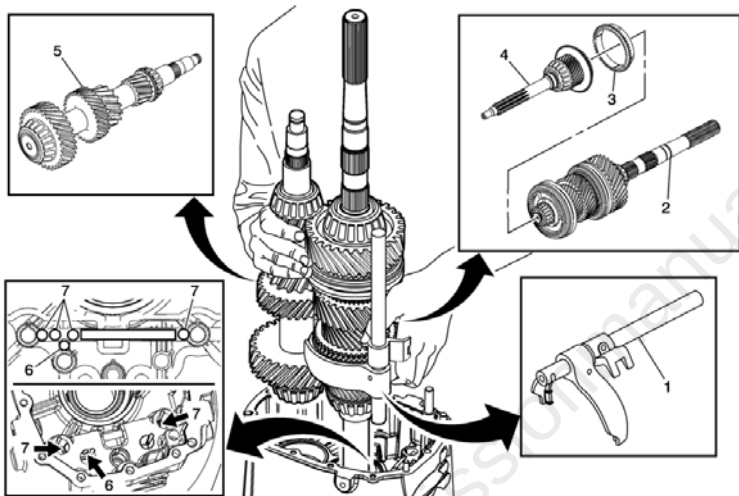


2013 Chevrolet Colorado

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

Table 1:	Mainshaft, Input Shaft and Counter Gear Shaft Installation
Table 2:	Shift Shafts and Forks Installation
Table 3:	Intermediate Case Installation
Table 4:	5th Gear, and 5th Counter Gear Installation
Table 5:	5th and Reverse Shift Fork Installation
Table 6:	Reverse Gear, 5th Gear Synchronizer and Reverse Gear Assembly, and Reverse Idler Gear Installation
Table 7:	Mainshaft Nut and Front Counter Gear Rear Bearing Installation
Table 8:	Output Shaft Sleeve Installation
Table 9:	Rear Case and Shift Lever Housing Installation
Table 10:	Drain and Fill Plug Installation

Mainshaft, Input Shaft and Counter Gear Shaft Installation



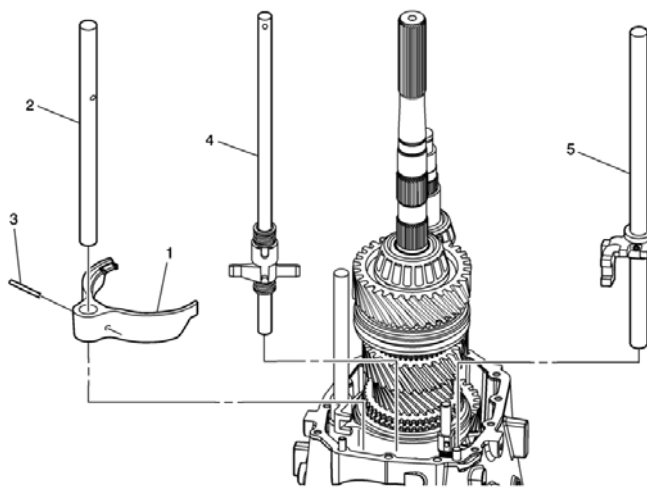
Mainshaft, Input Shaft and Counter Gear Shaft Installation

Callout	Component Name
---------	----------------

Preliminary Procedure

All the following components must be installed at the same time.

- | | |
|---|---|
| 1 | 3rd and 4th Shift Shaft and Fork Assembly |
| 2 | Mainshaft Assembly |
| 3 | 4th Gear Synchronizer Ring |
| 4 | Input Shaft Assembly |
| 5 | Counter Gear Shaft Assembly |
| | Shift Shaft Interlocking Ball – 8.0 mm (Qty: 1) |
| 6 | Tip: <ul style="list-style-type: none">• This 8.0 mm ball is located on the 1st/2nd yoke bar bore.• Use the appropriate lubricant to hold ball in the proper location. Shift Shaft Interlocking Balls – 9.5 mm (Qty: 4) |
| 7 | Tip: <ul style="list-style-type: none">• See locations of the four 9.5 mm balls shown above.• Use the appropriate lubricant to hold ball in the proper location. |



