

## DISASSEMBLY

### 1. INSPECT EACH GEAR THRUST CLEARANCE

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

**Standard clearance:**

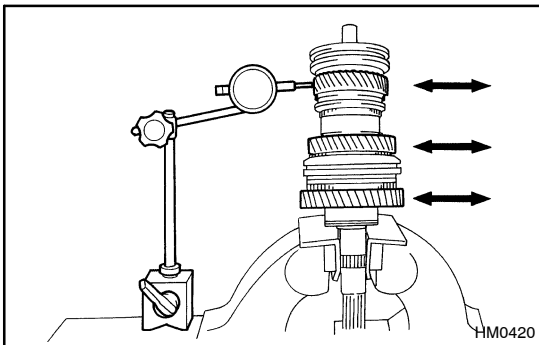
**1st and 3rd gears:** 0.10–0.45 mm (0.0039 –0.0177 in.)

**2nd and 5th gears:** 0.10–0.35 mm (0.0039 –0.0138 in.)

**Maximum clearance:**

**1st and 3rd gears:** 0.45 mm (0.0177 in.)

**2nd and 5th gears:** 0.35 mm (0.0138 in.)



### 2. INSPECT EACH GEAR RADIAL CLEARANCE

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

**Standard clearance:**

**1st and 3rd gears:**

0.020–0.073 mm (0.0008 –0.0029 in.)

**2nd and 5th gears:**

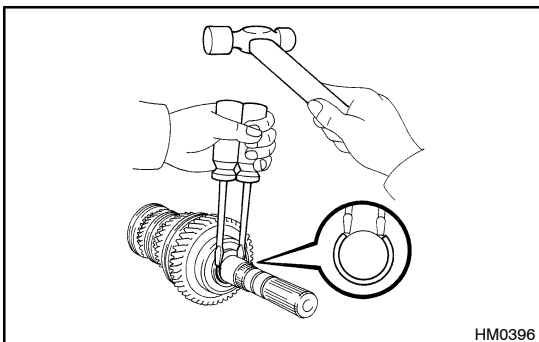
0.015–0.068 mm (0.0006 –0.0027 in.)

**Maximum clearance:**

**1st and 3rd gears:** 0.073 mm (0.0029 in.)

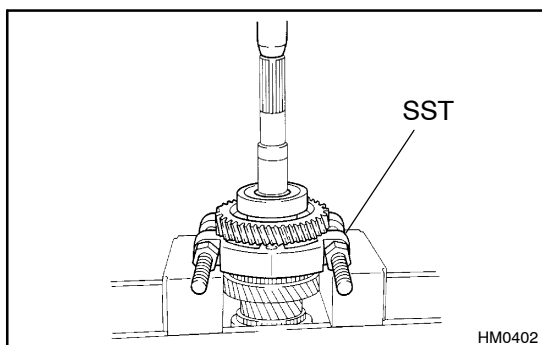
**2nd and 5th gears:** 0.068 mm (0.0027 in.)

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

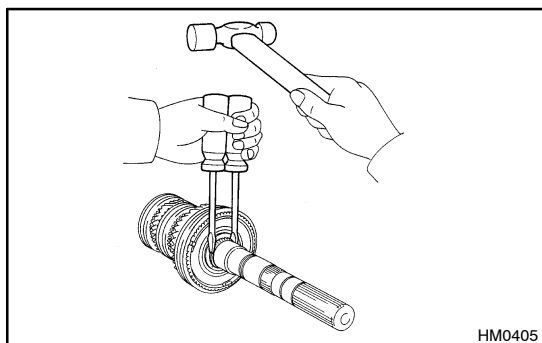


### 3. REMOVE BALL BEARING, NEEDLE ROLLER BEARING, 1ST GEAR AND SYNCHRONIZER RING

- (a) Using 2 screwdrivers and a hammer, drive out the snap ring.
- (b) Shift the hub sleeve No.1 onto the 2nd gear.

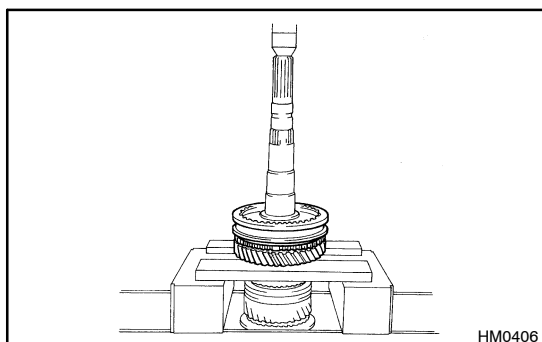


- (c) Using SST and a press, remove the ball bearing, 1st gear and synchronizer ring.  
SST 09555 -55010
- (d) Remove the needle roller bearing and synchronizer rings.

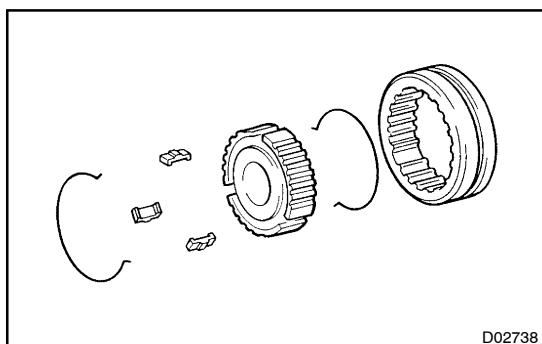


#### 4. REMOVE HUB SLEEVE NO. 1 ASSEMBLY, SYNCHRONIZER RING, 2ND GEAR AND NEEDLE ROLLER BEARING

- (a) Using 2 screwdrivers and a hammer, drive out the snap ring.

