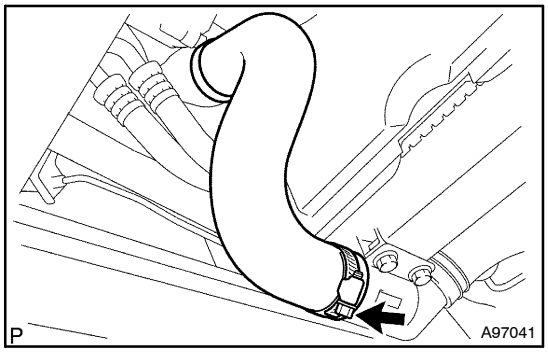
510IO–01

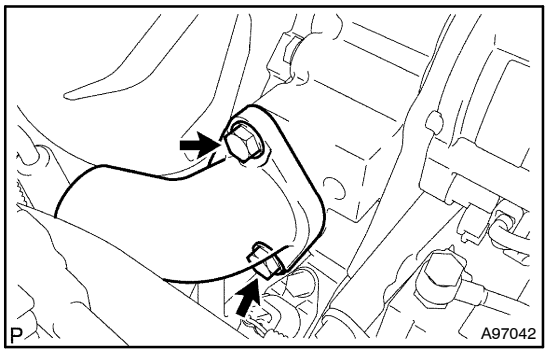
OVERHAUL

1. DRAIN COOLANT



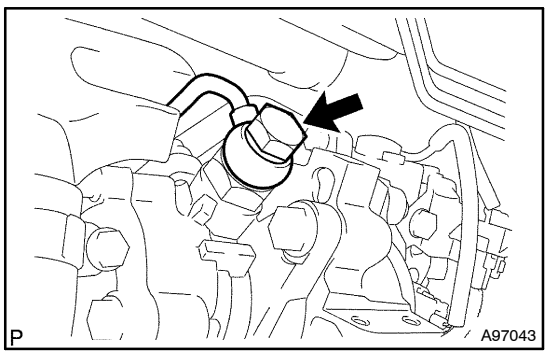
2. DISCONNECT RADIATOR OUTLET HOSE

(a) Loosen the clamp and disconnect the radiator outlet hose from the radiator.



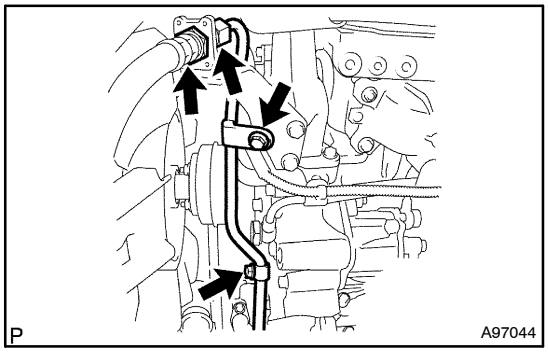
3. REMOVE RADIATOR PIPE

(a) Remove the 2 bolts and radiator pipe.
(b) Remove O–ring from the radiator pipe.

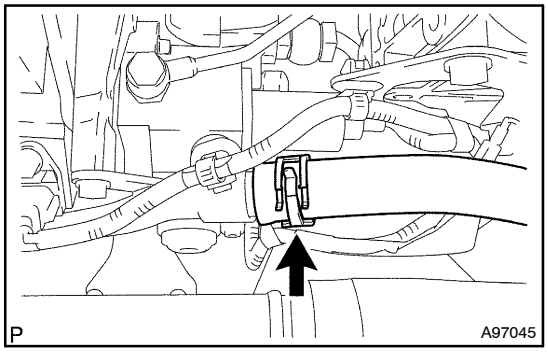


4. REMOVE OIL PUMP TO GEAR BOX TUBE

(a) Remove the union bolt and 2 gaskets, and disconnect the tube from the vane pump.

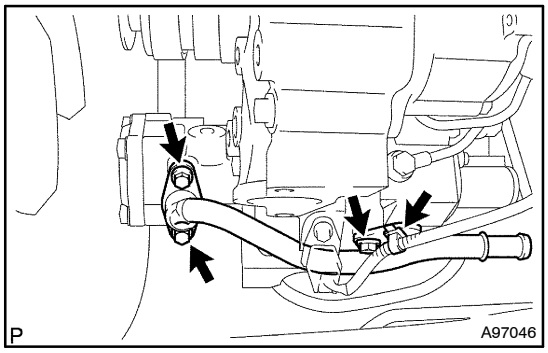


(b) Fix the oil pump to gear box tube and disconnect the pressure feed hose from the oil pump to gear box tube.
(c) Remove 2 bolts and nut, and disconnect the tube from the timing gear cover and bracket.



