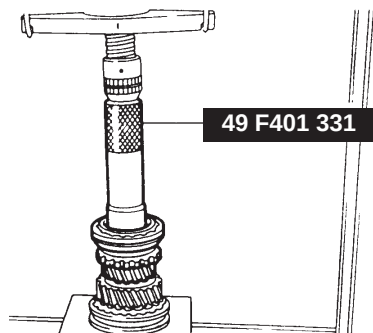


3rd/4th Clutch Hub Component Assembly Note

- Set the needle bearing, 3rd gear, 3rd synchronizer ring, and the 3rd/4th clutch hub component on the mainshaft. Press the parts onto the mainshaft by using the **SST**, while keeping the parts from becoming crooked or misaligned.



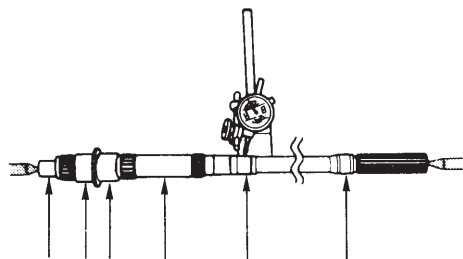
MANUAL TRANSMISSION INSPECTION

Mainshaft Inspection

- Measure the mainshaft runout.

Runout

0.03 mm {0.0012 in} max.



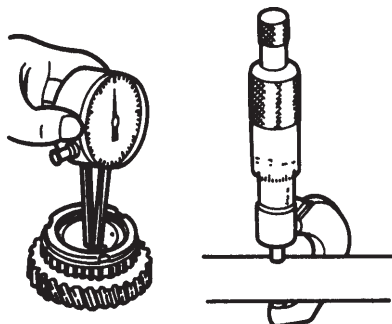
- If not as specified, replace the mainshaft.

Gear (Bushing) Inspection

- Measure the clearance between mainshaft and gear (or bushing).

Clearance

0.15 mm {0.006 in} max.



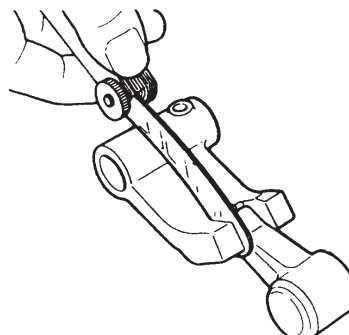
- If not as specified, replace the gear.

Control Rod Lever and Shift Rod Inspection

- Measure the clearance between the control rod lever and the shift rod gate.

Clearance

0.8 mm {0.031 in} max.



- If not as specified, replace the control rod lever and shift rod.

Shift Fork and Clutch Hub Sleeve Inspection

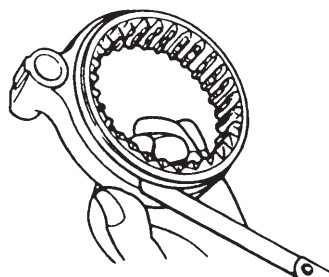
- Measure the clearance between the hub sleeve groove and shift fork.

Clearance

0.2—0.3 mm {0.008—0.012 in}

Maximum

0.5 mm {0.020 in}



- If not as specified, replace the shift fork and clutch hub sleeve.

Synchronizer Ring Inspection

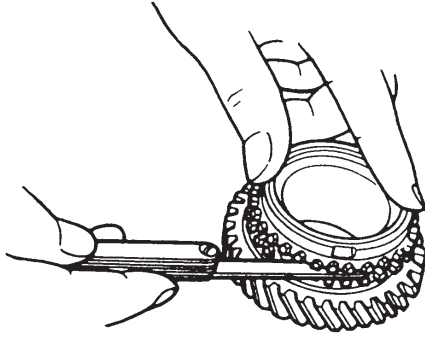
- Inspect the following, and replace the synchronizer ring as necessary.
 - Individual synchronizer ring teeth for wear and cracks.
 - The tapered surface for wear and cracks.
- Set the synchronizer ring squarely in the gear.
- Measure the clearance between the synchronizer ring and flank surface of gear all around the circumference.

Standard clearance

1.5 mm {0.059 in}

Minimum

0.8 mm {0.031 in}



4. If not as specified, replace the synchronizer ring.

2nd Synchronizer Component Inspection

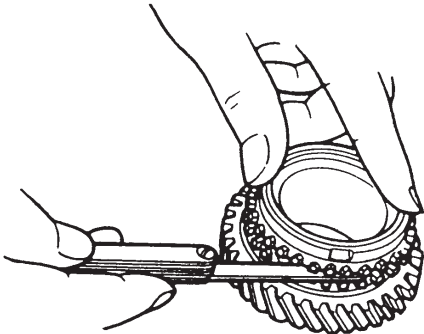
1. Inspect individual synchronizer ring gear teeth for damage, wear, and cracks. Replace the synchronizer component if any such damage is found.
2. Inspect for wear and damage to the tapered surfaces of the inner cone, double cone and synchronizer ring. Replace the synchronizer component if any such damage is found.
3. Set the synchronizer component squarely in the gear.
4. Measure the clearance between the synchronizer ring and flank surface of the gear.

Clearance

1.5 mm {0.059 in}

Maximum

0.8 mm {0.013 in}



5. If not as specified, replace the 2nd synchronizer component.

Reverse Idler Gear and Shaft Inspection

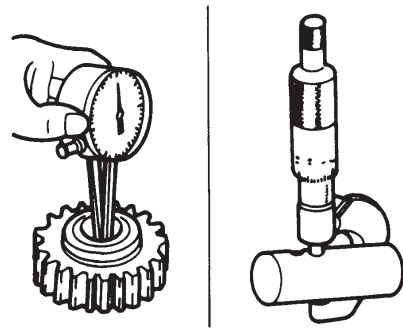
1. Measure the clearance between the reverse idler gear bushing and shaft.

Clearance

0.02—0.05 mm {0.0008—0.0020 in}

Maximum

0.15 mm {0.006 in}



2. If not as specified, replace the reverse idler gear and shaft.