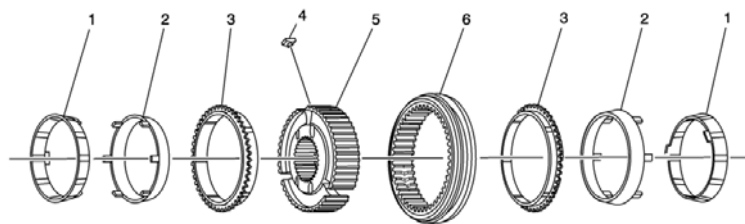


2013 Chevrolet Colorado

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

- Table 1: [1st and 2nd Gear Synchronizer Components](#)
Table 2: [3rd and 4th Gear Synchronizer Components](#)
Table 3: [5th and Reverse Gear Synchronizer Components](#)

1st and 2nd Gear Synchronizer Components



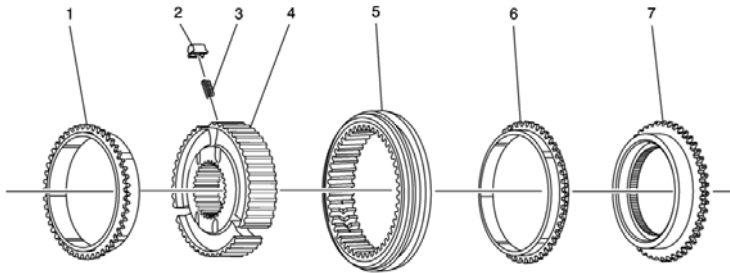
1st and 2nd Gear Synchronizer Components

Callout	Component Name
Preliminary Procedures	
- When you service the synchronizers, retain them in the order that they are removed. Mark the parts to ensure the correct position for inspection and assembly. - Clean all the synchronizer parts in a suitable solvent. Air dry all the synchronizer parts. - Inspect the synchronizer parts for the following conditions: - Burrs - Cracks - Hicks - Chamfer for excessive wear - Free movement for the clutching sleeves on their hubs - Worn or damaged clutch teeth - Distorted teeth - Warping - Worn grooves - Wear on external splines - When repairing synchronizer assemblies, do not replace a single part only. Always replace the assembly. If it would be necessary to replace one synchronizer ring, always replace the synchronizer ring set. - Correct the cause, such as, but not limited to the following conditions: - Engine related vibrations - Driving at a low speed in a high gear - Defective vibration damper or crankshaft	
1	1st Gear Synchronizer Inner Cone
2	1st Gear Synchronizer Outer Cone
3	1st and 2nd Gear Blocking Ring Assembly
4	1st and 2nd Gear Synchronizer Insert
5	1st and 2nd Gear Synchronizer Hub

Callout**Component Name**

6

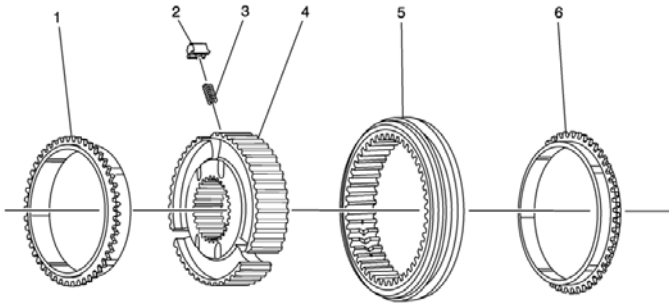
1st and 2nd Gear Synchronizer Sleeve

[3rd and 4th Gear Synchronizer Components](#)**3rd and 4th Gear Synchronizer Components****Callout****Component Name****Preliminary Procedures**

1. When you service the synchronizers, retain them in the order that they are removed. Mark the parts to ensure the correct position for inspection and assembly.
2. Clean all the synchronizer parts in a suitable solvent. Air dry all the synchronizer parts.
3. Inspect the synchronizer parts for the following conditions:
 - Burrs
 - Cracks
 - Hicks
 - Chamfer for excessive wear
 - Free movement for the clutching sleeves on their hubs
 - Worn or damaged clutch teeth
 - Distorted teeth
 - Warping
 - Worn grooves
 - Wear on external splines
- When repairing synchronizer assemblies, do not replace a single part only. Always replace the assembly. If it would be necessary to replace one synchronizer ring, always replace the synchronizer ring set.
- Correct the cause, such as, but not limited to the following conditions:
 - Engine related vibrations
 - Driving at a low speed in a high gear
 - Defective vibration damper or crankshaft

- | | |
|---|--------------------------------------|
| 1 | 4th Gear Synchronizer Ring |
| 2 | 3rd and 4th Gear Synchronizer Insert |
| 3 | 3rd and 4th Gear Synchronizer Spring |
| 4 | 3rd and 4th Gear Synchronizer Hub |
| 5 | 3rd and 4th Gear Synchronizer Sleeve |
| 6 | 3rd Gear Synchronizer Ring |
| 7 | 3rd Gear Synchronizer Cone |

[5th and Reverse Gear Synchronizer Components](#)



5th and Reverse Gear Synchronizer Components

Callout

Component Name

Preliminary Procedures

1. When you service the synchronizers, retain them in the order that they are removed. Mark the parts to ensure the correct position for inspection and assembly.
2. Clean all the synchronizer parts in a suitable solvent. Air dry all the synchronizer parts.
3. Inspect the synchronizer parts for the following conditions:
 - Burrs
 - Cracks
 - Hicks
 - Chamfer for excessive wear
 - Free movement for the clutching sleeves on their hubs
 - Worn or damaged clutch teeth
 - Distorted teeth
 - Warping
 - Worn grooves
 - Wear on external splines
- When repairing synchronizer assemblies, do not replace a single part only. Always replace the assembly. If it would be necessary to replace one synchronizer ring, always replace the synchronizer ring set.
- Correct the cause, such as, but not limited to the following conditions:
 - Engine related vibrations
 - Driving at a low speed in a high gear
 - Defective vibration damper or crankshaft

- | | |
|---|--|
| 1 | 5th Gear Blocking Ring |
| 2 | 5th and Reverse Gear Synchronizer Insert |
| 3 | 5th and Reverse Gear Synchronizer Spring |
| 4 | 5th and Reverse Gear Synchronizer Hub |
| 5 | 5th and Reverse Gear Synchronizer Sleeve |
| 6 | Reverse Gear Blocking Ring |