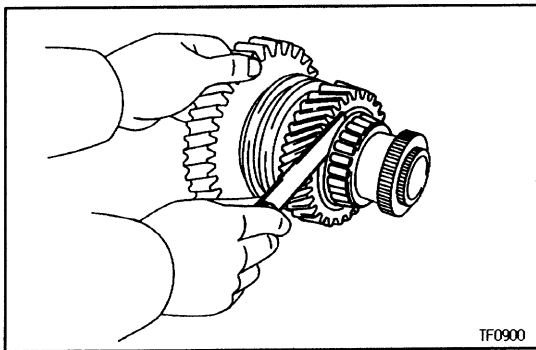
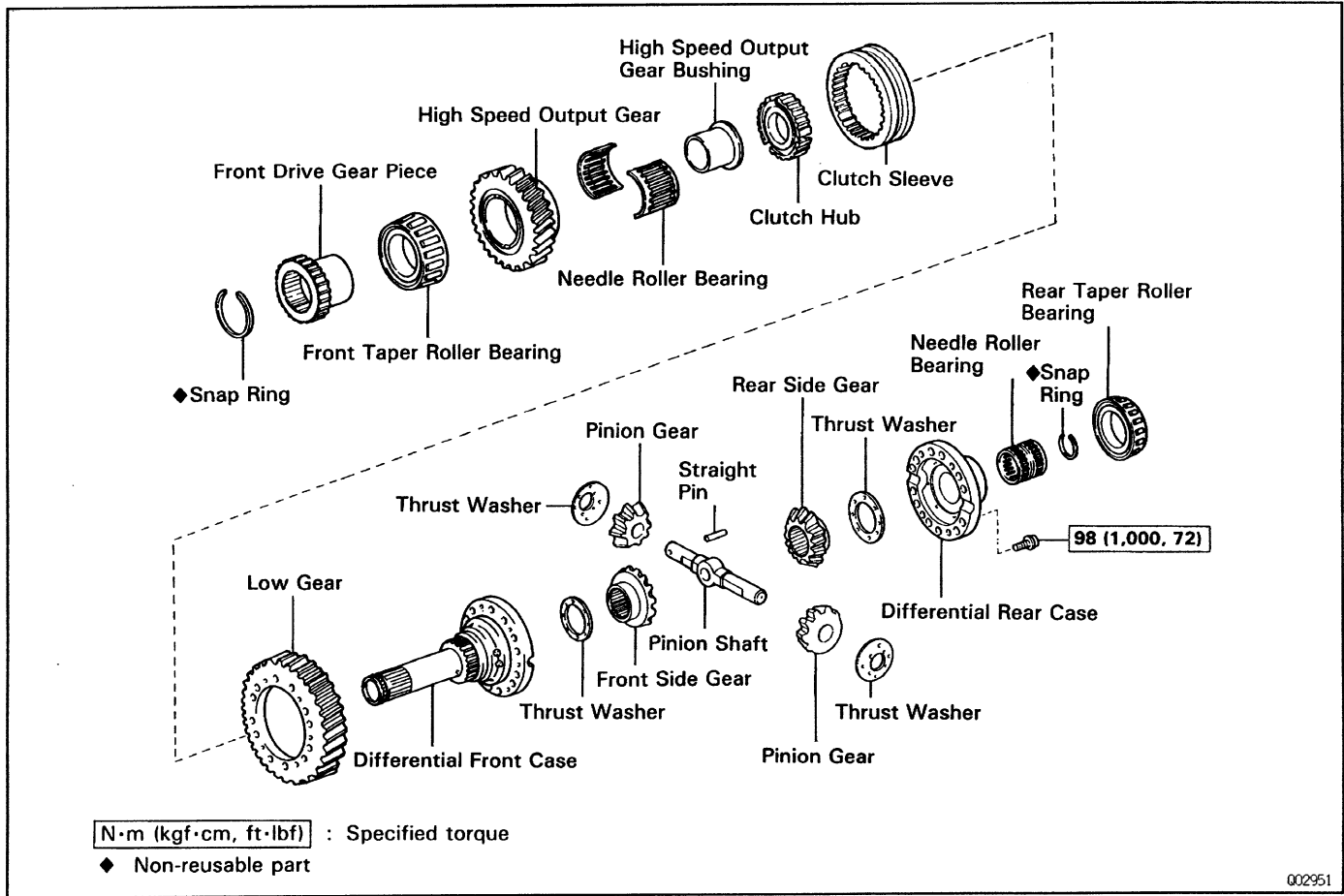


CENTER DIFFERENTIAL ASSEMBLY COMPONENTS



DISASSEMBLY OF CENTER DIFFERENTIAL ASSEMBLY

1. CHECK OIL CLEARANCE AND THRUST CLEARANCE OF HIGH SPEED GEAR

- (a) Using a feeler gauge, measure the high speed gear thrust clearance.

