

## 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

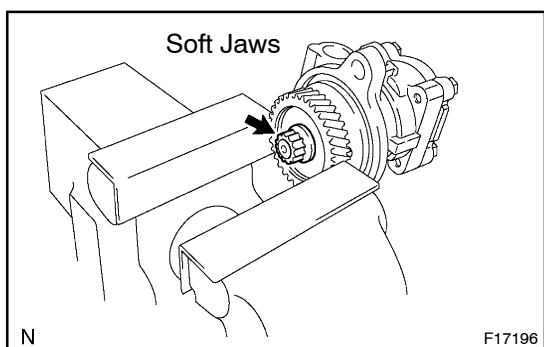
- Remove the bolt.
- Remove the O-ring from the union.

#### 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.



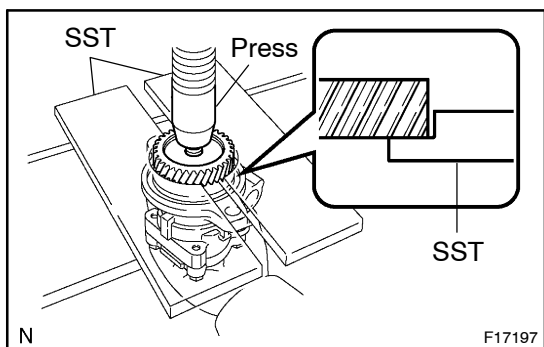
#### 5. REMOVE VANE PUMP DRIVE GEAR

- 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.

SST 09527-10011

### 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.

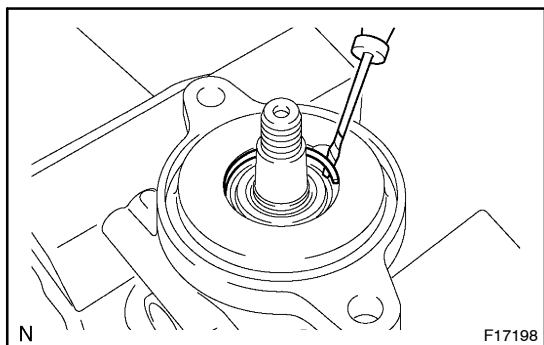
#### 7. REMOVE CAM RING, VANE PUMP ROTOR AND 10 VANE PLATES

### NOTICE:

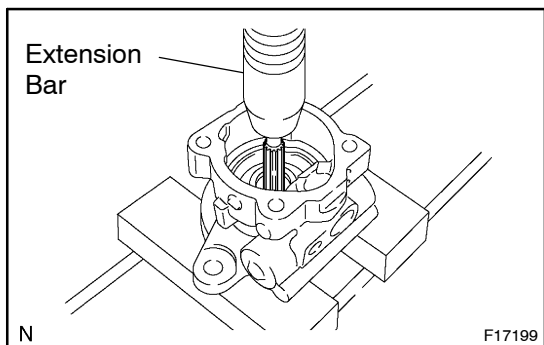
**Be careful not to scratch the cam ring, rotor or vane plates.**

#### 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.