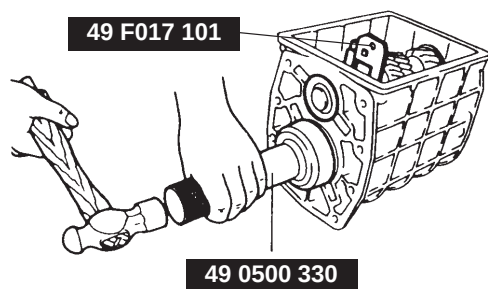


MANUAL TRANSMISSION

2. Install the main drive gear bearing by using the SSTs.

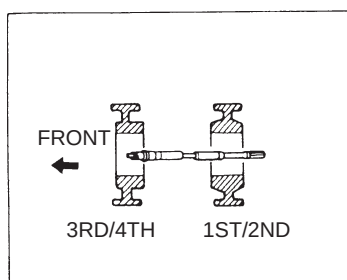


MAINSHAFT AND COUNTER SHAFT COMPONENTS DISASSEMBLY/ASSEMBLY

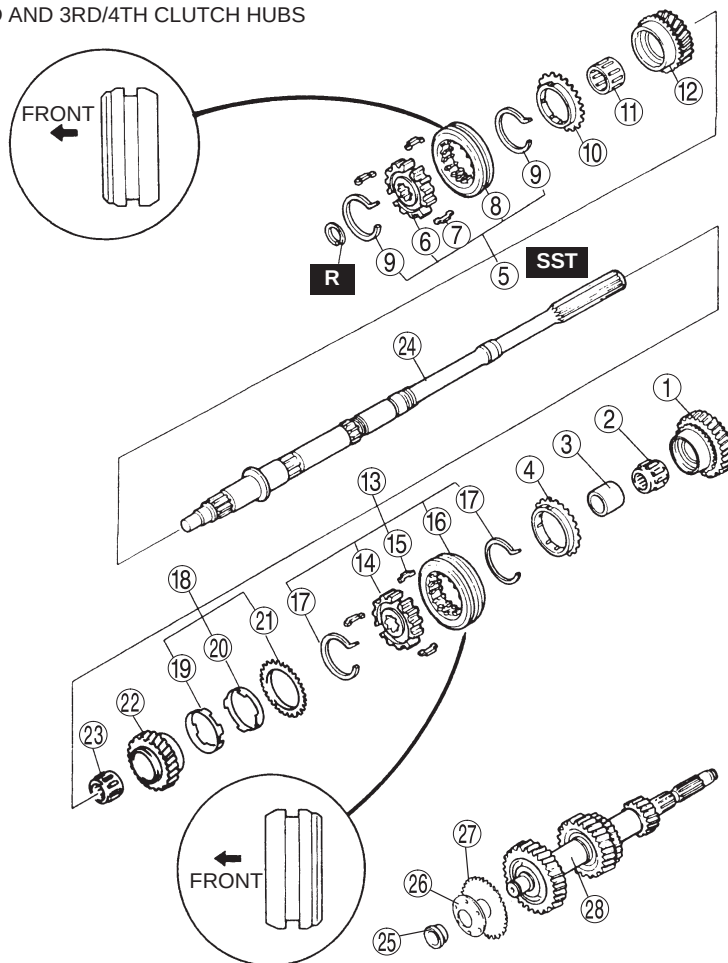
1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



APPLY SPECIFIED OIL TO INDIVIDUAL PARTS



1ST/2ND AND 3RD/4TH CLUTCH HUBS

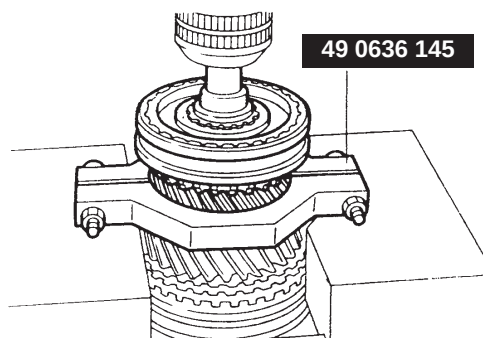


MANUAL TRANSMISSION

1	1st gear
2	Bearing
3	Bearing race
4	1st synchronizer ring
5	3rd/4th clutch hub component + Disassembly Note + Assembly Note
6	3rd/4th clutch hub
7	Synchronizer key
8	Clutch hub sleeve
9	Synchronizer key spring
10	3rd synchronizer ring
11	Bearing
12	3rd gear
13	1st/2nd clutch hub component + Disassembly Note + Assembly Note
14	1st/2nd clutch hub
15	Synchronizer key
16	Clutch hub sleeve
17	Synchronizer key spring
18	2nd synchronizer component + Assembly Note
19	Inner cone
20	Double cone
21	Synchronizer ring
22	2nd gear
23	Bearing
24	Mainshaft
25	Counter shaft front bearing spacer + Assembly Note
26	Diaphragm spring
27	Friction gear
28	Counter shaft

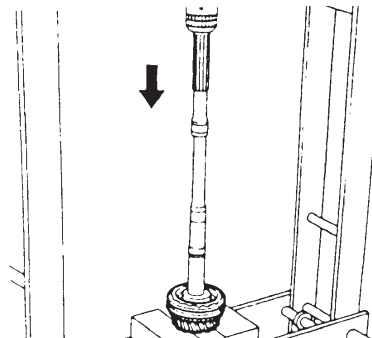
3rd/4th Clutch Hub Component Disassembly Note

1. Remove the snap ring from the front of the mainshaft.
2. Position the **SST** between 2nd and 3rd gears, and hold the mainshaft from underneath.
3. Press the mainshaft out from the 3rd gear, 3rd synchronizer ring, and the 3rd/4th clutch hub component.