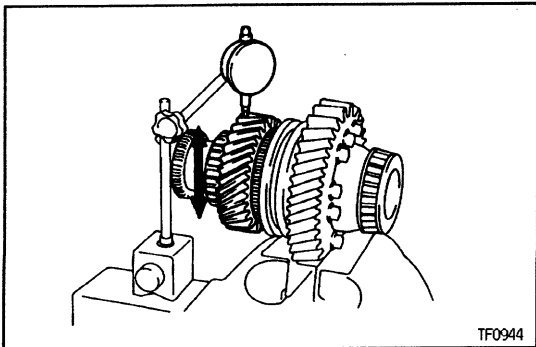
Standard clearance: 0.10–0.25 mm
(0.0039–0.0098 in.)

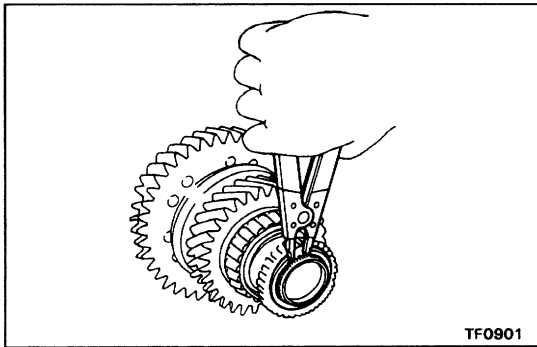
Maximum clearance: 0.25 mm (0.0098 in.)

- (b) Using a dial indicator, measure the high speed gear oil clearance.

Standard clearance: 0.015–0.071 mm
(0.0006–0.0028 in.)

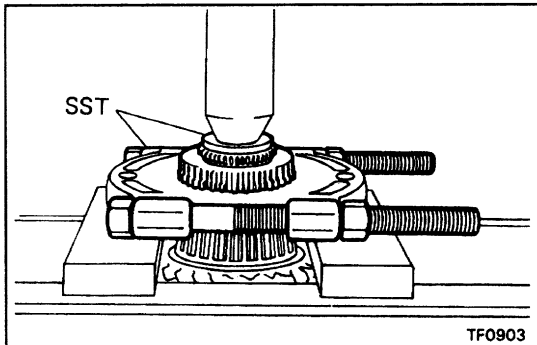
Maximum clearance: 0.071 mm (0.0028 in.)





2. REMOVE FRONT DRIVE GEAR PIECE

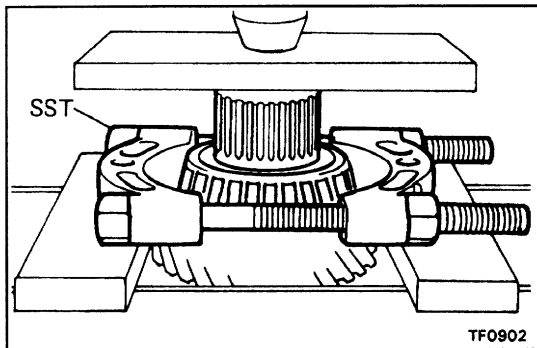
(a) Using snap ring pliers, remove the snap ring.



(b) Using SST and a press, remove the front drive gear piece.

SST 09950-20017, 09950-00020

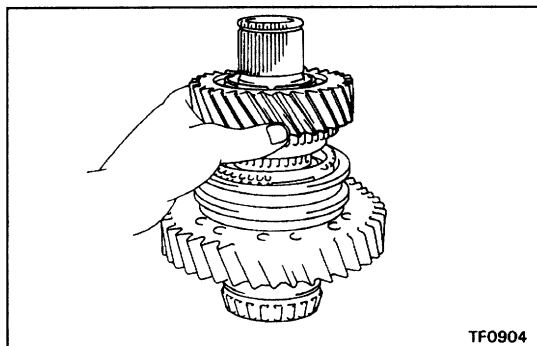
NOTICE: Be careful do not drop the center differential assembly.



