

DISASSEMBLY

NOTICE:

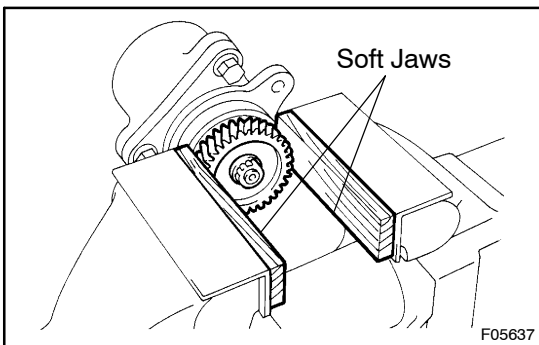
When using a vise, do not overtighten it.

1. MEASURE POWER STEERING 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:

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



2. REMOVE VANE PUMP DRIVE GEAR

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

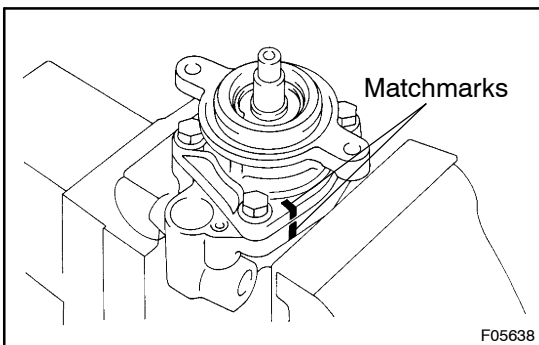
NOTICE:

Be careful not to damage the gear.

- (b) Remove the gear set nut.
- (c) Remove the gear and woodruff key.

3. REMOVE VALVE LOCK SCREW, SPRING AND FLOW CONTROL VALVE

Remove the O-ring from the valve lock screw.



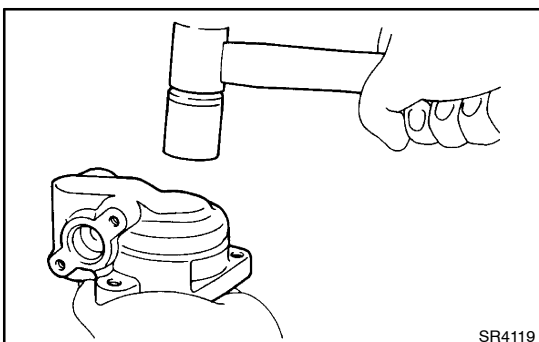
4. REMOVE FRONT HOUSING

- (a) Place matchmarks on the front and rear housing.
- (b) Remove the 3 bolts.
- (c) Remove the O-ring from the front housing.

5. REMOVE VANE PUMP ROTOR AND 10 VANE PLATES

NOTICE:

Take care not to drop the plate.



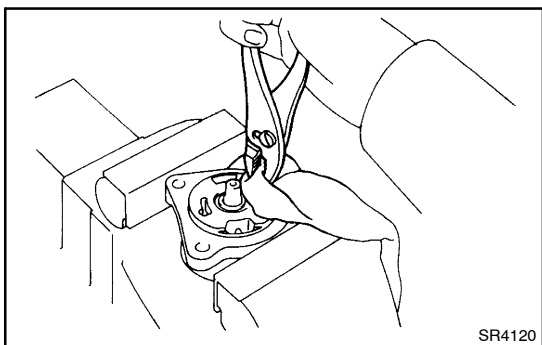
6. REMOVE CAM RING, PRESSURE PLATE AND SPRING

- (a) Using a hammer, tap the bottom end of the rear housing.

NOTICE:

Be careful not to scratch the front side of the pressure plate.

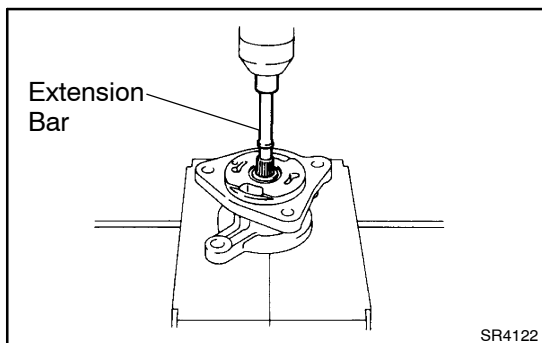
- (b) Remove the O-ring from the pressure plate.

**7. REMOVE STRAIGHT PIN**

Using pliers, remove the straight pin from the front housing.

HINT:

Place a shop rag over the pin to prevent damaging it.

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

- (a) Using snap ring pliers, remove the snap ring.
- (b) Using an extension bar, press out the shaft with the bearing from the front housing.