1st/2nd Clutch Hub Component Disassembly Note

- Hold the mainshaft, and press the 1st/2nd clutch hub component, 2nd synchronizer ring component, and 2nd gear from the mainshaft.

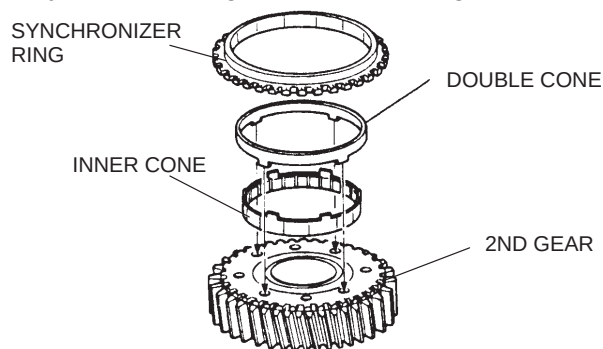


Counter Shaft Front Bearing Spacer Assembly Note

- Install the counter shaft front bearing spacer. If the counter shaft front bearing or counter shaft front bearing spacer is being replaced, replace them as a component.

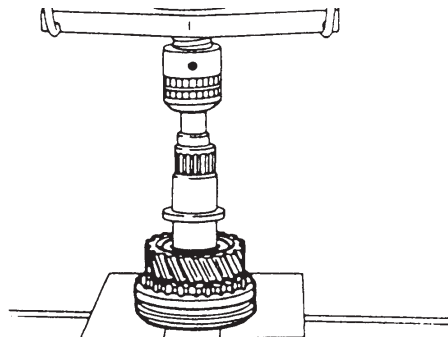
2nd Synchronizer Component Assembly Note

- Install the inner cone, double cone, and synchronizer ring as shown in the figure.



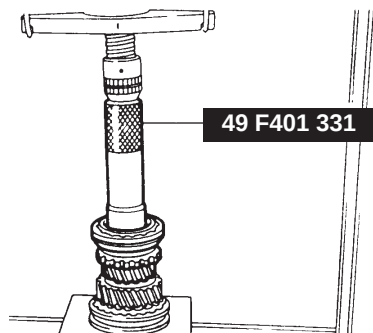
1st/2nd Clutch Hub Component Assembly Note

- Set the needle bearing, 2nd gear, 2nd synchronizer component, and the 1st/2nd clutch hub component on the mainshaft. Press the parts onto the mainshaft while keeping the parts from becoming crooked or misaligned.



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.



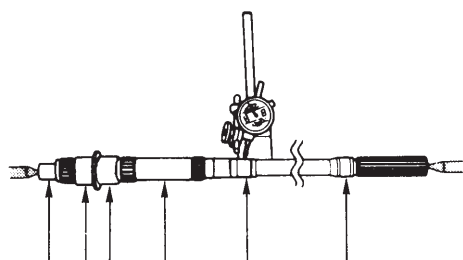
MANUAL TRANSMISSION INSPECTION

Mainshaft Inspection

- Measure the mainshaft runout.

Runout

0.03 mm {0.0012 in} max.



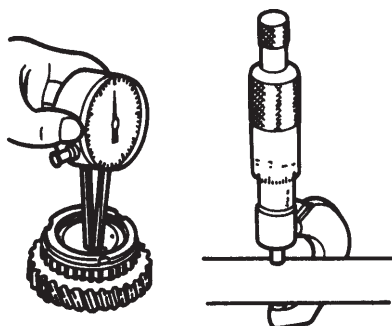
- If not as specified, replace the mainshaft.

Gear (Bushing) Inspection

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

Clearance

0.15 mm {0.006 in} max.



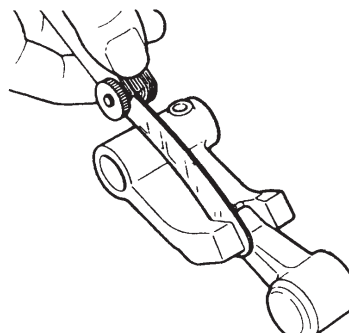
- If not as specified, replace the gear.

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

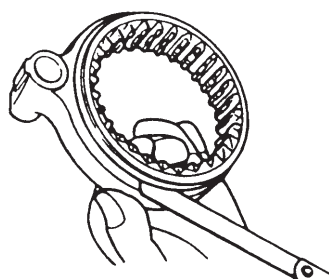
- Measure the clearance between the hub sleeve groove and shift fork.

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}