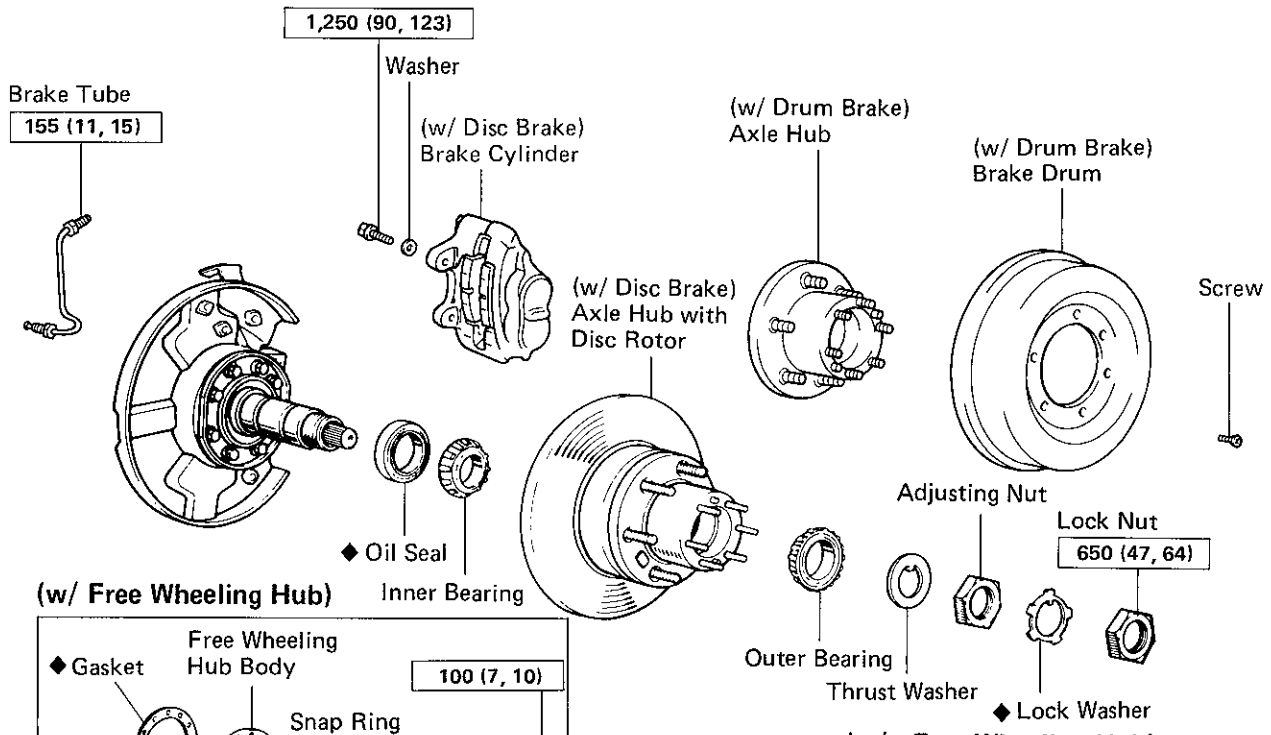
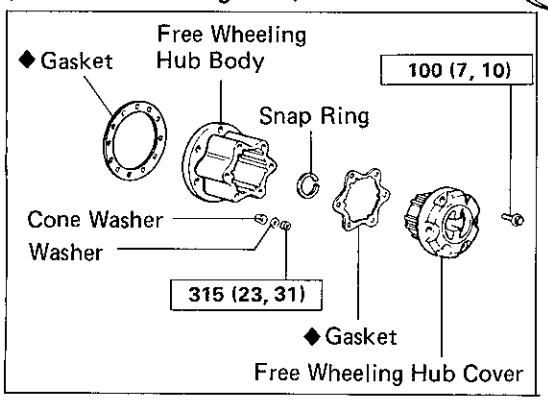
FRONT AXLE HUB

