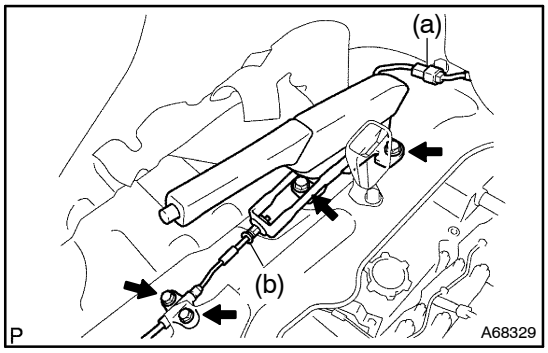
WATER PUMP ASSY (14B)

160JY–01

REPLACEMENT

1. DISCONNECT BATTERY NEGATIVE TERMINAL
2. DRAIN ENGINE COOLANT
3. REMOVE FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE) (See page 72–2)
4. REMOVE PARKING BRAKE HOLE COVER (W/O TILT CAB CAB TYPE)

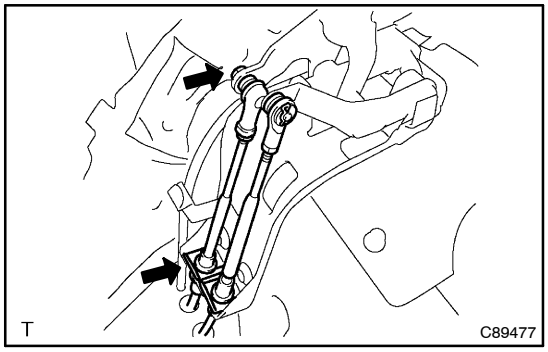


5. REMOVE PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE)

(a) Disconnect the parking barake switch connector.
(b) Fixing the adjusting nut, loosen the lock nut.
(c) Remove the 4 bolts and parking brake lever.

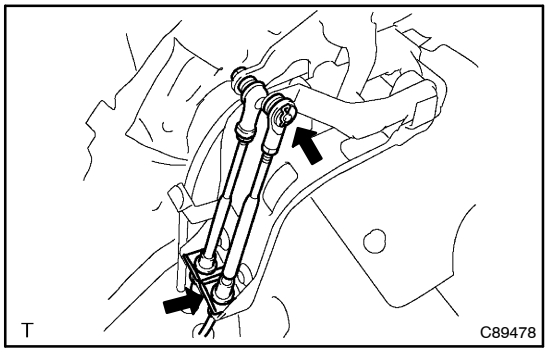
6. REMOVE FLOOR SHIFT SHIFT LEVER KNOB SUB–ASSY (W/O TILT CAB CAB TYPE)
7. REMOVE SHIFTING HOLE COVER SUB–ASSY AND SHIFT LEVER BOOT COVER (W/O TILT CAB CAB TYPE)

(a) Remove the 3 clips and shift lever boot cover.

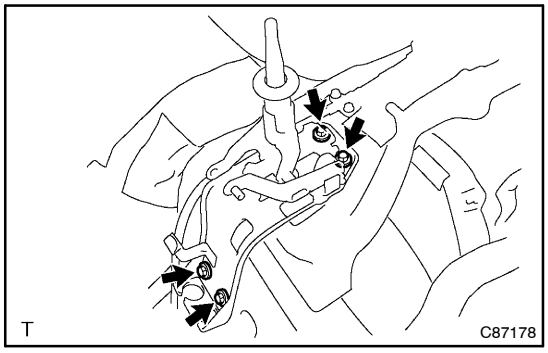


8. REMOVE SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE)

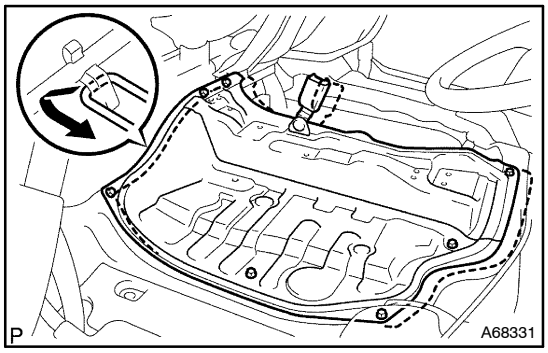
(a) Remove the nut, and disconnect the shift cable from the floor shift.
(b) Remove the clip, and disconnect the shift cable from the floor shift lever retainer.



