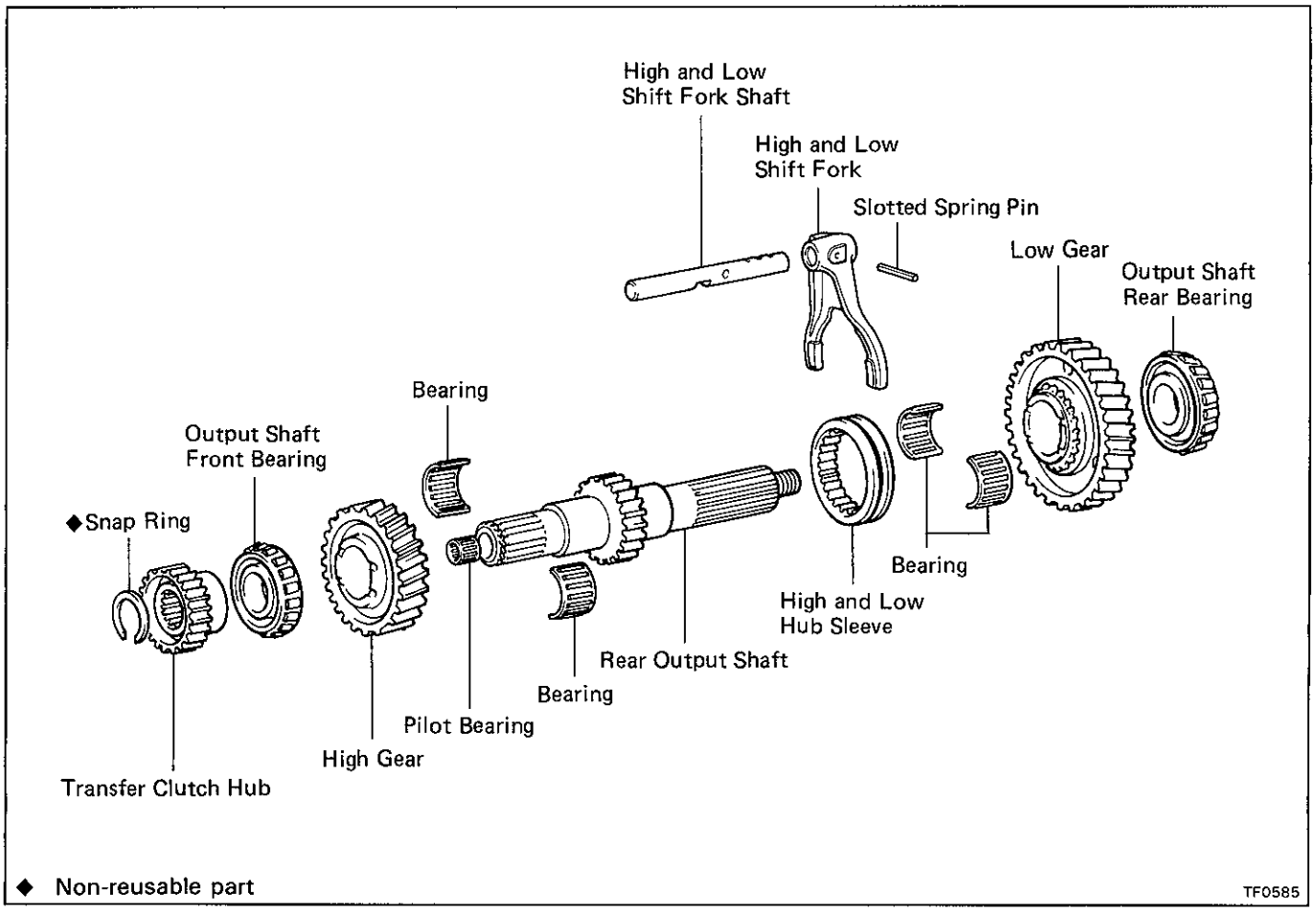
COMPONENT PARTS

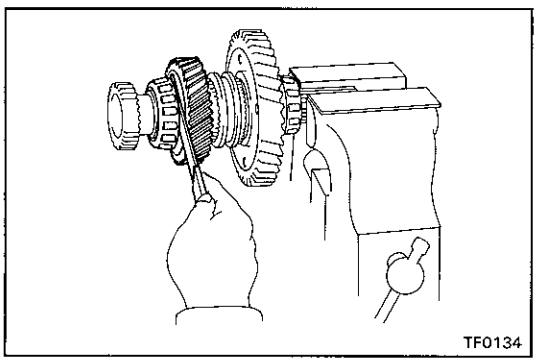
Rear Output Shaft Assembly

COMPONENTS

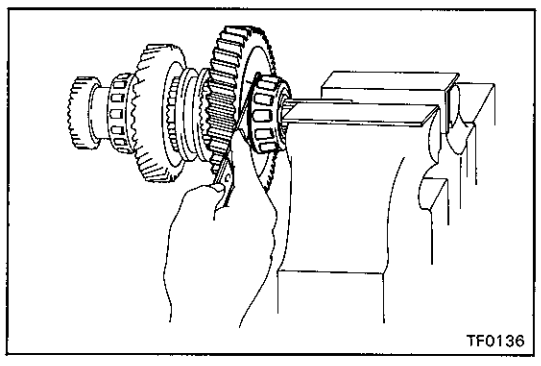


◆ Non-reusable part

TF0585



TF0134



TF0136

DISASSEMBLY OF REAR OUTPUT SHAFT ASSEMBLY

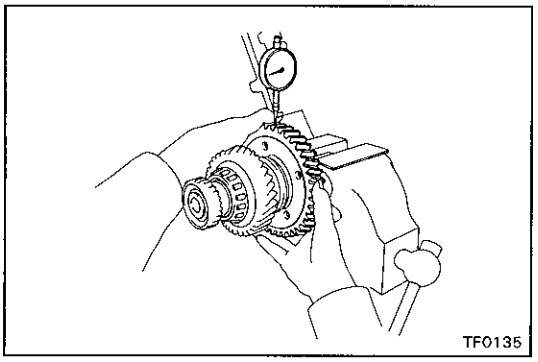
1. **INSPECT THRUST CLEARANCES OF HIGH AND LOW GEARS**

   (a) Using a feeler gauge, measure the thrust clearance between the high gear and bearing.

   Standard clearance: 0.10 — 0.25 mm (0.0039 — 0.0098 in.)

   (b) Using a feeler gauge, measure the thrust clearance between the low gear and bearing.

   Standard clearance: 0.10 — 0.25 mm (0.0039 — 0.0098 in.)

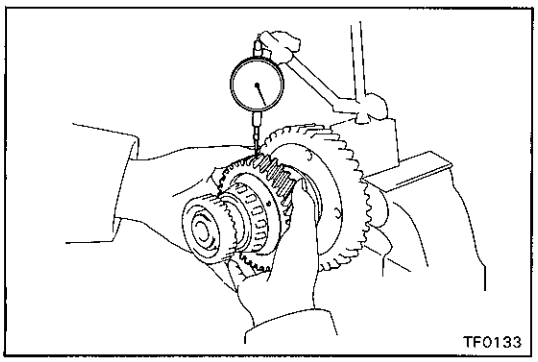


2. INSPECT OIL CLEARANCES OF LOW AND HIGH GEARS

(a) Using a dial indicator, measure oil clearance between the low gear and shaft with the needle roller bearing installed.

