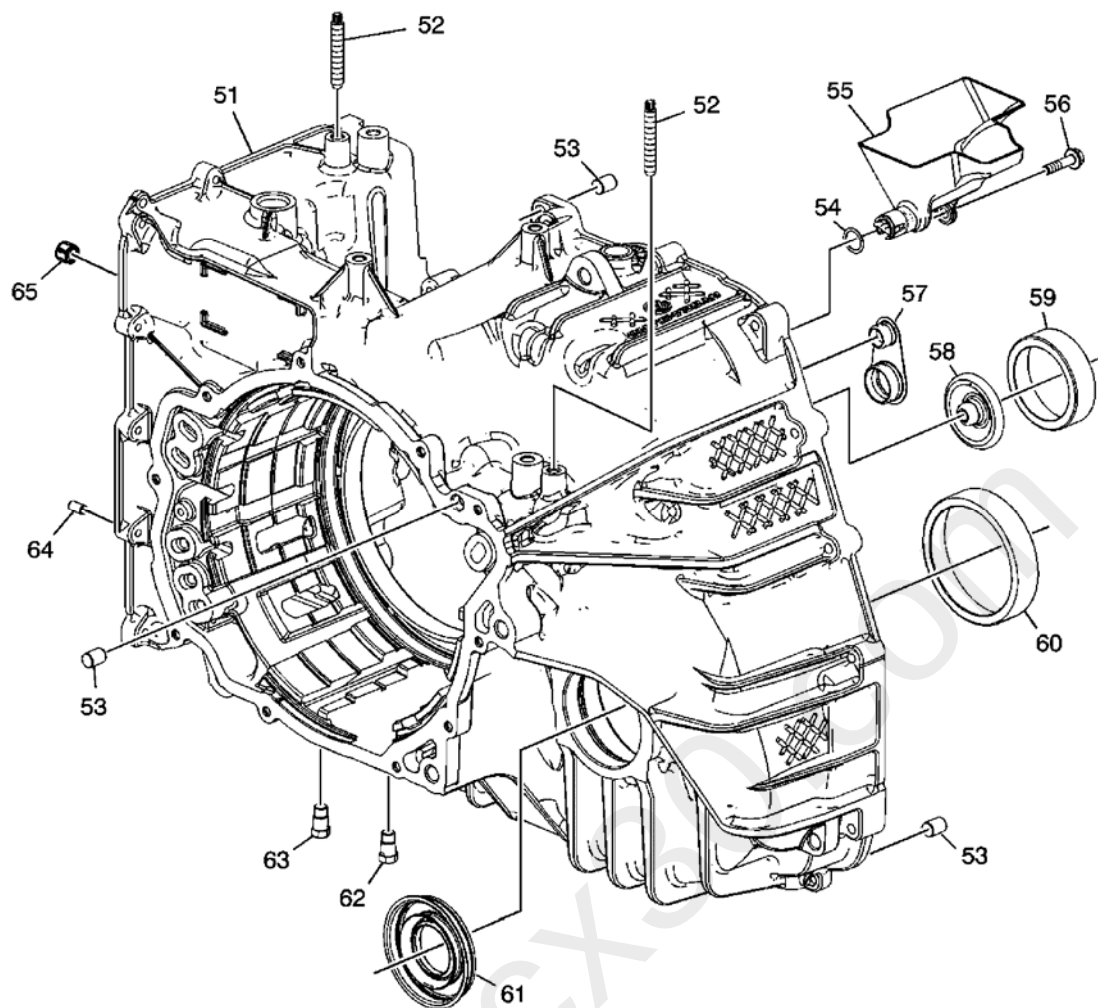


Fig. 2: Transmission Case Assembly
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
51	A/Trans Case Assembly
52	Transmission Fluid Cooler Pipe Stud
53	Transmission Case Cover Locator Pin
54	A/Trans Fluid Trough O-Ring Seal
55	A/Trans Fluid Trough Assembly
56	A/Trans Fluid Trough Bolt
57	A/Trans Pump Fluid Outlet Seal Assembly
58	Front Differential Drive Pinion Gear Lube Dam
59	Front Differential Drive Pinion Gear Bearing Cup
60	Front Differential Carrier Bearing Cup
61	Front Wheel Drive Shaft Oil Seal Assembly

62	A/Trans Fluid Press Test Hole Plug
63	A/Trans Fluid Level Hole Plug
64	Control Valve Body Locator Pin
65	1-2-3-4 Clutch Fluid Passage Seal

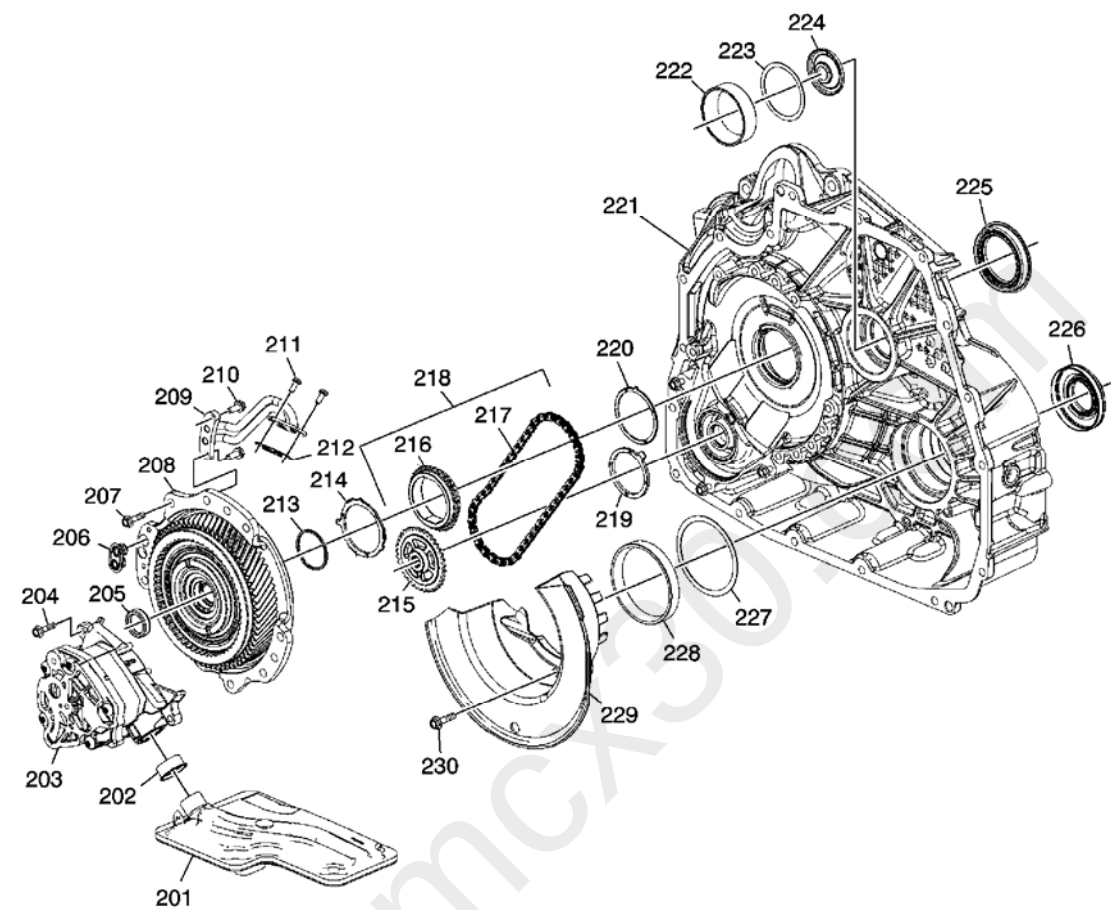


Fig. 3: Torque Converter, Support & Fluid Pump Housing Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
201	A/Trans Fluid Filter Assembly
202	Filter Neck Seal
203	A/Trans Fluid Pump Assembly
204	A/Trans Fluid Pump Bolt
205	Front Differential Transfer Drive Gear Support Seal Assembly
206	Front Differential Transfer Drive Gear Support Torque Converter Fluid Seal Assembly
207	Front Differential Transfer Drive Gear Support Bolt
208	Front Differential Transfer Drive Gear Support Assembly