(c) Remove the clip, and disconnect the select cable from the floor shift.
(d) Remove the clip, and disconnect the select cable from the shift lever retainer.



9. REMOVE FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE)



10. REMOVE ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE)

(a) Remove the floor mat.

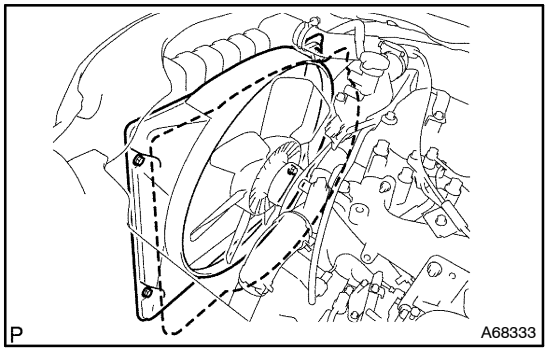
(b) Remove the 7 bolts and engine service hole sub cover.

HINT:

As shown in the illustration, slide and remove the engine service hole sub cover, because there is a hook inside.

11. DISCONNECT RADIATOR HOSE INLET

12. DISCONNECT RADIATOR HOSE OUTLET

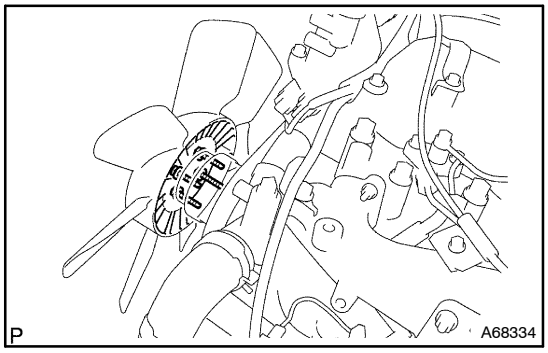


13. REMOVE FAN SHROUD

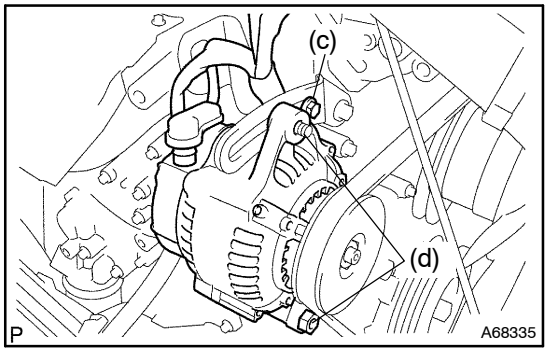
(a) Remove the 4 bolts, and move the fan shroud in the illustrated direction.

NOTICE:

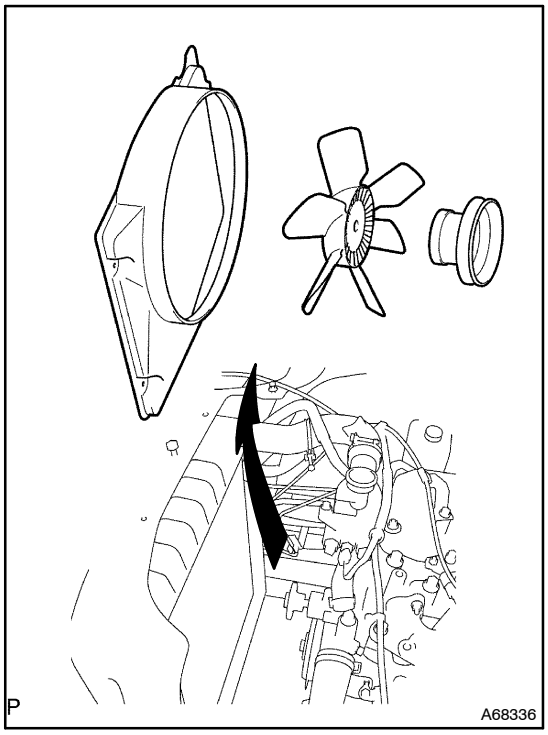
Be careful not to damage the radiator core and the drive belt.



