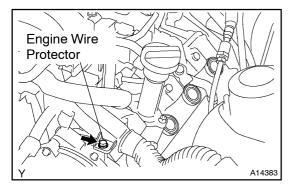
# VALVE CLEARANCE INSPECTION

EM0DS-02

HINT:

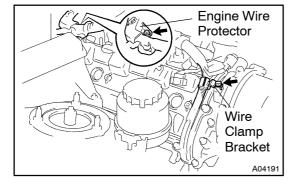
Inspect and adjust the valve clearance when the engine is cold.

- 1. REMOVE V-BANK COVER
- 2. REMOVE INTAKE AIR CONNECTOR PIPE
- 3. REMOVE IGNITION COILS



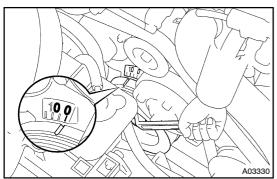
### 4. REMOVE LH CYLINDER HEAD COVER

- (a) Remove the bolt, and pull out the oil dipstick and guide for the engine.
- (b) Remove the bolt, and pull out the oil dipstick and guide for the transmission.
- (c) Disconnect the PCV valve on the PCV hose from the cylinder head cover.
- (d) Remove the bolt, and disconnect the engine wire protector from the camshaft bearing cap.
- (e) Remove the 9 bolts, 9 seal washers and cylinder head cover.



# 5. REMOVE RH CYLINDER HEAD COVER

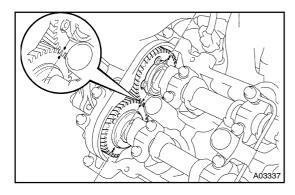
- (a) Remove the bolt, and disconnect the wire clamp bracket from the camshaft bearing cap.
- (b) Remove the bolt, and disconnect the engine wire protector from the cylinder head.
- (c) Remove the 9 bolts, 9 seal washers and cylinder head cover.



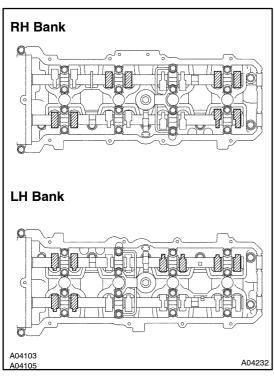
6. SET NO.1 CYLINDER TO TDC/COMPRESSION

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

LEXUS GS300/GS430 SUP (RM786E)



(b) Check that the timing marks (1 dot mark) of the intake and exhaust camshaft gears on the LH bank are aligned.
If not, turn the crankshaft 1 revolution (360°) and align the mark as above.

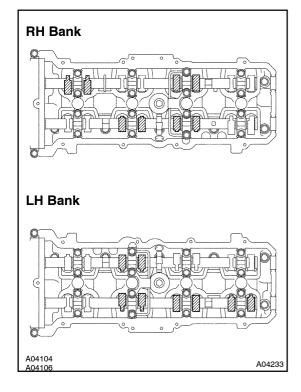


# 7. INSPECT VALVE CLEARANCE

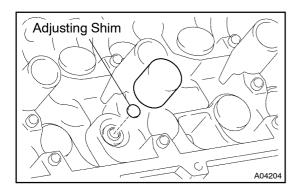
- (a) Check only the valves indicated.
  - (1) Using a feeler gauge, measure the clearance between the valve lifter and camshaft.
  - (2) Record the out-of-specification valve clearance measurements. They will be used later to determine the required replacement adjusting shim.

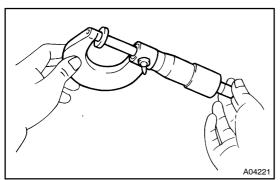
# Valve clearance (Cold):

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



- (b) Turn the crankshaft 1 revolution (360°) and align the mark as above. (See procedure in step 9)
- (c) Check only the valves indicated as shown. Measure the valve clearance. (See procedure in step (a))





#### 8. ADJUST VALVE CLEARANCE

- (a) Disconnect the timing belt from the camshaft timing pulleys. [See page EM-15]
- (b) Remove the camshafts. See page M-36)
- (c) Remove the valve lifter and adjusting shim.

# **NOTICE:**

Be careful not to drop the adjusting shim into the lifter hole when removing the valve lifter.

- (d) Determine the replacement adjusting shim size according to these Formula or Charts:
  - (1) Using a micrometer, measure the thickness of the removed shim.
  - (2) 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.))

(3) 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) Reinstall hew adjusting him of the spring retainer.
- (f) Reinstall the valve lifter.
- (g) Reinstall The camshafts. (See page EM-60)
- (h) Reconnect the timing belt to the camshaft timing pulleys. (Seepage FM-22)
- (i) Recheck the valve clearance.
- 9. REINSTALL CYLINDER HEAD COVERS
- 10. REINSTALL GNITION COILS (See page G-5)
- 11. REINSTALL INTAKE AIR CONNECTOR PIPE
- 12. REINSTALL V-BANK COVER

2.760 (0.1087) 2.780 (0.1094)

2.500 (0.0984)

46 50

2.220 (0.0874) 2.240 (0.0882)

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,

2.520 (0.0992) 2.540 (0.1000)

52

54

2.260 (0.0890)

2.800 (0.1102)

2.720 (0.1071) 2.740 (0.1079)

72 74 9/ 8/ 80

2.440 (0.0961) 2.460 (0.0969)

2.160 (0.0850) 2.180 (0.0858) 2.200 (0.0866)

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(Exhaust)
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