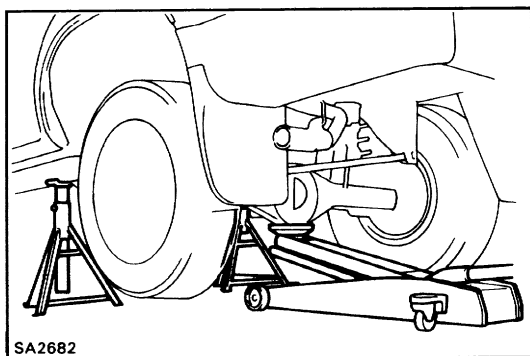
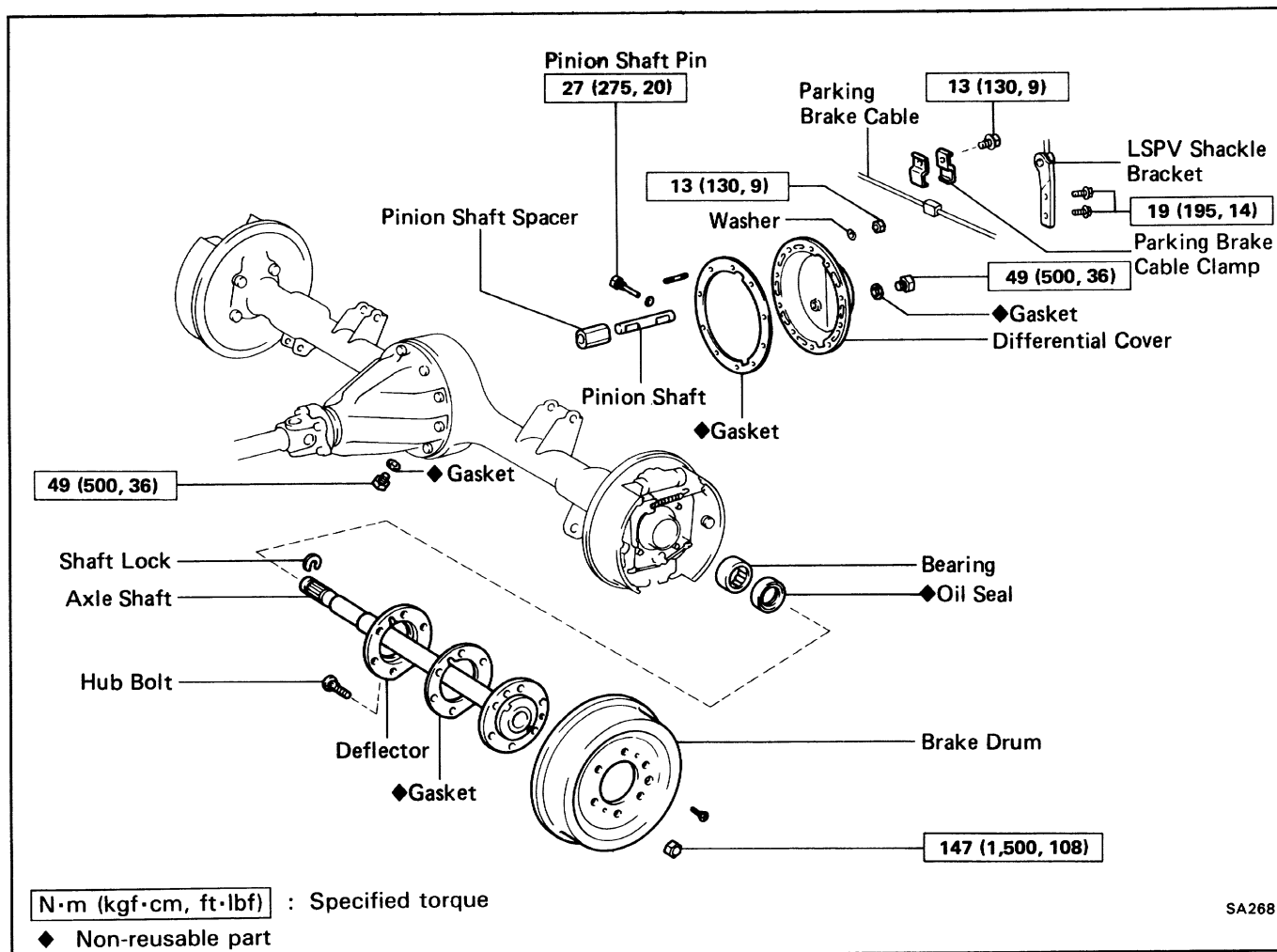
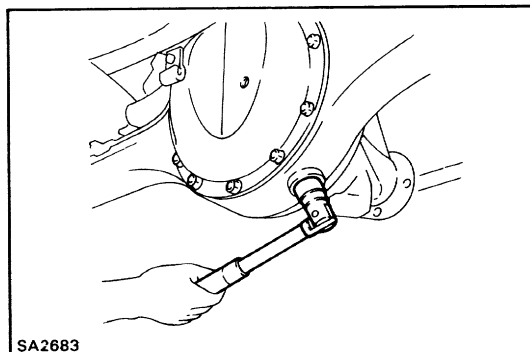


