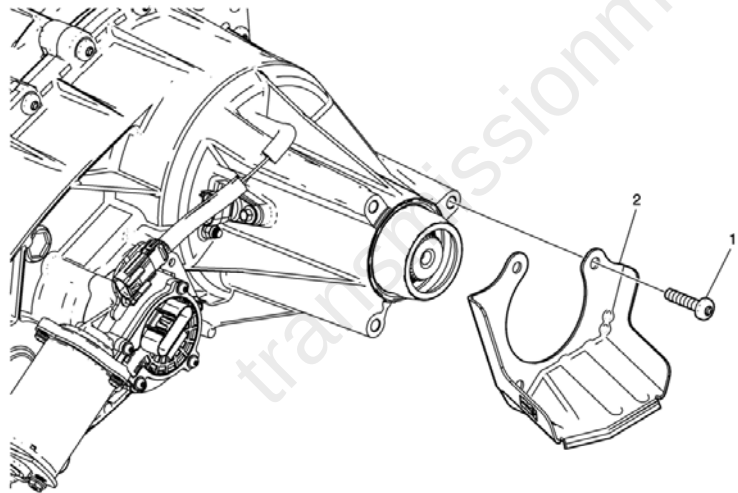


2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:

Table 1:	Transfer Case Shield Removal
Table 2:	Transfer Case Vibration Dampener Removal
Table 3:	Transfer Case Holding Fixture Installation
Table 4:	Oil Fill and Drain Plug, Vent Hose Connector, Two/Four Wheel Drive Actuator, and Speed Sensor Removal
Table 5:	Input Shaft Seal Removal
Table 6:	Rear Output Shaft Seal and Bushing Removal
Table 7:	Transfer Case Rear Half Removal
Table 8:	Two/Four Wheel Drive Clutch Coil and Cam Shaft Detent Lever Seal Removal
Table 9:	Front Output Shaft Rear Bearing Removal
Table 10:	Shift Cam Assembly Removal
Table 11:	Rear Output Shaft Rear Bearing Removal
Table 12:	Two/Four Wheel Drive Synchronizer Hub and High/Low Shift Fork Removal
Table 13:	Drive Chain and Sprockets, Oil Pump Assembly, and Rear Output Shaft Removal
Table 14:	High/Low Planetary Carrier Assembly, Front Output Shaft, and Planetary Carrier Internal Gear Removal
Table 15:	Front Output Shaft Flange Removal
Table 16:	Input Shaft Bearing and Front Output Shaft Front Bearing Removal
Table 17:	Transfer Case Stud Removal

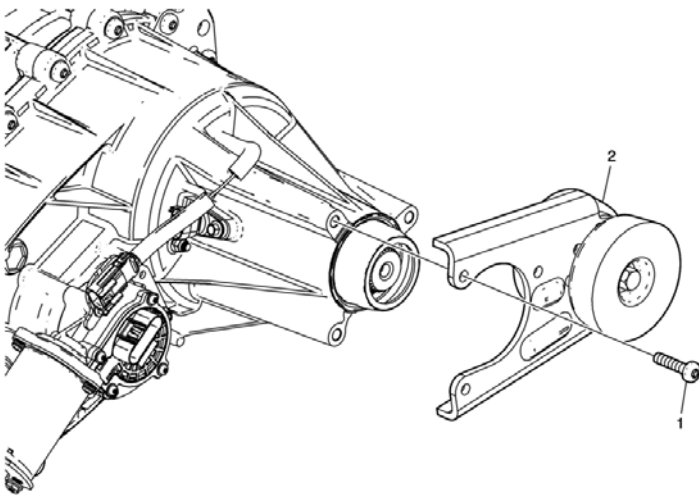
[Transfer Case Shield Removal](#)



Transfer Case Shield Removal

Callout	Component Name
1	Transfer Case Shield Bolt - Model Dependent
2	Transfer Case Shield - Model Dependent

