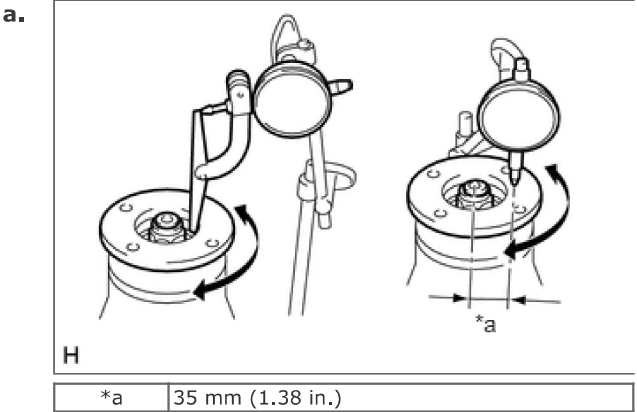


PROCEDURE

1.INSPECT RUNOUT OF REAR DRIVE PINION COMPANION FLANGE



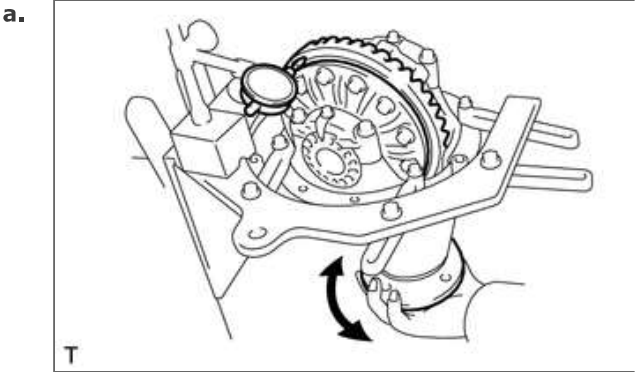
Using a dial indicator, measure the runout of the companion flange vertically and laterally.

Maximum Runout:

Runout	Specified Condition
Vertical runout	0.10 mm (0.00394 in.)
Lateral runout	0.10 mm (0.00394 in.)

If the runout is more than the maximum, replace the companion flange.

2.INSPECT RUNOUT OF DIFFERENTIAL RING GEAR



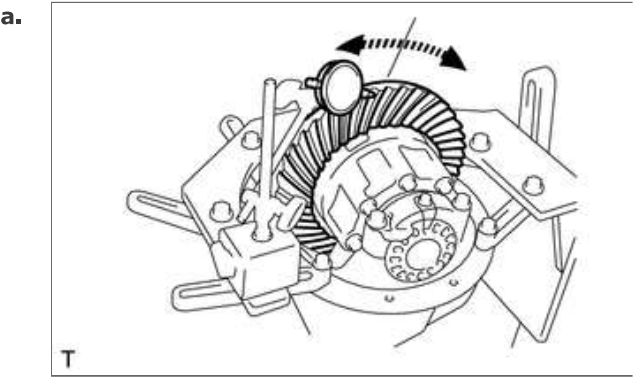
Using a dial indicator, measure the ring gear runout.

Maximum runout:

0.05 mm (0.00197 in.)

If the runout is more than the maximum, replace the ring gear.

3.INSPECT DIFFERENTIAL RING GEAR BACKLASH



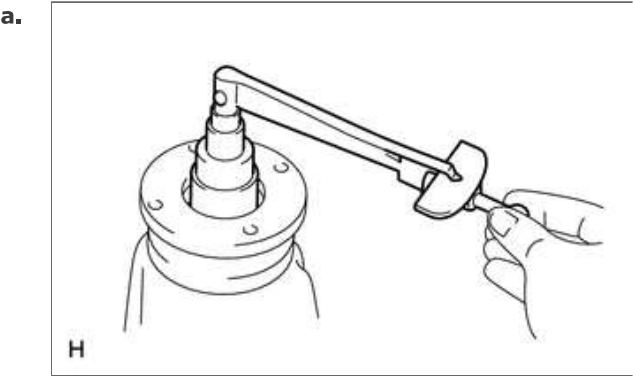
Using a dial indicator, measure the ring gear backlash.

Standard backlash:
0.10 to 0.20 mm (0.00394 to 0.00787 in.)

If the backlash is not as specified, adjust the side bearing preload or repair as necessary.

HINT:
Measure at 3 or more positions around the circumference of the ring gear.

4.INSPECT DIFFERENTIAL DRIVE PINION PRELOAD



Using a torque wrench, measure the preload of the backlash between the drive pinion and ring gear.