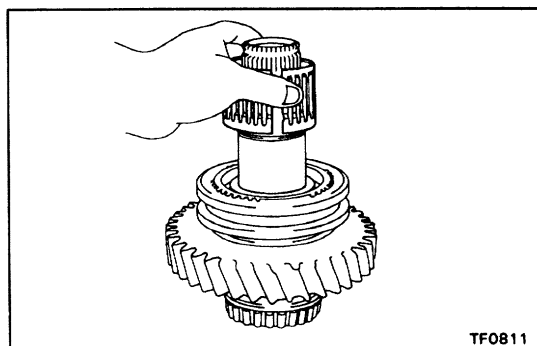
3. REMOVE FRONT TAPER ROLLER BEARING

Using SST and a press, remove the front taper roller bearing.

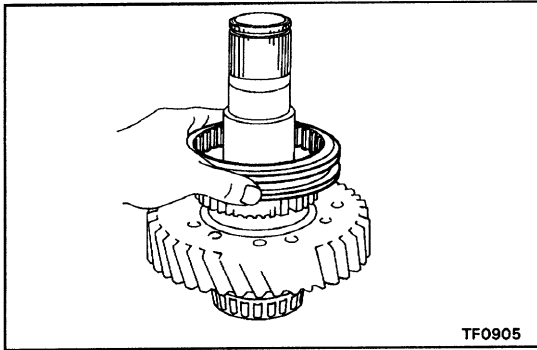
SST 09950-00020



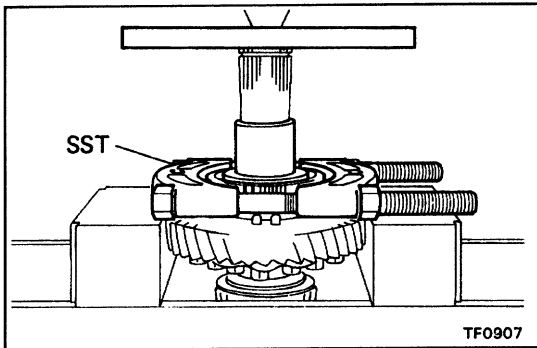
4. REMOVE HIGH SPEED OUTPUT GEAR AND SYNCHRONIZER RING



5. REMOVE NEEDLE ROLLER BEARING

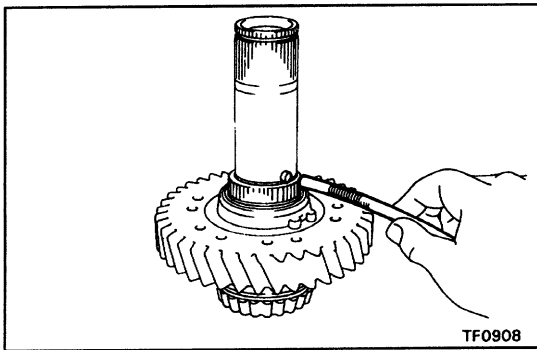


6. REMOVE HIGH AND LOW CLUTCH SLEEVE ASSEMBLY

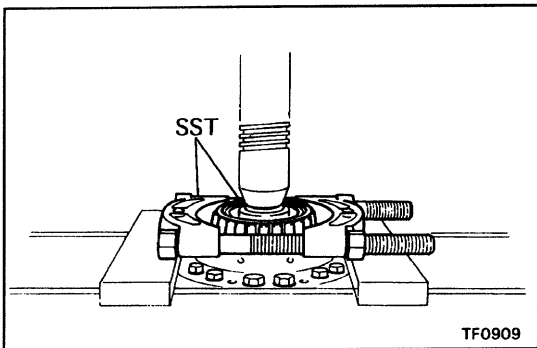


7. REMOVE HIGH SPEED OUTPUT GEAR BUSHING, CLUTCH HUB AND SHIFTING KEY RETAINER

- (a) Using SST and a press, remove the high speed output gear bushing and clutch hub.
SST 09555-55010



- (b) Using a magnetic finger, remove the two straight pins.



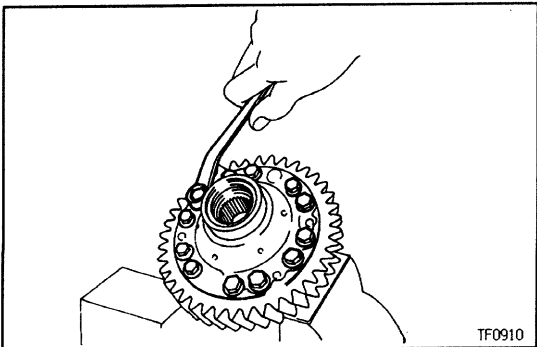
8. REMOVE REAR TAPER ROLLER BEARING

Using SST and a press, remove the rear taper roller bearing.

