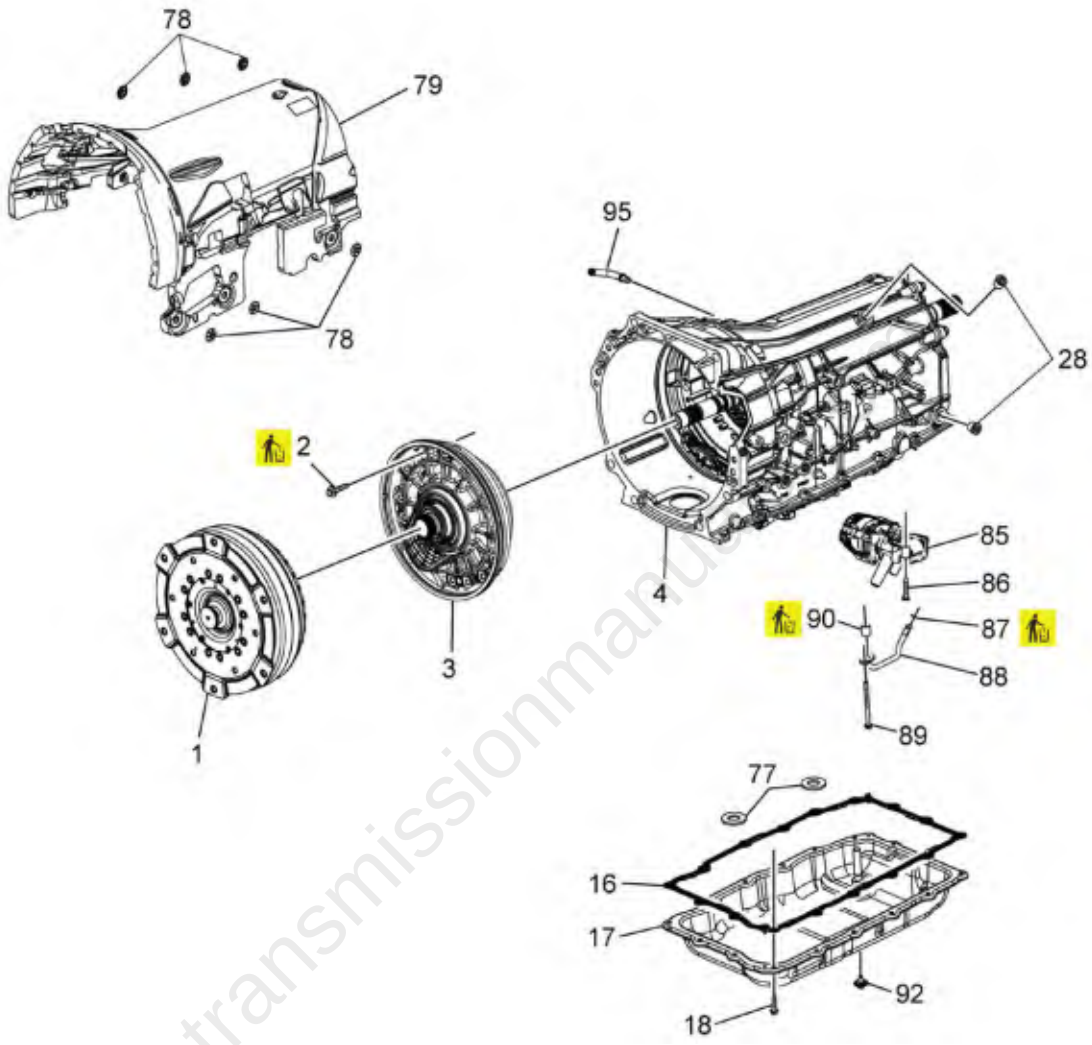
# COMPONENT LOCATOR

## DISASSEMBLED VIEWS (2WD)

### Case and Associated Parts (1 of 3)




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**Fig. 1: Exploded View Of Case And Associated Parts (1 of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 1 | Torque Converter |
| 2 | Input Shaft Support Bolt |
| 3 | Automatic Transmission Case Cover |
| 4 | Automatic Transmission Case |
| 16 | Automatic Transmission Fluid Pan Gasket |
| 17 | Automatic Transmission Fluid Pan |
| 18 | Automatic Transmission Fluid Pan Bolt |
| 28 | Automatic Transmission Case Plug |
| 77 | Automatic Transmission Fluid Pan Magnet |
| 78 | Transmission Nut |
| 79 | Transmission Housing Sound Insulator |
| 85 | Automatic Transmission Auxiliary Fluid Pump |

| Callout | Component Name |
|---|---|
| 86 | Automatic Transmission Auxiliary Fluid Pump Bolt |
| 87 | Automatic Transmission Auxiliary Fluid Pump Outlet Pipe Seal |
| 88 | Automatic Transmission Auxiliary Fluid Pump Outlet Pipe |
| 89 | Control Valve Upper Body Bolt |
| 90 | Automatic Transmission Auxiliary Fluid Pump Seal |
| 92 | Transmission Oil Level Check Plug |
| 95 | Automatic Transmission Vent Pipe |

**Case and Associated Parts (2 of 3)**

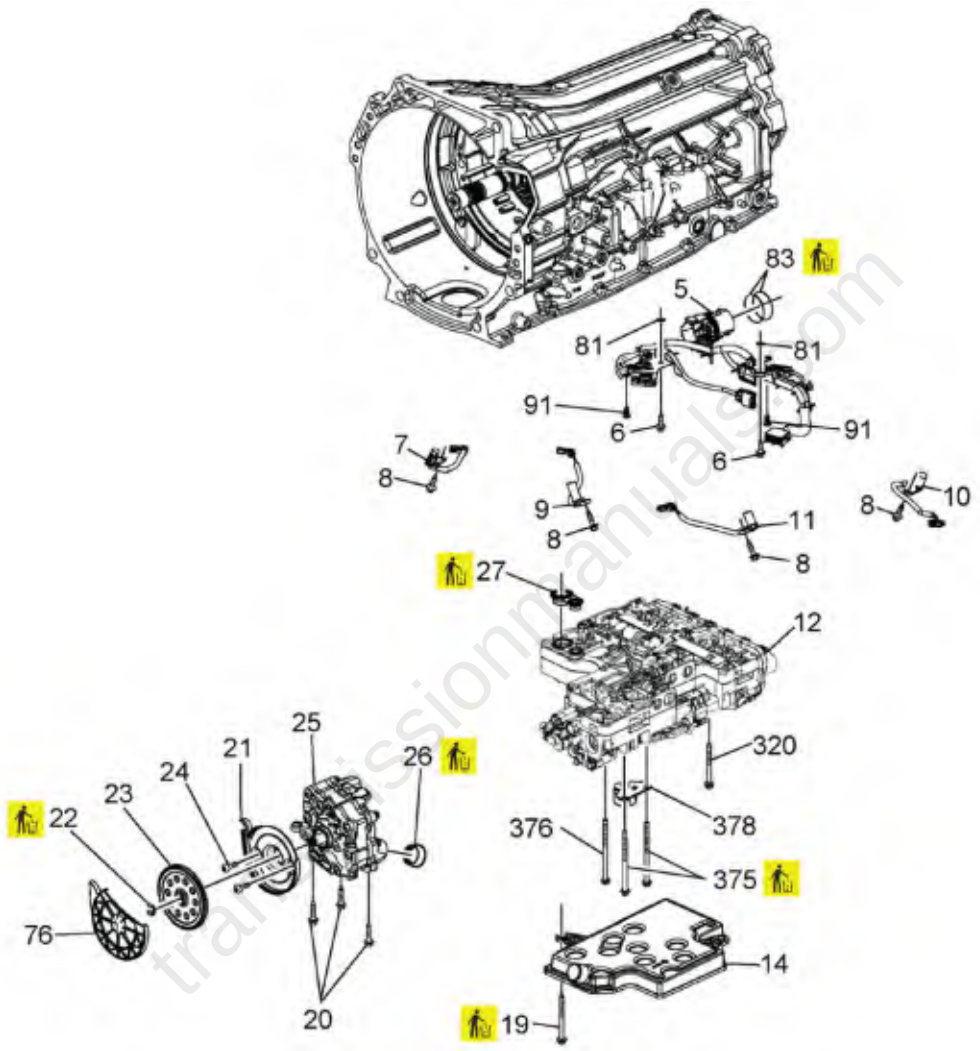



**Fig. 2: Exploded View Of Case And Associated Parts (2 of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 5 | Automatic Transmission Wiring Harness - Pass-Through |
| 6 | Automatic Transmission Control Wiring Harness Clip Bracket Bolt |
| 7 | Automatic Transmission Turbine Speed Sensor |
| 8 | Automatic Transmission Speed Sensor Bolt |
| 9 | Automatic Transmission Intermediate Speed Sensor - A |
| 10 | Automatic Transmission Output Speed Sensor |
| 11 | Automatic Transmission Intermediate Speed Sensor - B |
| 12 | Control Valve |
| 14 | Automatic Transmission Fluid Filter |
| 19 | Automatic Transmission Fluid Filter Bolt |

| Callout | Component Name |
|---|---|
| 20 | Automatic Transmission Fluid Pump Bolt |
| 21 | Automatic Transmission Fluid Pump Driven Gear Baffle - Base |
| 22 | Automatic Transmission Fluid Pump Drive Shaft Retaining Ring |
| 23 | Automatic Transmission Fluid Pump Driven Gear |
| 24 | Automatic Transmission Fluid Pump Cover Bolt |
| 25 | Automatic Transmission Fluid Pump |
| 26 | Automatic Transmission Fluid Pump Seal - Pump |
| 27 | Automatic Transmission Fluid Pump Seal - Valve Body |
| 76 | Automatic Transmission Fluid Pump Driven Gear Baffle - Shroud |
| 81 | Automatic Transmission Control Wiring Harness Retainer - Push Nut |
| 83 | Wiring Harness Connector Seal - O-Ring |
| 91 | Automatic Transmission Control Wiring Harness Retainer - Push Type |
| 320 | Control Valve Solenoid Body Bolt |
| 375 | Control Valve Solenoid Body Bolt |
| 376 | Control Valve Body Bolt |
| 378 | Park Inhibitor Solenoid |

**Case and Associated Parts (3 of 3)**

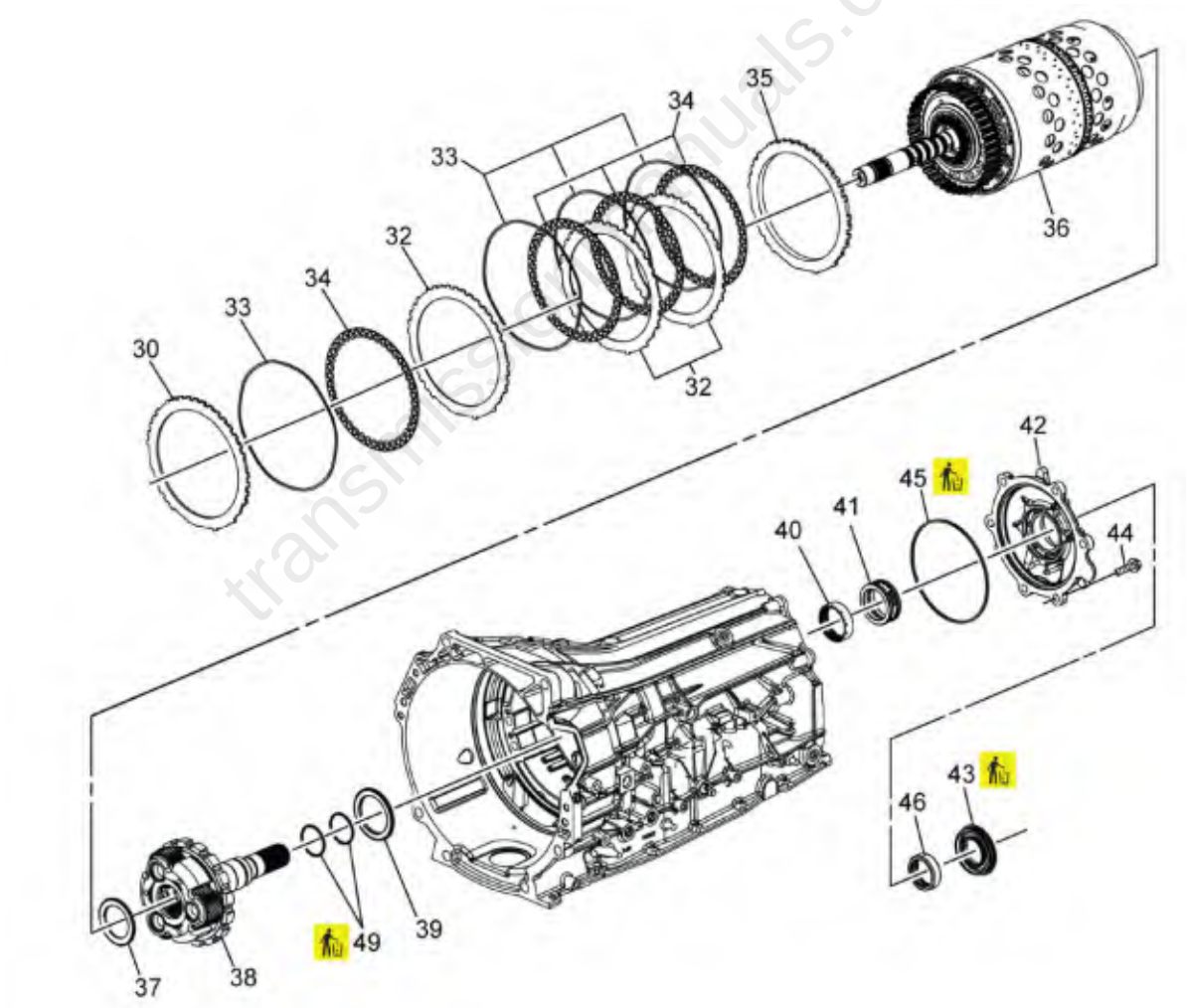



**Fig. 3: Exploded View Of Case And Associated Parts (3 of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 30 | 1-2-3-4-5-6-Reverse Clutch Apply Plate - Selective |

| Callout | Component Name |
|---|---|
| 32 | 1-2-3-4-5-6-Reverse Clutch Steel Plate |
| 33 | 1-2-3-4-5-6-Reverse Clutch Piston Return Spring |
| 34 | 1-2-3-4-5-6-Reverse Clutch Friction Plate |
| 35 | 1-2-3-4-5-6-Reverse Clutch Backing Plate |
| 36 | Rotating Clutch, Gear, and Shaft Shell |
| 37 | Output Carrier Thrust Bearing |
| 38 | Output Carrier |
| 39 | Output Carrier Thrust Bearing |
| 40 | Output Shaft Bearing |
| 41 | Output Shaft Sleeve |
| 42 | Automatic Transmission Case Extension |
| 43 | Propeller Shaft Transmission Flange Fluid Seal |
| 44 | Automatic Transmission Case Extension Bolt |
| 45 | Automatic Transmission Case Extension Seal |
| 46 | Output Shaft Bearing |
| 49 | Output Shaft Seal [2x] |

**Clutch Assemblies and Associated Parts**

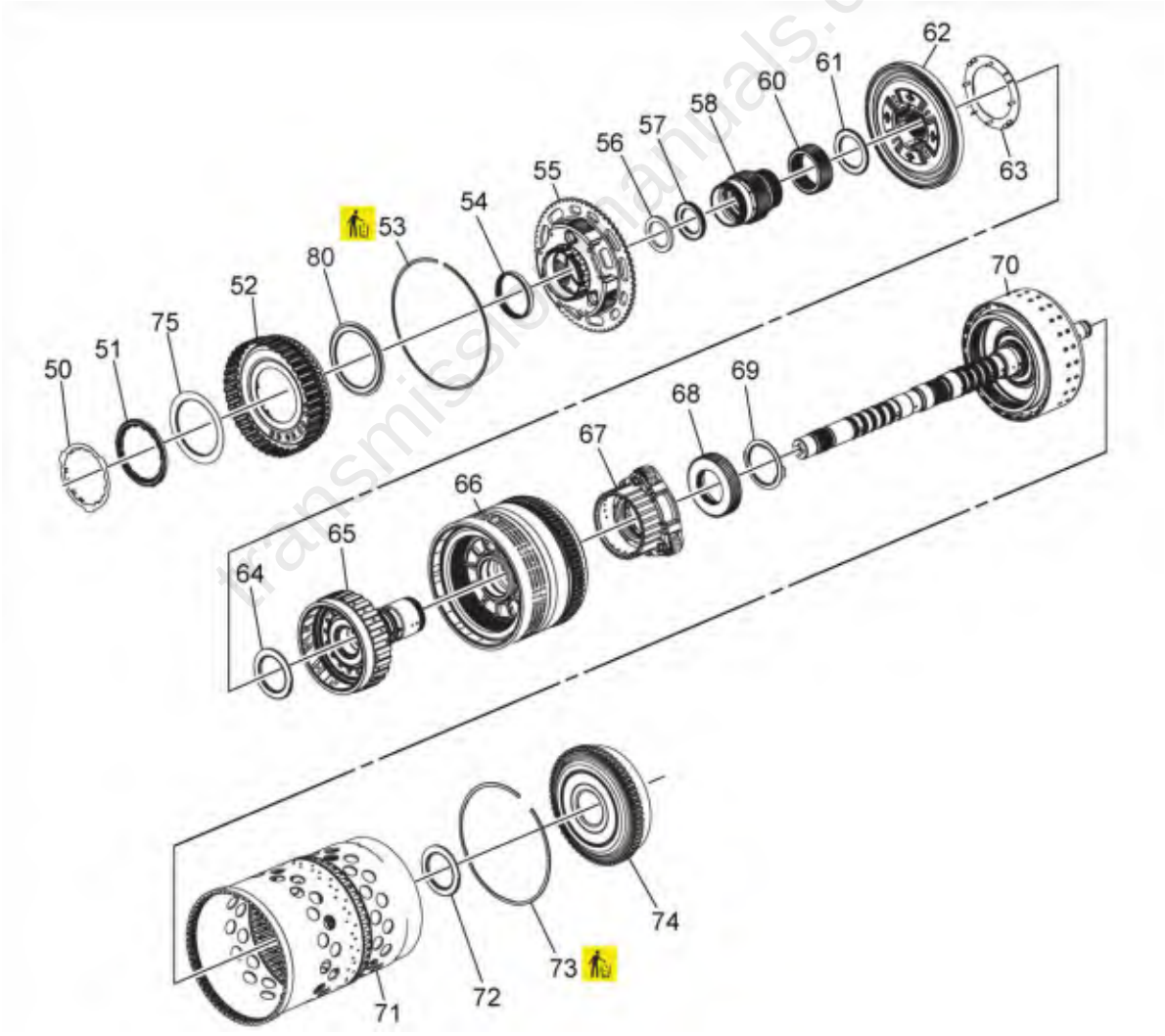



**Fig. 4: Exploded View Of Clutch Assemblies And Associated Parts**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 50 | Reaction Internal Gear Spacer Retainer |

| Callout | Component Name |
|---|---|
| 51 | Reaction Internal Gear Spacer |
| 52 | Reaction Internal Gear |
| 53 | Reaction Carrier Hub Retaining Ring |
| 54 | Reaction Carrier Hub Bearing |
| 55 | Reaction Carrier |
| 56 | Transmission Case Washer |
| 57 | Reaction Sun Gear Thrust Bearing |
| 58 | Reaction Sun Gear |
| 59 | Automatic Transmission Input Shaft Speed Sensor Reluctor Wheel |
| 60 | Input Sun Gear |
| 61 | Input Sun Gear Thrust Bearing |
| 62 | Input Carrier |
| 63 | Input Carrier Lube Dam |
| 64 | Input Sun Gear Thrust Bearing |
| 65 | Direct Overdrive Sun Gear Shaft |
| 66 | Triple Clutch Housing |
| 67 | Direct Overdrive Carrier |
| 68 | Direct Overdrive Sun Gear |
| 69 | Direct Overdrive Sun Gear Thrust Bearing |
| 70 | Main Shaft |
| 71 | Output Carrier Internal Gear Transfer Shell |
| 72 | Output Carrier Thrust Bearing |
| 73 | Output Carrier Internal Gear Retaining Ring |
| 74 | Output Carrier Internal Gear |
| 75 | Reaction Internal Gear Thrust Bearing |
| 80 | Reaction Internal Gear Thrust Bearing |

