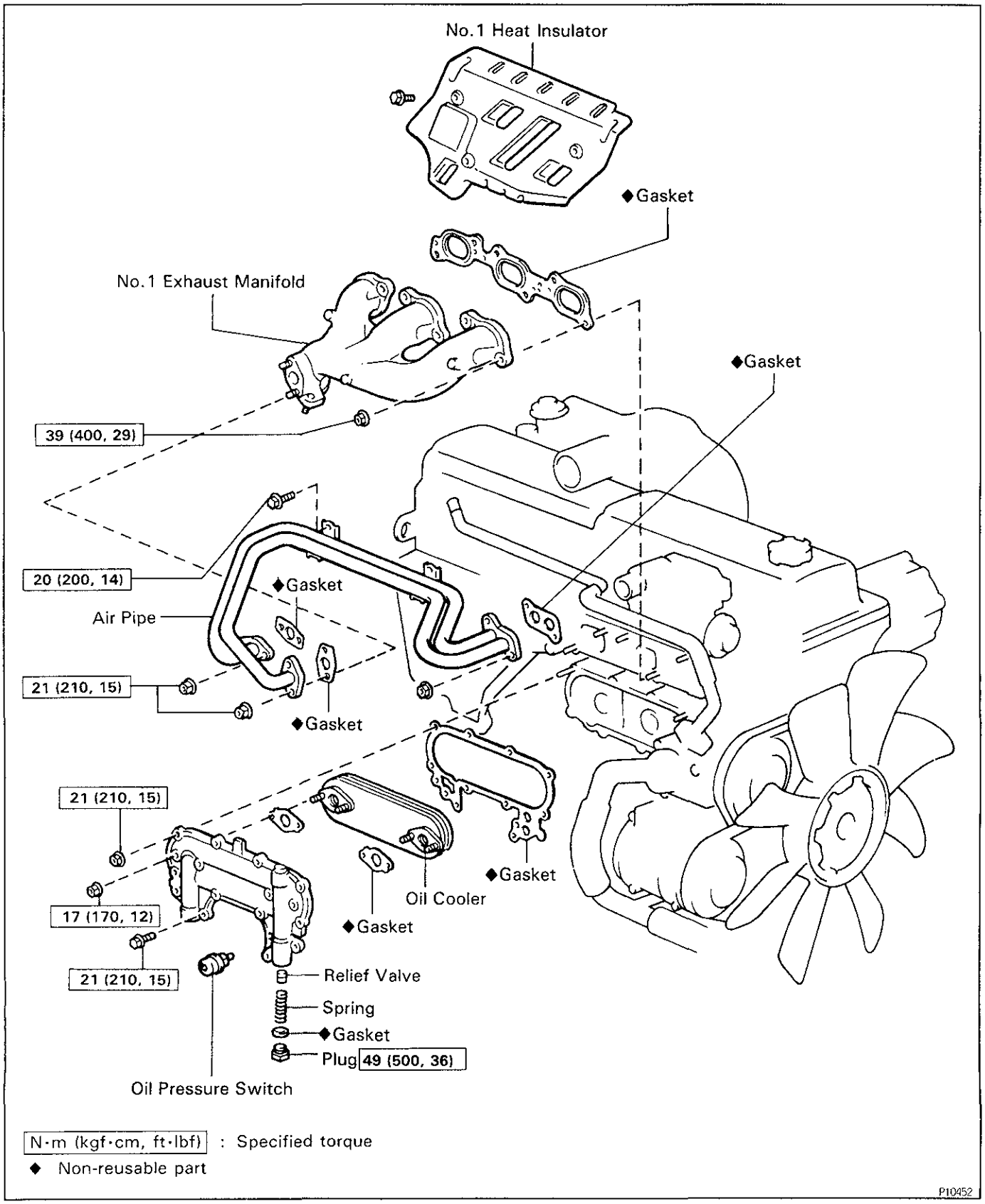
OIL COOLER

COMPONENTS FOR REMOVAL AND INSTALLATION

EG0PT-03

EG



N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

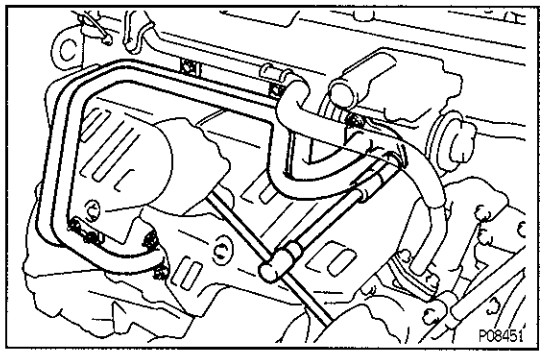
P10452

EG284–01

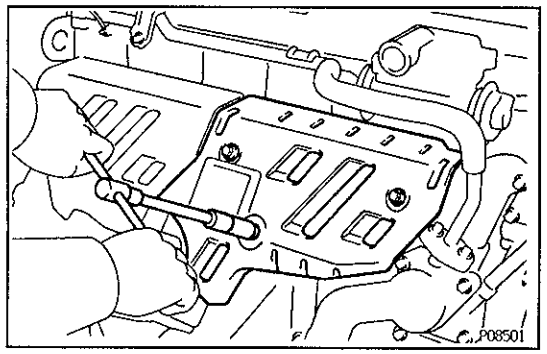
OIL COOLER REMOVAL

(See Components for Removal and Installation)

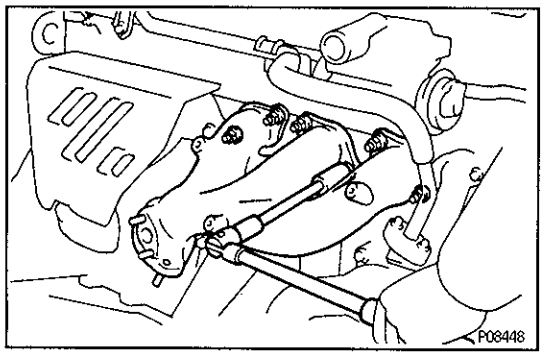
1. DRAIN ENGINE COOLANT



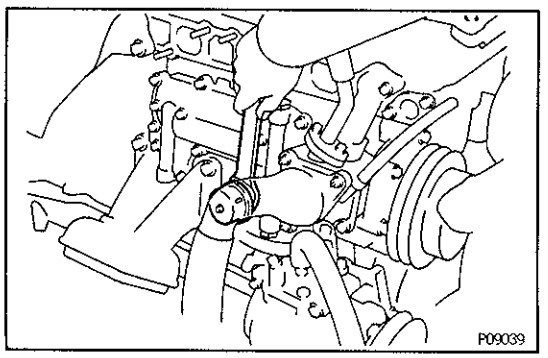
2. (Europe)
REMOVE AIR PIPE
Remove the two bolts, six nuts, air pipe and three gaskets.



