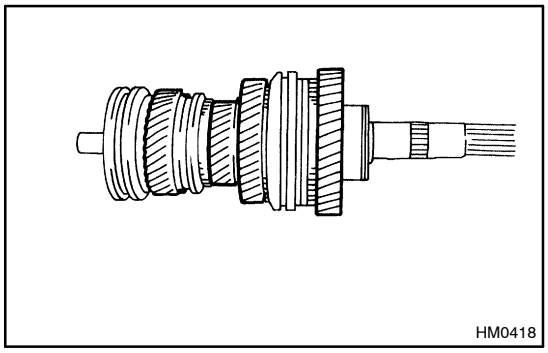
MT0AY–01

DISASSEMBLY

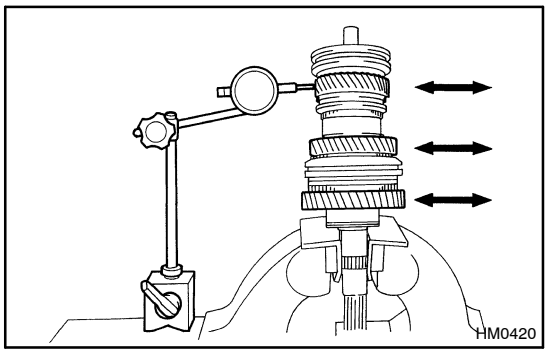
HINT:
When placing a part in a vice, be sure to use a cloth or something similar.


HM0418

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.)

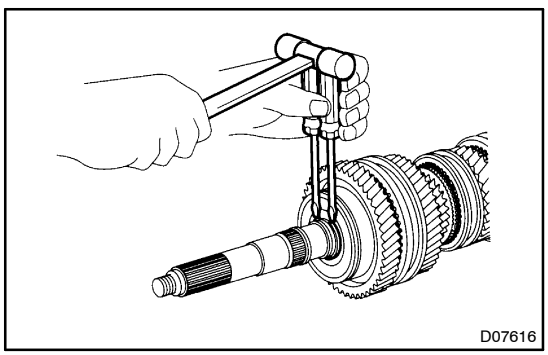

HM0420

2. INSPECT EACH GEAR RADIAL CLEARANCE

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

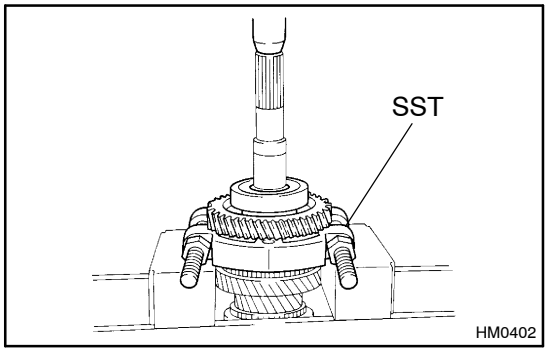
Standard clearance:
1st and 3rd gears:
0.020 – 0.073 mm (0.0008 – 0.0029 in.)
2nd and 5th gears:
0.015 – 0.068 mm (0.0006 – 0.0027 in.)
Maximum clearance:
1st and 3rd gears: 0.073 mm (0.0029 in.)
2nd and 5th gears: 0.068 mm (0.0027 in.)

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

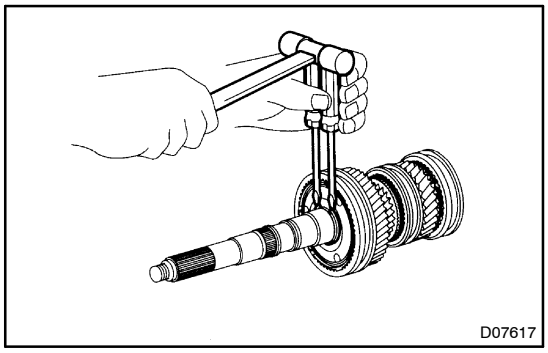

D07616

3. REMOVE OUTPUT SHAFT CENTER 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.

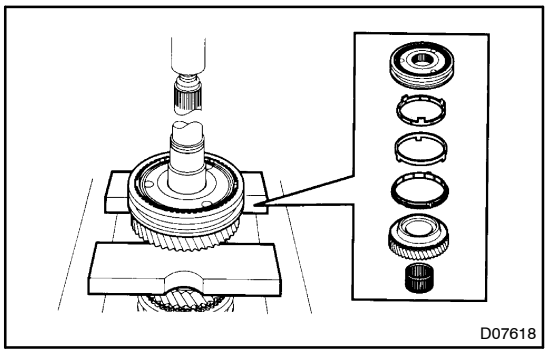


(c) Using SST and a press, remove the output shaft center bearing, 1st gear and synchronizer ring set No. 1.
SST 09555–55010

