

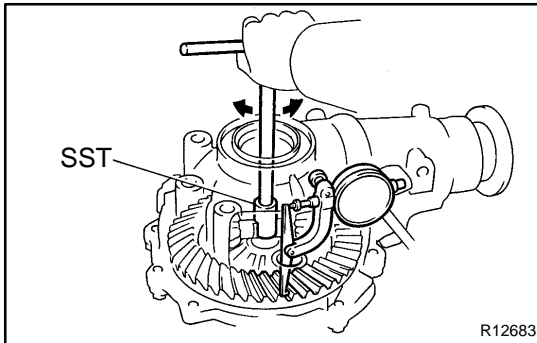
DISASSEMBLY

1. CHECK RUNOUT OF COMPANION FLANGE

Using a dial indicator, measure the vertical and lateral runout of the companion flange.

Maximum runout: 0.10 mm (0.0039 in.)

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



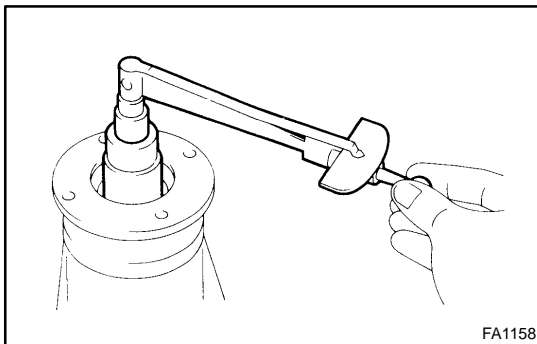
2. CHECK RING GEAR BACKLASH

Using SST and a dial indicator, measure the ring gear backlash.

SST 09564-3201 1

Backlash: 0.10 - 0.18 mm (0.0039 - 0.0071 in.)

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



3. MEASURE DRIVE PINION PRELOAD

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

Preload (at starting):

0.6 - 1.0 N·m (6 - 10 kgf·cm, 5.2 - 8.7 in.-lbf)

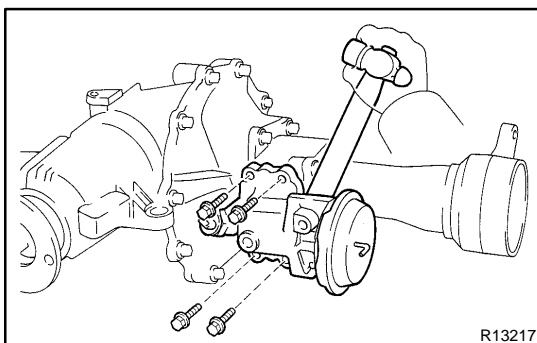
4. CHECK TOTAL PRELOAD

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

Total preload (at starting):

Drive pinion preload plus 0.4 - 0.6 N·m (4 - 6 kgf·cm, 3.5 - 5.2 in.-lbf)

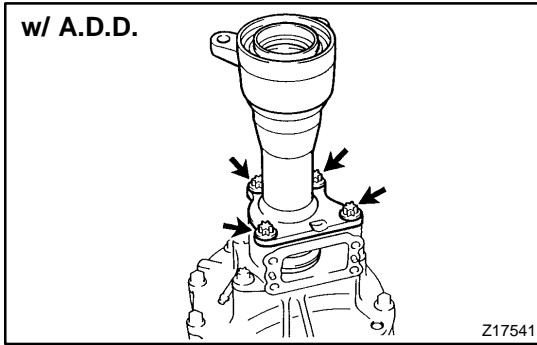
If necessary, disassemble and inspect the differential.



5. w/ A.D.D.:

REMOVE A.D.D. ACTUATOR

- Remove the 4 bolts.
- Using a hammer handle, remove the actuator.

**6. w/ A.D.D.:****REMOVE DIFFERENTIAL TUBE**

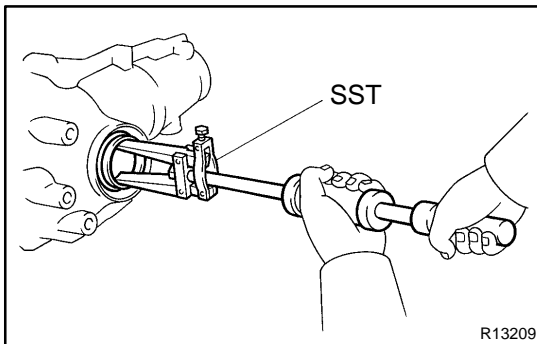
- Using a torx socket E14, remove the 4 torx bolts.
- Using a plastic hammer, remove the differential tube.
- Remove the sleeve.
- Remove the O-ring from the differential tube.

