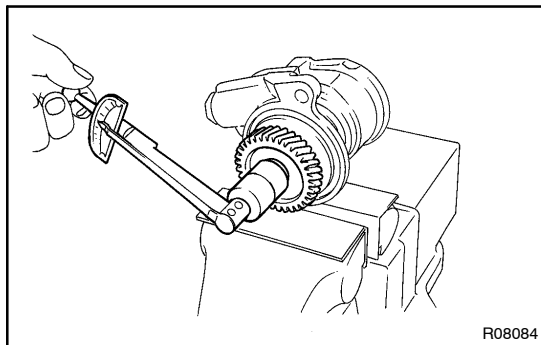




DISASSEMBLY

NOTICE:

When using a vise, do not overtighten it.

1. MEASURE POWER STEERING VANE PUMP ROTATING TORQUE

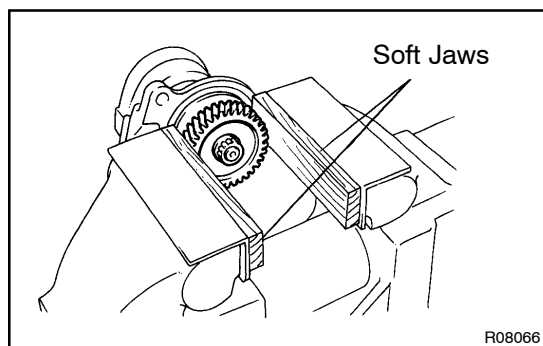
- Check that the pump rotates smoothly without abnormal noise.
- Using a torque wrench, check the pump rotating torque.

Rotation 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.



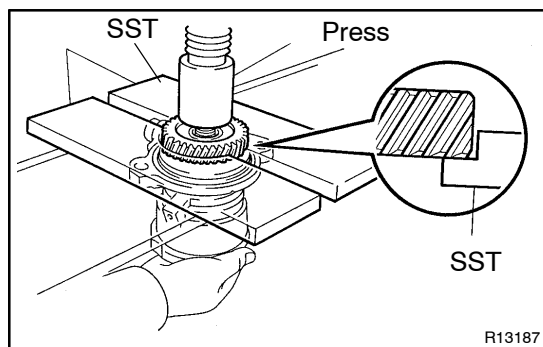
3. REMOVE VANE PUMP DRIVE GEAR

- 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.
- To avoid dropping the PS pump assembly, support the pump assembly with your hand.

- Remove the woodruff key from the vane pump shaft.

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

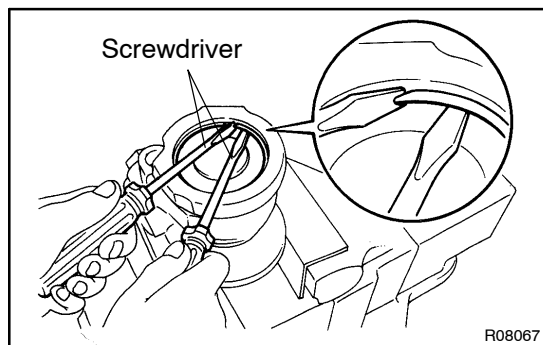
Remove the O-ring from the union.

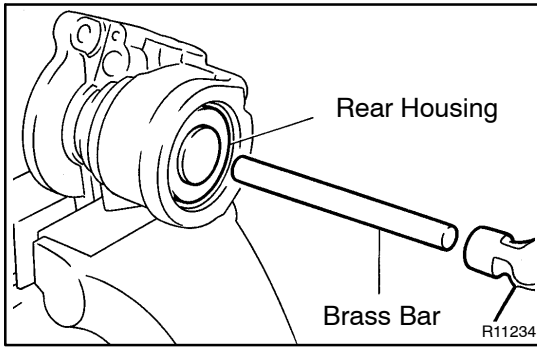
5. REMOVE REAR HOUSING AND WAVE WASHER

- Using 2 screwdrivers, remove the snap ring.

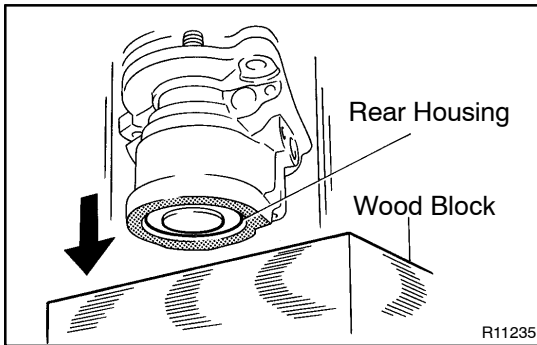
NOTICE:

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.

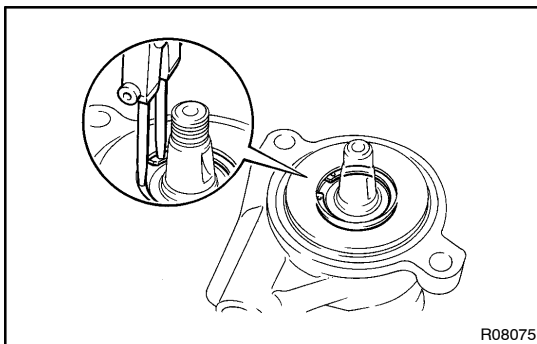
7. REMOVE CAM RING, VANE PUMP ROTOR AND 10 VANE PLATES

NOTICE:

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

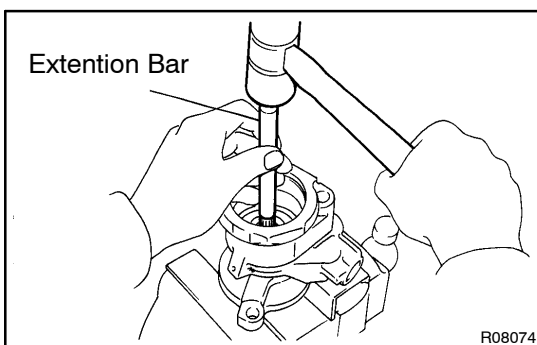
8. REMOVE SHORTER STRAIGHT PIN

Remove the pin from the side front plate.

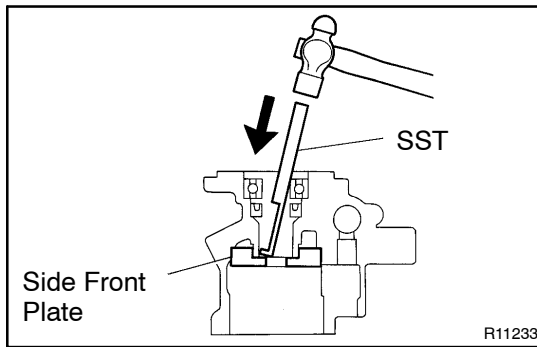


9. REMOVE VANE PUMP SHAFT WITH BEARING

- (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 09631-10030

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.