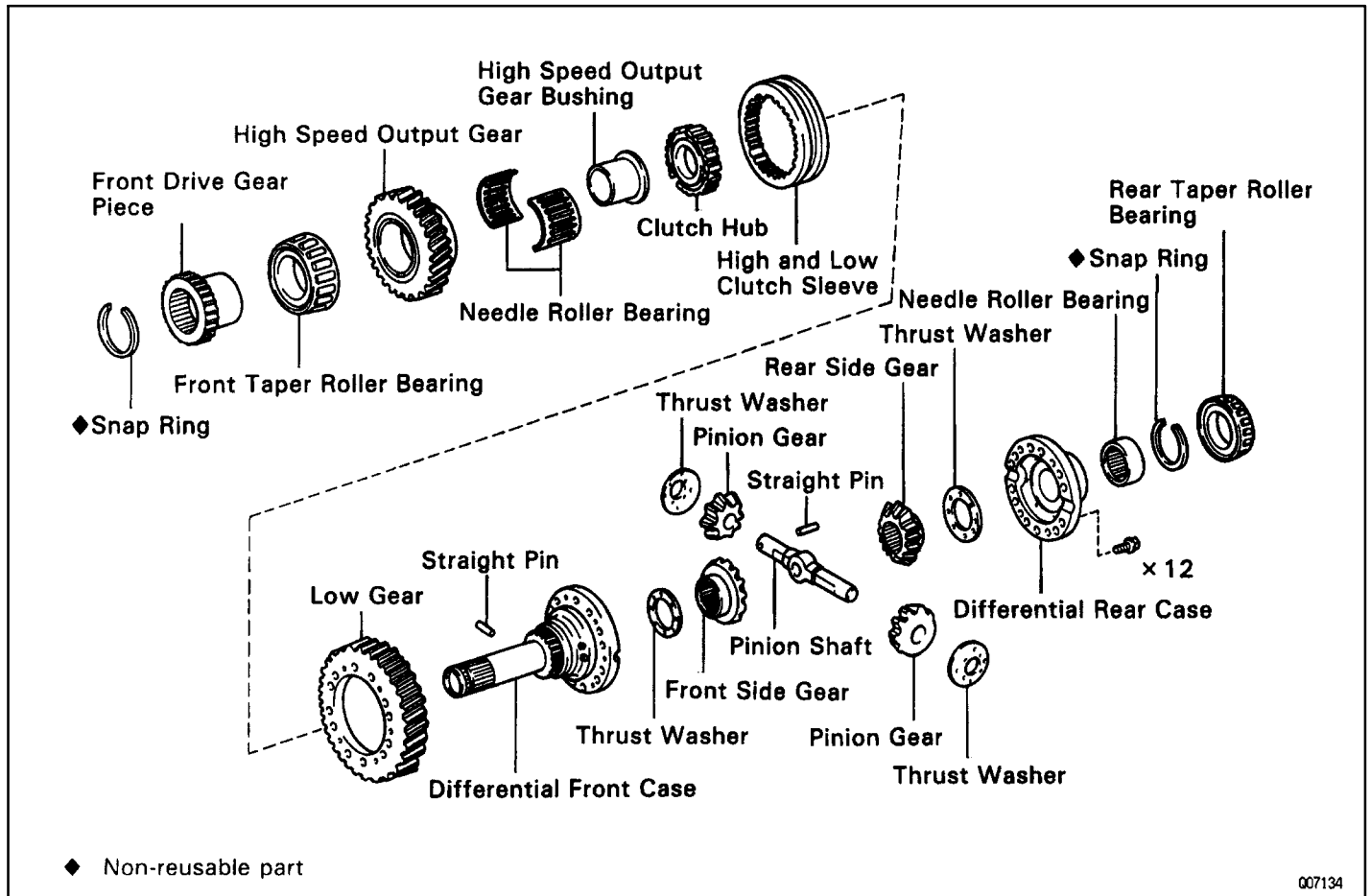
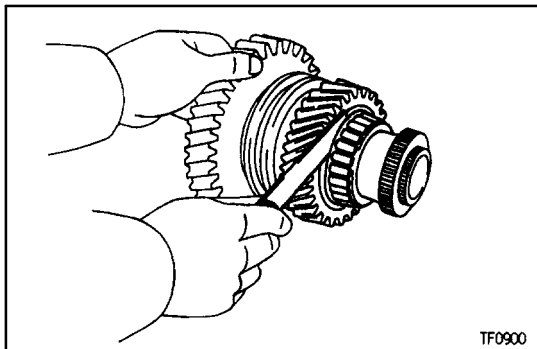


CENTER DIFFERENTIAL ASSEMBLY COMPONENTS



007134



CENTER DIFFERENTIAL DISASSEMBLY

1. INSPECT HIGH SPEED OUTPUT GEAR RADIAL AND THRUST CLEARANCE

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

Standard clearance:

0.28–0.43 mm (0.0110–0.0169 in.)