[Transfer Case Vibration Dampener Removal](#)



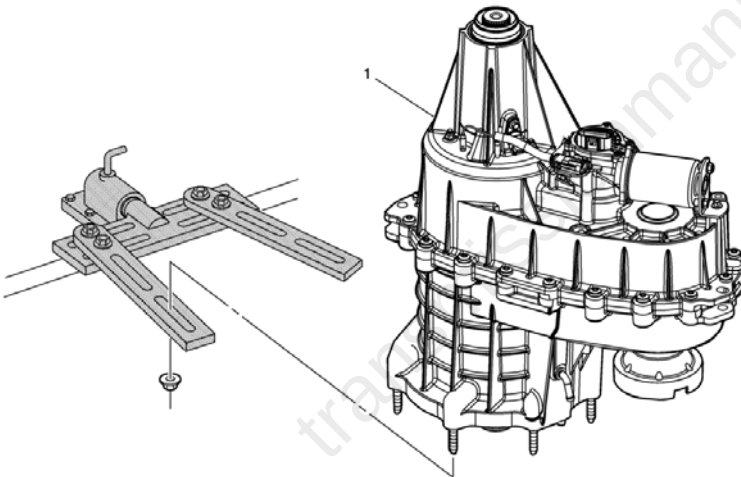
Transfer Case Vibration Dampener Removal

Callout

Component Name

- | | |
|---|---|
| 1 | Transfer Case Vibration Dampener Bolt - Model Dependent |
| 2 | Transfer Case Vibration Dampener - Model Dependent. |

[Transfer Case Holding Fixture Installation](#)



Transfer Case Holding Fixture Installation

Callout

Component Name

Transfer Case

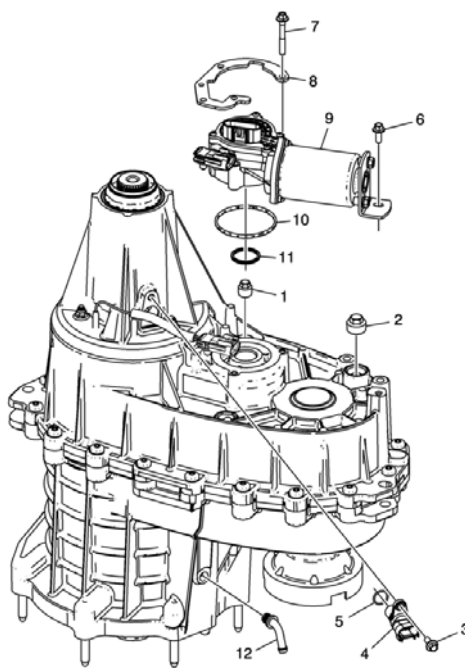
Procedure

- | | |
|---|--|
| 1 | <ol style="list-style-type: none"> 1. Always secure with the pivot pin after rotating. 2. The transfer case can be rotated 360 degrees to facilitate repair. 3. Use four M10 x 1.5 mm nuts to retain the assembly to the fixture. |
|---|--|

Special Tools

- J 3289-20 Holding Fixture Base Assembly
- J 36842 Case Holding Fixture

For equivalent regional tools, refer to Special Tools.

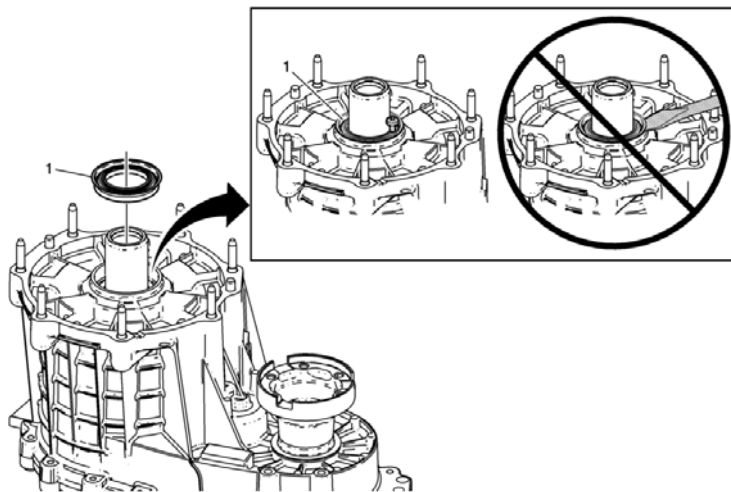


Oil Fill and Drain Plug, Vent Hose Connector, Two/Four Wheel Drive Actuator, and Speed Sensor Removal