**Control Valve Assembly**

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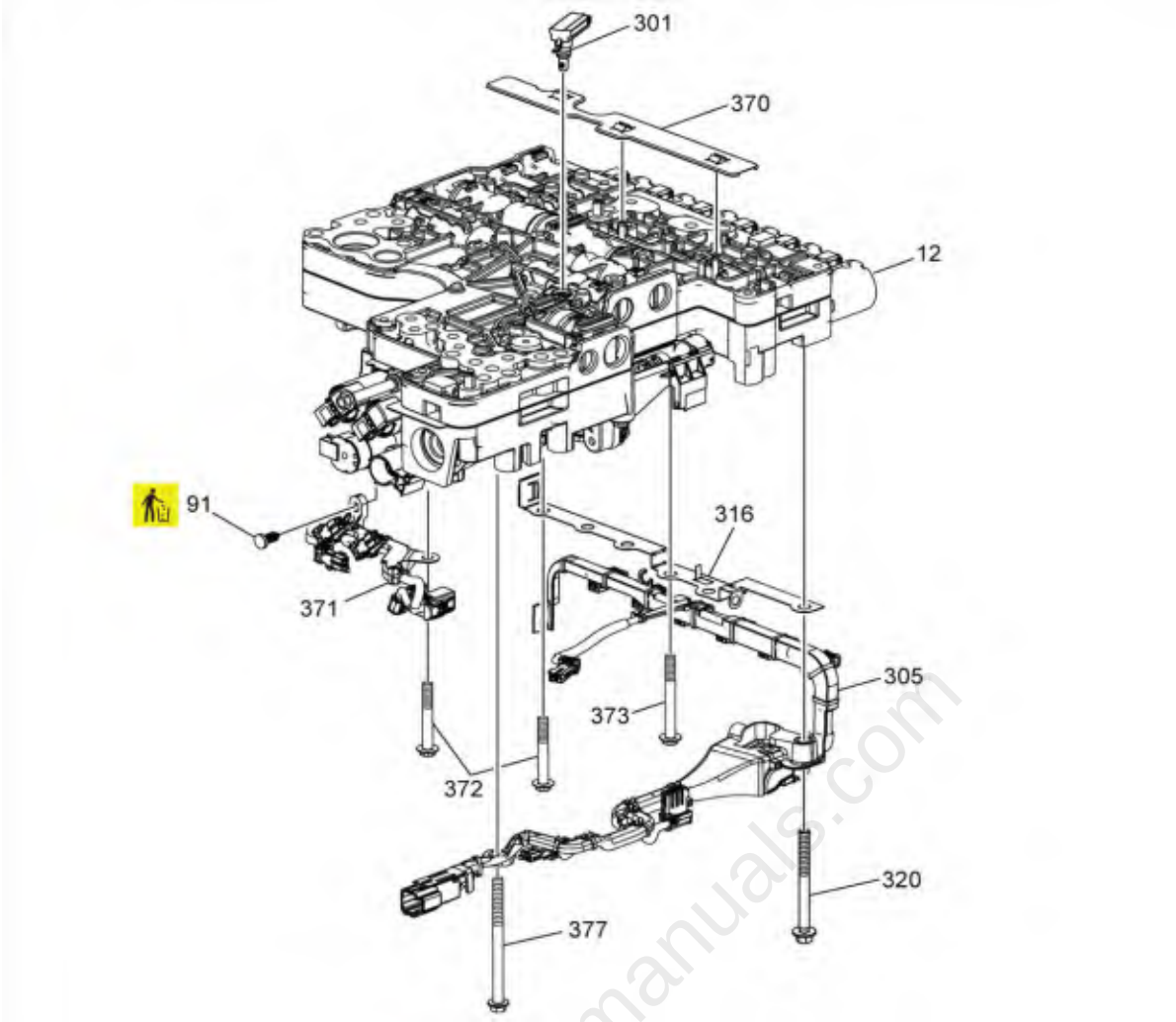



**Fig. 5: Exploded View Of Control Valve Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 12 | Control Valve |
| 91 | Automatic Transmission Control Wiring Harness Retainer |
| 301 | Automatic Transmission Fluid Temperature Sensor |
| 305 | Automatic Transmission Wiring Harness - Main/Solenoid |
| 316 | Control Valve Body Fluid Passage Cover |
| 320 | Control Valve Solenoid Body Bolt |
| 370 | Control Valve Body Fluid Passage Cover |
| 371 | Automatic Transmission Wiring Harness - Jumper |
| 372 | Control Valve Upper Body Bolt |
| 373 | Control Valve Upper Body Bolt |
| 377 | Control Valve Upper Body Bolt |

**Stator Shaft Support Assembly**

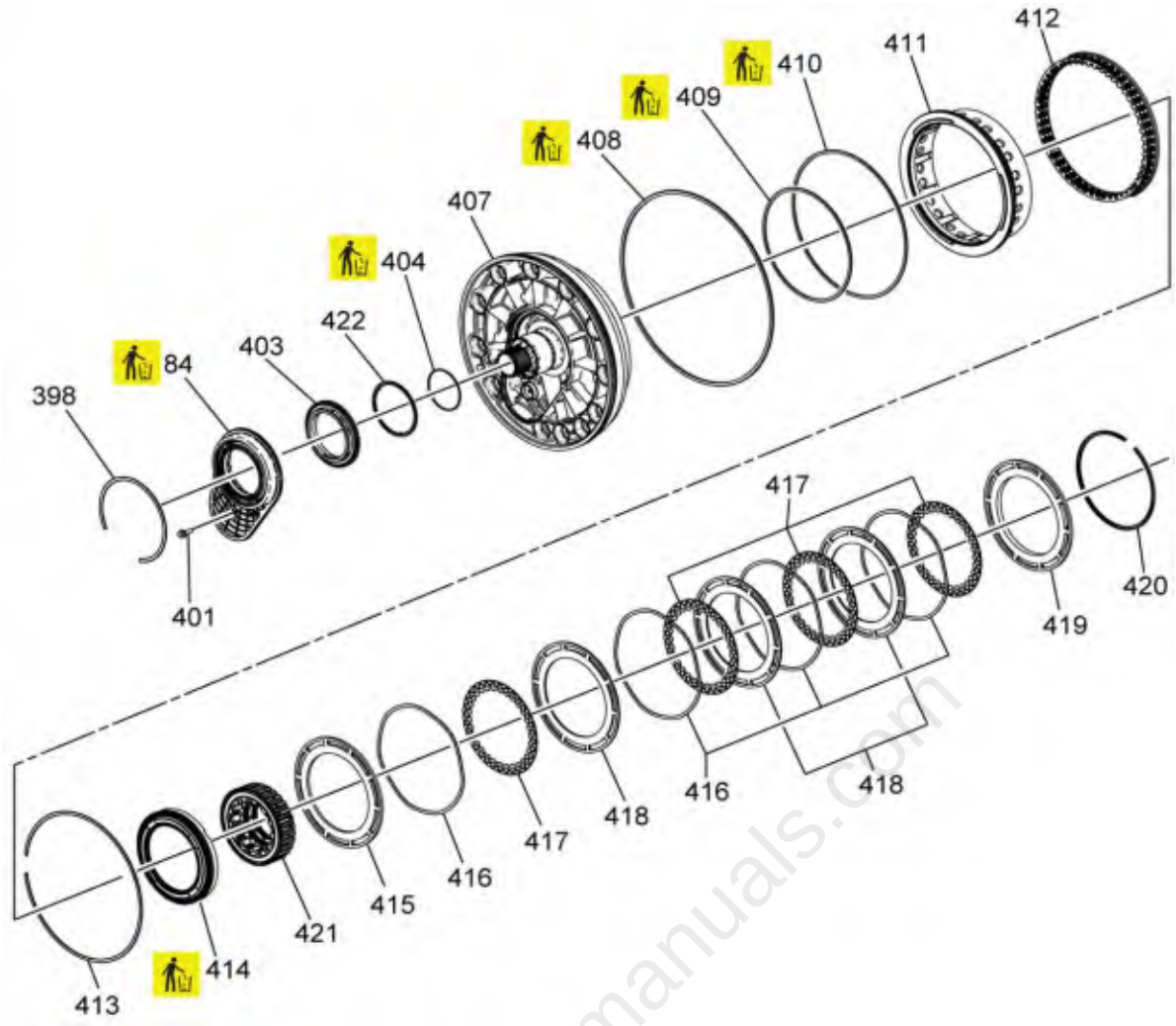



**Fig. 6: Exploded View Of Stator Shaft Support Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 84 | Automatic Transmission Case Front Cover |
| 398 | Automatic Transmission Case Cover Retaining Ring |
| 401 | Automatic Transmission Case Front Cover Bolt |
| 403 | Automatic Transmission Fluid Pump Drive Gear |
| 404 | Torque Converter Fluid Seal |
| 407 | Stator Shaft Support |
| 408 | Stator Shaft Support Seal |
| 409 | 1-2-3-4-5-6-Reverse Clutch Piston Seal- Inner |
| 410 | 1-2-3-4-5-6-Reverse Clutch Piston Seal- Outer |
| 411 | 1-2-3-4-5-6-Reverse Clutch Piston |
| 412 | 1-2-3-4-5-6-Reverse Clutch Piston Return Spring |
| 413 | 1-2-3-4-5-6 Clutch Spring Retaining Ring |
| 414 | 1-2-8-9-10-Reverse Clutch Piston |
| 415 | 1-2-8-9-10-Reverse Clutch Apply Plate |
| 416 | 1-2-8-9-10-Reverse Clutch Piston Return Spring |
| 417 | 1-2-8-9-10-Reverse Fiber Clutch Plate |
| 418 | 1-2-8-9-10-Reverse Steel Clutch Plate |
| 419 | 1-2-8-9-10-Reverse Clutch Backing Plate |
| 420 | 1-2-8-9-10-Reverse Clutch Backing Plate Retaining Ring |
| 421 | Low Clutch Roller |
| 422 | Center Support Thrust Washer |

### Direct/Overdrive Sun Gear Shaft Assembly

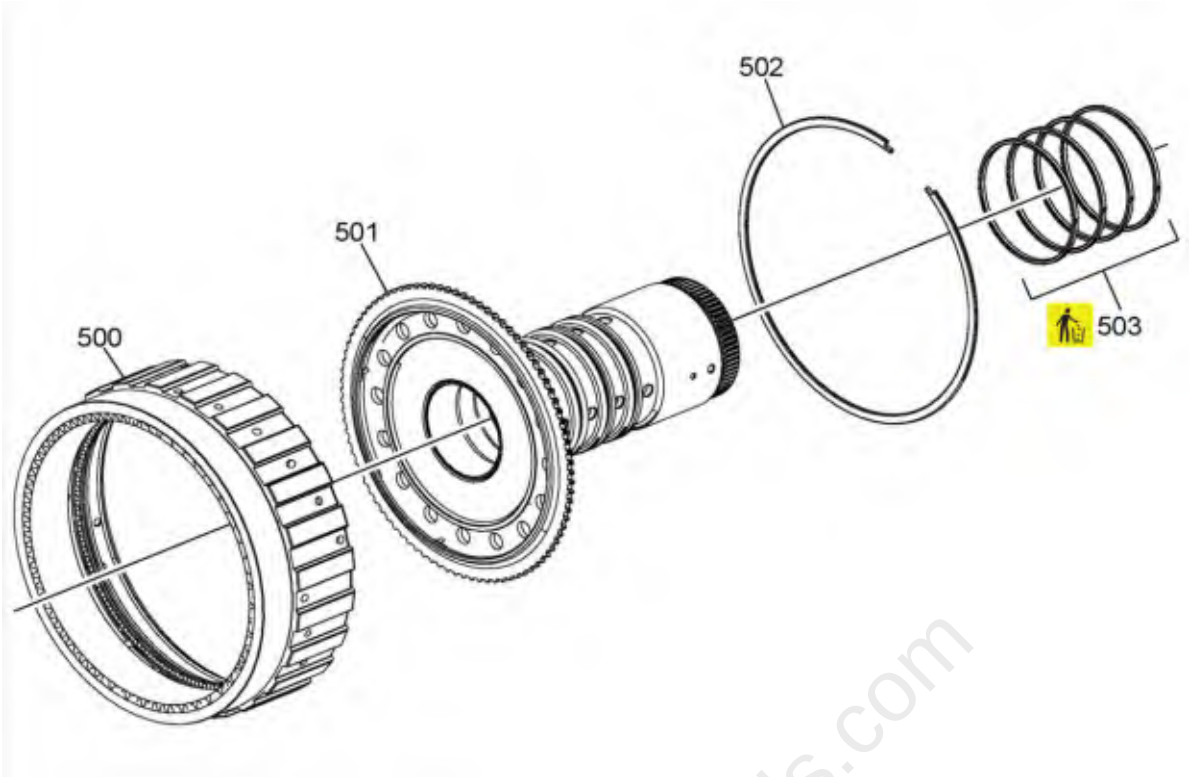



**Fig. 7: Exploded View Of Direct/Overdrive Sun Gear Shaft Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 500 | Input Internal Gear |
| 501 | Direct Overdrive Sun Gear Shaft |
| 502 | Input Internal Gear Retaining Ring |
| 503 | Direct Overdrive Sun Gear Shaft Seal |

### 2-3-4-5-7-9-10 Clutch Assembly

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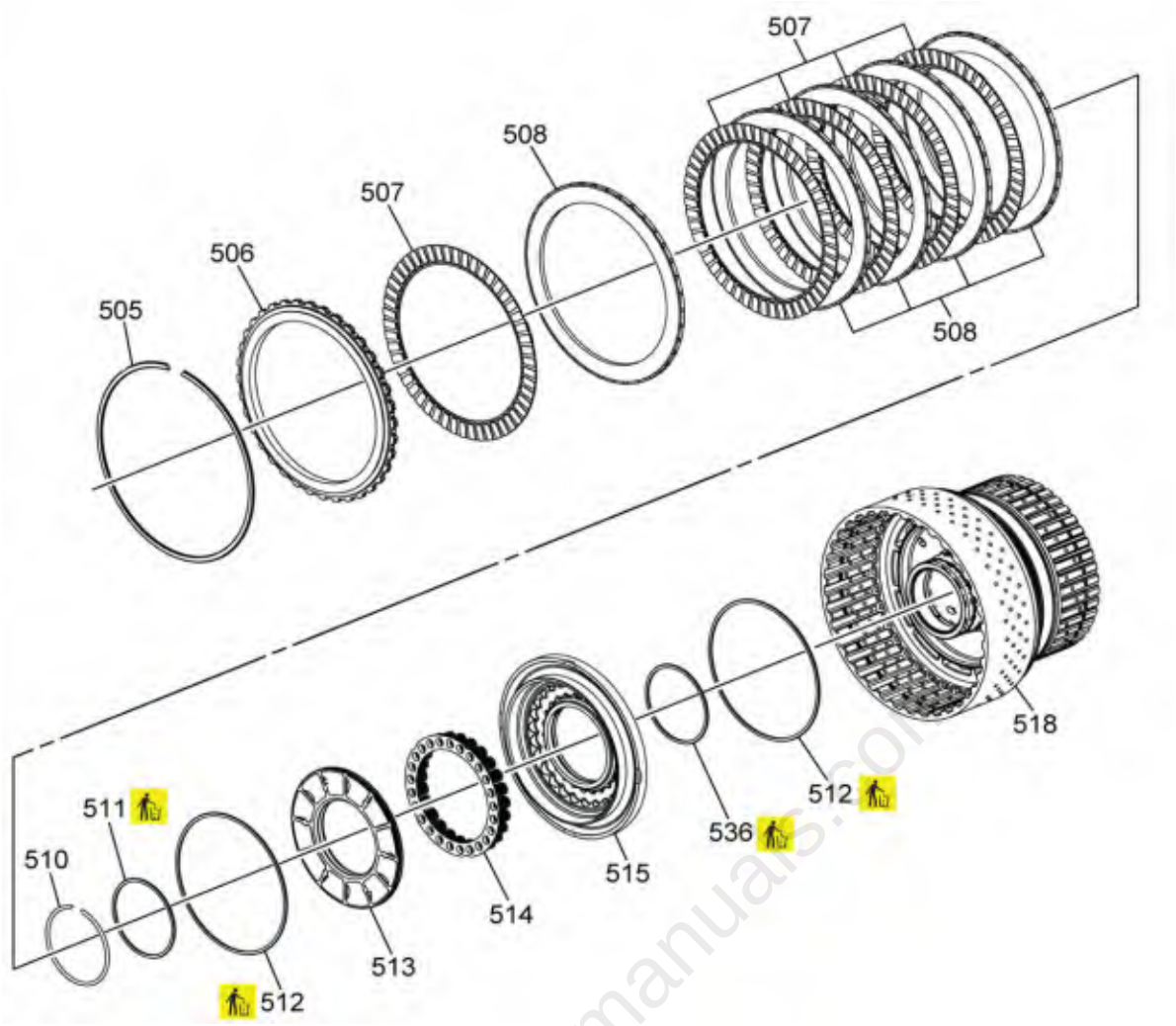