Standard clearance: **0.019 — 0.068 mm (0.0007 — 0.0027 in.)**

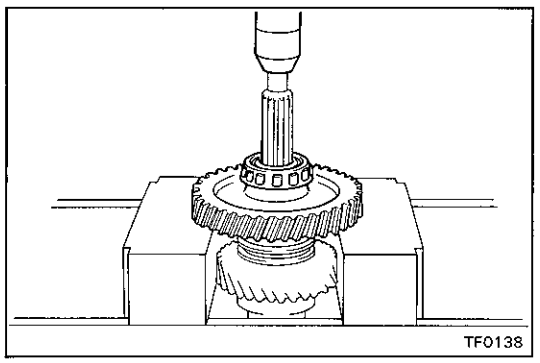
Maximum clearance: **0.068 mm (0.0027 in.)**



(b) Using a dial indicator, measure oil clearance between the high gear and shaft with the needle roller bearing installed.

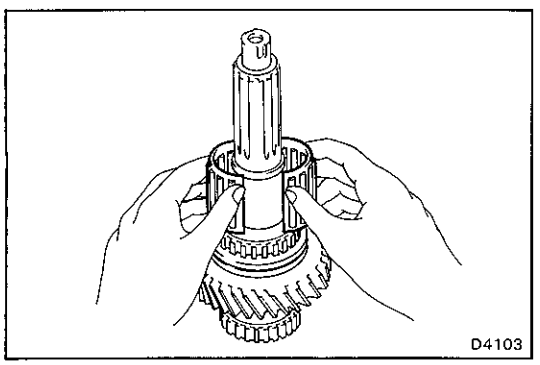
Standard clearance: **0.019 — 0.068 mm (0.0007 — 0.0027 in.)**

Maximum clearance: **0.068 mm (0.0027 in.)**

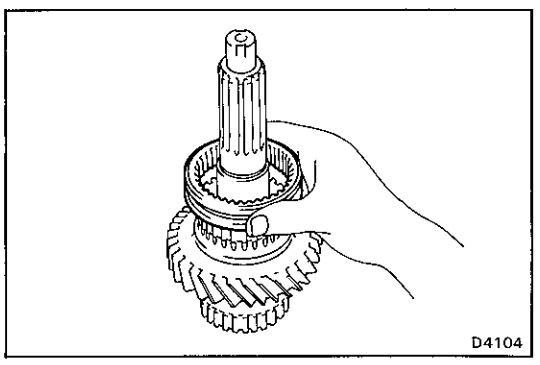


3. REMOVE LOW GEAR, AND HIGH AND LOW CLUTCH HUB SLEEVE

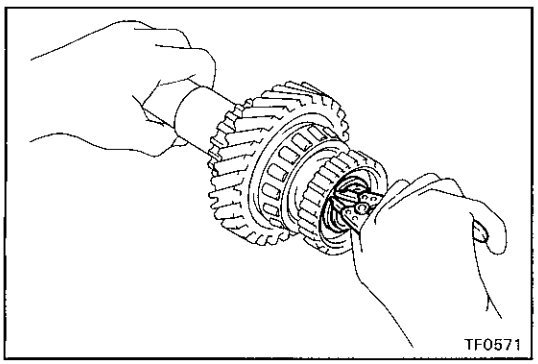
(a) Using a press, press out the output shaft rear bearing and low gear.



(b) Remove low gear bearings from the rear output shaft.

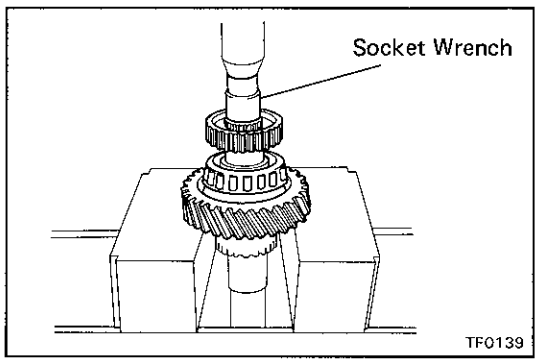


(c) Remove the high and low hub sleeve.