209	Front Differential Transfer Drive Gear Fluid Passage Tube Assembly
210	Front Differential Transfer Drive Gear Fluid Passage Tube Bolt
211	Front Differential Transfer Drive Gear Fluid Passage Tube Bolt
212	Front Differential Transfer Drive Gear Support Fluid Passage Tube Gasket
213	Front Differential Transfer Drive Gear Support Seal
214	Drive Sprocket Thrust Washer
215	Oil Pump Drive Link Driven Sprocket
216	Oil Pump Drive Link Drive Sprocket
217	Drive Link
218	Drive Link Assembly
219	Drive Sprocket Thrust Washer
220	Drive Sprocket Thrust Washer
221	Torque Converter and Differential Housing Assembly
222	Front Differential Drive Pinion Gear Bearing Cup
223	Front Differential Drive Pinion Gear Bearing Thrust Washer
224	Front Differential Drive Pinion Gear Lube Dam
225	Torque Converter Fluid Seal Assembly
226	Front Wheel Drive Shaft Oil Seal Assembly
227	Front Differential Bearing Thrust Washer
228	Front Differential Carrier Bearing Cup
229	Front Differential Carrier Baffle
230	Front Differential Carrier Baffle Bolt

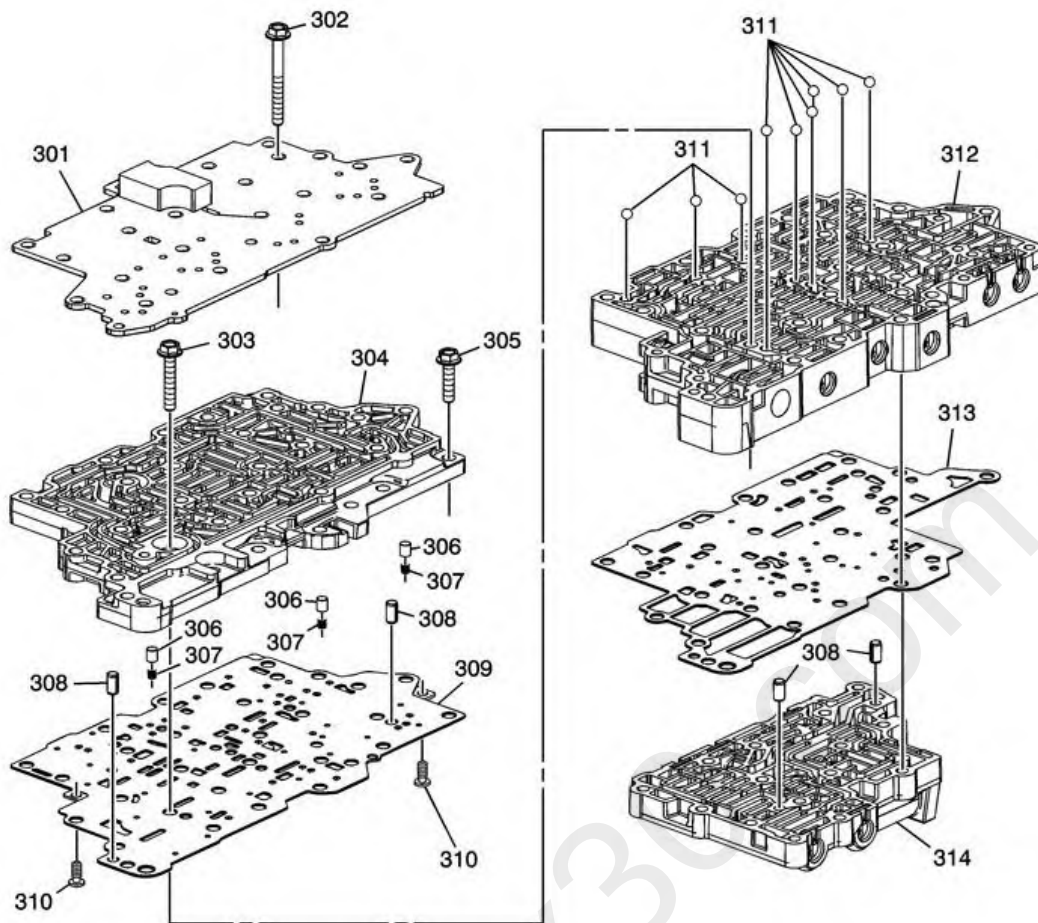


Fig. 4: Control Valve Body Assembly
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
301	Control Valve Channel Upper Plate Assembly
302	Control Valve Body Bolt
303	Control Valve Body Bolt
304	Control Valve Channel Plate
305	Control Valve Body Bolt
306	Actuator Feed Accumulator Piston
307	Actuator Feed Accumulator Spring
308	Control Valve Body Locator Pin
309	Control Valve Upper Body Spacer Plate Assembly
310	Control Valve Body Spacer Plate Retainer
311	Control Valve Body Ball Check Valve
312	Control Valve Upper Body Assembly
313	Control Valve Lower Body Spacer Plate Assembly

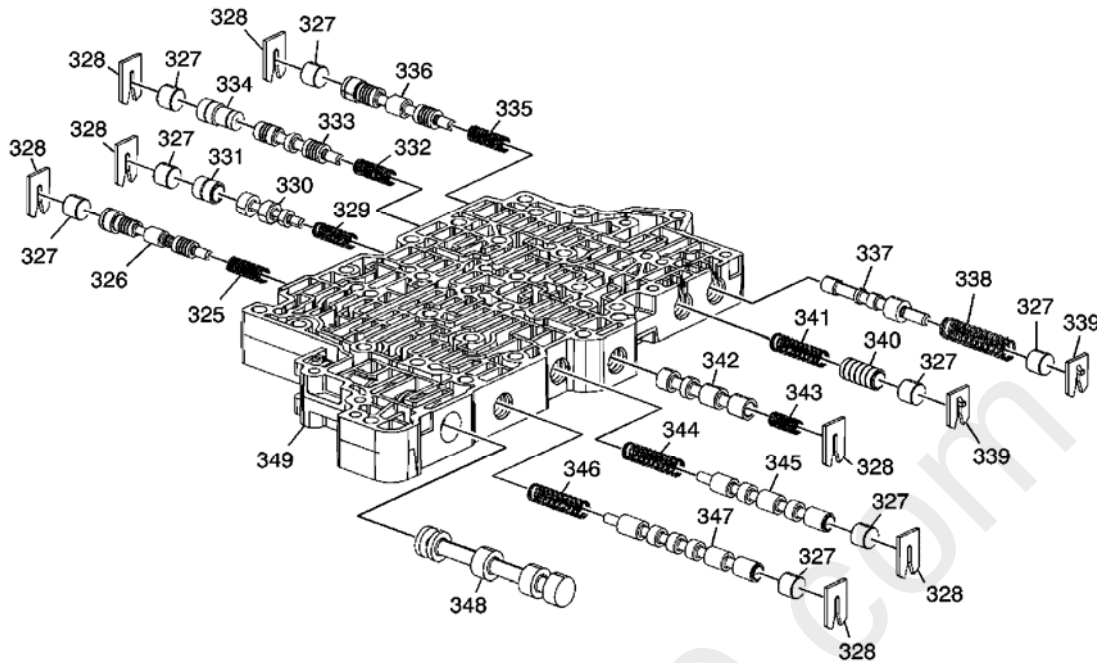


Fig. 5: Upper Valve Body Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
325	Low and Reverse and 4-5-6 Clutch Regulator Valve Spring
326	Low and Reverse and 4-5-6 Clutch Regulator Valve
327	Pressure Regulator Valve Bore Plug
328	Torque Converter Clutch Valve Spring Retainer
329	Torque Converter Clutch Regulator Apply Valve Spring
330	Torque Converter Clutch Regulator Apply Valve
331	Torque Converter Clutch Regulator Apply Shuttle Valve
332	2-6 Clutch Regulator Valve Spring
333	2-6 Clutch Regulator Valve
334	2-6 Clutch Regulator Valve Gain Valve
335	3-5-Reverse Clutch Regulator Valve Spring
336	3-5-Reverse Clutch Regulator Valve
337	Pressure Regulator Valve
338	Pressure Regulator Valve Spring
339	Pressure Regulator Valve Bore Plug Retainer
340	Isolator Valve
341	Isolator Valve Spring
342	Torque Converter Clutch Control Valve

343	Torque Converter Clutch Control Valve Spring
344	Clutch Select Solenoid Valve #3 Spring
345	Clutch Select Solenoid #3 Valve
346	Clutch Select Solenoid Valve #2 Spring
347	Clutch Select Solenoid #2 Valve
348	Manual Valve
349	Control Valve Upper Body

