COMPONENT LOCATOR

DISASSEMBLED VIEWS

Case and Associated Parts

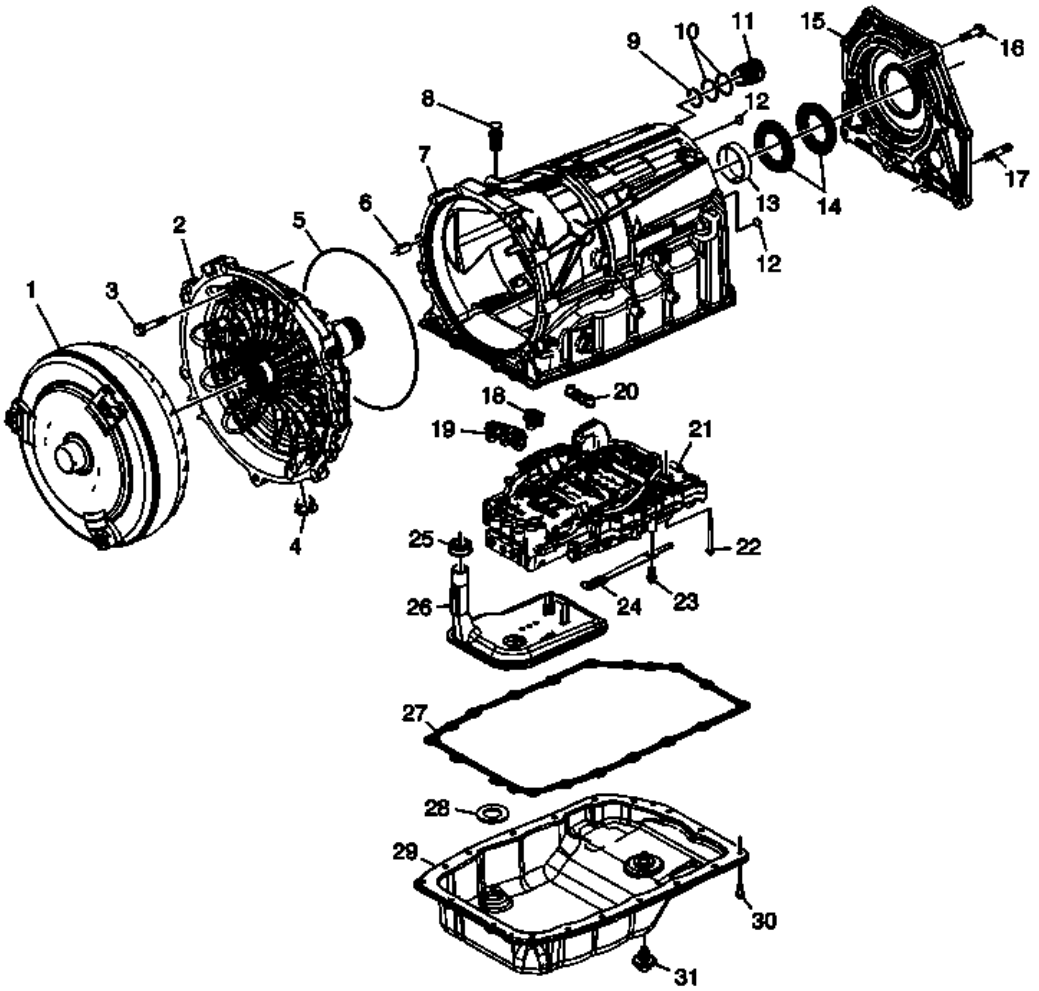

Fig. 1: View Of Case & Associated Parts
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Torque Converter Assembly
2	Torque Converter (with Fluid Pump) Housing Assembly
3	Bolt/Screw, M10 x 50 mm
4	Torque Converter Housing Access Hole Cover

cardiagn.com

5	A/Trans Fluid Pump Seal
6	Torque Converter Housing Locator Pin
7	A/Trans Case Assembly
8	Transmission Fluid Fill Tube Plug Assembly
9	A/Trans Connector Seal
10	A/Trans Connector (O-ring) Seal
11	A/Trans Electrical Connector Passage Sleeve
12	A/Trans Case Plug
13	Output Shaft Bushing
14	Output Shaft Seal Assembly
15	A/Trans Case Extension
16	Bolt/Screw, M10 x 40 mm
17	A/Trans Case Extension Stud
18	A/Trans Fluid Pump Seal Assembly
19	A/Trans Fluid Pump Seal Assembly
20	Center Support Fluid Passage Seal Assembly
21	Control (with Body and Valve) Valve Assembly
22	Bolt/Screw, M5 x 73 mm
23	Bolt/Screw, M6 x 14.5 mm
24	Manual Shaft Detent Assembly
25	A/Trans Fluid Filter Seal Assembly
26	A/Trans Fluid Filter Assembly
27	A/Trans Fluid Pan Gasket
28	A/Trans Fluid Pan Magnet
29	A/Trans Fluid Pan Assembly
30	Bolt/Screw, M6 x 20 mm
31	Trans Oil Level Check Plug

Clutch Assemblies and Associated Parts

cardiagn.com

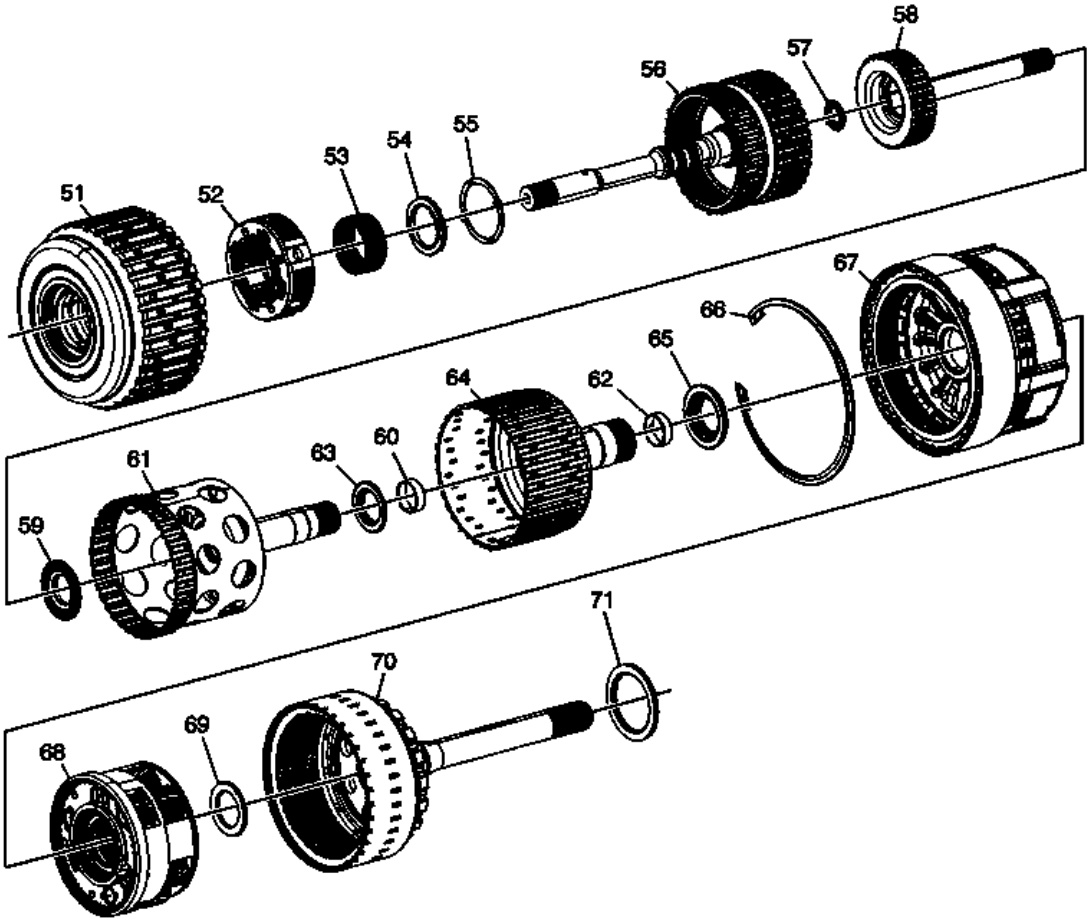

Fig. 2: View Of Clutch Assemblies & Associated Parts
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
51	1-2-3-4 and 3-5 Reverse Clutch Assembly
52	Input Carrier Assembly
53	Input Sun Gear
54	Input Sun Gear Thrust Bearing
55	Input Sun Gear Thrust Washer
56	4-5-6 (w/ Turbine Shaft) Clutch Assembly
57	Turbine Shaft Thrust Bearing Assembly
58	4-5-6 Clutch (w/ Output Carrier Shaft and Dampener) Hub Assembly
59	4-5-6 Clutch Hub Thrust Bearing Assembly
60	Output Carrier Inner Sun Gear Shaft (Front) Bushing
61	1-2-3-4 Clutch (w/ Output Carrier Inner Sun Gear Shaft) Hub Assembly
62	Output Carrier Inner Sun Gear Shaft Bushing
63	1-2-3-4 Clutch Hub Thrust Bearing Assembly