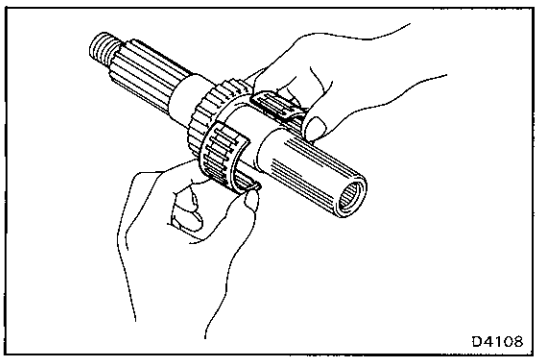


4. **REMOVE TRANSFER CLUTCH HUB AND HIGH GEAR**

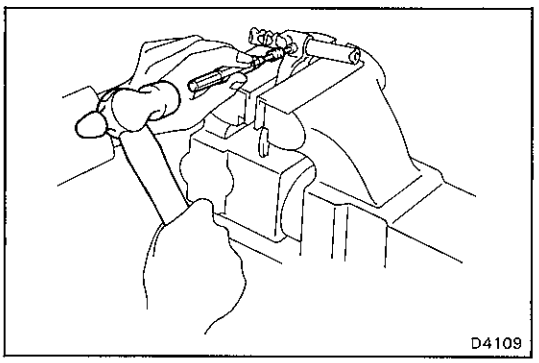
(a) Using snap ring pliers, remove the snap ring.



(b) Using a press and socket wrench, press out the transfer clutch hub, output shaft front bearing and high gear.



(c) Remove the high gear bearings from the rear output shaft.

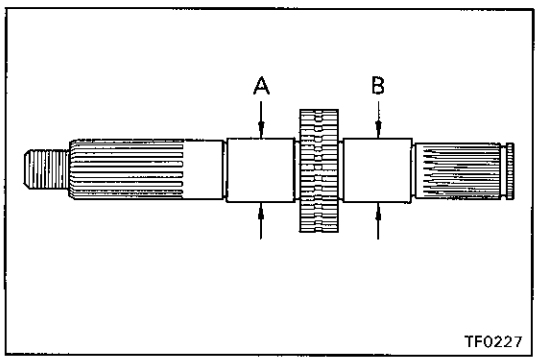


5. **REMOVE HIGH AND LOW SHIFT FORK SHAFT**

(a) Mount the high and low shift fork in a soft jaw vise.

(b) Using a pin punch and hammer, tap out the slotted spring pin.

(c) Remove the shift fork shaft from the shift fork.



INSPECTION OF REAR OUTPUT SHAFT ASSEMBLY COMPONENTS

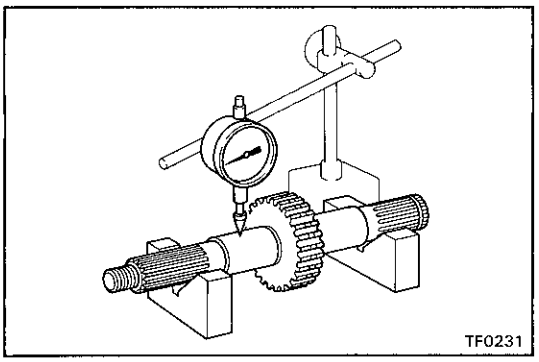
1. **INSPECT REAR OUTPUT SHAFT**

(a) Check the rear output shaft for wear or damage.

(b) Using a micrometer, measure the outer diameter of the rear output shaft journal surface.

Minimum outer diameter:

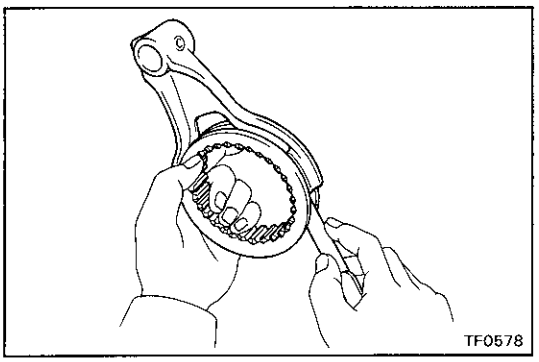
Part A 40.009 mm (1.5752 in.)
B 40.009 mm (1.5752 in.)



