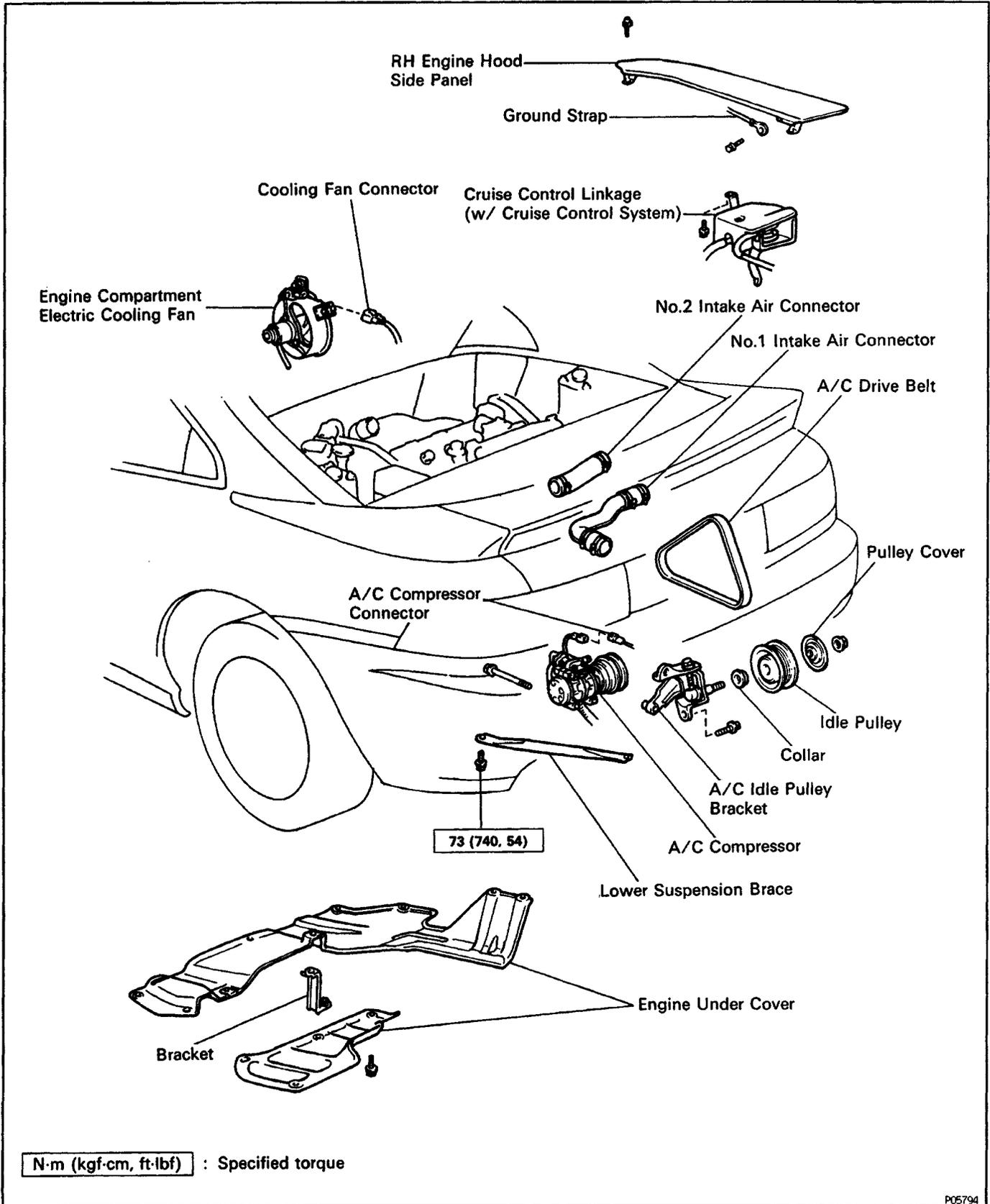
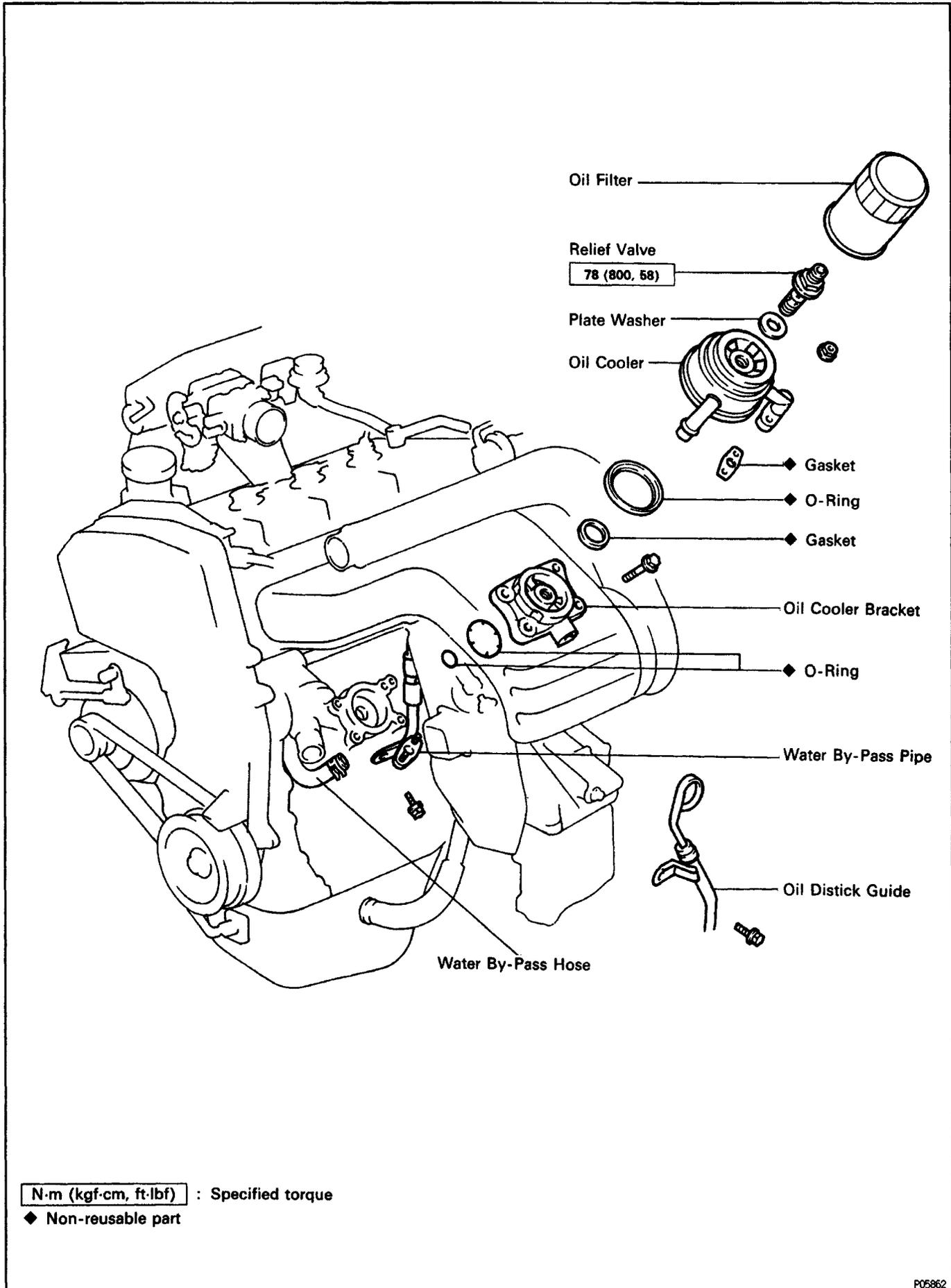


