



DISASSEMBLY

NOTICE:

When using a vise, do not overtighten it.

1. **MEASURE PS VANE PUMP ROTATING TORQUE**
 - (a) Check that the pump rotates smoothly without abnormal noise.
 - (b) Using a torque wrench, check the pump rotating torque.
Rotating torque:
0.28 N·m (2.8 kgf·cm, 2.4 in.-lbf) or less
2. **REMOVE OIL RESERVOIR**
 - (a) Remove the 3 bolts and oil reservoir.
 - (b) Remove the O-ring from the oil reservoir.
3. **REMOVE PRESSURE PORT UNION, FLOW CONTROL VALVE AND SPRING**
 - (a) Remove the pressure port union, flow control valve and spring.
 - (b) Remove the O-ring from the union.
4. **REMOVE REAR HOUSING**
 - (a) Remove the 2 bolts and rear housing.

HINT:

If the wave washer and side plate are stuck to the rear housing, lightly tap the rear housing with a plastic hammer, and remove the wave washer and side plate.

- (b) Remove the 2 O-rings from the housing.
5. **REMOVE WAVE WASHER**
6. **REMOVE SIDE PLATE**
7. **REMOVE GASKET**
8. **REMOVE CAM RING, VANE PLATES AND VANE PUMP ROTOR**
 - (a) Using a screwdriver, remove the snap ring from the vane pump shaft.
 - (b) Remove the cam ring, 10 vane plates and vane pump rotor.

NOTICE:

Take care not to drop the plate.

9. **REMOVE VANE PUMP SHAFT WITH VANE PUMP PULLEY**
10. **REMOVE STRAIGHT PINS**
Remove the 2 straight pins from the front housing.