

DISASSEMBLY

NOTICE:

When using a vise, do not overtighten it.

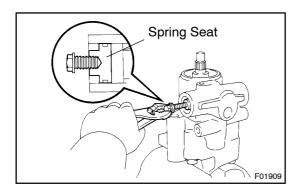
1. MEASURE PS VANE PUMP ROTATION TORQUE

- Check that the pump rotates smoothly without abnormal
- Temporarily install the vane pump pulley set nut. (b)
- Using a torque wrench, check the pump rotating torque. (c) **Rotating torque:**

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

- **REMOVE SUCTION PORT UNION** 2.
- Remove the 2 bolts. (a)
- (b) Remove the O -ring from the union.
- REMOVE PRESSURE PORT UNION, FLOW CONTROL **VALVE AND SPRING**

Remove the O -ring from the union.



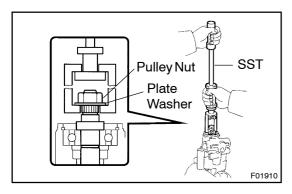
4. **REMOVE SPRING SEAT**

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

HINT:

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

(c) Remove the O -ring from the seat.

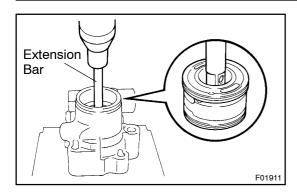


REMOVE VANE PUMP SHAFT WITH BEARING 5.

- Using snap ring pliers, remove the snap ring from the front (a) housing.
- (b) Temporarily install a appropriate plate washer and the pulley set nut to the pump shaft.
- Using SST, pull out the pump shaft with the bearing. (c) SST 099 10-00015 (099 11-00011, 099 12-00010)

REMOVE REAR BRACKET

- (a) Remove the 4 bolts.
- (b) Remove the O -ring from the rear bracket.



- 7. REMOVE WAVE WASHER
- 8. REMOVE SIDE FRONT PLATE, CAM RING, VANE PUMPROTOR, 10 VANE PLATES AND SIDE REAR PLATE
- (a) Using an extension bar and press, press out the side front plate, cam ring, rotor, vane plates and side rear plate as an assembly.
- (b) Remove the O -ring from the side rear plate.
- (c) Remove the cam ring, rotor and 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 2O -rings from the side front plate.
- (f) Using pliers, remove the longer straight pin from the front housing.