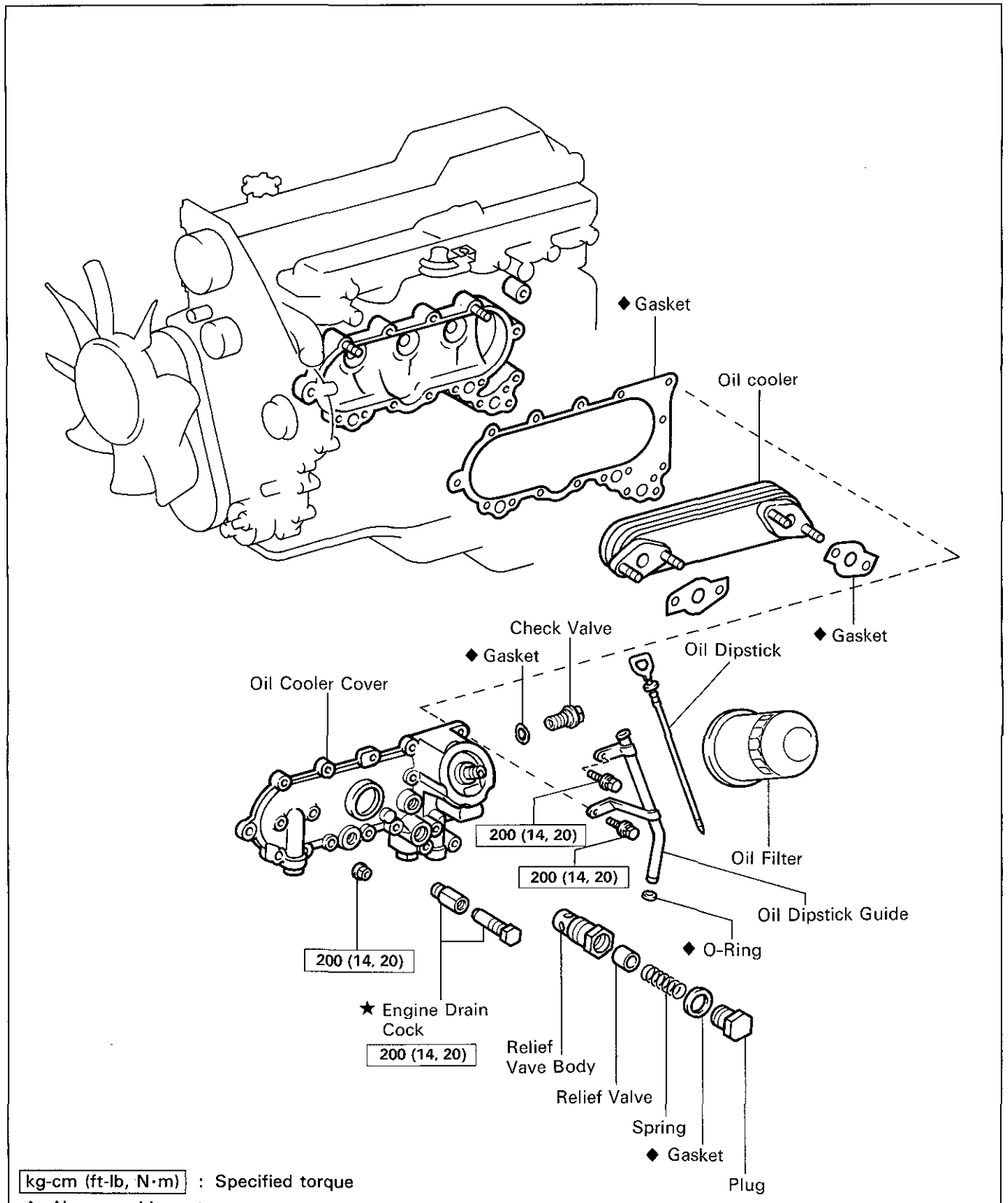
OIL COOLER, RELIEF VALVE AND CHECK VALVE