SST 09950-00020, 09950-20017 (09958-30010)

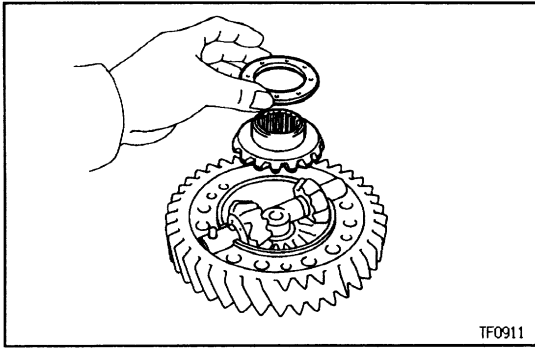
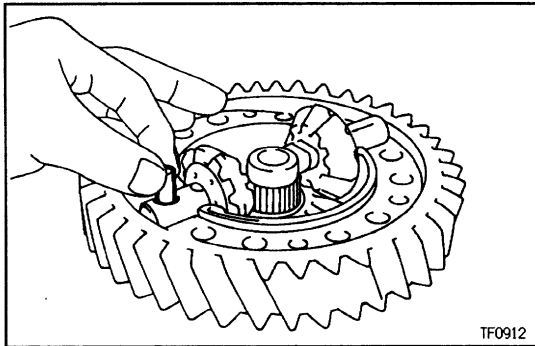
9. (W/ABS)

REMOVE SNAP RING AND NEEDLE ROLLER BEARING

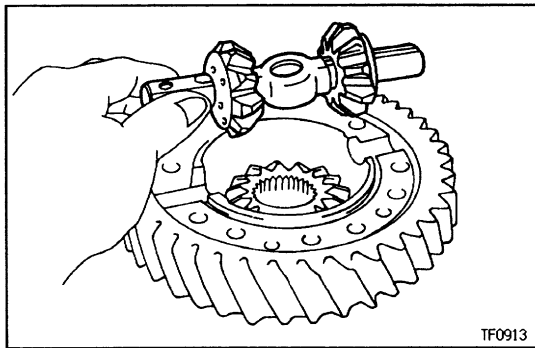


10. REMOVE DIFFERENTIAL REAR CASE

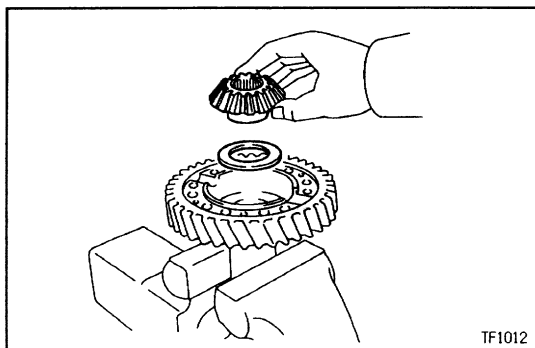
Remove the twelve bolts and differential rear case.

**11. REMOVE REAR SIDE GEAR AND THRUST WASHER****12. REMOVE PINION SHAFT, PINION GEAR AND THRUST WASHER**

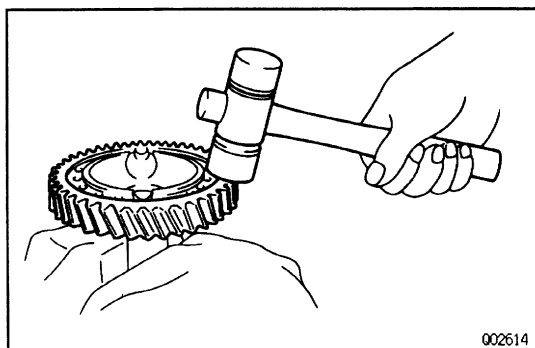
(a) Remove the straight pin.



(b) Remove the pinion shaft, pinion gear and thrust washer.

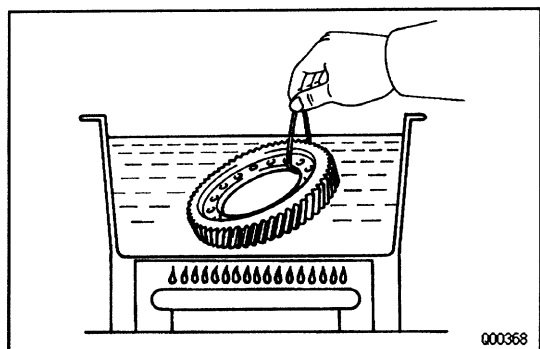


(c) Remove the front side gear and thrust washer.

