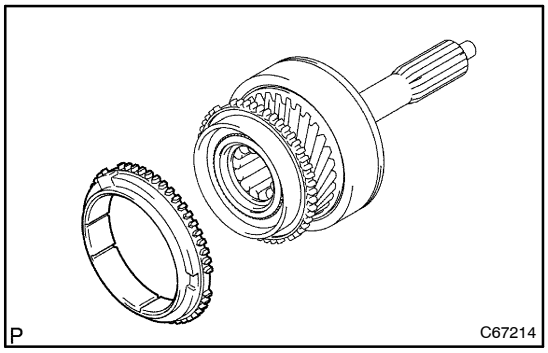
INPUT SHAFT ASSY (G52)

OVERHAUL

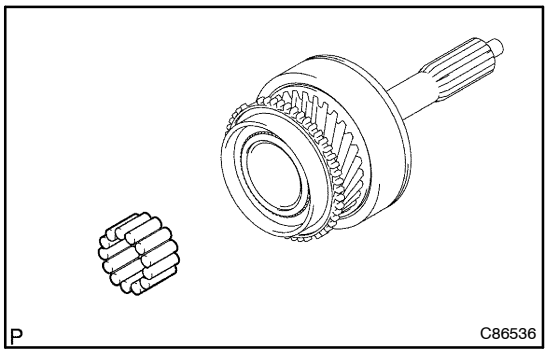
4103E–02

HINT:

COMPONENTS: See page 41–1

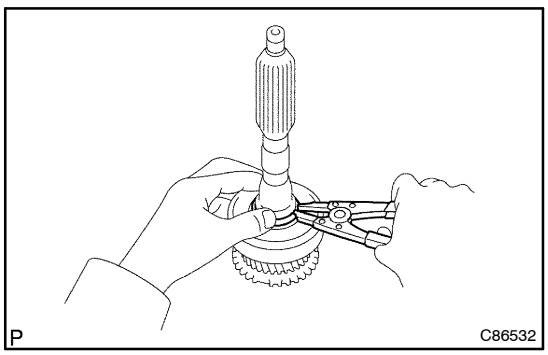


1. REMOVE SYNCHRONIZER RING NO.2



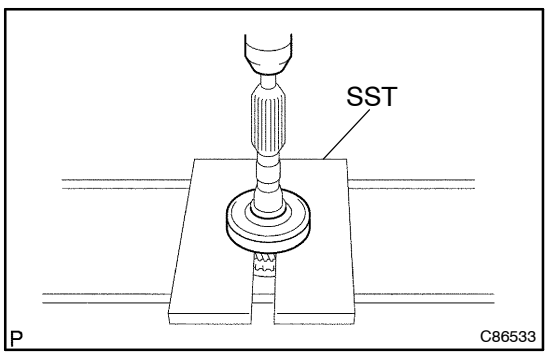
2. REMOVE INPUT SHAFT BEARING

(a) Remove the 13 the input shaft bearing from the input shaft assy.



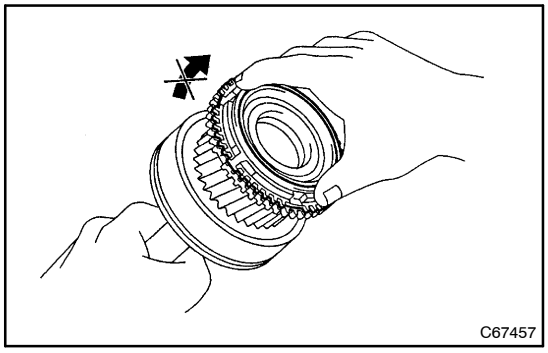
3. REMOVE INPUT SHAFT FRONT BEARING

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



(b) Using SST and a press, remove the input shaft shim from the input shaft.

SST 09527–10011



4. INSPECT SYNCHRONIZER RING NO.2

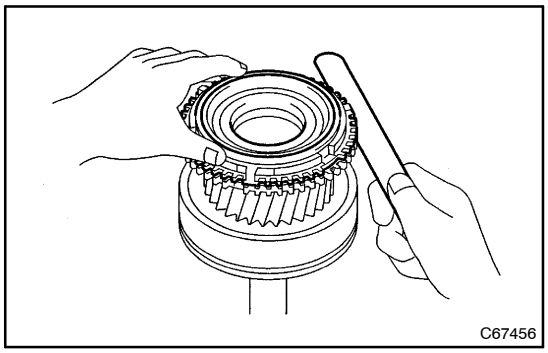
(a) Coat the input shaft cone with gear oil. Check the braking effect of the synchronizer ring No. 1. Turn the synchronizer ring No. 1 one direction while pushing it to the input shaft cone. Check that the ring locks.

If the braking effect is insufficient, apply a small amount of the fine lapping compound between the synchronizer ring No. 1 and the input shaft cone. Lightly rub the synchronizer ring No. 1 and the input shaft cone together.