(c) Place the rear output shaft on V-blocks.

(d) Using a dial indicator, measure the shaft runout.

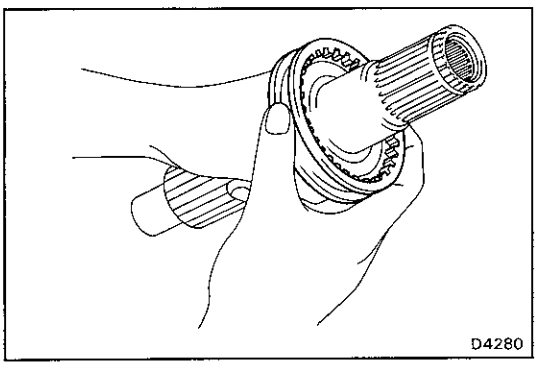
Maximum runout: 0.03 mm (0.0012 in.)



2. INSPECT CLEARANCE OF SHIFT FORK AND HUB SLEEVE

Using a feeler gauge, measure the clearance between the hub sleeves and shift fork.

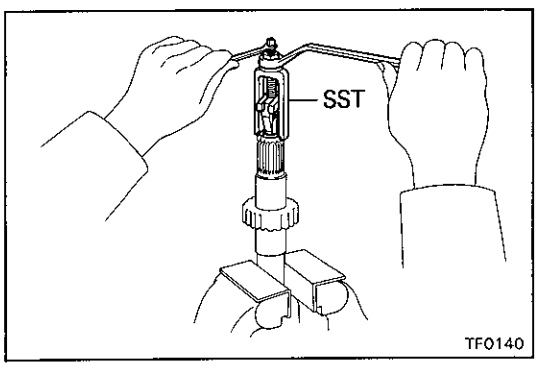
Maximum clearance: 1.0 mm (0.039 in.)



3. INSPECT HIGH AND LOW HUB SLEEVE

(a) Install the hub sleeve to the rear output shaft.

(b) Check that the hub sleeve moves smoothly.

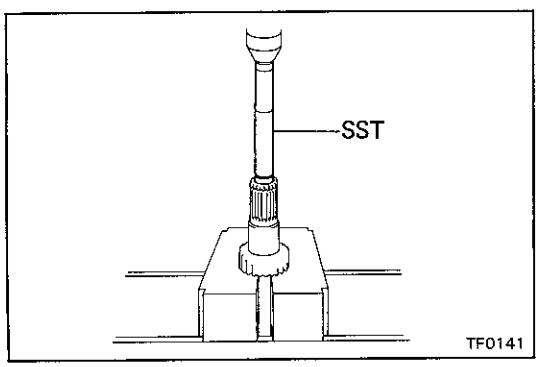


4. IF NECESSARY, REPLACE REAR OUTPUT SHAFT PILOT BEARING

(a) Using SST, remove the rear output shaft pilot bearing.

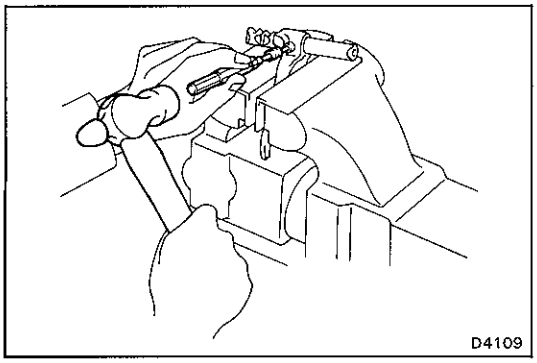
SST 09319-60020

HINT: The bearing will break.



(b) Using SST and a press, press in a new pilot bearing.

