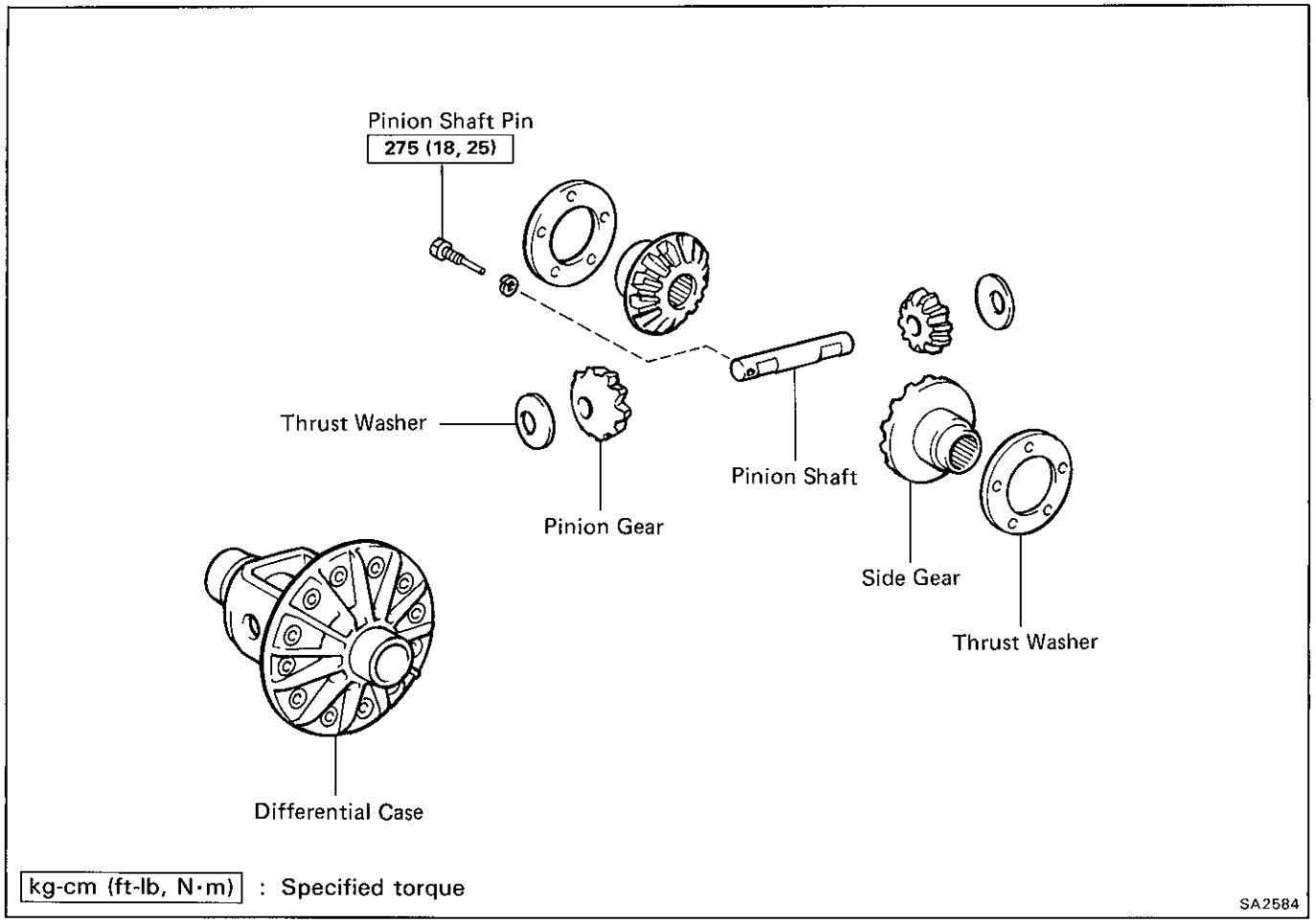
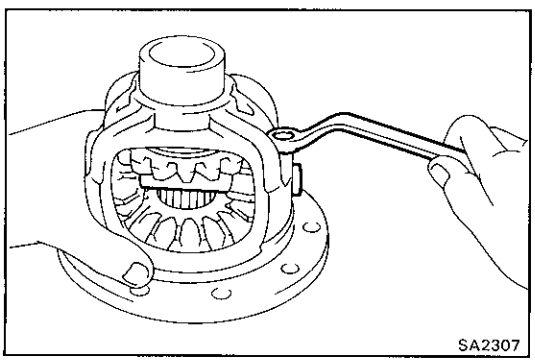
Differential Case (2 Pinion Type)

