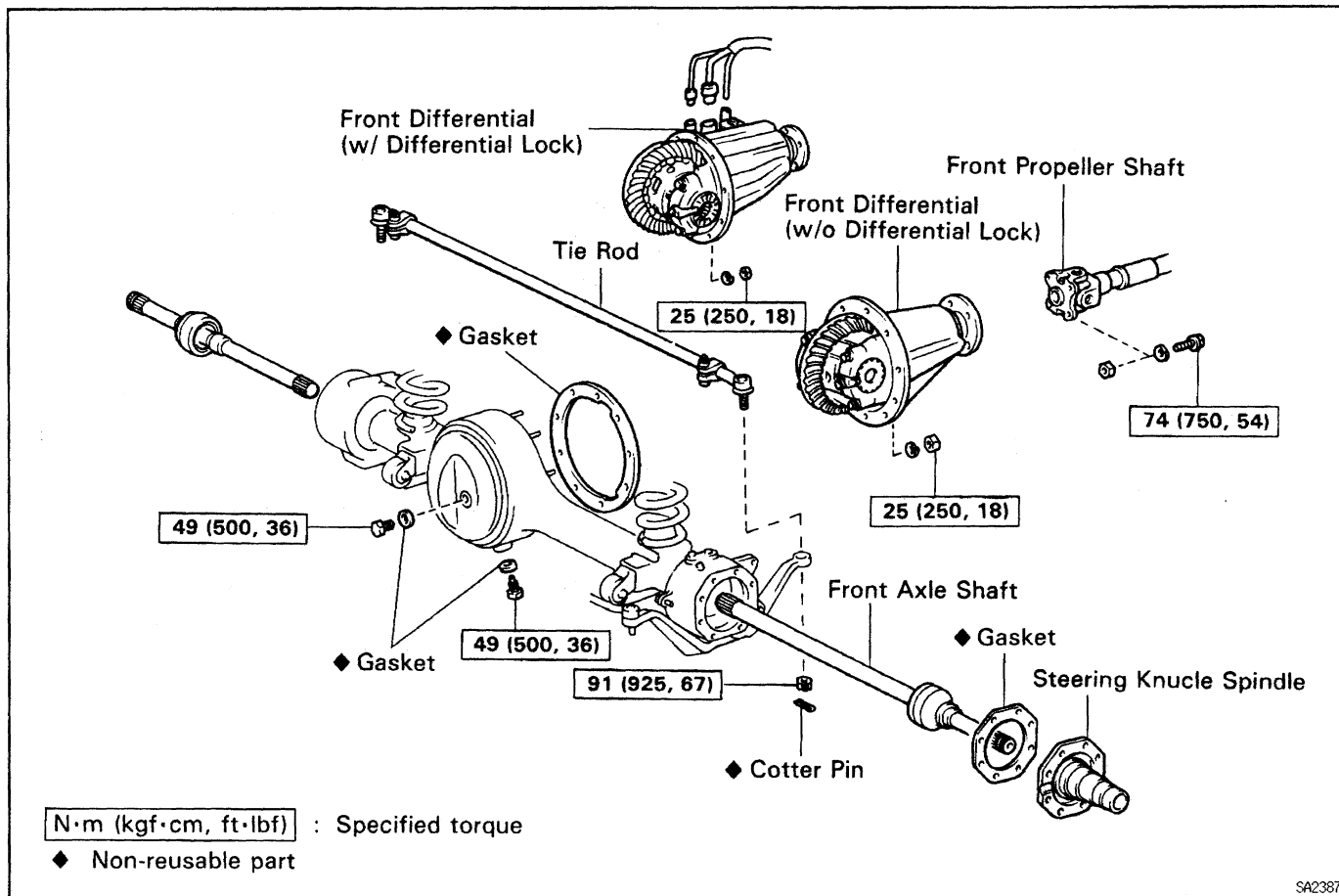
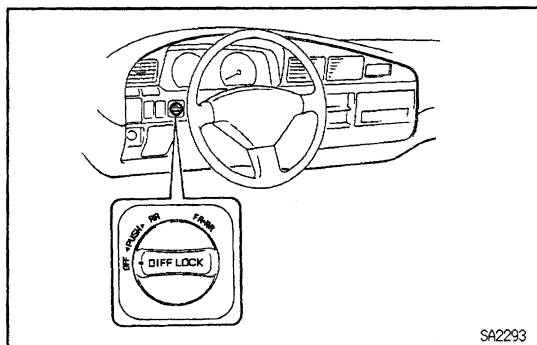


ASSEMBLY REMOVAL AND INSTALLATION COMPONENTS

SA0TU-02



SA17D-01



DIFFERENTIAL REMOVAL

1. (w/ DIFFERENTIAL LOCK)

SHIFTING FRONT DIFFERENTIAL LOCK

- Turn the ignition switch to ON position.
- Keep the center differential lock condition.
- Turn the differential lock control switch to FR/RR position and lock the front differential.