Standard drive pinion preload (at starting):
0.85 to 1.37 N*m (9 to 13 kgf*cm, 8 to 12 in.*lbf)

If necessary, disassemble and inspect the differential.

5.REMOVE REAR DRIVE PINION COMPANION FLANGE NUT

41204G

Click here[Drivetrain>AXLE AND DIFFERENTIAL>REAR DIFFERENTIAL CARRIER OIL SEAL>REPLACEMENT](#)

6.REMOVE REAR DRIVE PINION COMPANION FLANGE SUB-ASSEMBLY WITH DUST DEFLECTOR

41204

Click here[Drivetrain>AXLE AND DIFFERENTIAL>REAR DIFFERENTIAL CARRIER OIL SEAL>REPLACEMENT](#)

7.REMOVE REAR DIFFERENTIAL CARRIER OIL SEAL

41201C

Click here[Drivetrain>AXLE AND DIFFERENTIAL>REAR DIFFERENTIAL CARRIER OIL SEAL>REPLACEMENT](#)

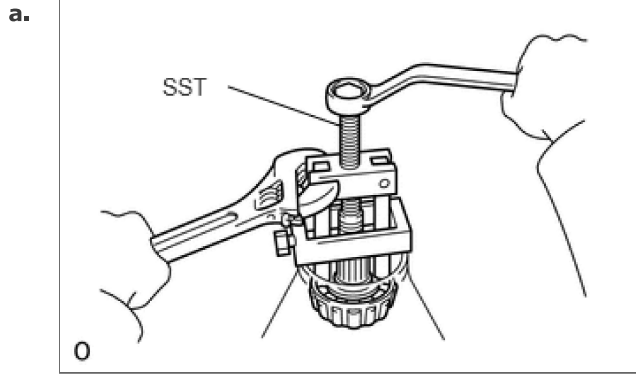
8.REMOVE REAR DIFFERENTIAL DRIVE PINION OIL SLINGER

41214

Click here[Drivetrain>AXLE AND DIFFERENTIAL>REAR DIFFERENTIAL CARRIER OIL SEAL>REPLACEMENT](#)

9.REMOVE REAR DRIVE PINION FRONT TAPERED ROLLER BEARING

41201B



Using SST, remove the rear drive pinion front tapered roller bearing (inner race) from the differential drive pinion.

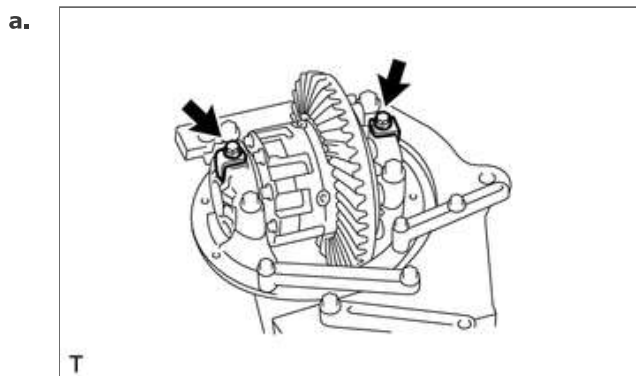
SST

09556-22010

If the rear drive pinion front tapered roller bearing is damaged or worn, replace the rear drive pinion front tapered roller bearing.

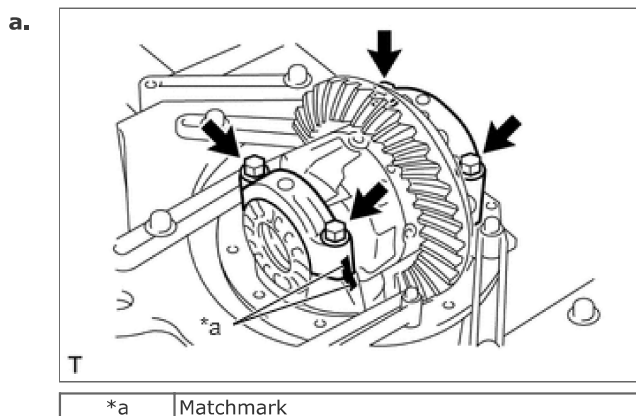
10.REMOVE REAR DIFFERENTIAL BEARING ADJUSTING NUT LOCK

41316



Remove the 2 bolts and 2 rear differential bearing adjusting nut locks.