COMPONENTS



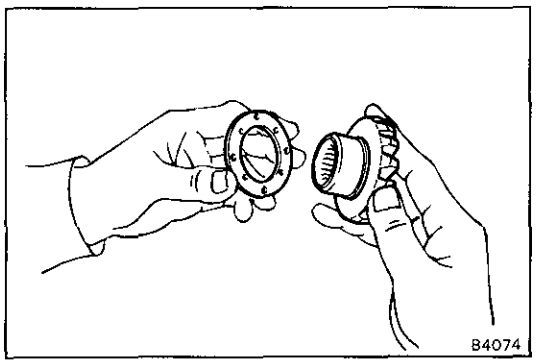
REMOVAL OF DIFFERENTIAL CASE

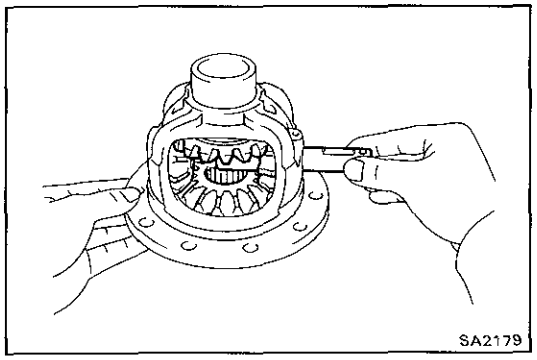
1. **REMOVE DIFFERENTIAL (See page SA-142)**
2. **REMOVE DIFFERENTIAL CASE FROM CARRIER (See page SA-146)**

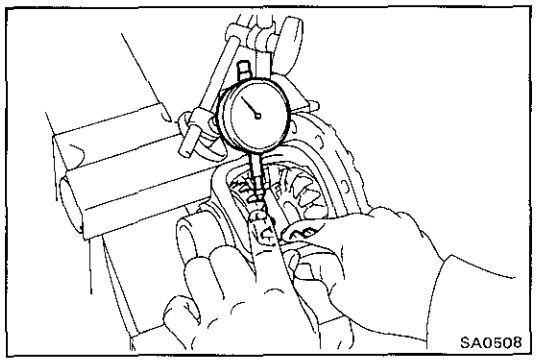


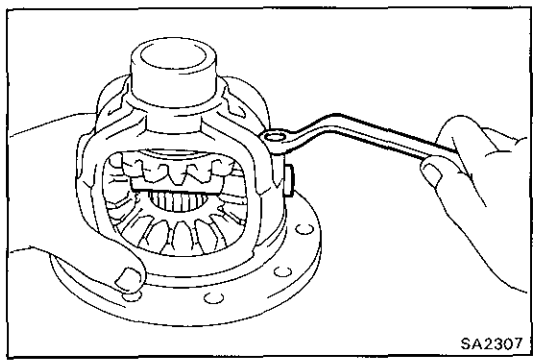
REPLACEMENT OF DIFFERENTIAL CASE COMPONENTS PARTS

1. **DISASSEMBLE DIFFERENTIAL CASE**
   (a) Remove the pinion shaft pin.
   (b) Remove the pinion shaft, two pinion gears, two side gears and four thrust washers.









2. ASSEMBLE DIFFERENTIAL CASE

(a) Apply gear oil to each part.

(b) Install the proper thrust washers and side gears.

Using the table below, select thrust washers which will ensure that the backlash is within specification. Try to select washers of the same size for both sides.

Standard backlash: 0.02 — 0.20 mm (0.0008 — 0.0079 in.)

Thrust washer thickness mm (in.)	
1.60 (0.0630)	1.90 (0.0748)
1.75 (0.0689)	2.05 (0.0807)

(c) Install thrust washers, side gears, pinion gears and pinion shaft in the differential case.

(d) Check the side gear backlash.

Measure the side gear backlash while holding one pinion gear toward the case.

Standard backlash: 0.02 — 0.20 mm (0.008 — 0.0079 in.)

If the backlash is not within specification, install a thrust washer of different thickness.

(e) Install the pinion shaft pin.

Torque: 275 kg-cm (18 ft-lb, 25 N·m)

INSTALLATION OF DIFFERENTIAL

1. INSTALL DIFFERENTIAL CASE IN CARRIER (See page SA-146)

2. INSTALL DIFFERENTIAL (See page SA-142)