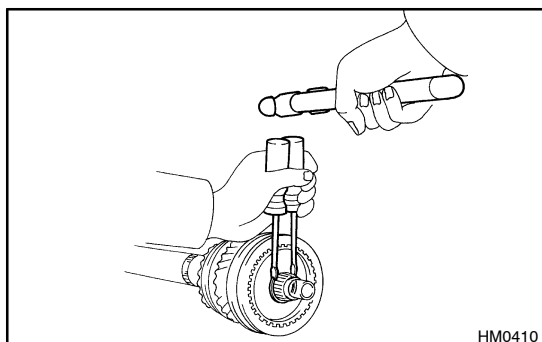


- (b) Using a press, remove the hub sleeve No.1 assembly, synchronizer rings, and 2nd gear.
- (c) Remove the needle roller bearing.



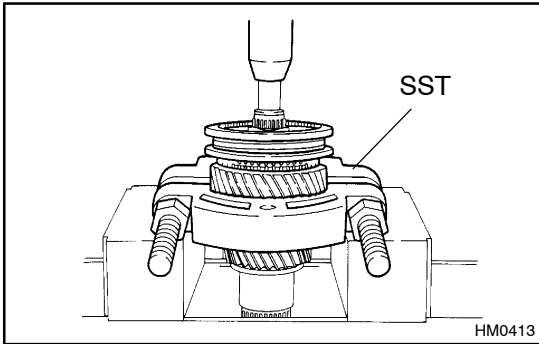
#### 5. REMOVE HUB SLEEVE NO. 1, SHIFTING KEY AND SPRING FROM CLUTCH HUB NO. 1

Using a screwdriver, remove the 3 shifting keys and 2 springs from the clutch hub No.1.

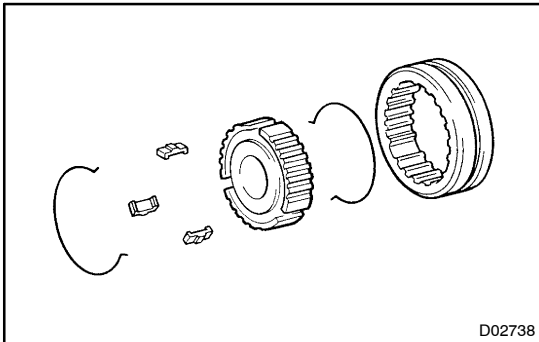


#### 6. REMOVE HUB SLEEVE NO. 2 ASSEMBLY, SYNCHRONIZER RING, 3RD GEAR AND NEEDLE ROLLER BEARING

- (a) Using 2 screwdrivers and a hammer, drive out the snap ring.
- (b) Shift the hub sleeve No.3 onto the 5th gear.

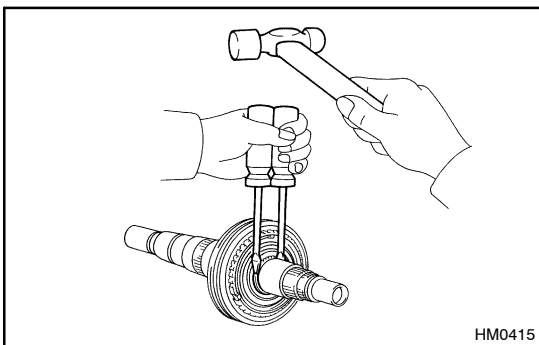


- (c) Using SST and a press, remove the hub sleeve No.2 assembly, synchronizer rings and 3rd gear.  
SST 09555 -55010
- (d) Remove the needle roller bearing.



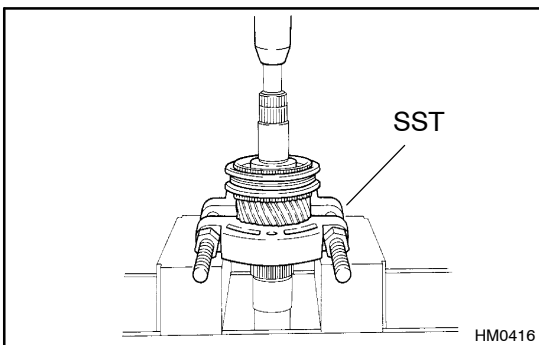
## 7. REMOVE HUB SLEEVE NO.2, SHIFTING KEY AND SPRING FROM CLUTCH HUB NO.2

Using a screwdriver, remove the 3 shifting keys and 2 springs from the clutch hub No.2.

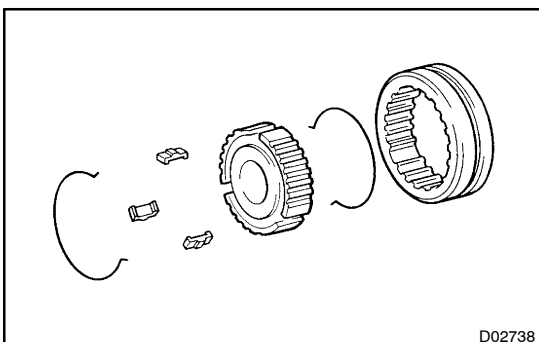


## 8. REMOVE HUB SLEEVE NO.3 ASSEMBLY, SYNCHRONIZER RING, 5TH GEAR AND NEEDLE ROLLER BEARING

- (a) Using 2 screwdrivers and a hammer, drive out the snap ring.



- (b) Using SST and a press, remove the hub sleeve No.3 assembly, synchronizer ring and 5th gear.  
SST 09555 -55010
- (c) Remove the needle roller bearing.



## 9. REMOVE HUB SLEEVE NO.3 SHIFTING KEY AND SPRING FROM CLUTCH HUB NO.3

Using a screwdriver, remove the 3 shifting keys and 2 springs from the clutch hub No.3.