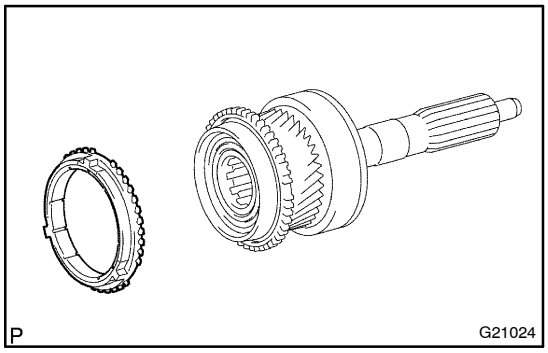
INPUT SHAFT ASSY (W56)

410BS–01

OVERHAUL

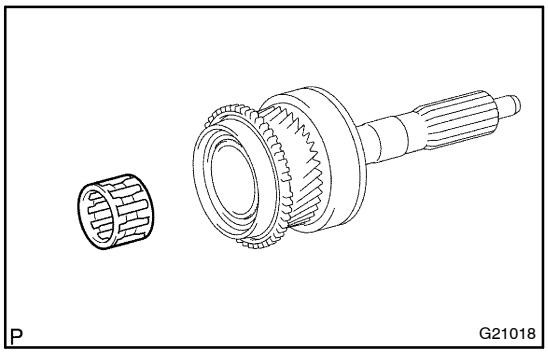
HINT:

COMPONENTS: See page 41–1



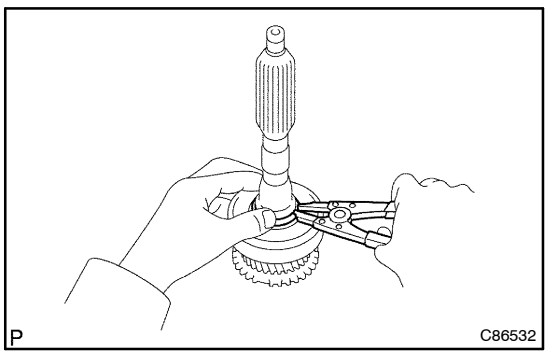
1. REMOVE SYNCHRONIZER RING NO.2

(a) Remove the synchronizer ring No.2 from the input shaft assy.



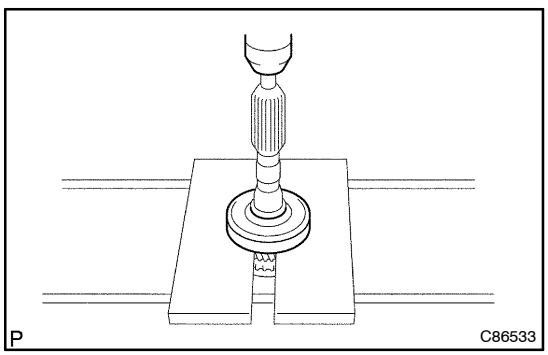
2. REMOVE INPUT SHAFT BEARING

(a) Remove the input shaft bearing from the input shaft assy.

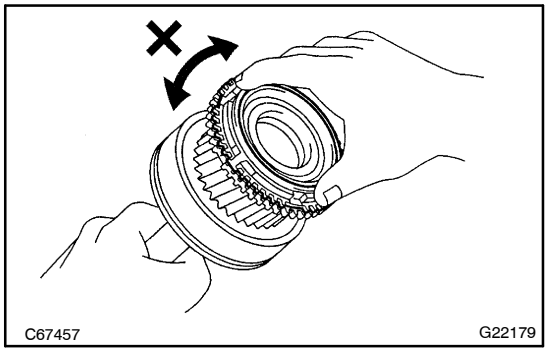


3. REMOVE INPUT SHAFT FRONT BEARING

(a) Using snap ring pliers, remove the front bearing shaft snap ring from the input shaft assy.



(b) Using a press, remove the input shaft front bearing from the input shaft.



4. INSPECT SYNCHRONIZER RING NO.2

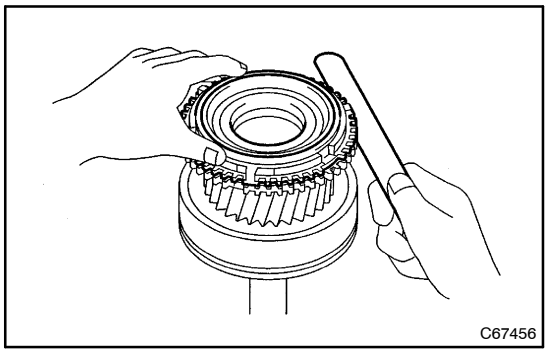
(a) Coat the input shaft cone with gear oil. Check the braking effect of the synchronizer ring No.2. Turn the synchronizer ring No.2 in one direction while pushing it to the input shaft cone. Check that the ring locks.

If the braking effect is insufficient, apply a small amount of the fine lapping compound between the synchronizer ring No.2 and input shaft cone. Lightly rub the synchronizer ring No.2 and input shaft cone together.

