

INSPECTION

NOTICE:

When using a vise, do not overtighten it.

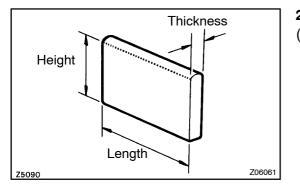
1. MEASURE OIL CLEARANCE BETWEEN VANE PUMP SHAFT AND BUSHING

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

Standard clearance:

0.030 – 0.045 mm (0.0012 – 0.0018 in.) Maximum clearance: 0.07 mm (0.0028 in.)

If it is more than the maximum, replace the front housing and vane pump shaft.



Feeler Gauge

R10282

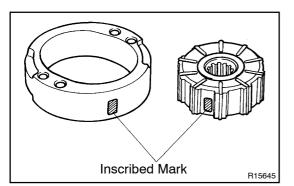
2. INSPECT VANE PUMP ROTOR AND VANE PLATES

(a) Using a micrometer, measure the height, thickness and length of the 10 vane plates.
Minimum height: 8.1 mm (0.319 in.)
Minimum thickness: 1.797 mm (0.0707 in.)
Minimum length: 14.988 mm (0.5901 in.)

(b) Using a feeler gauge, measure the clearance between the vane pump rotor groove and vane plate. **Maximum clearance: 0.030 mm (0.0012 in.)**



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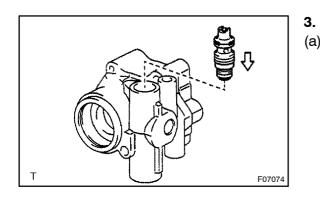


If it is more than the maximum, replace the vane plate and/or vane pump rotor with the one having the same mark stamped on the cam ring.

Inscribed mark: 1, 2, 3, 4 or None HINT:

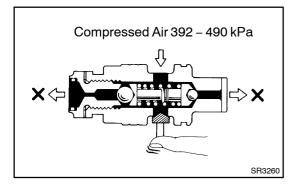
There are 5 vane plate lengths corresponding to the following vane pump rotor and cam ring marks:

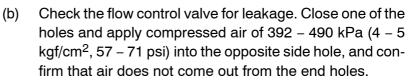
Vane pump rotor and cam ring mark	Vane plate part number	Vane plate length mm (in.)
None	44345–12010	14.996 – 14.998 (0.59039 – 0.59047)
1	44345–12020	14.994 – 14.996 (0.59032 – 0.59039)
2	44345–12030	14.992 – 14.994 (0.59024 – 0.59032)
3	44345–12040	14.990 – 14.992 (0.59016 – 0.59024)
4	44345–12050	14.988 – 14.990 (0.59008 – 0.59016)

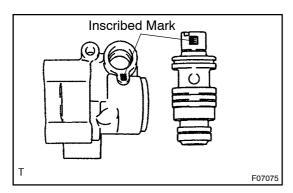


INSPECT FLOW CONTROL VALVE

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







If necessary, replace the flow control valve with the one having the same letter as inscribed on the front housing. Inscribed mark: A, B, C, D, E or F

L۱) Į dna Vernier Calipers MMMM

R08702

INSPECT SPRING 4.

Using vernier calipers, measure the free length of the spring. Minimum free length: 36.0 mm (1.417 in.)

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