REAR AXLE SHAFT COMPONENTS

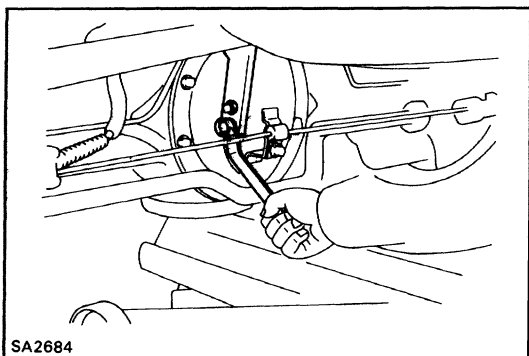


REMOVAL OF REAR AXLE SHAFT

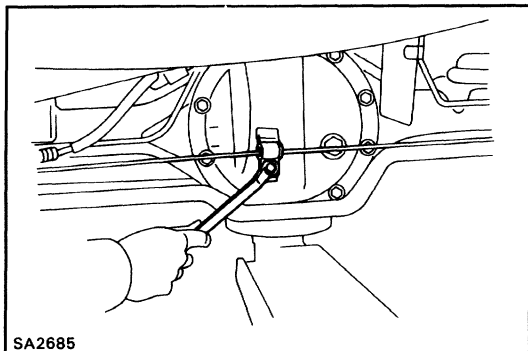
1. JACK UP AND SUPPORT VEHICLE
2. REMOVE REAR WHEEL AND BRAKE DRUM



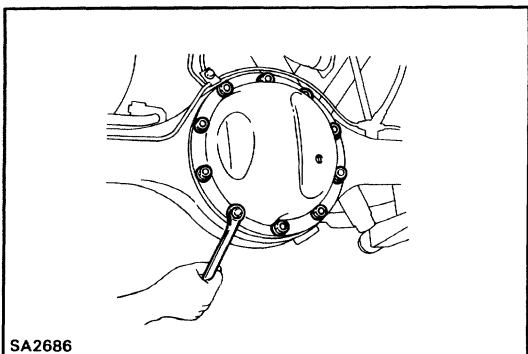
3. REMOVE DRAIN PLUG AND DRAIN DIFFERENTIAL OIL

**4. REMOVE LSPV SHACKLE BRACKET**

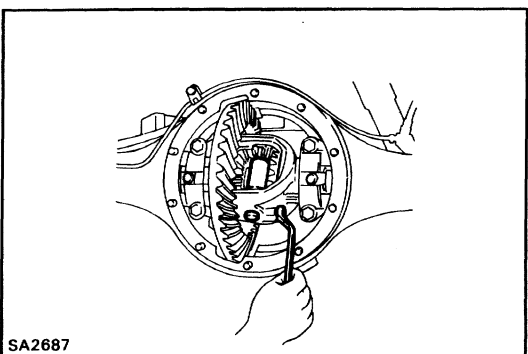
Remove the bolts and the shackle bracket from the differential cover.

**5. REMOVE PARKING BRAKE CABLE CLAMP**

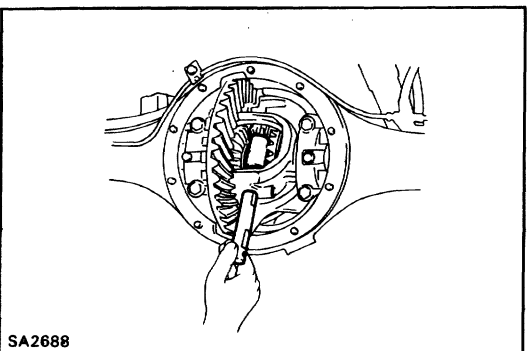
Remove the bolt and the clamp from the differential cover.

