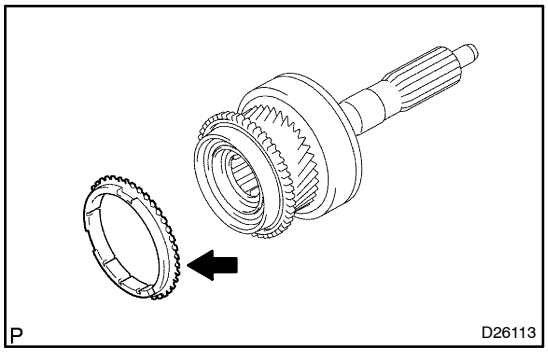
INPUT SHAFT ASSY (R150F)

OVERHAUL

4103R–02

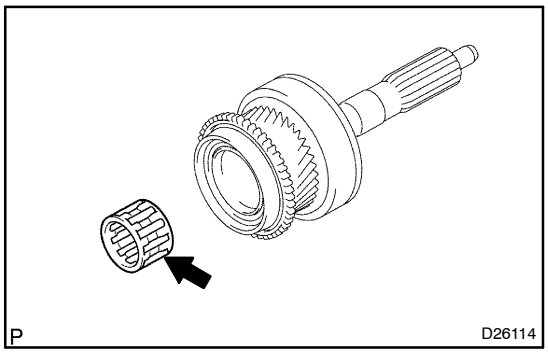
HINT:

COMPONENTS: See page 41–1



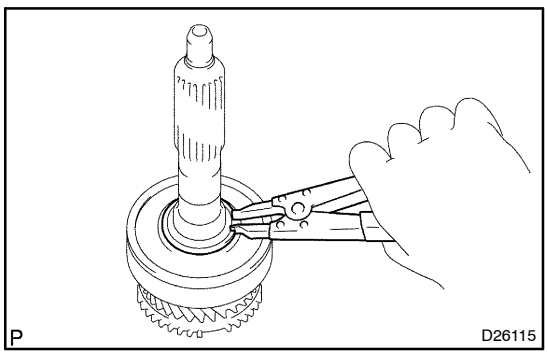
1. REMOVE SYNCHRONIZER RING NO.2

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



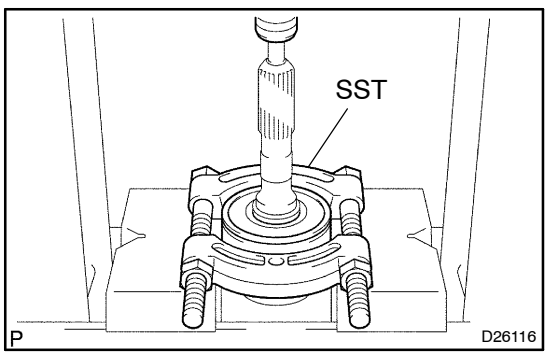
2. REMOVE INPUT SHAFT BEARING

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



3. REMOVE FRONT BEARING SHAFT SNAP RING

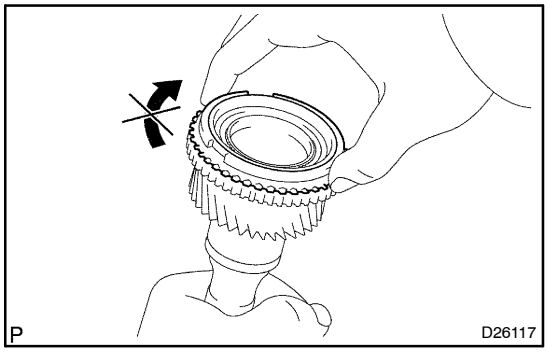
(a) Using a snap ring expander, remove the front bearing shaft snap ring from the input shaft.



4. REMOVE INPUT SHAFT FRONT BEARING

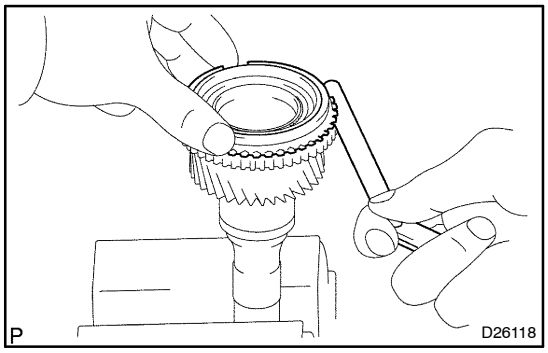
(a) Using SST and a press, remove the input shaft bearing FR from the input shaft.