Callout

Component Name

- | | |
|----|--|
| 1 | Oil Fill Plug |
| 2 | Oil Drain Plug |
| 3 | Speed Sensor Bolt |
| 4 | Rear Output Shaft Speed Sensor |
| 5 | Speed Sensor O-ring Seal |
| | Note: The speed sensor O-ring seal is reusable. Inspect the O-ring seal for damage and replace as required. |
| 6 | Two/Four Wheel Drive Actuator Bolt |
| 7 | Two/Four Wheel Drive Actuator Motor Bracket Bolt |
| 8 | Actuator Motor Bracket |
| 9 | Two/Four Wheel Drive Actuator Assembly |
| 10 | Two/Four Wheel Drive Actuator Outer O-ring Seal |
| 11 | Two/Four Wheel Drive Actuator Inner O-ring Seal |
| | Vent Hose Connector |
| 12 | Note: Remove ONLY if vent hose connector replacement is required. |



Input Shaft Seal Removal

Callout

Component Name

Input Shaft Seal

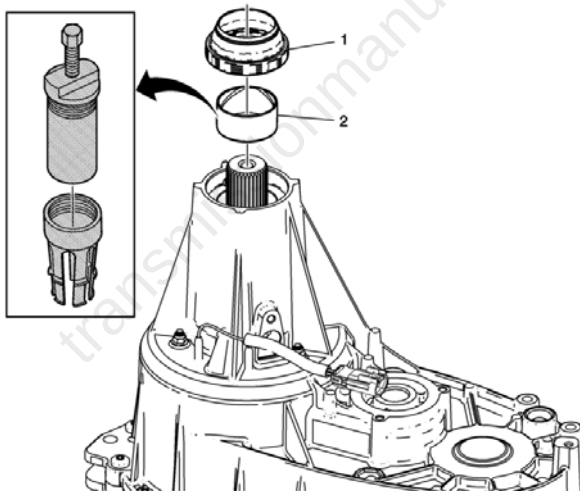
Caution: Refer to Machined Surface Damage Caution.

1

Procedure

1. Drill a pilot hole, as required, and insert a self-tapping screw into the body of the seal.
2. Use pliers or a slide hammer type tool to remove the seal from the bore.

[Rear Output Shaft Seal and Bushing Removal](#)



Rear Output Shaft Seal and Bushing Removal

Callout

Component Name

Rear Output Shaft Seal

Caution: Refer to Transfer Case Seal Removal Caution.