cardiagn.com

64	2-6 and 3-5 Reverse Clutch (w/ Output Carrier Outer Sun Gear Shaft) Hub Assembly
65	2-6 and 3-5 Reverse Clutch Hub Thrust Bearing Assembly
66	Center Support Retaining Ring
67	Center (w/ 2-6 Low and Reverse Clutch) Support Assembly
68	Output Carrier Assembly
69	Output Carrier Thrust Bearing Assembly
70	Output Shaft Assembly
71	Output Shaft Thrust Bearing Assembly

Torque Converter (w/Fluid Pump) Housing Assembly

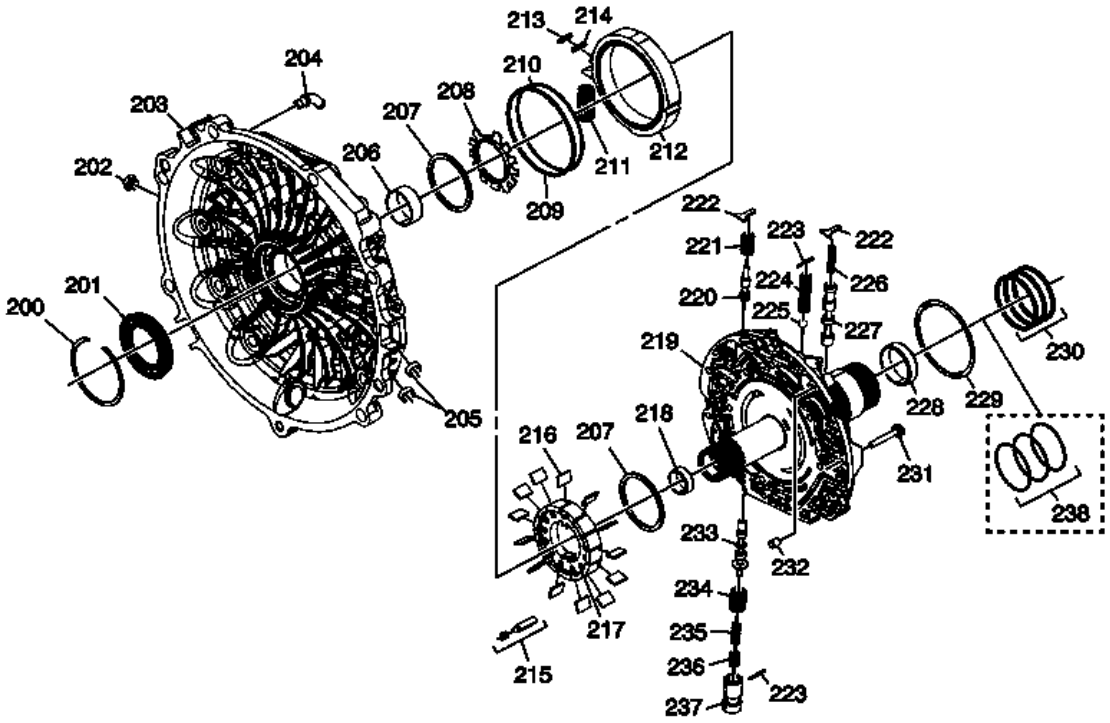

Fig. 3: View Of Torque Converter (w/Fluid Pump) Housing Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
200	Torque Converter Fluid Seal Retaining Ring
201	Torque Converter Fluid Seal Assembly
202	Line Pressure Test Hole Plug
203	Torque Converter Housing
204	A/Trans Vent Pipe (Model Dependent)
205	Trans Fluid Cooler Pipe Fitting Seal
206	Torque Converter Bushing
207	A/Trans Fluid Pump Vane Ring

cardiagn.com

208	A/Trans Fluid Pump Rotor Guide
209	A/Trans Fluid Pump Slide Fluid Seal Ring
210	A/Trans Fluid Pump Slide (O-ring) Seal
211	A/Trans Fluid Pump Slide Outer Spring
212	A/Trans Fluid Pump Slide
213	A/Trans Fluid Pump Slide Seal
214	A/Trans Fluid Pump Slide Seal Support
215	A/Trans Fluid Pump Slide Pivot Pin
216	A/Trans Fluid Pump Vane
217	A/Trans Fluid Pump Rotor
218	Turbine Shaft Front Bushing
219	A/Trans Fluid Pump Cover Assembly
220	Converter Feed Limit Valve
221	Converter Feed Limit Valve Spring
222	Valve Spring Retainer
223	Pressure Relief Ball Valve Spring Pin
224	Pressure Relief Ball Valve Spring
225	Pressure Relief Ball Valve
226	TCC Control Valve Spring
227	TCC Control Valve
228	Turbine Shaft Rear Bushing
229	1-2-3-4 and 3-5 Reverse Clutch Housing Thrust Washer
230	1-2-3-4 and 3-5 Reverse Clutch Fluid Seal Ring
231	Bolt/Screw, M6 x 40 mm
232	A/Trans Fluid Pump Locator Pin
233	Pressure Regulator Valve
234	Pressure Regulator Valve Outer Spring
235	Pressure Regulator Valve Inner Spring
236	Isolator Valve
237	Isolator Valve Sleeve
238	1-2-3-4 and 3-5 Reverse Clutch Fluid Seal Ring - Inner O-Ring (Qty: 3) - Model Dependent

Control (with Body and Valve) Valve Assembly

cardiagn.com

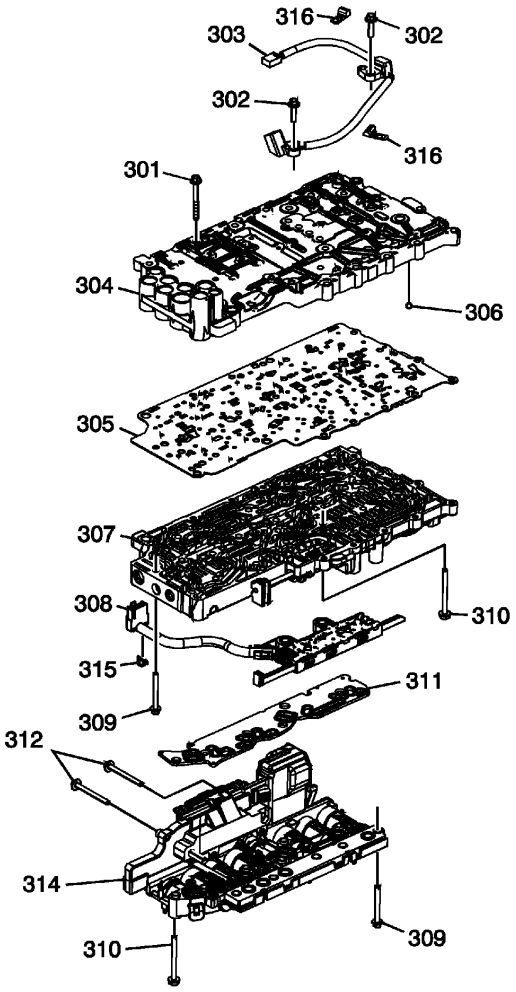

Fig. 4: Control (with Body and Valve) Valve Assembly Component Views
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
301	Bolt, M5 x 36 mm
302	Bolt, M6 x 20 mm
303	A/Trans Input and Output Speed Sensor Assembly - Model Dependent
304	Control Valve Upper Body Assembly
305	Control Valve Body Spacer (w/ Gasket) Plate Assembly
306	Control Valve Body Ball Check Valve
307	Control Valve Lower Body Assembly
308	A/Trans Manual Shift Shaft Position Switch Assembly
309	Bolt, M5 x 45 mm
310	Bolt, M5 x 55 mm
311	Filter Plate Assembly
312	Bolt, M5 x 53 mm
314	Control Solenoid (w/ Body and TCM) Valve Assembly

cardiagn.com

315	A/Trans Manual Shaft Position Switch Wiring Harness Clip
316	A/Trans Input and Output Speed Sensor Wiring Harness Clip - Model Dependent