OIL COOLER COMPONENTS FOR REMOVAL AND INSTALLATION

EG10B-01

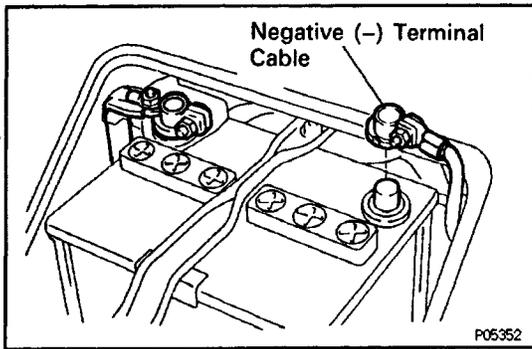




N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

00100-01



OIL COOLER REMOVAL

(See Components for Removal and Installation)

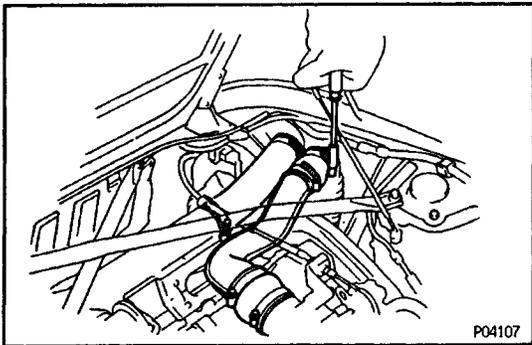
1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

CAUTION: Turn the Ignition switch to "LOCK". Disconnect the negative terminal from the battery. Wait at least 20 seconds before proceeding with work.

