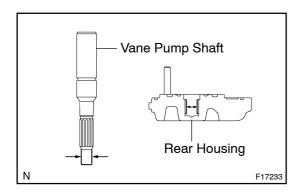
SR1JB-01



INSPECTION

NOTICE:

When using a vise, do not overtighten it.

1. CHECK OIL CLEARANCE BETWEEN VANE PUMP SHAFT AND REAR HOUSING

Using a micrometer and caliper gauge, measure the oil clearance.

Standard clearance:

Front housing and shaft

0.021 - 0.043 mm (0.00079 - 0.00169 in.)

Rear housing and shaft

0.020 - 0.077 mm (0.00079 - 0.00303 in.)

Maximum clearance:

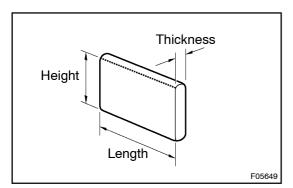
Front housing and shaft

0.070 mm (0.00276 in.)

Rear housing and shaft

0.080 mm (0.00315 in.)

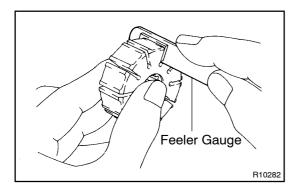
If it is more than the maximum, replace a new vane pump assembly.



2. INSPECT VANE PUMP ROTOR AND VANE PLATES

(a) Using a micrometer, measure the height, thickness and length of the plates.

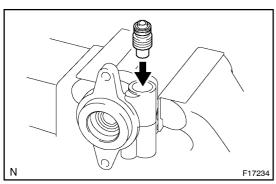
Minimum thickness: 1.405 mm (0.05531 in.)



(b) Using a feeler gauge, measure the clearance between the rotor groove and plate.

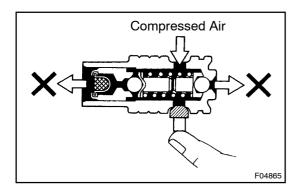
Maximum clearance: 0.03 mm (0.0012 in.)

If it is more than the maximum, replace a new vane pump assembly.



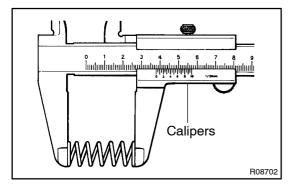
3. INSPECT FLOW CONTROL VALVE

(a) Coat the valve with power steering fluid and check that it falls smoothly into the valve hole by its own weight.



(b) Check the valve for leakage. Close one of the holes and apply compressed air 392 – 490 kPa (4 – 5 kgf/cm², 57 – 71 psi) into the opposite side hole, and confirm that air does not come out from the end hole.

If necessary, replace a new vane pump assembly.

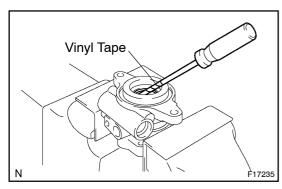


4. INSPECT SPRING

Using a calipers, measure the free length of the spring.

Minimum free length: 31.95 mm (1.2579 in.)

If it is not within the specification, replace the spring.



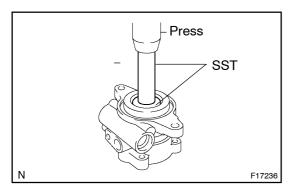
5. IF NECESSARY, REPLACE OIL SEAL

(a) Using a screwdriver with vinyl tape wound around its tip, remove the oil seal from the front housing.

NOTICE:

Be careful not to damage the front housing.

(b) Coat a new oil seal lip with power steering fluid.



(c) Using SST, press in the oil seal as shown in the illustration.

SST 09950-60010 (09951-00320), 09950-70010 (09951-07100)

NOTICE:

Make sure to install the oil seal facing the correct direction.