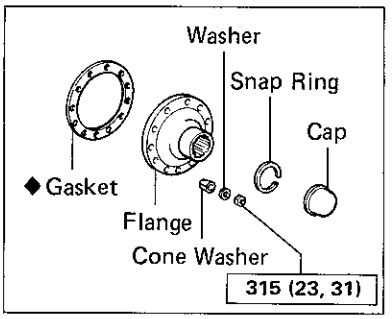
COMPONENTS



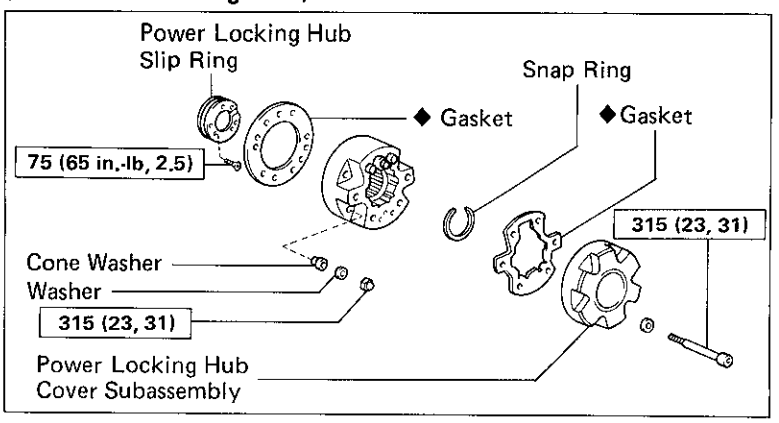
(w/ Free Wheeling Hub)



(w/o Free Wheeling Hub)



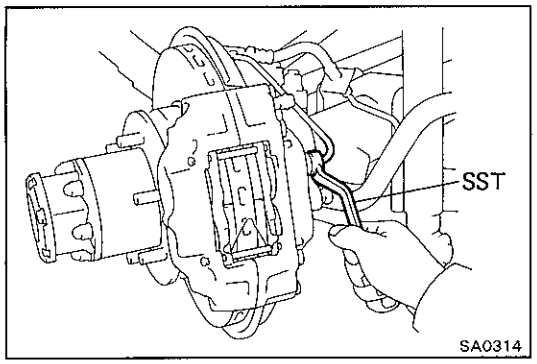
(w/ Power Locking Hub)



kg-cm (ft-lb, N·m) : Specified torque

◆ Non-reusable part

SA2880
SA2881



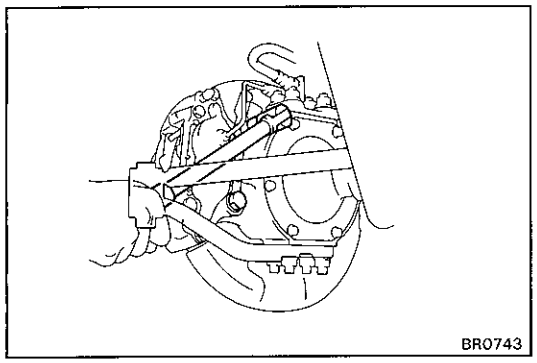
DISASSEMBLY OF FRONT AXLE HUB

(See page SA-29)

1. **(w/ DISC BRAKE)**
   REMOVE DISC BRAKE CYLINDER

   (a) Using SST, disconnect the brake tube.

   SST 09751-36011

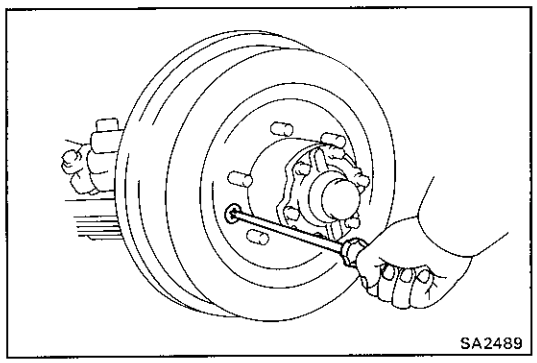


   (b) Remove the two bolts and brake cylinder.

2. **(w/ DRUM BRAKE)**
   REMOVE BRAKE DRUM

   (a) Remove the screw from the drum.

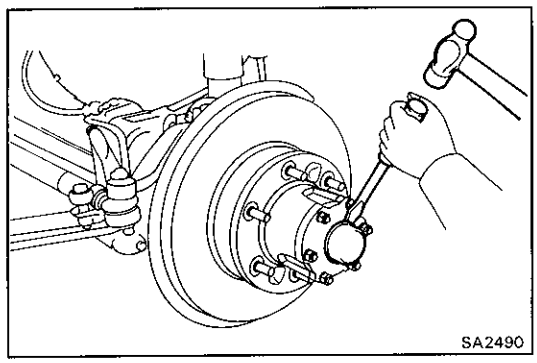
   (b) Pull out the brake drum.