COMPONENTS



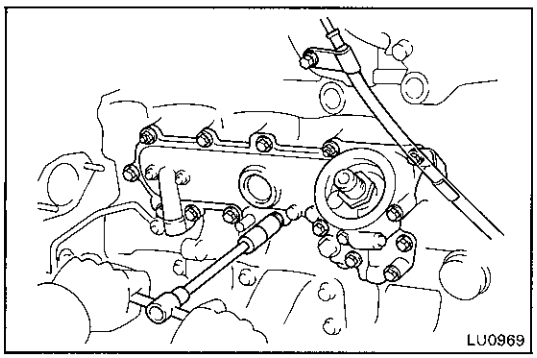
kg-cm (ft-lb, N·m) : Specified torque
◆ Non-reusable part
★ Precoated part

LU0998

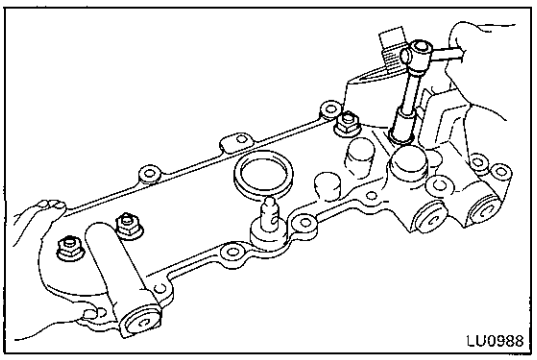
REMOVAL OF OIL COOLER, RELIEF VALVE AND CHECK VALVE

(See page LU- 15)

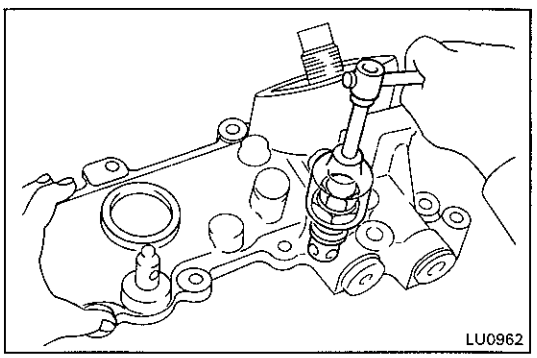
1. DRAIN ENGINE COOLANT (See page CO-4)
2. REMOVE OIL FILTER (See page LU-6)
3. REMOVE INJECTION PUMP (See page FU-27)



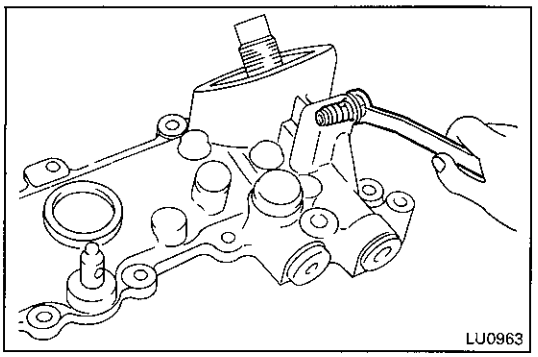
4. REMOVE OIL DIPSTICK AND GUIDE
   (a) Remove the two bolts, oil dipstick and guide.
   (b) Remove the oil ring from the oil dipstick guide.
5. REMOVE OIL COOLER AND OIL COOLER COVER ASSEMBLY
   Remove the thirteen bolts, two nuts, oil cooler and oil cooler assembly and gasket.



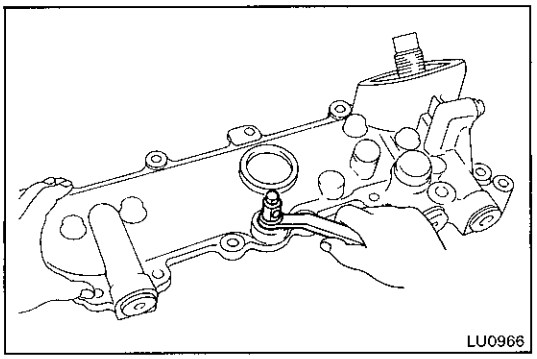
6. SEPARATE OIL COOLER AND OIL COOLER COVER
   Remove the four nuts, oil cooler and two gaskets from the oil cooler cover.