(b) Loosen the fan bolts.



(c) Remove the bolt and wire clamp.
(d) Loosen the 2 bolts and remove the drive belt.



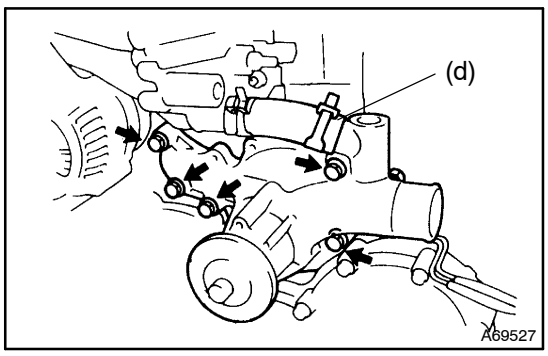
(e) Remove the 4 bolts, fan shroud, fan and pulley.

NOTICE:

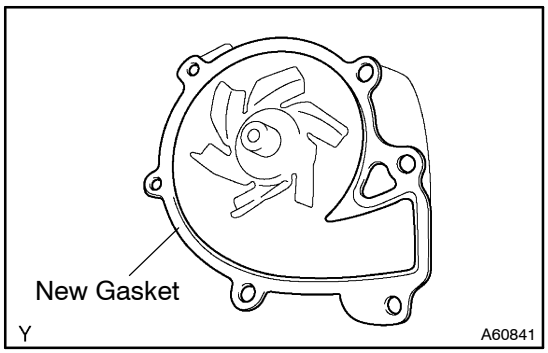
Be careful not to damage the radiator core.

14. REMOVE WATER PUMP ASSY

(a) Remove the 2 bolts.
(b) Disconnect the radiator hose from the water pump, and remove the radiator pipe.

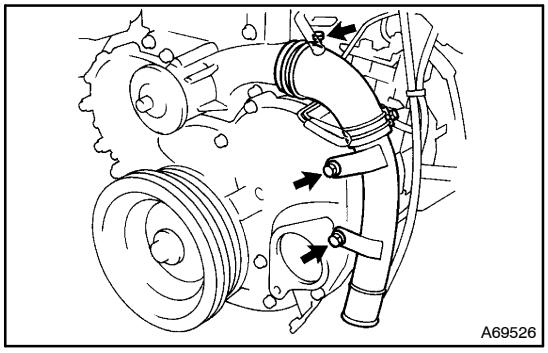


(c) Remove the 5 bolts.
(d) Disconnect the water bypass hose to the water pump, and remove the water pump and gasket.