5. DISCONNECT OIL RESERVOIR TO PUMP HOSE NO.2

(a) Slide the clip and disconnect the oil reservoir to pump hose from the power steering suction port union.

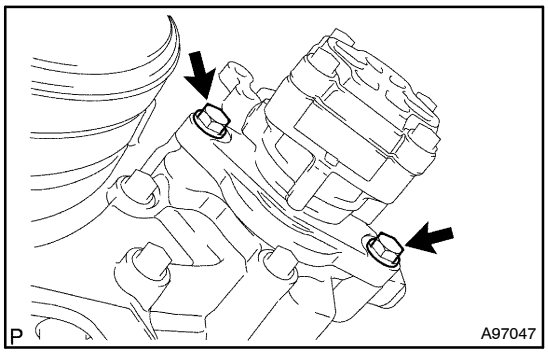


6. REMOVE POWER STEERING SUCTION PORT UNION

(a) Remove the sensor harness clamp from the power steering suction port union.

(b) Remove the 3 bolts and power steering suction port union from the vane pump and setting plate.

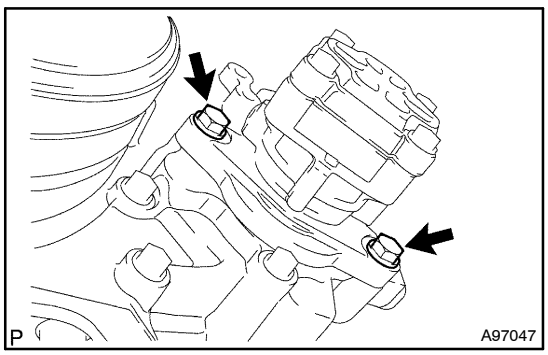
(c) Remove the O–ring from the union.



7. REMOVE VANE PUMP ASSY

(a) Remove the 2 bolts and vane pump.

(b) Remove O–ring from the vane pump.



8. INSTALL VANE PUMP ASSY

(a) Insert the O–ring to the vane pump.

NOTICE:

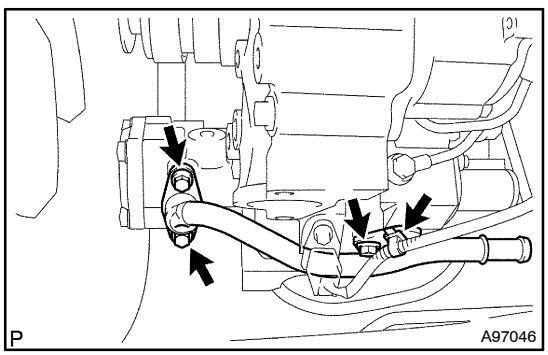
Insert the O–ring securely until it touches the bottom of the groove.

(b) Install the vane pump with the 2 bolts.

Torque: 47 N·m (480 kgf·cm, 35 ft·lbf)

NOTICE:

Should be no clearance between the vane pump and engine case.



9. INSTALL POWER STEERING SUCTION PORT UNION

(a) Apply power steering fluid to a new O–ring for the suction port union.

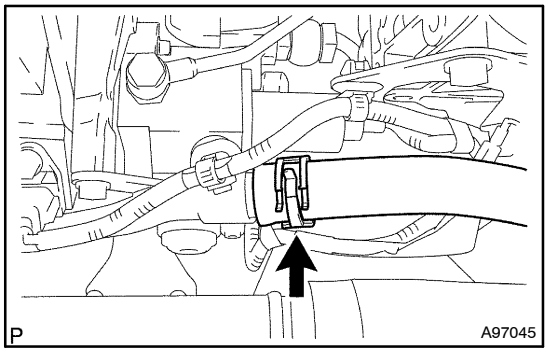
(b) Install the O–ring to the union.

(c) Install the union to the vane pump and setting plate with the 3 bolts.

Torque: 29 N·m (291 kgf·cm, 21 ft·lbf)

(d) Install the sensor clamp to the power steering suction port union.