Upper Control Valve Body Assembly

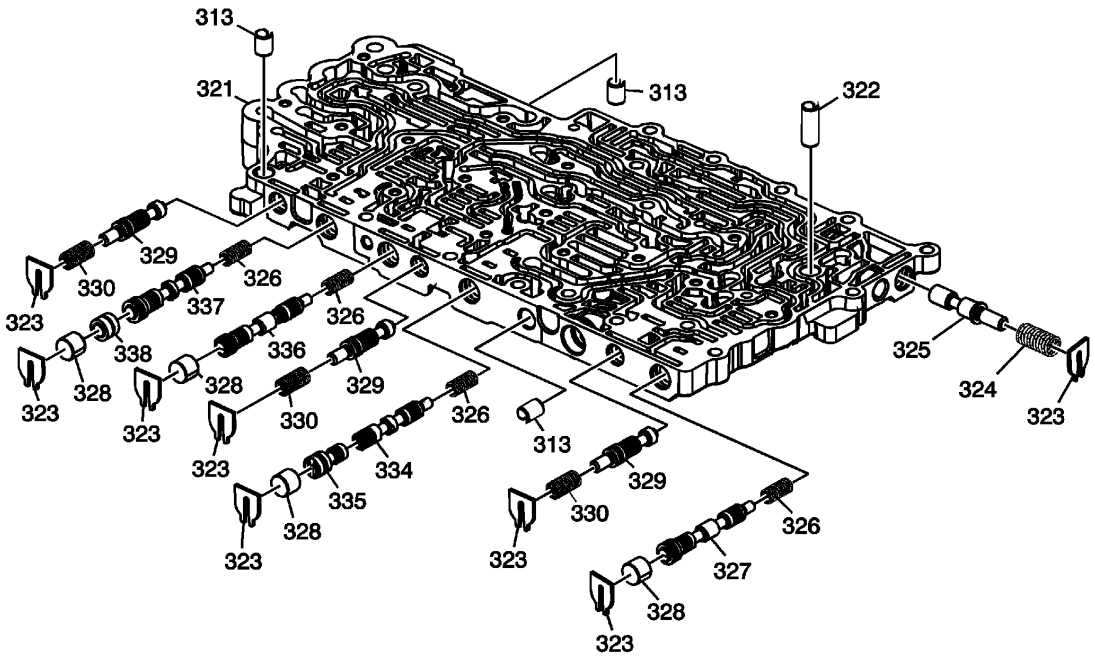

Fig. 5: View Of Upper Control Valve Body Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
313	Control Valve Body Locator Pin
321	Control Valve Upper Body
322	Control Valve Body Locator Pin
323	Retainer
324	Actuator Feed Limit Valve Spring
325	Actuator Feed Limit Valve
326	Clutch Regulator Valve Spring
327	CBR1/4-5-6 Clutch Regulator Valve
328	Clutch Regulator Valve Bore Plug
329	Clutch Boost Valve
330	Clutch Boost Valve Spring
334	2-6 Clutch Regulator Valve
335	2-6 Clutch Regulator Valve Gain Valve
336	3-5 Reverse Clutch Regulator Valve

cardiagn.com

337	1-2-3-4 Clutch Regulator Valve
338	Shuttle Valve

Lower Control Valve Body Assembly

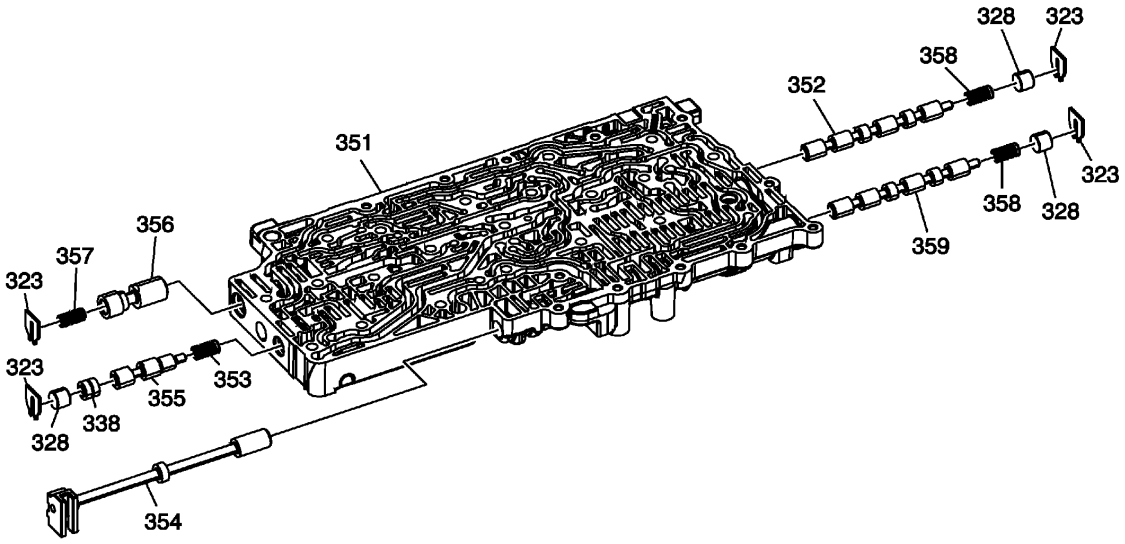

Fig. 6: View Of Lower Control Valve Body Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
323	Retainer
328	Clutch Regulator Valve Bore Plug
338	Shuttle Valve
351	Control Valve Lower Body
352	Clutch Select Solenoid Valve 3
353	TCC Regulator Apply Valve Spring
354	Manual Valve
355	TCC Regulator Apply Valve
356	Clutch Piston Dam Feed Regulator Valve
357	Clutch Piston Dam Feed Regulator Valve Spring
358	Clutch Select Solenoid Valve Spring
359	Clutch Select Solenoid Valve 2