1

Rear Output Shaft Bushing

Procedure

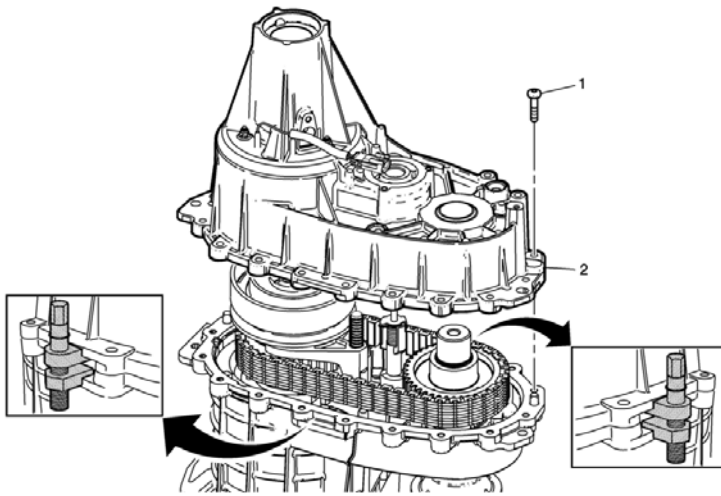
2

1. Only remove the bushing if faulty. Refer to Transfer Case Rear Half Cleaning and Inspection.
2. Install the finger section of the J 45380 remover/installer into the bushing.
3. Install the forcing tube assembly into the finger section. Ensure the forcing screw is backed out.
4. Using a wrench on the forcing screw, remove the bushing.

Special Tools

J 45380 Transfer Case Rear Bushing Remover and Installer

For equivalent regional tools, refer to Special Tools.



Transfer Case Rear Half Removal

Callout

1 Transfer Case Half Bolt (Qty: 18)

Transfer Case Rear Half

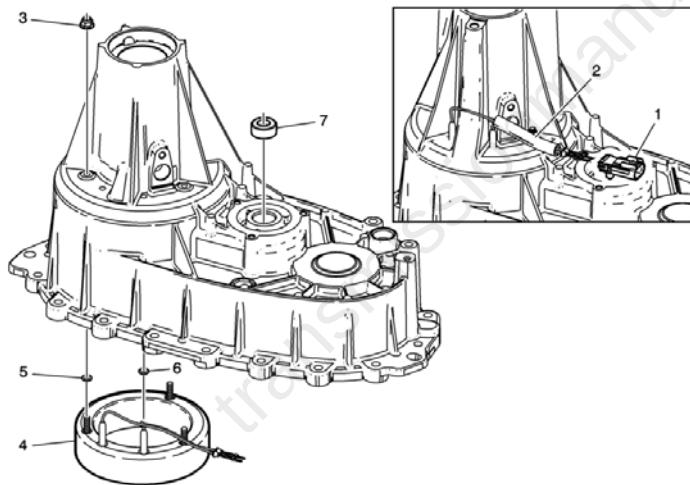
Special Tools

2 DT 50228 Case Splitter

For equivalent regional tools, refer to Special Tools.

Component Name

Two/Four Wheel Drive Clutch Coil and Cam Shaft Detent Lever Seal Removal



Two/Four Wheel Drive Clutch Coil and Cam Shaft Detent Lever Seal Removal

Callout

- 1 Synchronizer Coil Wiring Harness Connector Assembly
Note: Remove the connector wire retaining clip and separate the wires from the connector.
- 2 Synchronizer Coil Wiring Harness Conduit
Note: Slide the conduit over the synchronizer coil wires to remove it.
- 3 Two/Four Wheel Drive Clutch Coil Nut
- 4 Two/Four Wheel Drive Clutch Coil Assembly
Note: Carefully slide the wires through the holes in the case to avoid damage to the wire coating.
- 5 Two/Four Wheel Drive Clutch Coil Stud O-ring Seals.
Note: Replace as required.
- 6 Two/Four Wheel Drive Clutch Coil Stud Wire O-ring Seals.
Note: Replace as required.