3. REMOVE NO.1 EXHAUST MANIFOLD
(a) Remove the three bolts and No.1 heat insulator.

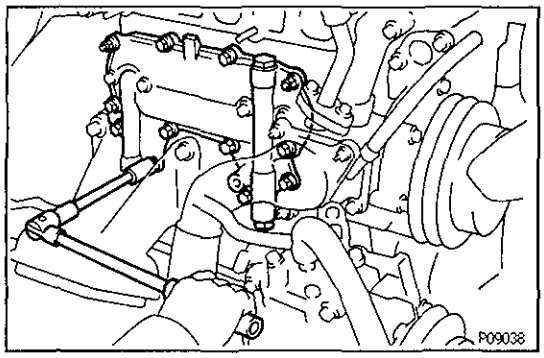


(b) Remove the six nuts, exhaust manifold and gasket.



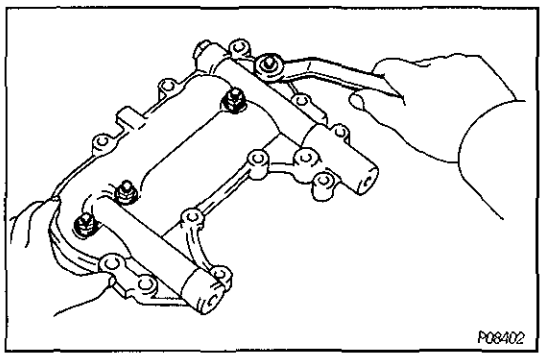
4. (1FZ–FE)
REMOVE OIL PRESSURE SWITCH

EG



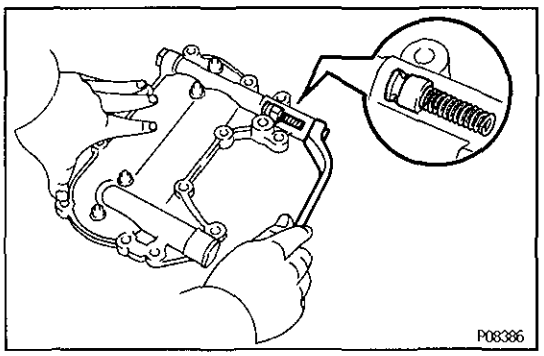
5. REMOVE OIL COOLER AND OIL COOLER COVER ASSEMBLY

Remove the ten bolts, two nuts, oil cooler and oil cooler cover 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.