**6. REMOVE DIFFERENTIAL COVER**

- (a) Remove the ten nuts and washers from the differential.
- (b) Remove the differential cover with gasket from the differential.

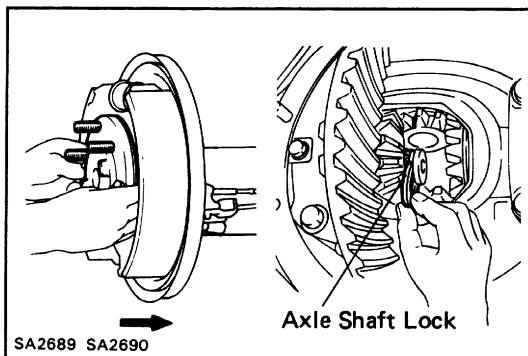
**7. REMOVE PINION SHAFT AND SPACER**

- (a) Remove the pinion shaft pin from the differential.



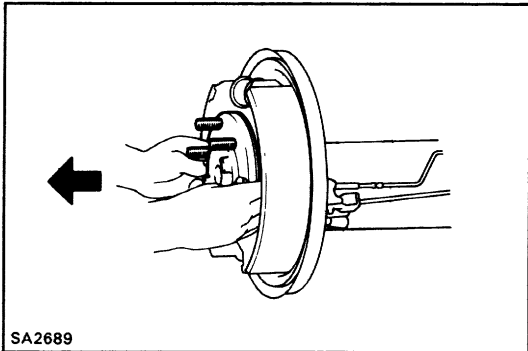
- (b) Remove the pinion shaft and spacer.

HINT: When the pinion shaft is removed, the pinion gear and washer will come off also.



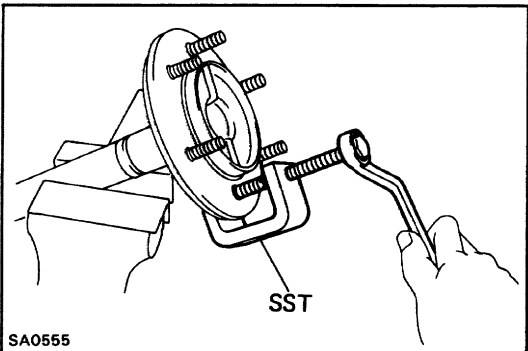
8. REMOVE AXLE SHAFT LOCK

Push the axle shaft to the differential side and remove the axle shaft lock.



9. REMOVE AXLE SHAFT

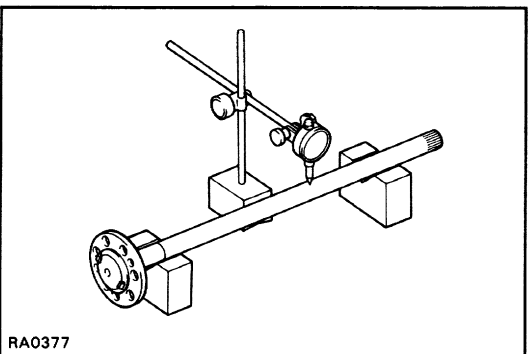
NOTICE: When pulling out the axle shaft, be careful not to damage the oil seal.



10. REMOVE OIL DEFLECTOR

Using SST, remove the hub bolts, oil deflector and gas-ket.

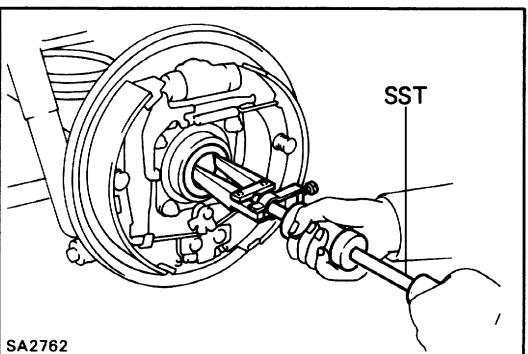
SST 09650-17011



INSPECTION AND REPLACEMENT OF REAR AXLE SHAFT COMPONENTS

1. INSPECT REAR AXLE SHAFT

- (a) Check for wear or damage.
 - (b) Check the runout of axle shaft.
- Maximum runout: 0.8 mm (0.031 in.)**