Component Name

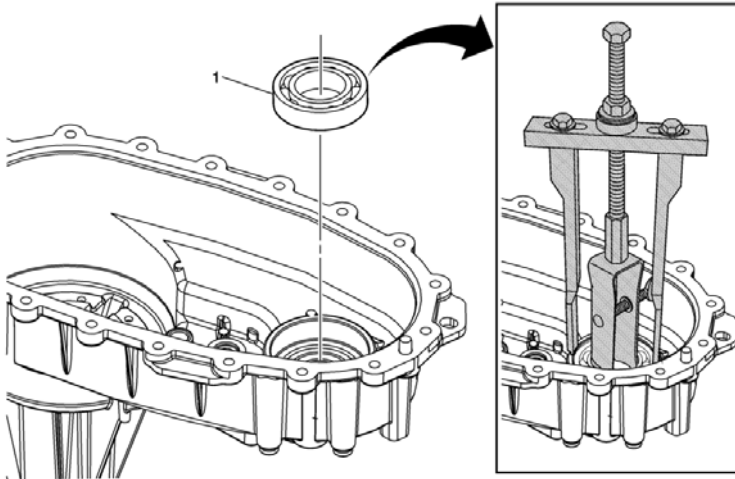
Callout

Component Name

7

Cam Shaft Detent Lever Seal

Front Output Shaft Rear Bearing Removal



Front Output Shaft Rear Bearing Removal

Callout

Component Name

Front Output Shaft Rear Bearing

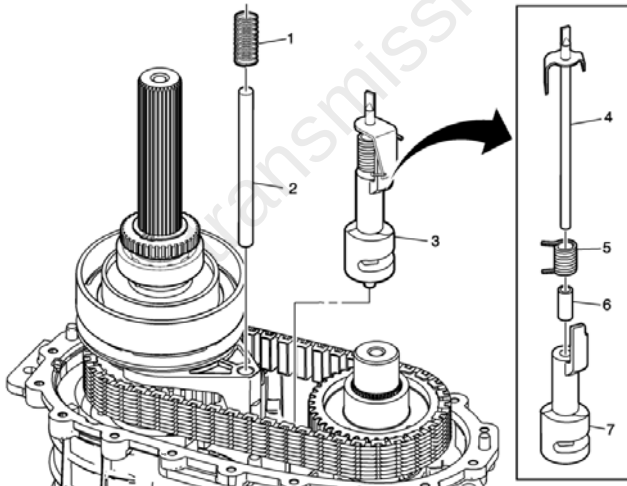
Special Tools

1

- J 29369-1 Bushing and Bearing Remover
- J 45124 Removal Bridge

For equivalent regional tools, refer to Special Tools.

Shift Cam Assembly Removal



Shift Cam Assembly Removal

Callout

Component Name

1

Shift Fork Spring

2

Shift Rail

3

Shift Cam Assembly

4

Shift Detent Lever Shaft

5

High/Low Shift Fork Shaft Detent Spring

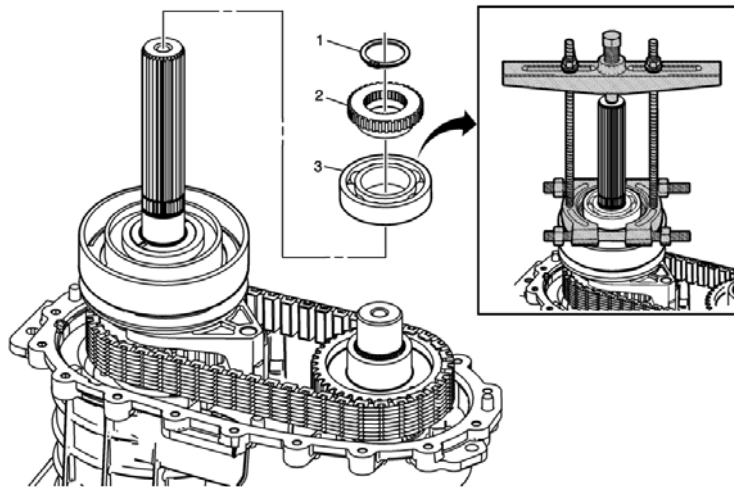
Note: Orientation of the spring tabs for reassembly.

