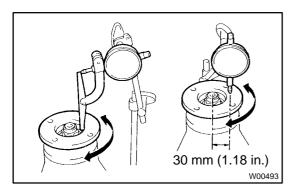
SA09P-08



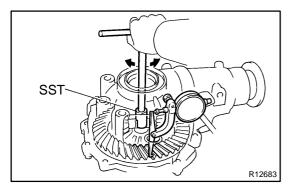
DISASSEMBLY

1. CHECK COMPANION FLANGE RUNOUT

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 exceeds the maximum, replace the companion flange.



2. CHECK RING GEAR BACKLASH

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

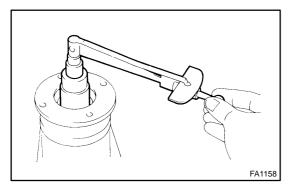
SST 09564-32011

Backlash: 0.13 - 0.18 mm (0.0051 - 0.0071 in.)

HINT:

Measure at 3 or more points on the circumference of the ring gear.

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



3. MEASURE DRIVE PINION PRELOAD

Using a torque wrench, measure the preload using the 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)

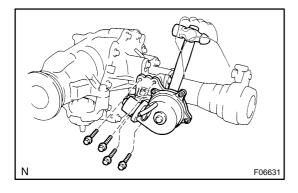
4. CHECK TOTAL PRELOAD

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

Total preload (at starting):

Drive pinion preload plus $0.4 - 0.6 \text{ N} \cdot \text{m} (4 - 6 \text{ kgf} \cdot \text{cm}, 3.5 - 5.2 \text{ in.-lbf})$

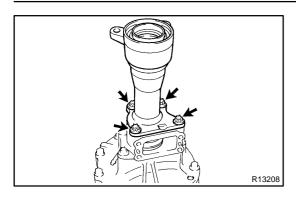
If necessary, disassemble and inspect the differential.

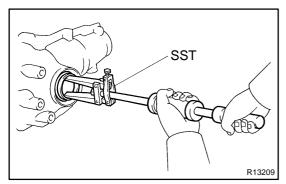


5. REMOVE A.D.D. ACTUATOR

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

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- (a) Using a torx socket (E14), remove the 4 torx bolts.
- (b) Using a plastic hammer, tap on the differential tube to remove it.
- (c) Remove the sleeve.
- (d) Remove the O-ring from the differential tube.

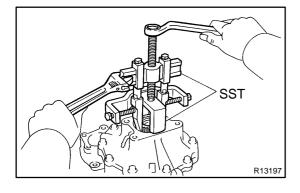
7. REMOVE CLUTCH CASE

- (a) Using a torx socket (E14), remove the 2 torx bolts.
- (b) Using a plastic hammer, tap on the clutch case to remove it.

8. REMOVE SIDE OIL SEAL

Using SST, remove the side oil seal.

SST 09308-00010

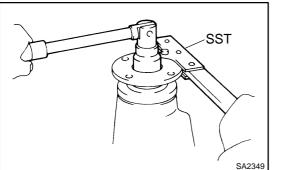


9. REMOVE INTERMEDIATE SHAFT NO. 1

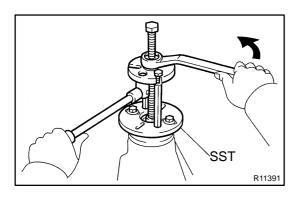
- (a) Using SST, remove the intermediate shaft No. 1.
 SST 09350–20015 (09369–20040), 09950–40011 (09951–04010, 09952–04010, 09953–04020, 09954–04010, 09955–04011, 09957–04010, 09958–04011)
- (b) Remove the snap ring.

10. REMOVE COMPANION FLANGE

(a) Using a chisel and hammer, unstake the nut.