**13. REMOVE LOW GEAR**

Using a plastic hammer, tap out the low gear.

NOTICE: Be careful do not damage the low gear.



000368

ASSEMBLY OF CENTER DIFFERENTIAL ASSEMBLY

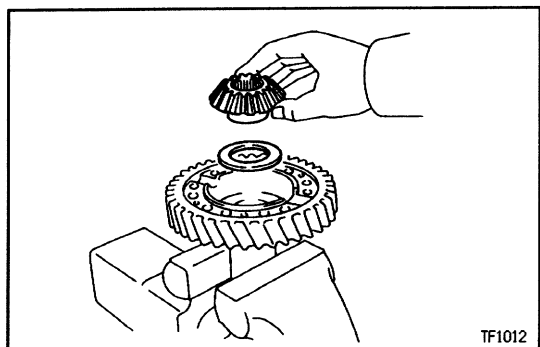
1. INSTALL LOW GEAR

- Clean the contact surface of the differential case.
- Heat the low gear in boiling water.
- Clean the contact surface of the low gear with cleaning solvent.
- Then quickly install the low gear on the differential case.

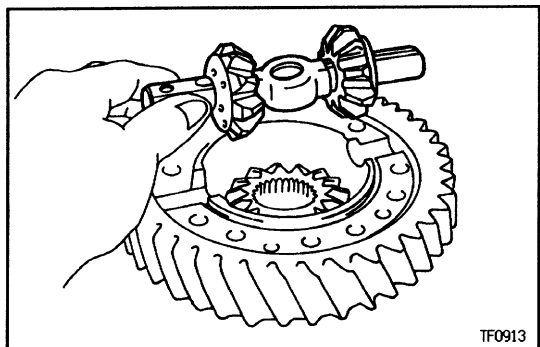
2. INSTALL PINION SHAFT, PINION GEAR AND THRUST WASHER

HINT: Coat all of the sliding and rotating surface with gear oil before assembly.

- Install the front side gear and thrust washer to the differential front case.

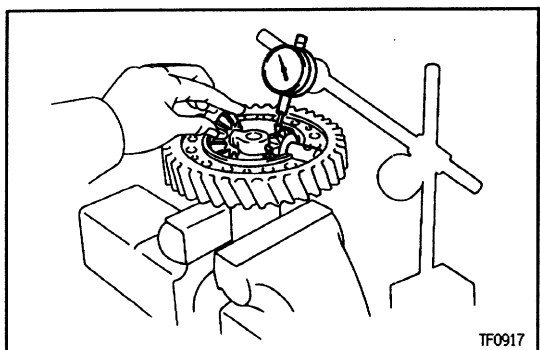


TF1012



TF0913

- Install the two pinion gears and thrust washers to the differential front case.



TF0917

- Using a dial indicator, measure the front case backlash.

HINT: Push the pinion shaft.

Minimum backlash: 0.05 mm (0.0020 in.)

If the backlash is not within specification, replace the thrust washer with one of the correct size and reinstall the thrust washer.

Thickness: 1.70 mm (0.0669 in.)

1.85 mm (0.0728 in.)

2.00 mm (0.0787 in.)

2.15 mm (0.0846 in.)

2.30 mm (0.0906 in.)

2.45 mm (0.0965 in.)

2.60 mm (0.1024 in.)

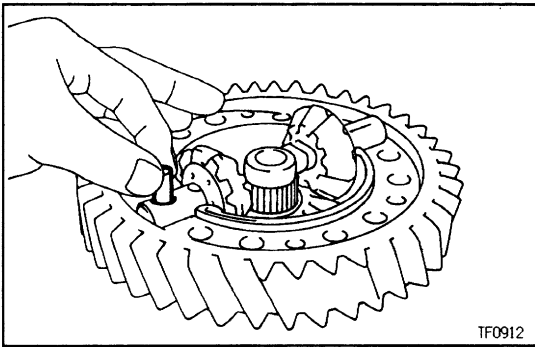
2.75 mm (0.1083 in.)

2.90 mm (0.1142 in.)