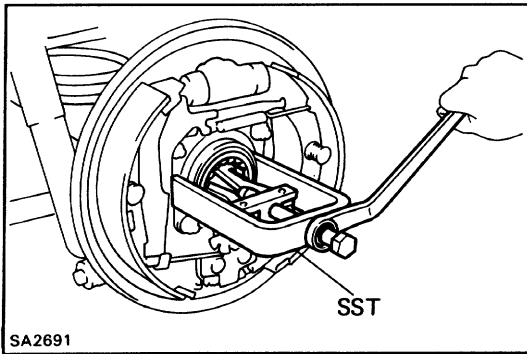


2. INSPECT OIL SEAL AND BEARING FOR WEAR OR DAMAGE

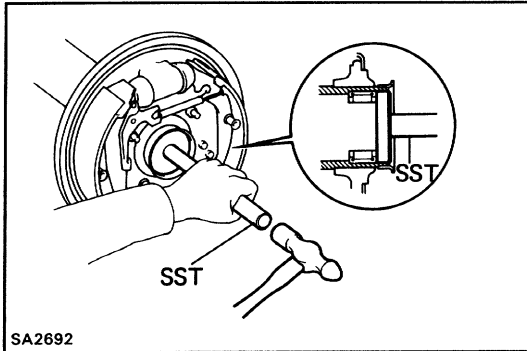
If the oil seal and bearing is damaged or worn, replace it.

3. REPLACE OIL SEAL AND BEARING

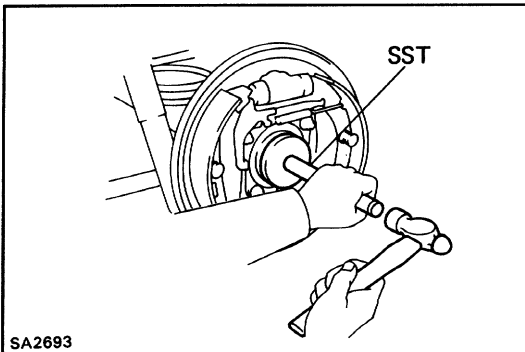
- (a) Using SST, remove the oil seal.
- SST 09308-00010



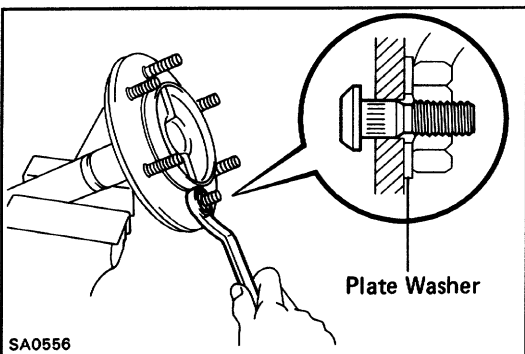
- (b) Using SST, remove the bearing.
SST 09514-35011



- (c) Apply MP grease to the bearing.
(d) Using SST, drive in a new bearing.
SST 09608-20012 (09608-03020, 09608-03060)



- (e) Using SST, drive in a new oil seal.
SST 09608-20012 (09608-03020, 09608-03090)
(f) Apply MP grease to the oil seal lip.

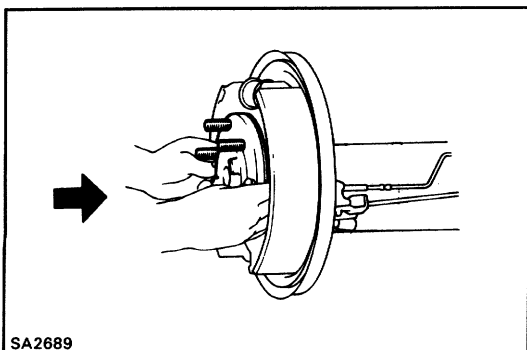


INSTALLATION OF REAR AXLE SHAFT

(See page [SA-58](#))