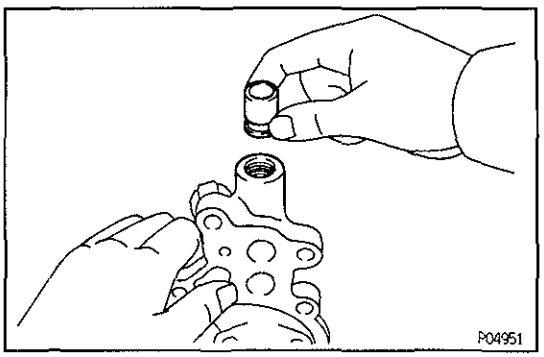


7. REMOVE RELIEF VALVE

Remove the plug, gasket, spring and relief valve.

OIL COOLER INSPECTION

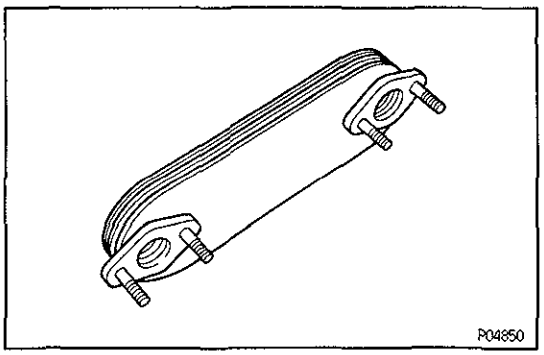
EG0N8-01



1. INSPECT RELIEF VALVE

Coat the valve with engine oil and check that it falls smoothly into the valve hole by its own weight.

If it doesn't, replace the relief valve. If necessary, replace the oil cooler cover.



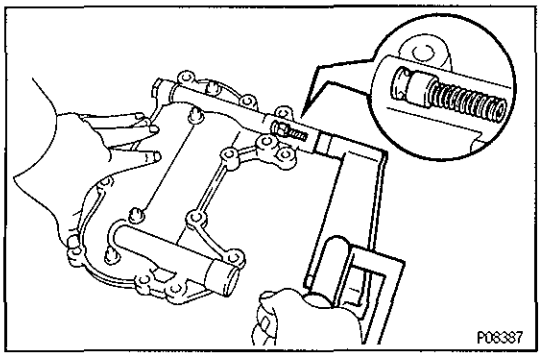
2. INSPECT OIL COOLER

Check the oil cooler for damage or clogging.

If necessary, replace the oil cooler.

EG285-01

OIL COOLER INSTALLATION

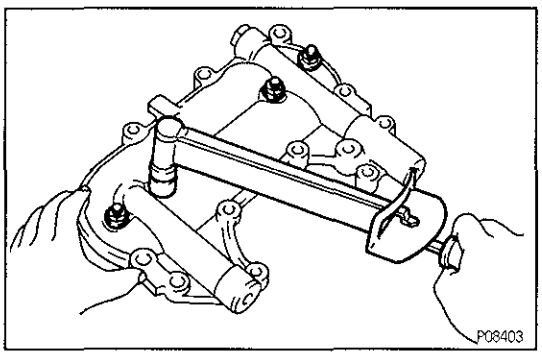


(See Components for Removal and Installation)

1. INSTALL RELIEF VALVE

Install the relief valve, spring and a new gasket with the plug.