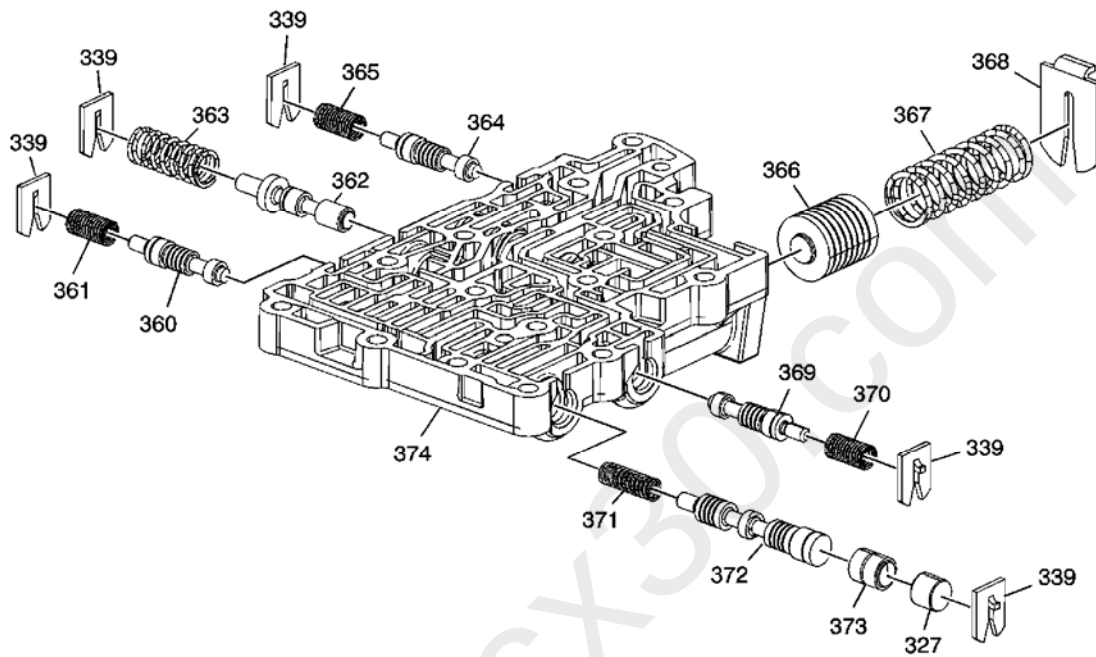


Fig. 6: Lower Valve Body Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
327	1-2-3-4 Clutch Regulator Valve Bore Plug
339	Actuator Feed Limit Valve Spring Retainer
360	4-5-6 Clutch Boost Valve
361	4-5-6 Clutch Boost Valve Spring
362	Actuator Feed Limit Valve
363	Actuator Feed Limit Valve Spring
364	3-5-Reverse Clutch Boost Valve
365	3-5-Reverse Clutch Boost Valve Spring
366	4-5-6 Clutch Accumulator Piston
367	4-5-6 Clutch Accumulator Piston Spring
368	4-5-6 Clutch Accumulator Piston Retainer
369	1-2-3-4 Clutch Boost Valve

370	1-2-3-4 Clutch Boost Valve Spring
371	1-2-3-4 Clutch Regulator Valve Spring
372	1-2-3-4 Clutch Regulator Valve
373	Default Override 1-2-3-4 Clutch Valve
374	Control Valve Lower Body

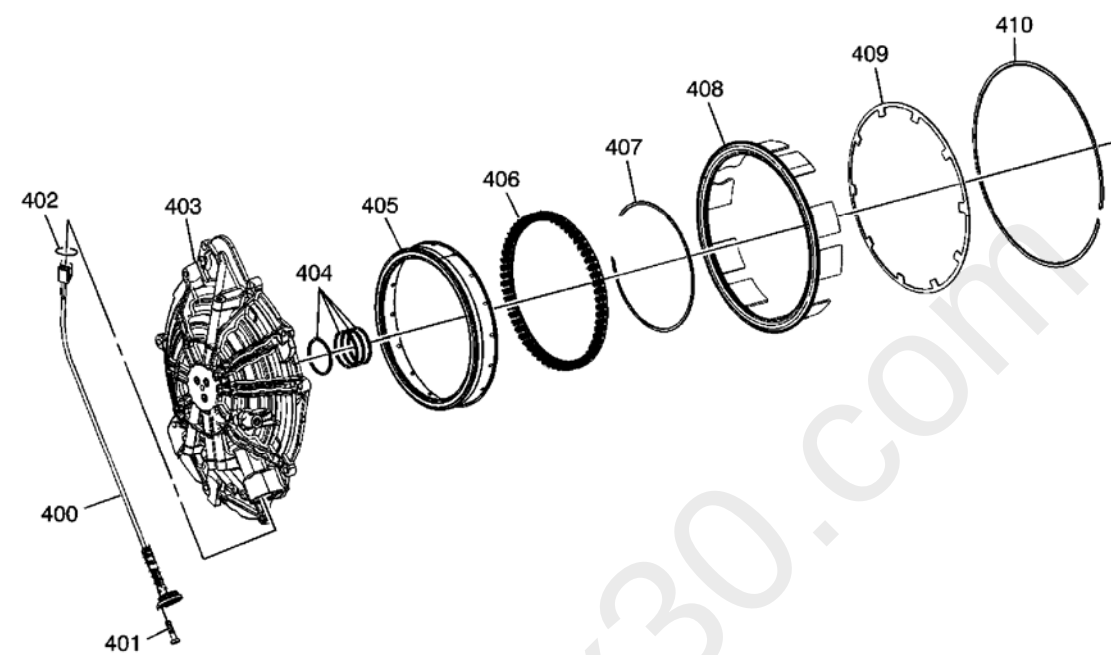


Fig. 7: A/Trans Case Cover, 2-6 & Low Reverse Pistons
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
400	A/Trans Input Speed Sensor Assembly
401	A/Trans Input Speed Sensor Bolt
402	ISS O-Ring Seal
403	A/Trans Case Cover Assembly
404	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
405	2-6 Clutch Piston
406	2-6 Clutch Spring Assembly
407	2-6 Clutch Spring Retainer Ring
408	Low and Reverse Clutch Piston Assembly
409	Low and Reverse Clutch Spring
410	Low and Reverse Clutch Spring Retainer Ring

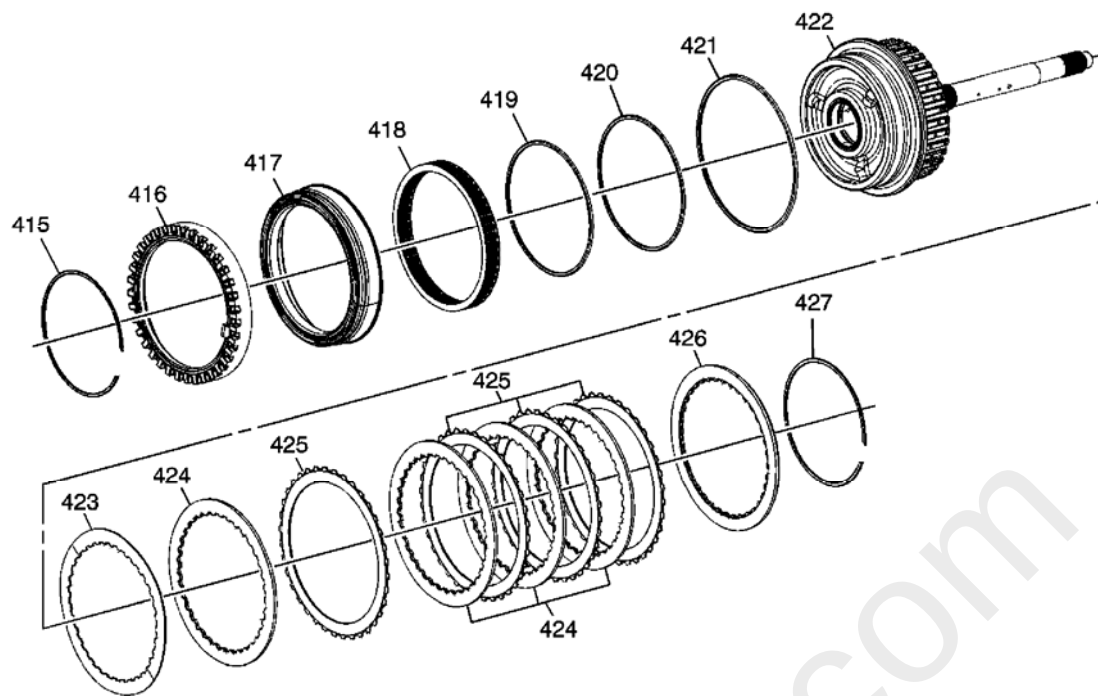


Fig. 8: 3-5 Reverse Clutch Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
415	A/Trans Input Shaft Speed Sensor Reluctor Ring Retainer Ring
416	A/Trans Input Shaft Speed Sensor Reluctor Wheel
417	3-5-Reverse Clutch Piston
418	3-5-Reverse Clutch Spring
419	3-5-Reverse Clutch Piston Inner Seal
420	3-5-Reverse Clutch Piston Inner Seal
421	3-5-Reverse Clutch Piston Dam Seal
422	3-5-Reverse and 4-5-6 Clutch Housing Assembly
423	3-5-Reverse Clutch (Waved) Plate
424	3-5-Reverse Clutch Plate
425	3-5-Reverse Clutch (w/Friction Material) Plate Assembly
426	3-5-Reverse Clutch Backing Plate
427	3-5-Reverse Clutch Backing Plate Retainer Ring

