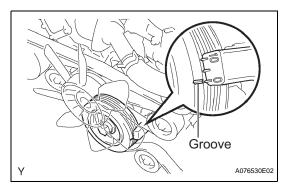
## **VALVE CLEARANCE**

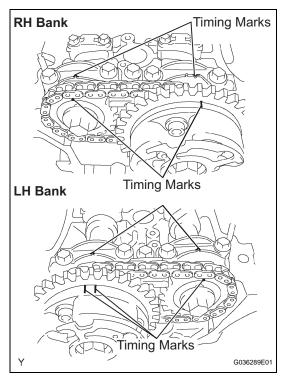
## **ADJUSTMENT**

- 1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
- 2. DRAIN ENGINE COOLANT (See page CO-3)
- 3. REMOVE V-BANK COVER (See page ES-414)
- 4. REMOVE AIR CLEANER ASSEMBLY (See page ES-415)
- 5. REMOVE INTAKE AIR SURGE TANK (See page EM57)
- 6. REMOVE IGNITION COIL ASSEMBLY (See page IG-7)
- 7. REMOVE CYLINDER HEAD COVER SUB-ASSEMBLY (See page EM-59)
- 8. REMOVE CYLINDER HEAD COVER SUB-ASSEMBLY LH (See page EM-59)



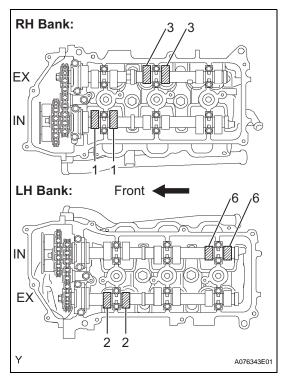
(a) Turn the crankshaft pulley until its groove and the timing mark "0" of the timing chain cover are aligned.





(b) Check that the timing marks of the camshaft timing gears are aligned with the timing marks of the bearing cap as shown in the illustration. If not, turn the crankshaft 1 complete revolution (360°) and align the timing marks above.





## 10. INSPECT VALVE CLEARANCE

- (a) Check the valves indicated in the illustration.
  - Using a feeler gauge, measure the clearance between the valve lifter and camshaft.
     Valve clearance (Cold):

Intake 0.15 to 0.25 mm (0.006 to 0.010 in.) Exhaust 0.29 to 0.39 mm (0.011 to 0.015 in.)

(2) Record any out-of-specification valve clearance measurements. They will be used later to determine the required replacement valve lifter.



- RH Bank:

  EX

  IN

  LH Bank:

  Front

  2

  2

  4

  4

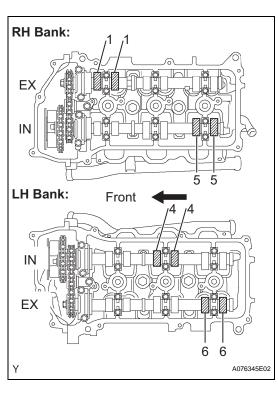
  4

  4

  A076344E01
- (b) Turn the crankshaft 240° clockwise, and check the valves indicated in the illustration.
  - Using a feeler gauge, measure the clearance between the valve lifter and camshaft.
     Valve clearance (Cold):

Intake 0.15 to 0.25 mm (0.006 to 0.010 in.) Exhaust 0.29 to 0.39 mm (0.011 to 0.015 in.)

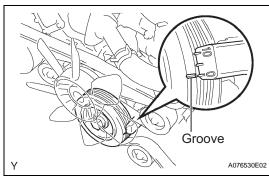
(2) Record any out-of-specification valve clearance measurements. They will be used later to determine the required replacement valve lifter.



- (c) Turn the crankshaft 240° clockwise, and check the valves indicated in the illustration.
  - (1) Using a feeler gauge, measure the clearance between the valve lifter and camshaft.
  - (2) Valve clearance (Cold):
     Intake 0.15 to 0.25 mm (0.006 to 0.010 in.)
     Exhaust 0.29 to 0.39 mm (0.011 to 0.015 in.)

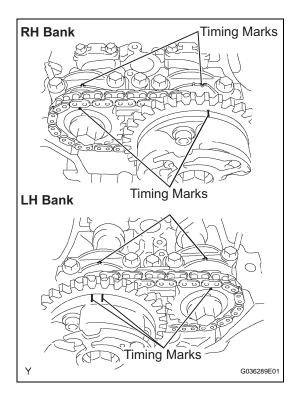
Record any out-of-specification valve clearance measurements. They will be used later to determine the required replacement valve lifter.



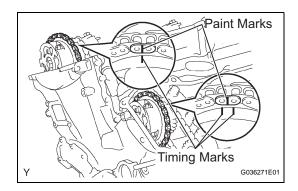


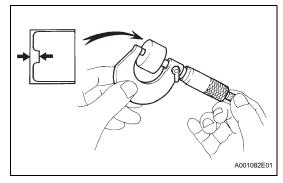
## 11. ADJUST VALVE CLEARANCE

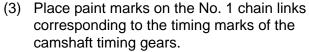
- (a) Set No. 1 cylinder to TDC/compression.
  - (1) Turn the crankshaft pulley until its groove and the timing mark "0" of the timing chain cover are aligned.



