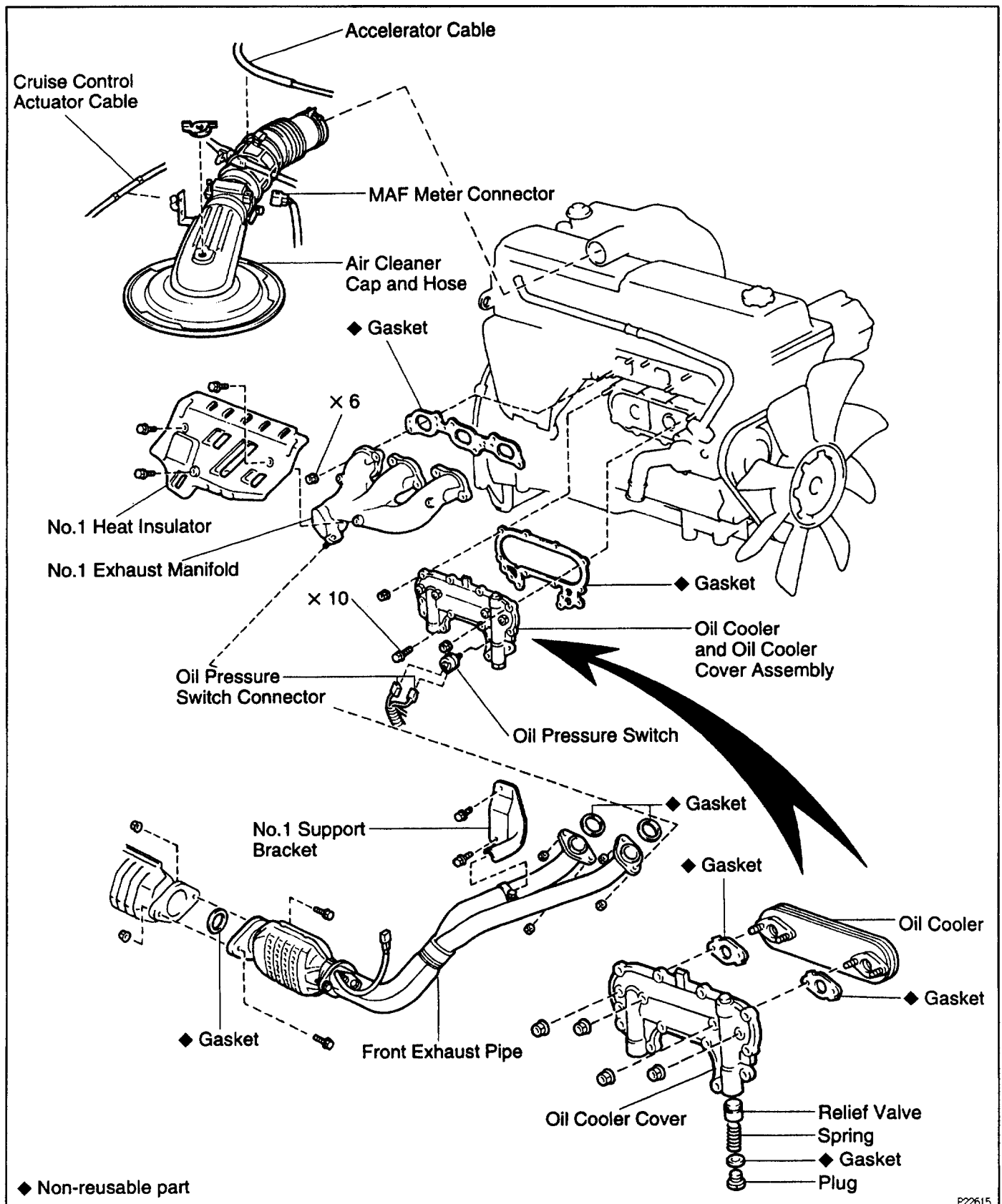
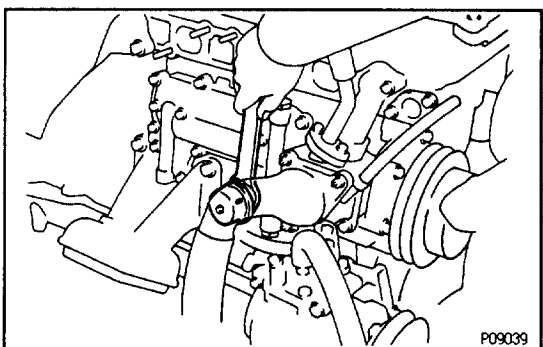
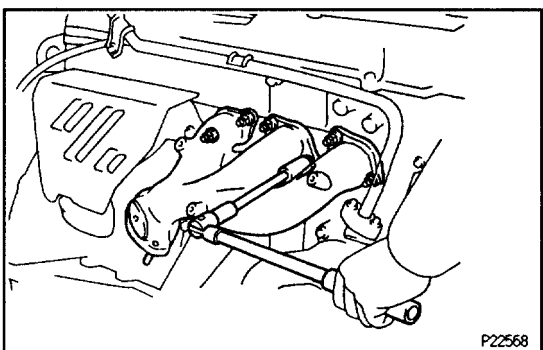
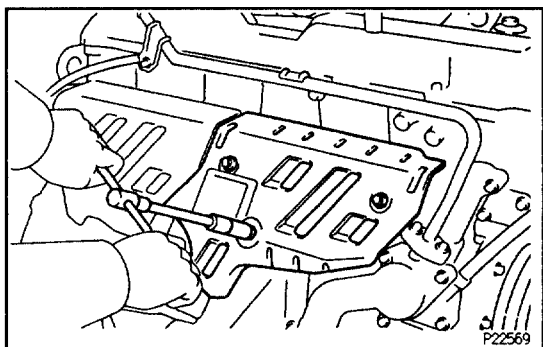
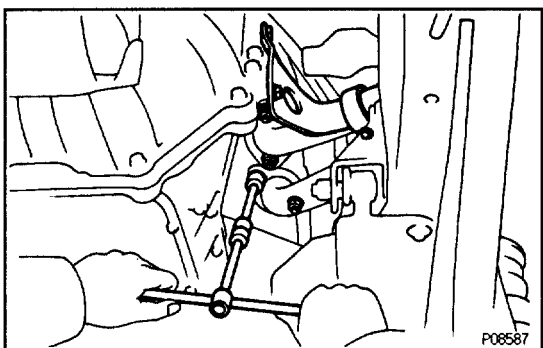
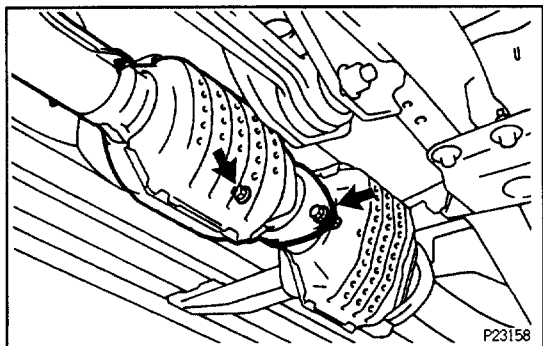