Maximum clearance:

0.43 mm (0.0169 in.)

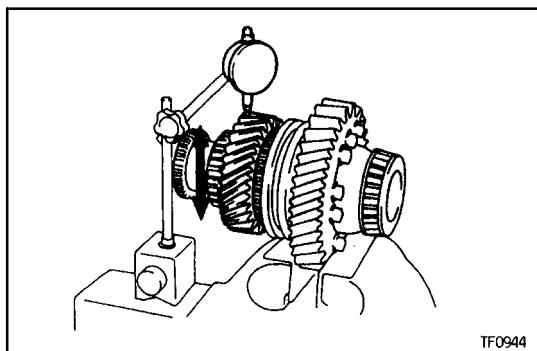
- (b) Using a dial indicator, measure the high speed output gear radial clearance.

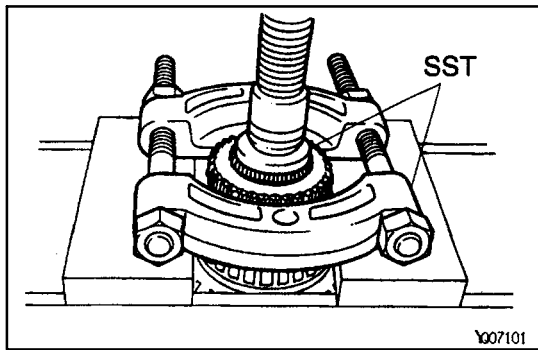
Standard clearance:

0.019–0.068 mm (0.0008–0.0027 in.)

Maximum clearance:

0.068 mm (0.0027 in.)

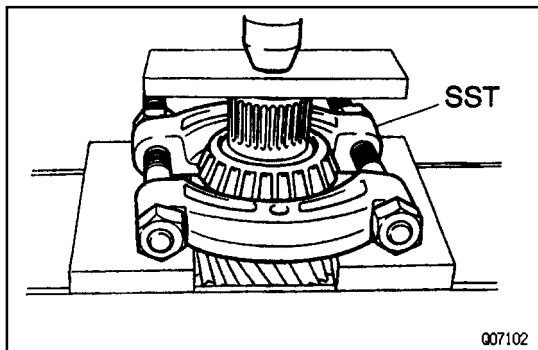




2. REMOVE FRONT DRIVE GEAR PIECE

- (a) Using a snap ring expander, remove the snap ring.
- (b) Using SST and a press, remove the front drive gear piece. SST 09950-00020, 09950-60010 (09951-00320)

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



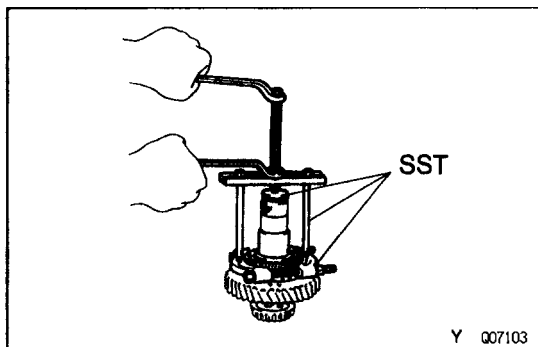
3. REMOVE FRONT TAPER ROLLER BEARING

Using SST and a press, remove the front taper roller bearing. SST 09950-00020

4. REMOVE HIGH SPEED OUTPUT GEAR

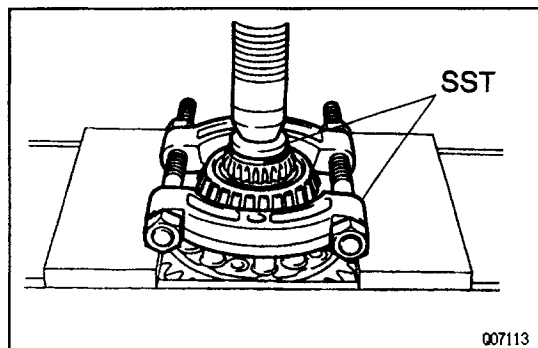
5. REMOVE NEEDLE ROLLER BEARING

6. REMOVE HIGH AND LOW CLUTCH SLEEVE ASSEMBLY



7. REMOVE HIGH SPEED OUTPUT GEAR BUSHING AND CLUTCH HUB

- (a) Using SST and a press, remove the high speed output gear bushing and clutch hub. SST 09550-00020, 09950-00030, 09950-60010 (09951-00320)
- (b) Using a magnetic finger, remove the straight pin from the differential front case.



