REAR DIFFERENTIAL FRONT OIL SEAL

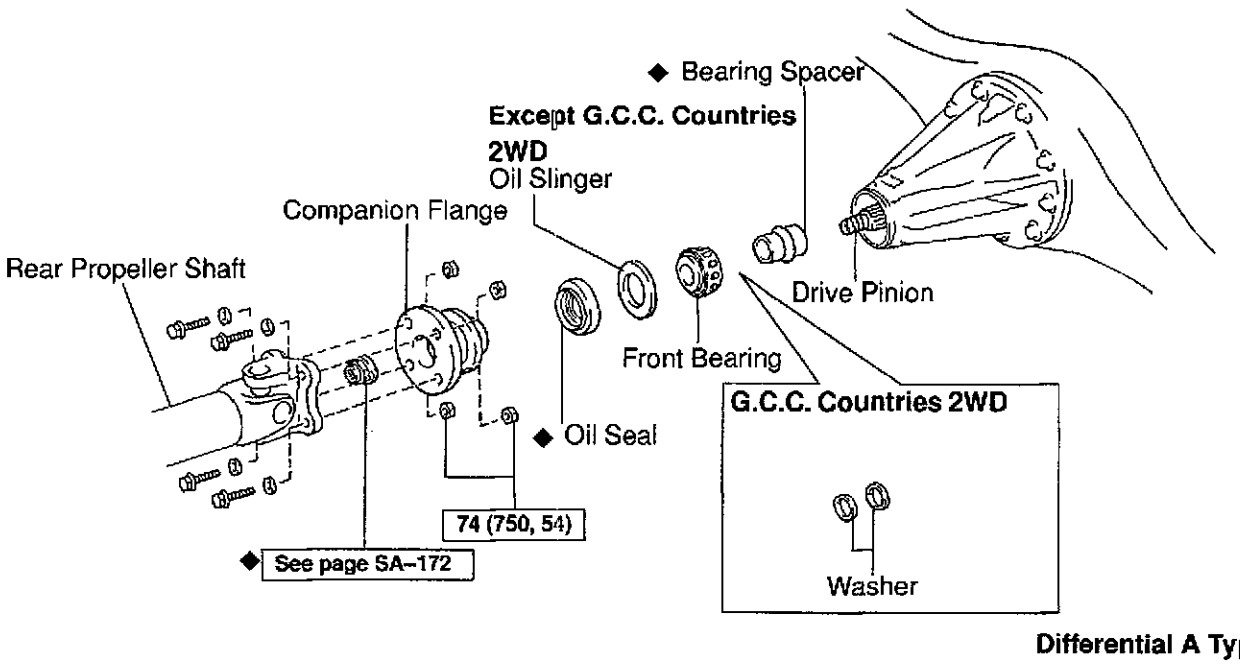
COMPONENTS

HINT:

Prerunner is the model described below.

