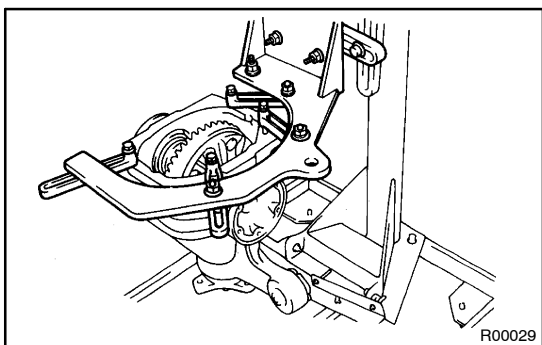


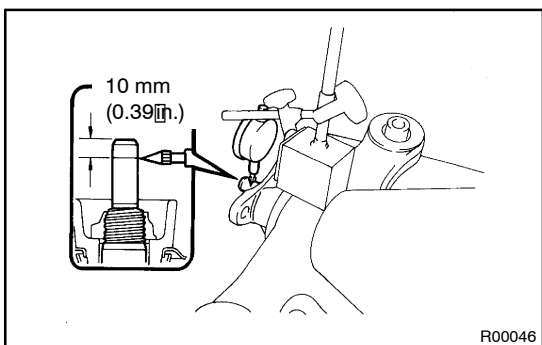
DISASSEMBLY

1. REMOVE DIFFERENTIAL CARRIER COVER

- Remove the 3 bolts from the carrier cover.
- Using a brass bar and hammer, separate the cover from carrier.
- Remove the breather plug from the differential carrier cover.



2. SET DIFFERENTIAL CARRIER TO OVERHAUL STAND, ETC., AS SHOWN

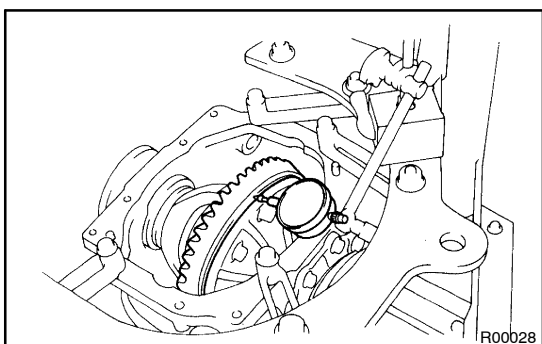


3. CHECK RUNOUT OF DRIVE PINION

Using a dial indicator, measure the runout of the drive pinion at a position 10 mm (0.39 in.) away from the end of the shaft.

Maximum runout: 0.08 mm (0.0031 in.)

If the runout is greater than the maximum, replace the drive pinion and ring gear.

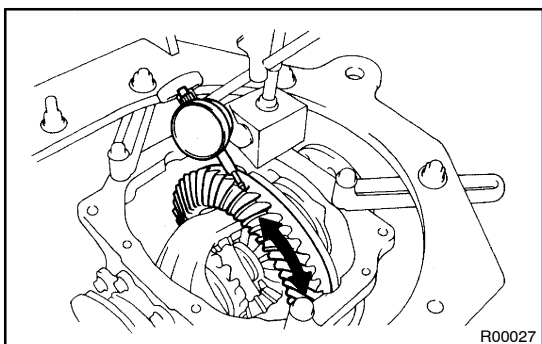


4. CHECK RING GEAR RUNOUT

Using a dial indicator, measure the ring gear runout.

Maximum runout: 0.05 mm (0.0020 in.)

If the runout is greater than the maximum, replace the drive pinion, ring gear and differential case.



5. CHECK RING GEAR BACKLASH

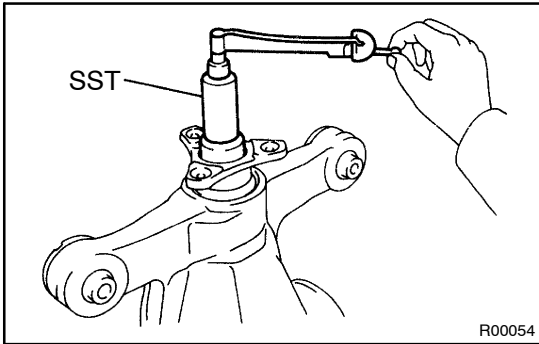
Using a dial indicator, measure the ring gear backlash at 3 points at least and check that the average value is within the specified value.

Backlash: 0.08 - 0.13 mm (0.0031 - 0.0051 in.)

NOTICE:

The difference between the maximum and minimum measured values must be less than 0.05 mm (0.0020 in.).