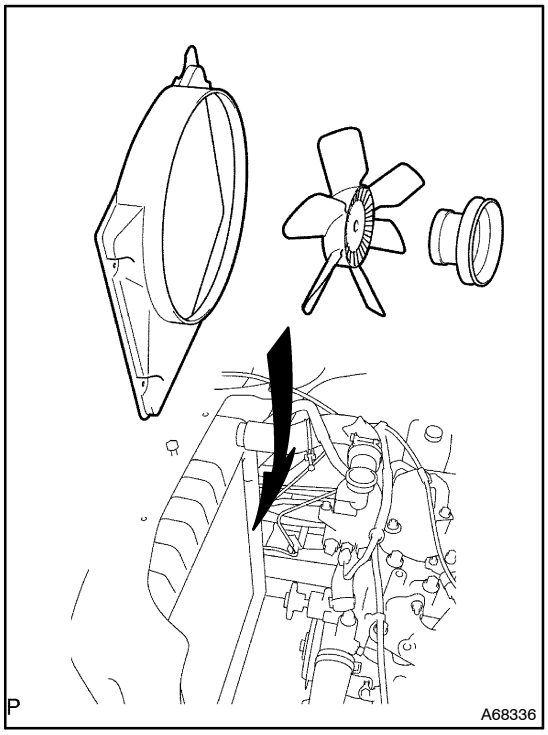


15. INSTALL WATER PUMP ASSY

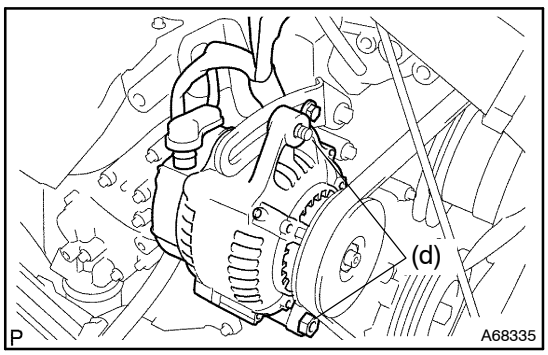
(a) Install a new gasket to the water pump cover.
(b) Place a new gasket in position on the cylinder block.
(c) Connect the water bypass hose to the water pump.
(d) Temporarily install the water pump with the 5 bolts.
(e) Tighten the bolts.
Torque: 25 N·m (255 kgf·cm, 18 ft·lbf)



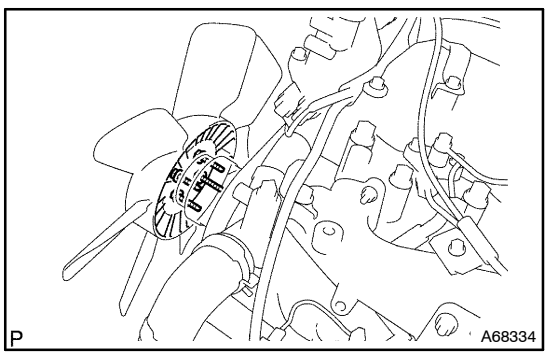
(f) Connect the radiator hose to the water pump.
(g) Install the radiator pipe with the 2 bolts.
Torque: 18.5 N·m (189 kgf·cm, 14 ft·lbf)



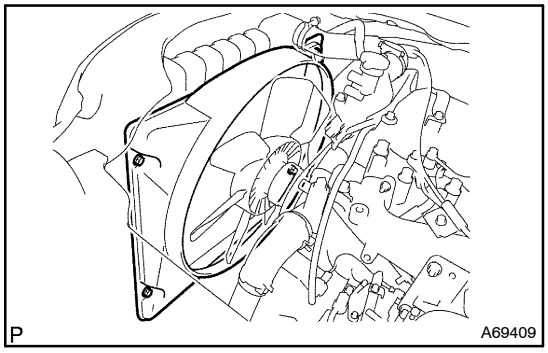
16. INSTALL FAN SHROUD
(a) Install the fan shroud, fan and pulley.
NOTICE:
Be careful not to damage the radiator core.
(b) Temporarily tighten the fan bolts.



(c) Install the drive belt and adjust the belt tension (See page 14–1).
(d) Tighen the 2 bolts.
Torque:
14 mm head 35 N·m (360 kgf·cm, 26 ft·lbf)
17 mm head 37.5 N·m (382 kgf·cm, 28 ft·lbf)