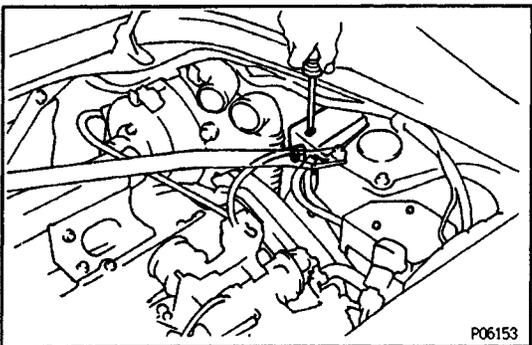
2. DRAIN ENGINE COOLANT

3. REMOVE ENGINE UNDER COVERS

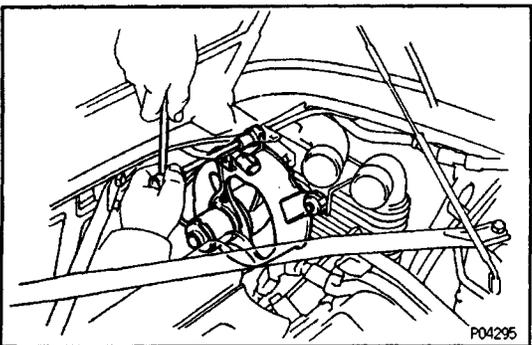
4. REMOVE RH ENGINE HOOD SIDE PANEL



5. REMOVE NO.1 AND NO.2 INTAKE AIR CONNECTORS

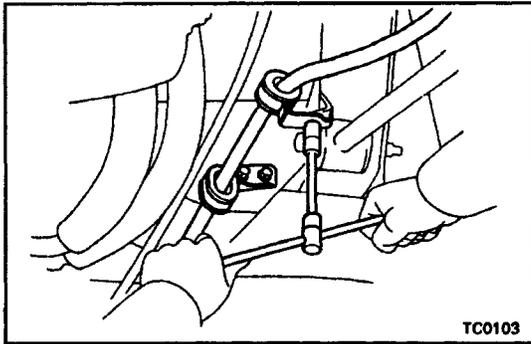


6. (w/ CRUISE CONTROL SYSTEM) DISCONNECT CRUISE CONTROL ACCELERATOR LINKAGE



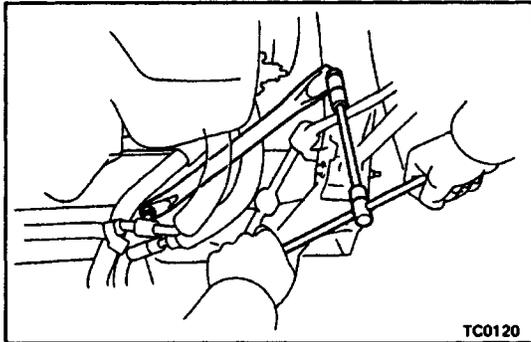
7. REMOVE ENGINE COMPARTMENT ELECTRIC COOLING FAN

- (a) Disconnect the cooling fan connector.
- (b) Loosen the three bolts, and remove the cooling fan.

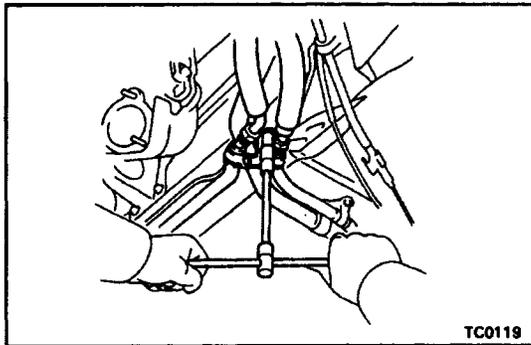


8. DISCONNECT A/C COMPRESSOR FROM ENGINE

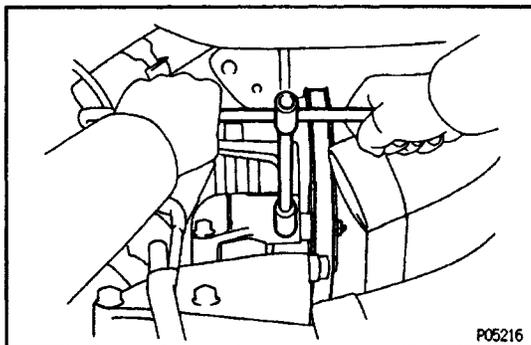
(a) Remove the three clamp bolts, and disconnect the parking brake cable.



(b) Remove the two bolts and lower suspension brace.

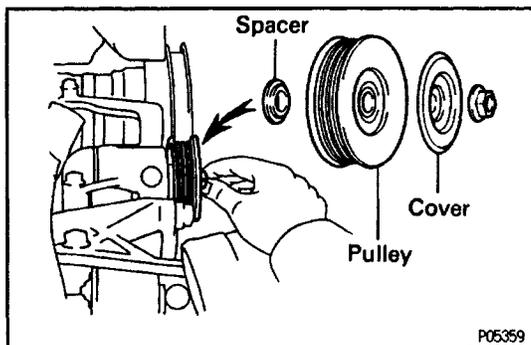


(c) Remove the clamp nut, and disconnect the two A/C pipes.