1-2-3-4 and 3-5 Reverse Clutch Assembly

cardiagn.com

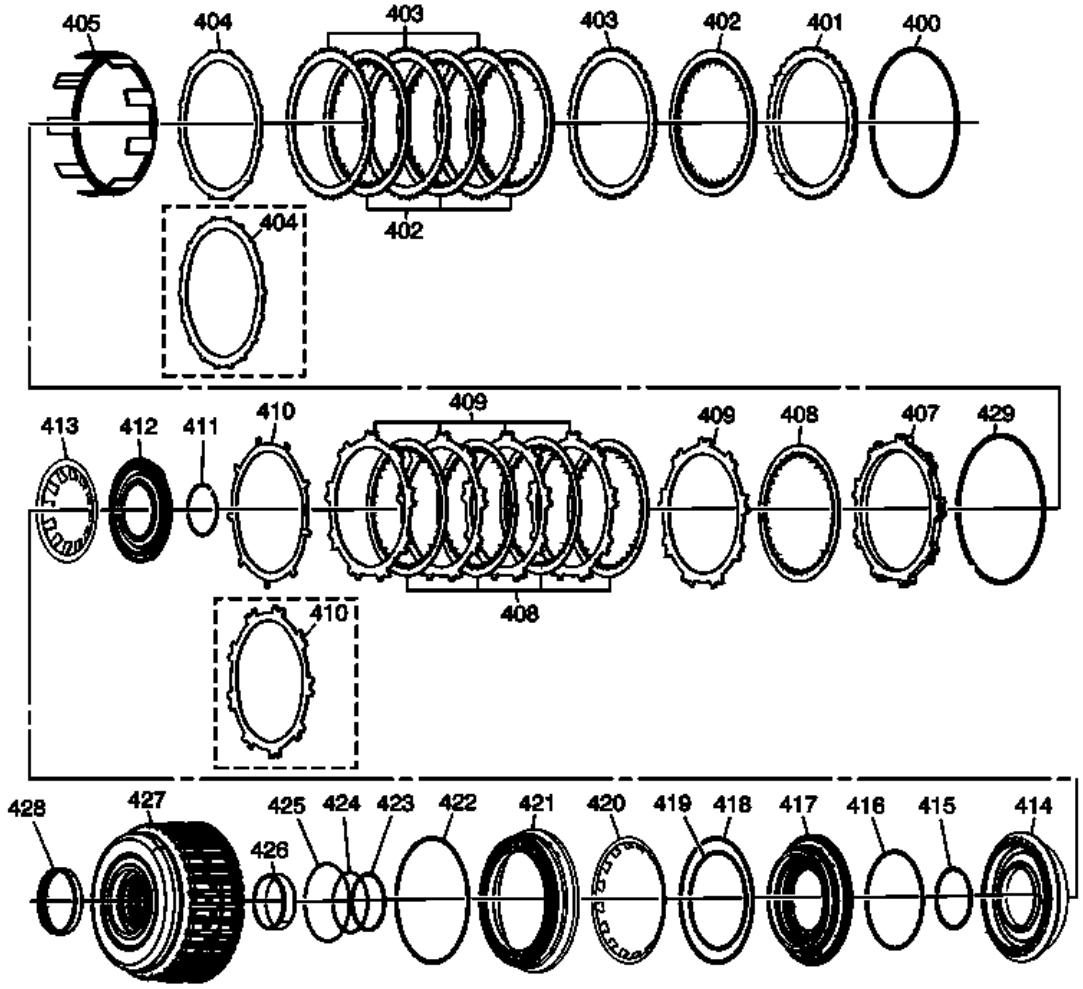

Fig. 7: 1-2-3-4 and 3-5 Reverse Clutch Assembly Component Views
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
400	3-5 Reverse Clutch Backing Plate Retaining Ring
401	3-5 Reverse Clutch Backing Plate
402	3-5 Reverse Clutch Plate Assembly
403	3-5 Reverse Clutch Plate
404	3-5 Reverse Clutch (Waved) Plate
405	3-5 Reverse Clutch Apply Ring
407	1-2-3-4 Clutch Backing Plate
408	1-2-3-4 Clutch Plate Assembly
409	1-2-3-4 Clutch Plate
410	1-2-3-4 Clutch (Waved) Plate
411	1-2-3-4 Clutch Piston Dam Retaining Ring
412	1-2-3-4 Clutch Piston Dam Assembly
413	1-2-3-4 Clutch Spring

cardiagn.com

414	1-2-3-4 Clutch Piston
415	1-2-3-4 Clutch Piston Housing Retaining Ring
416	1-2-3-4 Clutch Piston Seal
417	1-2-3-4 Clutch Piston Housing
418	3-5 Reverse Clutch Piston Dam (O-ring) Seal
419	3-5 Reverse Clutch Piston Inner Seal
420	3-5 Reverse Clutch Spring
421	3-5 Reverse Clutch Piston
422	3-5 Reverse Clutch Piston Outer Seal
423	1-2-3-4 Clutch Piston Inner Seal
424	1-2-3-4 Clutch Piston Housing Seal
425	1-2-3-4 Clutch Piston Housing Seal
426	1-2-3-4 and 3-5 Reverse Clutch Housing Rear Bushing
427	1-2-3-4 and 3-5 Reverse Clutch Housing Assembly
428	1-2-3-4 and 3-5 Reverse Clutch Bearing Assembly
429	1-2-3-4 Clutch Backing Plate Retaining Ring

4-5-6 (w/Turbine Shaft) Clutch Assembly

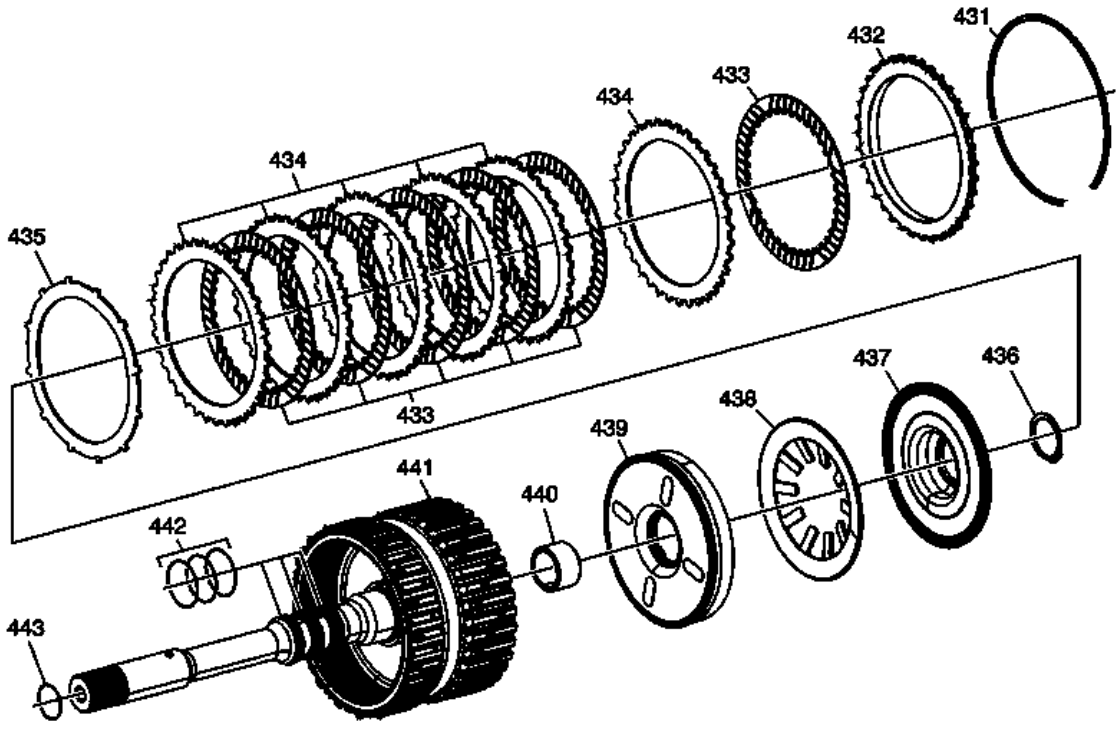

Fig. 8: 4-5-6 (w/Turbine Shaft) Clutch Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

cardiagn.com

432	4-5-6 Clutch Backing Plate
433	4-5-6 Clutch Plate Assembly
434	4-5-6 Clutch Plate
435	4-5-6 Clutch (Waved) Plate
436	4-5-6 Clutch Piston Dam Retaining Ring
437	4-5-6 Clutch Piston Dam Assembly
438	4-5-6 Clutch Spring
439	4-5-6 Clutch Piston Assembly
440	Output Carrier Shaft Housing Bushing
441	4-5-6 (w/Turbine Shaft) Housing Assembly
442	Turbine Shaft Fluid Seal Ring
443	Turbine Shaft (O-ring) Seal

2-6 Clutch Assembly

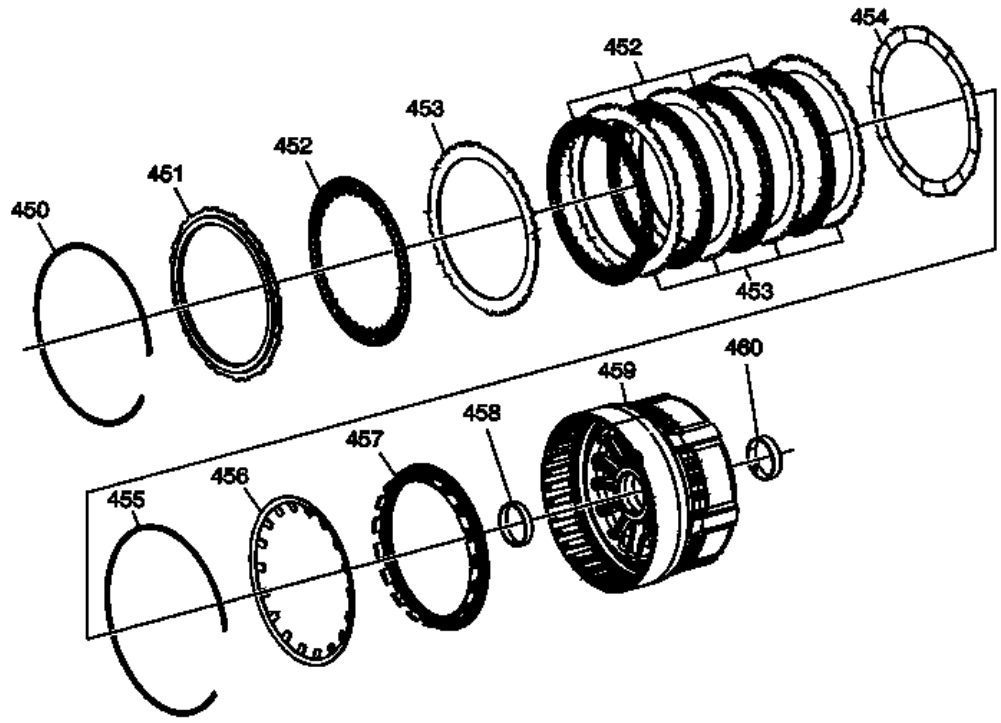

Fig. 9: 2-6 Clutch Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
450	2-6 Clutch Backing Plate Retaining Ring
451	2-6 Clutch Backing Plate
452	2-6 Clutch Plate Assembly
453	2-6 Clutch Plate

cardiagn.com

455	2-6 Clutch Spring Retaining Ring
456	2-6 Clutch Spring
457	2-6 Clutch Piston Assembly
458	Output Carrier Outer Sun Gear Shaft (Front) Bushing
459	Center Support Assembly
460	Output Carrier Outer Sun Gear Shaft Rear Bushing