SST 09950–00020



5. INSPECT SYNCHRONIZER RING NO.2

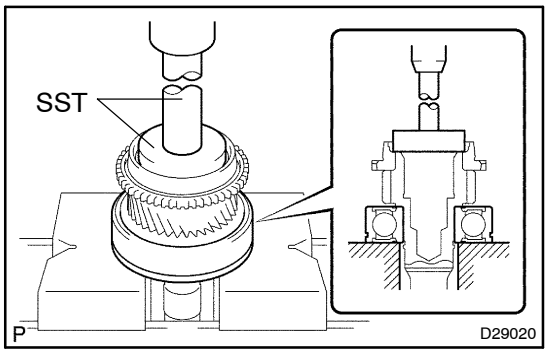
(a) Apply gear oil to the cone of the input shaft, and check that it does not turn in the both direction while pushing the synchronizer ring No.2.



(b) Check the clearance between the synchronizer ring No.2 and the input shaft while pushing the synchronizer ring No.2 to the cone of the input shaft.

Standerd clearance:
0.70 – 1.70 mm (0.0276 – 0.0669 in.)

NOTICE:
If the clearance is outside the specification, replace synchronizer ring No.2 with a new one.

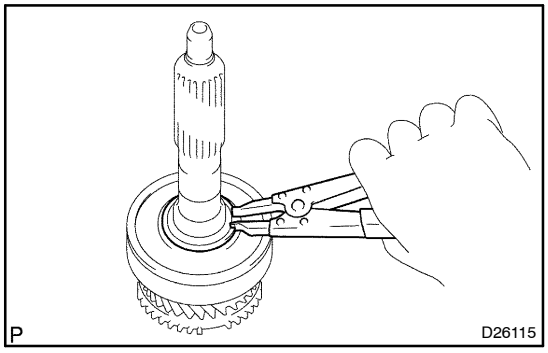


6. INSTALL INPUT SHAFT FRONT BEARING

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

SST 09950–60010 (09951–00570), 09950–70010 (09951–07100)

NOTICE:
Set the snap ring groove of the input shaft bearing FR to the front side.

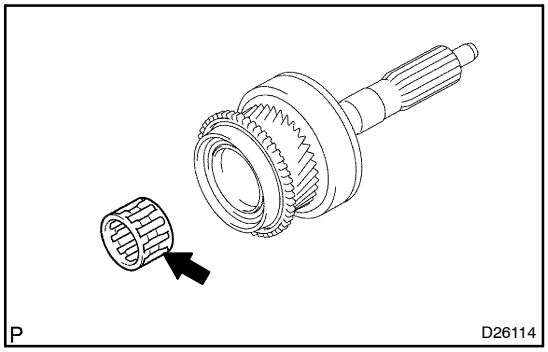


7. INSTALL FRONT BEARING SHAFT SNAP RING

(a) Select a front shaft snap ring that makes the gap between the input shaft and the front bearing shaft to be within the specification, and using SST, install it to the input shaft.

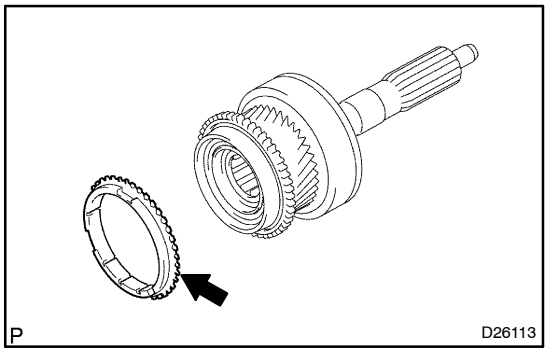
Standard clearance:
0.1 mm (0.0039 in.) or less

Mark	Thicness mm (in.)
A	2.10 – 2.15 (0.0827 – 0.0846)
B	2.15 – 2.20 (0.0846 – 0.0866)
C	2.20 – 2.25 (0.0866 – 0.0886)
D	2.25 – 2.30 (0.0886 – 0.0906)
E	2.30 – 2.35 (0.0906 – 0.0925)
F	2.35 – 2.40 (0.0925 – 0.0945)
G	2.40 – 2.45 (0.0945 – 0.0965)



8. INSTALL INPUT SHAFT BEARING

(a) Apply gear oil to the input shaft bearing ring to the input shaft, and install it the input shaft.



9. INSTALL SYNCHRONIZER RING NO.2

(a) Apply gear oil to synchronizer ring No.2, and install it to the input shaft.