**Fig. 8: Exploded View Of 2-3-4-5-7-9-10 Clutch Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 505 | 2-3-4-5-7-9-10 Clutch Backing Plate Retaining Ring - Selective |
| 506 | 2-3-4-5-7-9-10 Clutch Backing Plate |
| 507 | 2-3-4-5-7-9-10 Fiber Clutch Plate |
| 508 | 2-3-4-5-7-9-10 Steel Clutch Plate |
| 510 | 2-3-4-5-7-9-10 Clutch Piston Dam Retaining Ring |
| 511 | 2-3-4-5-7-9-10 Clutch Piston Dam Seal- Inner |
| 512 | 2-3-4-5-7-9-10 Clutch Piston Seal- Outer |
| 513 | 2-3-4-5-7-9-10 Clutch Piston Dam |
| 514 | 2-3-4-5-7-9-10 Clutch Piston Return Spring |
| 515 | 2-3-4-5-7-9-10 Clutch Piston |
| 518 | Triple Clutch Housing |
| 536 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal - Inner |

**1-2-3-4-6-7-8-10 Reverse and 4-5-6-7-8-9-10 Reverse Clutch Assembly**

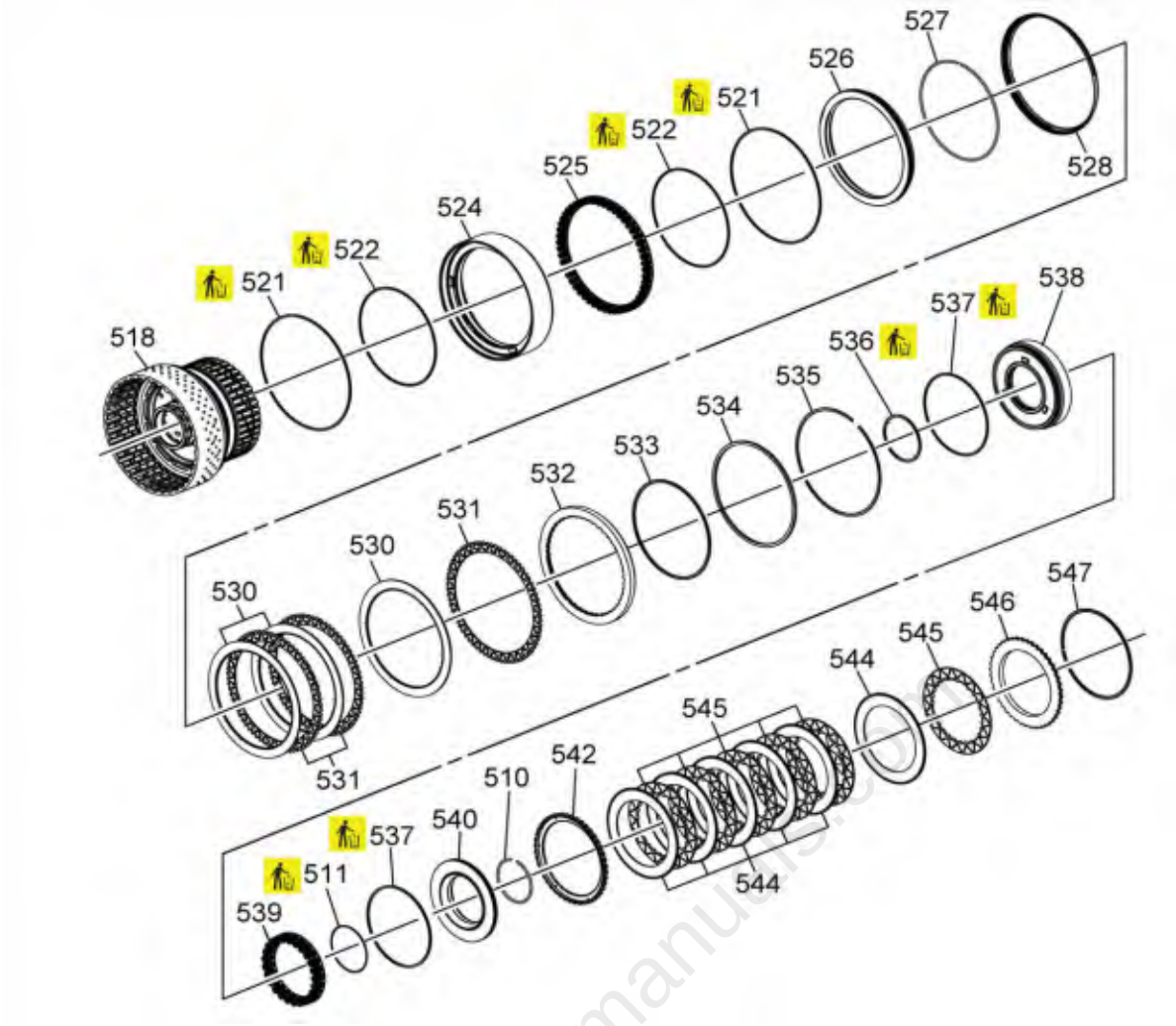



**Fig. 9: Exploded View Of 1-2-3-4-6-7-8-10 Reverse And 4-5-6-7-8-9-10 Reverse Clutch Assembly Components**

**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 510 | 2-3-4-5-7-9-10 Clutch Piston Dam Retaining Ring |
| 511 | 2-3-4-5-7-9-10 Clutch Piston Seal- Inner |
| 518 | Triple Clutch Housing |
| 521 | 4-5-6-7-8-9-10-Reverse Clutch Piston Seal- Outer |
| 522 | 4-5-6-7-8-9-10-Reverse Clutch Piston Seal- Inner |
| 524 | 4-5-6-7-8-9-10-Reverse Clutch Piston |
| 525 | 4-5-6-7-8-9-10-Reverse Clutch Piston Return Spring |
| 526 | 4-5-6-7-8-9-10-Reverse Clutch Piston Dam |
| 527 | 4-5-6-7-8-9-10-Reverse Clutch Piston Dam Retaining Ring |
| 528 | 4-5-6-7-8-9-10-Reverse Clutch Apply Ring |
| 530 | 4-5-6-7-8-9-10-Reverse Steel Clutch Plate |
| 531 | 4-5-6-7-8-9-10-Reverse Fiber Clutch Plate |
| 532 | 4-5-6-7-8-9-10-Reverse Clutch Backing Plate |
| 533 | 4-5-6-7-8-9-10-Reverse Clutch Backing Plate Retaining Ring - Selective |
| 534 | 4-5-6-7-8-9-10-Reverse Clutch Retaining Ring Retainer |
| 535 | 4-5-6-7-8-9-10-Reverse Clutch Backing Plate Retaining Ring Retaining Ring |
| 536 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal- Inner |
| 537 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal- Outer |
| 538 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston |
| 539 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Return Spring |

| Callout | Component Name |
|---|---|
| 540 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Dam |
| 542 | 1-2-3-4-6-7-8-10-Reverse Clutch Apply Ring |
| 544 | 1-2-3-4-6-7-8-10-Reverse Steel Clutch Plate |
| 545 | 1-2-3-4-6-7-8-10-Reverse Fiber Clutch Plate |
| 546 | 1-2-3-4-6-7-8-10-Reverse Clutch Backing Plate |
| 547 | 1-2-3-4-6-7-8-10-Reverse Clutch Backing Plate Retaining Ring - Selective |

### 1-3-5-6-7-8-9 Clutch Assembly

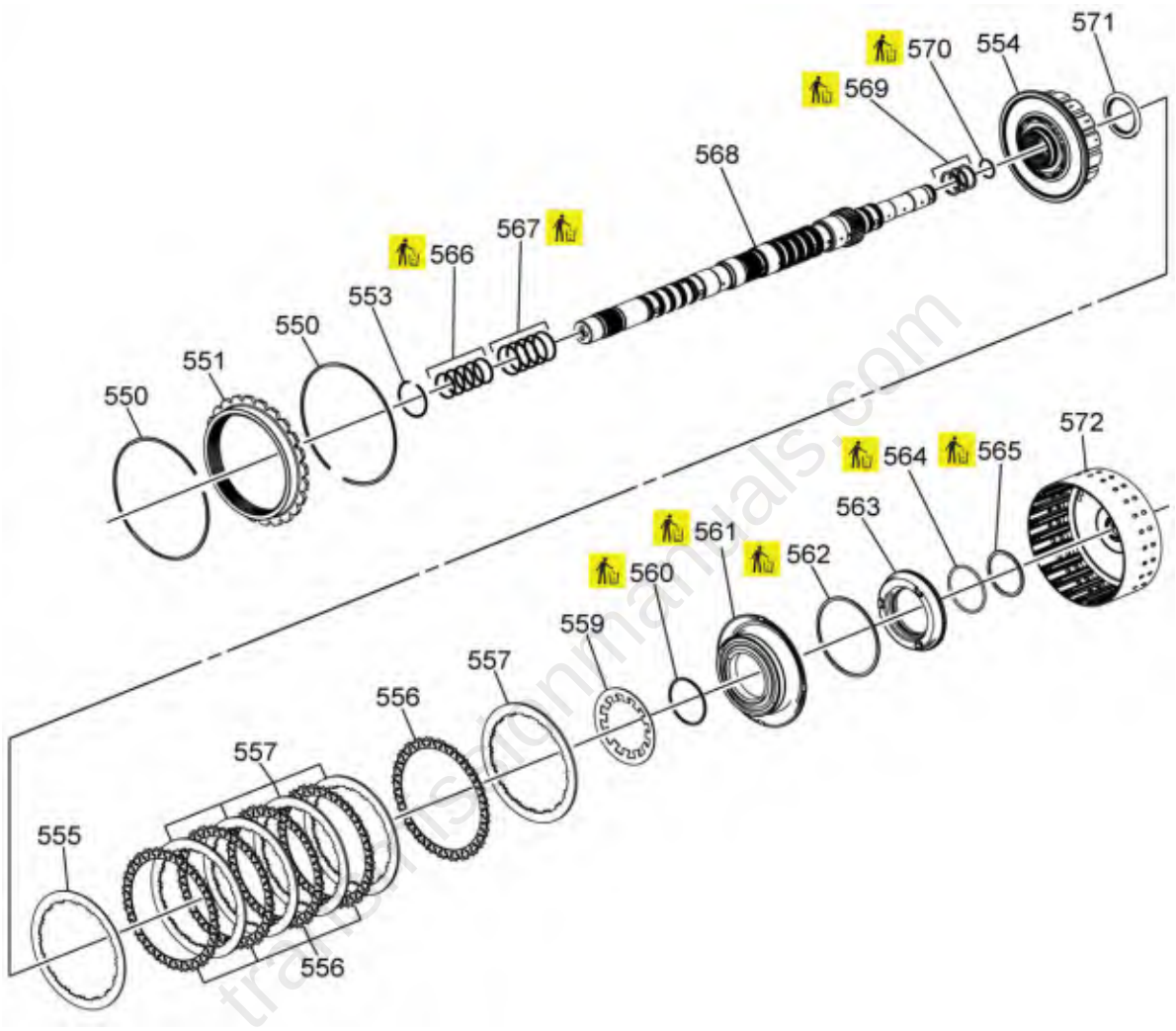



**Fig. 10: Exploded View Of 1-3-5-6-7-8-9 Clutch Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 550 | Direct Overdrive Internal Gear Retaining Ring |
| 551 | Direct Overdrive Internal Gear |
| 553 | Turbine Shaft Retainer Ring |
| 554 | 1-3-5-6-7-8-9 Clutch Hub |
| 555 | 1-3-5-6-7-8-9 Clutch Backing Plate - Selective |
| 556 | 1-3-5-6-7-8-9 Fiber Clutch Plate |
| 557 | 1-3-5-6-7-8-9 Steel Clutch Plate |
| 559 | 1-3-5-6-7-8-9 Clutch Piston Return Spring |
| 560 | 1-3-5-6-7-8-9 Clutch Piston Seal - Inner |
| 561 | 1-3-5-6-7-8-9 Clutch Piston |
| 562 | 1-3-5-6-7-8-9 Clutch Piston Dam Seal |

| Callout | Component Name |
|---|---|
| 563 | 1-3-5-6-7-8-9 Clutch Piston Dam |
| 564 | 1-3-5-6-7-8-9 Clutch Piston Dam Seal |
| 565 | 1-3-5-6-7-8-9 Clutch Piston Dam Retaining Ring |
| 566 | Turbine Shaft Seal |
| 567 | Turbine Shaft Seal |
| 568 | Turbine Shaft |
| 569 | Turbine Shaft Seal |
| 570 | Turbine Shaft Seal |
| 571 | Output Sun Gear Thrust Bearing Assembly |
| 572 | Output Sun Gear |

**Park System Components**

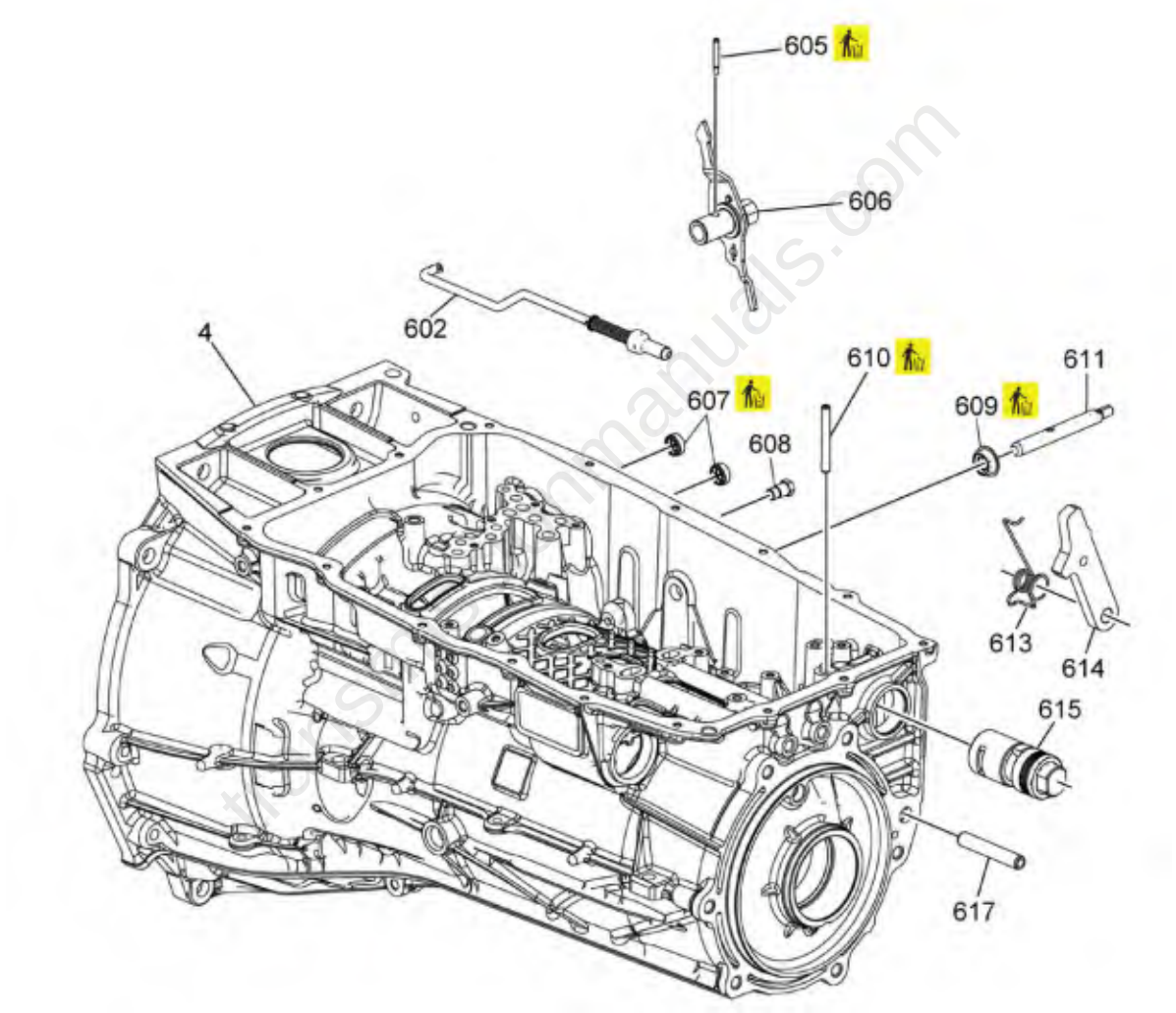



**Fig. 11: Exploded View Of Park System Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 4 | Automatic Transmission Case |
| 602 | Park Pawl Actuator |
| 605 | Manual Shift Shaft Pin |
| 606 | Park Release Lever |
| 607 | Transmission Fluid Cooler Pipe Fitting Seal |
| 608 | Automatic Transmission Fluid Pressure Test Hole Plug |
| 609 | Manual Shift Shaft Seal |

| Callout | Component Name |
|---|---|
| 610 | Park Pawl Actuator Guide Pin |
| 611 | Manual Shift Shaft |
| 613 | Park Pawl Spring |
| 614 | Park Pawl |
| 615 | Park Pawl Actuator Guide |
| 617 | Park Pawl Shaft |