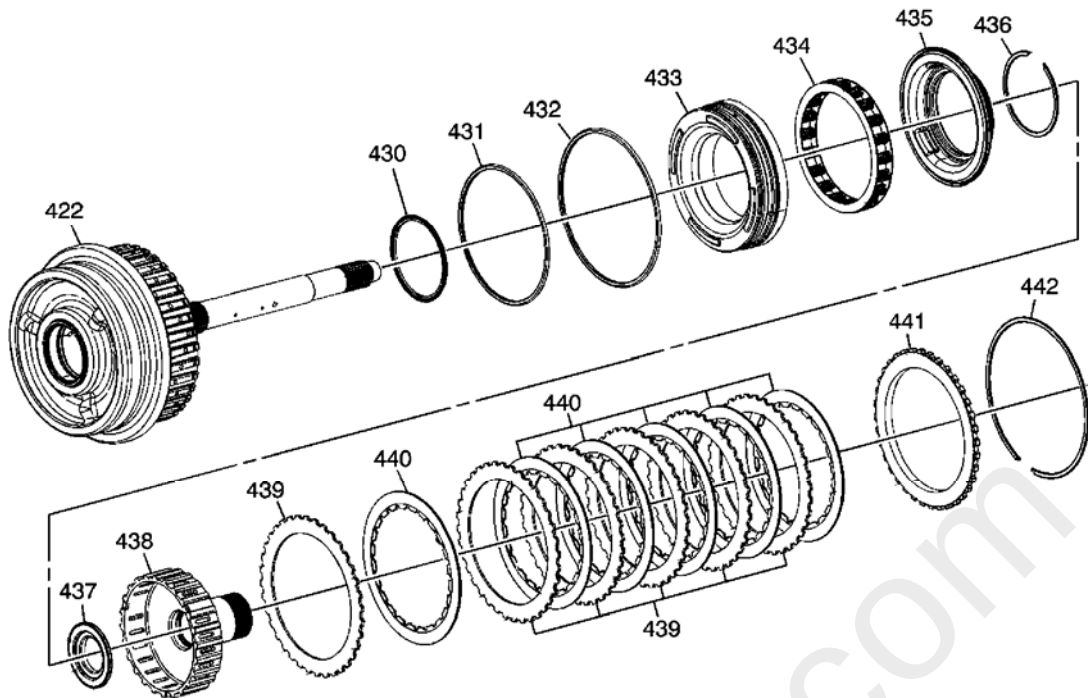


Fig. 9: 4-5-6 Clutch Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
422	3-5-Reverse and 4-5-6 Clutch Housing Assembly
430	4-5-6 Clutch Piston Inner Seal
431	4-5-6 Clutch Piston Outer Seal
432	4-5-6 Clutch Piston Outer Seal
433	4-5-6 Clutch Piston
434	4-5-6 Clutch Spring
435	4-5-6 Clutch Piston Fluid Dam
436	4-5-6 Clutch Dam Retainer Ring
437	4-5-6 Clutch Hub Thrust Bearing Assembly
438	Reaction Carrier Hub Assembly
439	4-5-6 Clutch Plate
440	4-5-6 Clutch (w/Friction Material) Plate Assembly
441	4-5-6 Clutch Backing Plate
442	4-5-6 Clutch Backing Plate Retainer Ring

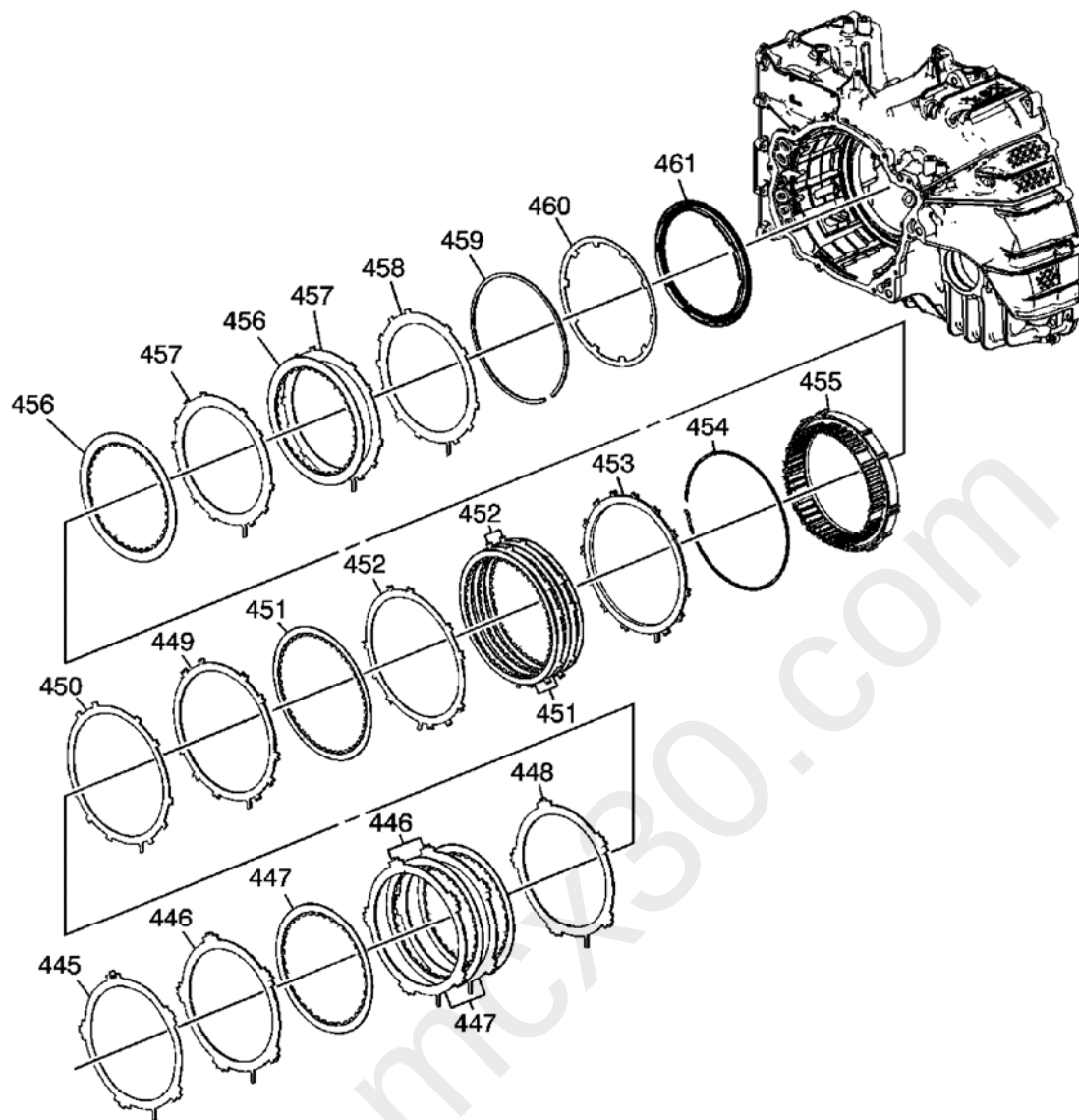


Fig. 10: 2-6, Low & Reverse & 1-2-3-4 Clutch Plate Assemblies
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
445	2-6 Clutch Cushion Spring
446	2-6 Clutch Plate
447	2-6 Clutch (w/Friction Material) Plate Assembly
448	2-6 Clutch Backing Plate
449	Low and Reverse Clutch Apply Plate
450	Low and Reverse Clutch Cushion (Waved) Spring
451	Low and Reverse Clutch (w/Friction Material) Plate Assembly
452	Low and Reverse Clutch Plate