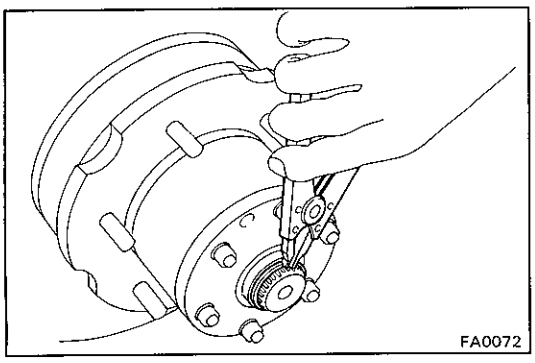
3. **REMOVE FLANGE, FREE WHEELING HUB OR POWER LOCKING HUB**

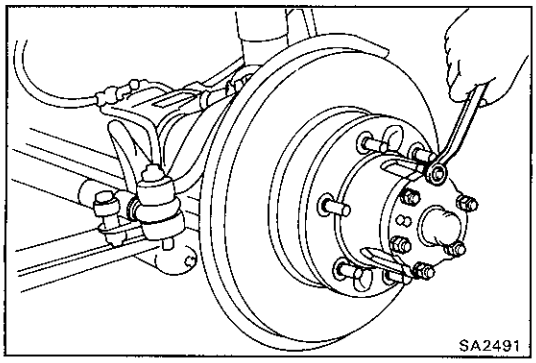
   HINT:
   - If the vehicle has the free wheeling hub, see page SA-6.
   - If the vehicle has the power locking hub, see page SA-23.

   (a) Using a screwdriver and hammer, remove the cap from the flange.

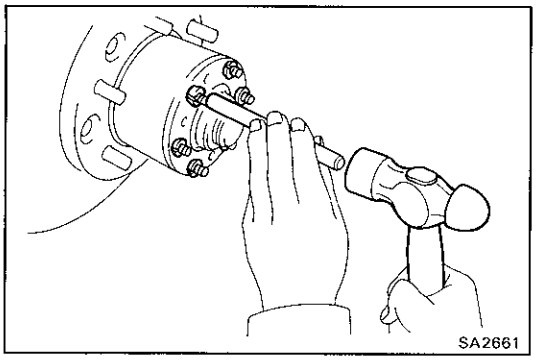


   (b) Using snap ring pliers, remove the snap ring.



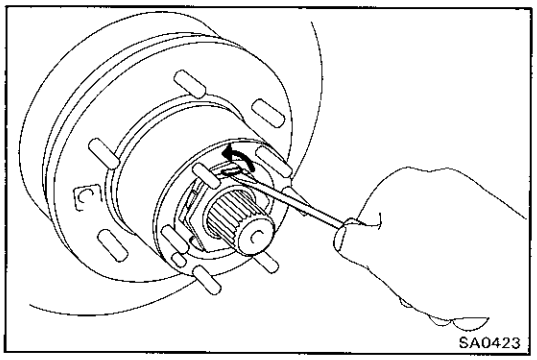


(c) Remove the six mounting nuts and washers.



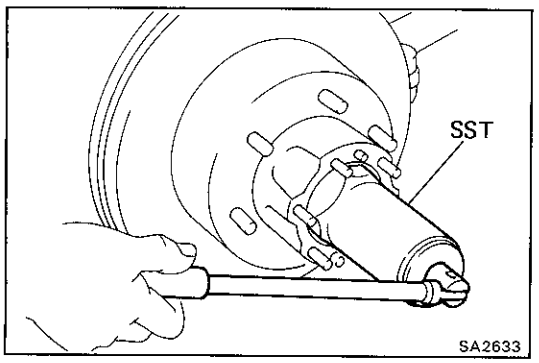
(d) Using a brass bar and hammer, tap the bolt heads and remove the cone washers.

(e) Pull out the flange.