## DISASSEMBLED VIEWS (AWD)

### Case and Associated Parts (1 of 3)

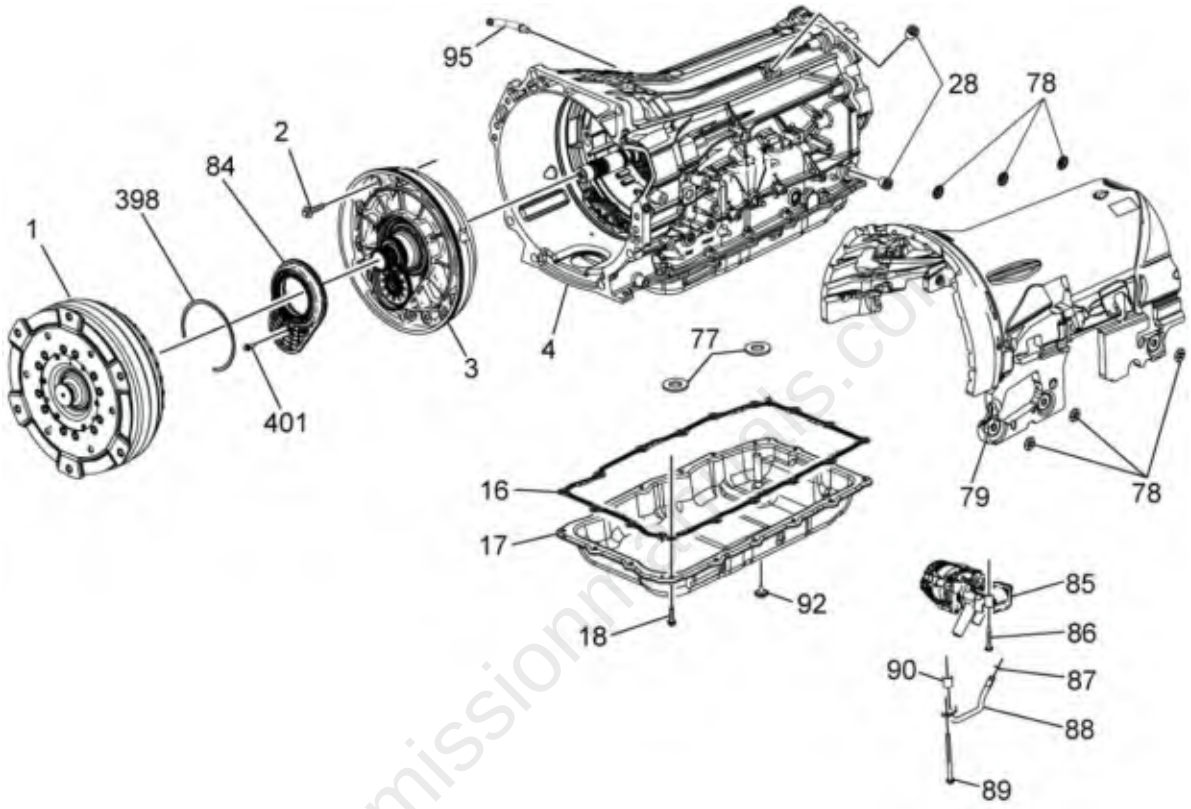



**Fig. 12: Exploded View Of Case And Associated Parts - AWD (1 of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 1 | Torque Converter |
| 2 | Input Shaft Support Bolt |
| 3 | Automatic Transmission Case Cover |
| 4 | Automatic Transmission Case |
| 16 | Automatic Transmission Fluid Pan Gasket |
| 17 | Automatic Transmission Fluid Pan |
| 18 | Automatic Transmission Fluid Pan Bolt |
| 28 | Automatic Transmission Case Plug |
| 77 | Transmission Magnet |
| 78 | Transmission Housing Sound Insulat or Retaining Clip |
| 79 | Transmission Housing Sound Insulator |
| 84 | Automatic Transmission Case Front Cover |
| 85 | Automatic Transmission Auxiliary Fluid Pump |
| 86 | Automatic Transmission Auxiliary Fluid Pump Bolt |
| 87 | Automatic Transmission Auxiliary Fluid Pump Outlet Pipe Seal |

| Callout | Component Name |
|---|---|
| 88 | Automatic Transmission Auxiliary Fluid Pump Outlet Pipe |
| 89 | Control Valve Upper Body Bolt |
| 90 | Automatic Transmission Auxiliary Fluid Pump Seal |
| 92 | Transmission Oil Level Check Plug |
| 95 | Automatic Transmission Vent Pipe |
| 398 | Automatic Transmission Case Cover Retaining Ring |
| 401 | Automatic Transmission Case Front Cover Bolt |

**Case and Associated Parts (2 of 3)**

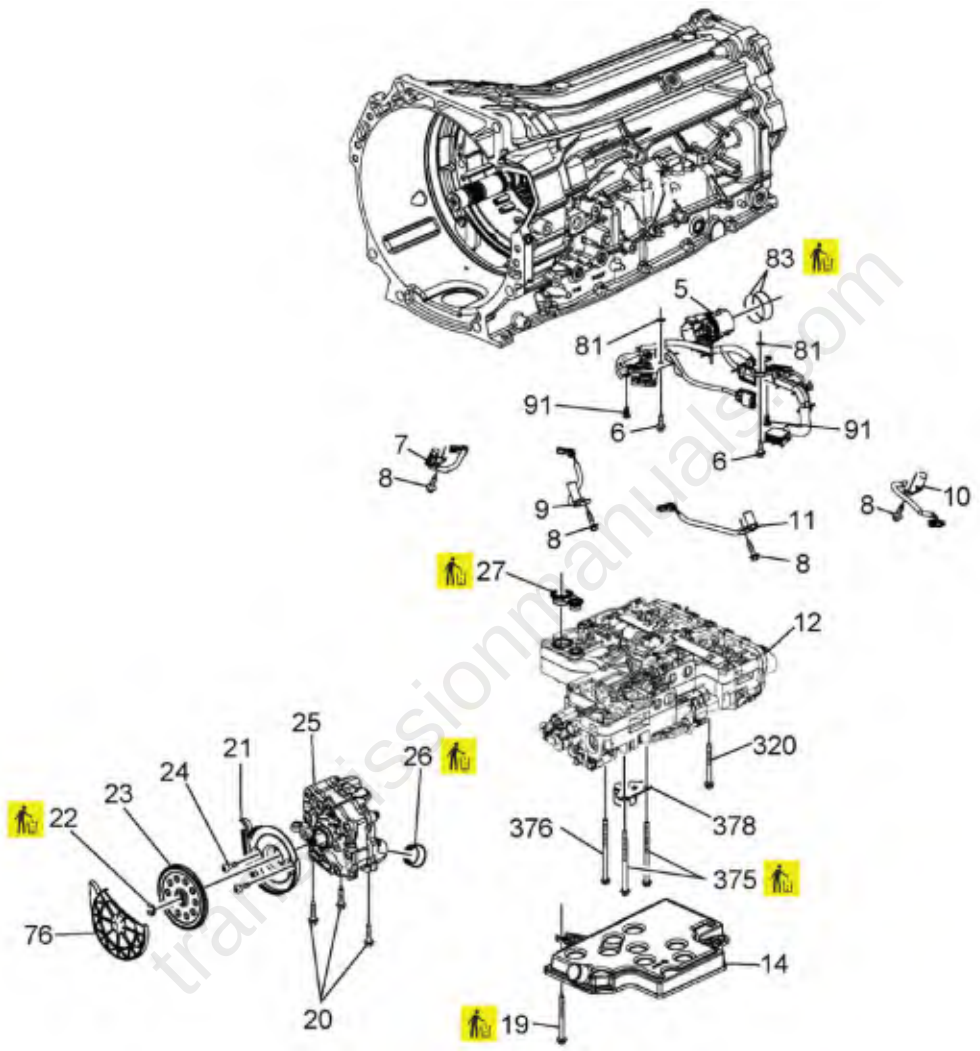



**Fig. 13: Exploded View Of Case And Associated Parts - AWD (2 of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 5 | Automatic Transmission Wiring Harness - Pass-Through |
| 6 | Automatic Transmission Control Wiring Harness Clip Bracket Bolt |
| 7 | Automatic Transmission Turbine Speed Sensor |
| 8 | Automatic Transmission Speed Sensor Bolt |
| 9 | Automatic Transmission Intermediate Speed Sensor - A |
| 10 | Automatic Transmission Output Speed Sensor |
| 11 | Automatic Transmission Intermediate Speed Sensor - B |
| 12 | Control Valve |
| 14 | Automatic Transmission Fluid Filter |
| 19 | Automatic Transmission Fluid Filter Bolt |

| Callout | Component Name |
|---|---|
| 20 | Automatic Transmission Fluid Pump Bolt |
| 21 | Automatic Transmission Fluid Pump Driven Gear Baffle - Base |
| 22 | Automatic Transmission Fluid Pump Drive Shaft Retaining Ring |
| 23 | Automatic Transmission Fluid Pump Driven Gear |
| 24 | Automatic Transmission Fluid Pump Cover Bolt |
| 25 | Automatic Transmission Fluid Pump |
| 26 | Automatic Transmission Fluid Pump Seal - Pump |
| 27 | Automatic Transmission Fluid Pump Seal - Valve Body |
| 76 | Automatic Transmission Fluid Pump Driven Gear Baffle - Shroud |
| 81 | Automatic Transmission Control Wiring Harness Retainer - Push Nut |
| 83 | Wiring Harness Connector Seal - O-Ring |
| 91 | Automatic Transmission Control Wiring Harness Retainer - Push Type |
| 320 | Control Valve Solenoid Body Bolt |
| 375 | Control Valve Solenoid Body Bolt |
| 376 | Control Valve Body Bolt |
| 378 | Park Inhibitor Solenoid |

**Case and Associated Parts (3 of 3)**

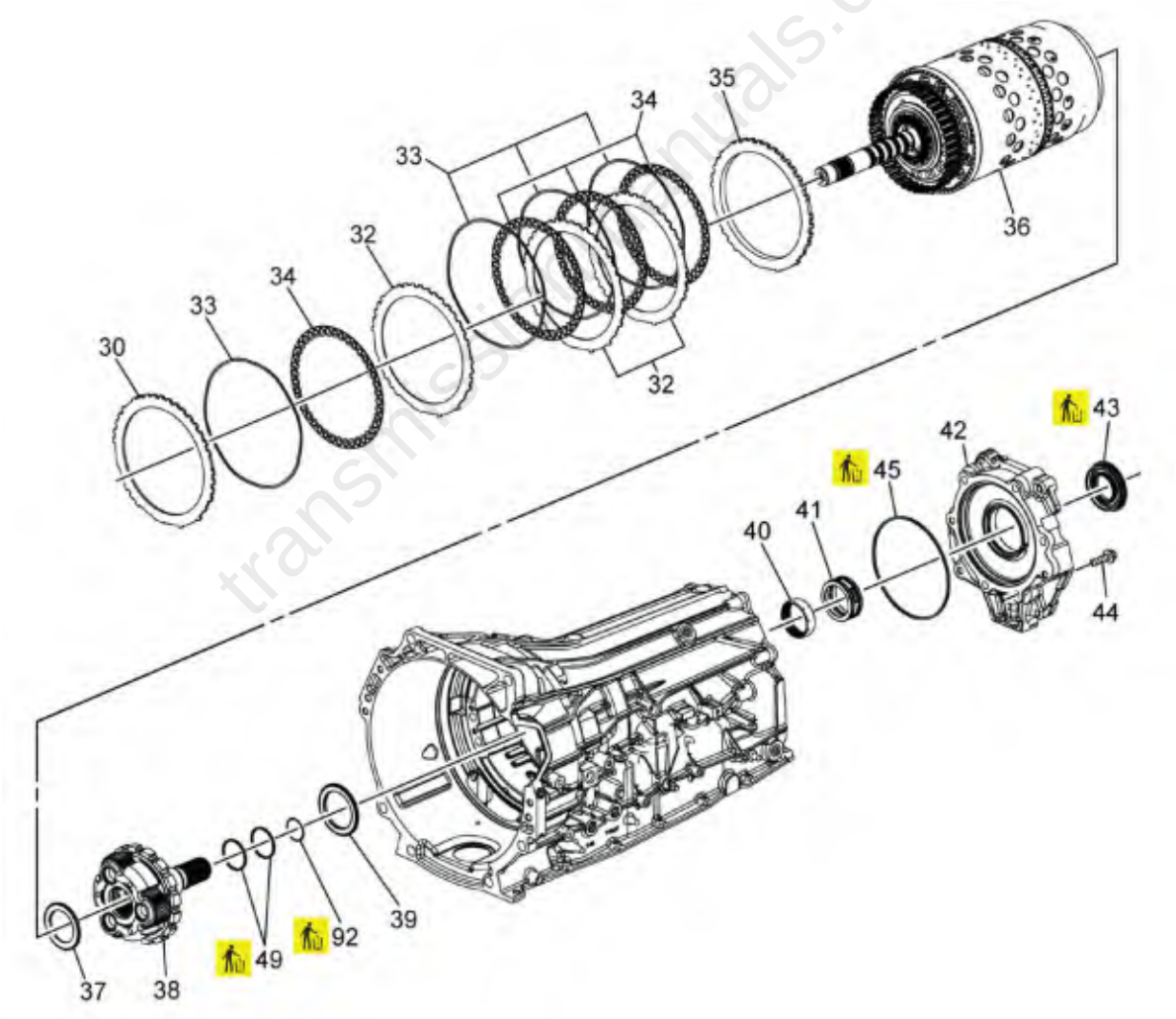



**Fig. 14: Exploded View Of Case And Associated Parts - AWD (3 of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 30 | 1-2-3-4-5-6-Reverse Clutch Apply Plate - Selective |

| Callout | Component Name |
|---|---|
| 32 | 1-2-3-4-5-6-Reverse Clutch Steel Plate |
| 33 | 1-2-3-4-5-6-Reverse Clutch Piston Return Spring |
| 34 | 1-2-3-4-5-6-Reverse Clutch Friction Plate |
| 35 | 1-2-3-4-5-6-Reverse Clutch Backing Plate |
| 36 | Rotating Clutch, Gear, and Shaft Shell |
| 37 | Output Carrier Thrust Bearing |
| 38 | Output Carrier |
| 39 | Output Carrier Thrust Bearing |
| 40 | Output Shaft Bearing |
| 41 | Output Shaft Sleeve |
| 42 | Automatic Transmission Case Extension |
| 43 | Propeller Shaft Transmission Flange Fluid Seal |
| 44 | Automatic Transmission Case Extension Bolt |
| 45 | Automatic Transmission Case Extension Seal |
| 49 | Output Shaft Seal [2x] |
| 92 | Output Shaft Seal |

**Clutch Assemblies and Associated Parts**

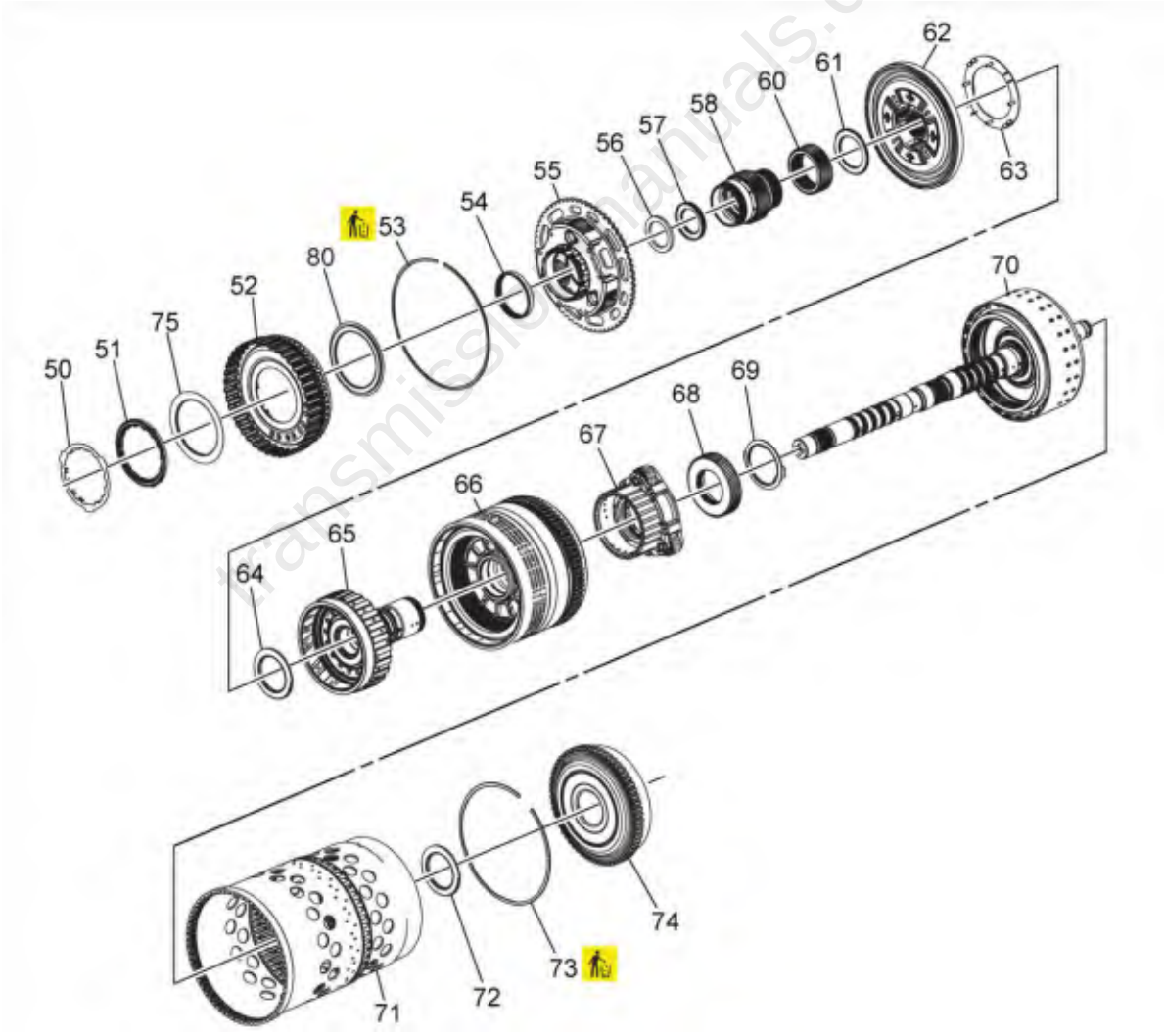



**Fig. 15: Exploded View Of Clutch Assemblies And Associated Parts**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 50 | Reaction Internal Gear Spacer Retainer |

| Callout | Component Name |
|---|---|
| 51 | Reaction Internal Gear Spacer |
| 52 | Reaction Internal Gear |
| 53 | Reaction Carrier Hub Retaining Ring |
| 54 | Reaction Carrier Hub Bearing |
| 55 | Reaction Carrier |
| 56 | Transmission Case Washer |
| 57 | Reaction Sun Gear Thrust Bearing |
| 58 | Reaction Sun Gear |
| 59 | Automatic Transmission Input Shaft Speed Sensor Reluctor Wheel |
| 60 | Input Sun Gear |
| 61 | Input Sun Gear Thrust Bearing |
| 62 | Input Carrier |
| 63 | Input Carrier Lube Dam |
| 64 | Input Sun Gear Thrust Bearing |
| 65 | Direct Overdrive Sun Gear Shaft |
| 66 | Triple Clutch Housing |
| 67 | Direct Overdrive Carrier |
| 68 | Direct Overdrive Sun Gear |
| 69 | Direct Overdrive Sun Gear Thrust Bearing |
| 70 | Main Shaft |
| 71 | Output Carrier Internal Gear Transfer Shell |
| 72 | Output Carrier Thrust Bearing |
| 73 | Output Carrier Internal Gear Retaining Ring |
| 74 | Output Carrier Internal Gear |
| 75 | Reaction Internal Gear Thrust Bearing |
| 80 | Reaction Internal Gear Thrust Bearing |