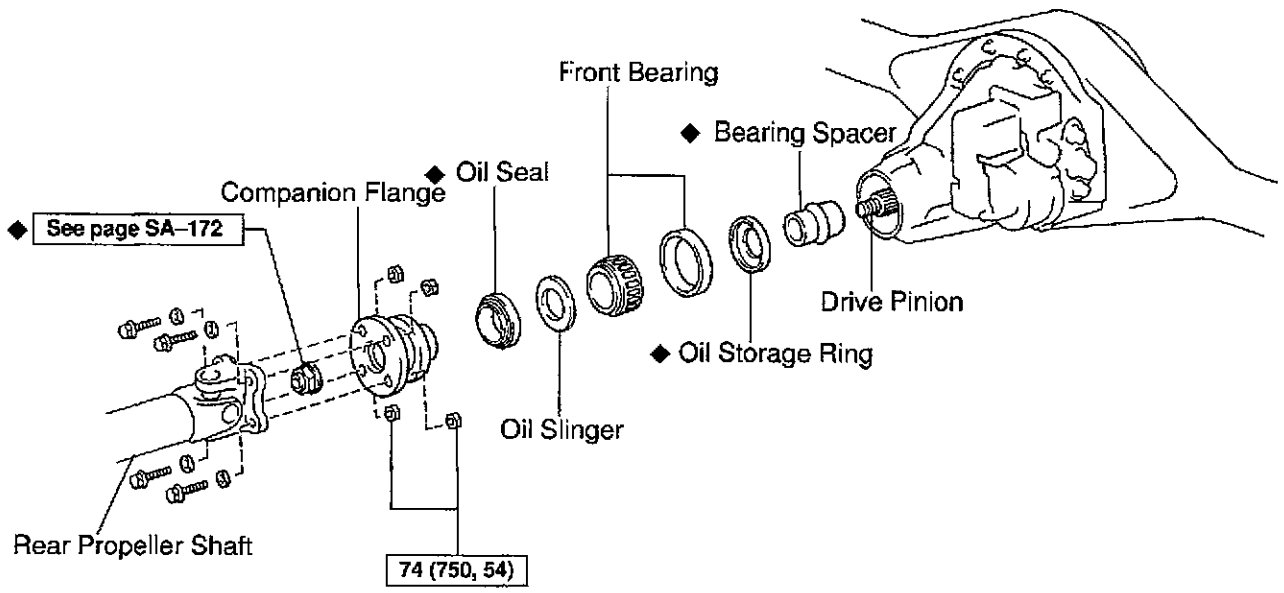
RZN193L–PRMDK, LN191L–PRMDS

1RZ, 3RZ–F 2WD, 2RZ–FE 2WD, 2L, 3L, 5L, 3RZ–FE A/T



Differential A Type

3RZ–F 4WD, 3RZ–FE M/T, 2L–T, 2RZ–FE 4WD and Prerunner



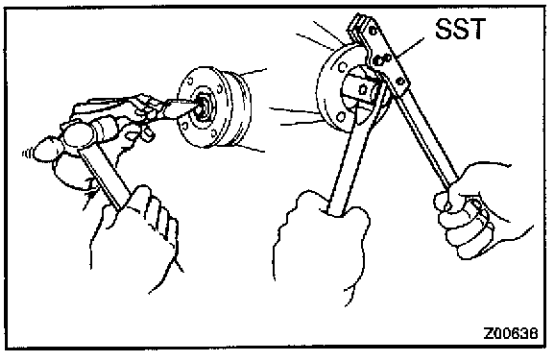
Differential B Type

N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non–reusable part

F02513

SA0BE-02

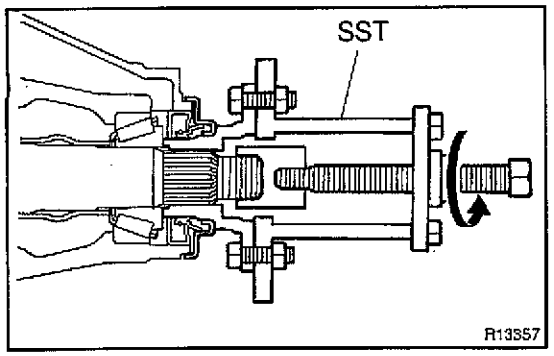


REPLACEMENT

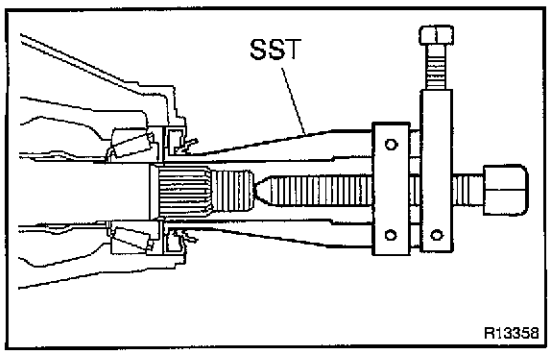
1. **DRAIN HYPOID GEAR OIL**
2. **REMOVAL REAR PROPELLER SHAFT**
   2WD: See page PR–3
   4WD: See page PR–11
3. **REMOVE COMPANION FLANGE**

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

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



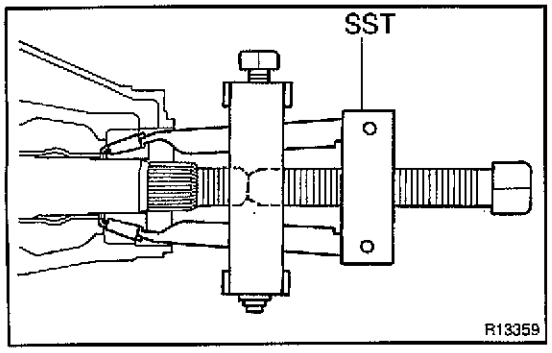
(c) Using SST, remove the companion flange.
SST 09950–30010 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03030, 09956–03050)



4. **REMOVE OIL SEAL**

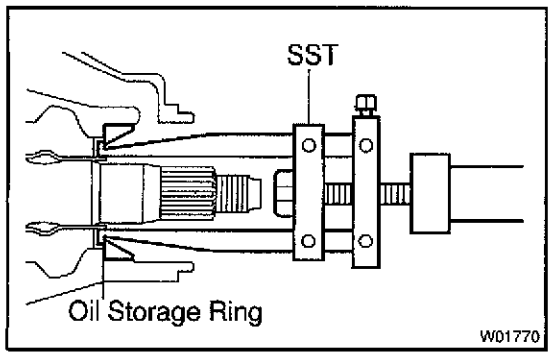
Using SST, remove the oil seal.
SST 09308–10010

5. **Except Differential A Type G.C.C. Countries 2WD: REMOVE OIL SLINGER**



6. **REMOVE FRONT BEARING**

Using SST, remove the front bearing from the drive pinion.
SST 09556–22010



7. Differential B Type:
REMOVE FRONT BEARING OUTER RACE AND OIL STORAGE RING

(a) Using SST, remove the front bearing outer race.
SST 09308–00010

(b) Using a screwdriver, bend the oil storage ring and remove it.