4. REMOVE AXLE HUB

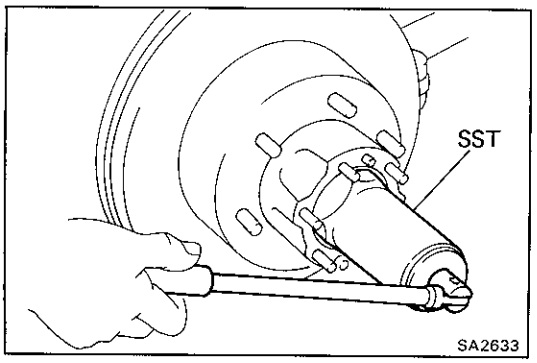
(a) Using a screwdriver, loosen the staked part of the lock washer.



(b) Using SST, remove the lock nut.

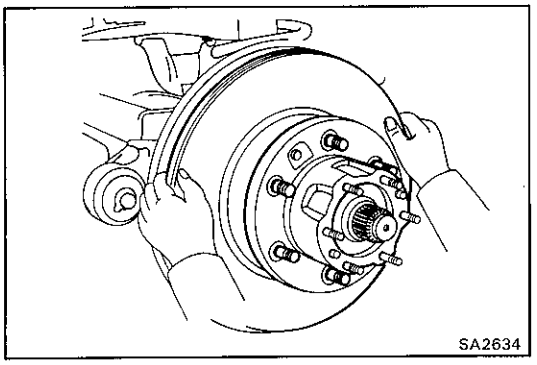
SST 09607-60020

(c) Remove the lock washer.



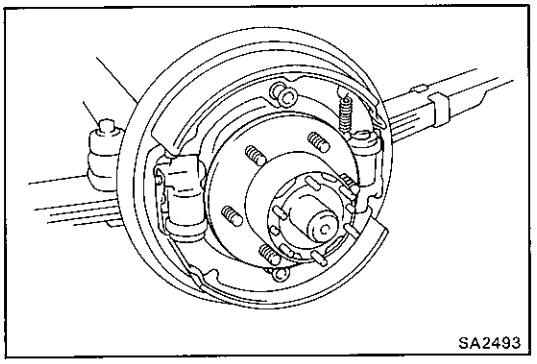
(d) Using SST, remove the adjusting nut.

SST 09607-60020

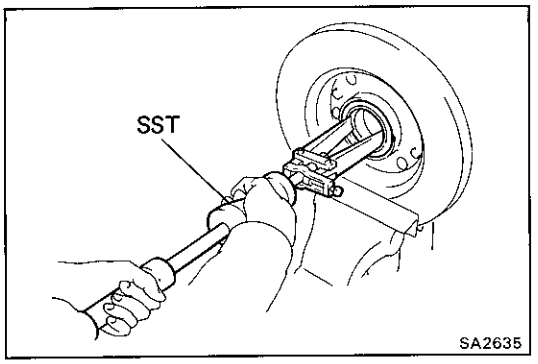


(e) (w/ Disc Brake)
Remove the axle hub with the disc rotor.

HINT: (w/ Power Locking Hub)
Before removing the boot, wrap vinyl tape around the tip of the spindle.



(f) (w/ Drum Brake)
Remove the axle hub.

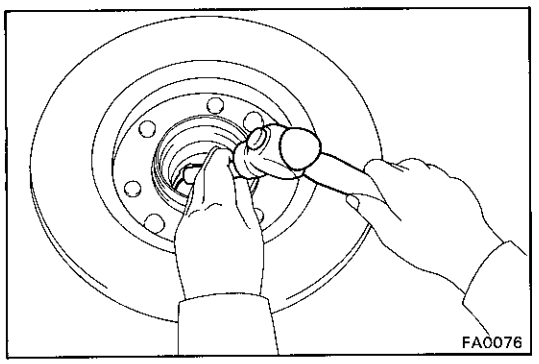


5. REMOVE INNER BEARING AND OIL SEAL

(a) Using SST, remove the oil seal.

SST 09308-00010

(b) Remove the inner bearing from the axle hub.



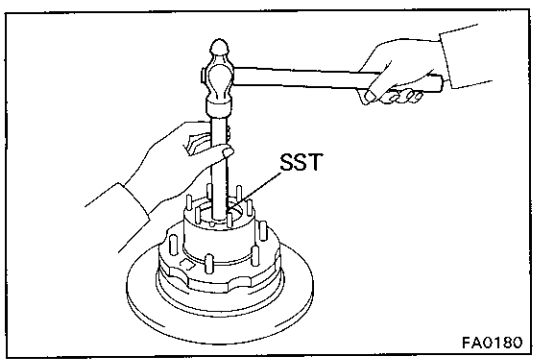
INSPECTION AND REPAIR OF FRONT AXLE HUB

1. INSPECT BEARING

Clean the bearings and outer races and inspect them for wear or damage.