**Control Valve Assembly**

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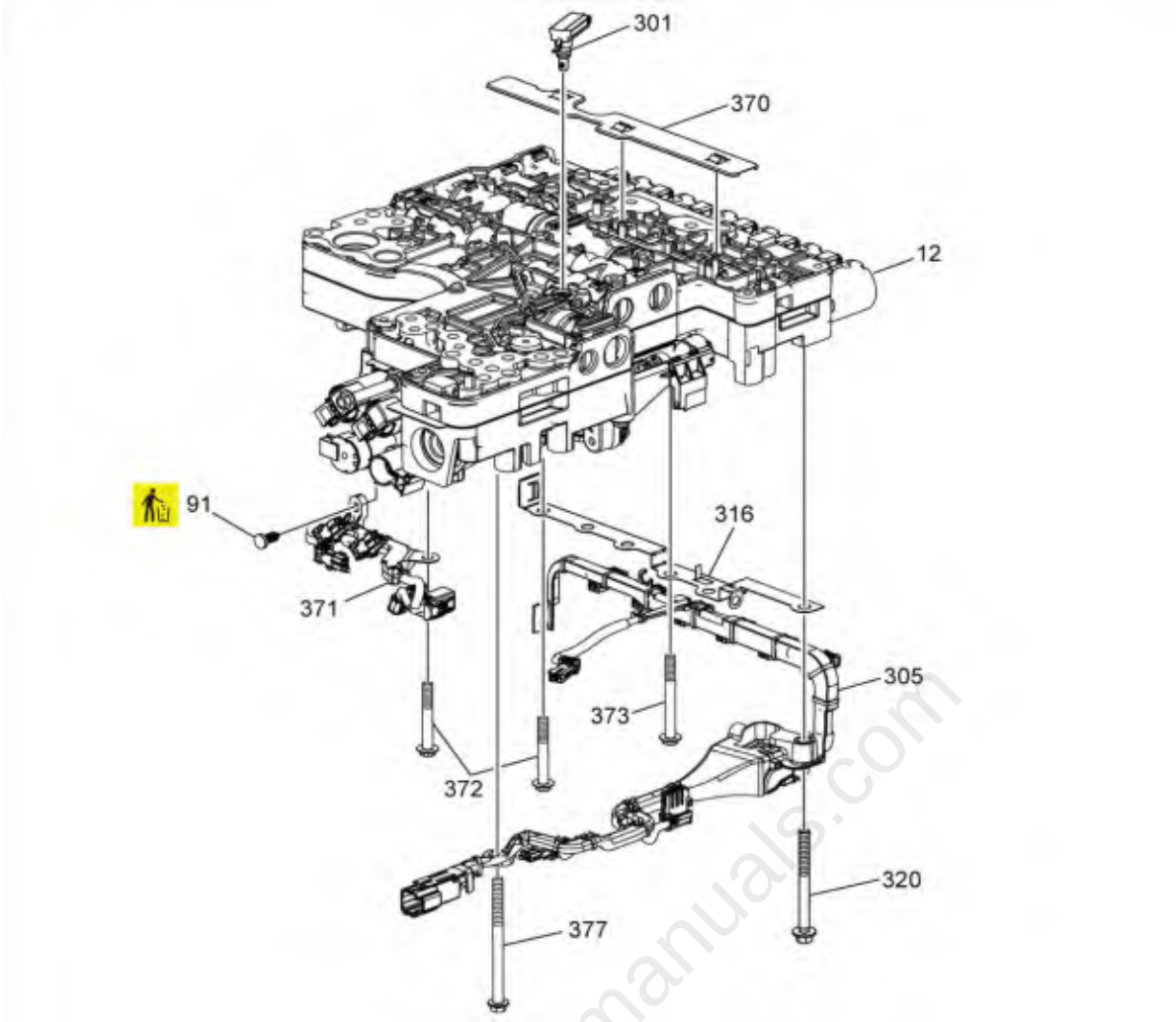



**Fig. 16: Exploded View Of Control (with Body and Valve) Valve Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 12 | Control Valve |
| 91 | Automatic Transmission Control Wiring Harness Retainer |
| 301 | Automatic Transmission Fluid Temperature Sensor |
| 305 | Automatic Transmission Wiring Harness - Main/Solenoid |
| 316 | Control Valve Body Fluid Passage Cover |
| 320 | Control Valve Solenoid Body Bolt |
| 370 | Control Valve Body Fluid Passage Cover |
| 371 | Automatic Transmission Wiring Harness - Jumper |
| 372 | Control Valve Upper Body Bolt |
| 373 | Control Valve Upper Body Bolt |
| 377 | Control Valve Upper Body Bolt |

**Stator Shaft Support Assembly**

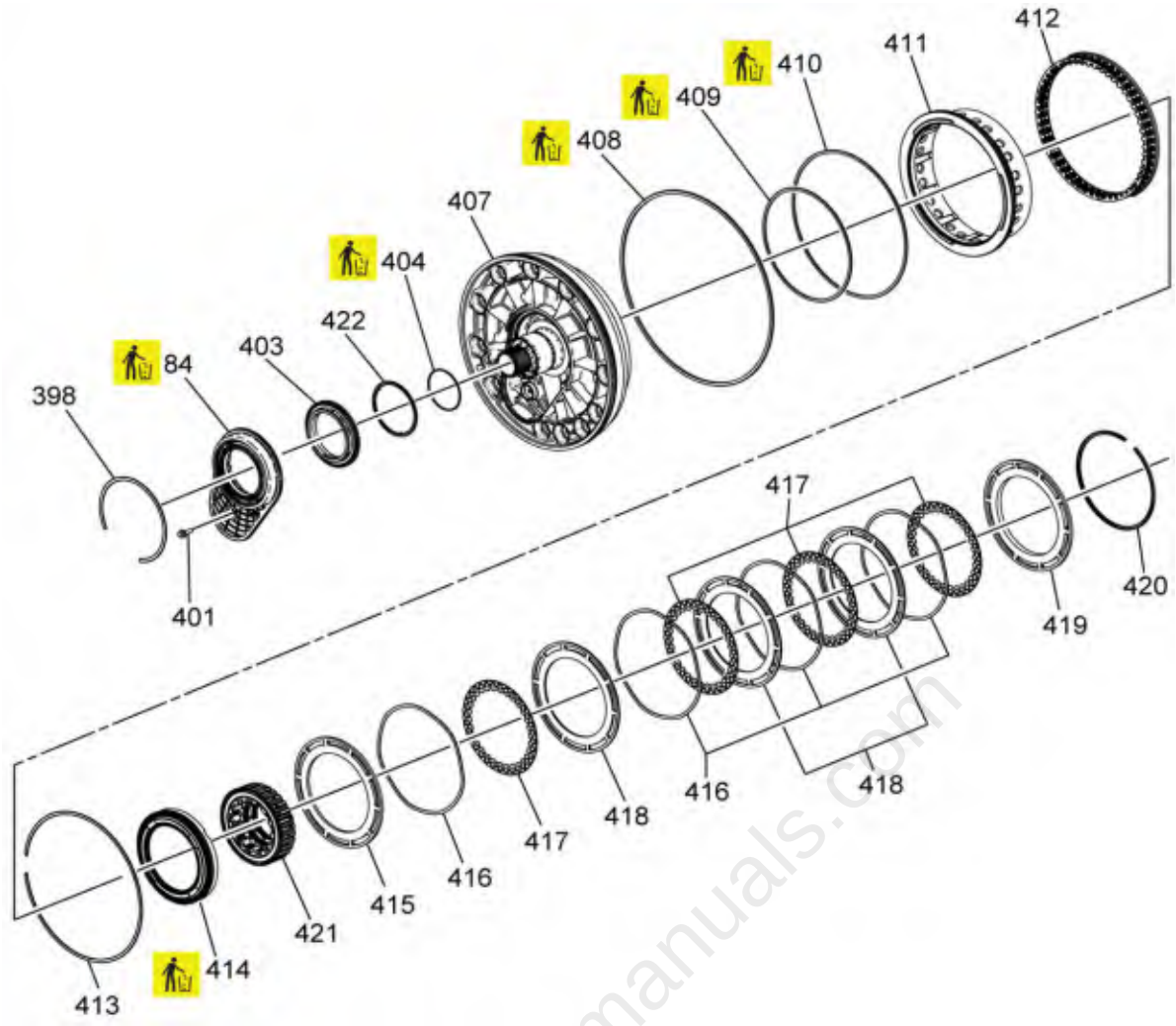



**Fig. 17: Exploded View Of Stator Shaft Support Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 84 | Automatic Transmission Case Front Cover |
| 398 | Automatic Transmission Case Cover Retaining Ring |
| 401 | Automatic Transmission Case Front Cover Bolt |
| 403 | Automatic Transmission Fluid Pump Drive Gear |
| 404 | Torque Converter Fluid Seal |
| 407 | Stator Shaft Support |
| 408 | Stator Shaft Support Seal |
| 409 | 1-2-3-4-5-6-Reverse Clutch Piston Seal- Inner |
| 410 | 1-2-3-4-5-6-Reverse Clutch Piston Seal- Outer |
| 411 | 1-2-3-4-5-6-Reverse Clutch Piston |
| 412 | 1-2-3-4-5-6-Reverse Clutch Piston Return Spring |
| 413 | 1-2-3-4-5-6 Clutch Spring Retaining Ring |
| 414 | 1-2-8-9-10-Reverse Clutch Piston |
| 415 | 1-2-8-9-10-Reverse Clutch Apply Plate |
| 416 | 1-2-8-9-10-Reverse Clutch Piston Return Spring |
| 417 | 1-2-8-9-10-Reverse Fiber Clutch Plate |
| 418 | 1-2-8-9-10-Reverse Steel Clutch Plate |
| 419 | 1-2-8-9-10-Reverse Clutch Backing Plate |
| 420 | 1-2-8-9-10-Reverse Clutch Backing Plate Retaining Ring |
| 421 | Low Clutch Roller |
| 422 | Center Support Thrust Washer |

### Direct/Overdrive Sun Gear Shaft Assembly

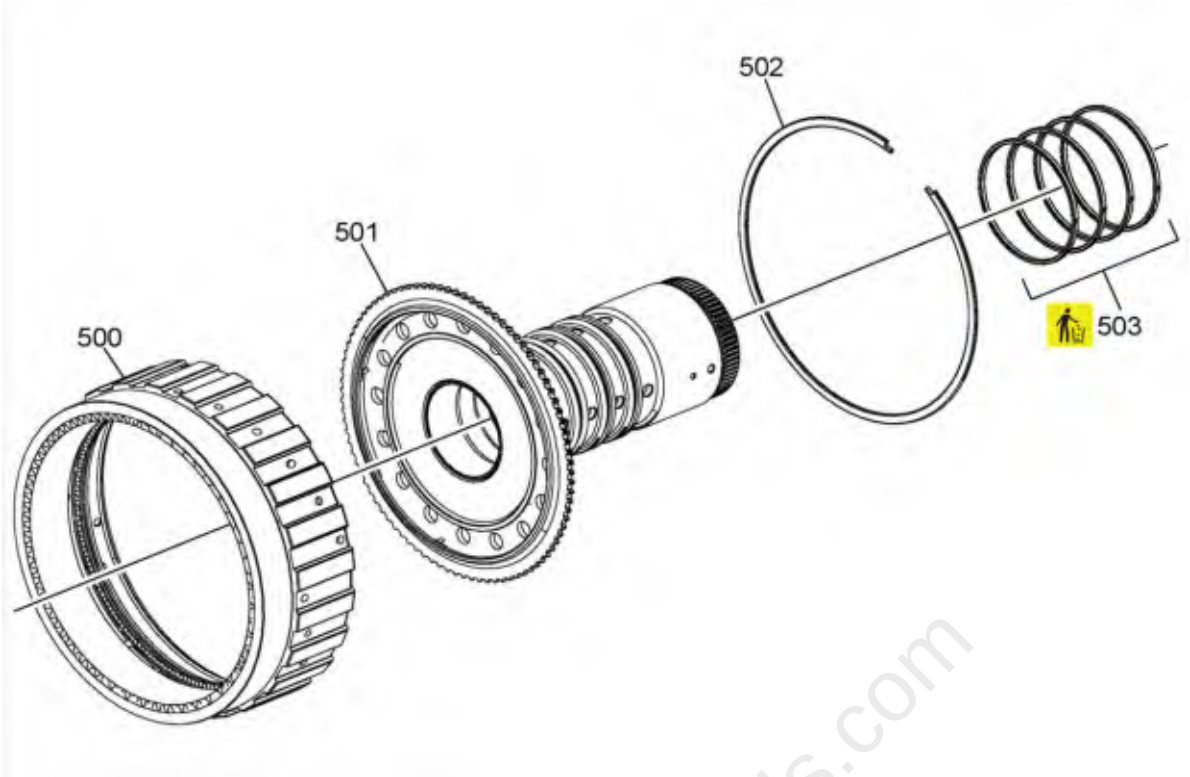



**Fig. 18: Exploded View Of Direct And Overdrive Sun Gear Shaft Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 500 | Input Internal Gear |
| 501 | Direct Overdrive Sun Gear Shaft |
| 502 | Input Internal Gear Retaining Ring |
| 503 | Direct Overdrive Sun Gear Shaft Seal |

### 2-3-4-5-7-9-10 Clutch Assembly

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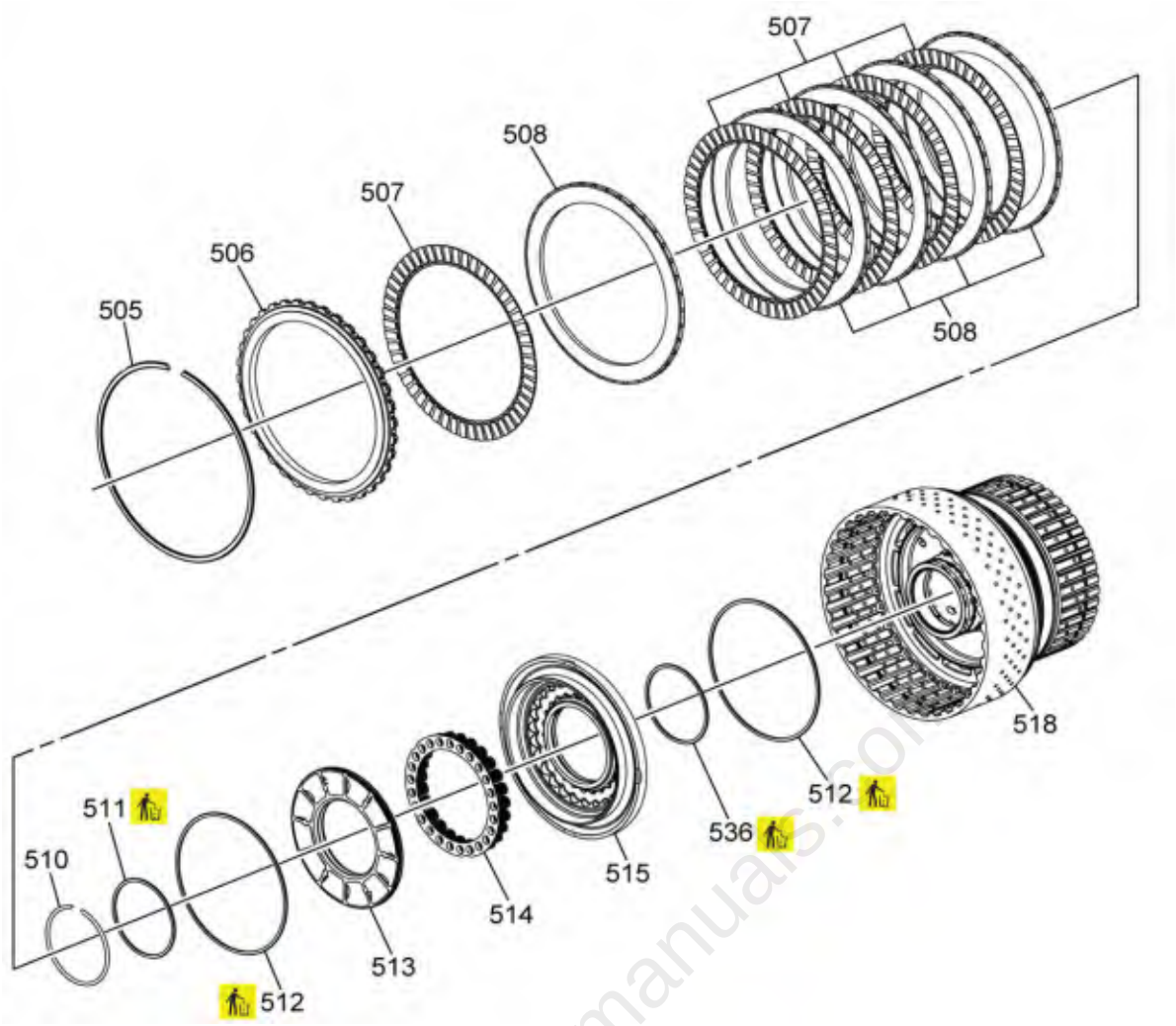