1. INSTALL OIL DEFLECTOR

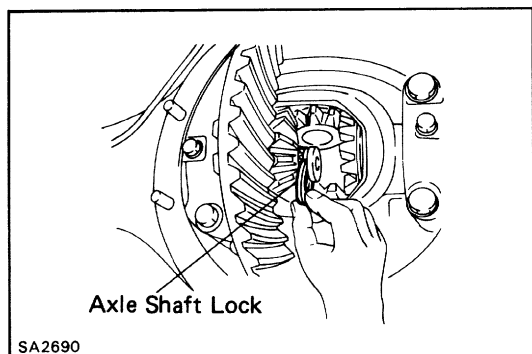
- (a) Install a new gasket and the oil deflector.
(b) Install the plate washer on the hub bolt as shown in the illustration then tighten the nut to install the hub bolts.



2. INSTALL REAR AXLE SHAFT IN AXLE HOUSING

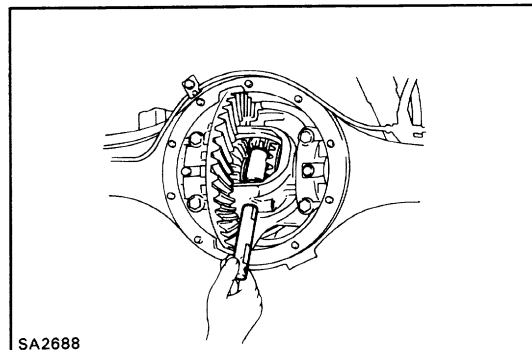
Install the axle shaft into the housing.

NOTICE: When inserting the axle shaft, be careful not to damage the oil seal.



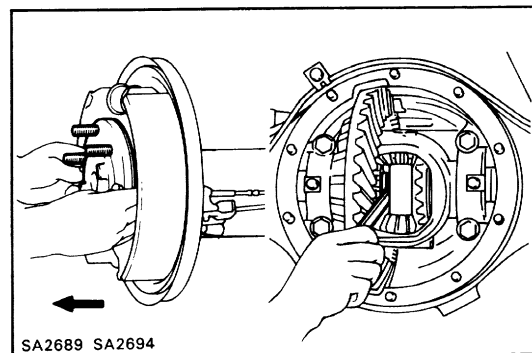
3. INSTALL AXLE SHAFT LOCK

- (a) Install the axle shaft lock to axle shaft.
- (b) Pull the axle shaft fully toward the outer side of the vehicle.



4. INSTALL PINION SHAFT AND PINION SPACER

- (a) Install the spacer and the pinion shaft to the differential.



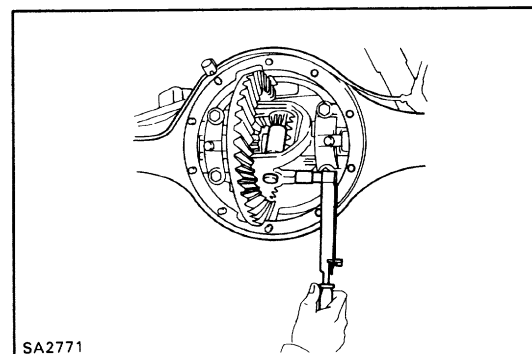
- (b) Measure the thrust clearance between the axle shaft and spacer.

Maximum clearance: 0.5 mm (0.0020 in.)

If necessary, select the spacer.

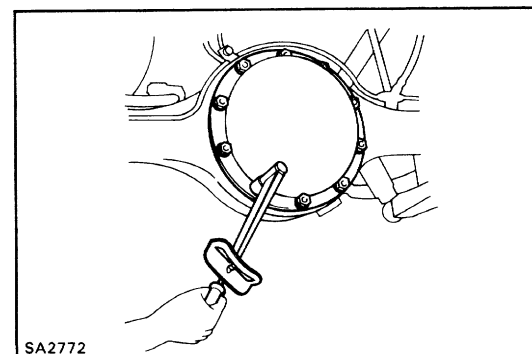
Spacer thickness

Thickness	mm (in.)
29.0	(1.142)
29.4	(1.157)
29.8	(1.173)
30.2	(1.189)
30.6	(1.205)



- (c) Install the pinion shaft pin.