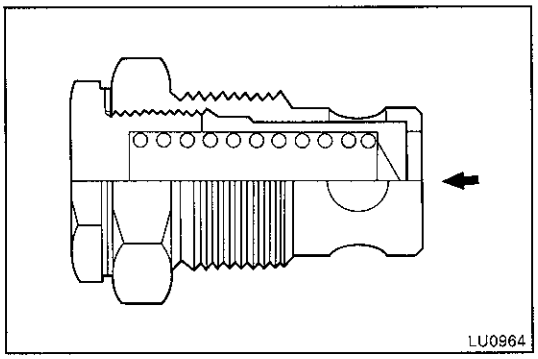
7. REMOVE RELIEF VALVE
   Remove the relief valve and gasket.



8. REMOVE CHECK VALVE
   Remove the check valve and gasket.



9. REMOVE ENGINE DRAIN COCK

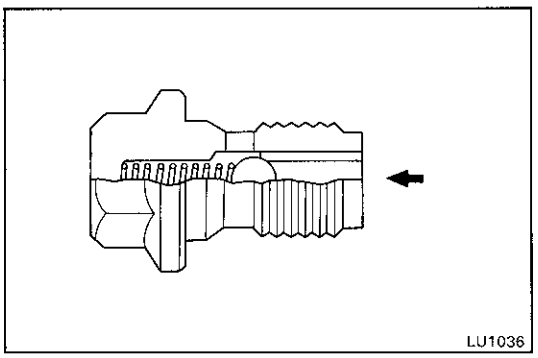


INSPECTION OF OIL COOLER, RELIEF VALVE AND CHECK VALVE

1. INSPECT RELIEF VALVE

Push the valve with a wooden stick to check if it is stuck.

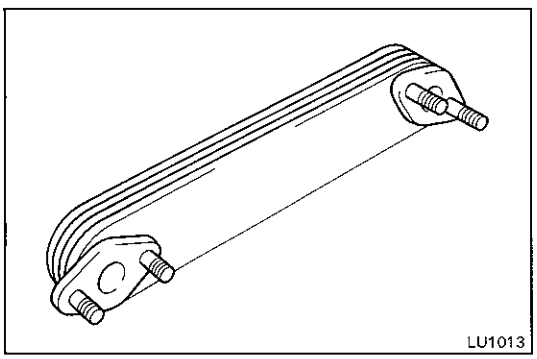
If stuck, replace the relief valve.



2. INSPECT CHECK VALVE

Push the valve with a wooden stick to check if it is stuck.

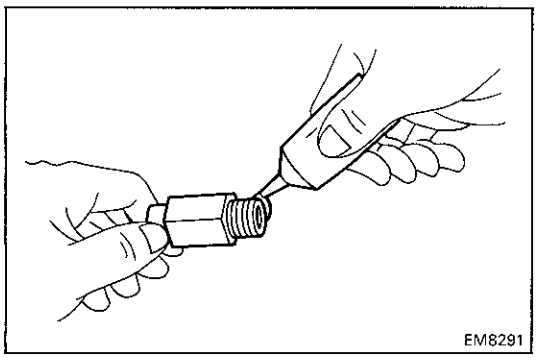
If stuck, replace the check valve.



3. INSPECT OIL COOLER

Check the oil cooler for damage or clogging.

If necessary, replace the oil cooler.



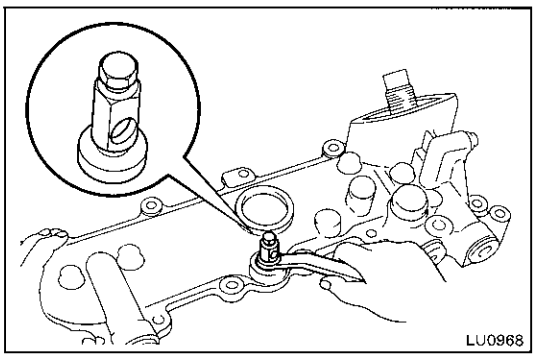
INSTALLATION OF OIL COOLER, RELIEF VALVE AND CHECK VALVE

(See page LU-15)

1. INSTALL ENGINE DRAIN COCK

(a) Apply adhesive to two or three threads of the drain cock.