Callout

Component Name

- | | |
|---|---------------------------|
| 6 | Shift Detent Lever Spacer |
| 7 | Shift Cam |

Rear Output Shaft Rear Bearing Removal



Rear Output Shaft Rear Bearing Removal

Callout

Component Name

- | | |
|---|--|
| 1 | Speed Sensor Reluctor Wheel Retaining Ring |
| 2 | Speed Sensor Reluctor Wheel |

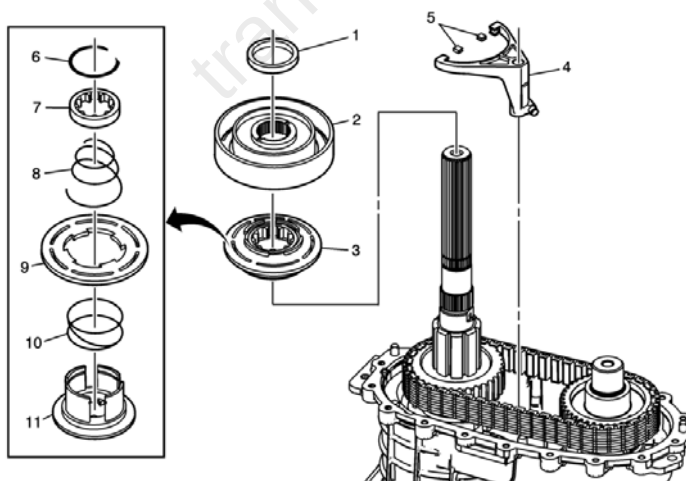
Rear Output Shaft Rear Bearing

Special Tools

- | | |
|---|---|
| 3 | <ul style="list-style-type: none"> • J 8433 Two Jaw Puller • J 22912 Split Plate Bearing Puller • DT 50315 Puller Hardware Kit |
|---|---|

For equivalent regional tools, refer to Special Tools.

Two/Four Wheel Drive Synchronizer Hub and High/Low Shift Fork Removal



Two/Four Wheel Drive Synchronizer Hub and High/Low Shift Fork Removal

Callout

Component Name

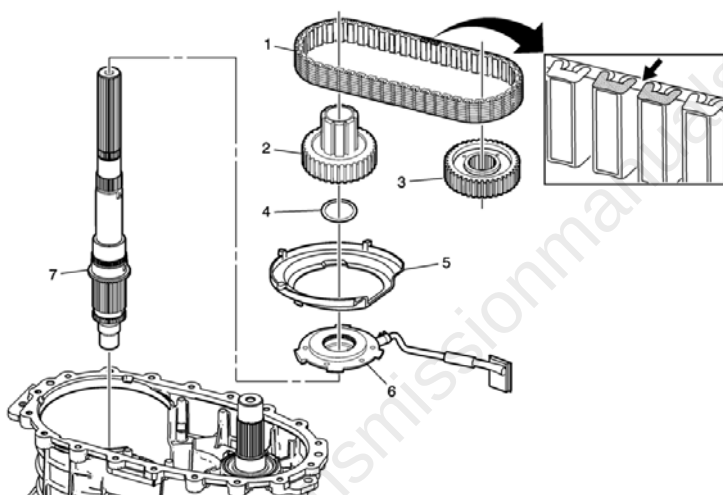
- | | |
|---|---------------------------------------|
| 1 | Rear Output Shaft Bearing Spacer |
| 2 | Two/Four Wheel Drive Synchronizer Hub |

Callout

Component Name

- | | |
|----|---|
| 3 | Two/Four Wheel Drive Lockup Assembly |
| | Note: Remove the two/four shift fork and the two/four wheel drive lockup from the shift rail as an assembly. |
| 4 | Two/Four Shift Fork |
| 5 | Two/Four Shift Fork Pads |
| 6 | Lockup Retaining Ring |
| 7 | Synchronizer Collar |
| 8 | Two/Four Wheel Drive Synchronizer Hub Inner Spring |
| 9 | Four Wheel Drive Armature Plate |
| 10 | Two/Four Wheel Drive Synchronizer Hub Outer Spring |
| 11 | Two/Four Wheel Drive Clutch Coil Housing |

