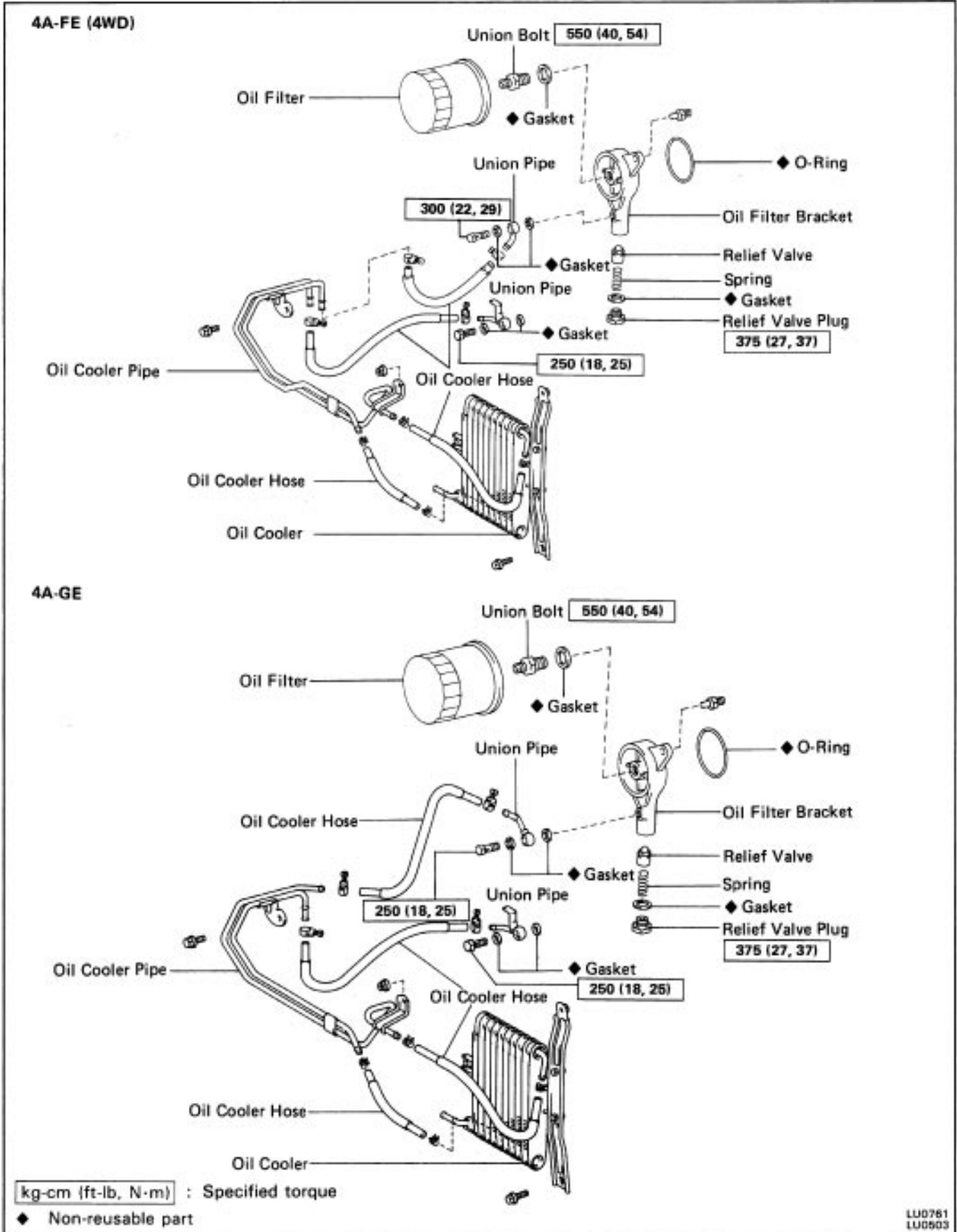
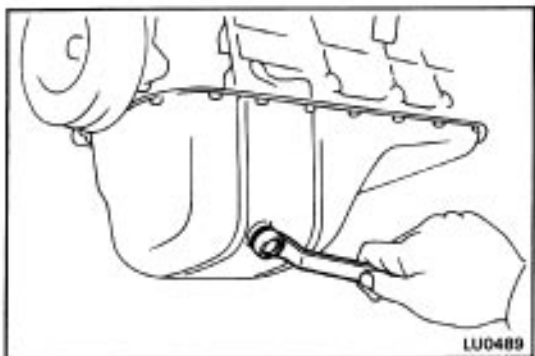


