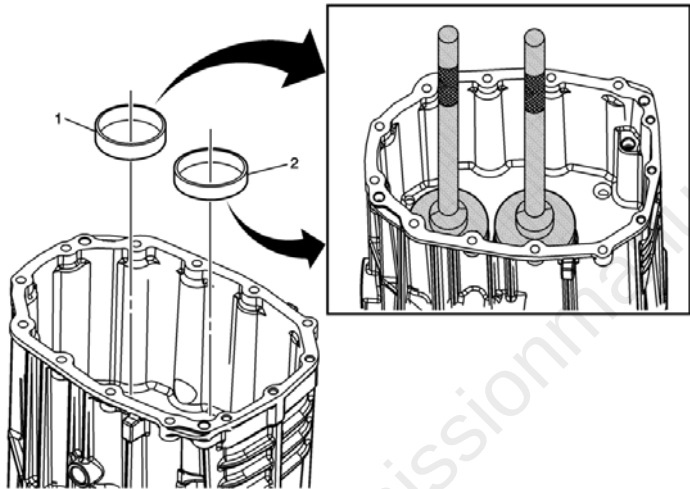


2013 Chevrolet Colorado

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

- Table 1: [Shim Measurement](#)
Table 2: [Install Mainshaft and Counter Shaft Assemblies](#)
Table 3: [Intermediate Case Installation](#)
Table 4: [Measure End Play to Determine Correct Shim](#)

Shim Measurement



Shim Measurement

Callout

Component Name

Preliminary Procedure

Do not install the shims – only the bearing races.

Mainshaft Bearing Race

Special Tools

1

- DT 50850 Driver Handle
- DT 50855 Mainshaft Bearing Race Installer

For equivalent regional tools, refer to Special Tools.

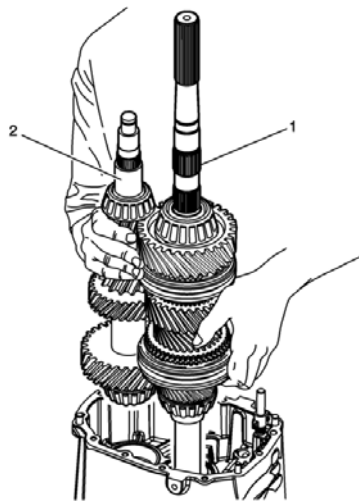
Counter Gear Rear Bearing Race

Special Tools

2

- DT 50850 Driver Handle
- DT 50855 Mainshaft Bearing Race Installer

For equivalent regional tools, refer to Special Tools.



Install Mainshaft and Counter Shaft Assemblies

Callout

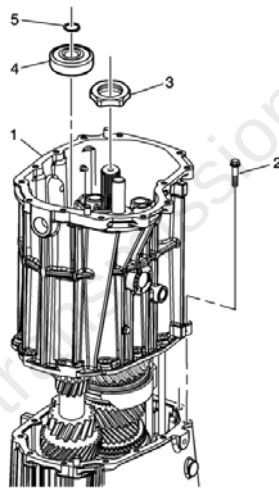
Component Name

Preliminary Procedure

Install the mainshaft and counter gear shaft assemblies as one unit.

- 1 Mainshaft Assembly
- 2 Counter Gear Shaft Assembly

[Intermediate Case Installation](#)



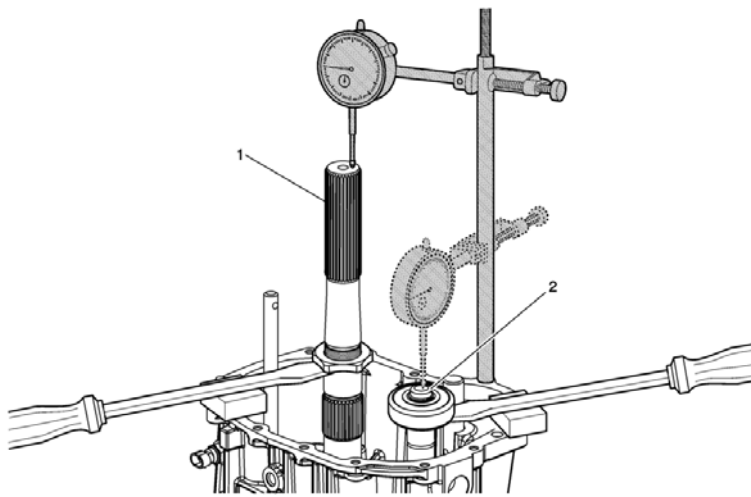
Intermediate Case Installation

Callout

Component Name

- 1 Transmission Intermediate Case
- Transmission Rear Case Bolt (Qty: 10)
- 2 **Tighten**
Tighten bolt to 22.5 Y (16.6 lb ft)
- Mainshaft Nut
- 3 **Procedure**
Only install the nut onto the shaft 2 or 3 threads.
- 4 Front Counter Gear Rear Bearing
- 5 Front Counter Gear Rear Bearing Retaining Ring.

[Measure End Play to Determine Correct Shim](#)



Measure End Play to Determine Correct Shim

Callout

Component Name

Preliminary Procedure

Rotate the mainshaft and counter gear shaft several times in both directions to ensure the bearings are seated into the bearing races.

Mainshaft

Procedure

1. Set up *GE 8001* dial indicator with *GE 25025-B* post and guide set, and zero out on top of the mainshaft.
2. Place a block of wood between the case and a pry bar.
3. Pry straight up on the mainshaft nut and record the measurement. Select appropriate shims to achieve the following specification.

Specification
0.060 mm–0.110 mm (0.002–0.004 in)

Special Tools

- *GE 25025-B* Dial Indicator Post and Guide Pin Set
- *GE 8001* Dial Indicator

For equivalent regional tools, refer to Special Tools.

Counter Gear Shaft

Procedure

1. Set up *GE 8001* dial indicator with *GE 25025-B* post and guide set, and zero out on top of the mainshaft.
2. Place a block of wood between the case and a pry bar.
3. Pry straight up on the front counter gear rear bearing and record the measurement. Select appropriate shims to achieve the following specification.

Specification
0.060 mm–0.110 mm (0.002–0.004 in)

4. Remove the mainshaft, counter gear shaft and intermediate case.
5. Install the specified shims, refer to *Mainshaft Bearing and Counter Gear Bearing Race Installation*.

Special Tools

- *GE 25025-B* Dial Indicator Post and Guide Pin Set
- *GE 8001* Dial Indicator

For equivalent regional tools, refer to Special Tools.