

DISASSEMBLY

NOTICE:

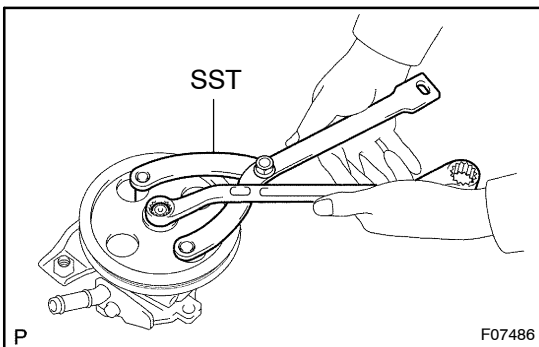
When using a vise, do not overtighten it.

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 :

0.2 N·m (2.5 kgf·cm, 2.2 in·lbf) or less



2. REMOVE VANE PUMP PULLEY

- (a) Using SST, stop the pulley rotating and loosen the nut. SST 09960-10010 (09962-01000, 09963-01000)
- (b) Remove the nut and vane pump pulley from the vane pump shaft.
- (c) Remove the woodruff key from the vane pump shaft.

3. REMOVE FRONT BRACKET

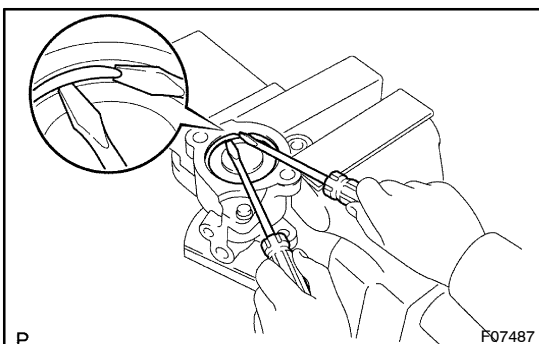
Remove the 2 bolts and front bracket.

4. REMOVE SUCTION PORT UNION

- (a) Remove the bolt and suction port union.
- (b) Remove the O-ring from the suction port union.

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

- (a) Remove the pressure port union, flow control valve and spring.
- (b) Remove the O-ring from the pressure port union.

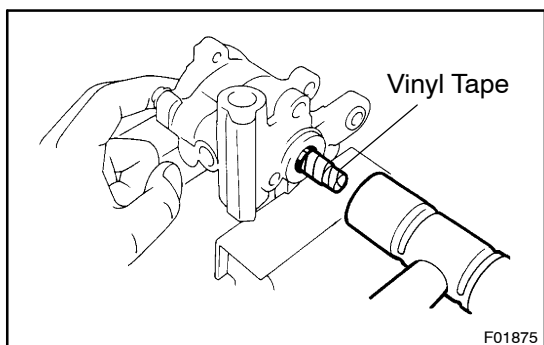


6. REMOVE REAR HOUSING, WAVE WASHER AND SIDE REAR PLATE

- (a) Using 2 screwdrivers, remove the snap ring.

NOTICE:

Take care not to damage the housing.



- (b) To prevent oil seal lip damage, wind vinyl tape on the serrated part of the vane pump shaft.
- (c) Using a plastic hammer, tap the vane pump shaft to remove the rear housing, wave washer and side rear plate.
- (d) Remove the O-ring from the rear housing.
- (e) Remove the O-ring from the side rear plate.

7. REMOVE CAM RING AND 10 VANE PLATES

NOTICE:

Be careful not to drop the plate.

8. REMOVE VANE PUMP SHAFT WITH VANE PUMP ROTOR AND SIDE FRONT PLATE

9. REMOVE VANE PUMP ROTOR AND SIDE FRONT PLATE

- (a) Using a screwdriver, remove the snap ring from the vane pump shaft.
- (b) Remove the vane pump rotor and side front plate.
- (c) Remove the 2 O-rings from the side front plate.

10. REMOVE SHORTER STRAIGHT PIN

Using pliers, remove the shorter straight pin from the side front plate.

HINT:

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

11. REMOVE LONGER STRAIGHT PIN

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

HINT:

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