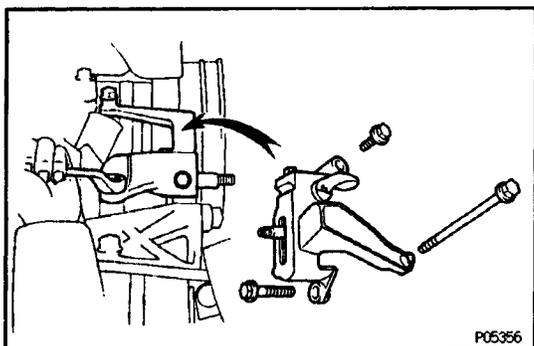


(d) Loosen the idler pulley nut.

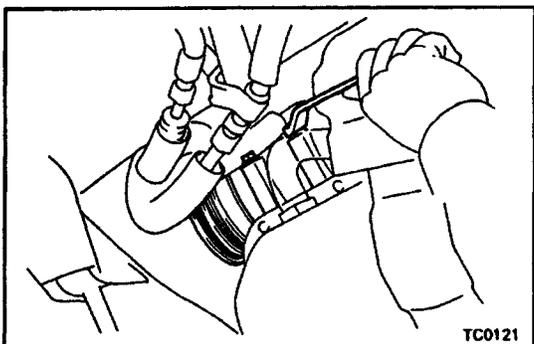
(e) Loosen the adjusting bolt, and remove the drive belt.



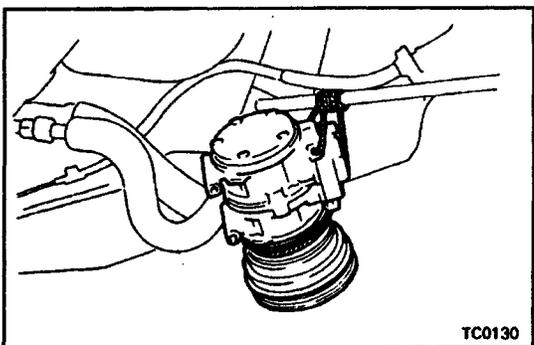
(f) Remove the nut, pulley cover, idler pulley and spacer.



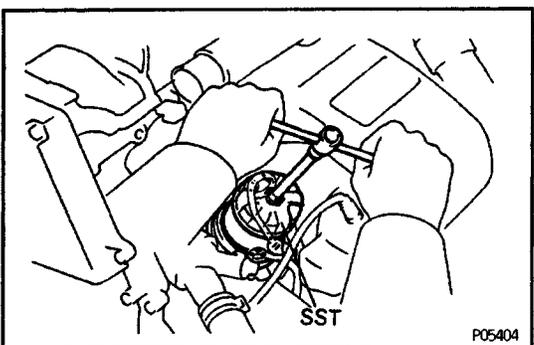
- (g) Disconnect the A/C compressor connector.
 (h) Remove the three bolts and idler pulley bracket.



- (i) Remove the two bolts, and disconnect the A/C compressor from the engine.

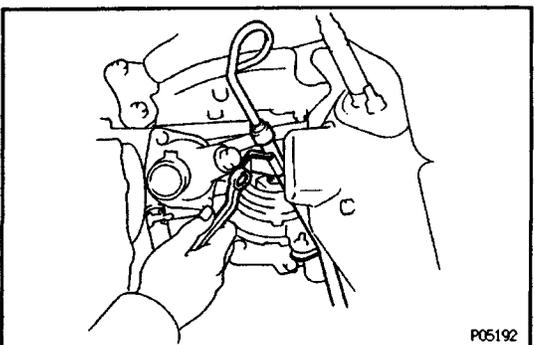


HINT: Suspend the A/C compressor to strut rod with a string.



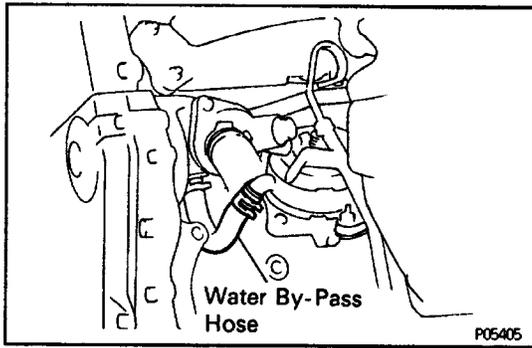
9. REMOVE OIL FILTER

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



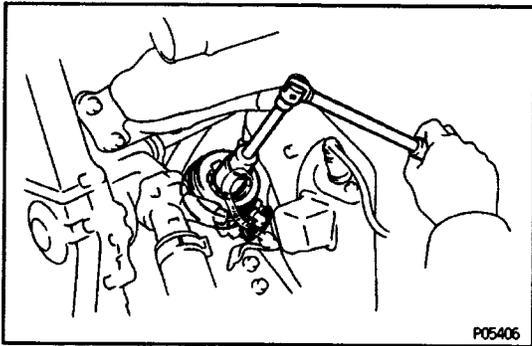
10. DISCONNECT OIL DIPSTICK GUIDE FROM OIL COOLER

Remove the bolt, and disconnect the dipstick guide from the water inlet.