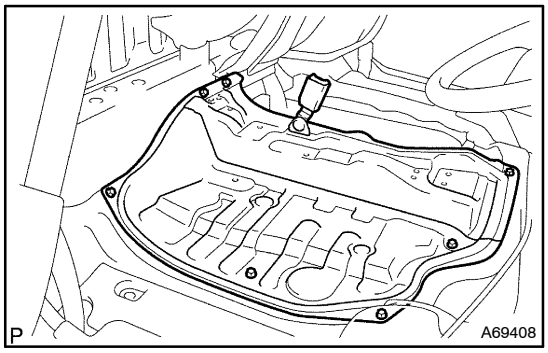


(e) Tighten the 4 bolts.
Torque: 18.5 N·m (189 kgf·cm, 14 ft·lbf)



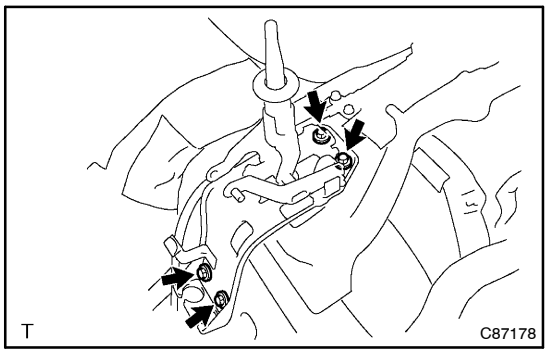
(f) Install the fan shroud with the 4 bolts.
Torque: 11.5 N·m (115 kgf·cm, 8.5 ft·lbf)

NOTICE:
Be careful not to damage the radiator core and the drive belt.



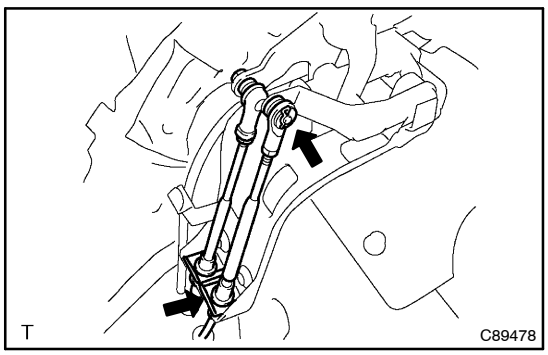
17. INSTALL ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE)

(a) Install the engine service hole sub cover with the 7 bolts.
Torque: 11.5 N·m (115 kgf·cm, 8.5 ft·lbf)
(b) Install the floor mat.



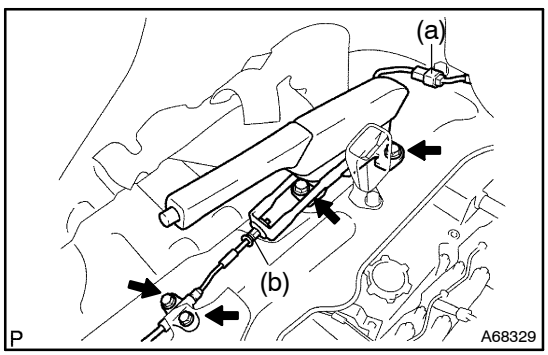
18. INSTALL FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE)

(a) Install the floor shift assy to the floor with the 4 bolts.
Torque: 18 N·m (183 kgf·cm, 13 ft·lbf)



19. INSTALL SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE)

(a) Install the select cable to the shift lever retainer with the clip.
(b) Install the select cable to the floor shift with the clip.
(c) Install the shift cable to the shift lever retainer with the clip.
(d) Temporarily install the shift cable to the floor shift with the nut.
Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)



20. INSTALL PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE)

(a) Install the parking brake lever with the 4 bolts.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)
(b) Connect the parking brake switch connector.

21. INSTALL FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE) (See page 72–2)
22. ADJUST PARKING BRAKE SHOE CLEARANCE (CENTER PARKING BRAKE) (See page 33–11)
23. INSPECT AND ADJUST PARKING BRAKE LEVER TRAVEL (See page 33–11)
24. REFILL ENGINE COOLANT
25. CONNECT BATTERY NEGATIVE TERMINAL
26. CHECK FOR ENGINE COOLANT LEAKS