453	Low and Reverse Clutch Backing Plate
454	Low and Reverse Clutch Retainer Ring
455	Low and Reverse Clutch Assembly (OWC)
456	1-2-3-4 Clutch (w/Friction Material) Plate Assembly
457	1-2-3-4 Clutch Plate
458	1-2-3-4 Clutch (Waved) Plate
459	1-2-3-4 Clutch Spring Retainer Ring
460	1-2-3-4 Clutch Spring
461	1-2-3-4 Clutch Piston
449	Low and Reverse Clutch Apply Plate

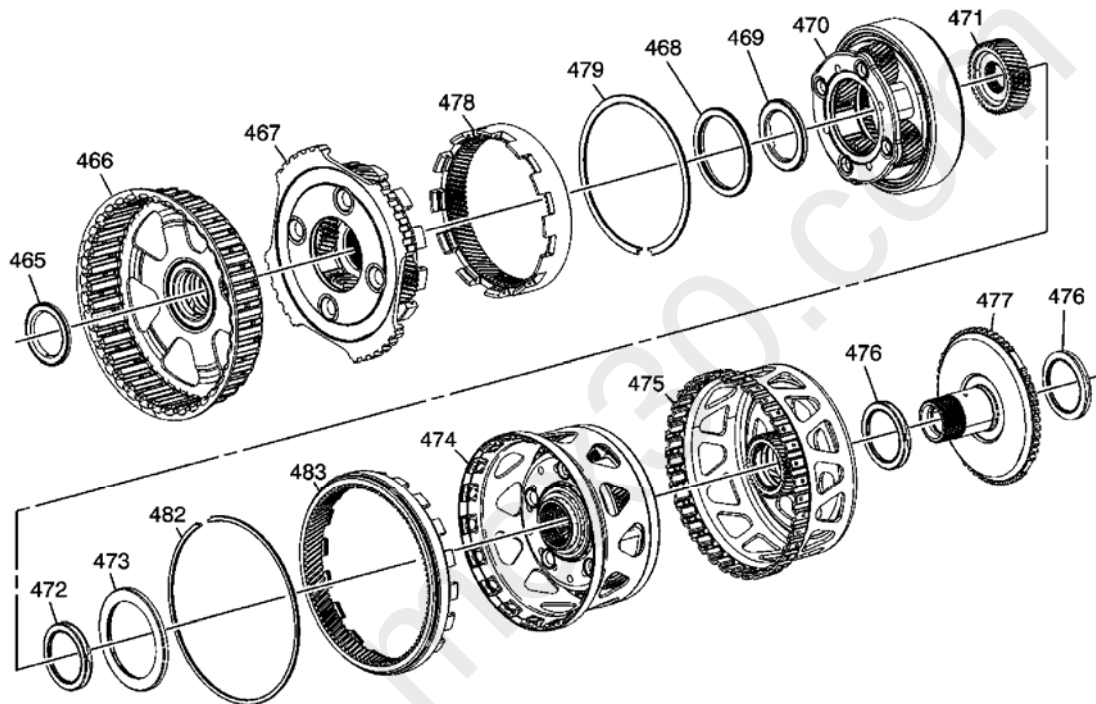


Fig. 11: Input, Output & Reaction Gearsets
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
465	2-6 Clutch Hub Thrust Bearing
466	Reaction Sun Gear Assembly
467	Reaction Carrier Assembly
468	Input Carrier Thrust Bearing Assembly
469	Input Sun Gear Thrust Bearing Assembly
470	Input Carrier Assembly
471	Input Sun Gear

472	Output Carrier Thrust Bearing Assembly
473	Output Carrier Thrust Bearing Assembly
474	Output Carrier Assembly
475	Output Sun Gear Assembly
476	Front Differential Transfer Drive Gear Input Hub Bearing Assembly
477	Output Carrier Transfer Drive Gear Hub Assembly
478	Input Internal Gear
479	Input Internal Gear Retaining Ring
482	Reaction Internal Gear Retaining Ring
483	Reaction Carrier Internal Gear

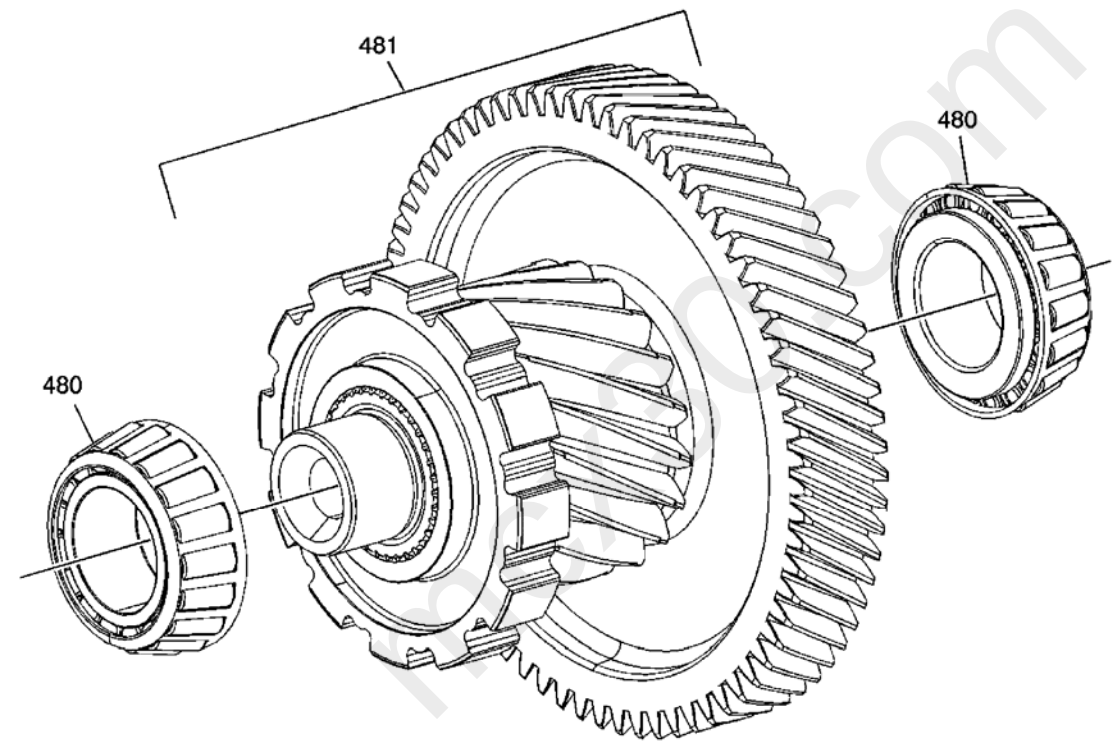


Fig. 12: Front Differential Transfer Drive Gear Assembly
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
480	Front Differential Drive Pinion Gear Bearing Assembly
481	Front Differential Drive Pinion (w/Transfer Gear) Gear Assembly