**Fig. 19: Exploded View Of 2-3-4-5-7-9-10 Clutch Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 505 | 2-3-4-5-7-9-10 Clutch Backing Plate Retaining Ring - Selective |
| 506 | 2-3-4-5-7-9-10 Clutch Backing Plate |
| 507 | 2-3-4-5-7-9-10 Fiber Clutch Plate |
| 508 | 2-3-4-5-7-9-10 Steel Clutch Plate |
| 510 | 2-3-4-5-7-9-10 Clutch Piston Dam Retaining Ring |
| 511 | 2-3-4-5-7-9-10 Clutch Piston Dam Seal- Inner |
| 512 | 2-3-4-5-7-9-10 Clutch Piston Seal- Outer |
| 513 | 2-3-4-5-7-9-10 Clutch Piston Dam |
| 514 | 2-3-4-5-7-9-10 Clutch Piston Return Spring |
| 515 | 2-3-4-5-7-9-10 Clutch Piston |
| 518 | Triple Clutch Housing |
| 536 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal - Inner |

**1-2-3-4-6-7-8-10 Reverse and 4-5-6-7-8-9-10 Reverse Clutch Assembly**

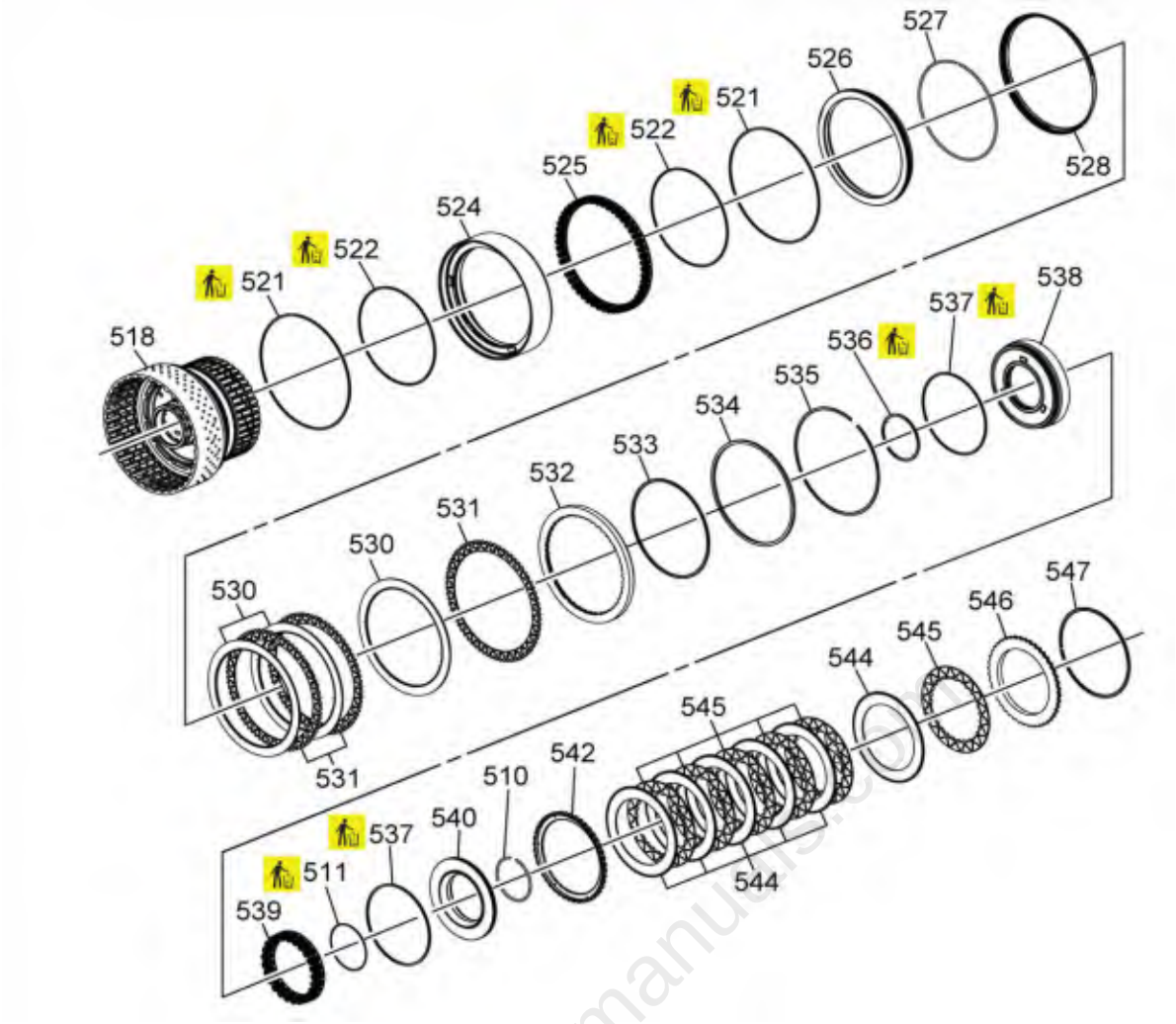



**Fig. 20: Exploded View Of 1-2-3-4-6-7-8-10 Reverse And 4-5-6-7-8-9-10 Reverse Clutch Assembly Components**

**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 510 | 2-3-4-5-7-9-10 Clutch Piston Dam Retaining Ring |
| 511 | 2-3-4-5-7-9-10 Clutch Piston Seal- Inner |
| 518 | Triple Clutch Housing |
| 521 | 4-5-6-7-8-9-10-Reverse Clutch Piston Seal- Outer |
| 522 | 4-5-6-7-8-9-10-Reverse Clutch Piston Seal- Inner |
| 524 | 4-5-6-7-8-9-10-Reverse Clutch Piston |
| 525 | 4-5-6-7-8-9-10-Reverse Clutch Piston Return Spring |
| 526 | 4-5-6-7-8-9-10-Reverse Clutch Piston Dam |
| 527 | 4-5-6-7-8-9-10-Reverse Clutch Piston Dam Retaining Ring |
| 528 | 4-5-6-7-8-9-10-Reverse Clutch Apply Ring |
| 530 | 4-5-6-7-8-9-10-Reverse Steel Clutch Plate |
| 531 | 4-5-6-7-8-9-10-Reverse Fiber Clutch Plate |
| 532 | 4-5-6-7-8-9-10-Reverse Clutch Backing Plate |
| 533 | 4-5-6-7-8-9-10-Reverse Clutch Backing Plate Retaining Ring - Selective |
| 534 | 4-5-6-7-8-9-10-Reverse Clutch Retaining Ring Retainer |
| 535 | 4-5-6-7-8-9-10-Reverse Clutch Backing Plate Retaining Ring Retaining Ring |
| 536 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal- Inner |
| 537 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal- Outer |
| 538 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston |
| 539 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Return Spring |

| Callout | Component Name |
|---|---|
| 540 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Dam |
| 542 | 1-2-3-4-6-7-8-10-Reverse Clutch Apply Ring |
| 544 | 1-2-3-4-6-7-8-10-Reverse Steel Clutch Plate |
| 545 | 1-2-3-4-6-7-8-10-Reverse Fiber Clutch Plate |
| 546 | 1-2-3-4-6-7-8-10-Reverse Clutch Backing Plate |
| 547 | 1-2-3-4-6-7-8-10-Reverse Clutch Backing Plate Retaining Ring - Selective |

### 1-3-5-6-7-8-9 Clutch Assembly

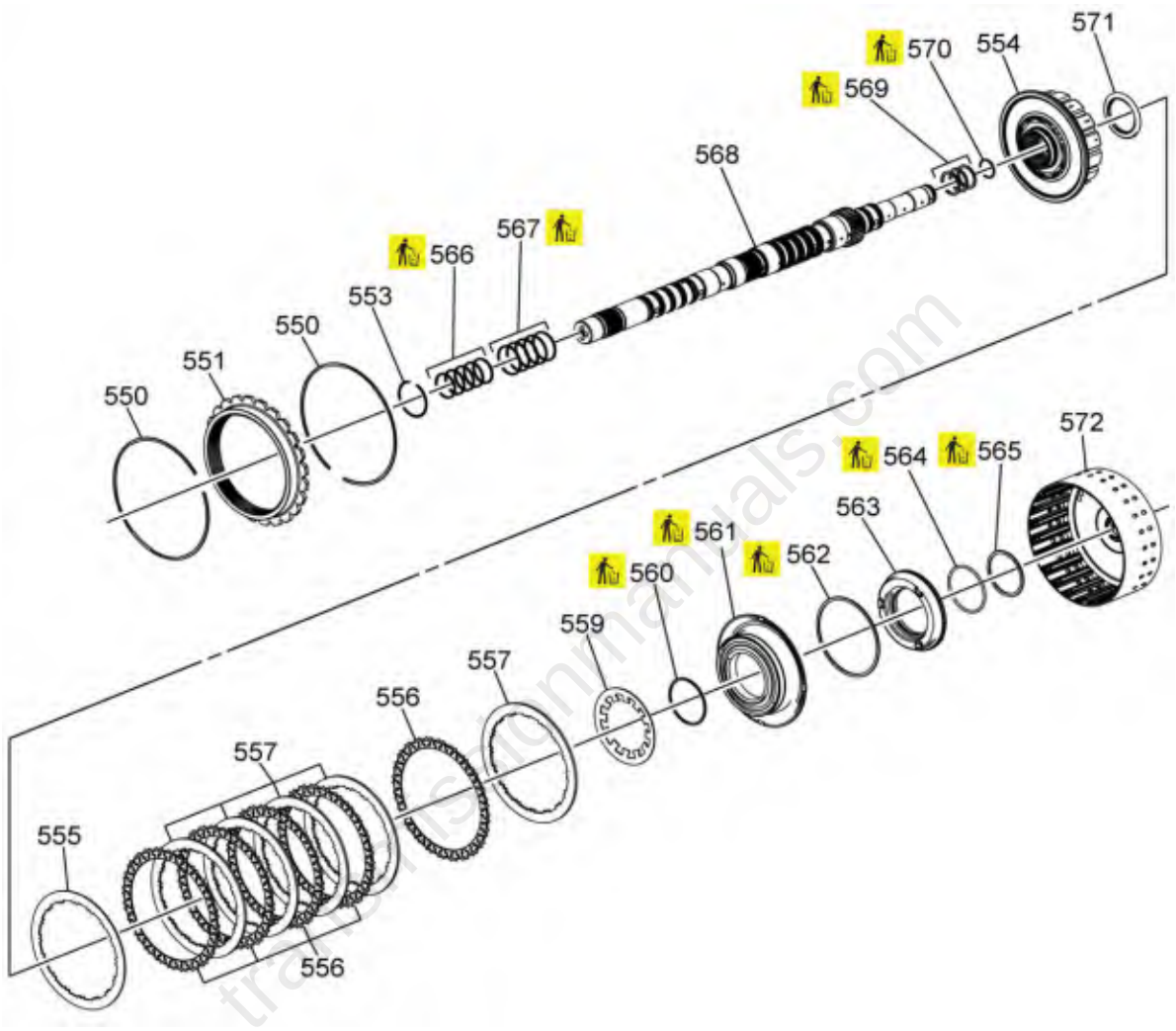



**Fig. 21: Exploded View Of 1-3-5-6-7-8-9 Clutch Assembly Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 550 | Direct Overdrive Internal Gear Retaining Ring |
| 551 | Direct Overdrive Internal Gear |
| 553 | Turbine Shaft Retainer Ring |
| 554 | 1-3-5-6-7-8-9 Clutch Hub |
| 555 | 1-3-5-6-7-8-9 Clutch Backing Plate - Selective |
| 556 | 1-3-5-6-7-8-9 Fiber Clutch Plate |
| 557 | 1-3-5-6-7-8-9 Steel Clutch Plate |
| 559 | 1-3-5-6-7-8-9 Clutch Piston Return Spring |
| 560 | 1-3-5-6-7-8-9 Clutch Piston Seal - Inner |
| 561 | 1-3-5-6-7-8-9 Clutch Piston |
| 562 | 1-3-5-6-7-8-9 Clutch Piston Dam Seal |

| Callout | Component Name |
|---|---|
| 563 | 1-3-5-6-7-8-9 Clutch Piston Dam |
| 564 | 1-3-5-6-7-8-9 Clutch Piston Dam Seal |
| 565 | 1-3-5-6-7-8-9 Clutch Piston Dam Retaining Ring |
| 566 | Turbine Shaft Seal |
| 567 | Turbine Shaft Seal |
| 568 | Turbine Shaft |
| 569 | Turbine Shaft Seal |
| 570 | Turbine Shaft Seal |
| 571 | Output Sun Gear Thrust Bearing Assembly |
| 572 | Output Sun Gear |

**Park System Components**

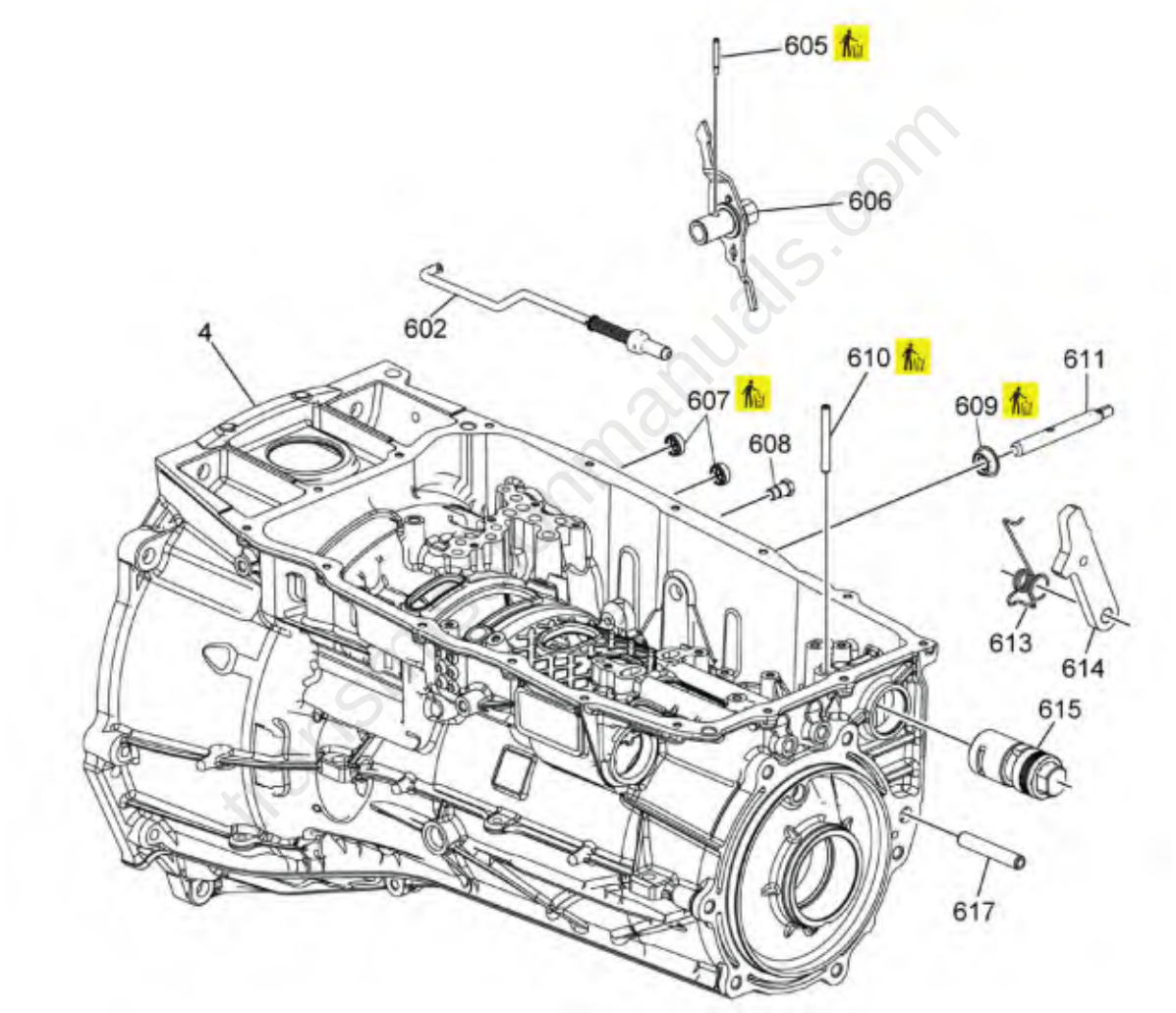



**Fig. 22: Exploded View Of Park System Components**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 4 | Automatic Transmission Case |
| 602 | Park Pawl Actuator |
| 605 | Manual Shift Shaft Pin |
| 606 | Park Release Lever |
| 607 | Transmission Fluid Cooler Pipe Fitting Seal |
| 608 | Automatic Transmission Fluid Pressure Test Hole Plug |
| 609 | Manual Shift Shaft Seal |

| Callout | Component Name |
|---|---|
| 610 | Park Pawl Actuator Guide Pin |
| 611 | Manual Shift Shaft |
| 613 | Park Pawl Spring |
| 614 | Park Pawl |
| 615 | Park Pawl Actuator Guide |
| 617 | Park Pawl Shaft |