8. REMOVE REAR TAPER ROLLER BEARING

Using SST and a press, remove the rear taper roller bearing. SST 09950-00020, 09950-60010 (09951-00320)

9. REMOVE DIFFERENTIAL REAR CASE

Remove the 12 bolts and differential rear case.

10. REMOVE REAR SIDE GEAR AND THRUST WASHER

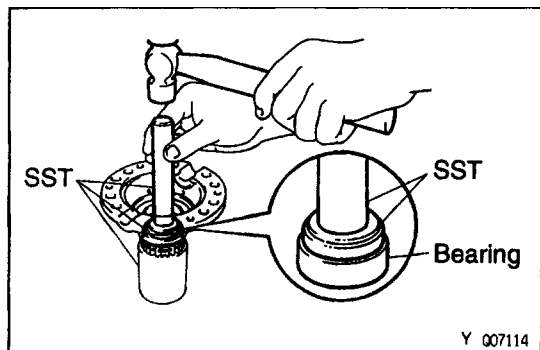
11. REMOVE PINION SHAFT, PINION GEAR AND THRUST WASHER

- (a) Remove the straight pin from the pinion shaft.
- (b) Remove the pinion shaft, pinion gear and thrust washer.
- (c) Remove the front side gear and thrust washer.

12. REMOVE LOW GEAR

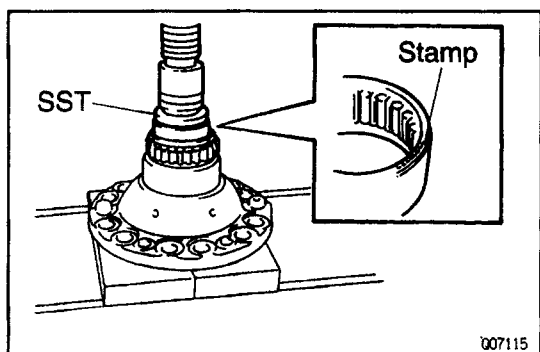
Using a plastic hammer, tap and remove the low gear.

NOTICE: Be careful do not damage the low gear.



13. REMOVE NEEDLE ROLLER BEARING

- (a) Using a screwdriver, remove the snap ring.
- (b) Using SST and a hammer, remove the needle roller bearing from the differential rear case.
SST 09223-00010, 09608-12010 (09608-00020, 09608-00040)



CENTER DIFFERENTIAL ASSEMBLY

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

1. INSTALL NEEDLE ROLLER BEARING

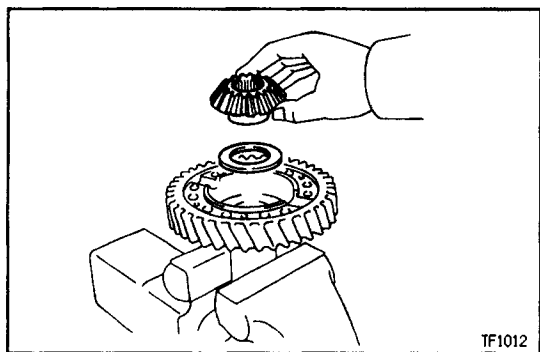
- (a) Using SST and a press, install the needle roller bearing to the differential rear case.
SST 09612-10050

HINT: Install the bearing to the differential rear case taking care that its stamped side comes in contact with SST.

- (b) Install the snap ring.

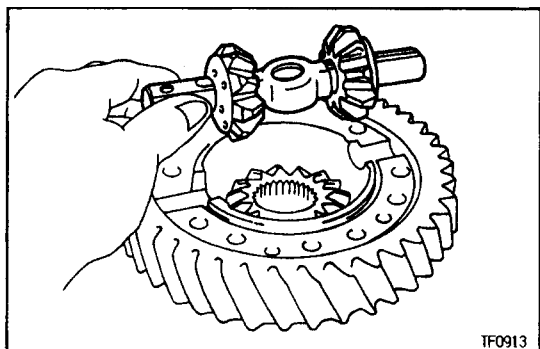
2. INSTALL LOW GEAR

- (a) Clean the contact surface of the differential case.
- (b) Heat the low gear in boiling water.
- (c) Carefully remove the low gear from the water.
- (d) After the moisture on the low gear has completely evaporated, quickly install the low gear to the differential case.

