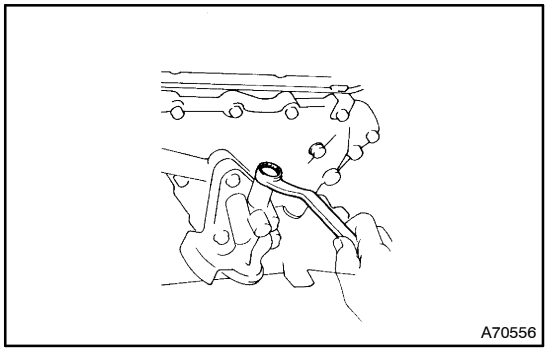
OIL COOLER ASSY (15B–FTE)

170E9–01

REPLACEMENT

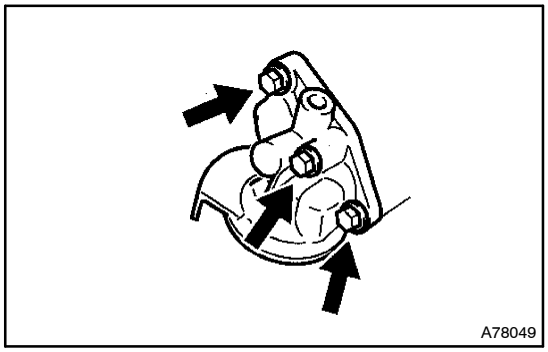
1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
2. **DRAIN ENGINE OIL**
3. **DRAIN ENGINE COOLANT**
4. **REMOVE FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE)** **(See page 72–2)**
5. **REMOVE PARKING BRAKE HOLE COVER (W/O TILT CAB CAB TYPE)** **(See page 33–11)**
6. **REMOVE PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE)** **(See page 33–11)**
7. **REMOVE FLOOR SHIFT SHIFT LEVER KNOB SUB–ASSY (W/O TILT CAB CAB TYPE)**
8. **REMOVE SHIFTING HOLE COVER SUB–ASSY AND SHIFT LEVER BOOT COVER (W/O TILT CAB CAB TYPE)**
9. **REMOVE SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE)** **(See page 41–19)**
10. **REMOVE FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE)** **(See page 41–11)**
11. **REMOVE ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE)** **(See page 14–62)**
12. **REMOVE OIL FILTER SUB–ASSY** **(See page 17–18)**
13. **REMOVE TURBO OIL PIPE AND TURBOCHARGER STAY**
14. **REMOVE EXHAUST PIPE ASSY FRONT**

(a) Remove the 4 bolts, 3 nuts and the exhaust pipe.

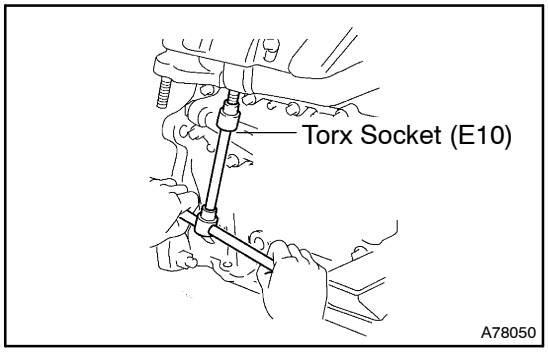


15. **REMOVE OIL FILTER BRACKET SUB–ASSY**

(a) Remove the plug, gasket, spring relief valve and gasket.

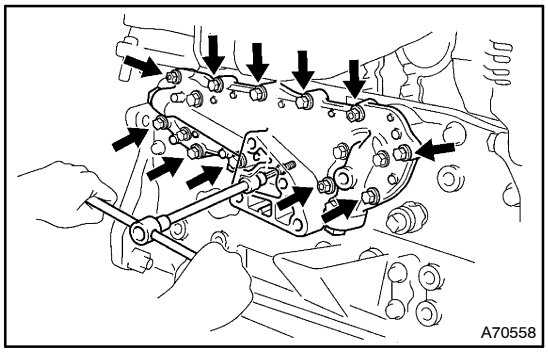


(b) Remove the 3 bolts, bracket and gasket.