8. REMOVE BEARING SPACER

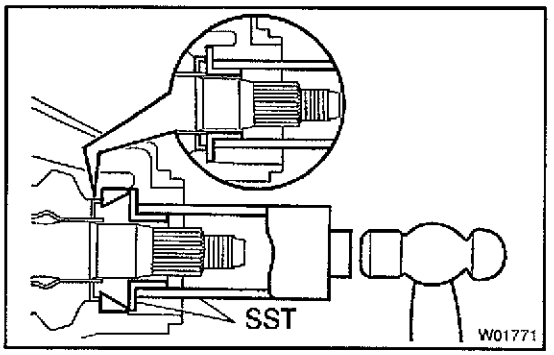
(a) Differential A type G.C.C. countries 2WD:
Remove the 2 washers.

(b) Remove the bearing spacer.

9. INSTALL NEW BEARING SPACER

(a) Install a new bearing spacer.

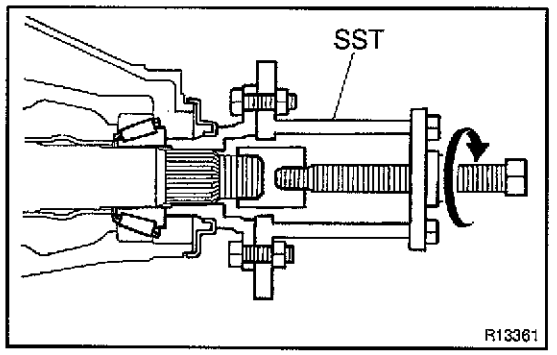
(b) Differential A type G.C.C. countries 2WD:
Install the 2 washers.



10. Differential B Type:
INSTALL OIL STORAGE RING AND FRONT BEARING OUTER RACE

(a) Using SST and a hammer, install a new oil storage ring.
SST 09316–60011 (09316–00011, 09316–00021)

(b) Using SST and a hammer, install the front bearing outer race.
SST 09316–60011 (09316–00011, 09316–00021)

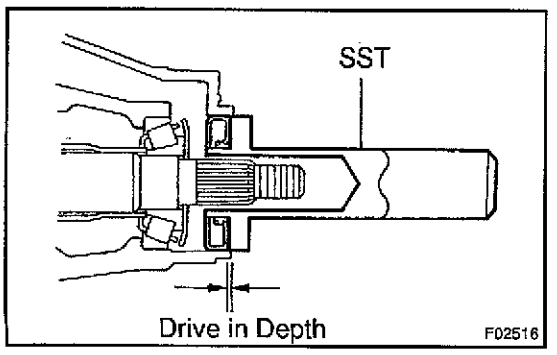


11. INSTALL FRONT BEARING

(a) Place the front bearing.

(b) Except differential A type G.C.C. countries 2WD:
Place the oil slinger.

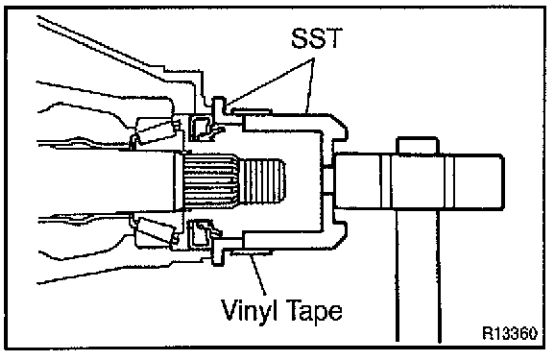
(c) Using SST and the companion flange, install the front bearing then remove the companion flange.
SST 09950–30010 (09951–03010, 09953–03010, 09954–03010, 09955–03030, 09956–03030, 09956–03050)



12. INSTALL NEW OIL SEAL

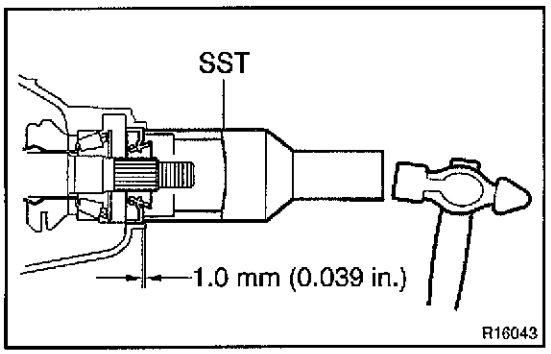
(a) Apply MP grease to a new oil seal.

