VALVE CLEARANCE INSPECTION

EM0TH-01

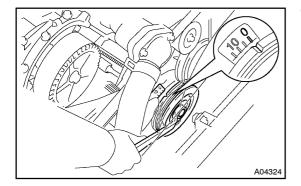
HINT:

Inspect@nd@djust@her@learance@hen@her@her@lis@cold.

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

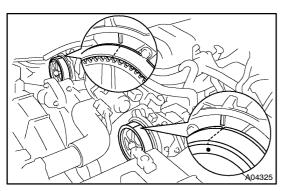
Remove the 9 bolts, 9 seal washers and cylinder head cover.

- 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

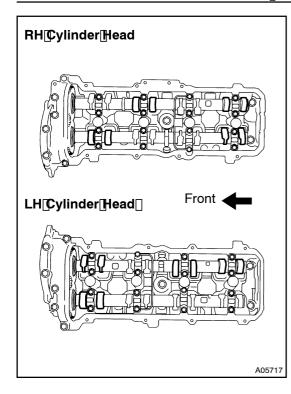
(a) Turn the crankshaft pulley, and align its groove with timing mark "0" of the No.1 timing belt cover.



(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)

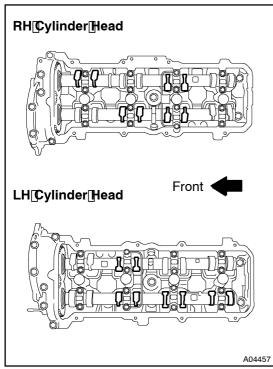


8. | INSPECT VALVE CLEARANCE

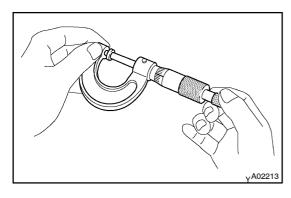
- (a) Check only the valves indicated.
 - Using[a[feeler[gauge,[measure[the[clearance[between[the[valve]]ifter[and[camshaft.
 - Record out-of-specification valve clearance measurements. They will be used later to determine the required replacement adjusting shim.

Valve clearance (Cold):

Intake: 0.15 - 0.25 mm (0.006 - 0.010 in.) Exhaust: 0.25 - 0.35 mm (0.010 - 0.014 in.)



- (b) Turn the crankshaft 1 revolution (360°) 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 ►M-16)
 (b) Remove the camshafts.
 - (SeepageEM-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 = [] + [A - 0.20]mm[0.008]n.)

Exhaust:

N = [] + [A - 0.30]mm[0.012]n.)

• Selectathewshimwithathicknessaschoseaspossible other calculated value.

HINT:

Shims a re a vailable a 1 a 1 a 1 a 20 a mm a 0.0008 a 1.), from a 2.00 a mm a 0.0787 a 1.) a 0.2 a 0.11 a 2 a 1.).

- (e) Place a new adjusting shim on the valve.
- (f) Place the valve lifter.
- (g) Reinstall the camshafts. (See page M-53)
- (h) Reinstall the timing belt. (See page ►M-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
election
Shim S
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