OIL COOLER AND PRESSURE REGULATOR COMPONENTS



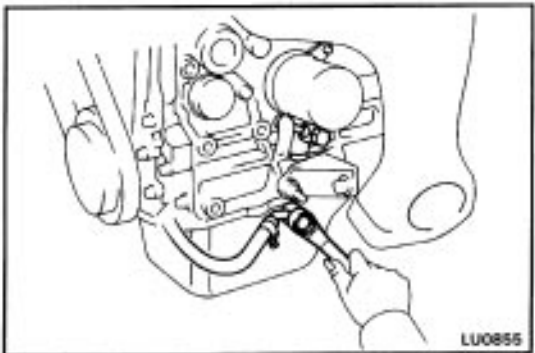


REMOVAL OF OIL COOLER AND RELIEF VALVE

(See page [LU-18](#))

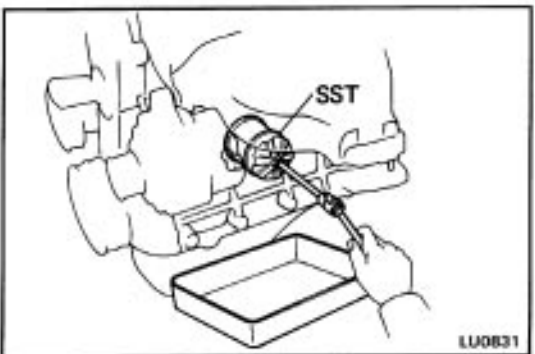
1. DRAIN ENGINE OIL

- (a) Remove the oil filler cap.
- (b) Remove the oil drain plug and drain the oil into a container.



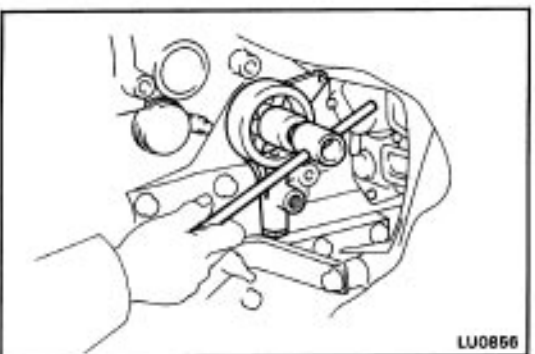
2. REMOVE OIL COOLER HOSES AND PIPE

- (a) Remove the oil cooler hose and union from the oil pan.
- (b) Disconnect the oil cooler hose from the bracket.



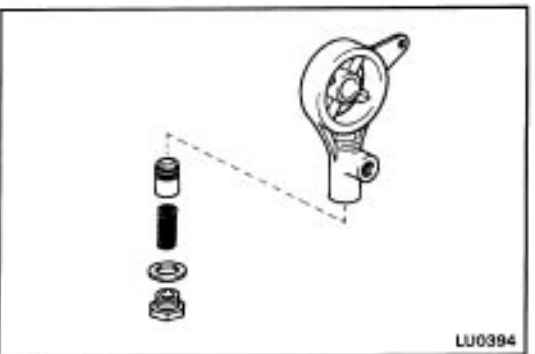
3. REMOVE OIL FILTER

Using SST, remove the oil filter.
SST 09228-06500



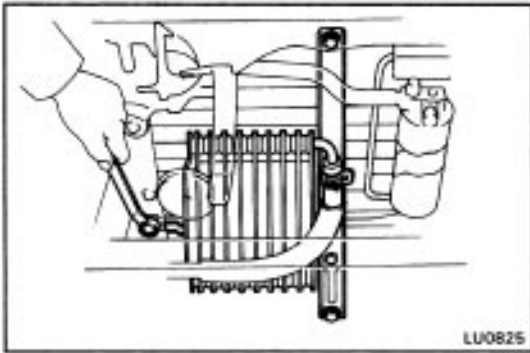
4. REMOVE OIL FILTER BRACKET

Remove the union bolt, oil filter bracket and O-ring.



5. REMOVE RELIEF VALVE

Unscrew the relief valve plug and remove the spring, union and the gasket.



6. REMOVE OIL COOLER

- (a) Disconnect the hoses from the oil cooler.
- (b) (4A-FE)
Remove the two bolts, nut and oil cooler.
- (b) (4A-G E)
Remove the three bolts and oil cooler.