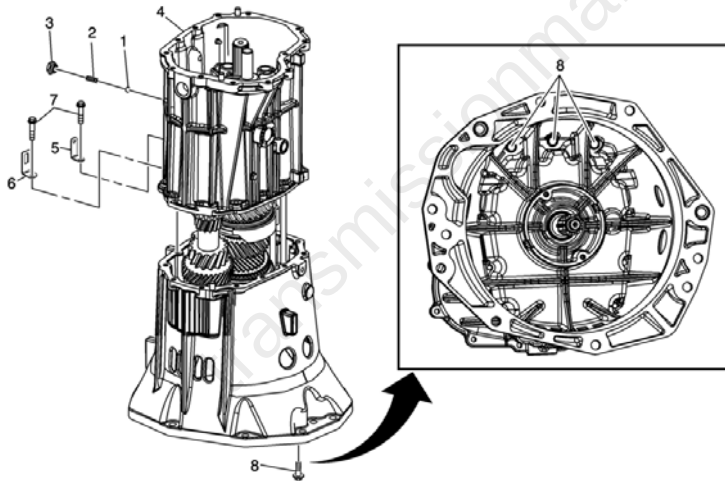
Shift Shafts and Forks Installation

Callout

- | | |
|---|-------------------------------------|
| 1 | 1st and 2nd Shift Fork |
| 2 | 1st and 2nd Shift Shaft |
| 3 | Shift Fork Retaining Pin |
| 4 | Shift Shaft Assembly |
| 5 | 5th and Reverse Shift Rail Assembly |

Component Name

[Intermediate Case Installation](#)



Intermediate Case Installation

Callout

- | | |
|---|--|
| 1 | Shift Shaft Detent Ball |
| 2 | Shift Detent Ball Spring |
| | Shift Shaft Detent Plug |
| 3 | Caution: Refer to Fastener Caution. |
| | Tighten |
| | 13 Y (115 lb in) |
| 4 | Transmission Intermediate Case |
| 5 | Transmission Wiring Harness Bracket Assembly |
| 6 | Transmission Bracket |

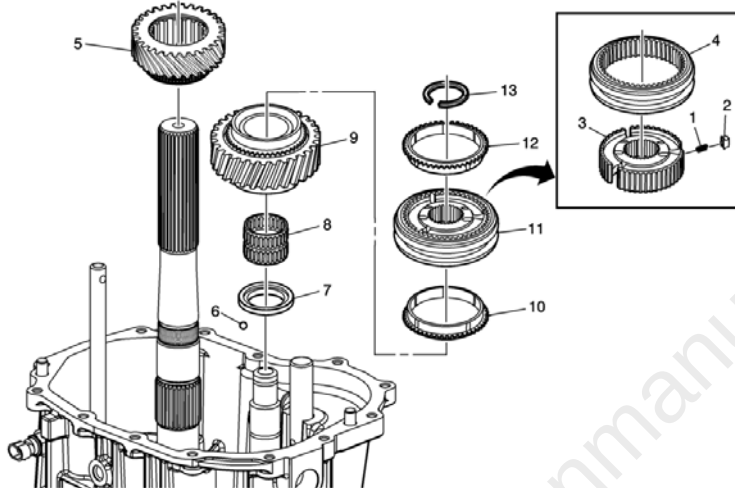
Component Name

Callout

Component Name

- 7 Transmission Case Bolt (Qty: 10)
Tighten
 22.5 Y (16.6 lb ft)
- 8 Transmission Intermediate Case Bolt (Qty: 3)
Tighten
 22.5 Y (16.6 lb ft)

5th Gear, and 5th Counter Gear Installation



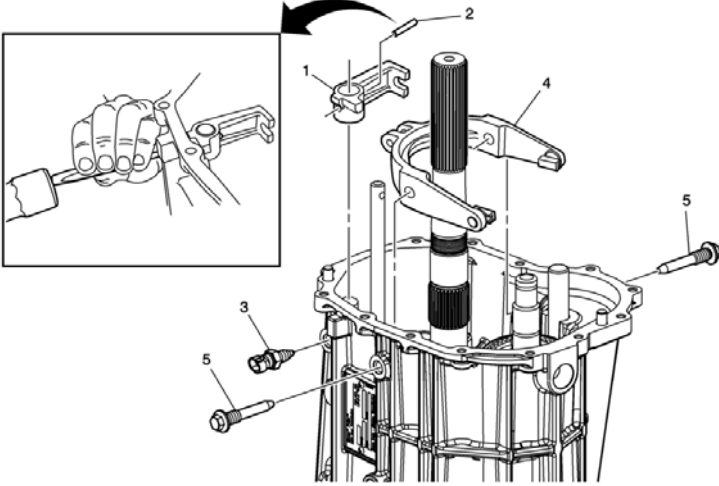
5th Gear, and 5th Counter Gear Installation

Callout

Component Name

- 1 5th and Reverse Gear Synchronizer Spring
- 2 5th and Reverse Gear Synchronizer Insert
- 3 5th and Reverse Gear Synchronizer Hub
- 4 5th and Reverse Gear Synchronizer Sleeve
- 5 5th Gear
- 6 5th Gear Thrust Washer Anti-Rotation Bail
- 7 Counter Gear Thrust Washer
- 8 Counter Gear Thrust Bearing Assembly
- 9 5th Counter Gear
- 10 5th Gear Blocking Ring
- 11 5th and Reverse Gear Synchronizer Hub and Sleeve
- 12 Reverse Gear Blocking Ring
- 13 5th and Reverse Gear Synchronizer Retaining Ring