## COMPONENT LOCATION

### Component Location

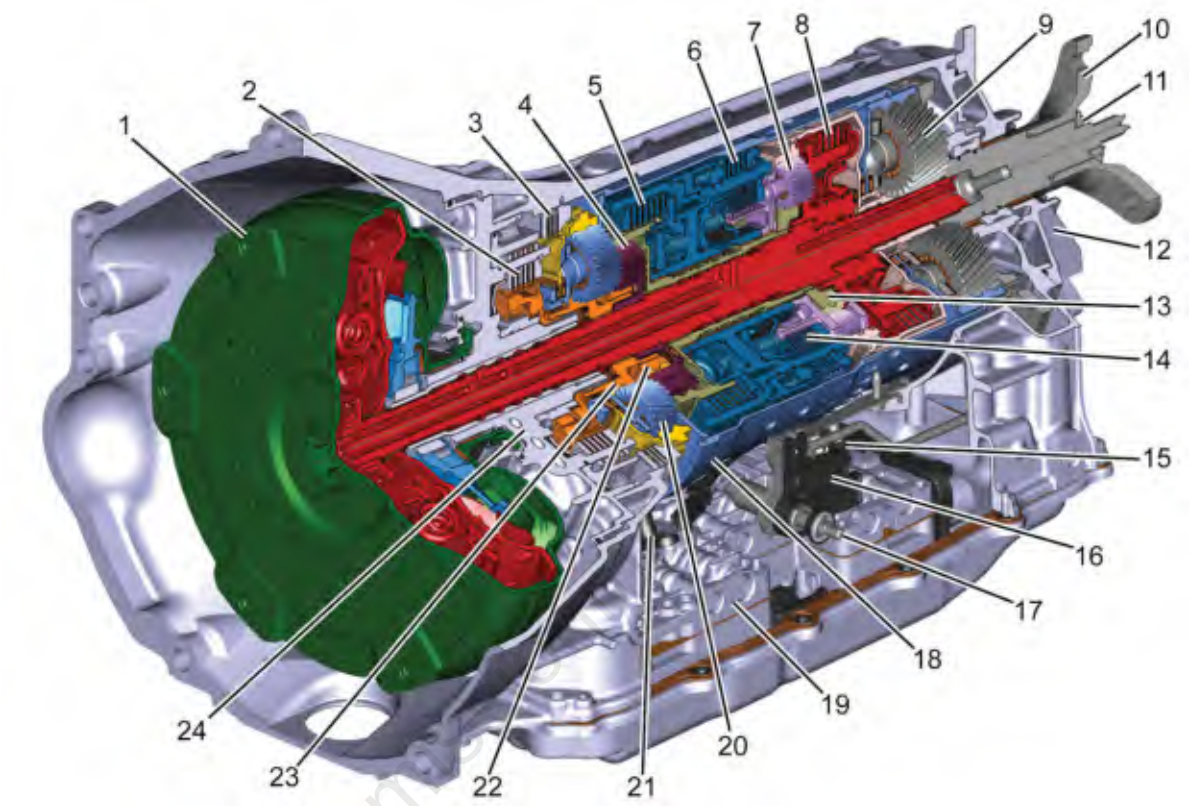



**Fig. 23: Identifying Automatic Transmission Component Locations**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 1 | Torque Converter |
| 2 | 1-2-8-9-10-Reverse Clutch |
| 3 | 1-2-3-4-5-6-Reverse Clutch |
| 4 | Input Carrier Assembly |
| 5 | 2-3-4-5-7-9-10 Clutch |
| 6 | 4-5-6-7-8-9-10-Reverse Clutch |
| 7 | Direct Overdrive Carrier |
| 8 | 1-3-5-6-7-8-9 Clutch |
| 9 | Output Carrier Assembly |
| 10 | Propeller Shaft Transmission Flange |
| 11 | Propeller Shaft Transmission Flange Nut |
| 12 | Automatic Transmission Case Extension |
| 13 | Direct Overdrive Sun Gear |
| 14 | 1-2-3-4-6-7-8-10-Reverse Clutch |
| 15 | Automatic Transmission Intermediate Speed Sensor |

| Callout | Component Name |
|---|---|
| 16 | Automatic Transmission Manual Shift Shaft Position Switch |
| 17 | Manual Shift Shaft |
| 18 | Output Carrier Internal Gear Transfer Shell |
| 19 | Control Valve Body Assembly |
| 20 | Reaction Carrier |
| 21 | Automatic Transmission Turbine Speed Sensor |
| 22 | Input Sun Gear |
| 23 | Reaction Sun Gear |
| 24 | Stator Shaft Support |

## BUSHING, BEARING, AND WASHER LOCATIONS

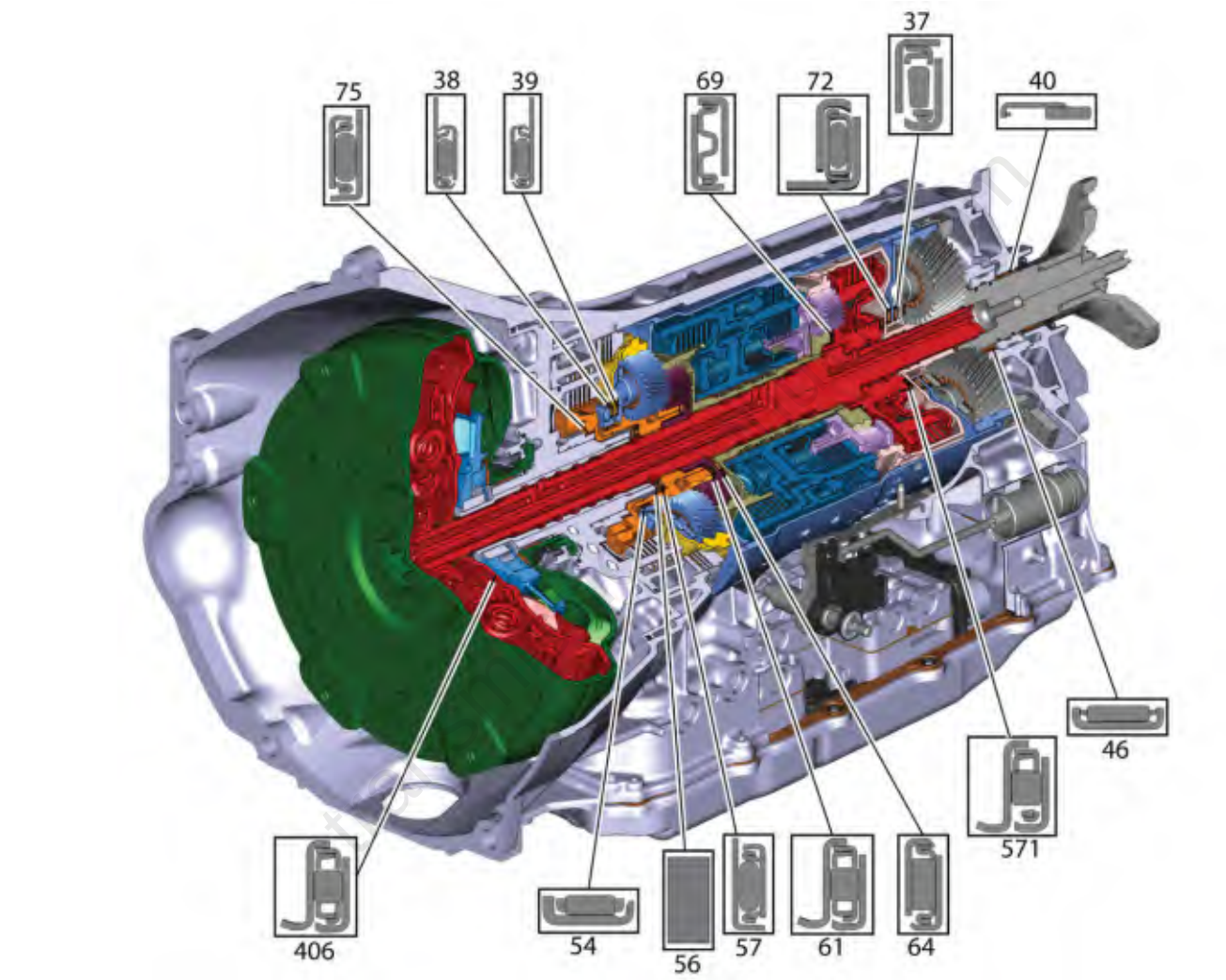



**Fig. 24: Identifying Bushing, Bearing And Washer Component Locations**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 37 | Output Carrier Thrust Bearing |
| 38 | Output Carrier Thrust Bearing |
| 39 | Output Carrier Thrust Bearing |
| 40 | Output Shaft Bearing |
| 46 | Output Shaft Bearing |
| 54 | Reaction Carrier Hub Bearing |
| 56 | Reaction Sun Gear Thrust Bearing |
| 57 | Reaction Sun Gear Thrust Bearing |

| Callout | Component Name |
|---|---|
| 61 | Input Sun Gear Thrust Bearing |
| 64 | Input Sun Gear Thrust Bearing |
| 69 | Direct Overdrive Sun Gear Thrust Bearing |
| 72 | Output Carrier Thrust Bearing |
| 75 | Reaction Internal Gear Thrust Bearing |
| 406 | Automatic Transmission Fluid Pump Bearing |
| 571 | Output Sun Gear Thrust Bearing |

## SEAL LOCATIONS

### Seal Locations (1 of 3)

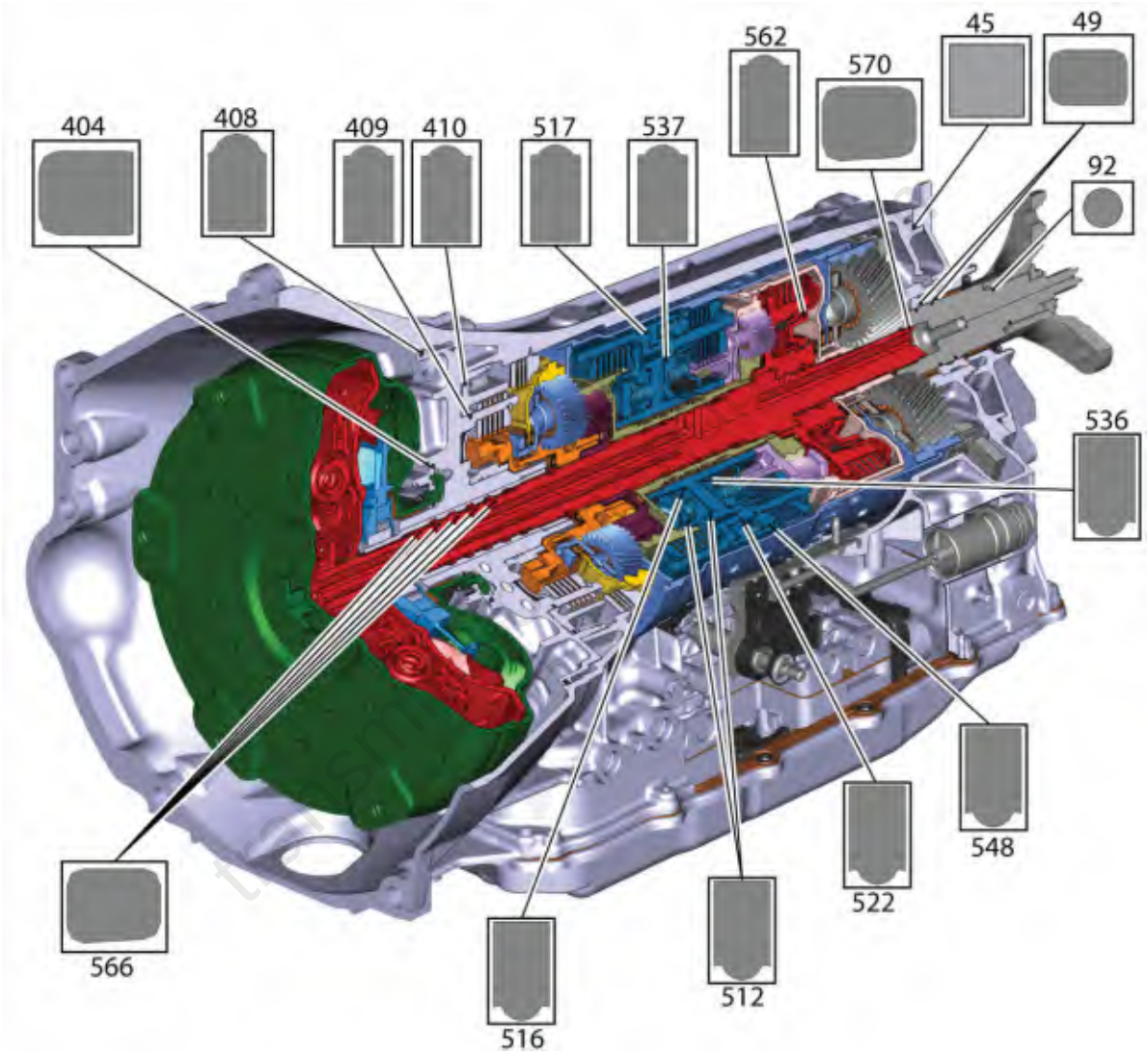



**Fig. 25: Identifying Transmission Seal Locations (1 Of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 45 | Automatic Transmission Case Extension Seal |
| 49 | Output Shaft Seal |
| 92 | Output Shaft Seal - Model Dependent |
| 404 | Torque Converter Fluid Seal |
| 408 | Stator Shaft Support Seal |
| 409 | 1-2-3-4-5-6-Reverse Clutch Piston Seal- Inner |
| 410 | 1-2-3-4-5-6-Reverse Clutch Piston Seal- Outer |
| 512 | 2-3-4-5-7-9-10 Clutch Piston Seal- Outer |

| Callout | Component Name |
|---|---|
| 516 | 2-3-4-5-7-9-10 Clutch Piston Seal- Inner |
| 517 | 4-5-6-7-8-9-10-Reverse Clutch Piston Seal- Outer |
| 522 | 4-5-6-7-8-9-10-Reverse Clutch Piston Seal- Inner |
| 536 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal- Inner |
| 537 | 1-2-3-4-6-7-8-10-Reverse Clutch Piston Seal- Outer |
| 548 | 4-5-6-7-8-9-10-Reverse Clutch Piston Dam Seal- Outer |
| 562 | 1-3-5-6-7-8-9 Clutch Piston Dam Seal- Outer |
| 566 | Turbine Shaft Seal |
| 570 | Turbine Shaft Seal |

**Seal Locations (2 of 3)**

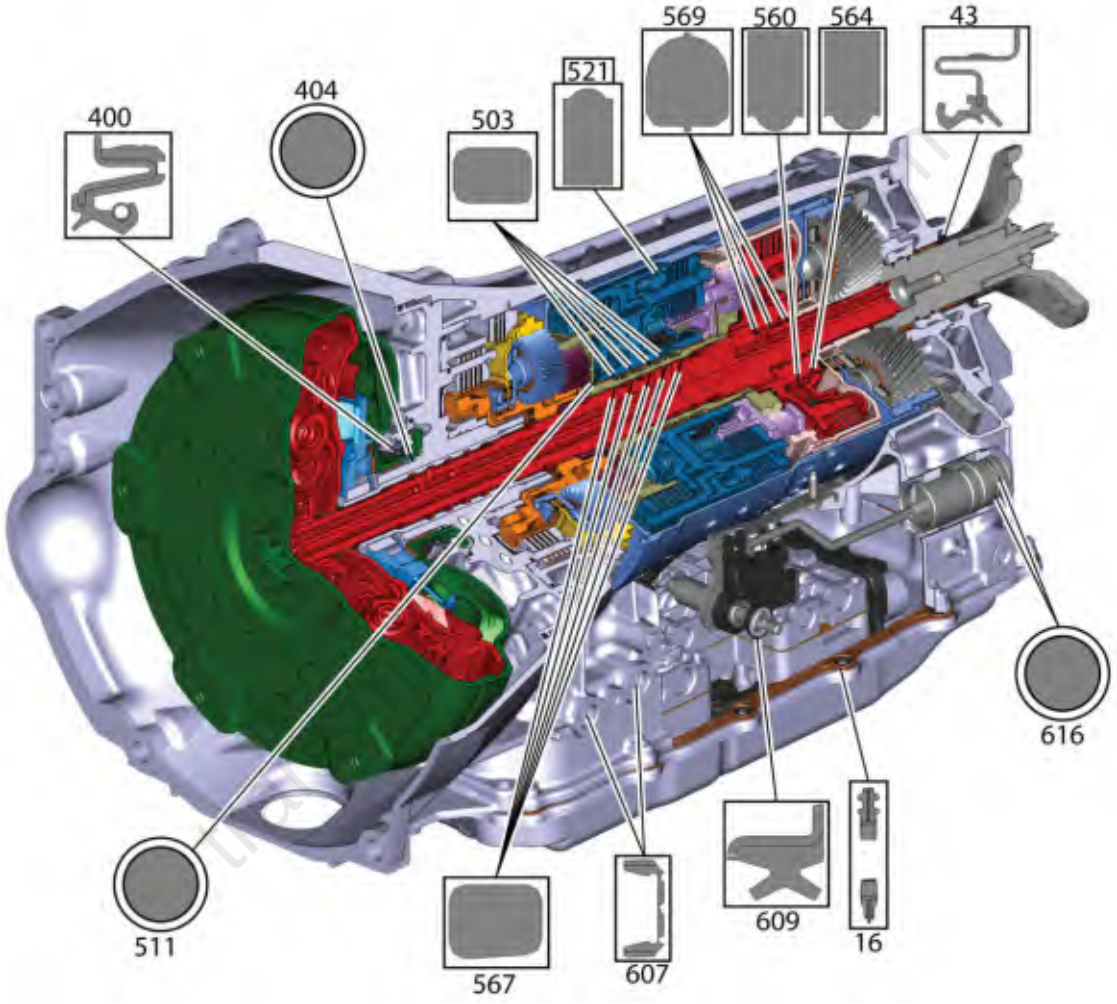



**Fig. 26: Identifying Transmission Seal Locations (2 Of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 16 | Automatic Transmission Fluid Pan Gasket |
| 43 | Propeller Shaft Transmission Flange Fluid Seal |
| 400 | Torque Converter Fluid Seal |
| 404 | Torque Converter Fluid Seal |
| 503 | Direct Overdrive Sun Gear Shaft Seal |
| 511 | 2-3-4-5-7-9-10 Clutch Piston Dam Seal- Inner |
| 521 | 4-5-6-7-8-9-10-Reverse Clutch Piston Seal- Outer |
| 560 | 1-3-5-6-7-8-9 Clutch Piston Seal |

| Callout | Component Name |
|---|---|
| 564 | 1-3-5-6-7-8-9 Clutch Piston Dam Seal |
| 567 | Turbine Shaft Seal |
| 569 | Turbine Shaft Seal |
| 607 | Transmission Fluid Cooler Pipe Fitting Seal |
| 609 | Manual Shift Shaft Seal |
| 616 | Park Pawl Actuator Guide Seal |