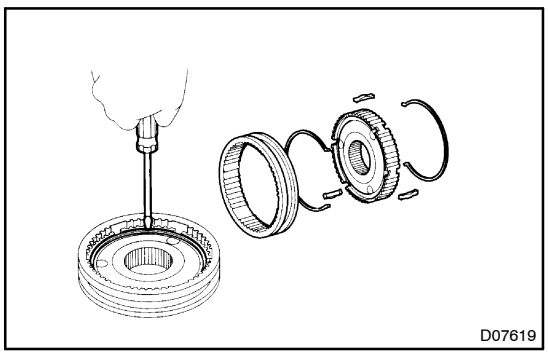


4. REMOVE HUB SLEEVE NO. 1 ASSEMBLY, SYNCHRONIZER RING SET NO. 2, 2ND GEAR AND NEEDLE ROLLER BEARING

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

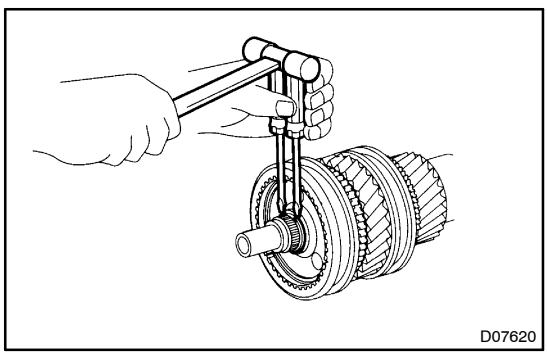


(b) Using a press, remove the hub sleeve No. 1 assembly, synchronizer rings No. 2 and 2nd gear.
(c) Remove the needle roller bearing.



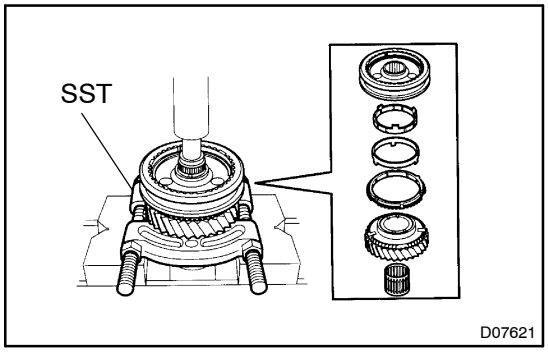
5. REMOVE HUB SLEEVE NO. 1, SHIFTING KEY NO. 1 AND SPRING FROM CLUTCH HUB NO. 1

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

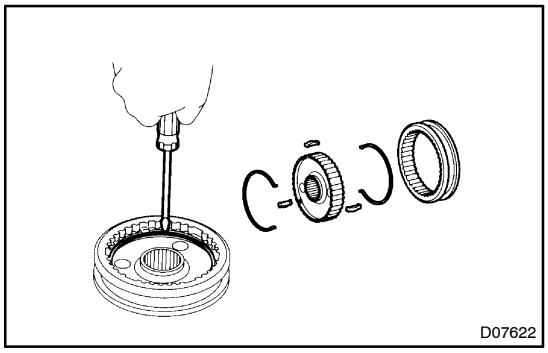


6. REMOVE HUB SLEEVE NO. 2 ASSEMBLY, SYNCHRONIZER RING SET NO. 3, 3RD GEAR AND NEEDLE ROLLER BEARING

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

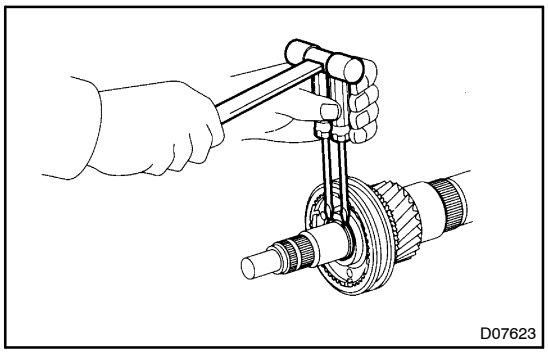


(c) Using SST and a press, remove the hub sleeve No. 2 assembly, synchronizer ring set No. 3 and 3rd gear.
SST 09555–55010
(d) Remove the needle roller bearing.



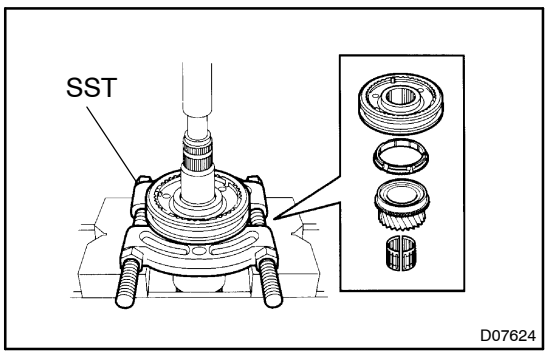
7. REMOVE HUB SLEEVE NO. 2, SHIFTING KEY NO. 2 AND SPRING FROM CLUTCH HUB NO. 2

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

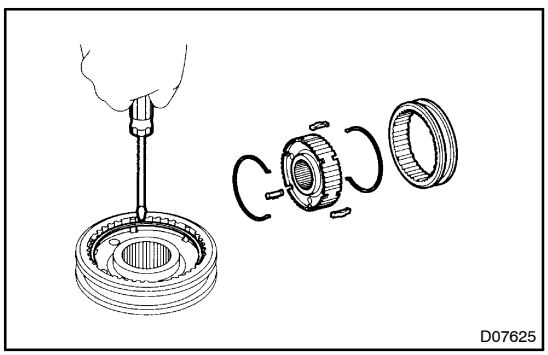


8. REMOVE HUB SLEEVE NO. 3 ASSEMBLY, SYNCHRONIZER RING NO. 3, 5TH GEAR AND NEEDLE ROLLER BEARING

(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 No. 3 and 5th gear.
SST 09555–55010
(c) Remove the needle roller bearing.



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

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