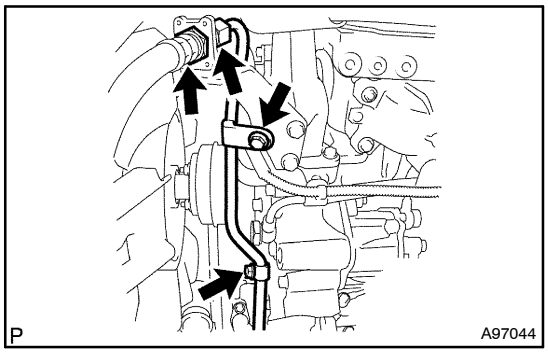
NOTICE:
Do not twist the sensor harness.



10. CONNECT OIL RESERVOIR TO PUMP HOSE NO.2

(a) Connect the oil reservoir to pump hose to the power steering suction port union.

(b) Install the clip.



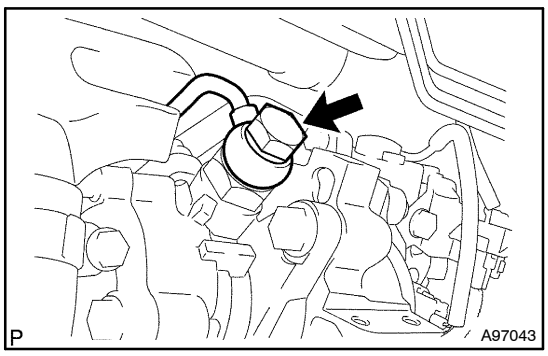
11. INSTALL OIL PUMP TO GEAR BOX TUBE

(a) Install the oil pump to gear box tube to the timing gear case and bracket with the 2 bolts.
Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

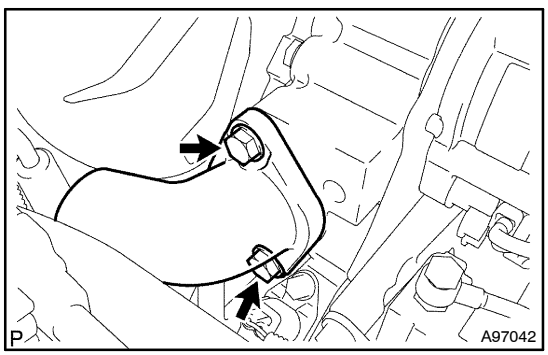
(b) Install the oil pump to gear box tube to the bracket with the nut.
Torque: 44 N·m (449 kgf·cm, 32.5 ft·lbf)

(c) Fix the oil pump to gear box tube.

(d) Using SST, connect the gear box tube to the oil pump to gear box tube.
SST 09922–10010
Torque: 44 N·m (449 kgf·cm, 33 ft·lbf)



(e) Install the oil pump to gear box tube to the vane pump with 2 new gaskets and the union bolt.
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)



12. INSTALL RADIATOR PIPE

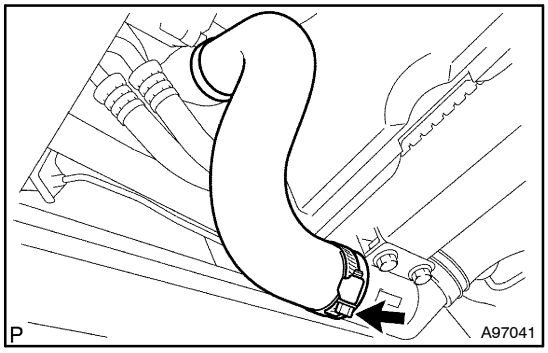
(a) Insert a new O–ring in the groove of the radiator pipe.

NOTICE:
The O–ring has to be inserted into groove securely.

(b) Install the radiator pipe to the timing gear case with the 2 bolts.
Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

NOTICE:

- **The contact surfaces should be free from any dust.**
- **Do not damage the O–ring.**



13. CONNECT RADIATOR OUTLET HOSE

(a) Connect the radiator outlet hose to the radiator.

(b) Tighten the clamp.

14. ADD ENGINE COOLANT (See page 16–3)

15. ADD POWER STEERING FLUID

16. BLEED AIR FROM POWER STEERING FLUID

17. CHECK AMOUNT OF POWER STEERING FLUID

18. CHECK FOR LEAKAGE OF POWER STEERING FLUID