

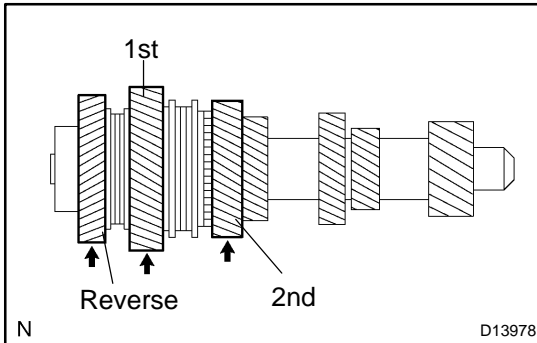
## DISASSEMBLY

### 1. INSPECT EACH GEAR THRUST CLEARANCE

Using a dial indicator, measure the clearance between the gear and the shaft.

**Standard gear thrust clearance:**

Gear	Thrust Clearance mm (in.)
1st and 2nd	0.10 to 0.43 (0.0039 to 0.0169)
Reverse	0.12 to 0.37 (0.0047 to 0.0146)



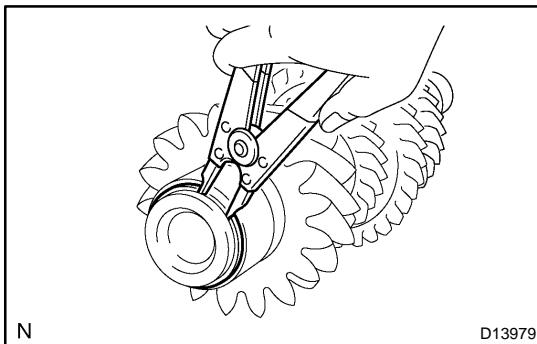
### 2. INSPECT EACH GEAR RADIAL CLEARANCE

Using a dial indicator, measure the clearance between the gear and the shaft with the needle roller bearing installed.

**Standard gear radial clearance:**

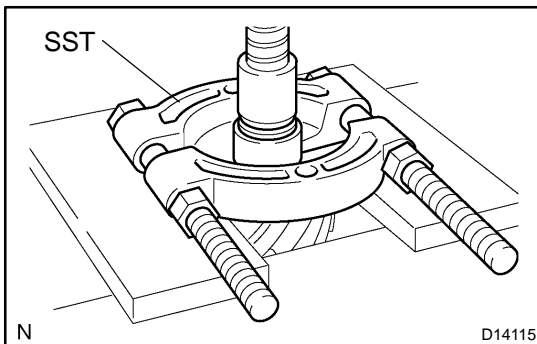
Gear	Radial Clearance mm (in.)
1st and 2nd	0.015 to 0.067 (0.00059 to 0.00264)
Reverse	0.015 to 0.065 (0.00059 to 0.00256)

If necessary, replace the gear, needle roller bearing or shaft.



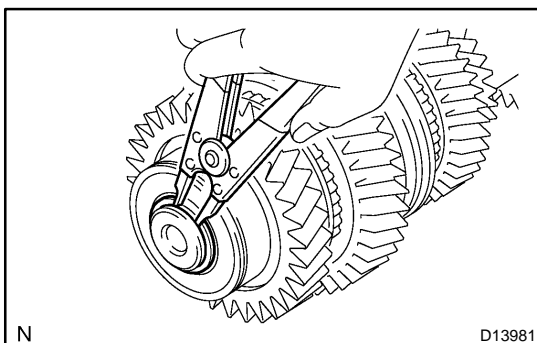
### 3. REMOVE NEEDLE ROLLER BEARING INNER RACE

(a) Using a snap ring expander, remove the snap ring.