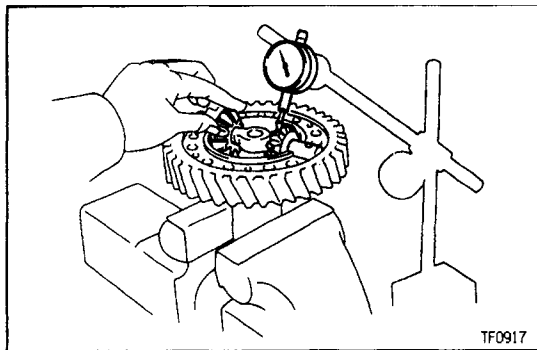


3. INSTALL PINION SHAFT, PINION GEAR AND THRUST WASHER

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



- (b) Install the 2 pinion gears and thrust washers to the differential front case.



- (c) 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 mm (in.)	Thickness mm (in.)
1.70 (0.0669)	2.45 (0.0965)
1.85 (0.0728)	2.60 (0.1024)
2.00 (0.0787)	2.75 (0.1083)
2.15 (0.0846)	2.90 (0.1142)
2.30 (0.0906)	3.05 (0.1201)

- (d) Measure the rear case backlash.
(See steps 4 to 5)

4. INSTALL STRAIGHT PIN TO PINION SHAFT

5. INSTALL REAR SIDE GEAR AND THRUST WASHER

6. INSTALL DIFFERENTIAL REAR CASE

Install the differential rear case and 12 set bolts.

7. TORQUE REAR CASE SET BOLTS

- (a) Torque the rear case 12 set bolts.

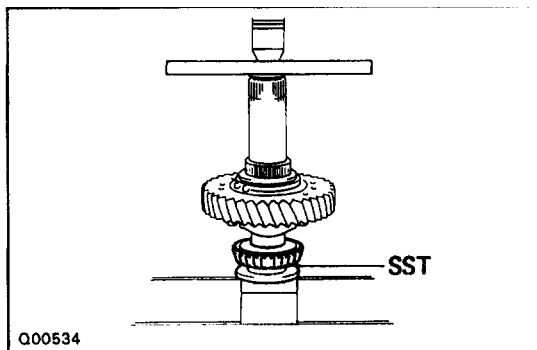
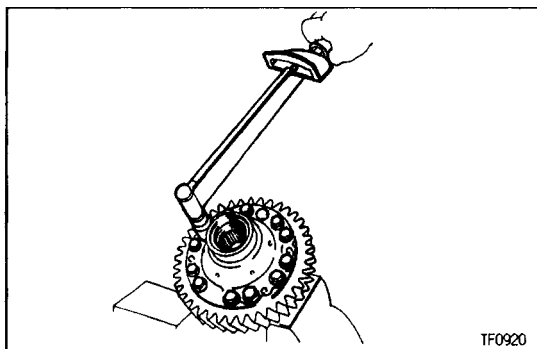
Torque: 88 N·m (900 kgf·cm, 65 ft·lbf)

- (b) Turn the pinion gear.

- (c) Loosen the rear case 12 set bolts.

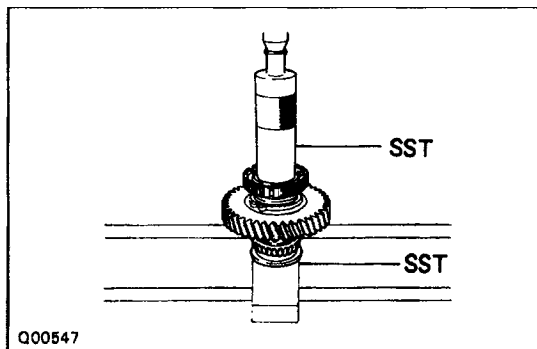
- (d) Torque the rear case 12 set bolts.

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



8. INSTALL REAR TAPER ROLLER BEARING

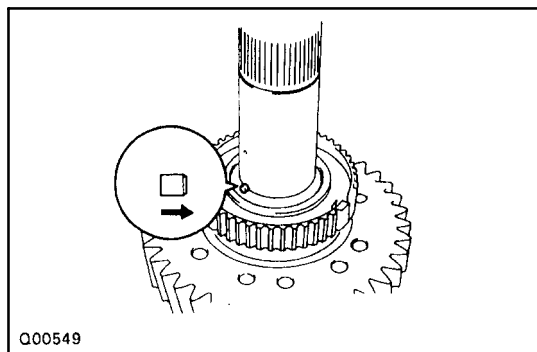
Using SST and a press, install the rear taper roller bearing.
SST 09316-12010