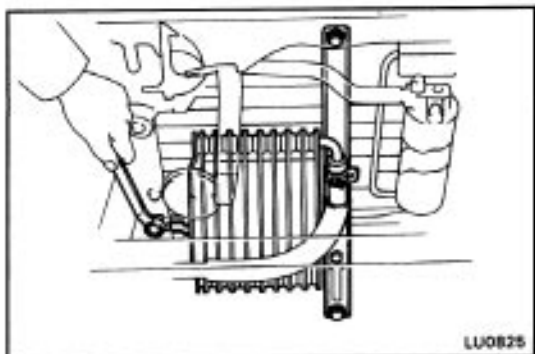
INSPECTION OF OIL COOLER AND RELIEF VALVE

1. INSPECT OIL COOLER

Check the oil cooler for damage or clogging.

2. INSPECT RELIEF VALVE

Coat the relief valve with engine oil, and check that it falls smoothly into the valve hole by its own weight. If it does not, replace the relief valve. If necessary, replace the oil filter bracket assembly.

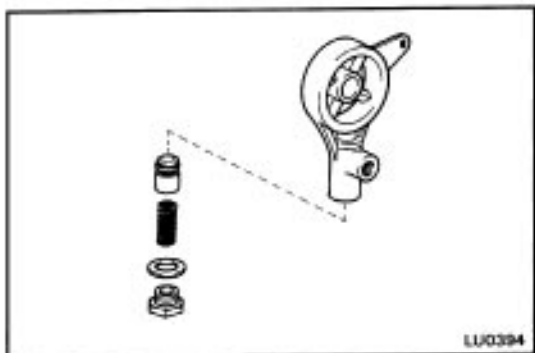


INSTALLATION OF OIL COOLER AND RELIEF VALVE

(See page [LU-18](#))

1. INSTALL OIL COOLER

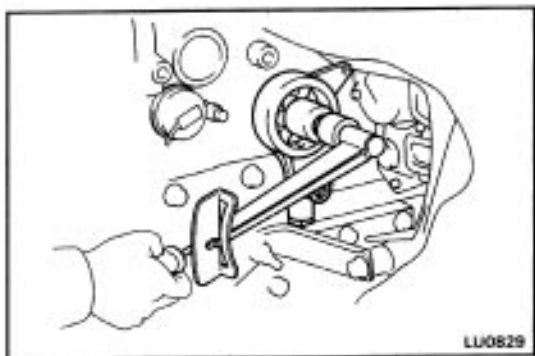
- (a) (4A-FE)
Install the oil cooler with the two bolts and nut.
- (b) (4A-GE)
Install the oil cooler with the three bolts.
- (c) Connect the hoses to the oil cooler.



2. INSTALL RELIEF VALVE

Install the relief valve, spring, a new gasket and screw on the relief valve plug. Torque the plug.

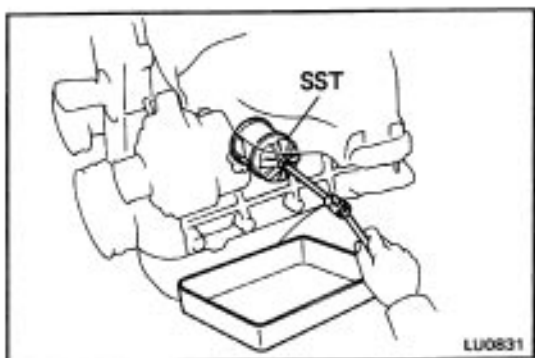
Torque: 375 kg-cm (27 ft-lb, 37 N-m)



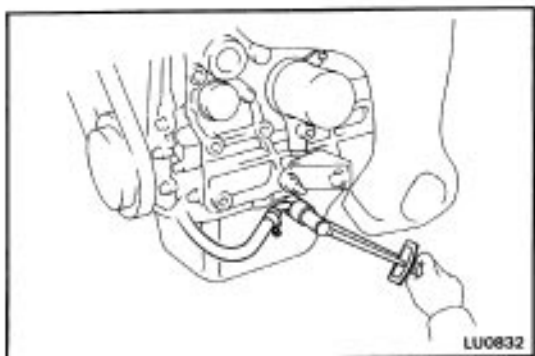
3. INSTALL OIL FILTER BRACKET

Install a new O-ring and the filter bracket with the union bolt. Torque the union bolt.

Torque: 550 kg-cm (40 ft-lb, 54 N-m)



4. INSTALL OIL FILTER (See page [LU-7](#))



5. INSTALL OIL COOLER PIPE AND HOSES

- (a) Connect the oil cooler hose to the bracket.
- (b) Install the cooler pipe, two new gaskets and union bolt.
Torque the union bolt.
Torque: 250 kg-cm (18 ft-lb, 25 N-m)

6. REFILL WITH ENGINE OIL (See page [LU-7](#))

7. START ENGINE AND CHECK FOR LEAKS

8. RECHECK ENGINE OIL LEVEL

Recheck the engine oil level and refill as necessary.