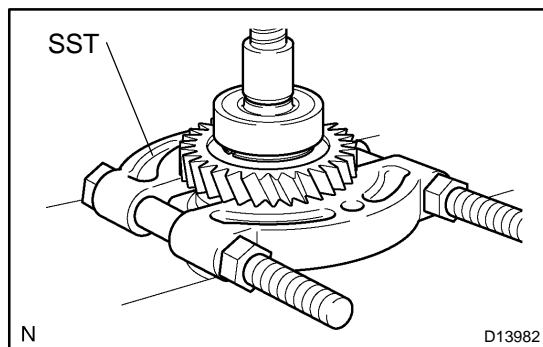
(b) Using SST and a press, remove the needle roller bearing inner race.

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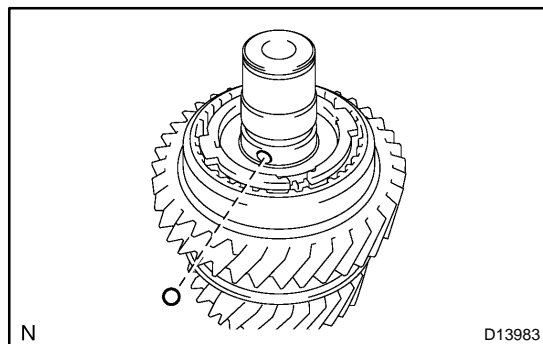


### 4. REMOVE REVERSE GEAR

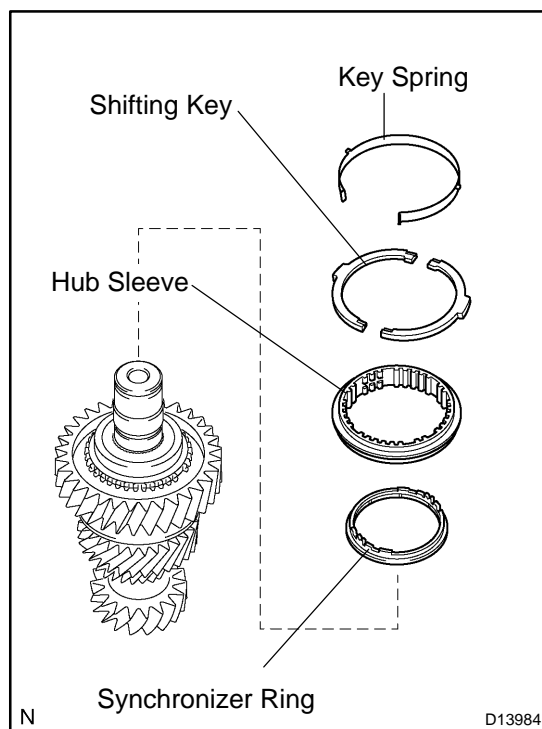
(a) Using a snap ring expander, remove the snap ring.



- (b) Using SST and a press, remove the counter gear shaft bearing, reverse gear bearing inner race, needle roller bearing and reverse gear.  
SST 09950-00020

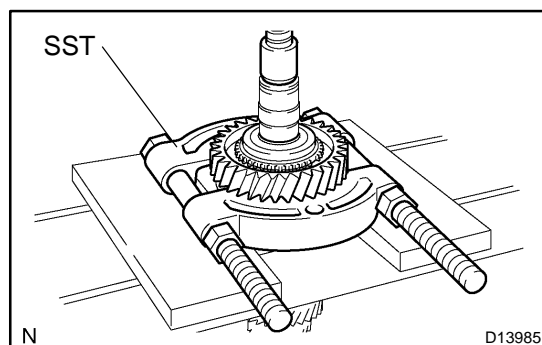


- (c) Remove the ball from the counter shaft.