Adhesive: Part No. 08833-00070, THREE BOND 1324 or equivalent



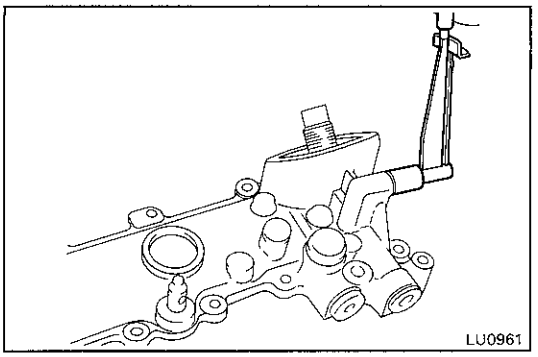
(b) Install and torque the drain cock as shown.

Torque: 200 kg-cm (14 ft-lb, 20 N·m)

2. INSTALL CHECK VALVE

Install the check valve with a new gasket.

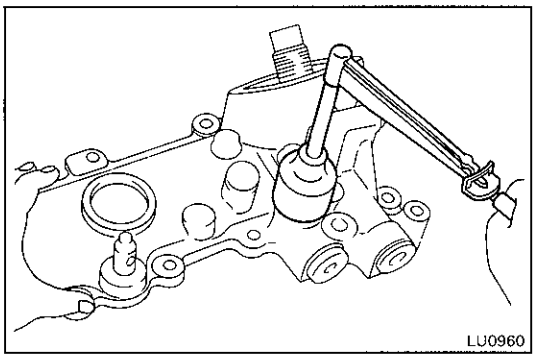
Torque: 275 kg-cm (20 ft-lb, 27 N·m)



3. INSTALL RELIEF VALVE

Install the relief valve with a new gasket.

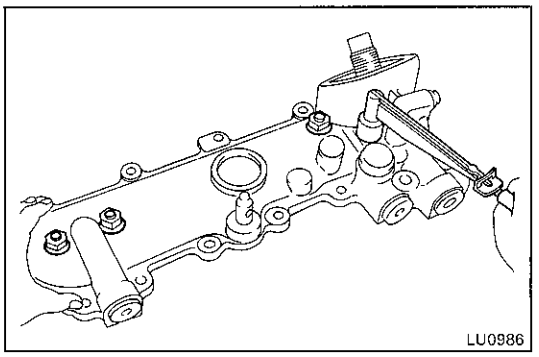
Torque: 400 kg-cm (29 ft-lb, 39 N·m)

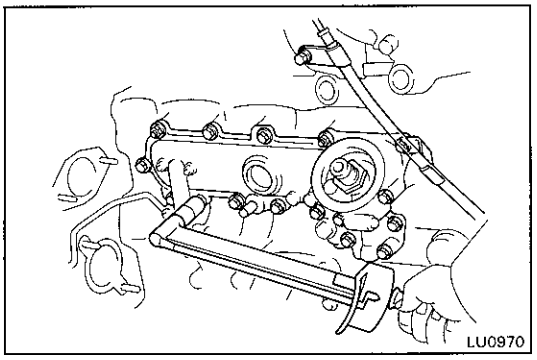


4. ASSEMBLE OIL COOLER AND OIL COOLER COVER

Install two new gaskets and the oil cooler to the oil cooler cover with the four nuts.

Torque: 200 kg-cm (14 ft-lb, 20 N·m)





5. **INSTALL OIL COOLER AND OIL COOLER COVER ASSEMBLY**

Install a new gasket, the oil cooler and oil cooler cover assembly with the thirteen bolts and two nuts.

Torque: 200 kg-cm (14 ft-lb, 20 N·m)

6. **INSTALL OIL DIPSTICK GUIDE AND DIPSTICK**

(a) Install a new O-ring to the oil dipstick guide.

(b) Apply engine oil to the new O-ring.

(c) Install the oil dipstick and guide with the two bolts.

Torque:
Intake manifold side
200 kg-cm (14 ft-lb, 20 N·m)
Oil cooler cover side
200 kg-cm (14 ft-lb, 20 N·m)

7. **INSTALL INJECTION PUMP**
(See page FU-93)

8. **INSTALL OIL FILTER (See page LU-6)**

9. **FILL WITH ENGINE COOLANT (See page CO-5)**

10. **START ENGINE AND CHECK FOR LEAKS**

11. **CHECK ENGINE OIL (See page LU-5)**