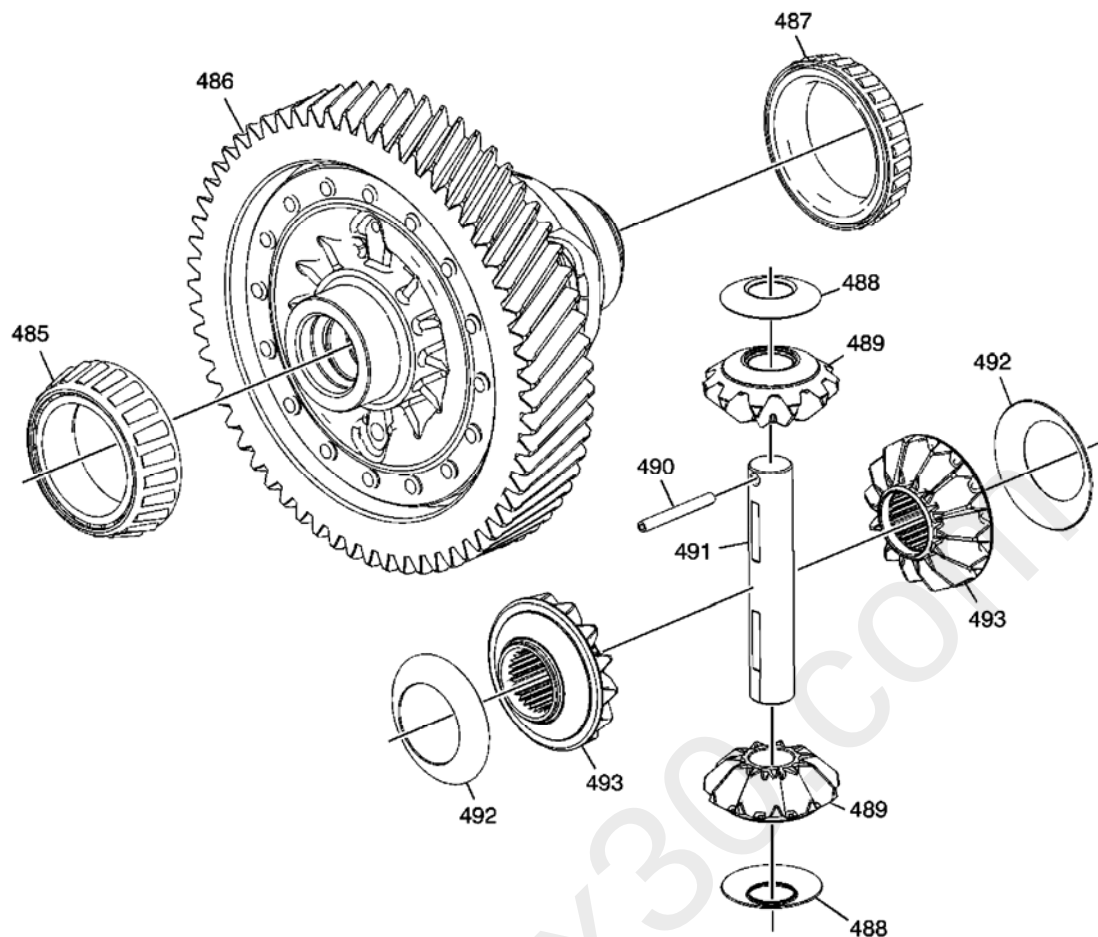


Fig. 13: Front Differential Carrier Assembly
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
485	Front Differential Carrier Bearing Assembly
486	Front Differential Carrier Assembly
487	Front Differential Carrier Bearing Assembly
488	Front Differential Carrier Thrust Washer
489	Front Differential Pinion Gear
490	Front Differential Pinion Gear Shaft Retainer
491	Front Differential Pinion Gear Shaft
492	Front Differential Side Gear Thrust Washer
493	Front Differential Side Gear

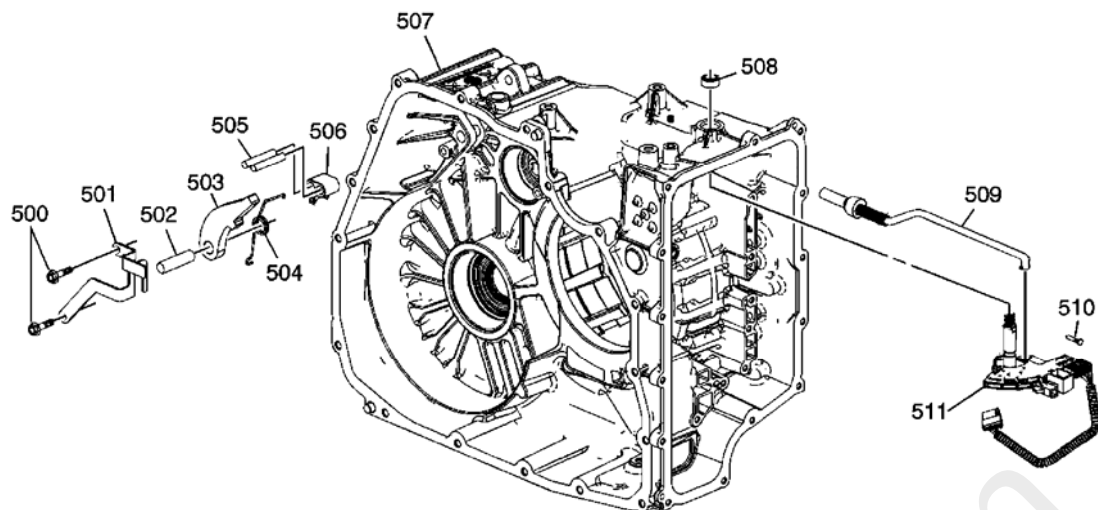


Fig. 14: Park System Components
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
500	Park Pawl Actuator Bracket Bolt
501	Park Pawl Actuator Bracket
502	Park Pawl Shaft
503	Park Pawl
504	Park Pawl Spring
505	Park Pawl Actuator Guide Pin
506	Park Pawl Actuator Guide
507	A/Trans Case Assembly
508	Manual Shift Shaft Seal
509	Park Pawl Actuator Assembly
510	Manual Shift Shaft Pin
511	Manual Shift Detent (w/Shaft Position Switch) Lever Assembly

COMPONENT LOCATION

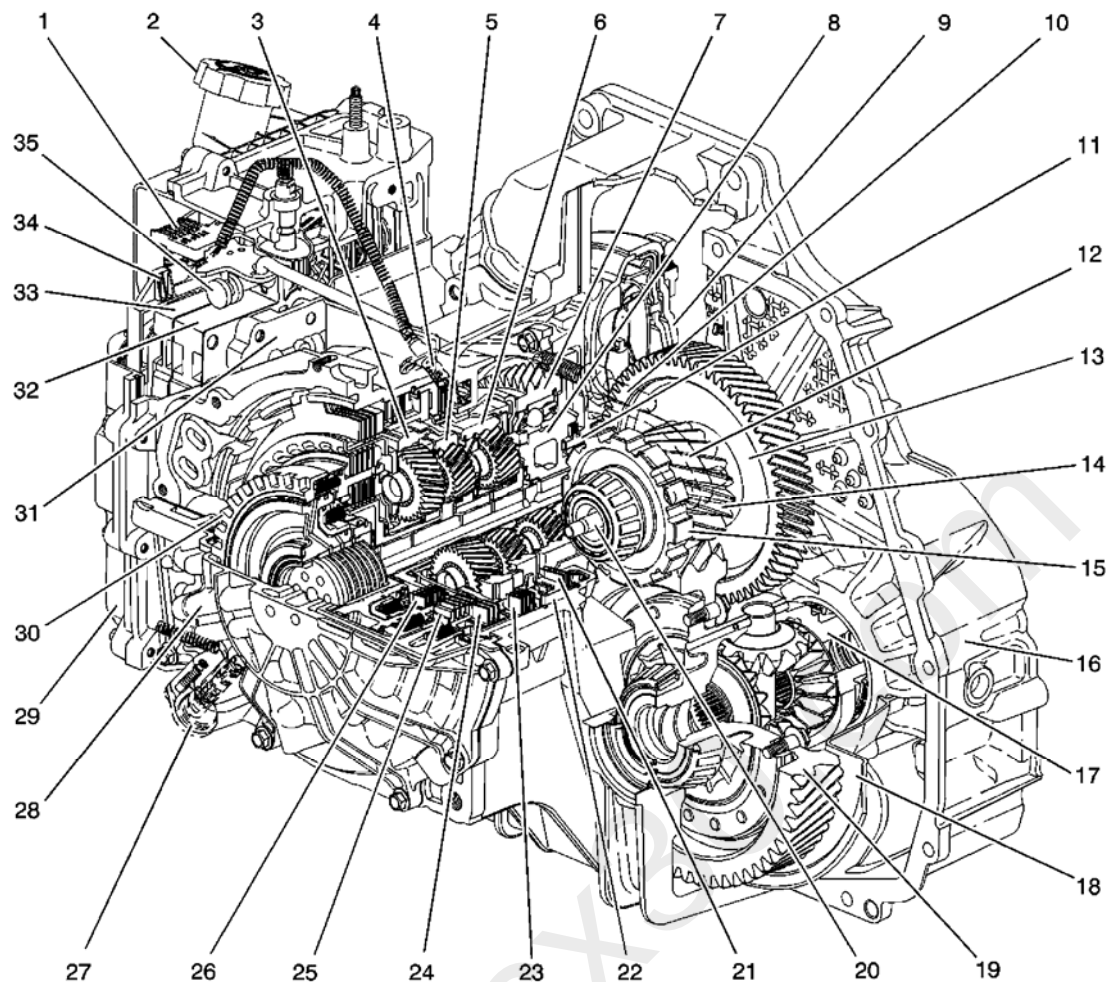


Fig. 15: Component Locations
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
1	Manual Shift Detent Lever Assembly (w/Shaft Position Switch)
2	Trans Fluid Level Indicator
3	Reaction Carrier Assembly
4	Output Speed Sensor
5	Input Carrier Assembly
6	Output Carrier Assembly
7	Front Differential Transfer Drive Gear
8	Front Differential Transfer Drive Gear Support Assembly
9	Torque Converter Assembly
10	Park Pawl Actuator Assembly
11	Fluid Pump Drive Link Assembly
12	Park Pawl