SST 09608-20012 (09608-03020)



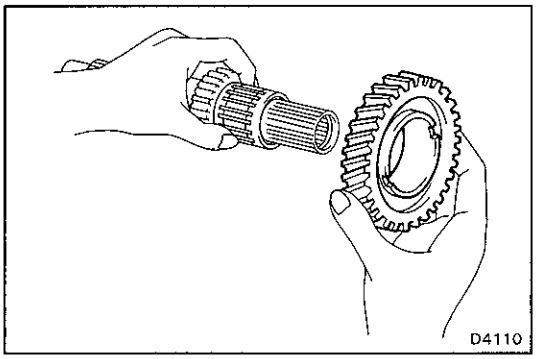
ASSEMBLY OF REAR OUTPUT SHAFT ASSEMBLY

1. INSTALL HIGH AND LOW SHIFT FORK SHAFT

(a) Mount the high and low shift fork in a soft jaw vise.

(b) Install the shift fork shaft into the shift fork.

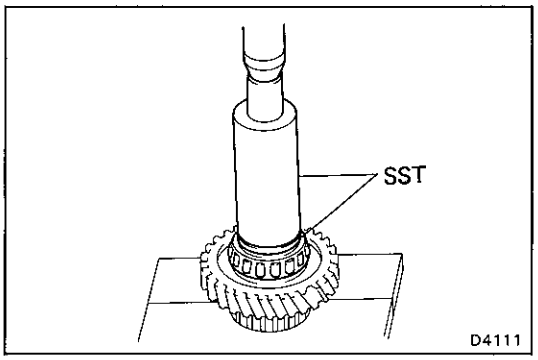
(c) Using a pin punch and hammer, tap in the slotted spring pin.



2. INSTALL HIGH GEAR AND TRANSFER CLUTCH HUB

(a) Apply MP grease to the high gear bearings.

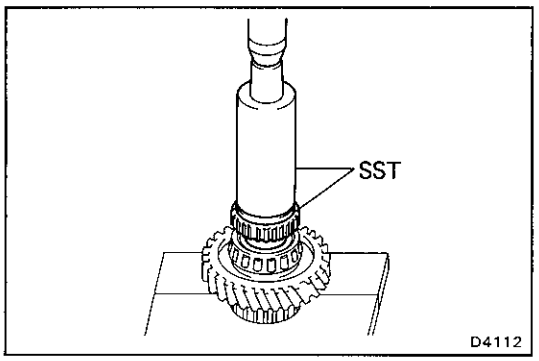
(b) Install high gear bearings and high gear.



(c) Using SST and a press, press in the output shaft front bearing.

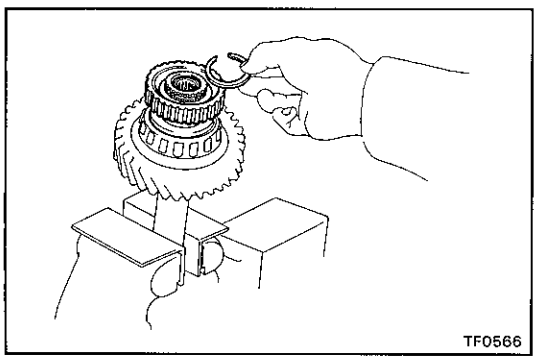
SST 09316-60010 (09316-00010, 09316-00070)

HINT: Replace both the bearing and the outer race as a set.



(d) Using SST and a press, press in the clutch hub.

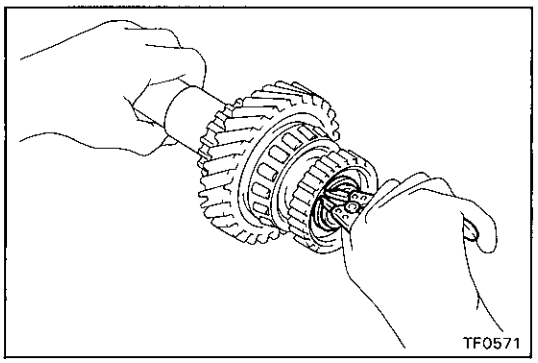
SST 09316-60010 (09316-00010, 09316-00070)