9. INSTALL CLUTCH HUB

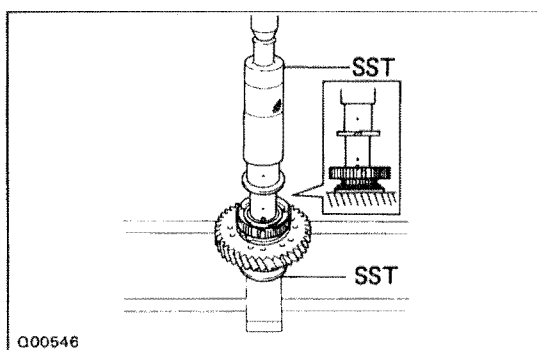
Using SST and a press, install the clutch hub.

SST 09316-12010, 09316-60010 (09316-00010)



10. INSTALL HIGH SPEED OUTPUT GEAR BUSHING

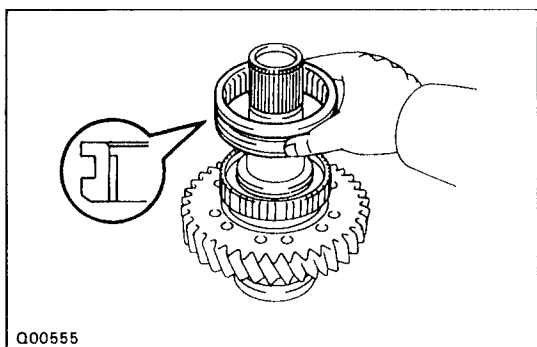
- (a) Apply MP grease to the straight pin.
- (b) Install the straight pin, as shown.



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

SST 09316-12010, 09316-60010 (09316-00010)

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.

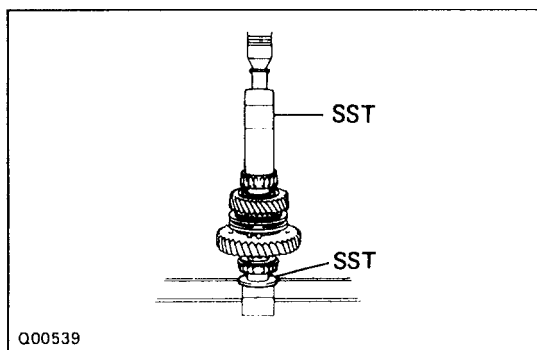


11. INSTALL HIGH AND LOW CLUTCH SLEEVE

HINT: Make sure to install the high and low clutch sleeve in the correct direction.

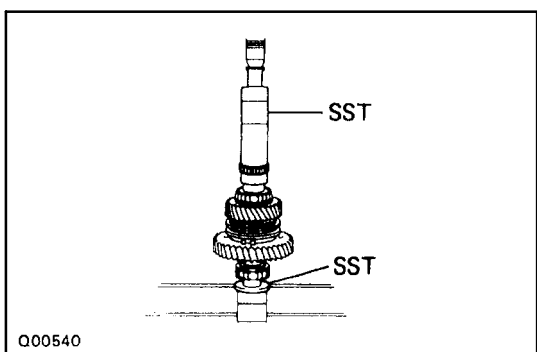
12. INSTALL HIGH SPEED OUTPUT GEAR AND NEEDLE ROLLER BEARING

- (a) Apply gear oil to the needle roller bearing.
- (b) Install the high speed output gear and needle roller bearing.



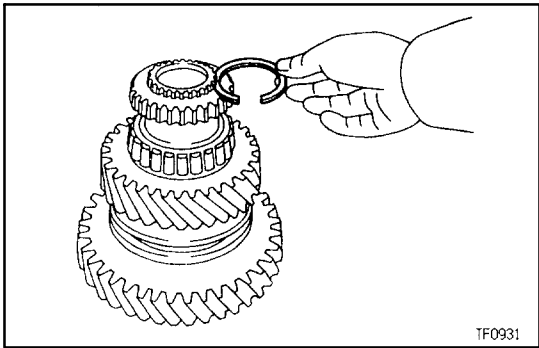
13. INSTALL FRONT TAPER ROLLER BEARING

Using SST and a press, install the front taper roller bearing.
SST 09316-12010, 09316-60010 (09316-00010)



14. INSTALL FRONT DRIVE GEAR PIECE

Using SST and a press, install the front drive gear piece.
SST 09316-12010, 09316-60010 (09316-00010)



15. INSTALL SNAP RING

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

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

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

16. INSPECT HIGH SPEED OUTPUT GEAR RADIAL AND THRUST CLEARANCE

(See page [TR-17](#))