13	Front Differential Transfer Driven Gear
14	Front Differential Drive Pinion Gear
15	Park Gear
16	Torque Converter and Support and Fluid Pump Housing Assembly
17	Front Differential Carrier Assembly
18	Front Differential Carrier Baffle
19	Front Differential Ring Gear
20	Front Differential Drive Pinion Gear Lube Tube
21	1-2-3-4 Clutch Assembly
22	Low and Reverse Clutch Assembly (OWC)
23	Low and Reverse Clutch
24	2-6 Clutch Assembly
25	3-5-Reverse Clutch Assembly
26	4-5-6 Clutch Assembly
27	Input Speed Sensor
28	Case Cover Assembly
29	Control Valve Body Cover
30	Input Shaft Speed Sensor Reluctor Wheel
31	Control Valve Lower Body Assembly
32	Control Valve Upper Body Assembly
33	Control Valve Channel Plate Assembly
34	Control Solenoid Valve Assembly (w/Body and TCM)
35	Manual Valve

BUSHING, BEARING, AND WASHER LOCATIONS

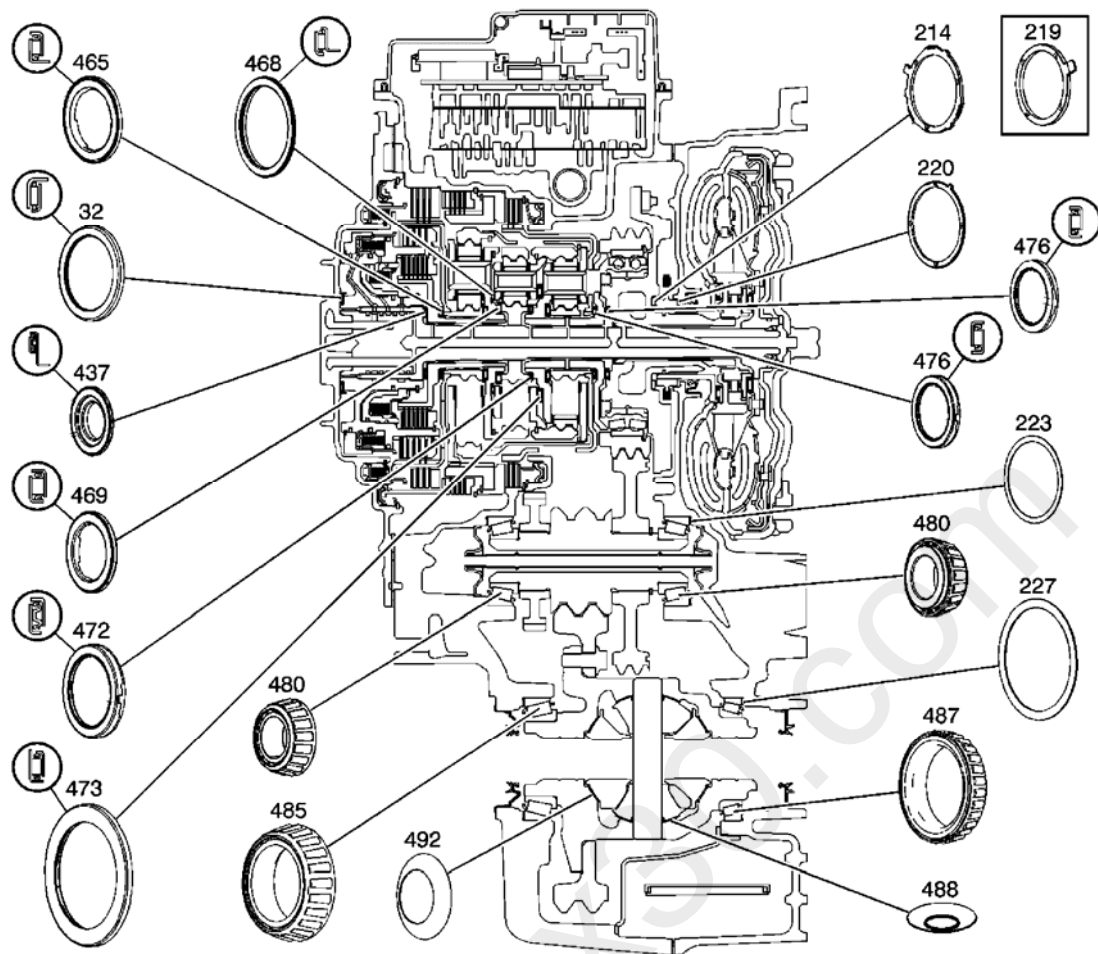


Fig. 16: Bushing & Bearing Locations
 Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
32	Input Shaft Thrust Bearing Assembly
214	Drive Sprocket Thrust Washer
219	Drive Sprocket Thrust Washer
220	Drive Sprocket Thrust Washer
223	Front Differential Drive Pinion Gear Bearing Thrust Washer
227	Front Differential Bearing Thrust Washer
437	4-5-6 Clutch Hub Thrust Bearing Assembly
465	2-6 Clutch Hub Thrust Bearing
468	Input Carrier Thrust Bearing Assembly
469	Input Sun Gear Thrust Bearing Assembly
472	Output Carrier Thrust Bearing Assembly
473	Output Carrier Thrust Bearing Assembly
476	Front Differential Transfer Drive Gear Input Hub Bearing Assembly

480	Front Differential Drive Pinion Gear Bearing Assembly
485	Front Differential Carrier Bearing Assembly
487	Front Differential Carrier Bearing Assembly
488	Front Differential Carrier Thrust Washer
492	Front Differential Side Gear Thrust Washer