7. w/o A.D.D.:**REMOVE DIFFERENTIAL TUBE**

- Remove the 4 bolts.
- Using a plastic hammer, remove the differential tube.

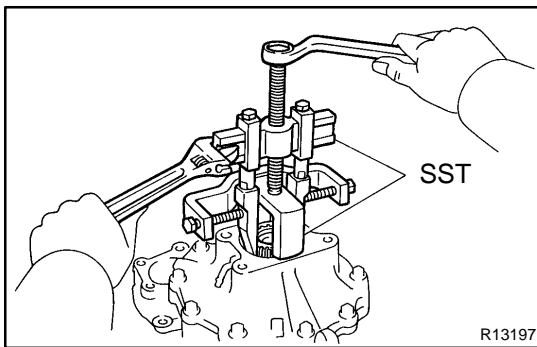
8. w/ A.D.D.:**REMOVE CLUTCH CASE**

- Using a torx socket E14, remove the 2 torx bolts.
- Using a plastic hammer, remove the clutch case.

**9. REMOVE SIDE OIL SEAL**

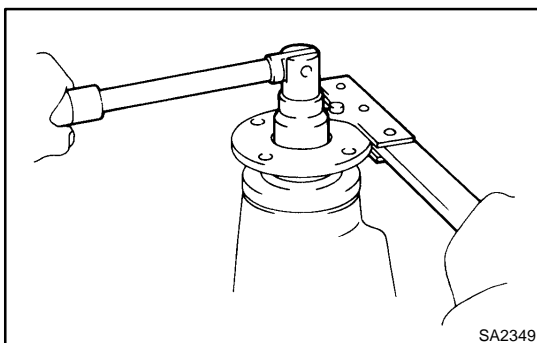
Using SST, remove the side oil seal.

SST 09308-00010

**10. w/ A.D.D.:****REMOVE INTERMEDIATE SHAFT NO. 1**

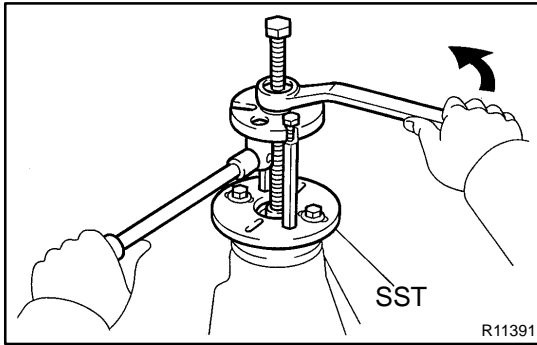
Using SST, remove the intermediate shaft No. 1.

SST 09350-20015 (09369-20040),
09950- 40011 (09951- 04010, 09952- 04010,
09953- 04020, 09954- 04010, 09955- 04011,
09957-04010, 09958-04011)

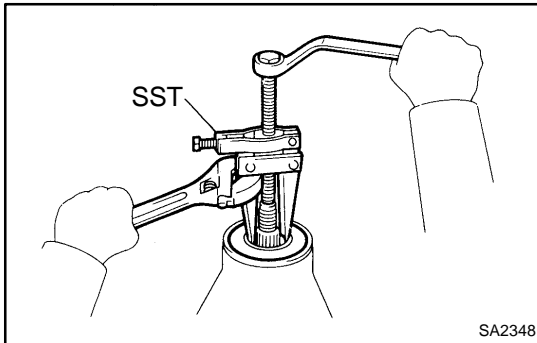
**11. REMOVE COMPANION FLANGE**

- Using a chisel and hammer, unstake the nut.
- Using SST to hold the flange, remove the nut.