2. REPLACE BEARING OUTER RACE

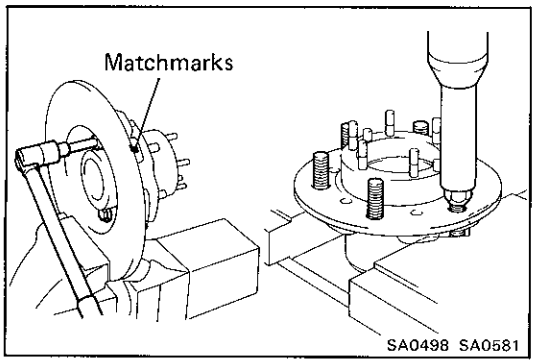
(a) Using a brass bar and hammer, drive out the bearing outer race.

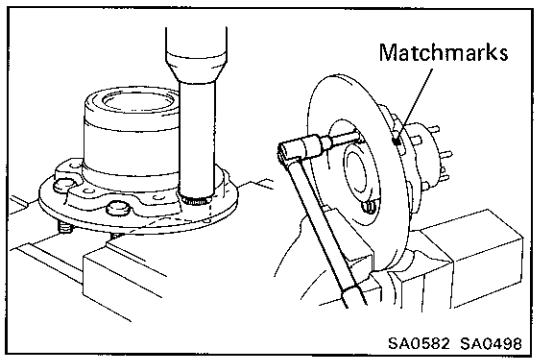


(b) Using SST, carefully drive in a new bearing outer race.

SST 09608-35014

Inner Bearing (09608-06020, 09608-06210)
Outer Bearing (09608-06020, 09608-06200)





3. REPLACE HUB BOLTS

(a) Place matchmarks on the axle hub and rotor disc.

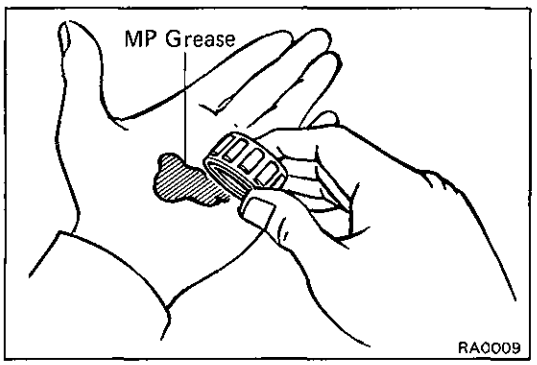
(b) Remove the six bolts and rotor disc from the axle hub.

(c) Install the nut to the hub bolts.

(d) Using an extension bar and press, press out the hub bolts.

(e) Using an extension bar and press, press in the hub bolts.

(f) Align the matchmarks install the axle hub to the rotor disc.



ASSEMBLY OF FRONT AXLE HUB

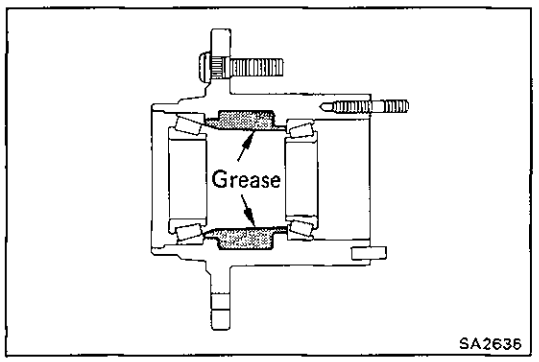
(See page SA-29)

1. PACK BEARINGS WITH MP GREASE

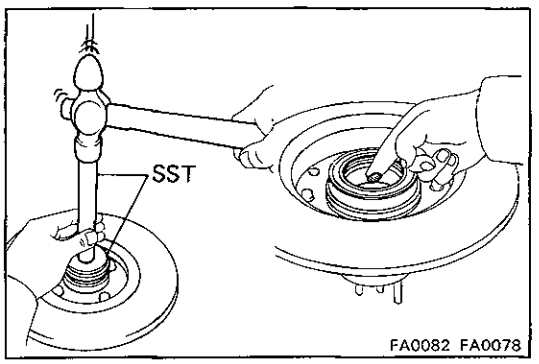
(a) Place MP grease in the palm of your hand.