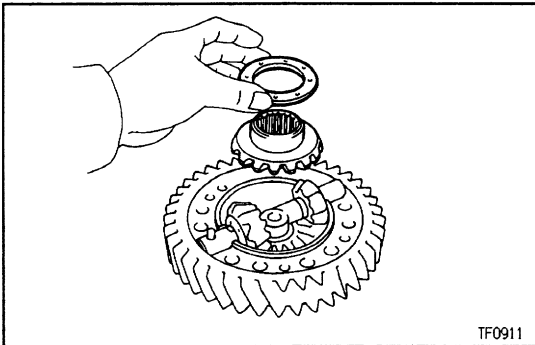
3.05 mm (0.1201 in.)

- Measure the rear case backlash.

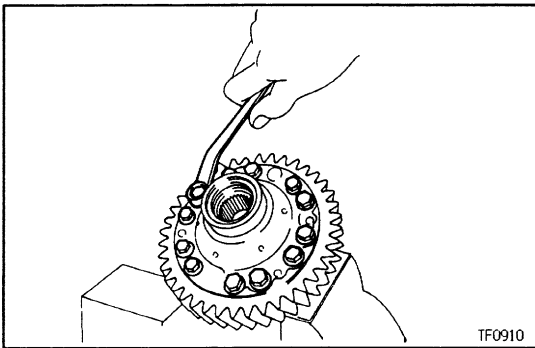
(See steps 3 to 4 on page [TR-24](#))



3. INSTALL STRAIGHT PIN

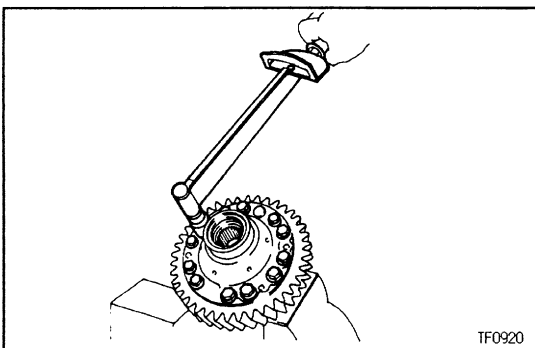


4. INSTALL REAR SIDE GEAR AND THRUST WASHER



5. INSTALL DIFFERENTIAL REAR CASE

Install the differential rear case and set bolts.

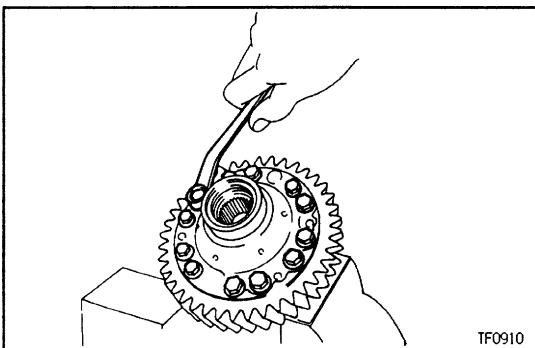


6. TORQUE REAR CASE SET BOLTS

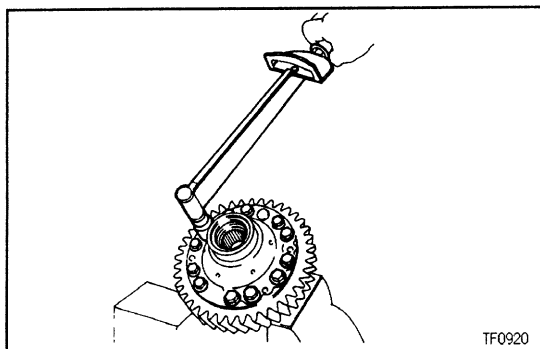
(a) Torque the rear case set bolts.

Torque: 88 N-m (900 kgf-cm, 65 ft-lbf)

(b) Turn the pinion gear.



(c) Loosen the rear case set bolts.

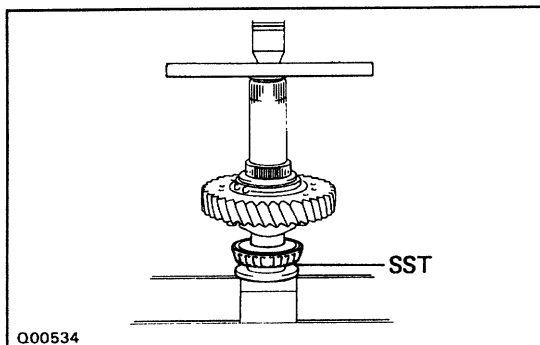


(d) Torque the rear case set bolts.

