

DISASSEMBLY

NOTICE:

When using a vise, do not overtighten it.

1. MEASURE POWER STEERING VANE PUMP ROTATING TORQUE

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

Rotating torque:

0.3 N·m (2.8 kgf·cm, 2.4 in.·lbf) or less

2. REMOVE SUCTION PORT UNION

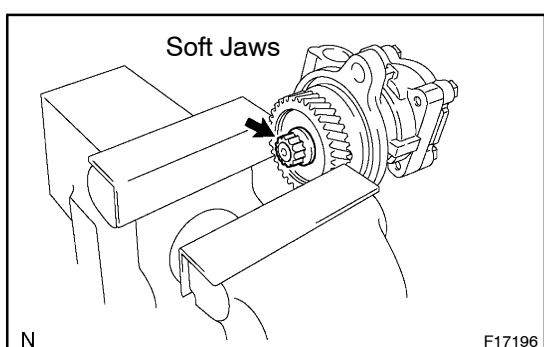
- Remove the bolt.
- Remove the O-ring from the union.

3. REMOVE PRESSURE FEED TUBE UNION

Remove the union bolt and 2 gaskets.

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

Remove the O-ring from the union.



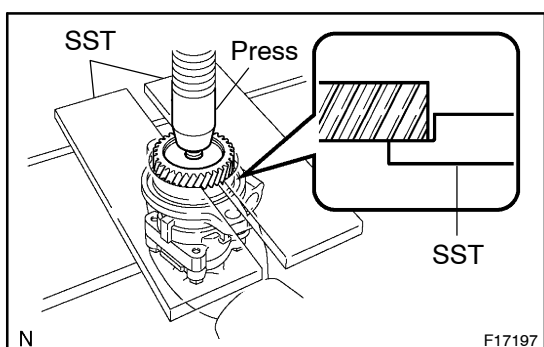
5. REMOVE VANE PUMP DRIVE GEAR

- Using soft jaws on a vise, clamp the gear in the vise.

NOTICE:

Be careful not to damage the gear.

- Remove the gear set nut.



- Using SST, press out the gear.
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NOTICE:

- Be careful not to damage the gear.**
- Support the pump assembly with your hand not to drop it.**

- Remove the woodruff key from the vane pump shaft.

6. REMOVE REAR HOUSING

- Remove the 4 bolts and rear housing.
- Remove the gasket from the rear housing.

7. REMOVE CAM RING, VANE PUMP ROTOR AND VANE PLATES

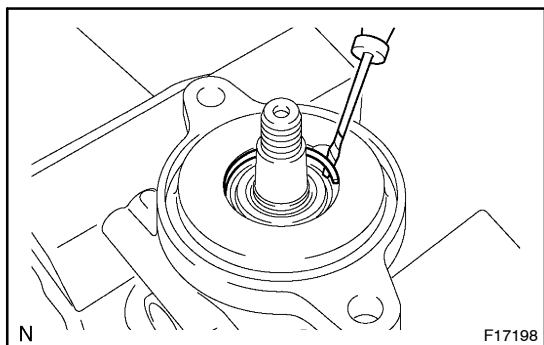
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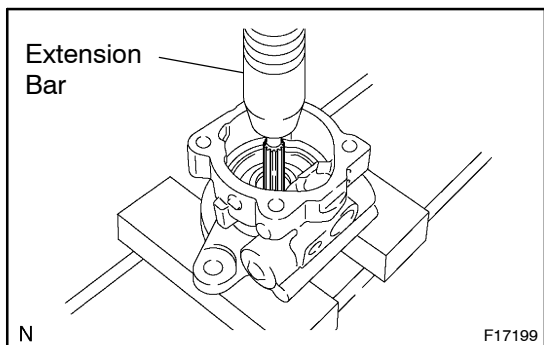
Be careful not to scratch the cam ring, rotor or vane plates.

8. REMOVE SIDE PLATE

- Remove the O-ring from the side plate.
- Remove the O-ring from the front housing.

**9. REMOVE VANE PUMP SHAFT WITH BEARING**

(a) Using screw driver, remove the snap ring.



(b) Using a brass bar and hammer, tap out the shaft with the bearing.