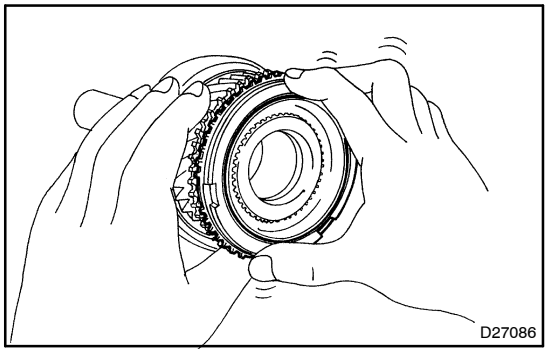
410CK–01

OVERHAUL



1. INSPECT SYNCHRONIZER RING SET NO.2

(a) Check for wear or damage.

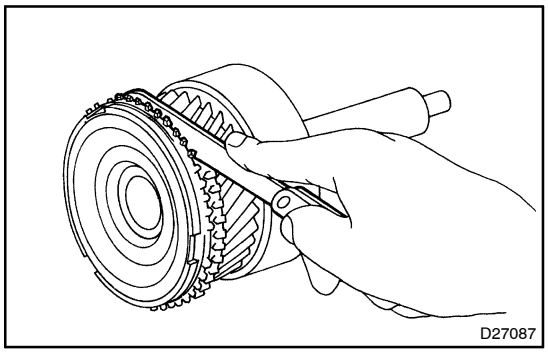
(b) Check the braking effect of the synchronizer ring. Turn the synchronizer ring in one direction while pushing it to the gear cone. Check that the ring locks.

If the braking effect is insufficient, apply a small amount of the fine lapping compound between the synchronizer ring and gear cone. Lightly rub the synchronizer ring and gear cone together.

NOTICE:

Ensure the fine lapping compound is completely washed off after rubbing.

(c) Check again the braking effect of the synchronizer ring.



(d) Using a feeler gauge, measure the clearance between the synchronizer ring back and gear spline end.

Minimum clearance: 0.8 mm (0.0315 in.)

If the clearance is less than the minimum, replace the synchronizer ring, and apply a small amount of the fine lapping compound to the gear cone.

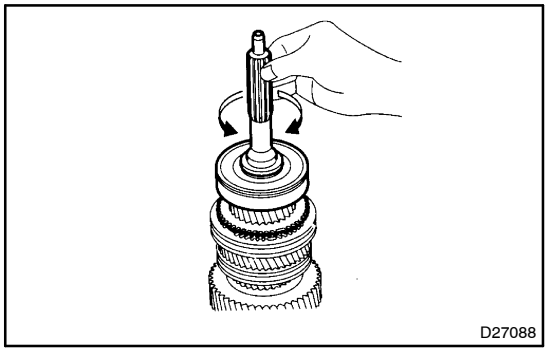
NOTICE:

Ensure the fine lapping compound is completely washed off after rubbing.

2. REMOVE SYNCHRONIZER RING SET NO.2

3. REMOVE INPUT SHAFT BEARING

(a) Remove the 12 rollers.



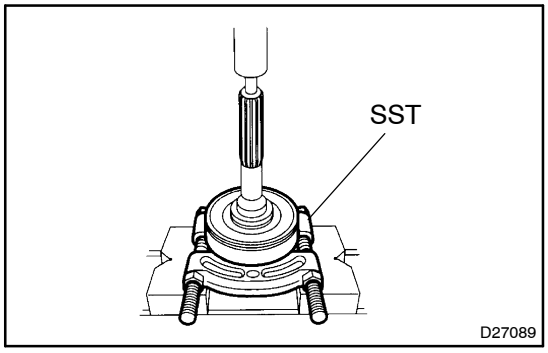
4. INSPECT INPUT SHAFT FRONT BEARING

(a) Check that the input shaft turns freely.

If the input shaft does not turn freely, replace the bearing.

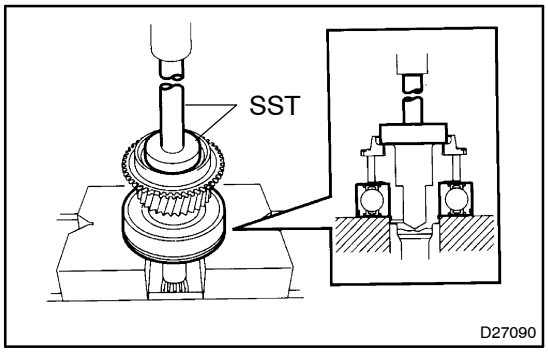
5. REMOVE SHAFT SNAP RING

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



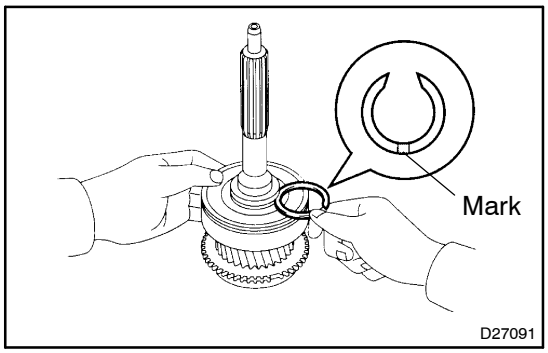
6. REMOVE INPUT SHAFT FRONT BEARING

(a) Using SST and a press, press out the bearing.
SST 09950–00020



7. INSTALL INPUT SHAFT FRONT BEARING

(a) Using SST and a press, press in a new bearing.
SST 09950–60010 (09951–00570), 09950–70010 (09951–07100)



8. INSTALL SHAFT SNAP RING

(a) Select a snap ring that allows the minimum axial play.

Mark	Thickness mm (in.)
A	2.50 – 2.55 (0.0984 – 0.1004)
B	2.55 – 2.60 (0.1004 – 0.1024)
C	2.60 – 2.65 (0.1024 – 0.1044)
D	2.65 – 2.70 (0.1044 – 0.1063)
E	2.70 – 2.75 (0.1063 – 0.1083)
F	2.75 – 2.80 (0.1083 – 0.1102)

(b) Using snap ring pliers (expander), install the snap ring.

9. INSTALL SYNCHRONIZER RING SET NO.2

10. INSPECT SYNCHRONIZER RING SET NO.2 (See step 1)

11. INSTALL INPUT SHAFT BEARING

(a) Install the 12 rollers.

HINT:

Apply MP grease to the 12 rollers, and install it into the input shaft.