Torque: 98 N-m (1,000 kgf-cm, 72 ft-lbf)

7. (W/ABS)

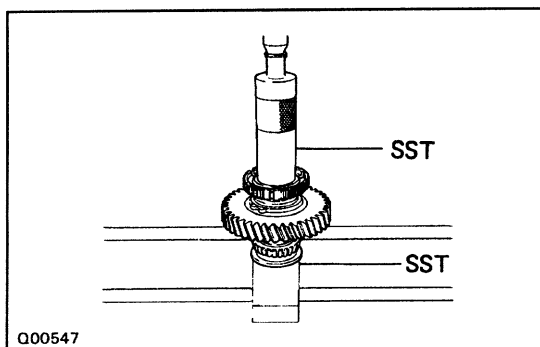
INSTALL NEEDLE ROLLER BEARING AND SNAP RING



8. INSTALL REAR TAPER ROLLER BEARING

Using SST and a press, install the rear taper roller bearing.

SST 09316-12010

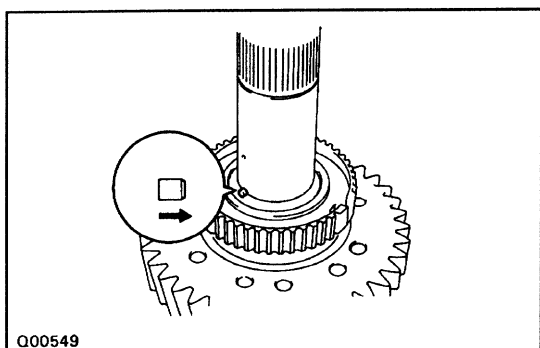


9. INSTALL CLUTCH HUB

Using SST and a press, install the clutch hub.

SST 09316-60010 (09316-60010)

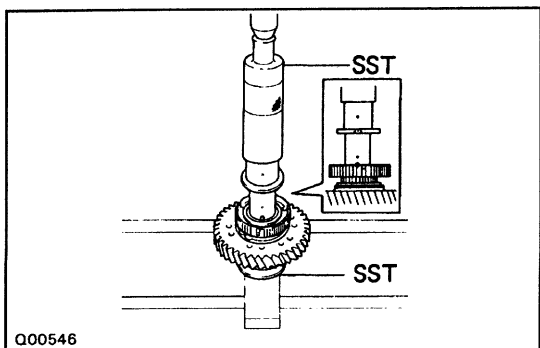
09316-12010



10. INSTALL HIGH SPEED OUTPUT GEAR BUSHING

(a) Apply MP grease to the straight pin.

(b) Install the straight pin.

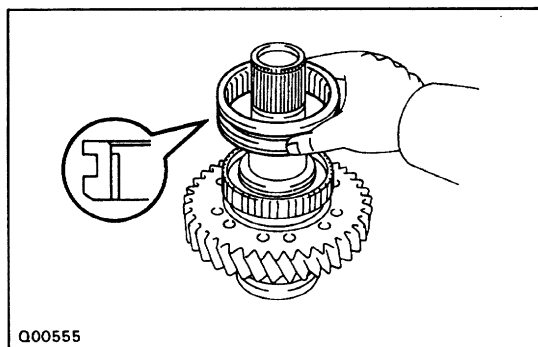
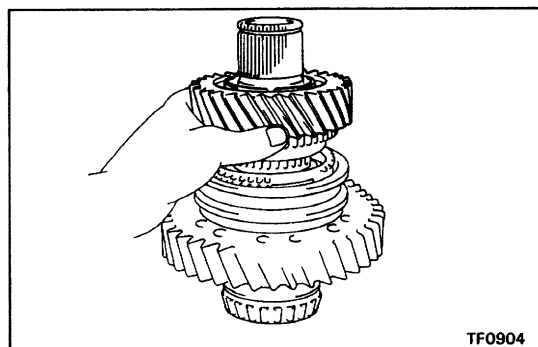


(c) Using SST and a press, install the high speed bushing.

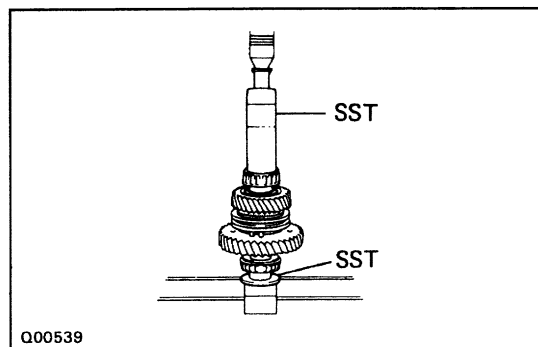
SST 09316-60010 (09316-00010),

09316-12010

NOTICE: Before pressing, align the holes on the bushing and shaft so that the pin on the shaft aligned with the cutting portion of the bushing.