NOTICE:

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

(b) Check again the braking effect of the synchronizer ring No. 1.



(c) Using a feeler gauge, measure the clearance between the synchronizer ring No .1 back and the input shaft spline end.

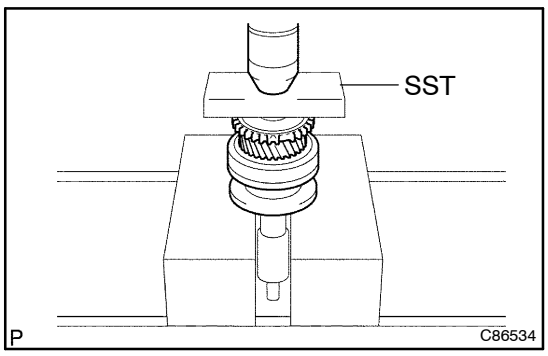
Standard clearance:

1.0 – 2.0 mm (0.0394 – 0.0787 in.)

If the clearance is less than the minimum, replace the synchronizer ring No. 1, and apply a small amount of the fine lapping compound on the input shaft cone.

NOTICE:

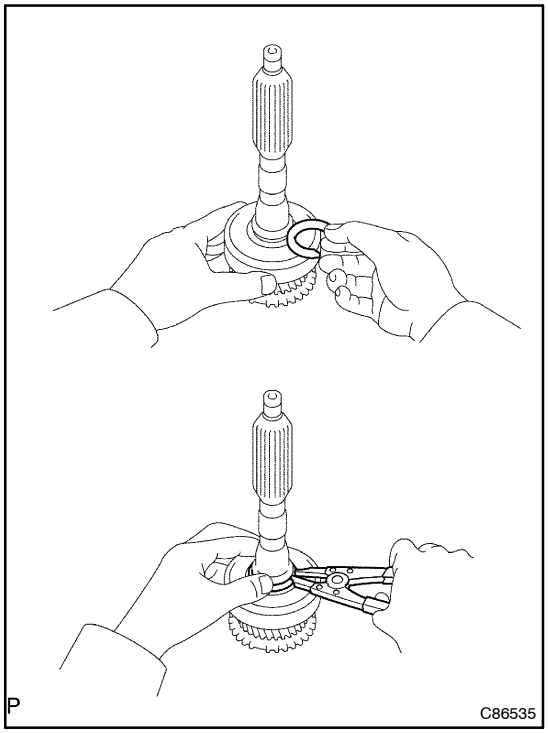
Ensure the fine lapping compound is completely washed off after rubbing.



5. INSTALL INPUT SHAFT FRONT BEARING

(a) Using SST and a press, install a new input shaft shim to the input shaft.

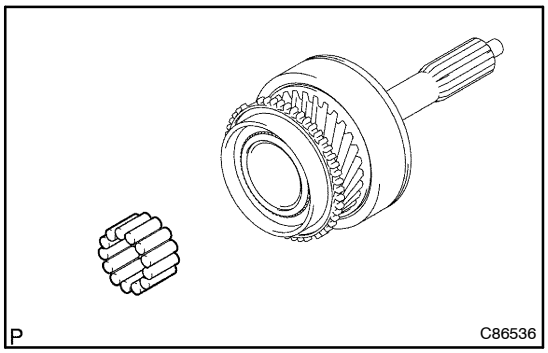
SST 09316–60011 (09316–00031)



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

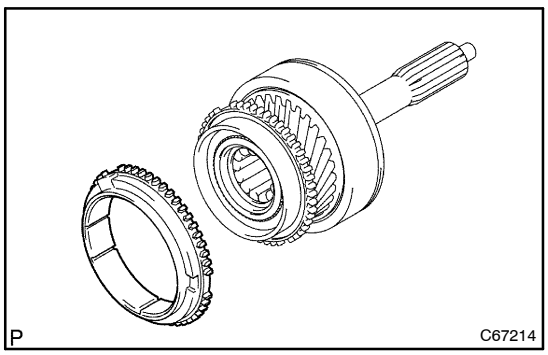
Standard clearance:
0.1 mm (0.0039 in.) or less
Front bearing shaft snap ring thickness: mm (in)

Mark	Thickness
0	2.05 – 2.10 (0.0807 – 0.0827)
1	2.10 – 2.15 (0.0827 – 0.0847)
2	2.15 – 2.20 (0.0847 – 0.0866)
3	2.20 – 2.25 (0.0866 – 0.0886)
4	2.25 – 2.30 (0.0886 – 0.0906)
5	2.30 – 2.35 (0.0906 – 0.0925)



6. INSTALL INPUT SHAFT BEARING

(a) Coat the 13 input shaft bearings with MP grease, and install them to the input shaft.



7. INSTALL SYNCHRONIZER RING NO.2

(a) Coat the synchronizer ring No. 1 with gear oil, and install it to the input shaft.