NOTICE:

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

(b) Check the braking effect of the synchronizer ring No.2 again.



(c) Using a feeler gauge, measure the clearance between the synchronizer ring No.2 back and input shaft spline end.

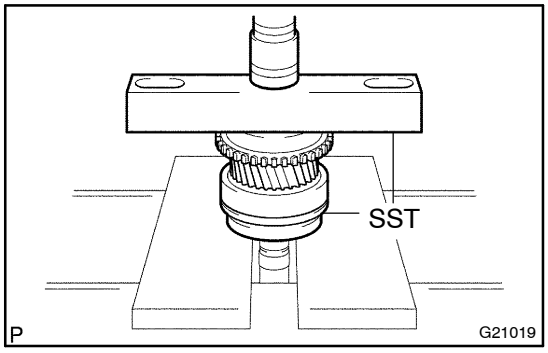
Standard clearance:

0.7 – 1.7 mm (0.0276 – 0.0669 in.)

If the clearance exceeds the standard clearance, replace the synchronizer ring No.2 and apply a small amount of the fine lapping compound on the input shaft cone.

NOTICE:

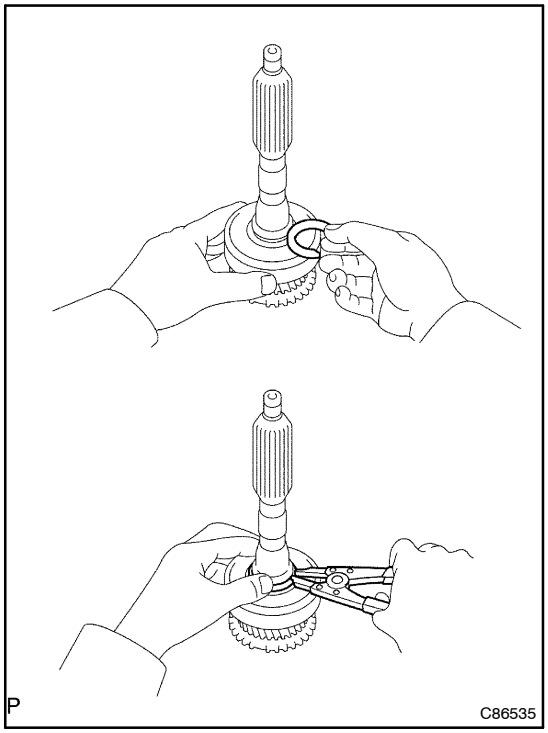
Ensure the fine lapping compound is completely washed off after rubbing.



5. INSTALL INPUT SHAFT FRONT BEARING

(a) Using SST and a press, install a new input shaft front bearing on the input shaft.

SST 09506–35010, 09528–55011



(b) Select a front bearing shaft snap ring that will allows minimum axial play.

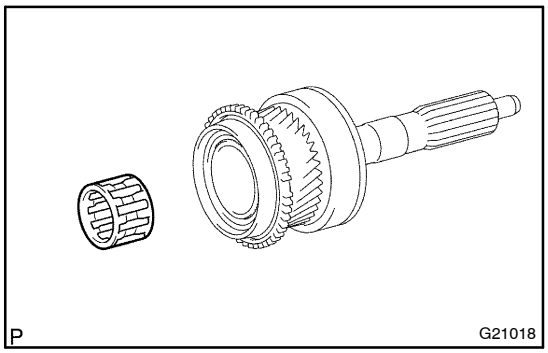
Standard clearance:

0.1 mm (0.0039 in.) or less

Front bearing shaft snap ring thickness: mm (in.)

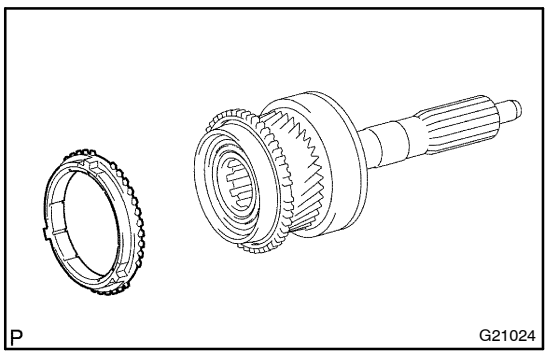
Mark	Thickness
1	2.05 – 2.10 (0.0807 – 0.0827)
2	2.10 – 2.15 (0.0827 – 0.0846)
3	2.15 – 2.20 (0.0846 – 0.0866)
4	2.20 – 2.25 (0.0866 – 0.0886)
5	2.25 – 2.30 (0.0886 – 0.0906)
11	2.30 – 2.35 (0.0906 – 0.0925)
12	2.35 – 2.40 (0.0925 – 0.0945)

(c) Using snap ring pliers, install the front bearing shaft snap ring on the input shaft.



6. INSTALL INPUT SHAFT BEARING

(a) Coat the input shaft bearing with MP grease, install then on the input shaft.



7. INSTALL SYNCHRONIZER RING NO.2

(a) Coat the synchronizer ring No.2 with gear oil, install it on the input shaft.