(b) Pack grease into the bearing, continuing until the grease oozes out from the other side.

(c) Do the same around the bearing circumference.



2. PACK INSIDE OF HUB WITH MP GREASE



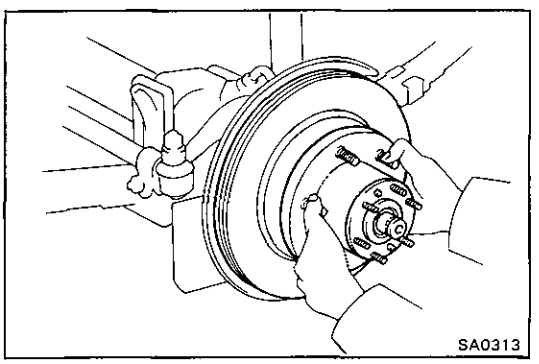
3. INSTALL INNER BEARING AND OIL SEAL

(a) Place inner bearing into the hub.

(b) Using SST, drive in the oil seal into the hub.

SST 09608-35014 (09608-06020, 09608-06150)

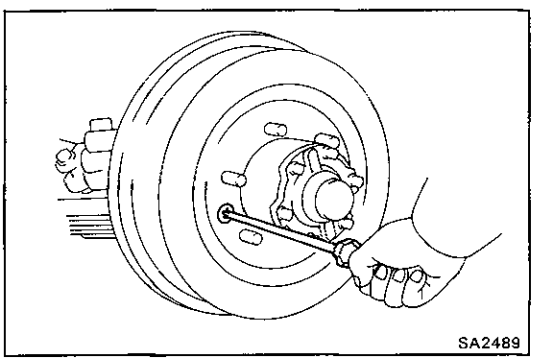
(c) Coat the oil seal with MP grease.



4. INSTALL AXLE HUB ON SPINDLE

(a) Place the axle hub on the spindle.

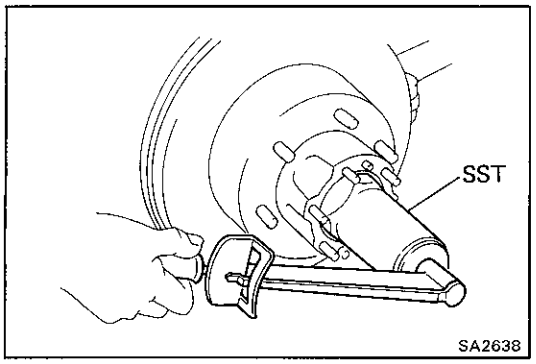
(b) Install the outer bearing and thrust washer.



5. (w/ DRUM BRAKE) INSTALL BRAKE DRUM

(a) Install the brake drum to the axle hub.

(b) Install the screw to the brake drum.



6. ADJUST PRELOAD

(a) (w/ Power Locking Hub)
Remove the vinyl tape from the tip of spindle.

(b) Using SST, torque the bearing adjusting nut.

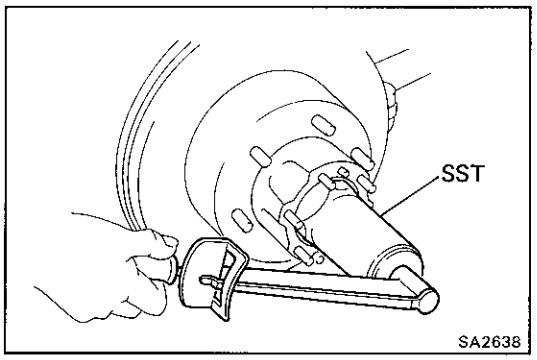
SST 09607-60020

Torque: 600 kg-cm (43 ft-lb, 59 N·m)

HINT: Be careful not to damage the oil seal.

(c) Turn the hub right and left two or three times.

(d) Loosen the nut until it can be turned by hand.