Low and Reverse Clutch Assembly

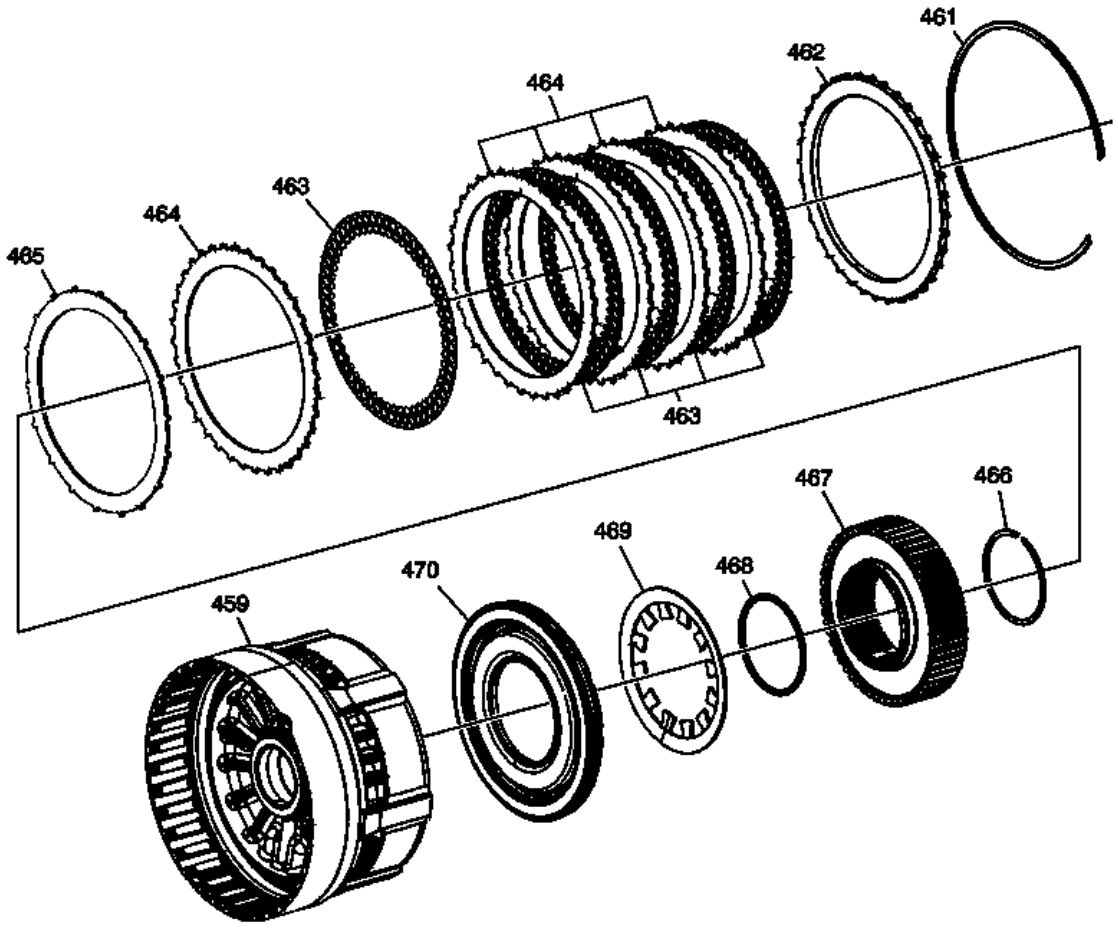

Fig. 10: Low and Reverse Clutch Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
459	Center Support Assembly
461	Low and Reverse Clutch Backing Plate Retaining Ring
462	Low and Reverse Clutch Backing Plate
463	Low and Reverse Clutch Plate Assembly

cardiagn.com

464	Low and Reverse Clutch Plate
465	Low and Reverse Clutch (Waved) Plate
466	Low and Reverse Clutch Spring Retaining Ring
467	Low Clutch Sprag Assembly
468	Low Clutch Sprag Seal
469	Low and Reverse Clutch Spring
470	Low and Reverse Clutch Piston Assembly

4-5-6 Clutch Hub Assembly

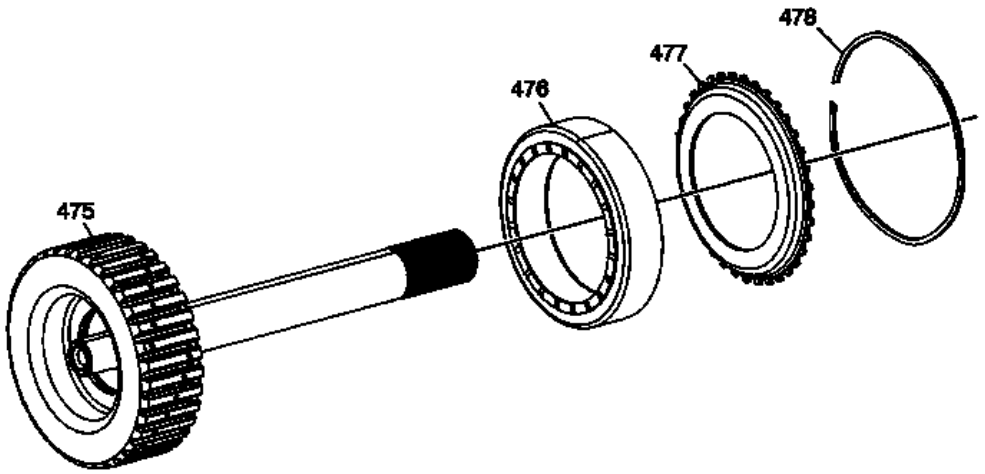

Fig. 11: 4-5-6 Clutch Hub Assembly Component Views
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
475	4-5-6 Clutch (w/ Output Carrier Shaft) Hub Assembly
476	4-5-6 Clutch Dampener
477	4-5-6 Clutch Dampener Apply Plate
478	4-5-6 Clutch Dampener Retaining Ring

Output Carrier Assembly

cardiagn.com

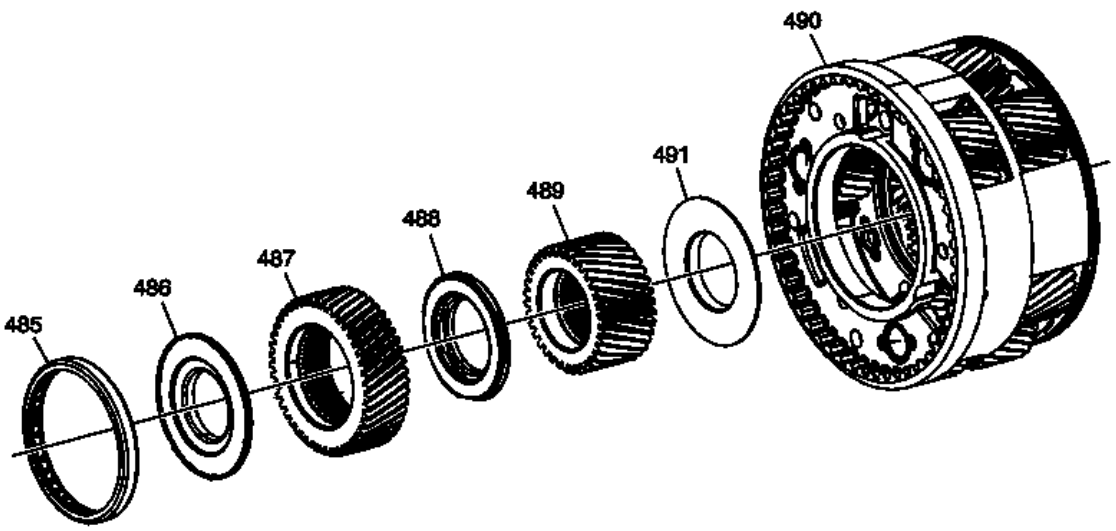

Fig. 12: Output Carrier Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
485	Center Support Roller Bearing Assembly
486	Output Carrier Front Sun Gear Thrust Bearing Assembly
487	Output Carrier Front Sun Gear
488	Output Carrier Front Sun Gear Rear Thrust Bearing Assembly
489	Output Carrier Rear Sun Gear
490	Output Carrier
491	Output Carrier Rear Sun Gear Thrust Bearing Assembly - Captured

