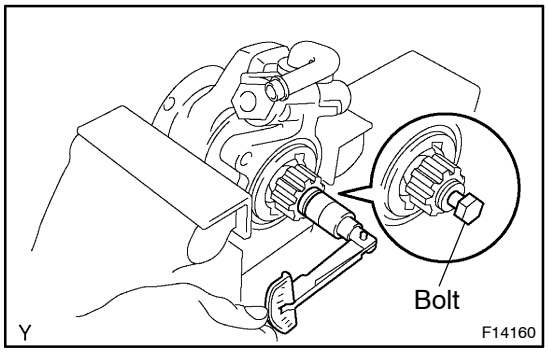
SR1CV–03

DISASSEMBLY

NOTICE:
When using a vise, do not overtighten it.

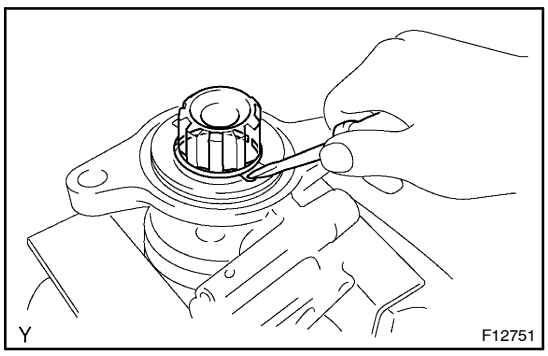


1. MEASURE POWER STEERING VANE PUMP ROTATING TORQUE

(a) Check that the pump rotates smoothly without abnormal noise.
(b) Temporarily install a bolt to the vane pump shaft.
(c) Using a bolt, check the PS vane pump rotating torque.
Bolt part number: 91111–51035
Rotating torque:
0.3 N·m (2.8 kgf·cm, 2.4 in.·lbf) or less

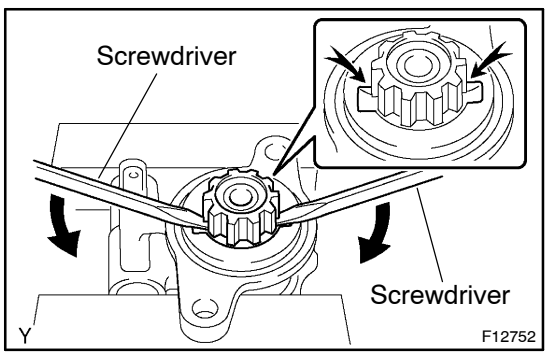
2. REMOVE SUCTION PORT UNION

(a) Remove the 2 bolts and suction port union.
(b) Remove the O–ring from the suction port union.



3. REMOVE VANE PUMP SHAFT AND VANE PUMP DRIVE GEAR WITH BEARING

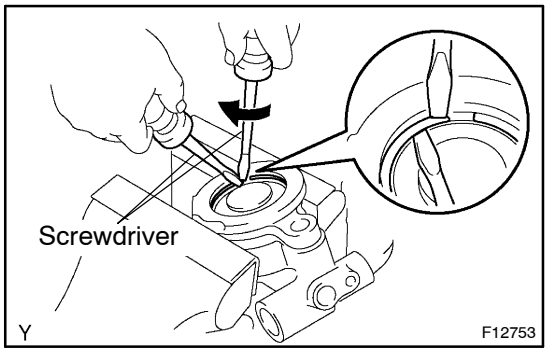
(a) Using a screwdriver, remove the snap ring.



(b) Using 2 screwdrivers, remove the vane pump shaft and the vane pump drive gear with the bearing.

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

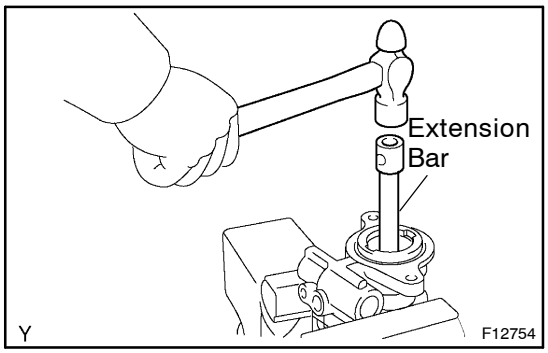
(a) Remove the pressure port union.
(b) Remove the O–ring from the pressure port union.
(c) Remove the flow control valve and spring.



5. 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) Using a hammer and extension bar, tap out the rear housing and wave washer.
(c) Remove the O–ring from the rear housing.
(d) Remove the side rear plate.
(e) Remove the O–ring from the side rear plate.

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

NOTICE:
Be careful not to drop the vane plate.

7. REMOVE SHORTER STRAIGHT PIN

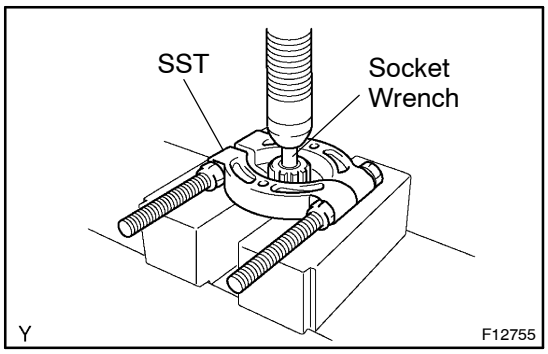
Remove the shorter straight pin from the side front plate.

8. REMOVE SIDE FRONT PLATE

(a) Remove the side front plate.
(b) Remove the 2 O–rings from the side front plate.

9. REMOVE LONGER STRAIGHT PIN

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



10. REMOVE VANE PUMP DRIVE GEAR FROM VANE PUMP SHAFT

(a) Place the socket wrench (12mm) on the vane pump shaft.
(b) Using SST and a press, remove the vane pump shaft.
SST 09950–00020