11. REMOVE OIL COOLER

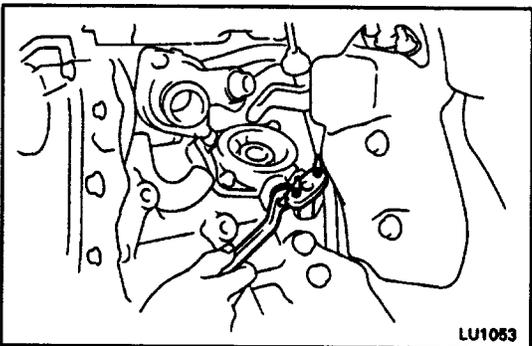
(a) Disconnect the water by-pass hose from oil cooler.



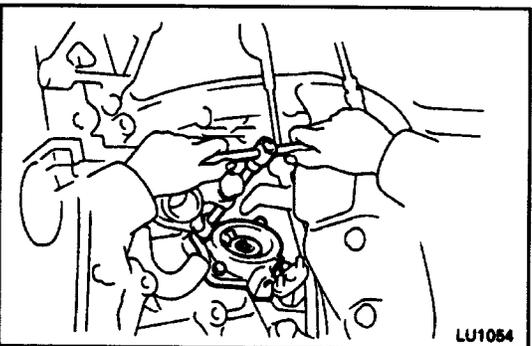
(b) Remove the relief valve and plate washer.

(c) Remove the two nuts and oil cooler.

(d) Remove the O-ring and gasket from the oil cooler.



(e) Remove the bolt, and disconnect the water by-pass pipe from the oil cooler bracket.



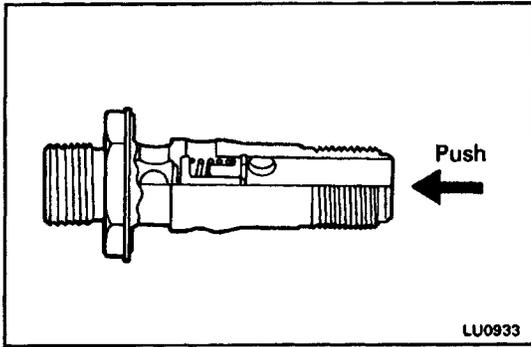
12. REMOVE OIL COOLER BRACKET

(a) Remove the relief valve and plate washer.

(b) Remove the four bolts and oil cooler bracket.

(c) Remove the two O-rings from the oil cooler bracket.

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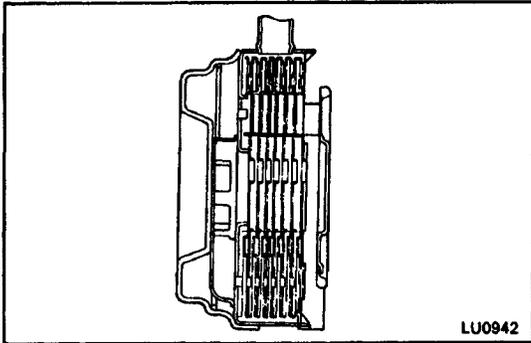


OIL COOLER INSPECTION

1. INSPECT RELIEF VALVE

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

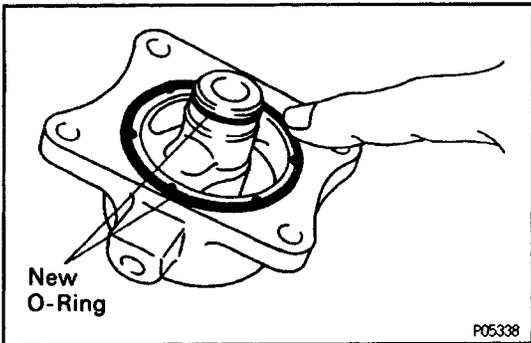
If stuck, replace the relief valve.



2. INSPECT OIL COOLER

Check the oil cooler for damage or clogging.

If necessary, replace the oil cooler.