Output Shaft Assembly

cardiagn.com

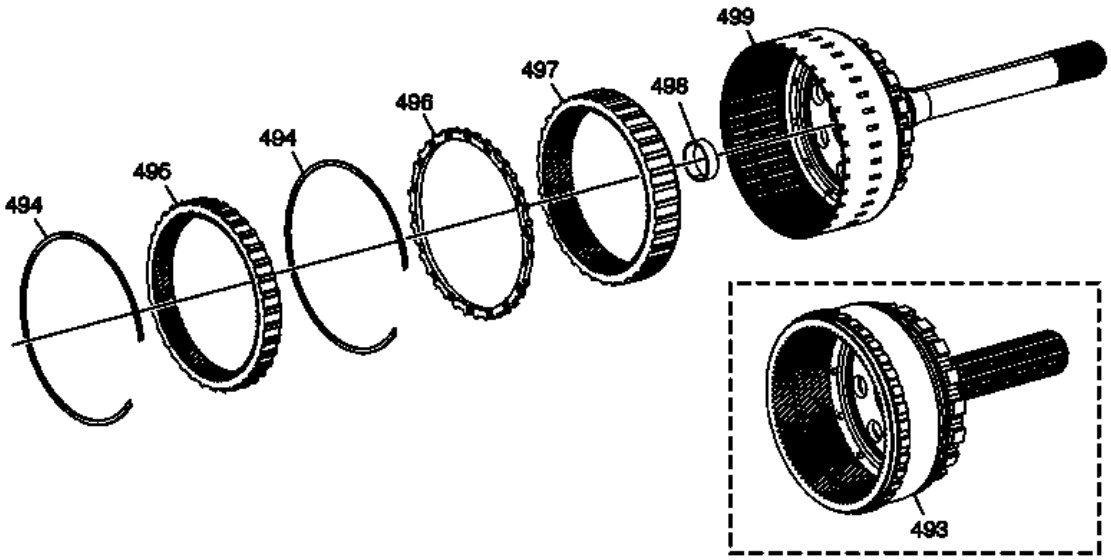

Fig. 13: View Of Output Shaft Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
493	Output Internal Gear Assembly - Model Dependent
494	Output Carrier Internal Gear Retaining Ring
495	Output Carrier Internal Front Gear
496	Output Carrier Internal Gear Spacer
497	Output Carrier Internal Rear Gear
498	Output Carrier Bushing
499	Output Shaft Assembly

Park System Components

cardiagn.com

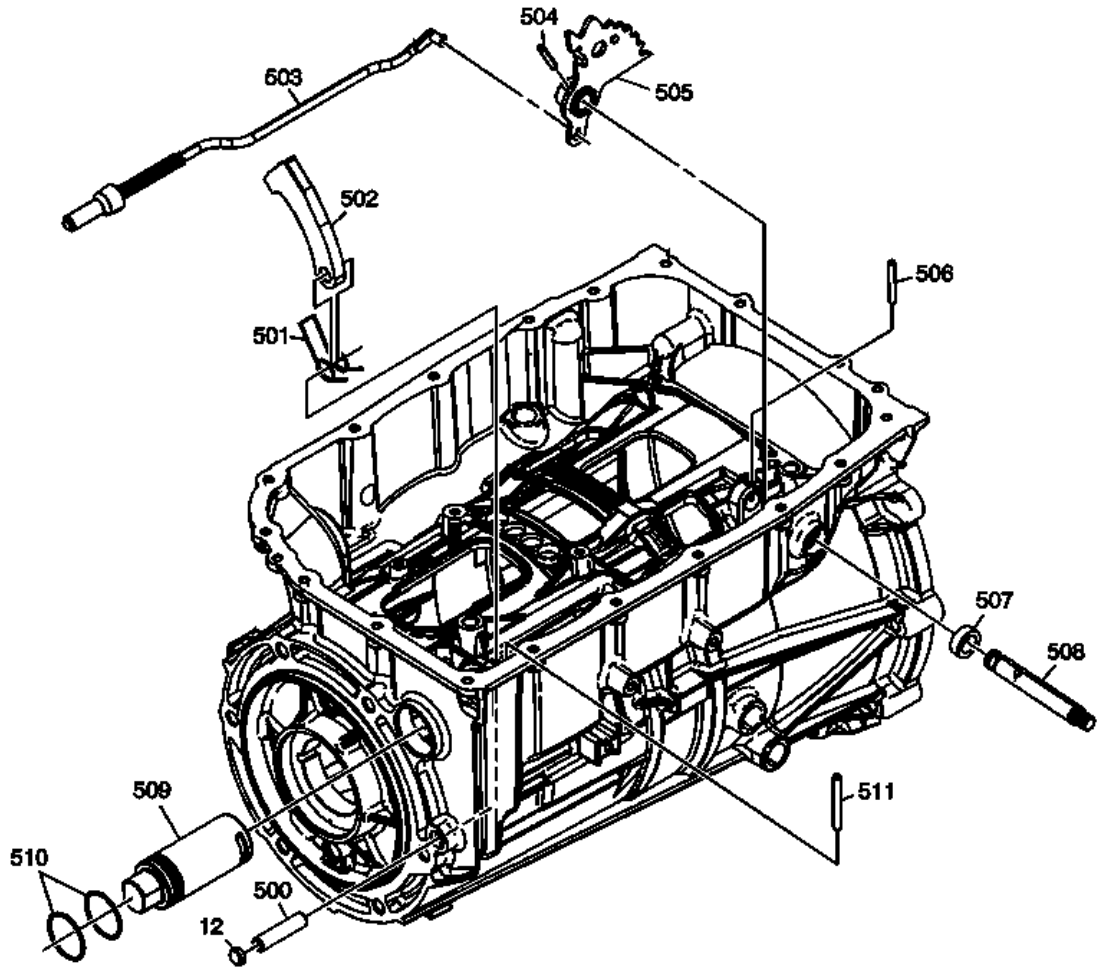

Fig. 14: Park System Components
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
12	A/Trans Case Plug
500	Park Pawl Shaft
501	Park Pawl Spring
502	Park Pawl
503	Park Pawl Actuator Assembly
504	Manual Shaft Detent Lever Hub Pin
505	Manual Shaft Detent Lever Assembly
506	Manual Shift Shaft Pin
507	Manual Shift Shaft Seal
508	Manual Shift Shaft
509	Park Pawl Actuator Guide
510	Park Pawl Actuator Guide (O-ring) Seal
511	Park Pawl Actuator Guide Pin

cardiagn.com

COMPONENT LOCATION (6L50/80/90)

