# VALVE CLEARANCE INSPECTION

EM0TH-01

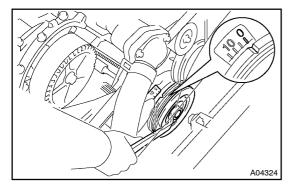
HINT:

Inspect and adjust the valve clearance when the engine is cold.

- 1. DRAIN ENGINE COOLANT
- 2. REMOVE BATTERY CLAMP COVER
- 3. REMOVE NO.3 TIMING BELT COVERS (See page EM-16)
- 4. REMOVE IGNITION COILS (See page IG-7)
- 5. REMOVE RH CYLINDER HEAD COVER

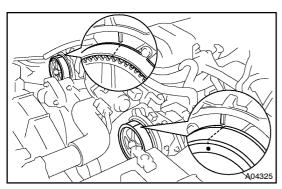
Remove the 9 bolts, 9 seal washers and cylinder head cover.

- 6. REMOVE LH CYLINDER HEAD COVER
- (a) Remove the oil dipstick for the transmission.
- (b) Disconnect the PCV hose.
- (c) Disconnect the engine wire clamp from the wire bracket on the cylinder head cover.
- (d) Remove the 9 bolts, 9 seal washers and cylinder head cover.



## 7. SET NO. 1 CYLINDER TO TDC/COMPRESSION

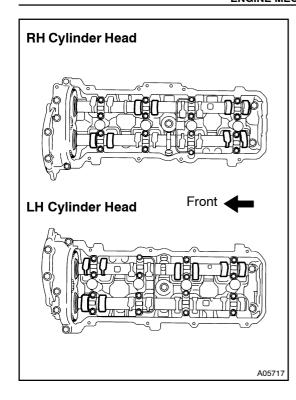
(a) Turn the crankshaft pulley, and align its groove with timing mark "0" of the No. 1 timing belt cover.



(b) Check that the timing marks of the camshaft timing pulleys and timing belt rear plates are aligned.

If not, turn the crankshaft 1 revolution (360  $^{\circ}$ ) and align the mark as above.

2UZ-FE ENGINE (RM630E)

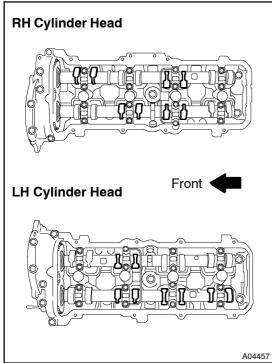


#### 8. INSPECT VALVE CLEARANCE

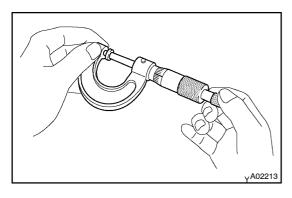
- (a) Check only the valves indicated.
  - Using a feeler gauge, measure the clearance between the valve lifter and camshaft.
  - Record the out-of-specification valve clearance measurements. They will be used later to determine the required replacement adjusting shim.

Valve clearance (Cold):

Intake: 0. 15 - 0.25 mm (0.006 - 0.010 in.) Exhaust: 0.25 - 0.35 mm (0.0 10 - 0.014 in.)



- (b) Turn the crankshaft  $1 \text{ revolution } (360 \degree) \text{ and align the mark}$  as above. (See procedure in step 10)
- (c) Check only the valves indicated as shown. Measure the valve clearance. (See procedure in step (a))
- 9. ADJUST VALVE CLEARANCE
- (a) Remove the timing belt. (See page EM-16)
- (b) Remove the camshafts. (See page EM-40)
- (c) Remove the valve lifter and adjusting shim.



- (d) Determine the replacement adjusting shim size according to these Formula or Charts:
  - Using a micrometer, measure the thickness of the removed shim.
  - Calculate the thickness of a new shim so that the valve clearance comes within the specified value.

T ...... Thickness of removed shim

A ..... Measured valve clearance

N ...... Thickness of new shim

#### Intake:

N = T + (A - 0.20 mm (0.008 in.))

### **Exhaust:**

N = T + (A - 0.30 mm (0.012 in.))

Select a new shim with a thickness as close as possible to the calculated value.

## HINT:

Shims are available in 41 increments of 0.020 mm (0.0008 in.), from 2.00 mm (0.0787 in.) to 2.80 mm (0.1102 in.).

- (e) Place a new adjusting shim on the valve.
- (f) Place the valve lifter.
- (g) Reinstall the camshafts. (See page EM-53)
- (h) Reinstall the timing belt.(See page EM-23)
- (i) Recheck the valve clearance.
- 10. REINSTALL CYLINDER HEAD COVERS
- 11. REINSTALL IGNITION COILS
- 12. REINSTALL NO.3 TIMING BELT COVERS

(See page EM-23)

- 13. REFILL WITH ENGINE COOLANT
- 14. START ENGINE AND CHECK FOR LEAKS
- 15. RECHECK ENGINE COOLANT LEVEL
- 16. REINSTALL BATTERY CLAMP COVER

2.760 (0.1087) 2.780 (0.1094)

76 78 78

2.500 (0.0984)

50 48

8 8 8

2.220 (0.0874) 2.240 (0.0882) 2.260 (0.0890)

and the measured clearance is 0.440 mm (0.0173 in.). Replace the 2.300 mm (0.0906 in.) shim with a No. 54 shim.

The 2.300 mm (0.0906 in.) shim is installed,

24 26

2.800 (0.1102)

80

2.520 (0.0992) 2.540 (0.1000)

52 54

2.720 (0.1071) 2.740 (0.1079)

72

2.440 (0.0961)

4

2.160 (0.0850)

16

2.180 (0.0858) 2.200 (0.0866)

(Exhaust)
Chart
Selection
Shim
Adjusting

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