16. REMOVE MANIFOLD TO EXHAUST PIPE STUD BOLT

(a) Using a torx socket (E10), remove the stud bolt.



17. REMOVE OIL COOLER CASE

(a) Using a 6 mm hexagon wrench, remove the bolt and washer.

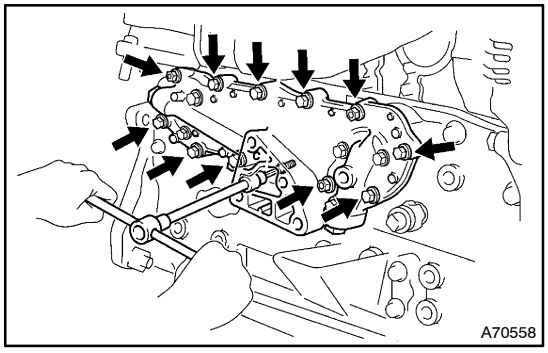
(b) Remove the 8 bolts, 3 nuts, oil cooler case and gasket.

18. REMOVE OIL COOLER ASSY

(a) Remove the 4 nuts, oil cooler assy and gasket.

19. INSTALL OIL COOLER ASSY

(a) Install 2 new gaskets and the oil cooler assy to the oil cooler case with the 4 nuts.
Torque: 16 N·m (163 kgf·cm, 12 ft·lbf)

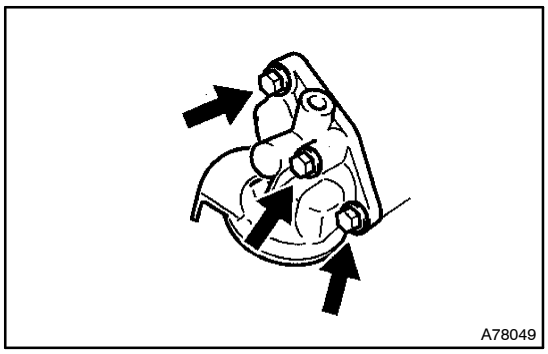


20. INSTALL OIL COOLER CASE

(a) Install a new gasket, the oil cooler case with the 8 bolts and 3 nuts. Uniformly tighten the bolts and nuts in several passes.
Torque: 21 N·m (214 kgf·cm, 15 ft·lbf)

(b) Using a 6 mm wrench, install the washer and bolt.
Torque: 21 N·m (214 kgf·cm, 15 ft·lbf)

21. INSTALL MANIFOLD TO EXHAUST PIPE STUD BOLT
Torque: 47 N·m (480 kgf·cm, 35 ft·lbf)



22. INSTALL OIL FILTER BRACKET SUB–ASSY

(a) Install a new gasket and the oil filter bracket with the 3 bolts.
Torque: 44 N·m (449 kgf·cm, 32 ft·lbf)

HINT:
Bolt length:
A 70 mm (2.95 in.)
B 55 mm (2.17 in.)
C 35 mm (1.38 in.)

(b) Install the relief valve and spring with a new gasket and the relief valve.
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

23. INSTALL TURBO OIL PIPE AND TURBOCHARGER STAY
24. INSTALL EXHAUST PIPE ASSY FRONT
(a) Install the exhaust pipe front with the 4 bolts and 3 nuts.
25. INSTALL OIL FILTER SUB–ASSY (See page 17–18)
26. INSTALL ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE) (See page 14–62)
27. INSTALL FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE) (See page 41–11)
28. INSTALL SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE) (See page 41–19)
29. INSTALL PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE) (See page 33–11)
30. INSTALL FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE) (See page 72–2)
31. ADJUST PARKING BRAKE SHOE CLEARANCE (CENTER PARKING BRAKE) (See page 33–11)
32. INSPECT AND ADJUST PARKING BRAKE LEVER TRAVEL (See page 33–11)
33. REFILL ENGINE COOLANT
34. ADD ENGINE OIL
35. CONNECT BATTERY NEGATIVE TERMINAL
36. CHECK FOR ENGINE COOLANT LEAKS
37. CHECK ENGINE OIL LEVEL
38. CHECK FOR ENGINE OIL LEAKS