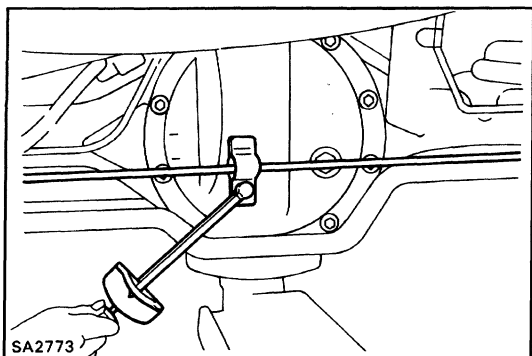
Torque: 27 N-m (275 kgf-cm, 20 ft-lbf)



5. INSTALL DIFFERENTIAL COVER

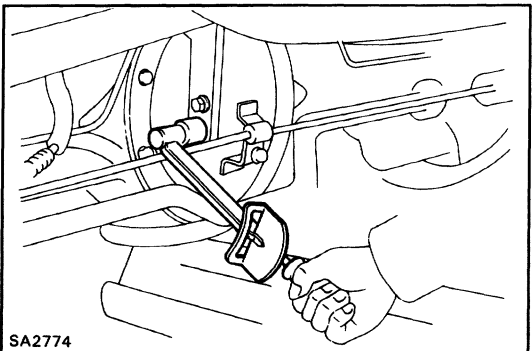
- (a) Install a new gasket and differential cover to the axle housing.
- (b) Install the ten washers and nuts.

Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)

**6. INSTALL PARKING BRAKE CABLE CLAMP**

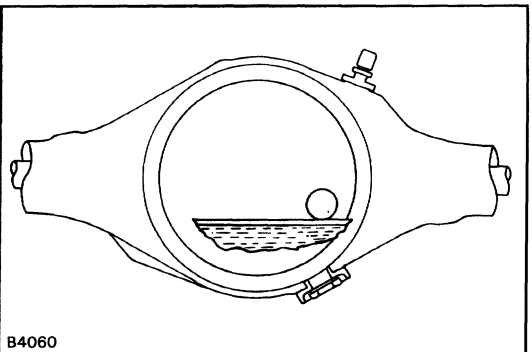
Install the clamp with the parking brake cable to the differential cover with the bolt.

Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)

**7. INSTALL LSPV SHACKLE BRACKET**

Install the shackle bracket to differential cover with the bolts.

Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)

8. INSTALL BRAKE DRUM AND WHEEL**9. FILL DIFFERENTIAL WITH GEAR OIL**

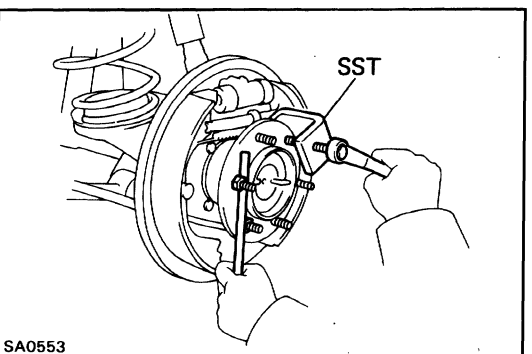
Oil type: Hypoid gear oil

Viscosity:

Above - 18°C (0°F) SAE90

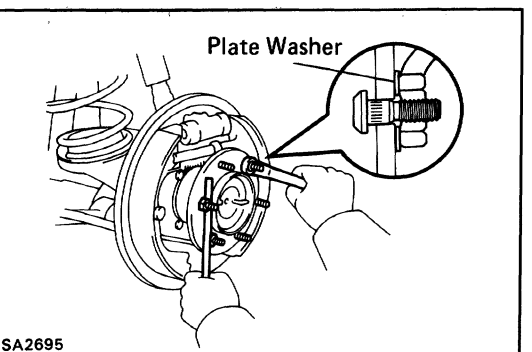
Below - 18°C (0°F) SAE80W or 80W-90

Capacity: 2.8 liters (2.9 US qts, 2.4 Imp.qts)

10. LOWER VEHICLE**REPLACEMENT OF HUB BOLT****1. JACK UP AND SUPPORT VEHICLE****2. REMOVE WHEEL AND BRAKE DRUM****3. REMOVE HUB BOLT**

Using SST, remove the hub bolt.

SST 09650-17011

**4. INSTALL HUB BOLT**

Hold the axle shaft, using plate washer and nut, install a new hub bolt.

5. INSTALL BRAKE DRUM AND WHEEL**6. LOWER VEHICLE**