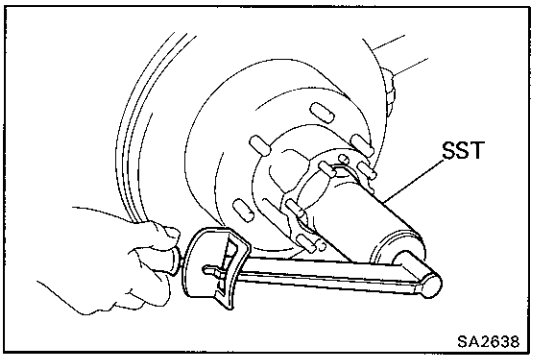


(e) Using SST, retorque the bearing adjusting nut.

SST 09607-60020

Torque: 600 kg-cm (43 ft-lb, 59 N·m)

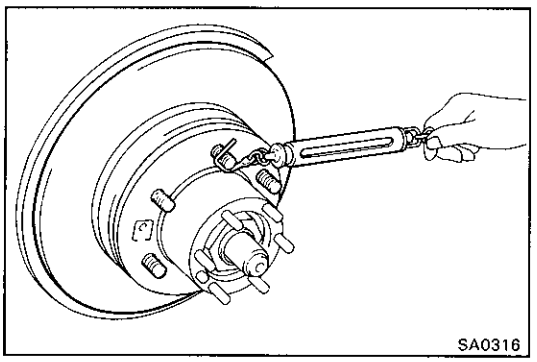
(f) Loosen the nut until it can be turned by hand.



(g) Retorque the adjusting nut.

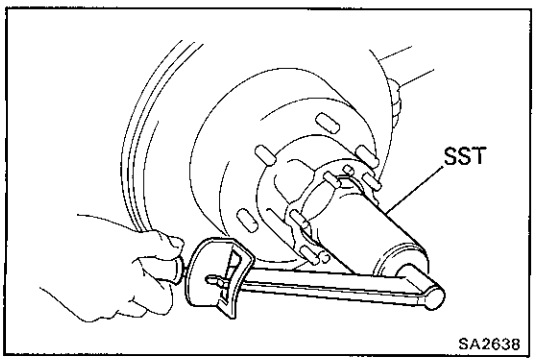
SST 09607-60020

Torque: 55 kg-cm (48 in.-lb, 5.4 N·m)



(h) Using a spring tension gauge, measure the preload.

Preload (starting):
Preload 2.8 — 5.7 kg
(6.2 — 12.6 lb, 27 — 56 N)



7. INSTALL LOCK WASHER AND LOCK NUT

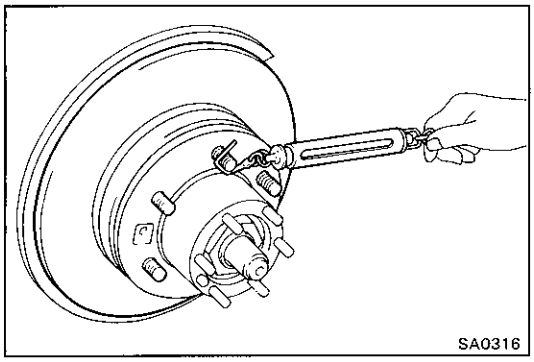
(a) Install the lock washer and lock nut.

(b) Using SST, torque the lock nut.

SST 09607-60020

Torque: 650 kg-cm (47 ft-lb, 64 N·m)

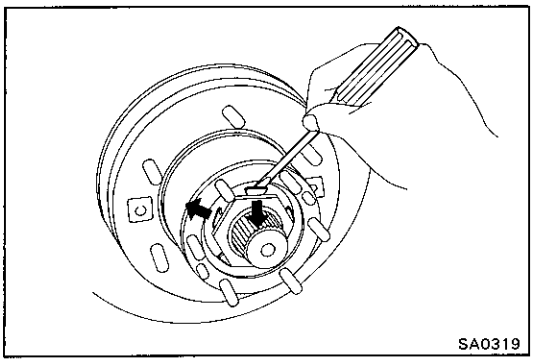
(c) Check that the bearing has no play.


SA0316

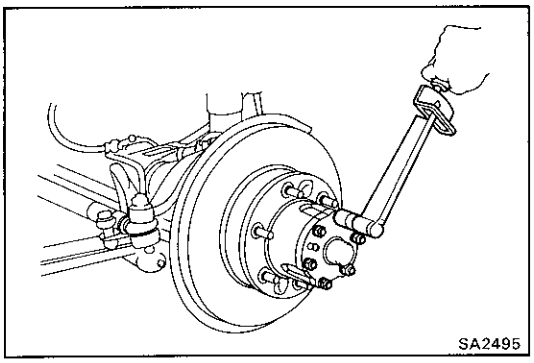
(d) Using a spring tension gauge, check the preload.