HINT: Rotating the tires, check they are in the differential lock condition.

- Disconnect the cable from the negative terminal of the battery.

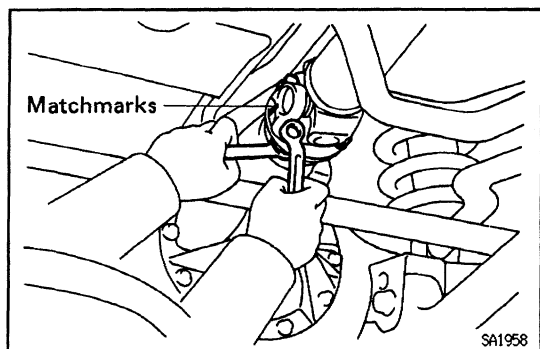
2. DRAIN DIFFERENTIAL OIL

3. REMOVE FRONT AXLE SHAFTS

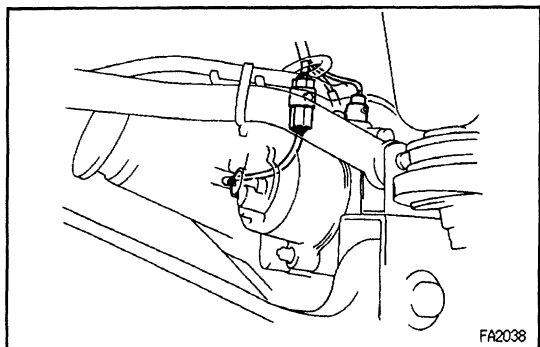
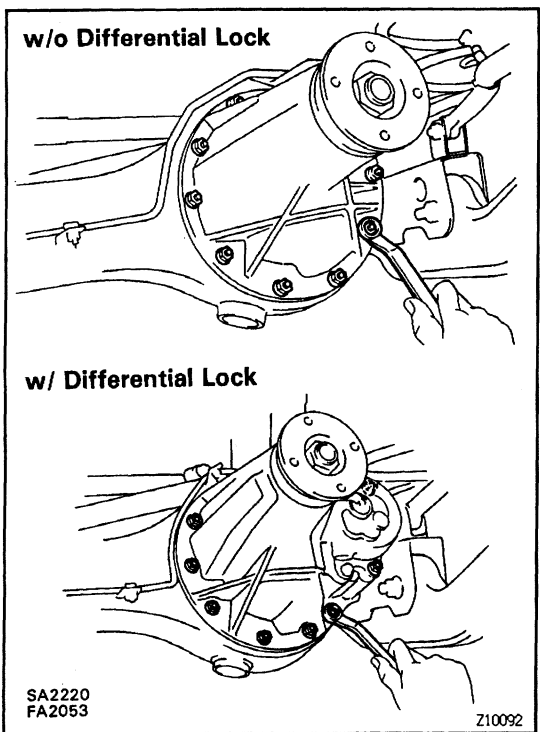
(See page SA-17)

4. REMOVE TIE ROD

(See page SA-17)

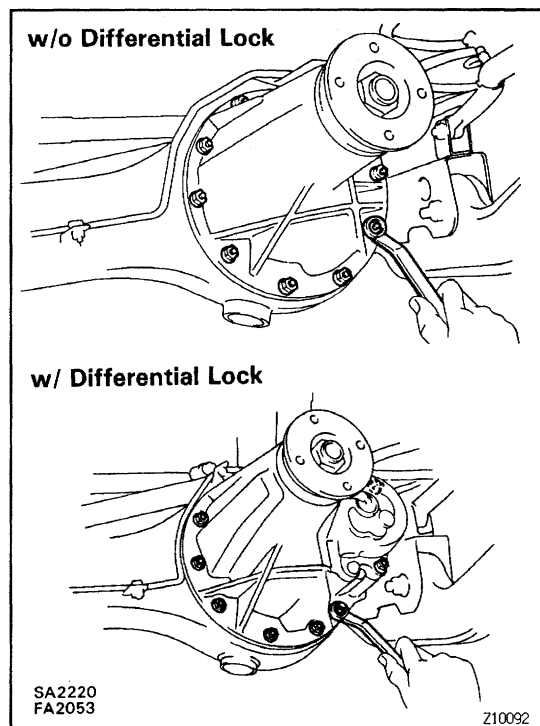
**5. DISCONNECT FRONT PROPELLER SHAFT**

- (a) Place the matchmarks on the flanges.
- (b) Remove 4 nuts and bolts.
- (c) Disconnect the front propeller shaft.

**6. (w/ DIFFERENTIAL LOCK)
DISCONNECT CONNECTORS AND TUBE****7. REMOVE DIFFERENTIAL CARRIER ASSEMBLY**

Remove the nuts, washers and differential carrier assembly.