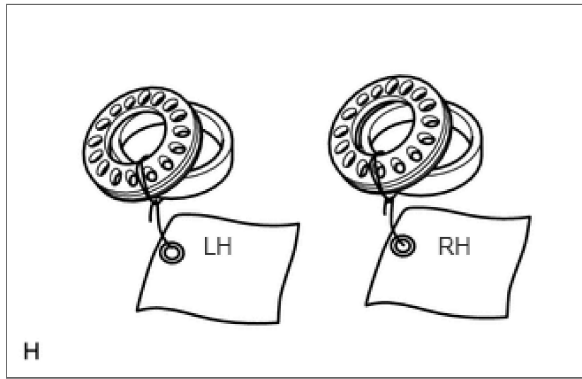
11.REMOVE DIFFERENTIAL CASE ASSEMBLY



Place matchmarks on the bearing caps and differential carrier.

b. Remove the 4 bolts, 2 bearing caps and 2 rear differential bearing adjusting nuts.

c.



Remove the differential case and 2 rear differential case bearings (outer race) from the differential carrier.

HINT:

Tag the 2 rear differential case bearings (outer race) to show the location for reassembly.



12.REMOVE DIFFERENTIAL DRIVE PINION

- a. Remove the differential drive pinion from the differential carrier.



13.REMOVE REAR DIFFERENTIAL DRIVE PINION BEARING SPACER

41231

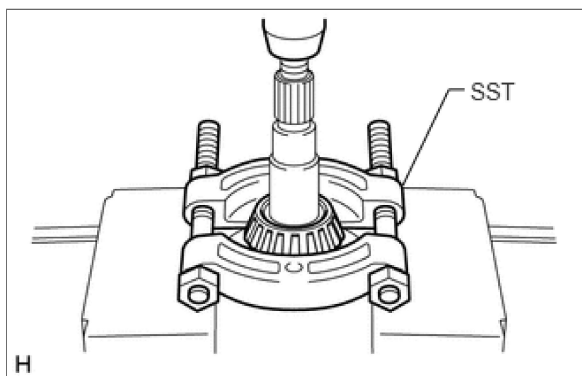
- a. Remove the rear differential drive pinion bearing spacer from the differential carrier.



14.REMOVE REAR DRIVE PINION REAR TAPERED ROLLER BEARING

41201A

a.



Using SST and a press, press out the rear drive pinion rear tapered roller bearing (inner race).

SST

09950-00020

If either the drive pinion or ring gear is damaged, replace them as a set.



15.REMOVE REAR DIFFERENTIAL DRIVE PINION PLATE WASHER

41201D

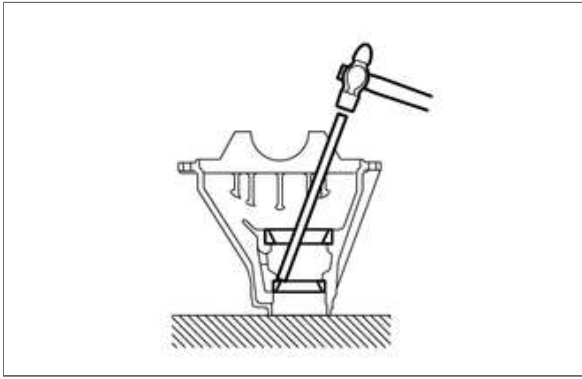
- a. Remove the rear differential drive pinion plate washer from the differential drive pinion.



16.REMOVE REAR DRIVE PINION FRONT TAPERED ROLLER BEARING

41201B

a.



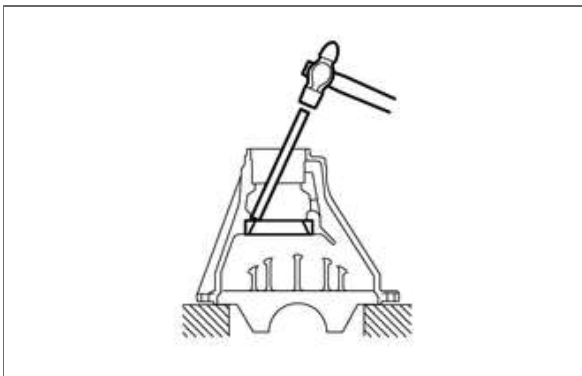
Using a brass bar and hammer, tap out the rear drive pinion front tapered roller bearing (outer race).



17.REMOVE REAR DRIVE PINION REAR TAPERED ROLLER BEARING

41201A

a.