Drive Chain and Sprockets, Oil Pump Assembly, and Rear Output Shaft Removal



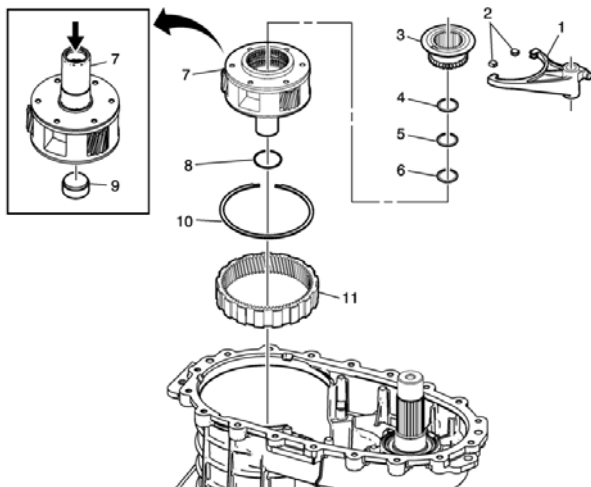
Drive Chain and Sprockets, Oil Pump Assembly, and Rear Output Shaft Removal

Callout

Component Name

- | | |
|---|--|
| 1 | Front Output Shaft Drive Chain Assembly |
| | Note: Note the orientation of the blue links to the sprockets for reassembly. |
| 2 | Front Output Shaft Drive Sprocket |
| 3 | Front Output Shaft Driven Sprocket |
| 4 | Front Output Shaft Drive Sprocket Thrust Washer |
| 5 | Support Bracket |
| 6 | Oil Pump Assembly |
| 7 | Rear Output Shaft |
| | Note: Note the orientation of the rear output shaft to the range shift sleeve to aid in reassembly. |

High/Low Planetary Carrier Assembly, Front Output Shaft, and Planetary Carrier Internal Gear Removal



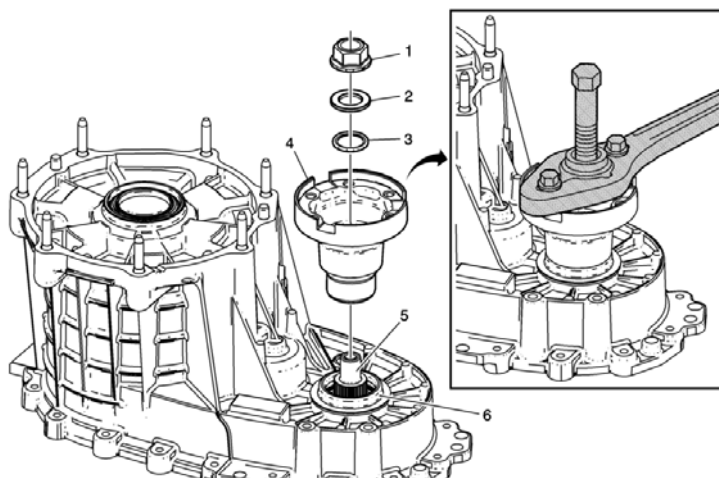
High/Low Planetary Carrier Assembly, Front Output Shaft, and Planetary Carrier Internal Gear Removal

Callout

Component Name

- 1 High/Low Wheel Drive Shift Fork
Note: Remove the shift fork and range shift sleeve as an assembly.
- 2 High/Low Drive Shift Fork Pads
- 3 Range Shift Sleeve
- 4 Planetary Carrier Sun Gear Thrust Washer
- 5 Input Shaft Thrust Bearing
- 6 Planetary Carrier Sun Gear Thrust Washer
- 7 High/Low Planetary Carrier Assembly
Note: First design planetary carriers are a 6-pinion design. Second design planetary carriers are a 3-pinion design. When replacing a 6-pinion carrier with a 3-pinion design, the 3-pinion design planetary carrier internal gear must also be used. Refer to New Product Information.
- 8 Input Shaft O-ring Seal
- 9 Input Shaft Pilot Bearing
- 10 High/Low Internal Gear Retaining Ring
- 11 Planetary Carrier Internal Gear
Note: First design planetary carriers are a 6-pinion design. Second design planetary carriers are a 3-pinion design. When replacing a 6-pinion carrier with a 3-pinion design, the 3-pinion design planetary carrier internal gear must also be used. Refer to New Product Information.