SEAL LOCATIONS

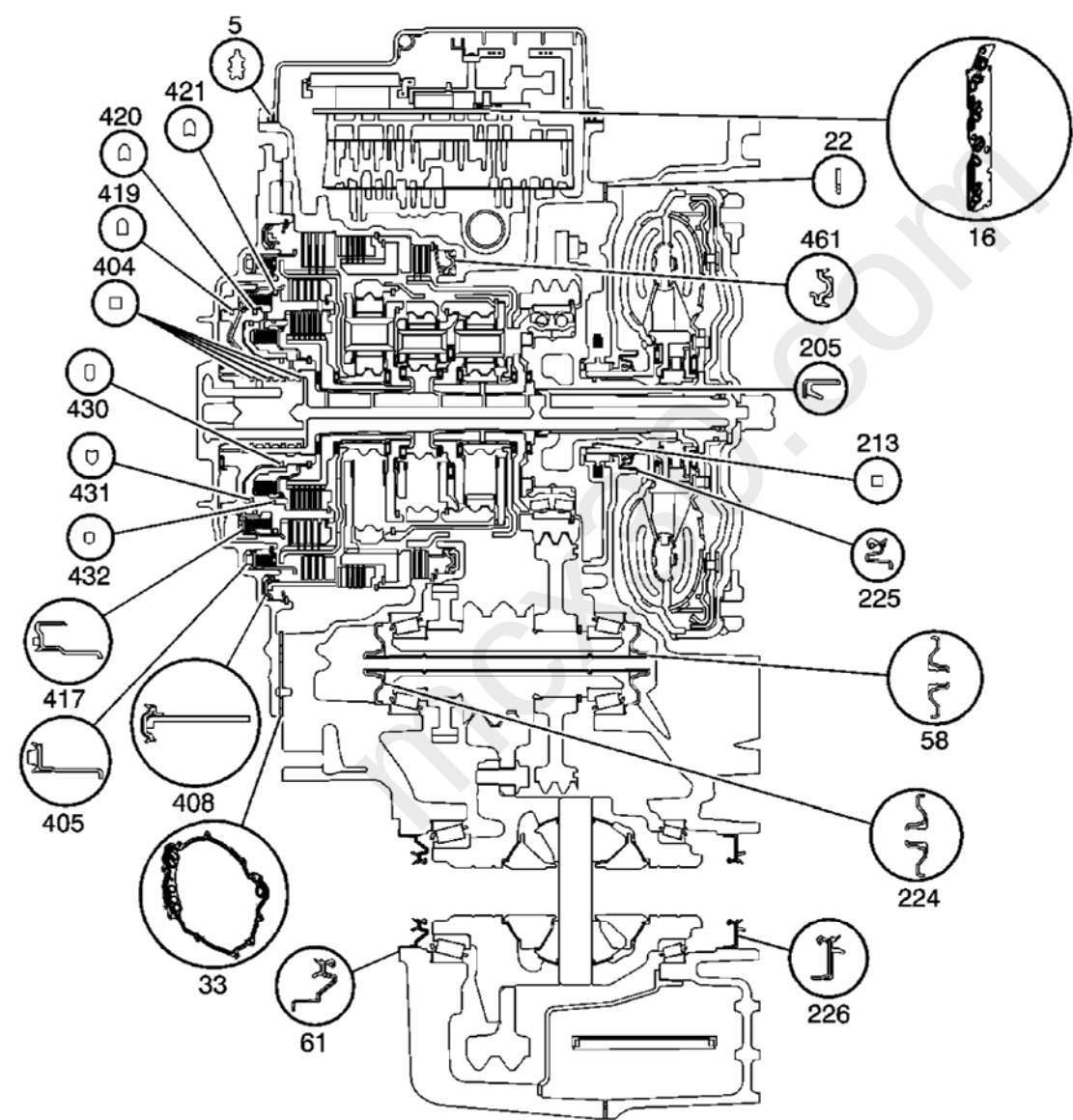


Fig. 17: Seal Locations #1
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
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5	Control Valve Body Cover Assembly Gasket
16	Control Solenoid (w/Body and TCM) Filter Plate Assembly
22	Torque Converter Housing Outer Seal
33	A/Trans Case Cover Gasket
58	Front Differential Drive Pinion Gear Lube Dam
61	Front Wheel Drive Shaft Oil Seal Assembly
205	Front Differential Transfer Drive Gear Support Seal Assembly
213	Front Differential Transfer Drive Gear Support Seal
224	Front Differential Drive Pinion Gear Lube Dam
225	Torque Converter Fluid Seal Assembly
226	Front Wheel Drive Shaft Oil Seal Assembly
404	3-5-Reverse and 4-5-6 Clutch Fluid Seal Ring
405	2-6 Clutch Piston
408	Low and Reverse Clutch Piston Assembly
417	3-5-Reverse Clutch Piston
419	3-5-Reverse Clutch Piston Inner Seal
420	3-5-Reverse Clutch Piston Inner Seal
421	3-5-Reverse Clutch Piston Dam Seal
430	4-5-6 Clutch Piston Inner Seal
431	4-5-6 Clutch Piston Outer Seal
432	4-5-6 Clutch Piston Outer Seal
461	1-2-3-4 Clutch Piston

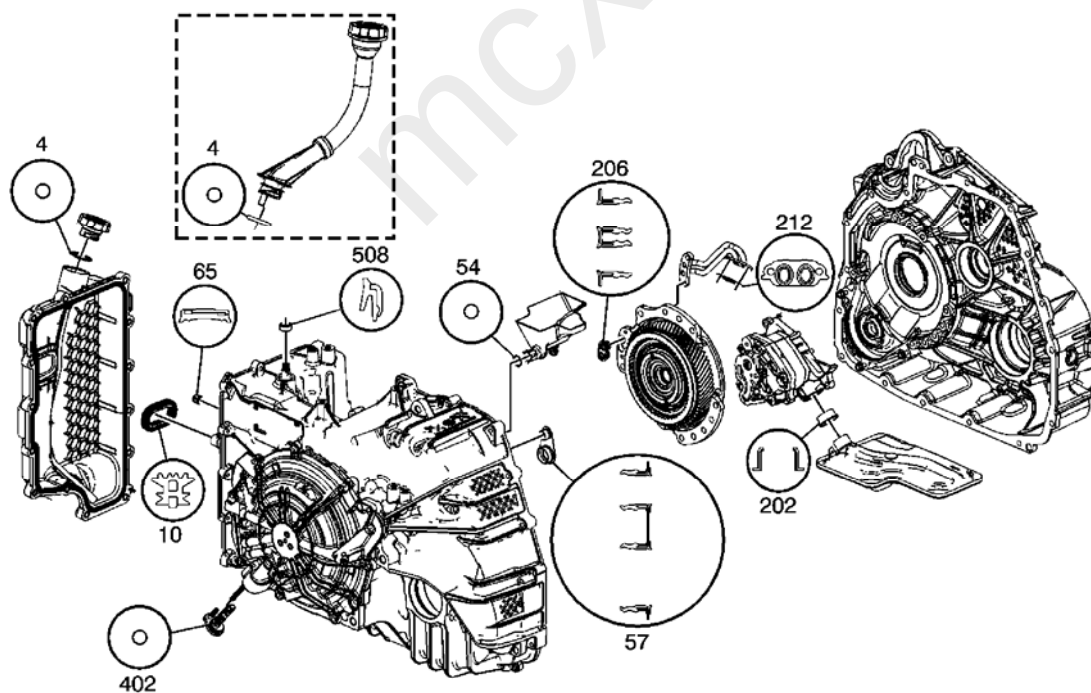


Fig. 18: Seal Locations #2
Courtesy of GENERAL MOTORS CORP.

Callout	Component Name
4	Fluid Level Indicator Tube Seal - Model Dependent
10	Control Valve Body Cover Wiring Connector Hole Seal
54	A/Trans Fluid Trough O-Ring Seal
57	A/Trans Pump Fluid Outlet Seal Assembly
65	1-2-3-4 Clutch Fluid Passage Seal
202	Filter Neck Seal
206	Front Differential Transfer Drive Gear Support Torque Converter Fluid Seal Assembly
212	Front Differential Transfer Drive Gear Support Fluid Passage Tube Gasket
402	ISS O-Ring Seal
508	Manual Shift Shaft Seal

BALL CHECK VALVE LOCATIONS

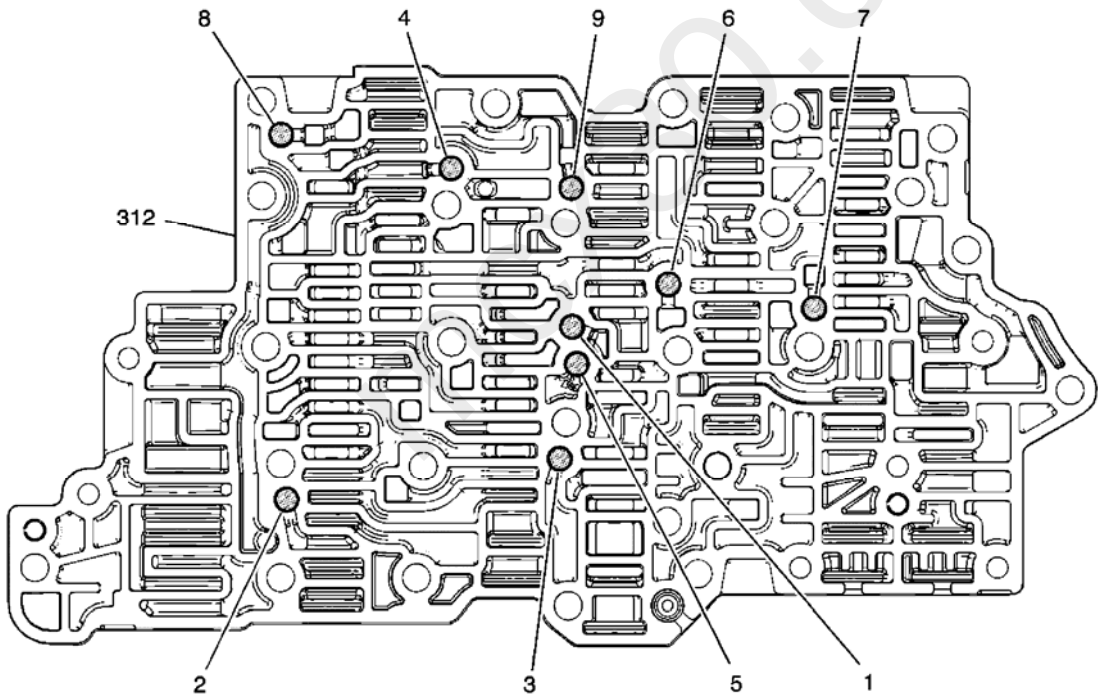


Fig. 19: Identifying Ball Check Valve Locations
Courtesy of GENERAL MOTORS CORP.

I.D.	Input Oil	Input Oil	Output Oil
1	Drive 1-6	DRV B	26/1234 CL Feed
2	Solenoid 1	Reverse	CSV2 Enable

3	Solenoid 2	456	CSV3 Enable
4	PS4	456	CSV2 Latch
5	Drive 1-6	35 Rev FD	35 Rev Supply
6	2-6/1234	-	1234 Clutch Feed
7	35R Supply	-	35R Clutch Feed
8	Low/Rev Supply	-	Low/Rev Clutch Feed
9	456 Clutch Supply	-	456 Clutch Feed

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