**Seal Locations (3 of 3)**

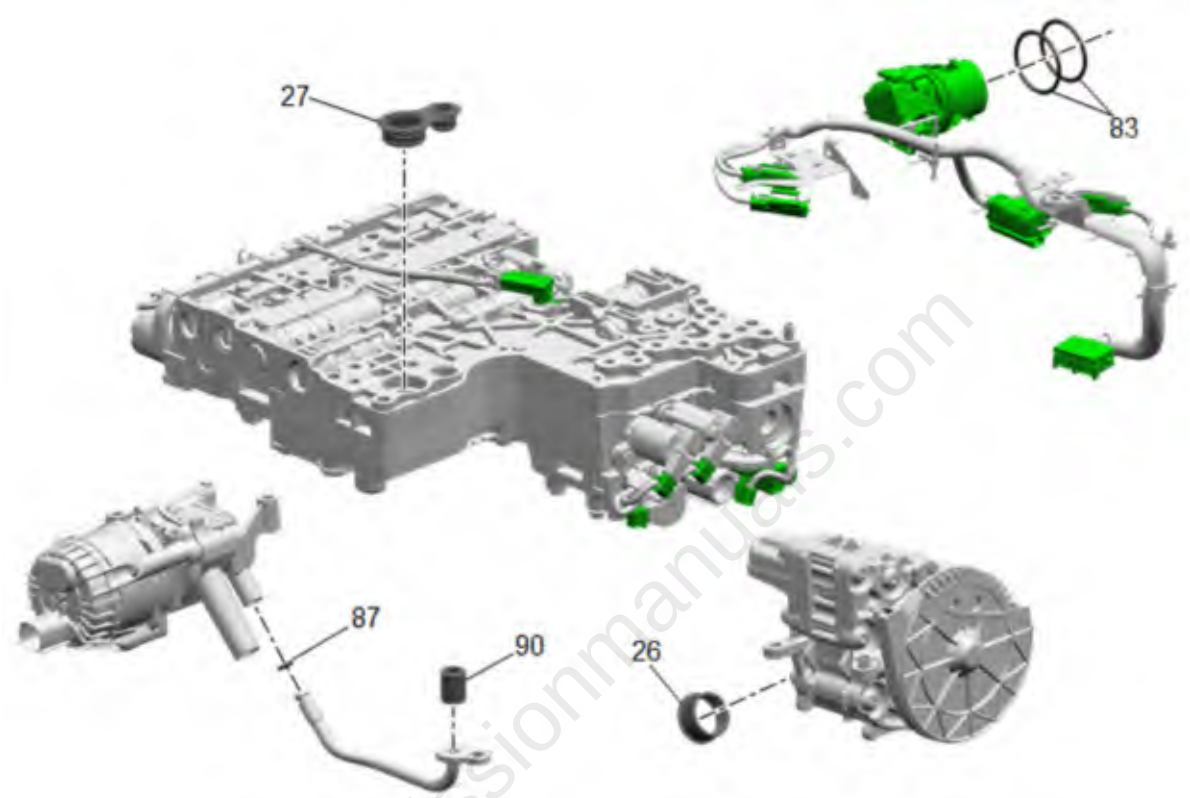



**Fig. 27: Identifying Transmission Seal Locations (3 Of 3)**
**Courtesy of GENERAL MOTORS COMPANY**

| Callout | Component Name |
|---|---|
| 26 | Automatic Transmission Fluid Pump Seal |
| 27 | Automatic Transmission Fluid Pump Seal |
| 83 | Wiring Harness Connector Seal - O-Ring [2x] |
| 87 | Automatic Transmission Auxiliary Fluid Pump Outlet Pipe Seal |
| 90 | Automatic Transmission Auxiliary Fluid Pump Seal |

## TRANSMISSION SOLENOID INFORMATION

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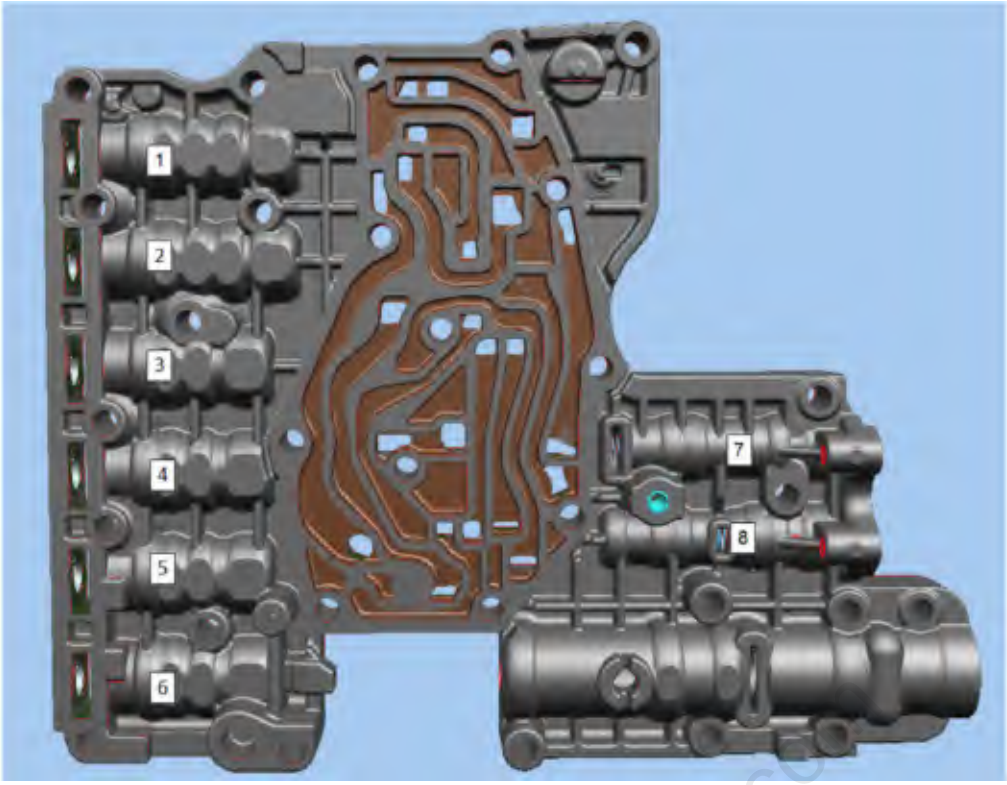
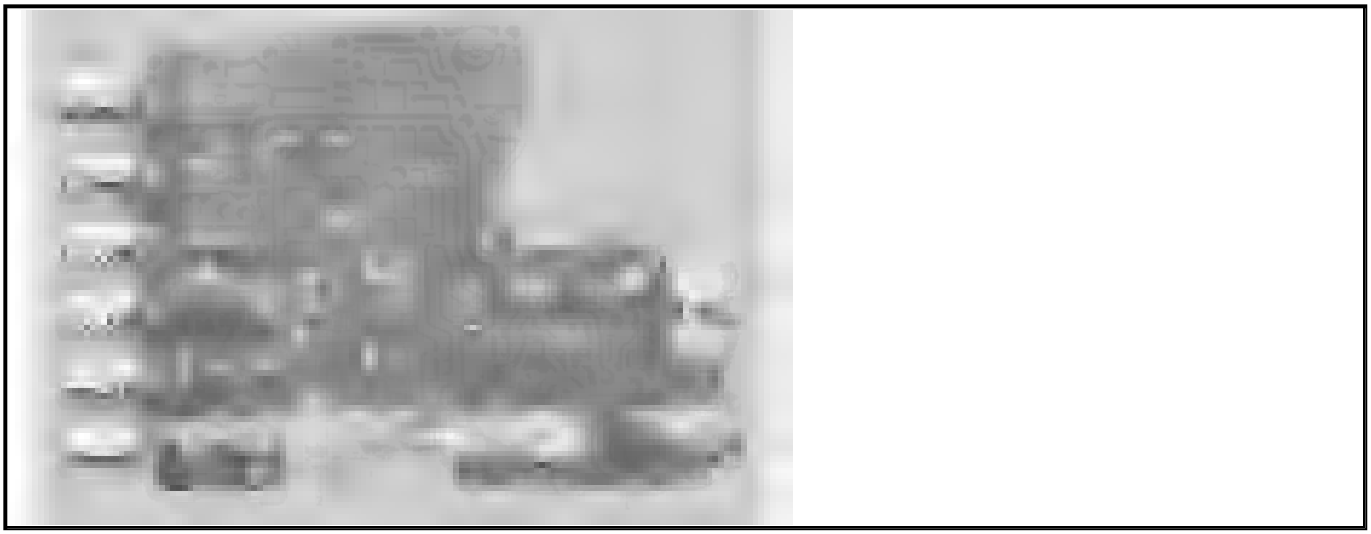



**Fig. 28: Identifying Transmission Solenoids (GEN 1)**
**Courtesy of GENERAL MOTORS COMPANY**

**GEN 1**

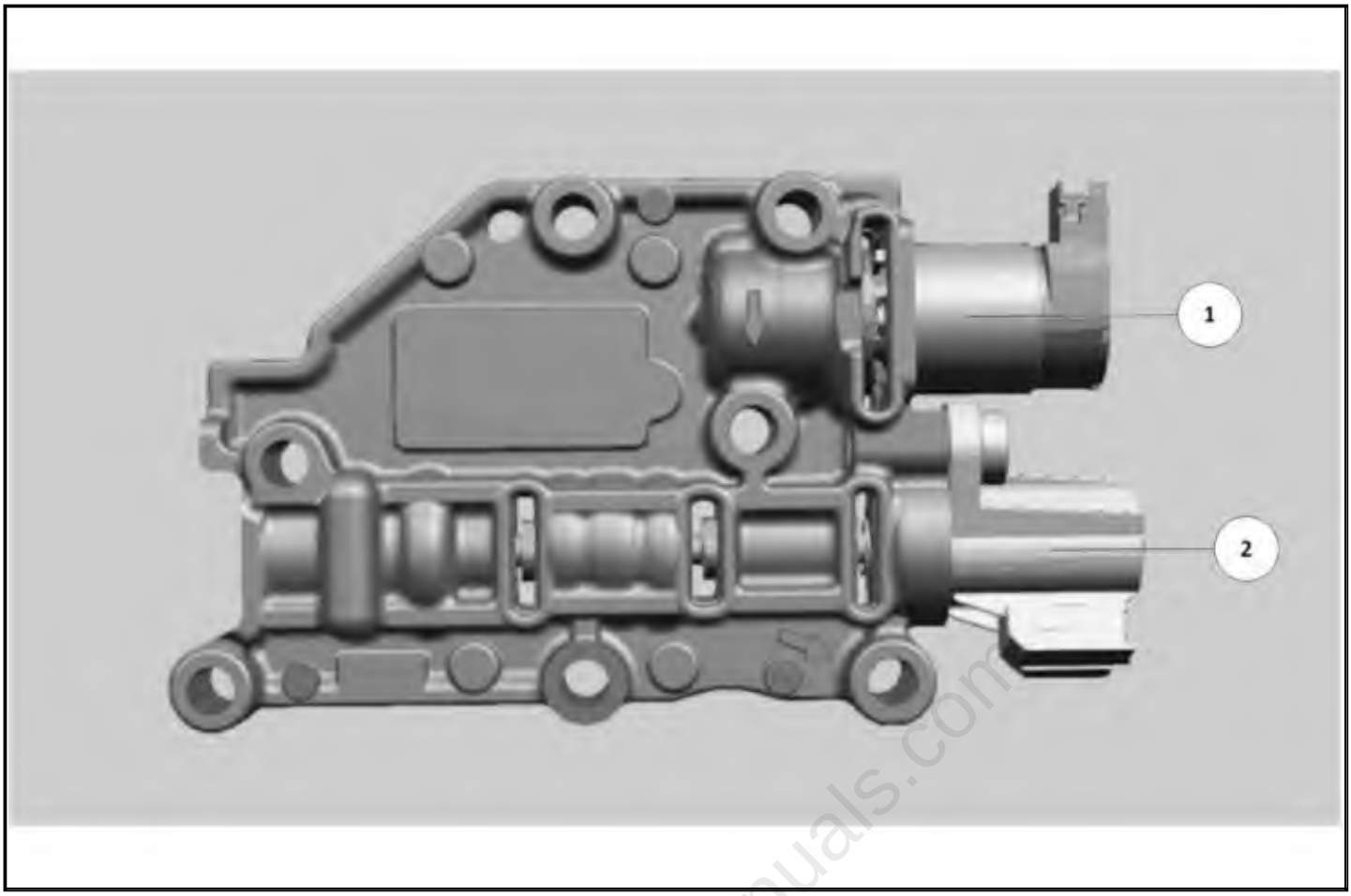
| Valve Body Bore Location / Call Out | Component Code / Name | Function | Type | Resistance Value @ 20B°C (68B°F) |
|---|---|---|---|---|
| 6 | Q77A Transmission Control Solenoid Valve 1 | Clutch Control C1 (1 - 2 - 3 - 4 - 5 - 6 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| 3 | Q77B Transmission Control Solenoid Valve 2 | Clutch Control C2 (1 - 2 - 8 - 9 - 10 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| 4 | Q77C Transmission Control Solenoid Valve 3 | Clutch Control C3 (2 - 3 - 4 - 5 - 7 - 9 - 10) | Linear, Normally Low | 5.0 to 5.4 ohms |
| 1 | Q77D Transmission Control Solenoid Valve 4 | Clutch Control C4 (4 - 5 - 6 - 7 - 8 - 9 - 10 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| 2 | Q77E Transmission Control Solenoid Valve 5 | Clutch Control C5 (1 - 3 - 5 - 6 - 7 - 8 - 9) | Linear, Normally Low | 5.0 to 5.4 ohms |
| 5 | Q77F Transmission Control Solenoid Valve 6 | Clutch Control C6 (1 - 2 - 3 - 4 - 6 - 7 - 8 - 10 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| 8 | Q77G Transmission Control Solenoid Valve 7 | Torque Converter Clutch | Variable Force, Normally Low | 5.0 to 5.4 ohms |
| 7 | Q77J Transmission Control Solenoid Valve 9 | Line Pressure | Variable Force, Normally High | 5.0 to 5.4 ohms |



**GEN 2**

| Valve Body Bore Location / Call Out | Component Code / Name | Function | Type | Resistance Value @ 20B°C (68B°F) |
|---|---|---|---|---|
| A | Q77A Transmission Control Solenoid Valve 1 | Clutch Control C1 (1 - 2 - 3 - 4 - 5 - 6 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| B | Q77B Transmission Control Solenoid Valve 2 | Clutch Control C2 (1 - 2 - 8 - 9 - 10 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| C | Q77C Transmission Control Solenoid Valve 3 | Clutch Control C3 (2 - 3 - 4 - 5 - 7 - 9 - 10) | Linear, Normally Low | 5.0 to 5.4 ohms |
| D | Q77D Transmission Control Solenoid Valve 4 | Clutch Control C4 (4 - 5 - 6 - 7 - 8 - 9 - 10 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| E | Q77E Transmission Control Solenoid Valve 5 | Clutch Control C5 (1 - 3 - 5 - 6 - 7 - 8 - 9) | Linear, Normally Low | 5.0 to 5.4 ohms |
| F | Q77F Transmission Control Solenoid Valve 6 | Clutch Control C6 (1 - 2 - 3 - 4 - 6 - 7 - 8 - 10 - R) | Linear, Normally Low | 5.0 to 5.4 ohms |
| T | Q77G Transmission Control Solenoid Valve 7 | Torque Converter Clutch | Variable Force, Normally Low | 5.0 to 5.4 ohms |
| AB | Q77J Transmission Control Solenoid Valve 9 | Line Pressure | Variable Force, Normally High | 5.0 to 5.4 ohms |
| 1 | M123 Transmission Park Valve Lock Solenoid Actuator | - | - | 15 to 25 ohms |
| 2 | B316 Transmission Park Valve Position Switch | Transmission Park Valve Position Sensor 1 | 0.78 to 0.82 V | 1.98 to 2.02 V |
| | | Transmission Park Valve Position Sensor 2 | 0.78 to 0.82 V | 1.98 to 2.02 V |

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**AUX**

| Call Out Number | Component Code | TCM Scan Tool Parameter | Parameter Value - in Park | Parameter Value - Out of Park |
|---|---|---|---|---|
| 1 | Q77H Transmission Control Solenoid Valve 8 | Default Disable * Solenoid is needed to achieve 2nd, 7th and Reverse when a fault is present. | ON/OFF | 5.0 to 5.4 ohms |
| 2 | B315A Transmission Range Control Valve 1 Position Switch | Transmission Range Control Valve 1 Position Switch Status | Complete | Not Running |

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