OIL COOLER COMPONENTS FOR REMOVAL AND INSTALLATION





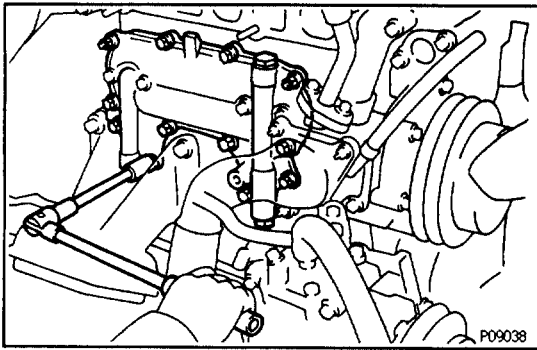
OIL COOLER REMOVAL

1. **DRAIN ENGINE COOLANT**
2. **REMOVE AIR CLEANER CAP AND HOSE**
3. **REMOVE FRONT EXHAUST PIPE**
 - (a) Disconnect the heated oxygen sensor connector.
 - (b) Remove the 2 nuts and 2 bolts holding the front exhaust pipe to the rear TWC.
 - (c) Disconnect the front exhaust pipe, and remove the gasket.
 - (d) Loosen the clamp bolt and disconnect the clamp from the No.1 support bracket.
 - (e) Remove the 2 bolts and No.1 support bracket.
 - (f) Remove the 4 nuts, front exhaust pipe and 2 gaskets.

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

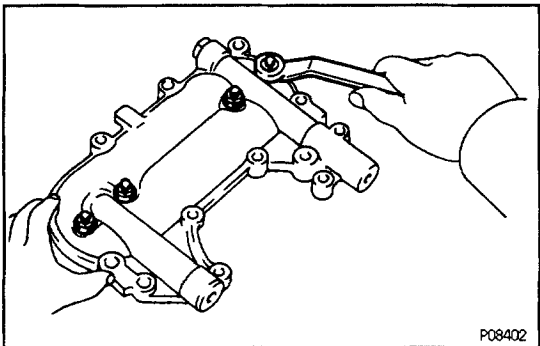
- (b) Remove the 6 nuts, exhaust manifold and gasket.