SST 09330-00021

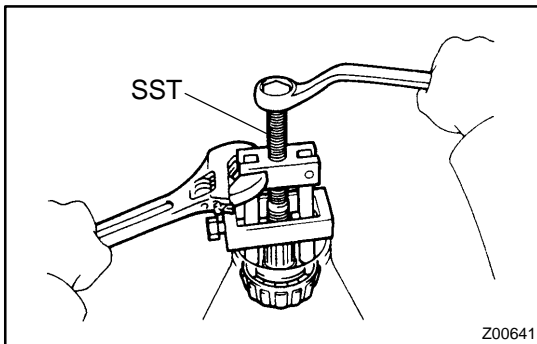


- (c) Using SST, remove the companion flange.
SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03030, 09956-03020)



12. REMOVE OIL SEAL AND OIL SLINGER

- (a) Using SST, remove the oil seal.
SST 09308-10010
(b) Remove the oil slinger.



13. REMOVE REAR BEARING AND BEARING SPACER

- (a) Using SST, remove the rear bearing from the drive pinion.
SST 09556-22010
(b) Remove the bearing spacer.

14. REMOVE SIDE BEARING RETAINER

Remove the 10 bolts and tap out the retainer with a plastic hammer.

15. REMOVE DIFFERENTIAL CASE ASSEMBLY

16. REMOVE DRIVE PINION FROM DIFFERENTIAL CARRIER

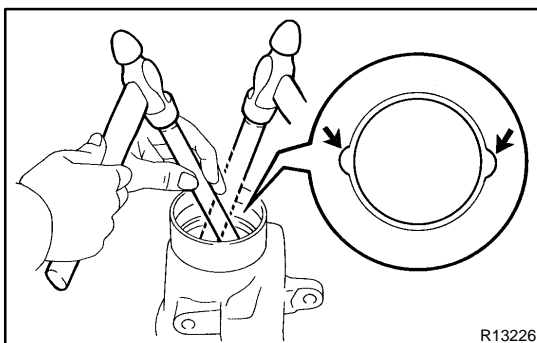
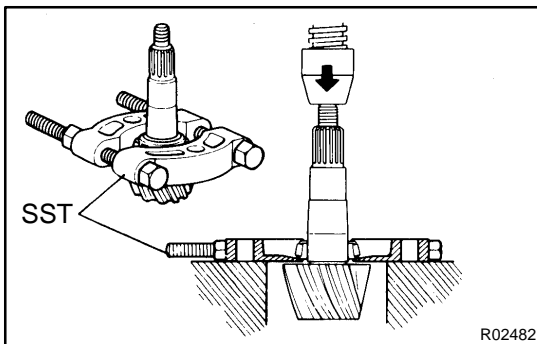
17. REMOVE DRIVE PINION FRONT BEARING

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

SST 09950-00020

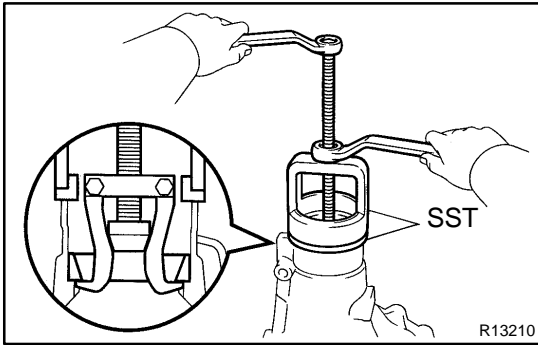
HINT:

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

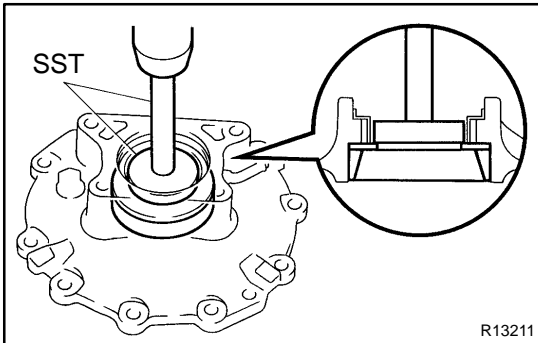


18. REMOVE DRIVE PINION BEARING OUTER RACES

- (a) Using a brass bar and hammer, remove the front bearing outer race.



