

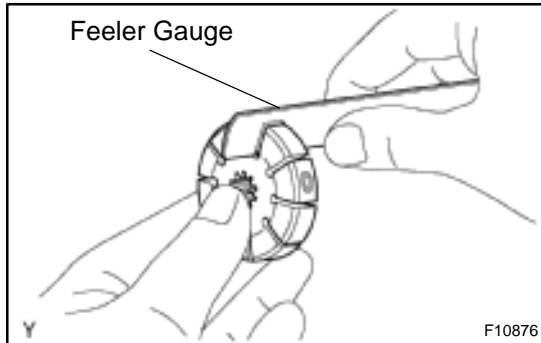
INSPECTION

1. **INSPECT VANE PUMP ROTOR AND VANE PLATES**
 - (a) Using a micrometer, measure the height, thickness and length of the 10 vane plates.

Minimum height: 5.4 mm (0.213 in.)

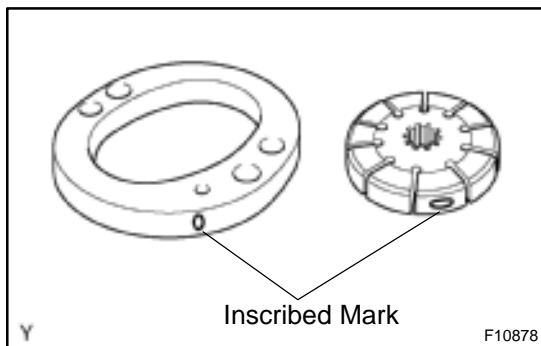
Minimum thickness: 0.882 mm (0.0347 in.)

Minimum length: 4.596 mm (0.1809 in.)



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

Maximum clearance: 0.023 mm (0.0009 in.)



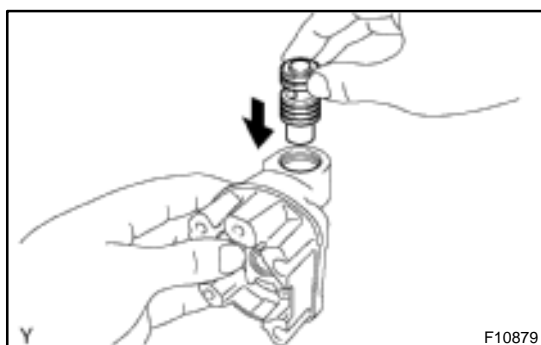
If it is more than the maximum, replace the vane plate and/or vane pump rotor with the one having the same mark stamped on the cam ring.

Inscribed mark: 0, 1, 2, 3, or 4

HINT:

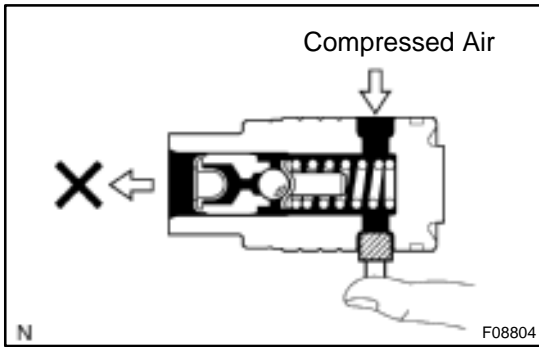
There are 5 vane plate heights corresponding to the following vane pump rotor and cam ring marks:

Vane pump rotor and cam ring mark	Vane plate part number	Vane plate length mm (in.)
0	44345-17060	4.604-4.606 (0.18126-0.18134)
1	44345-17070	4.602-4.604 (0.18118-0.18126)
2	44345-17080	4.600-4.602 (0.18110-0.18118)
3	44345-17090	4.598-4.600 (0.18102-0.18110)
4	44345-17100	4.596-4.598 (0.18094-0.18102)

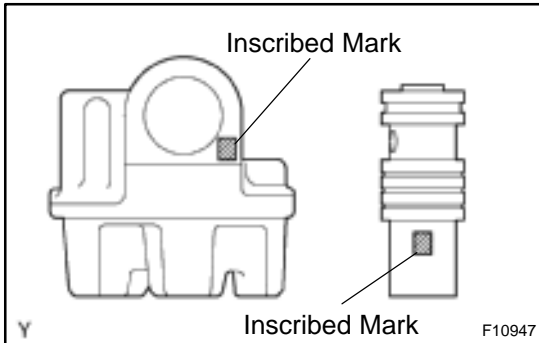


2. **INSPECT FLOW CONTROL VALVE**

- (a) Coat the flow control valve with power steering fluid and check that it falls smoothly into the valve hole of the rear housing by its own weight.

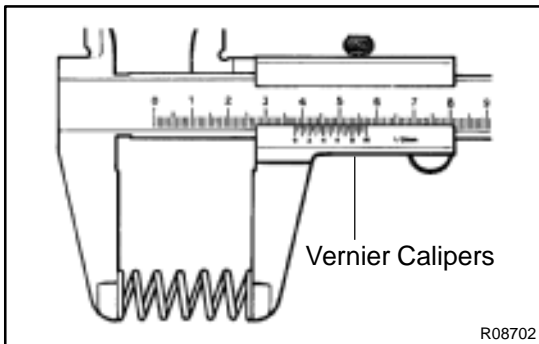


(b) Check the flow control valve for leakage. Close one of the holes and apply compressed air of 392 – 490 kPa (4 – 5 kgf/cm², 57 – 71 psi) into the opposite side hole, and confirm that air does not come out from the end hole.



If necessary, replace the flow control valve with the one having the same letter as inscribed on the rear housing.

Inscribed mark: A, B, C, D, E or F



3. INSPECT SPRING

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

Minimum free length: 28.7 mm (1.130 in.)

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