

## DISASSEMBLY

### NOTICE:

When using a vise, do not overtighten it.

### 1. MEASURE POWER STEERING VANE PUMP ROTATING TORQUE

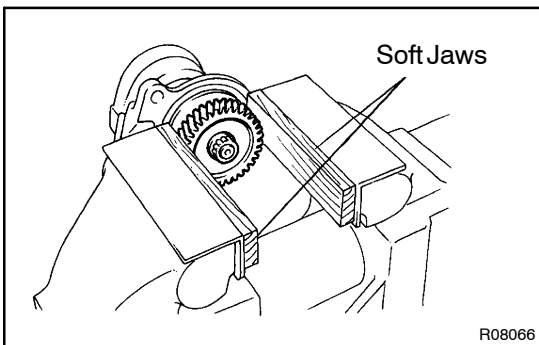
- Check that the pump rotates smoothly without abnormal noise.
- Using a torque wrench, check the pump rotating torque.

#### 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.



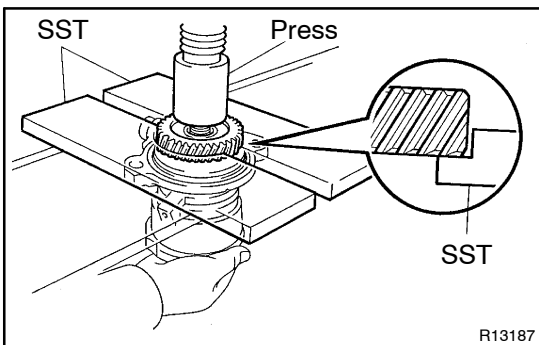
### 3. REMOVE VANE PUMP DRIVE GEAR

- 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.

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

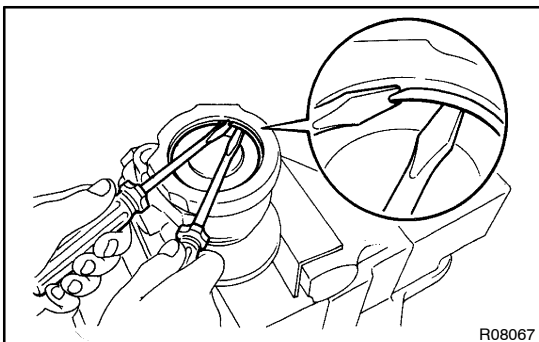
Remove the O-ring from the union.

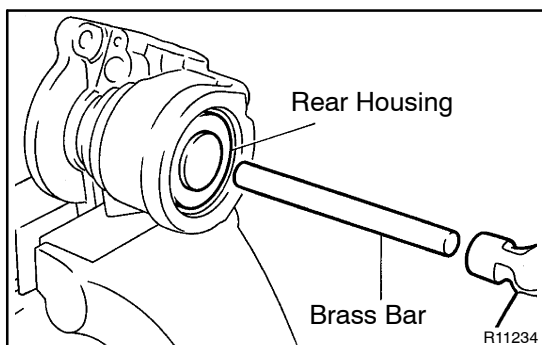
### 5. REMOVE REAR HOUSING AND WAVE WASHER

- Using 2 screwdrivers, remove the snap ring.

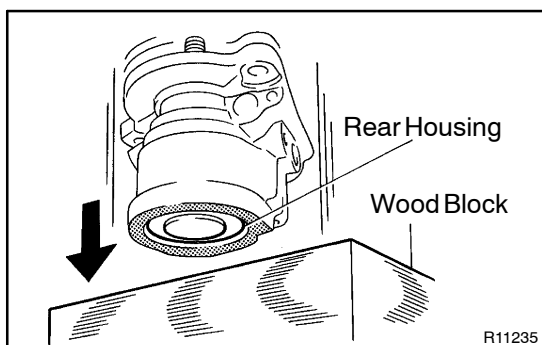
### NOTICE:

**Take care not to damage the housing.**





- (b) Using a brass bar and hammer, tap the housing so that the spring force of the wave washer pushes the housing forward.



- (c) Gently tap the PS pump assembly on a wood block and remove the housing and washer.

- (d) Remove the O-ring from the housing.

#### 6. REMOVE SIDE REAR PLATE

- (a) Gently tap the PS pump assembly on a wood block and remove the plate.

- (b) Remove the O-ring from the plate.

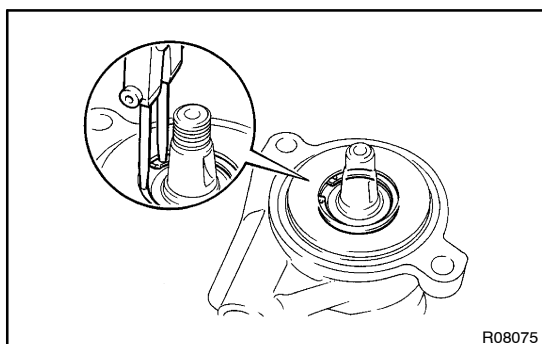
#### 7. REMOVE CAM RING, VANE PUMP ROTOR AND VANE PLATES 10

##### NOTICE:

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

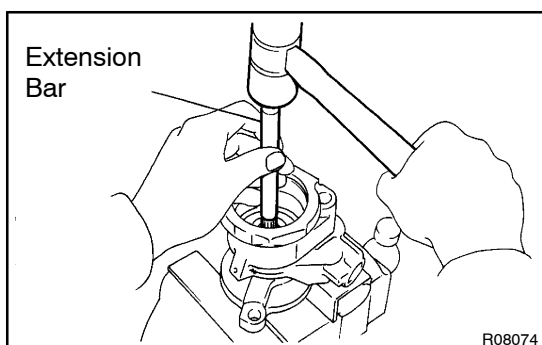
#### 8. REMOVE SHORTER STRAIGHT PIN

Remove the pin from the side front plate.

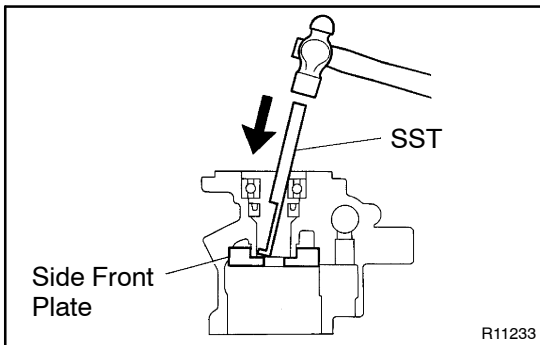


#### 9. REMOVE VANE PUMP SHAFT WITH BEARING

- (a) Using snap ring pliers, remove the snap ring.



- (b) Using an extension bar and hammer, tap out the shaft with the bearing.

**10. REMOVE SIDE FRONT PLATE**

- (a) Using SST, tap out the plate from the front housing.  
SST 0963 1-10030

**NOTICE:**

**Be careful not to damage the front housing.**

- (b) Remove the 2 O-rings from the plate.

**11. REMOVE LONGER STRAIGHT PIN**

Using pliers, remove the pin from the front housing.