If the backlash is not within the specified value, adjust the backlash (See page SA-83).



6. MEASURE DRIVE PINION PRELOAD

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

Preload (at starting):

0.5 - 0.8 N·m (5 - 8 kgf·cm, 4.3 - 6.9 in.·lbf)

HINT:

For vehicles which have run less than 8,000 km (5,000 miles), the preload may be large.

SST 09229-55010

Maximum preload (at starting):

1.8 N·m (18 kgf·cm, 15.6 in.·lbf)

7. CHECK TOTAL PRELOAD

Using SST and a torque wrench, measure the preload with the teeth of the drive pinion and ring gear in contact.

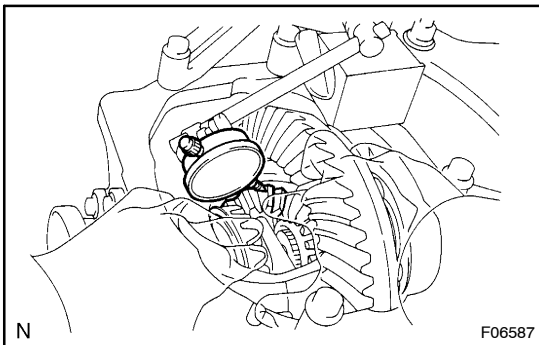
SST 09229-55010

Total preload (at starting):

Drive pinion preload plus

0.5 - 0.8 N·m (5 - 8 kgf·cm, 4.3 - 6.9 in.·lbf)

If necessary, disassemble and inspect the differential.



8. CHECK PINION GEAR BACKLASH

Using a dial indicator, measure the pinion gear backlash while holding one side gear toward the case.

Maximum: 0.15 mm (0.0059 in.)

NOTICE:

Differential gears should be able to rotate.

If the backlash is not within the specified value, install the correct thrust washer (See page SA-83).

9. CHECK TOOTH CONTACT PATTERN

(See page SA-83)

10. REMOVE SIDE GEAR SHAFTS

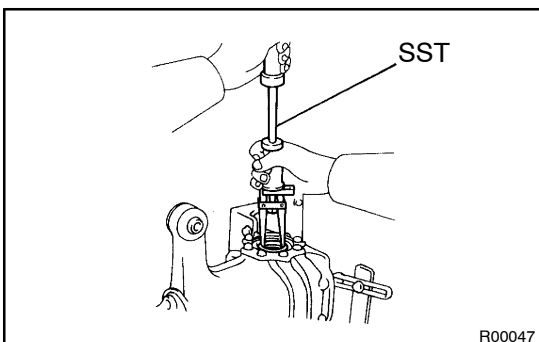
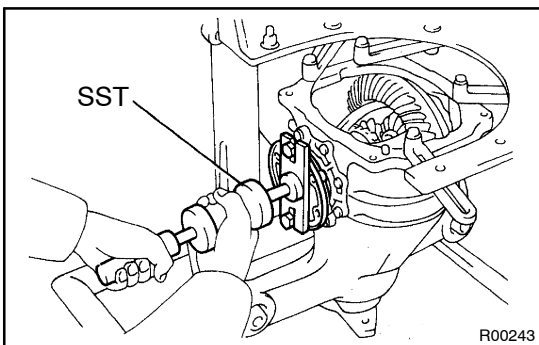
(a) Using SST, remove the 2 side gear shafts.

SST 09520-24010

NOTICE:

Be careful not to damage the oil seal.

(b) Using screwdriver, remove the 2 snap rings from the side gear shafts.



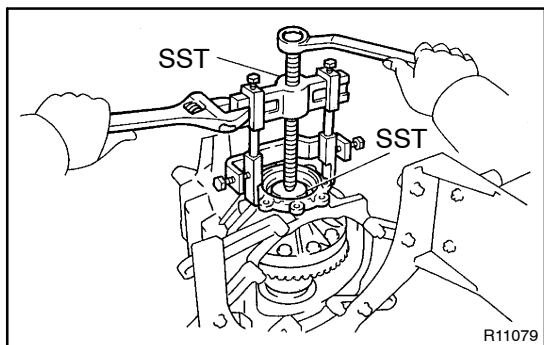
11. REMOVE SIDE GEAR SHAFT OIL SEALS

Using SST, remove the 2 oil seals.