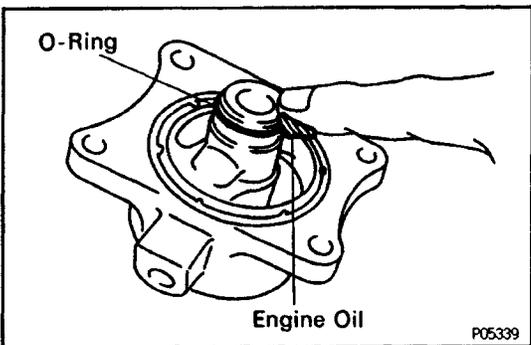


OIL COOLER INSTALLATION

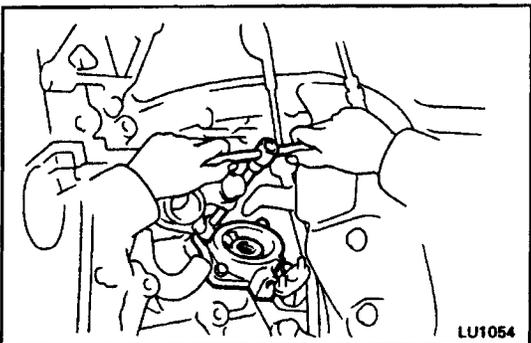
(See Components for Removal and Installation)

1: INSTALL OIL COOLER BRACKET

(a) Install two new O-rings to the oil cooler bracket.



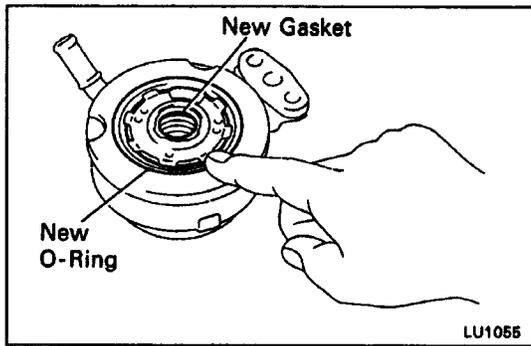
(b) Apply a light coat of engine oil on the small O-ring.



(c) Install the oil cooler bracket with the four bolts.

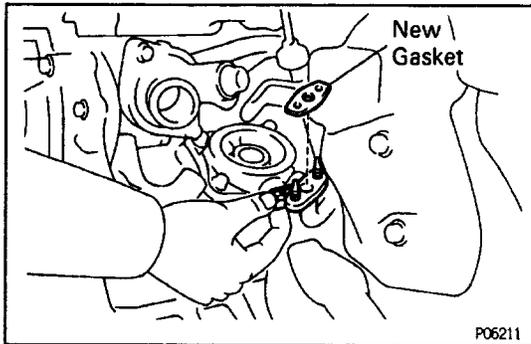
Torque: 78 N-m (800 kgf-cm, 58 ft-lbf)

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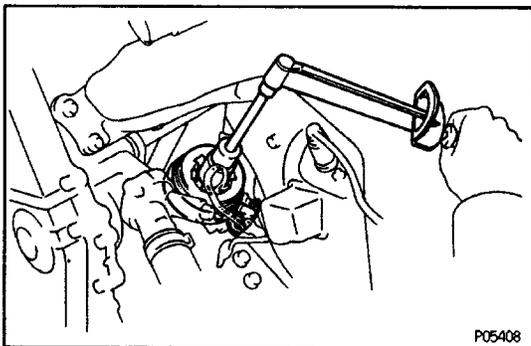
2. INSTALL OIL COOLER

(a) Install new O-ring and gasket to the oil cooler.



(b) Temporarily install the water by-pass pipe with the bolt.

(c) Place a new gasket on the water by-pass pipe.



(d) Temporarily install the oil cooler with the two nuts.

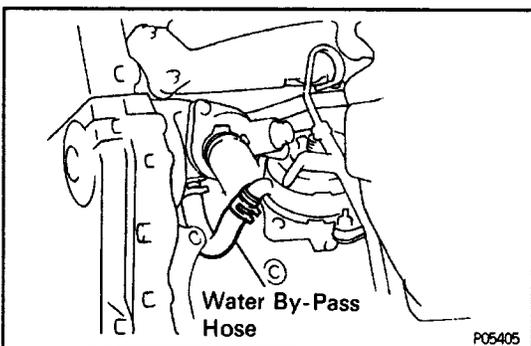
(e) Apply a light coat of engine oil on the threads and under the head of the relief valve.

(f) Install the plate washer and relief valve.

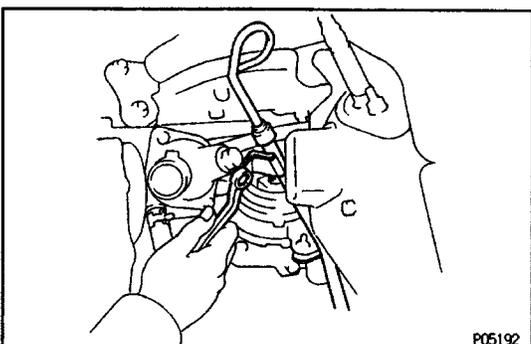
Torque: 78 N-m (800 kgf-cm, 58 ft-lbf)

(g) Tighten the two nuts.