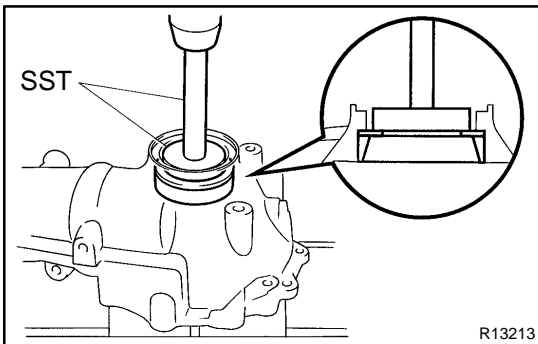
- (b) Using SST, remove the rear bearing outer race.
SST 09502-12010, 09612-65014 (09612-01020, 09612-01050)



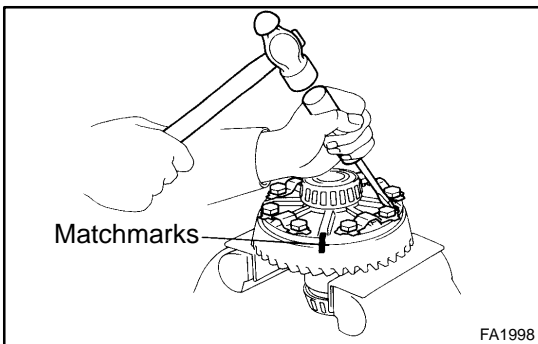
19. REMOVE SIDE BEARING OUTER RACES

HINT:

- Measure the plate washer and note the thickness.
 - Tag the bearing outer races to show the location for reassembly.
- (a) Using SST and a press, remove the outer race and plate washer from the bearing retainer.
SST 09950-60010 (09951-00540), 09950-70010 (09951-07150)

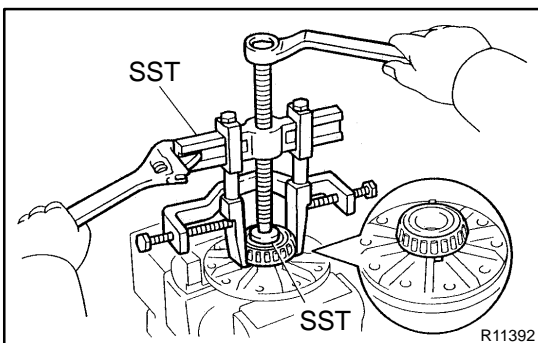


- (b) Using SST and a press, remove the outer race and plate washer from the differential carrier.
SST 09950-60010 (09951-00650), 09950-70010 (09951-07150)



20. REMOVE RING GEAR

- (a) Place matchmarks on the ring gear and differential case.
(b) Using a screwdriver, unstick the 5 lock plates.
(c) Remove the 10 bolts and 5 lock plates.
(d) Using a plastic hammer, tap on the ring gear to separate it from the differential case.



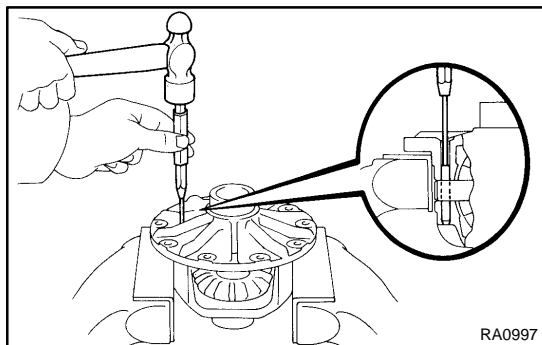
21. REMOVE SIDE BEARINGS

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

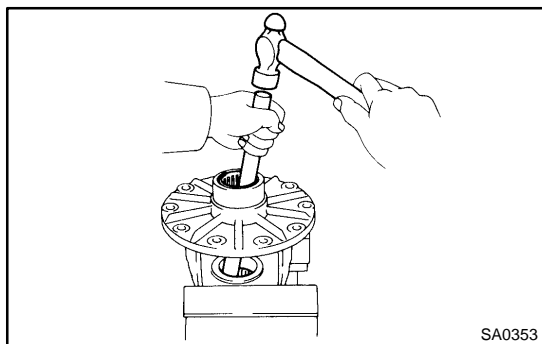
SST 09950-40011 (09951-04010, 09952-04010, 09953-04020, 09954-04010, 09955-04061, 09957-04010, 09958-04011), 09950-60010 (09951-00480)

HINT:

Fix the claws of SST to the notch in the differential case.

**22. DISASSEMBLE DIFFERENTIAL CASE ASSEMBLY**

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

**23. w/ A.D.D.:
REMOVE BEARINGS**

Using a brass bar and hammer, remove the 2 bearings.