(2) Check that the timing marks of the camshaft timing gears are aligned with the timing marks of the bearing cap as shown in the illustration. If not, turn the crankshaft 1 complete revolution (360°) and align the timing marks as above.







- (b) Remove the chain tensioner assembly No. 1.
- (c) Remove the No. 2 camshaft.
- (d) Remove the chain tensioner assembly No. 2.
- (e) Remove the camshaft.
- (f) Remove the No. 4 camshaft sub-assembly.
- (g) Remove the chain tensioner assembly No. 3.
- (h) Remove the No. 3 camshaft sub-assembly.
- (i) Remove the valve lifters.
- (j) Determine the replacement valve lifter size according to the following formulas and charts:
  - (1) Using a micrometer, measure the thickness of the removed lifter.
  - (2) Calculate the thickness of a new lifter so that the valve clearance comes within the specified value.

T:

Thickness of removed lifter

A:

Measured valve clearance

N:

Thickness of new lifter

Intake:

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

**Exhaust:** 

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

(3) Select a new lifter with a thickness as close as possible to the calculated value.

HINT:

Lifters are available in 35 sizes in increments of 0.020 mm (0.0008 in.), from 5.060 mm (0.1992 in.) to 5.740 mm (0.2260 in.).



5.660 (0.2228) 5.680 (0.2236) 5.700 (0.2244) 5.720 (0.2252) 5.740 (0.2260)

66 68 72 72 74

24 4 4 84 48 46

5.200 (0.2037) 5.200 (0.2055) 5.240 (0.2063) 5.260 (0.2071) 5.280 (0.2071)

18 20 22

5.460 (0.2150) 5.480 (0.2157) 5.500 (0.2165)

20

26

24

52

28

Control   Cont									Г
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Gest 20 0.0555   St.	(\$E15.0) 0\cdot		2.060	5.080	5.100	5.120	5.140	5.160	
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1	(2012.0) 003.2								
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/	0-00	38 - C	9 5	32-0	10 - 0	18 - C	J-95	33 - C	3-0-6	37 - 0	35 - 6	31-		54 - C	32 - C	2 2	35-0	33-0	1-0	0 - 60	2-7-	33-0	11 - 0	18 - C	36 - C	30-0 30-0	38 - C	4-0	1-0	27-0	35 - 6	51-0	39 - C	74 - C 32 - 0	9-0	
/	0.000	0000	1000	000.0	0.00	7.004	00.	000	000.	3.00.	3000			0.01	0.01	10.0	0.018	0.01	0.020	0.020	0.021	0.023	0.024	0.024	3.025	0.027	3.028	3030	0.031	0.03	0.033	0.035	0.035	3.037	0.035	
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/	000	.021	194	081	101	121	141	161	201	.221	241	281		.391	114	451	471	.491	.511	531	.551	591	.611	631	.651	711	731	777	791	831	851	.891	931	.951	.991	
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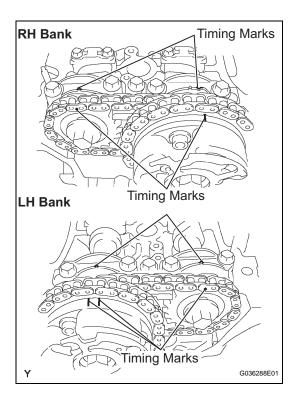
72

52

5.240 (0.2063)

24 26 28

5.260 (0.2071)



- (k) Install the No. 3 camshaft sub-assembly.
- (I) Install the chain tensioner assembly No. 3.
- (m) Install the No. 4 camshaft sub-assembly.
- (n) Install the camshaft.
- (o) Install the chain tensioner assembly No. 2.
- (p) Install the No. 2 camshaft.
- (q) Install the chain tensioner assembly No. 1.
  - (1) Check that the timing marks of the camshaft timing gears are aligned with the timing marks of the bearing cap as shown in the illustration.
- 12. INSTALL CYLINDER HEAD COVER SUB-ASSEMBLY LH (See page EM-68)
- 13. INSTALL CYLINDER HEAD COVER SUB-ASSEMBLY (See page EM-68)
- 14. INSTALL IGNITION COIL ASSEMBLY Torque: 10 N\*m (102 kgf\*cm, 7.4 ft.\*lbf)
- 15. INSTALL INTAKE AIR SURGE TANK (See page EM-69)
- 16. INSTALL AIR CLEANER ASSEMBLY (See page ES-416)
- 17. ADD ENGINE COOLANT (See page CO-3)
- 18. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL
- 19. CHECK FOR ENGINE COOLANT LEAKAGE (See page CO-4)
- 20. INSTALL V-BANK COVER
  - (a) Install the V-bank cover with the 2 nuts. Torque: 7.5 N\*m (76 kgf\*cm, 66 in.\*lbf)
- 21. INSPECT IGNITION TIMING (See page EM-1)