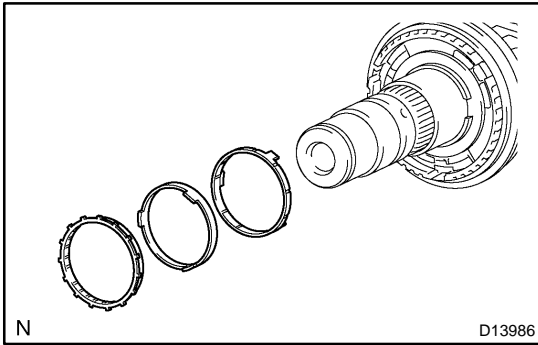
## 5. REMOVE HUB SLEEVE

Remove the hub sleeve, 2 shifting keys, key spring and reverse synchronizer ring from the reverse gear spline.

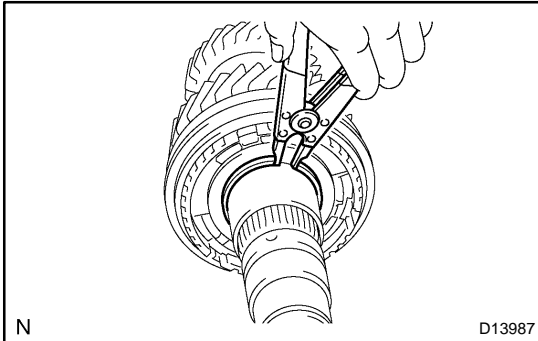


## 6. REMOVE 1ST GEAR

- (a) Using SST and a press, remove the reverse gear spline and 1st gear.  
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- (b) Remove the needle roller bearing.

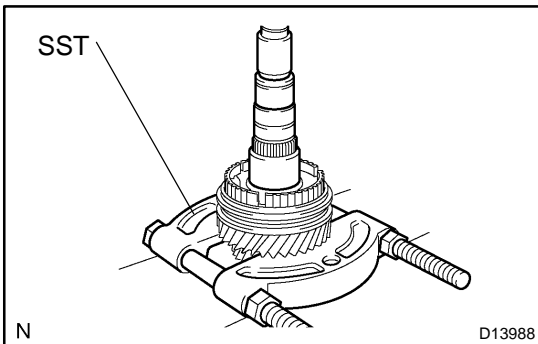


- (c) Remove the synchronizer ring set No.1.



## 7. REMOVE 2ND GEAR

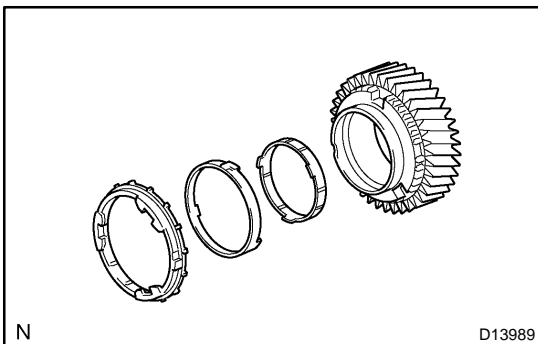
- (a) Using a snap ring expander, remove the snap ring.



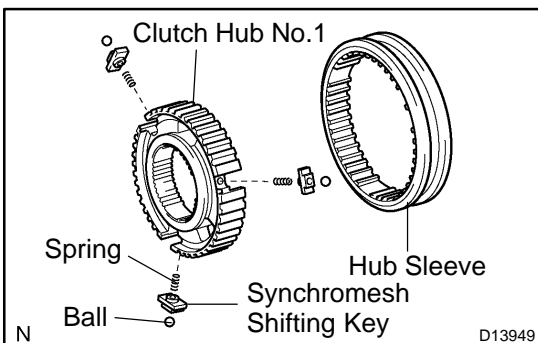
- (b) Using SST and a press, remove the clutch hub No.1 and 2nd gear.

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- (c) Remove the needle roller bearing.



- (d) Remove the synchronizer ring set No.1 from the 2nd gear.



## 8. DISASSEMBLE CLUTCH HUB NO.1

Remove the hub sleeve, 3 synchromesh shifting keys, 3 balls and 3 springs from the clutch hub No.1.

HINT:

Be careful not to scatter the balls or springs.