Torque: 7.8 N-m (80 kgf-cm, 69 in.-lbf)

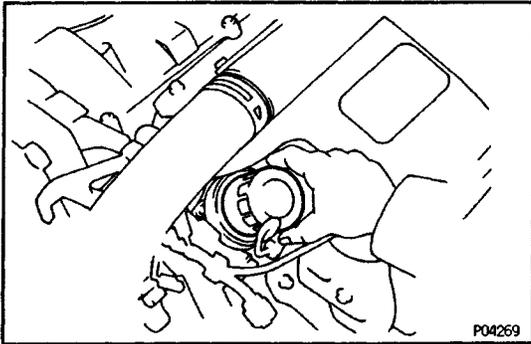


(h) Connect the water by-pass hose to the oil cooler.



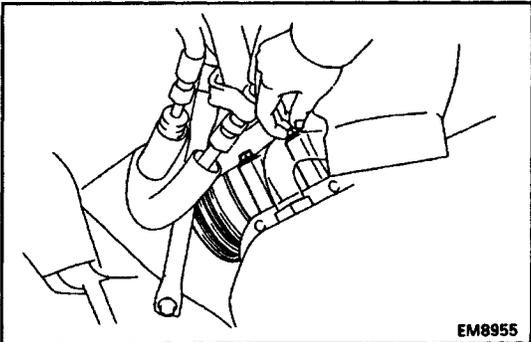
3. INSTALL OIL DIPSTICK GUIDE TO WATER INLET

Install the dipstick guide with the bolt.



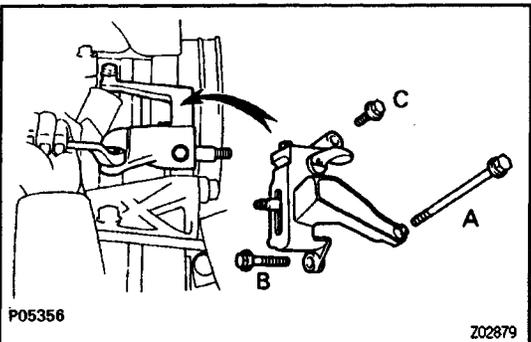
4. INSTALL OIL FILTER

(See Replacement of Oil and Oil Filter)



5. INSTALL A/C COMPRESSOR

(a) Temporarily install the A/C compressor with the two bolts.



(b) Install the idler pulley bracket with the three bolts.

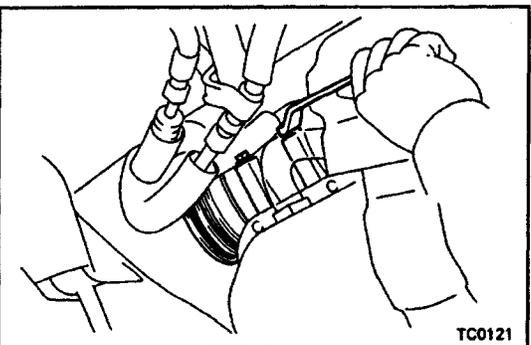
Torque:

25 N-m (250 kgf-cm, 18 ft-lbf) for A

27 N-m (275 kgf-cm, 20 ft-lbf) for B

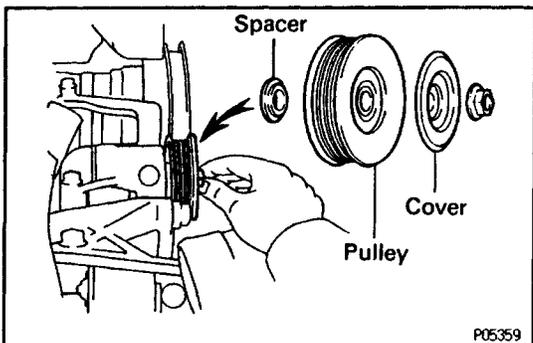
37 N-m (375 kgf-cm, 27 ft-lbf) for C

(c) Connect the A/C compressor connector.

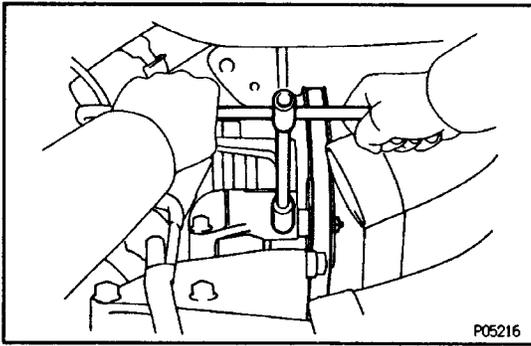


(d) Tighten the two bolts of the lower side of the A/C compressor.