NOTICE: Be careful not to damage the installation surface.



DIFFERENTIAL INSTALLATION

1. (w/ DIFFERENTIAL LOCK)

CHECK DIFFERENTIAL LOCK OPERATION

(a) Connect the connector of the actuator to the connector of the vehicle side, and check that the sleeves on work with switching over the differential lock control switch.

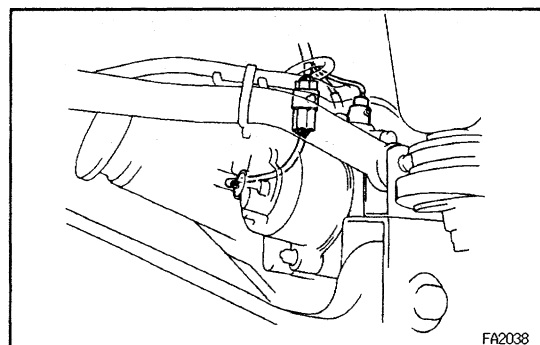
(b) After checking, lock the front differential.

2. INSTALL NEW GASKET TO AXLE HOUSING

3. INSTALL DIFFERENTIAL CARRIER ASSEMBLY

Install the differential carrier assembly in the axle housing with the nuts.

Torque: 25 N-m (250 kgf-cm, 18 ft-lbf)

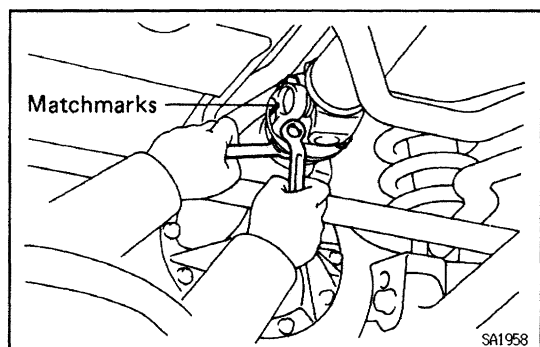


4. (w/ DIFFERENTIAL LOCK)

CONNECT CONNECTORS AND TUBE

HINT:

- When connecting the tube of the harness side to the hose of the actuator side, its depth of insertion is 15 mm(0.59 in.).
- Take care that water or the equivalent shall not adhere to the connector and hose.



5. CONNECT FRONT PROPELLER SHAFT

(a) Align the matchmarks and connect the propeller shaft to the companion flange with the 4 bolts, spring washers and nuts.

(b) Torque the bolts and nuts.

Torque: 74 N-m (750 kgf-cm, 54 ft-lbf)

6. INSTALL TIE ROD

(SEE page [SA-23](#))

7. INSTALL FRONT AXLE SHAFTS

(See page [SA-23](#))

8. FILL DIFFERENTIAL WITH HYPOID GEAR OIL

Fill with hypoid gear oil.

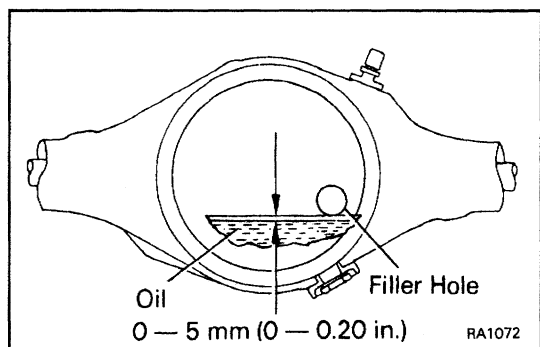
Oil type:

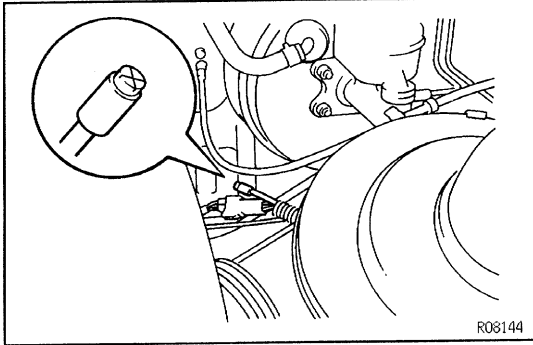
Hypoid gear oil API GL-5

Recommended oil viscosity:

Above -18°C (0°F) SAE 90

Below -18°C (0°F) SAE 80 W or 80 W-90



Capacity:**w/o Differential lock****2.8 liters (2.9 US qts, 2.5 Imp.qts)****w/ Differential lock****2.65 liters (2.8 US qts, 2.3 Imp.qts)****9. (w/ DIFFERENTIAL LOCK)****CHECK BLEEDER PLUG**

Check that the bleeder plug at the point of the bleeder tube (inside of the engine room) is not damaged or worn.