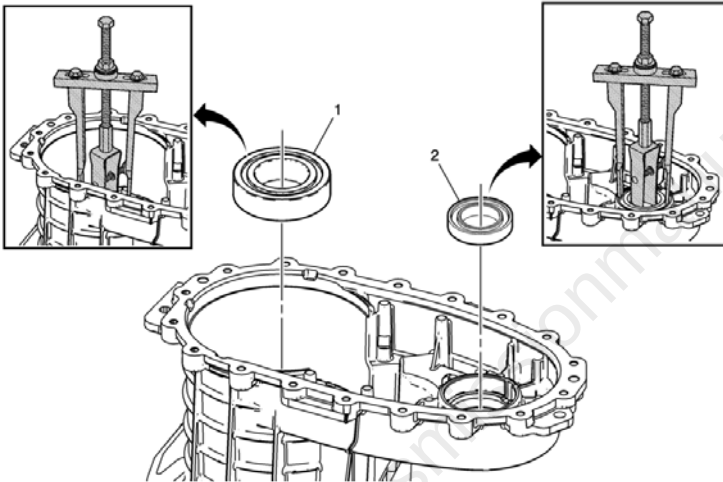
Front Output Shaft Flange Removal



Front Output Shaft Flange Removal

Callout	Component Name
1	Front Output Shaft Flange Nut
2	Front Output Shaft Flange Washer
3	Front Output Shaft O-ring Seal
	Front Output Shaft Flange
Special Tools	
4	• J 08614-A Pinion Flange Holder and Remover • DT 08614-20 Flange Retaining Bolts For equivalent regional tools, refer to Special Tools.
5	Front Output Shaft
6	Front Output Shaft Seal

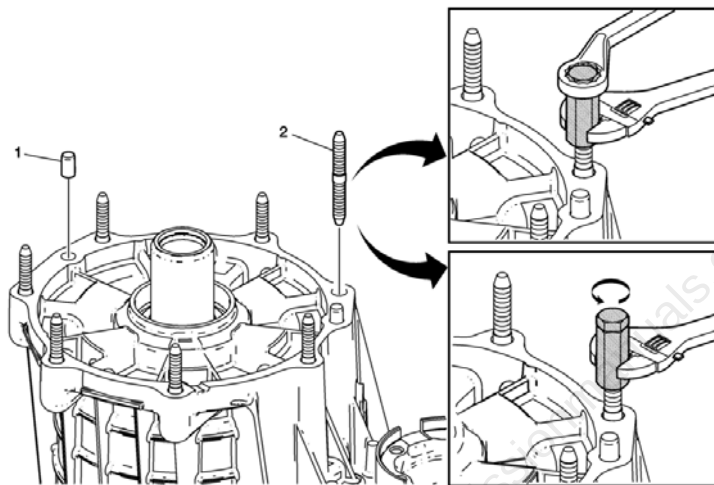
Input Shaft Bearing and Front Output Shaft Front Bearing Removal



Input Shaft Bearing and Front Output Shaft Front Bearing Removal

Callout	Component Name
	Input Shaft Bearing
Special Tools	
1	• J 29369-1 Bushing and Bearing Remover • J 45124 Removal Bridge For equivalent regional tools, refer to Special Tools. Front Output Shaft Front Bearing
Special Tools	
2	• J 29369-1 Bushing and Bearing Remover • J 45124 Removal Bridge For equivalent regional tools, refer to Special Tools.

Transfer Case Stud Removal



Transfer Case Stud Removal

Callout

Component Name

1

Transfer Case Stud – Transmission Interface

Note: Remove the studs as required.

Transfer Case Stud

Special Tools

2

DT 49308 Stud Installer

For equivalent regional tools, refer to Special Tools.