

DISASSEMBLY

1. INSPECT EACH GEAR THRUST CLEARANCE

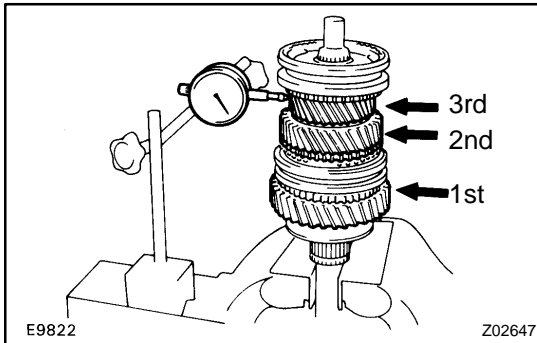
Using a feeler gauge, measure the thrust clearance of each gear.

Standard clearance:

0.10 - 0.25 mm (0.0039 - 0.0098 in.)

Maximum clearance:

0.25 mm (0.0098 in.)



2. INSPECT EACH GEAR RADIAL CLEARANCE

Using a dial indicator, measure the radial clearance of each gear.

Standard clearance:

1st and 2nd gears:

0.009 - 0.060 mm (0.0004 - 0.0024 in.)

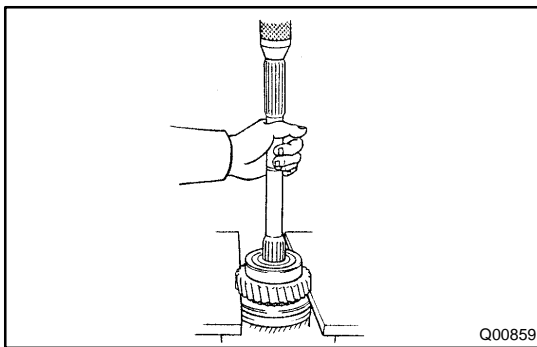
3rd gear: 0.015 - 0.066 mm (0.0006 - 0.0026 in.)

Maximum clearance:

1st and 2nd gears: 0.060 mm (0.0024 in.)

3rd gear: 0.066 mm (0.0026 in.)

If the clearance exceeds the maximum, replace the gear, shaft or needle roller bearing.

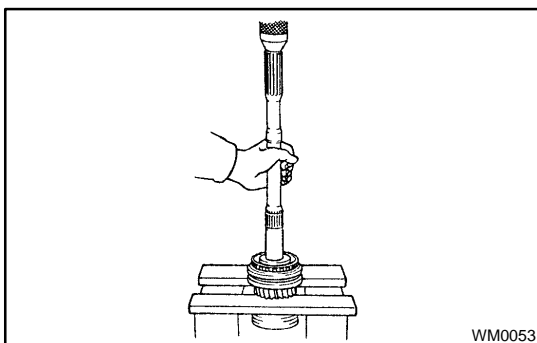


3. REMOVE OUTPUT SHAFT CENTER BEARING AND 1ST GEAR ASSEMBLY

- Shift the No. 1 hub sleeve onto the 2nd gear.
- Using a press, remove the center bearing, 1st gear, needle roller bearing, inner race and synchronizer ring.

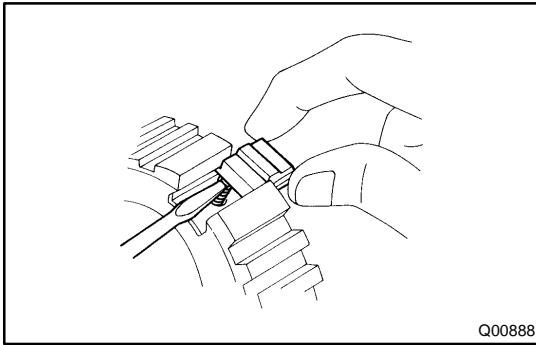
4. REMOVE LOCKING BALL ON OUTPUT SHAFT

Using a magnetic finger, remove the locking ball.



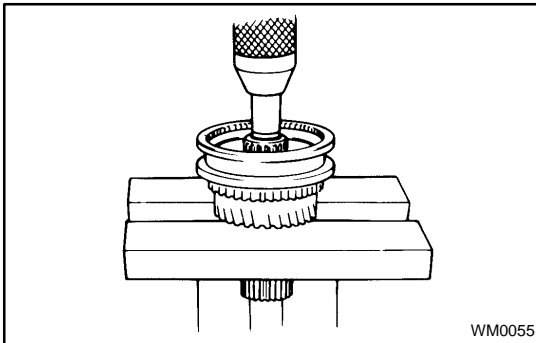
5. REMOVE NO. 1 HUB SLEEVE ASSEMBLY, 2ND GEAR AND NEEDLE ROLLER BEARING

Using a press, remove the parts from the shaft as an assembly.



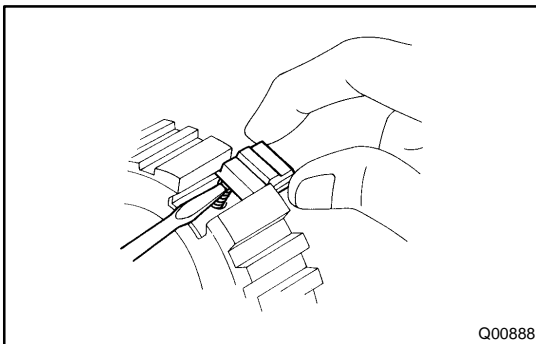
6. REMOVE NO. 1 HUB SLEEVE, SHIFTING KEY AND SPRING FROM NO. 1 CLUTCH HUB

- (a) Remove the No. 1 hub sleeve from the No. 1 clutch hub.
- (b) Push the shifting key spring with a screwdriver, remove the 3 shifting keys and key springs.



7. REMOVE NO. 2 HUB SLEEVE ASSEMBLY AND 3RD GEAR

- (a) Using a snap ring expander, remove the snap ring.
- (b) Using a press, remove the No. 2 hub sleeve, synchronizer ring and 3rd gear.



8. REMOVE NO. 2 HUB SLEEVE, SHIFTING KEY AND SPRING FROM NO. 2 CLUTCH HUB

- (a) Remove the No. 2 hub sleeve from the No. 2 clutch hub.
- (b) Push the shifting key spring with a screwdriver, remove the 3 shifting keys and key springs.