5th and Reverse Shift Fork Installation



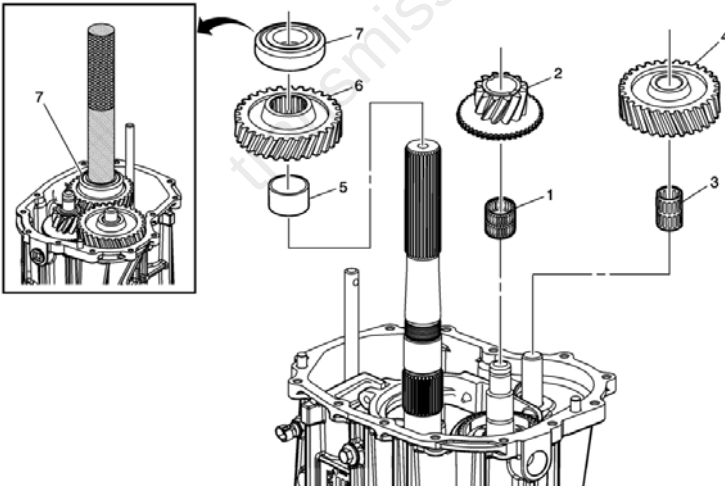
5th and Reverse Shift Fork Installation

Callout

Component Name

- 1 5th and Reverse Shift Link Lever
- 2 5th and Reverse Shift Fork Pin
Tip: Use a punch to install.
- 3 Park/Neutral Position and Backup Lamp Switch Assembly
- 4 5th and Reverse Shift Fork
- 5 Shift Fork Bolt (Qty: 2)
Tighten
17 Y (12.5 lb ft)
- 5 **Tighten**
22.5 Y (16.6 lb ft)

[Reverse Gear, 5th Gear Synchronizer and Reverse Gear Assembly, and Reverse Idler Gear Installation](#)



Reverse Gear, 5th Gear Synchronizer and Reverse Gear Assembly, and Reverse Idler Gear Installation

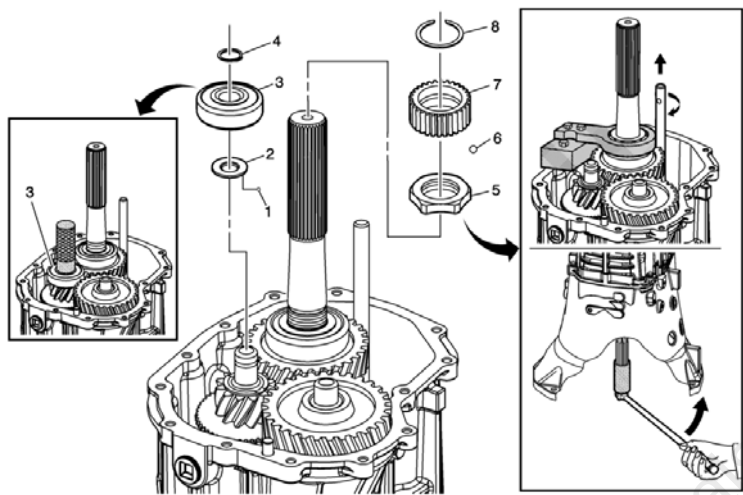
Callout

Component Name

- 1 Reverse Gear Bearing Assembly
- 2 5th Gear Synchronizer and Reverse Gear Assembly
- 3 Reverse Idler Gear Thrust Bearing Assembly
- 4 Reverse Idler Gear
- 5 Mainshaft Bushing

Callout	Component Name
6	Reverse Gear
	Mainshaft Bearing Assembly
7	Special Tools DT 50861 Bearing Cone Installer For equivalent regional tools, refer to Special Tools.

Mainshaft Nut and Front Counter Gear Rear Bearing Installation



Mainshaft Nut and Front Counter Gear Rear Bearing Installation

Callout	Component Name
1	Reverse Gear Thrust Washer Locating Ball
2	Reverse Gear Thrust Washer
	Front Counter Gear Rear Bearing Assembly
3	Special Tools DT 50860 Bearing Cone Installer For equivalent regional tools, refer to Special Tools.
4	Front Counter Gear Rear Bearing Retaining Ring
	Mainshaft Nut
	Procedure

- Attach *DT 50461* mainshaft lock wrench mounting block and *DT 50858* 54 mm special wrench to the intermediate case.
 - Place the transmission in first gear by rotating the shift shaft clockwise and towards the rear of the transmission.
 - Using *DT 50859* input shaft spline socket rotate the input shaft counterclockwise to tighten the mainshaft nut to the correct specification.
- Specification**
 V6-MYF, Diesel MYL/MYN: 54–66 Y (40–49 lb ft)
 4 cylinder MYG: 49–60 Y (36–44 lb ft)
- Use a punch to peen the mainshaft nut to the machine groove on the output shaft.