Preload (starting):
Preload 2.8 — 5.7 kg
(6.2 — 12.6 lb, 27 — 56 N)

If not within specification, adjust with the adjusting nut.


SA0319

(e) Secure the lock nut by bending one of the lock washer tooth inward and another lock washer tooth outward.


SA2495

8. INSTALL FLANGE, FREE WHEELING HUB OR POWER LOCKING HUB

HINT:
- If the vehicle has the free wheeling hub, see page SA-13.
- If the vehicle has the power locking hub, see page SA-26.

(a) Place a new gasket in position on the axle hub.

(b) Install the flange to the axle hub.

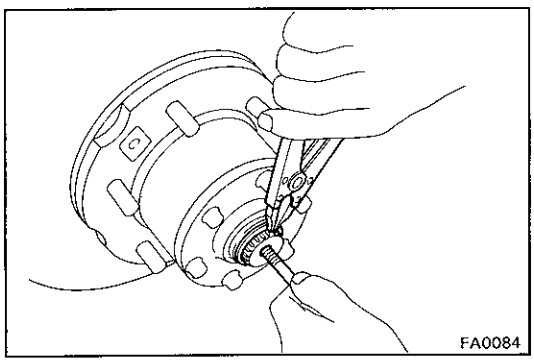
(c) Install the six cone washers, washers and nuts. Torque the nuts.

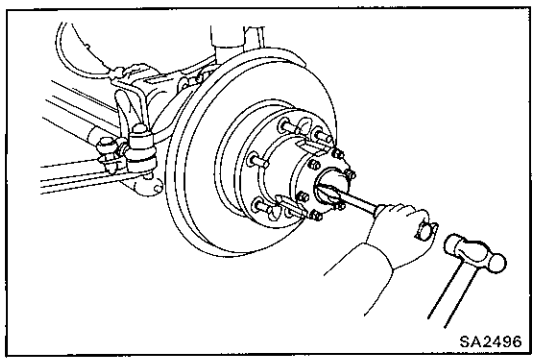
Torque: 315 kg-cm (23 ft-lb, 31 N·m)

(d) Install a bolt to the axle shaft and pull it out.

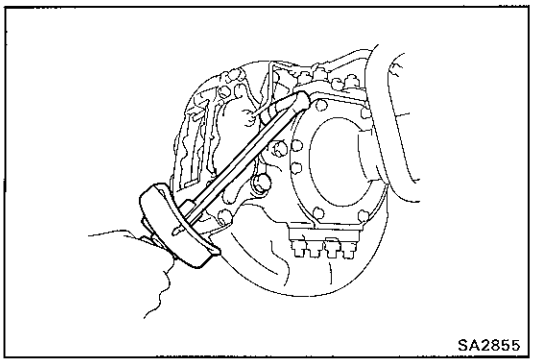
(e) Using snap ring pliers, install the snap ring.

(f) Remove the bolt from the axle shaft.


FA0084


SA2496

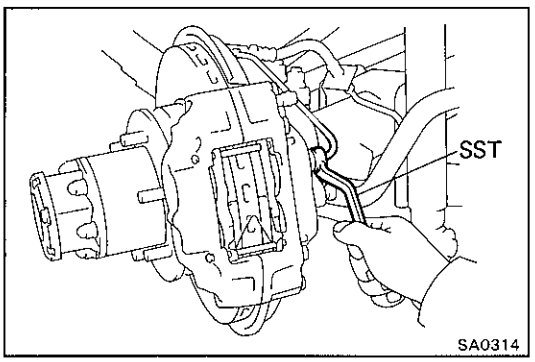
(g) Using a hammer and screwdriver, install the cap to the flange.



9. (w/ DISC BRAKE)
INSTALL BRAKE CYLINDER

(a) Install the brake cylinder to the steering knuckle with the two bolts.
Torque the mounting bolts.

Torque: 1,250 kg-cm (90 ft-lb, 123 N·m)



(b) Using SST, connect the brake tube.

SST 09751-36011

Torque: 155 kg-cm (11 ft-lb, 15 N·m)

10. BLEED BRAKE LINE
(See page BR-7)