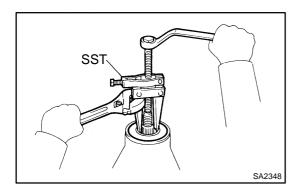


(b) Using SST to hold the flange, remove the nut. SST 09330-00021



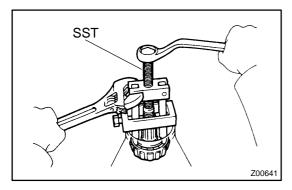
(c) Using SST, remove the companion flange. SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03030, 09956-03020)

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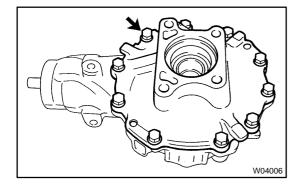
11. REMOVE OIL SEAL AND OIL SLINGER

- (a) Using SST, remove the oil seal. SST 09350–32014 (09308–10010)
- (b) Remove the oil slinger.



12. REMOVE REAR BEARING AND BEARING SPACER

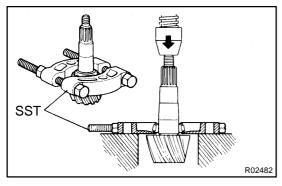
- (a) Using SST, remove the rear bearing from the drive pinion. SST 09556–22010
- (b) Remove the bearing spacer.



13. REMOVE SIDE BEARING RETAINER

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

- 14. REMOVE DIFFERENTIAL CASE ASSEMBLY
- 15. REMOVE DRIVE PINION FROM DIFFERENTIAL CAR-RIER



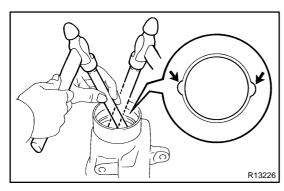
16. REMOVE DRIVE PINION FRONT BEARING

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

SST 09950-00020

HINT:

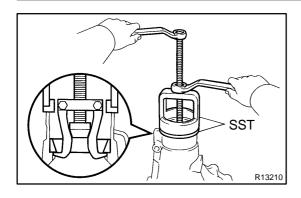
If the drive pinion or ring gear is damaged, replace them as a set.



17. REMOVE DRIVE PINION BEARING OUTER RACES

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

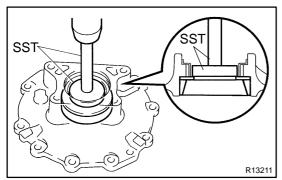
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(b) Using SST, remove the rear bearing outer race. SST 09502–12010, 09612–65014 (09612–01020, 09612–01050)

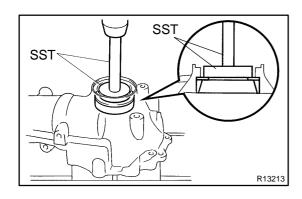
18. REMOVE SIDE BEARING OUTER RACES HINT:

- Measure the plate washer thickness and note it down.
- Tag the bearing outer races to show the location for reassembling.



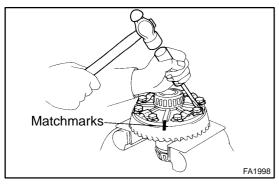
(a) Using SST and a press, remove the plate washer and outer race from the bearing retainer.

SST 09950-60010 (09951-00540), 09950-70010 (09951-07150)



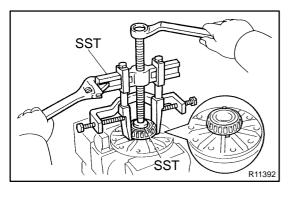
(b) Using SST and a press, remove the plate washer and outer race from the differential carrier.

SST 09950-60010 (09951-00650), 09950-70010 (09951-07150)



19. REMOVE RING GEAR

- (a) Place matchmarks on the ring gear and differential case.
- (b) Using a screwdriver and hammer, unstake 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.



20. REMOVE SIDE BEARINGS

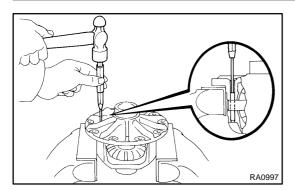
Using SST, remove the 2 side bearings from the differential case.

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

HINT:

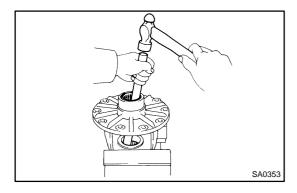
Fix the claws of SST to the notch in the differential case.

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21. DISASSEMBLE DIFFERENTIAL CASE ASSEMBLY

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



22. REMOVE BEARINGS

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