(b) Except G.C.C. countries 2WD, w/ Diff. lock and w/ LSD:
Using SST, install the oil seal.
SST 09554–30011
Oil seal drive in depth: 1.0 mm (0.039 in.)

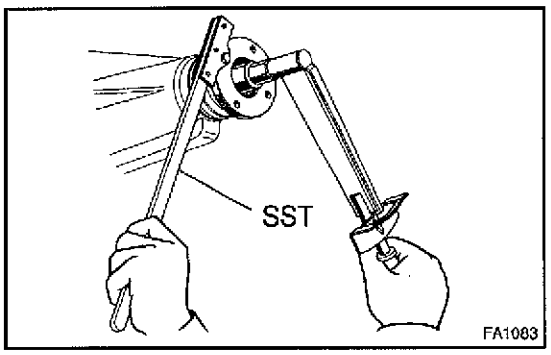


(c) G.C.C. countries 2WD:
Using SST, install the oil seal.
SST 09649–17010, 09316–12010
Oil seal drive in depth: 0.5 mm (0.020 in.)

HINT:
Connect SST with vinyl tape.



(d) w/ Diff. lock and w/ LSD:
Using SST, install the oil seal.
SST 09214–76011
Oil seal drive in depth: 1.0 mm (0.039 in.)

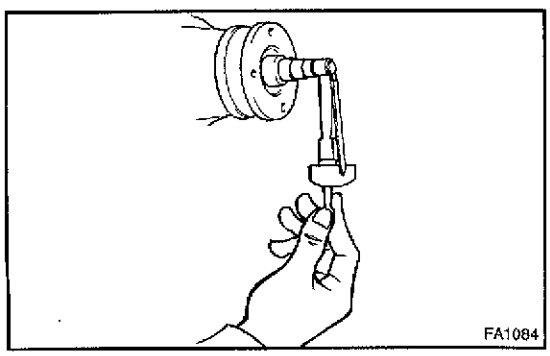


13. INSTALL COMPANION FLANGE

(a) Place the companion flange on the drive pinion.

(b) Apply light coat of hypoid gear oil on threads of a new companion flange nut.

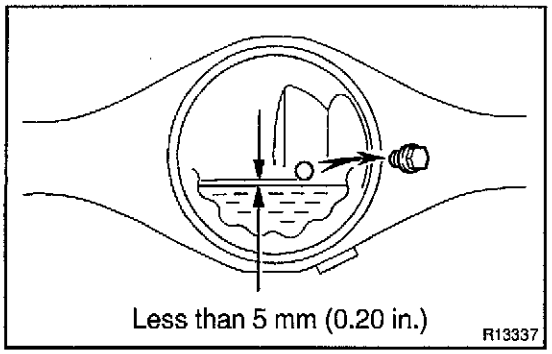
(c) Using SST to hold the flange, torque the nut.
SST 09330–00021
Torque:
G.C.C. countries 2WD:
147 N·m (1,500 kgf·cm, 109 ft·lbf)
w/ Diff. lock and w/ LSD:
196 N·m (2,000 kgf·cm, 145 ft·lbf)
Others:
108 N·m (1,100 kgf·cm, 80 ft·lbf)



14. ADJUST DRIVE PINION PRELOAD
G.C.C. countries 2WD: See page SA–201
w/ Diff. lock: See page SA–220
w/ LSD: See page SA–242
Others: See page SA–185

15. STAKE DRIVE PINION NUT

16. CONNECT REAR PROPELLER SHAFT
2WD: See page PR–8
4WD: See page PR–17



17. FILL DIFFERENTIAL WITH HYPOID GEAR OIL

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

Oil type:

w/o LSD: Hypoid gear oil API GL–5

w/ LSD: Hypoid gear oil LSD API GL–5

Recommended oil viscosity:

Above – 18°C (0°F) SAE 90

Below – 18°C (0°F) SAE 80W or 80W – 90

Capacity:

2WD (1RZ, 2L, 3L) G.C.C. countries Others	 2.4 liters (2.5 US qts., 2.1 Imp.qts) 1.8 liters (1.9 US qts., 1.6 Imp.qts)
2WD (3RZ–F, 2RZ–FE) G.C.C. countries Others	 2.4 liters (2.5 US qts., 2.1 Imp.qts) 2.0 liters (2.1 US qts., 1.8 Imp.qts)
2WD (w/ LSD)	2.0 liters (2.1 US qts., 1.8 Imp.qts)
4WD and Prerunner (3L)	 2.4 liters (2.5 US qts., 2.1 Imp.qts)
4WD and Prerunner (3RZ–F, 2RZ–FE, w/ Diff. lock, w/ LSD)	 2.7 liters (2.9 US qts., 2.4 Imp.qts)