SST 09308-00010

12. REMOVE DIFFERENTIAL CARRIER RETAINERS

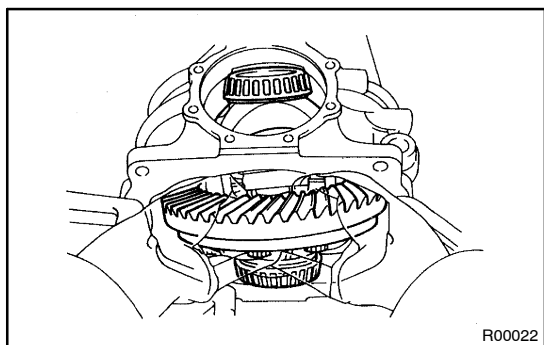
(a) Remove the 8 bolts.



- (b) Using SST, remove the differential carrier retainer and washer.

SST 09950-40011, (09951-04020, 09952-04010, 09953-04030, 09954-04010, 09955-04061, 09957-04010, 09958-04011), 09950-60010 (09951-00450)

- (c) Employ the same manner described above to the other side.

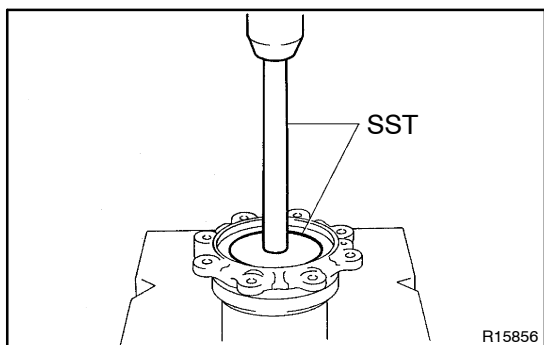


13. REMOVE DIFFERENTIAL CASE

Take the differential case out of the carrier while lifting the ring gear side, as shown in the illustration.

14. REMOVE O-RINGS FROM DIFFERENTIAL CARRIER RETAINERS

Using a screwdriver, remove the 2 O-rings.



15. REMOVE SIDE BEARING OUTER RACES AND ADJUSTING PLATE WASHERS

Using SST and a press, remove the 2 outer races and adjusting plate washers.

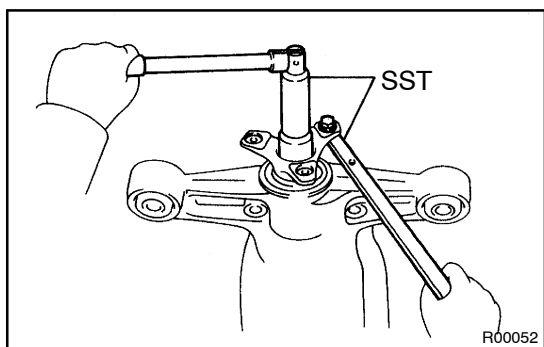
SST 09950-60020 (09951-00710), 09950-70010 (09951-07150)

16. REMOVE DRIVE PINION, SPACER AND COMPANION FLANGE

- (a) Using a chisel and hammer, loosen the staked part of the nut.

- (b) Using SST, remove the nut.

SST 09229-55010, 09330-00021

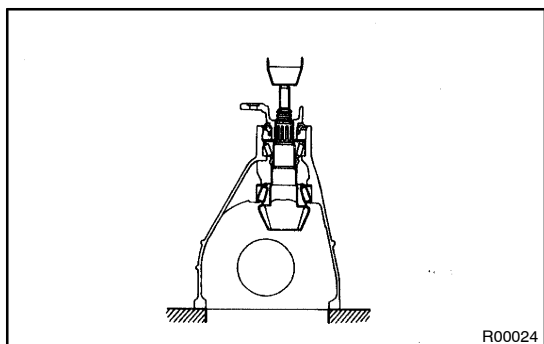


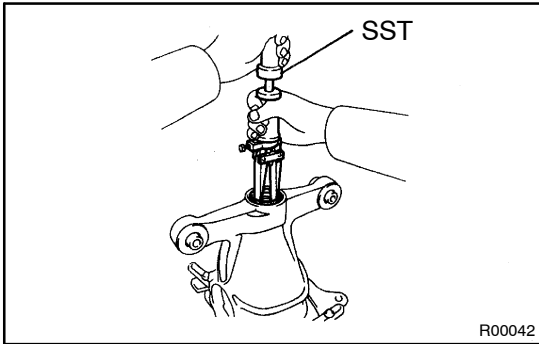
- (c) Using a press, remove the drive pinion with the rear bearing and remove the companion flange.

NOTICE:

Be careful not to drop the drive pinion.