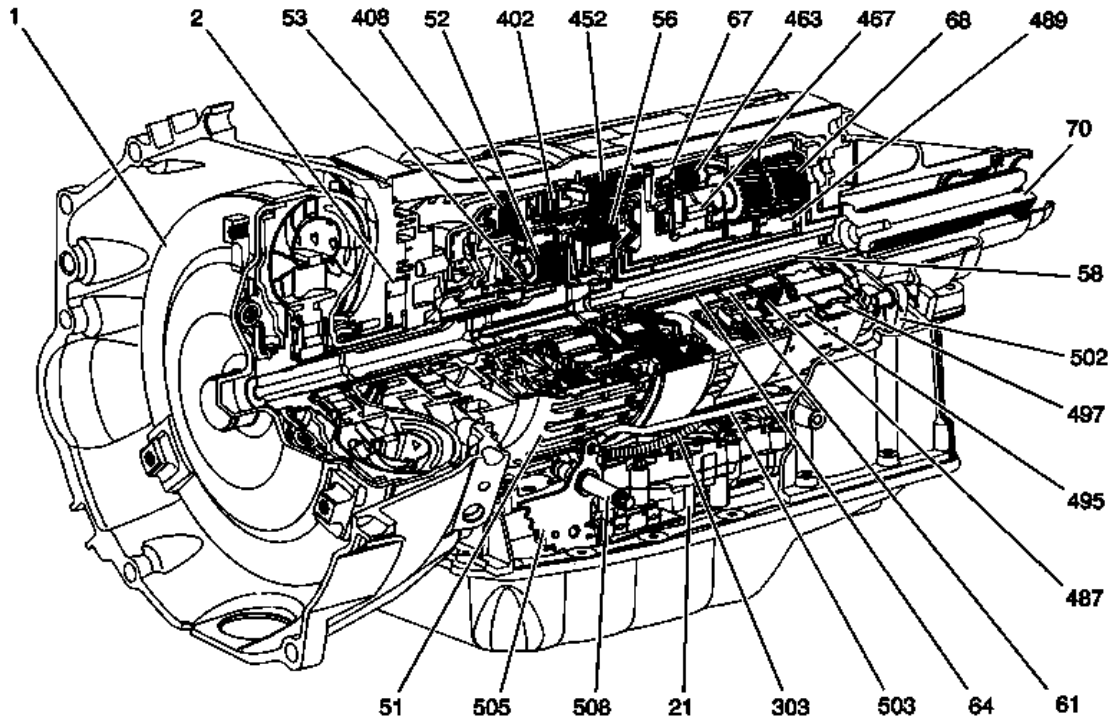

Fig. 15: Automatic Transmission Component Locations
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Torque Converter Assembly
2	Torque Converter (with Fluid Pump) Housing Assembly
21	Control (with Body and Valve) Valve Assembly
51	1-2-3-4 and 3-5 Reverse Clutch Assembly
52	Input Carrier Assembly
53	Input Sun Gear
56	4-5-6 (w/Turbine Shaft) Clutch Assembly
58	4-5-6 Clutch (w/Output Carrier Shaft and Dampener) Hub Assembly
61	1-2-3-4 Clutch (w/Output Carrier Inner Sun Gear Shaft) Hub Assembly
64	2-6 and 3-5 Reverse Clutch (w/Output Carrier Outer Sun Gear Shaft) Hub Assembly
67	Center (w/2-6 Low and Reverse Clutch) Support Assembly
68	Output Carrier Assembly
70	Output Shaft Assembly
303	A/Trans Input and Output Speed Sensor Assembly
402	3-5 Reverse Clutch Plate Assembly
408	1-2-3-4 Clutch Plate Assembly

cardiagn.com

463	Low and Reverse Clutch Plate Assembly
467	Low Clutch Sprag Assembly
487	Output Carrier Front Sun Gear
489	Output Carrier Rear Sun Gear
495	Output Carrier Internal Front Gear
497	Output Carrier Internal Rear Gear
502	Park Pawl
503	Park Pawl Actuator Assembly
505	Manual Shaft Detent Lever Assembly
508	Manual Shift Shaft

BUSHING, BEARING AND WASHER LOCATIONS (6L80)

Bushing, Bearing and Washer Locations

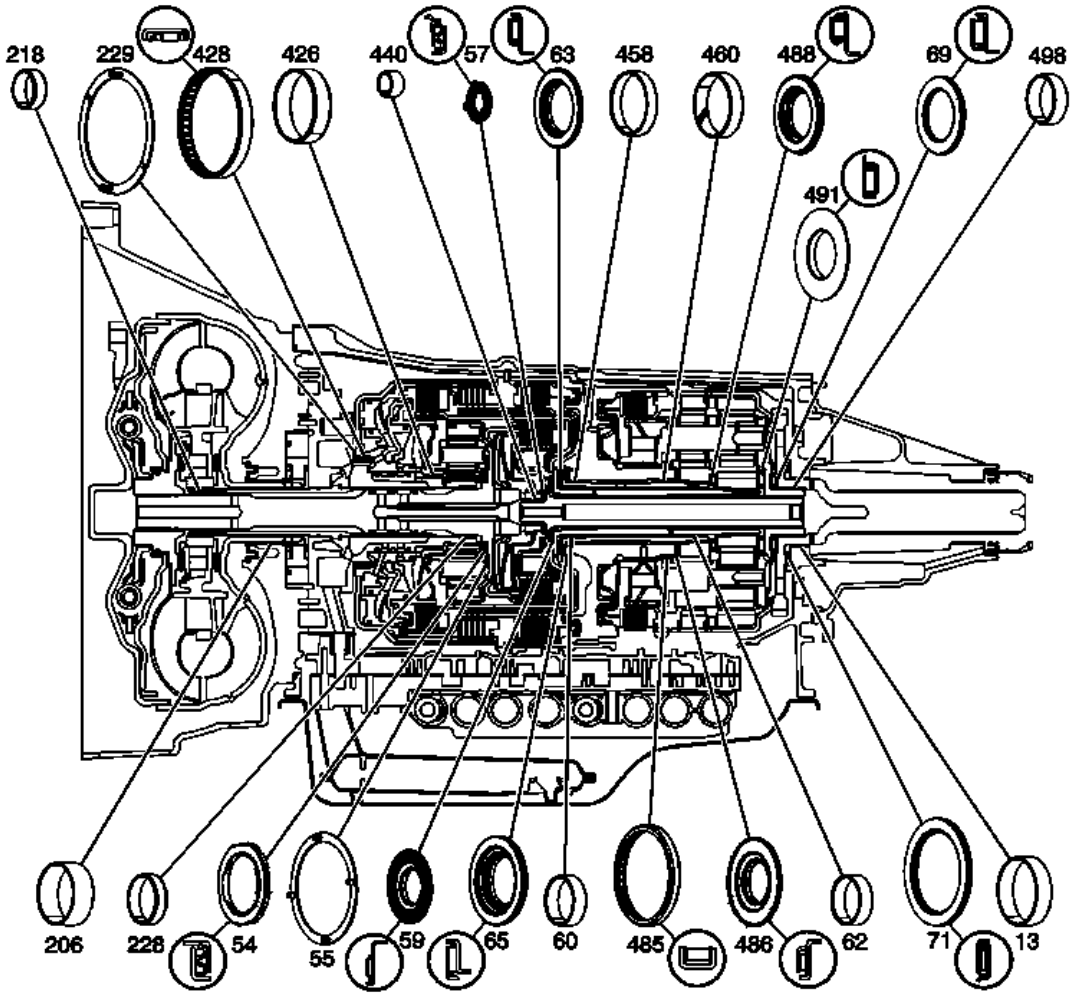

Fig. 16: Bushing, Bearing and Washer Locations
Courtesy of GENERAL MOTORS COMPANY

cardiagn.com

Callout	Component Name
13	Output Shaft Bushing
54	Input Sun Gear Thrust Bearing
55	Input Sun Gear Thrust Washer
57	Turbine Shaft Thrust Bearing Assembly
59	4-5-6 Clutch Hub Thrust Bearing Assembly
60	Output Carrier Inner Sun Gear Shaft (Front) Bushing
62	Output Carrier Inner Sun Gear Shaft Bushing
63	1-2-3-4 Clutch Hub Thrust Bearing Assembly
65	2-6 and 3-5 Reverse Clutch Hub Thrust Bearing Assembly
69	Output Carrier Thrust Bearing Assembly
71	Output Shaft Thrust Bearing Assembly
206	Torque Converter Bushing
218	Turbine Shaft Front Bushing
228	Turbine Shaft Rear Bushing
229	1-2-3-4 and 3-5 Reverse Clutch Housing Thrust Washer
426	1-2-3-4 and 3-5 Reverse Clutch Housing Rear Bushing
428	1-2-3-4 and 3-5 Reverse Clutch Bearing Assembly
440	Output Carrier Shaft Housing Bushing
458	Output Carrier Outer Sun Gear Shaft (Front) Bushing
460	Output Carrier Outer Sun Gear Shaft Rear Bushing
485	Center Support Roller Bearing Assembly
486	Output Carrier Front Sun Gear Thrust Bearing Assembly
488	Output Carrier Front Sun Gear Rear Thrust Bearing Assembly
491	Output Carrier Rear Sun Gear Thrust Bearing - Captured
498	Output Carrier Bushing

SEAL LOCATIONS (6L80)