**11. INSTALL HIGH AND LOW CLUTCH SLEEVE****12. INSTALL HIGH SPEED OUTPUT GEAR AND NEEDLE ROLLER BEARING**

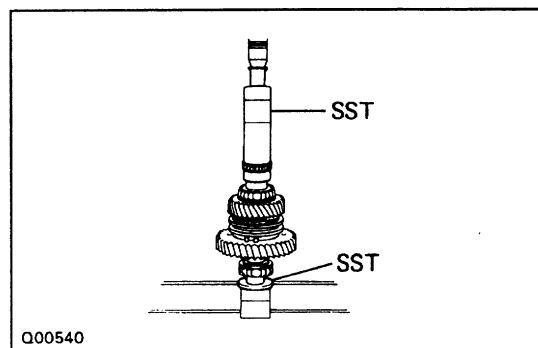
- (a) Apply gear oil to the needle roller bearing.
- (b) Place the synchronizer ring on the gear and install the high speed output gear and needle roller bearing.

**13. INSTALL FRONT TAPER ROLLER BEARING**

Using SST and a press, install the front taper roller bearing.

SST 09316-60010 (09316-60010)

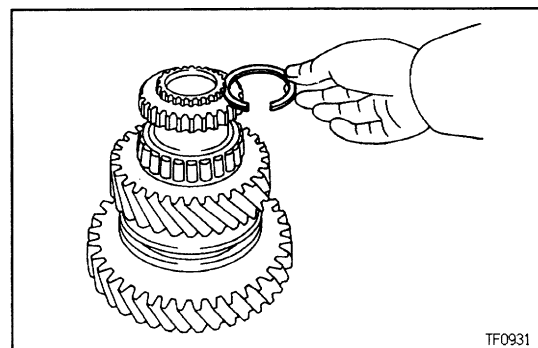
09316-12010

**14. INSTALL FRONT DRIVE GEAR PIECE**

Using SST and a press, install the front drive gear piece.

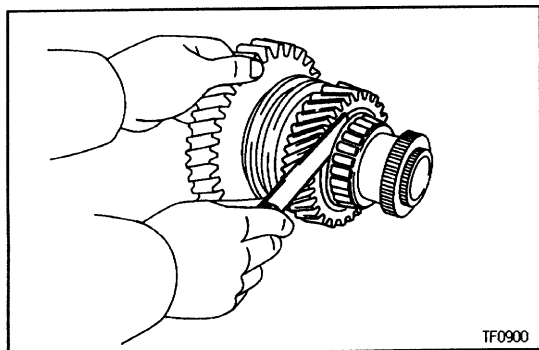
SST 09316-60010 (09316-00010)

09316-12010

**15. INSTALL SNAP RING**

Select a snap ring that will allow minimum axial play and install it on the shaft.

Mark	Thickness mm (in.)
A	2.00 (0.0787)
B	2.10 (0.0827)
C	2.20 (0.0866)
D	2.30 (0.0906)
E	2.40 (0.0945)
F	2.50 (0.0984)
G	2.60 (0.1024)
H	2.70 (0.1063)
J	2.80 (0.1102)
K	1.80 (0.0709)
L	1.90 (0.0748)



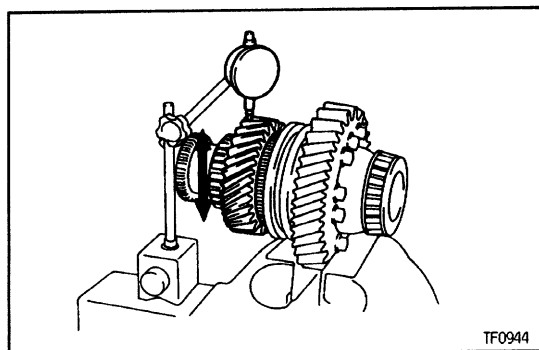
16. MEASURE OIL CLEARANCE AND THRUST CLEARANCE OF HIGH SPEED GEAR THRUST CLEARANCE

- (a) Using a feeler gauge, measure the high speed gear thrust clearance.

Standard clearance: 0.10–0.25 mm

(0.0039–0.0098 in.)

Maximum clearance: 0.25 mm (0.0098 in.)



- (b) Using a dial indicator, measure the high speed gear oil clearance.

Standard clearance: 0.015–0.071 mm

(0.0006–0.0028 in.)

Maximum clearance: 0.071 mm (0.0028 in.)