5. **REMOVE OIL PRESSURE SWITCH**



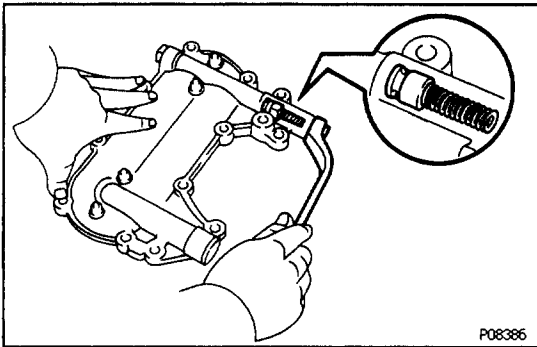
6. REMOVE OIL COOLER AND OIL COOLER COVER ASSEMBLY

Remove the 10 bolts, 2 nuts, oil cooler and oil cooler cover assembly and gasket.



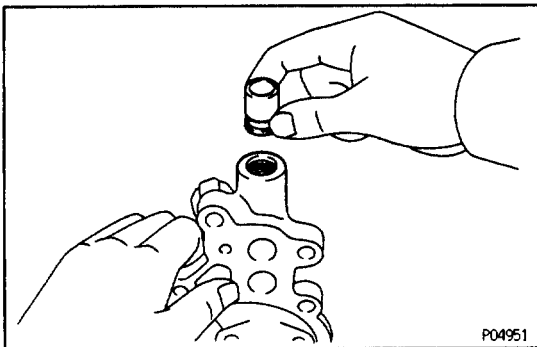
7. SEPARATE OIL COOLER AND OIL COOLER COVER

Remove the 4 nuts, oil cooler and 2 gaskets from the oil cooler cover.



8. REMOVE RELIEF VALVE

Remove the plug, gasket, spring and relief valve.



OIL COOLER INSPECTION

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.

OIL COOLER INSTALLATION

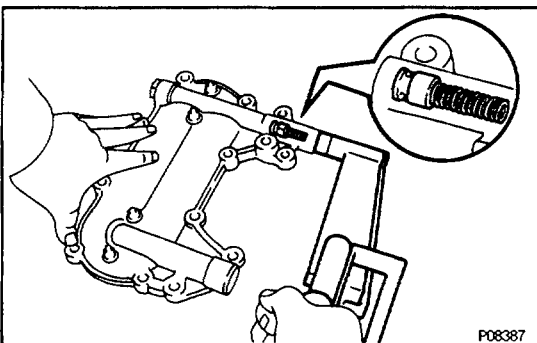
1. INSTALL RELIEF VALVE

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 2 new gaskets and the oil cooler to the oil cooler cover with the 4 nuts.

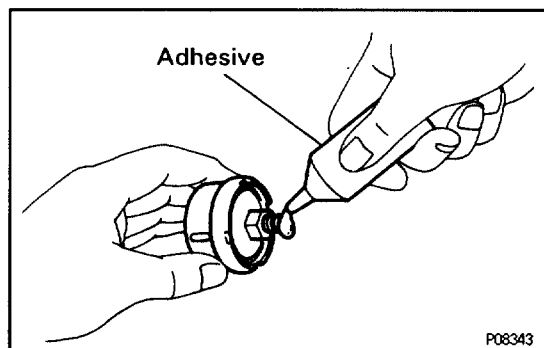


Torque: 17 N·m (170 kgf·cm, 12 ft·lbf)

3. INSTALL OIL COOLER AND OIL COOLER COVER ASSEMBLY

Install a new gasket, the oil cooler and oil cooler cover assembly with the 10 bolts and 2 nuts.

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



4. INSTALL OIL PRESSURE SWITCH

- (a) Apply adhesive to 2 or 3 threads of the oil pressure switch.

Adhesive:

Part No. 08833-00080, THREE BOND 1344

LOCTITE 242 or equivalent

- (b) Install the oil pressure switch.

5. INSTALL NO.1 EXHAUST MANIFOLD

- (a) Install a new gasket and the exhaust manifold with the 6 nuts.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

- (b) Install the heat insulator with the 3 bolts.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)

6. INSTALL FRONT EXHAUST PIPE

- (a) Install 2 new gaskets and the front exhaust pipe with the 4 nuts.

Torque: 63 N·m (630 kgf·cm, 46 ft·lbf)

- (b) Install the No.1 support bracket with the 2 bolts.

Torque: 24 N·m (240 kgf·cm, 17 ft·lbf)

- (c) Connect the clamp and tighten the clamp bolt.

Torque: 19.5 N·m (195 kgf·cm, 14 ft·lbf)

- (d) Connect the front exhaust pipe to the rear TWC with a new gasket, 2 bolts and 2 nuts.

Torque: 46 N·m (470 kgf·cm, 34 ft·lbf)

7. INSTALL AIR CLEANER CAP AND HOSE

8. FILL RADIATOR WITH ENGINE COOLANT

9. START ENGINE AND CHECK FOR LEAKS

10. CHECK ENGINE OIL