Seal Locations

cardiagn.com

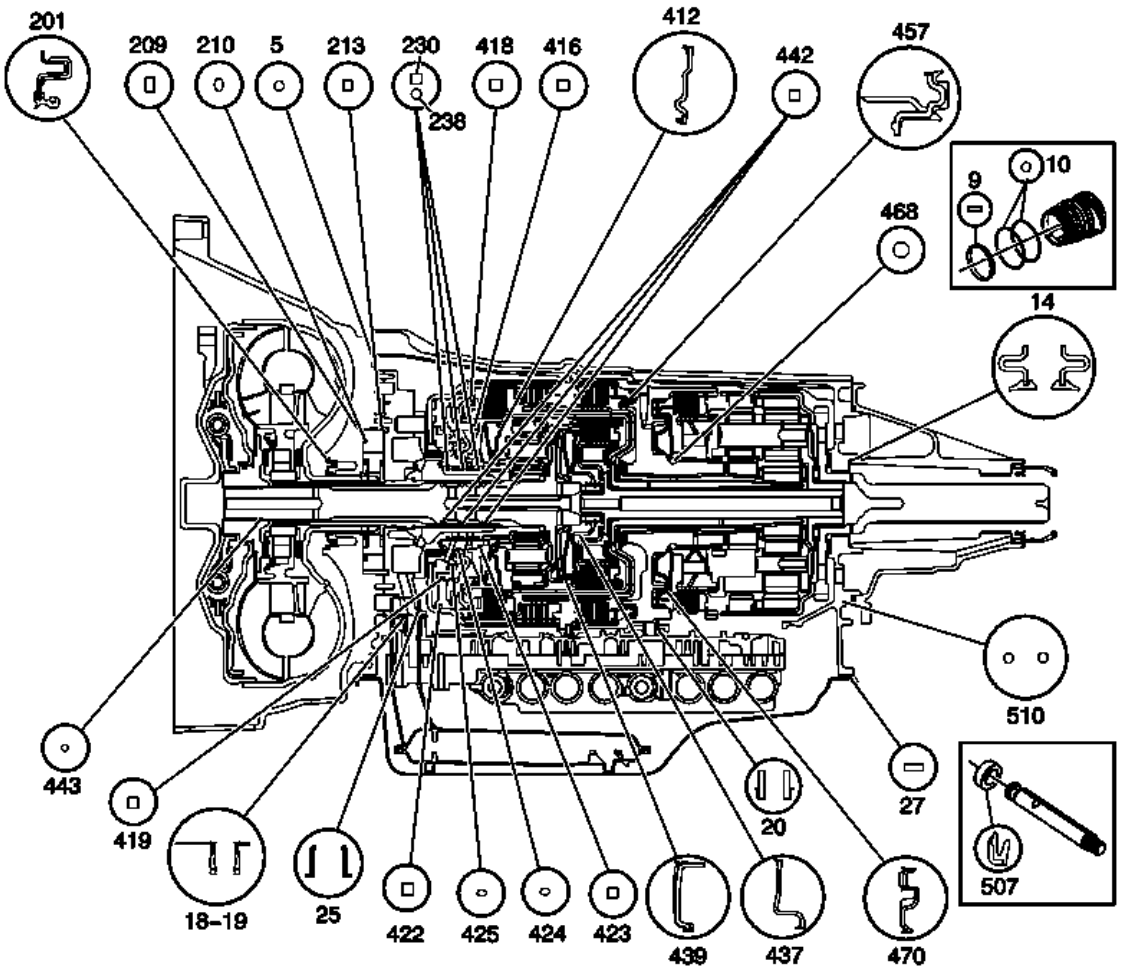

Fig. 17: Seal Locations
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
5	A/Trans Fluid Pump Seal
9	A/Trans Connector Seal
10	A/Trans Connector (O-ring) Seal
14	Output Shaft Seal Assembly
18	A/Trans Fluid Pump Seal Assembly
19	A/Trans Fluid Pump Seal Assembly
20	Center Support Fluid Passage Seal Assembly
25	A/Trans Fluid Filter Seal Assembly
27	A/Trans Fluid Pan Gasket
201	Torque Converter Fluid Seal Assembly
209	A/Trans Fluid Pump Slide Fluid Seal Ring
210	A/Trans Fluid Pump Slide (O-ring) Seal
213	A/Trans Fluid Pump Slide Seal

cardiagn.com

230	1-2-3-4 and 3-5 Reverse Clutch Fluid Seal Ring
238	1-2-3-4 and 3-5 Reverse Clutch Fluid Seal Rings - Inner O-rings
412	1-2-3-4 Clutch Piston Dam Assembly
416	1-2-3-4 Clutch Piston Seal
418	3-5 Reverse Clutch Piston Dam (O-ring) Seal
419	3-5 Reverse Clutch Piston Inner Seal
422	3-5 Reverse Clutch Piston Outer Seal
423	1-2-3-4 Clutch Piston Inner Seal
424	1-2-3-4 Clutch Piston Housing Seal
425	1-2-3-4 Clutch Piston Housing Seal
437	4-5-6 Clutch Piston Dam Assembly
439	4-5-6 Clutch Piston Assembly
442	Turbine Shaft Fluid Seal Ring
443	Turbine Shaft (O-ring) Seal
457	2-6 Clutch Piston Assembly
468	Low Clutch Sprag Seal
470	Low and Reverse Clutch Piston Assembly
507	Manual Shift Shaft Seal
510	Park Pawl Actuator Guide (O-ring) Seal

BALL CHECK VALVE LOCATIONS

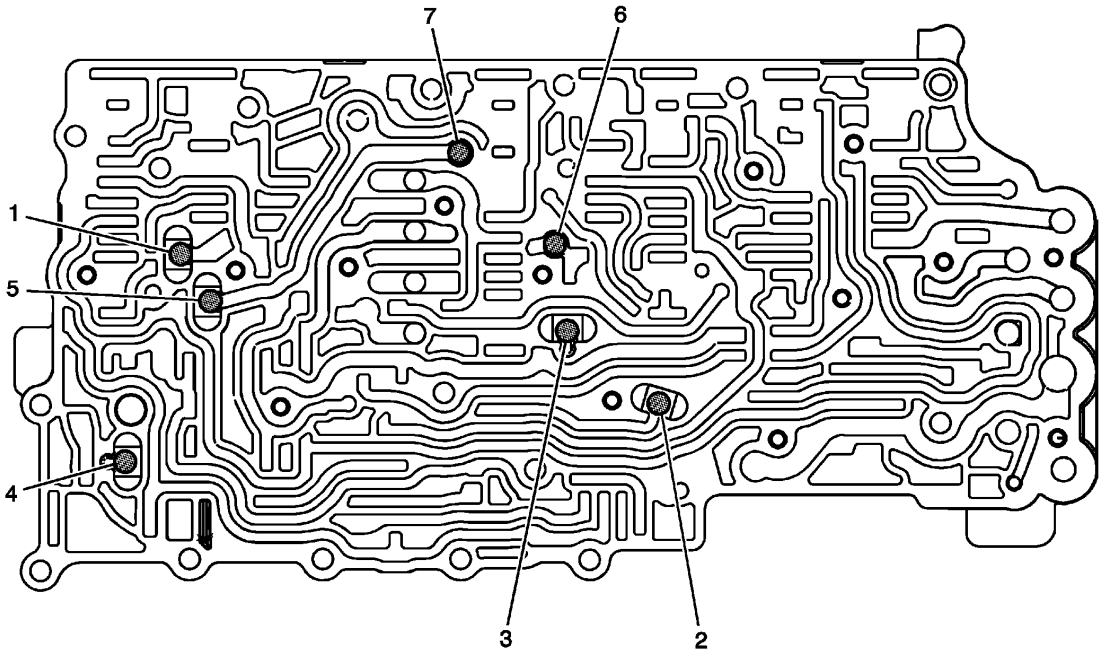

Fig. 18: Ball Check Valve Locations

cardiagn.com

Courtesy of GENERAL MOTORS COMPANY

Ball Check Valve Locations

I.D.	Input Oil	Input Oil	Output Oil
1	Drive 1-6	DRV B	CB26/C1234 FD
2	Sol 1	Reverse (Park)	CSV2 Enable
3	Sol 2	C456	CSV3 Enable
4	PS4	C456	CSV2 Latch
5	Drive 1-6	C35R Rev FD	C35R Supply
6	CB26/C1234 FD	-	C1234 FD
7	C35R Supply	-	C35R FD

cardiagn.com