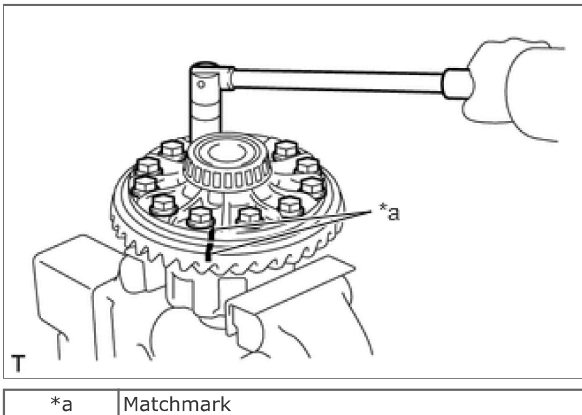


Using a brass bar and hammer, tap out the rear drive pinion rear tapered roller bearing (outer race).



18.REMOVE DIFFERENTIAL RING GEAR

a.



Place matchmarks on the differential ring gear and differential case.

b. Remove the 12 differential ring gear set bolts.

c. Using a plastic-faced hammer, tap on the differential ring gear to separate it from the differential case.



19.INSPECT RUNOUT OF DIFFERENTIAL CASE

HINT:

If the differential ring gear runout is at the maximum or less, this inspection is not necessary.

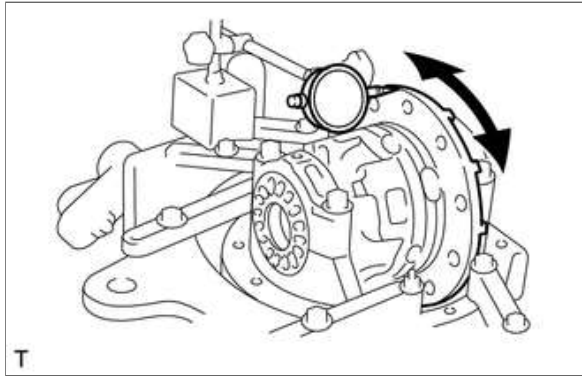
a. Install the 2 rear differential case bearings (outer race) to the differential case.

- b. Install the differential case to the differential carrier.
- c. Install the 2 rear differential bearing adjusting nuts.
- d. Install the 2 bearing caps to the differential carrier with the 4 bolts.

Torque:

90 N*m (918 kgf*cm, 66 ft.*lbf)

e.



Using a dial indicator, measure the differential case runout.

Maximum runout:

0.04 mm (0.00157 in.)

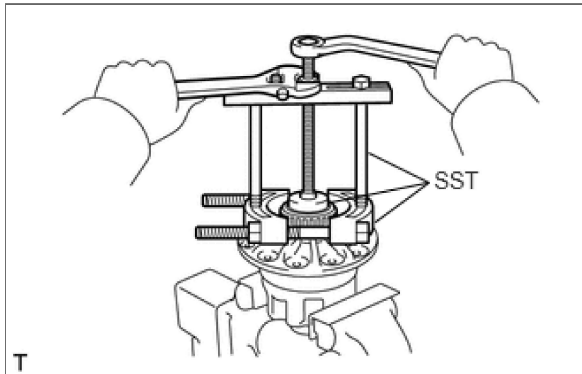
- f. Remove the 4 bolts and 2 bearing caps.
- g. Remove the 2 rear differential bearing adjusting nuts.
- h. Remove the differential case.
- i. Remove the 2 rear differential case bearings (outer race).



20.REMOVE REAR DIFFERENTIAL CASE BEARING

41301A

a.



Using SST, remove the 2 rear differential case bearings from the differential case.

SST

09950-00020

09950-00030

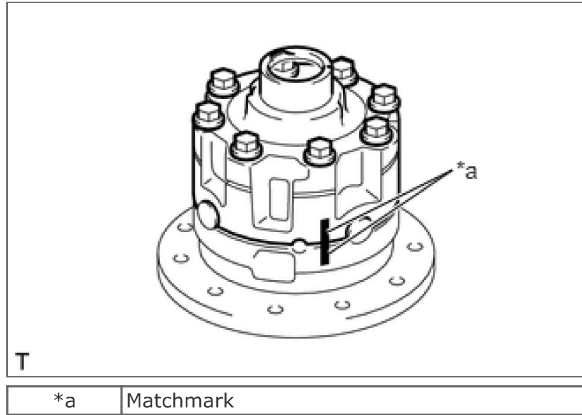
09950-40011 (09957-04010)

09950-60010 (09951-00480)



21.DISASSEMBLE DIFFERENTIAL CASE

a.



Place matchmarks on the differential case LH and RH.

- b.** Remove the 8 bolts uniformly, a little at a time.
- c.** Using a plastic-faced hammer, separate the differential case LH and RH.
- d.** Remove the 2 rear No. 1 differential side gear thrust washers, 2 rear differential side gears, rear differential spider, 4 rear differential pinions and 4 rear differential pinion thrust washers.