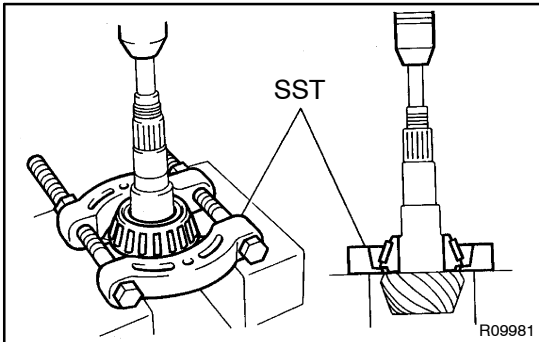
- (d) Remove the spacer from the drive pinion.



**17. REMOVE OIL SEAL**

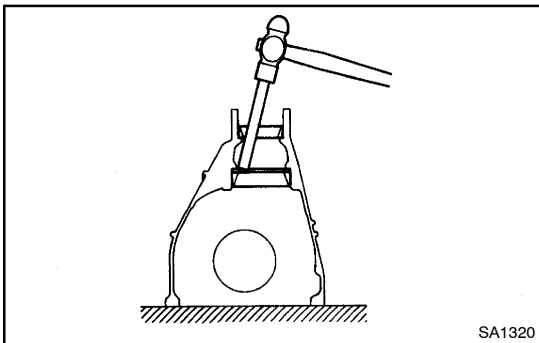
Using SST, remove the oil seal.

SST 09308-00010

18. REMOVE OIL SLINGER AND FRONT BEARING**19. REMOVE REAR BEARING FROM DRIVE PINION**

Using SST and a press, remove the rear bearing from the drive pinion.

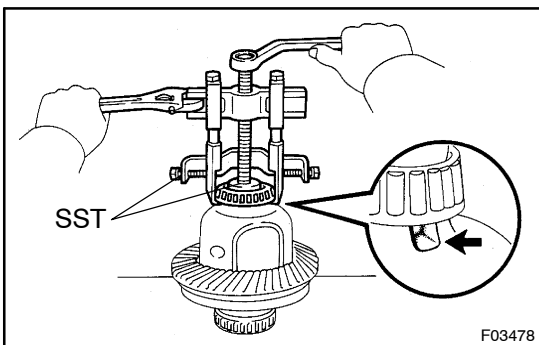
SST 09950-00020

**20. REMOVE FRONT AND REAR BEARING OUTER RACES AND ADJUSTING PLATE WASHER****NOTICE:**

Do not remove the outer race if not replacing the bearings.

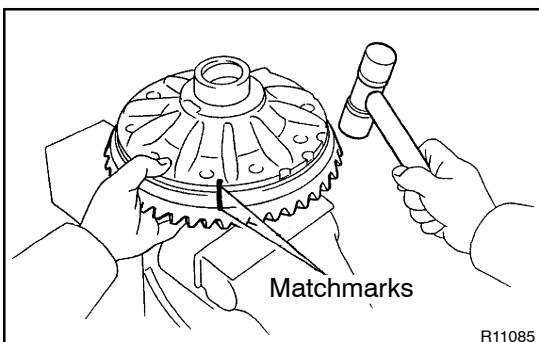
HINT:

Measure and note the washer thickness for reassembly.

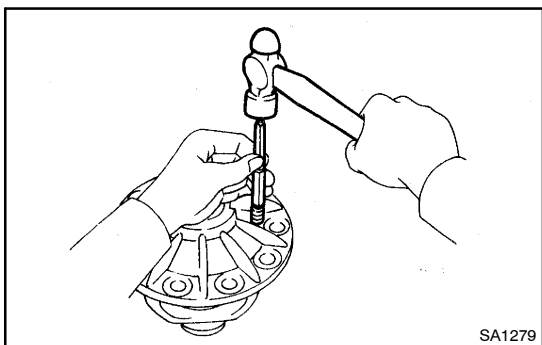
**21. REMOVE SIDE BEARINGS**

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

SST 09950-40011, (09951-04020, 09952-04010, 09953-04030, 09954-04010, 09955-04061, 09957-04010, 09958-04011), 09950-60010 (09951-00450)

**22. REMOVE RING GEAR**

- Place matchmarks on the ring gear and differential case.
- Remove the 10 ring gear set bolts.
- Using a plastic hammer, tap on the ring gear to separate it from the differential case.

**23. DISASSEMBLE DIFFERENTIAL CASE**

- (a) Using a pin punch and hammer, remove the straight pin.
- (b) Remove the pinion gear shaft, 2 pinion gears and thrust washers.
- (c) Remove the 2 side gears and thrust washers.