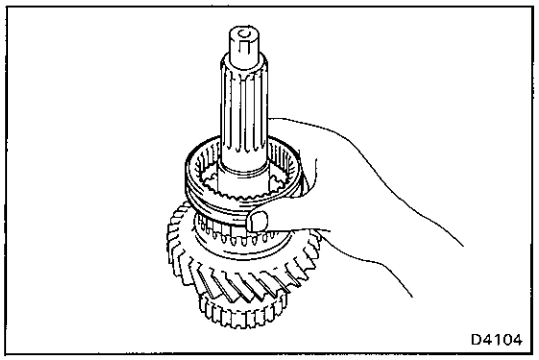
3. INSTALL SNAP RING

(a) Select a snap ring that will allow minimum axial play.

Mark	Thickness mm (in.)
11	2.30 — 2.35 (0.0906 — 0.0925)
17	2.60 — 2.65 (0.1024 — 0.1043)

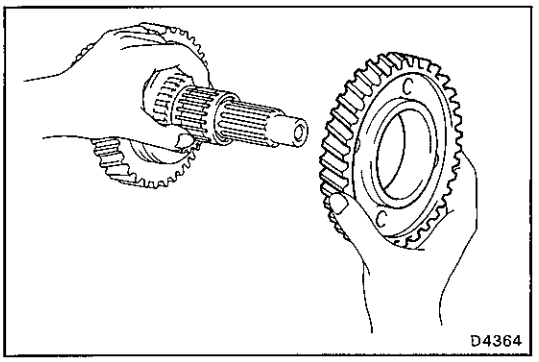


(b) Using snap ring pliers, install a new snap ring.



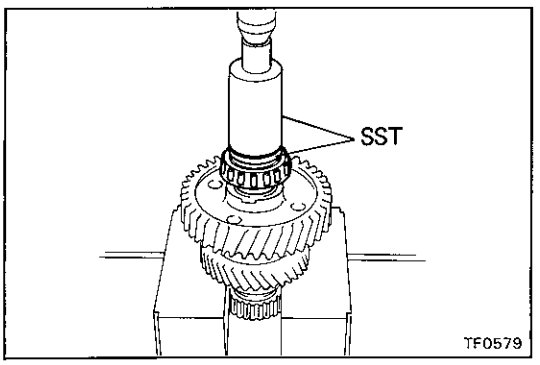
4. INSTALL LOW GEAR TO REAR OUTPUT SHAFT

(a) Install the high and low hub sleeve.



(b) Apply MP grease to the low gear bearings.

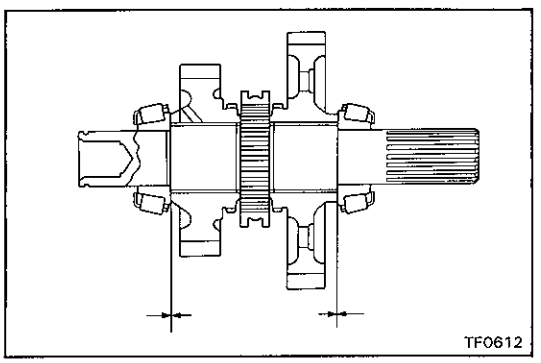
(c) Install low gear bearings and low gear.



(d) Using SST and a press, press in the output shaft rear bearing.

SST 09316-60010 (09316-00010, 09316-00070)

HINT: Replace both the bearing and the outer race as a set.



5. INSPECT THRUST CLEARANCES OF HIGH AND LOW GEARS

(a) Using a feeler gauge, measure the thrust clearance between the high gear and bearing.

Standard clearance: 0.10 — 0.25 mm (0.0039 — 0.0098 in.)

Maximum clearance: 0.25 mm (0.0098 in.)

(b) Using a feeler gauge, measure the thrust clearance between the low gear and bearing.

Standard clearance: 0.10 — 0.25 mm (0.0039 — 0.0098 in.)

Maximum clearance: 0.25 mm (0.0098 in.)