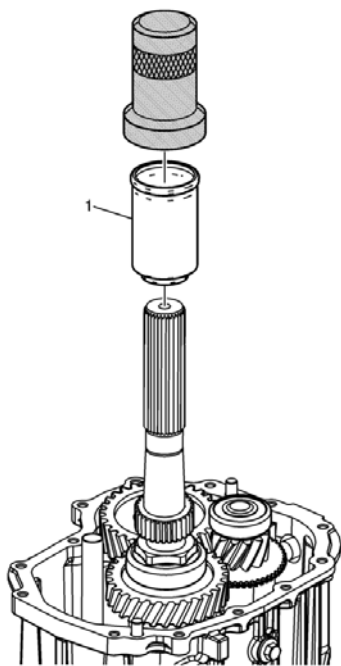
Special Tools

- DT 50858 54 mm Special Wrench
- DT 50859 Input Shaft Spline Socket
- DT 50461 Mainshaft Lock Wrench Mounting Block

For equivalent regional tools, refer to Special Tools.

6	Anti-Rotation Ball
7	Speed Sensor Rotor – 2WD
8	Mainshaft Retaining Ring – Speed Sensor Rotor – 2WD

Output Shaft Sleeve Installation



Output Shaft Sleeve Installation

Callout

Output Shaft Sleeve

Special Tools

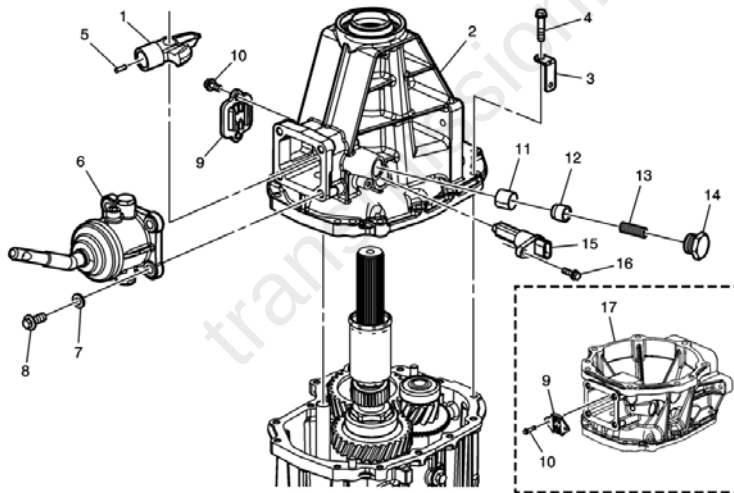
1

DT-0307994 Output Shaft Sleeve Installer

For equivalent regional tools, refer to Special Tools.

Component Name

[Rear Case and Shift Lever Housing Installation](#)



Rear Case and Shift Lever Housing Installation

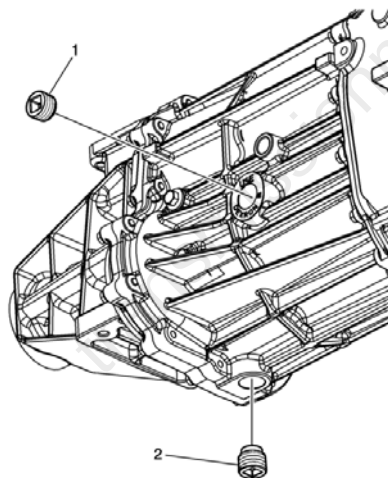
Callout

- | | |
|---|---|
| 1 | Shift Shaft Detent Lever |
| 2 | Transmission Rear Case Assembly – 2WD |
| 3 | Transmission Wiring Harness Bracket Assembly |
| 4 | Transmission Case Bolt |
| 5 | Shift Shaft Detent Pin Assembly |
| 6 | M/Trans Control Lever Housing Assembly |
| 7 | M/Trans Control Lever Housing Washer (Qty: 4) |

Component Name

Callout	Component Name
8	M/Trans Control Lever Housing Bolt (Qty: 4)
9	Shift Guide Detent Plate
10	Transmission Bolt
11	Shift Shaft Detent
12	Shift Shaft Detent Cam
13	Manual Shift Detent Lever Spring
14	Transmission Case Plug
15	Vehicle Speed Sensor
16	Transmission Case Bolt
17	Transmission Rear Case Assembly – 4WD

Drain and Fill Plug Installation



Drain and Fill Plug Installation

Callout	Component Name
1	Transmission Oil Fill Plug
2	Transmission Oil Drain Plug