

DISASSEMBLY

NOTICE:

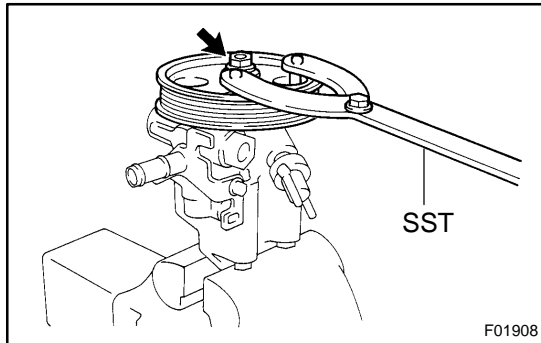
When using a vise, do not overtighten it.

1. MEASURE PS VANE PUMP ROTATION TORQUE

- Check that the pump rotates smoothly without abnormal noise.
- Using a torque wrench, check the pump rotating torque.

Rotating torque:

0.25 N·m (2.5 kgf·cm, 2.2 in.-lbf) or less



2. REMOVE VANE PUMP PULLEY

- Using SST, stop the pulley rotating and loosen the nut. SST 09960-10010 (09962-01000, 09963-01000)
- Remove the nut and vane pump pulley from the vane pump shaft.

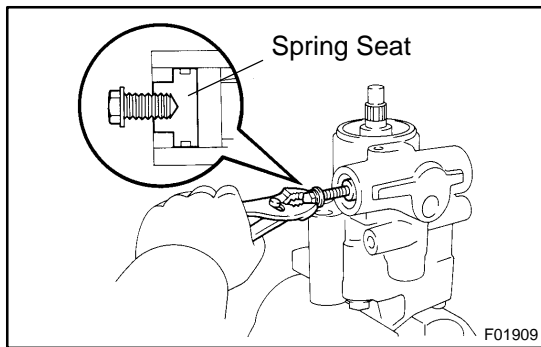
3. REMOVE AIR CONTROL VALVE

4. REMOVE SUCTION PORT UNION

- Remove the 2 bolts and suction port union.
- Remove the O-ring from the suction port union.

5. REMOVE PRESSURE PORT UNION, FLOW CONTROL VALVE AND SPRING

- Remove the pressure port union, flow control valve and spring.
- Remove the O-ring from the pressure port union.



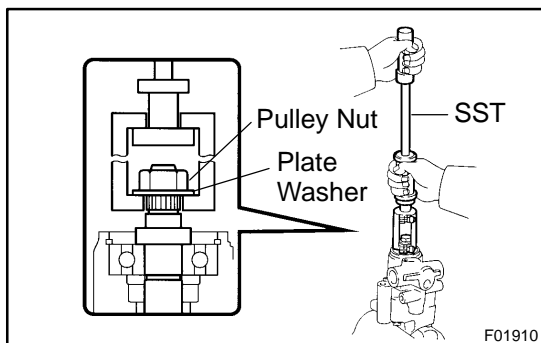
6. REMOVE SPRING SEAT

- Using snap ring pliers, remove the snap ring from the front housing.
- Temporarily install a bolt to the spring seat and pull it out together with the spring seat.

HINT:

Use a bolt with diameter 6 mm (0.24 in.) and pitch 1.0 mm (0.039 in.).

- Remove the O-ring from the spring seat.

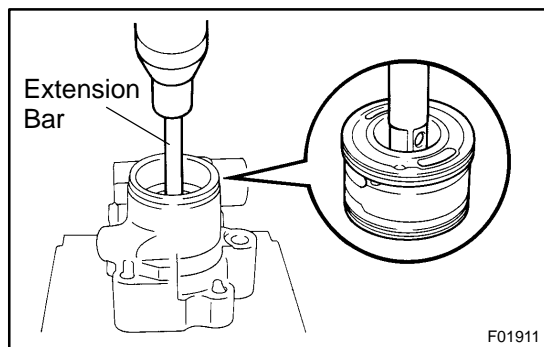


7. REMOVE VANE PUMP SHAFT WITH BEARING

- Using snap ring pliers, remove the snap ring from the front housing.
- Temporarily install a appropriate plate washer and the pulley set nut to the vane pump shaft.
- Using SST, pull out the vane pump shaft with the bearing. SST 09910-00015 (09911-00011, 09912-00010)

8. REMOVE REAR BRACKET

- Remove the 4 bolts and rear bracket.
- Remove the O-ring from the rear bracket.

**9. REMOVE WAVE WASHER****10. REMOVE SIDE FRONT PLATE, CAM RING, VANE PUMP ROTOR, 10 VANE PLATES AND SIDE REAR PLATE**

- (a) Using an extension bar, press out the side front plate, cam ring, vane pump rotor, 10 vane plates and side rear plate as an assembly.
- (b) Remove the O-ring from the side rear plate.
- (c) Remove the cam ring, vane pump rotor and the 10 vane plates.

NOTICE:

Take care not to drop the vane plate.

- (d) Remove the shorter straight pin from the side front plate.
- (e) Remove the 2 O-rings from the side front plate.
- (f) Using pliers, remove the longer straight pin from the front housing.