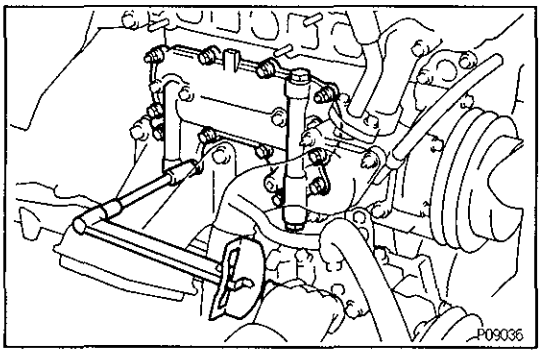
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)



2. ASSEMBLE OIL COOLER AND OIL COOLER COVER

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

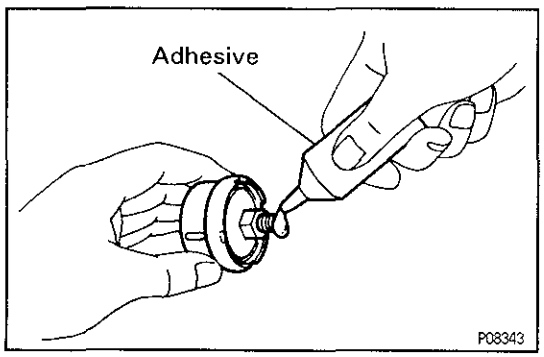
Torque: 17 N·m (170 kgf·cm, 12 ft·lbf)



3. INSTALL OIL COOLER AND OIL COOLER COVER ASSEMBLY

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

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

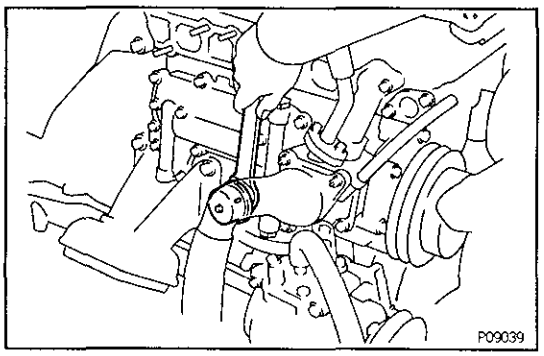


4. (1FZ–FE)
INSTALL OIL PRESSURE SWITCH

(a) Apply adhesive to two or three threads of the oil pressure switch.

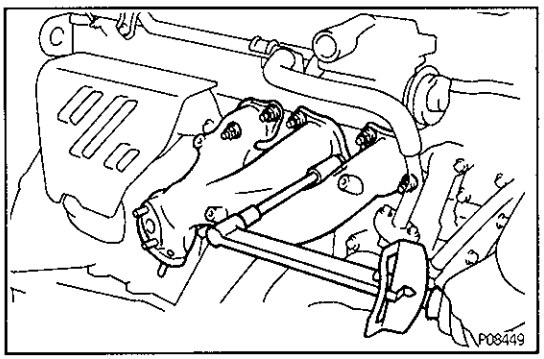
Adhesive:

Part No. 08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent



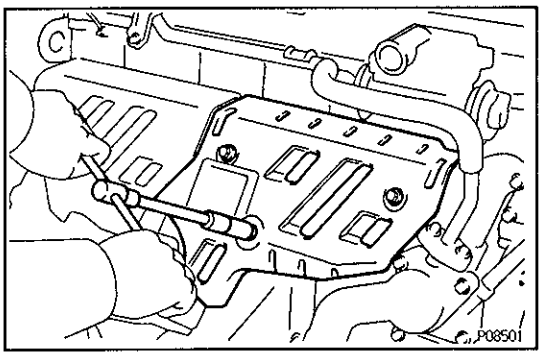
(b) Install the oil pressure switch.

EG

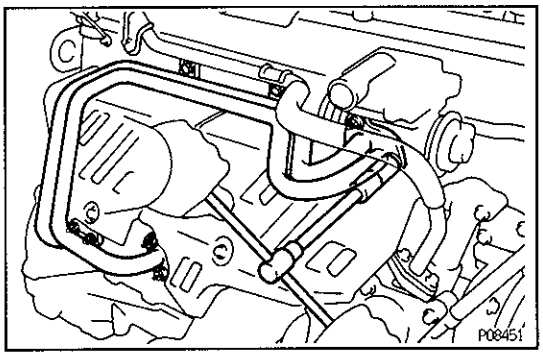


5. INSTALL NO.1 EXHAUST MANIFOLD

(a) Install a new gasket and the exhaust manifold with the six nuts.
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)



(b) Install the heat insulator with the three bolts.
Torque: 20 N·m (195 kgf·cm, 14 ft·lbf)



6. INSTALL AIR PIPE

Install three new gaskets and air pipe with the two bolts and six nuts.
Torque: 20 N·m (200 kgf·cm, 14 ft·lbf) for Bolt
Torque: 21 N·m (210 kgf·cm, 15 ft·lbf) for Nut