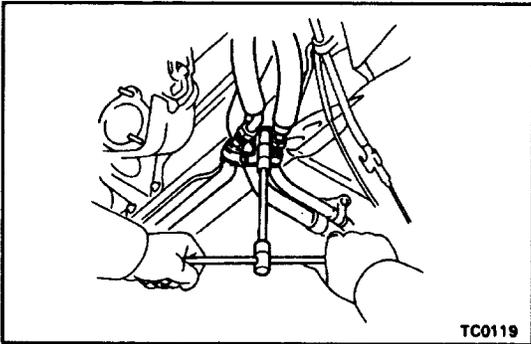
Torque: 25 N-m (250 kgf-cm, 18 ft-lbf)



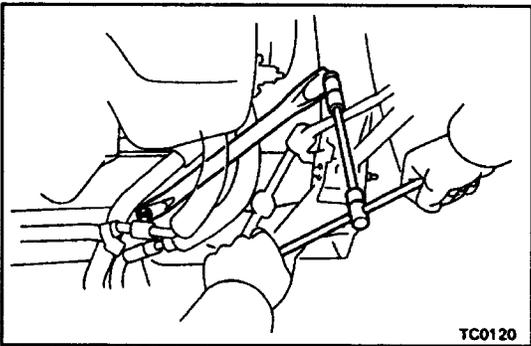
(e) Temporarily install the spacer, pulley and pulley cover with the nut.



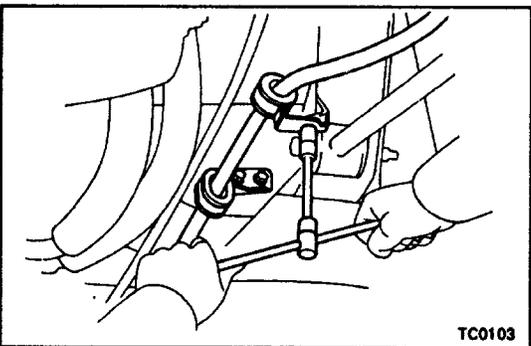
- (f) Install the drive belt with the adjusting bolt.
- (g) Tighten the idler pulley nut.



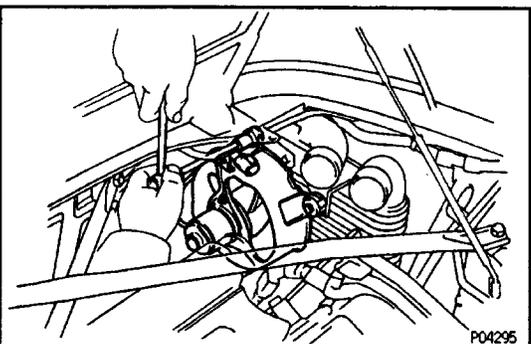
- (h) Install the two A/C pipes with the two clamps and nut.



- (i) Install the lower suspension brace with the two bolts.
Torque: 73 N-m (740 kgf-cm, 54 ft-lbf)

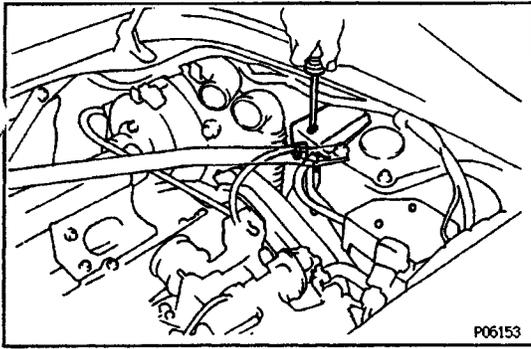


- (j) Install the parking brake cable with the two clamp and three bolts.

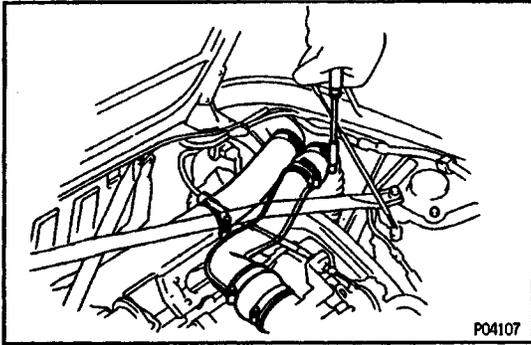


6. INSTALL ENGINE COMPARTMENT ELECTRIC COOLING FAN

- (a) Install the cooling fan with the three bolts.
- (b) Connect the cooling fan connector.



7. (w/ CRUISE CONTROL SYSTEM)
INSTALL CRUISE CONTROL ACCELERATOR
LINKAGE



8. INSTALL NO.1 AND NO.2 INTAKE AIR
CONNECTORS

9. INSTALL RH ENGINE HOOD SIDE PANEL
10. CONNECT CABLE TO NEGATIVE TERMINAL OF
BATTERY
11. FILL WITH ENGINE COOLANT
12. START ENGINE AND CHECK FOR LEAKS
13. CHECK ENGINE OIL LEVEL
14. INSTALL ENGINE UNDER COVERS