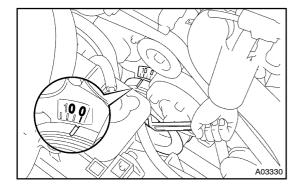
VALVECLEARANCE

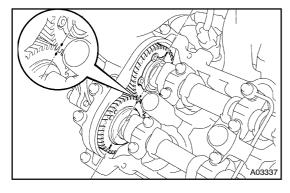
ADJUSTMENT

- 1. REMOVE V-BANK COVER
- 2. REMOVE CYLINDER HEAD COVER SUB-ASSY See page 4-97)
- 3. REMOVE CYLINDER HEAD COVER SUB-ASSY LH See page 4-102)

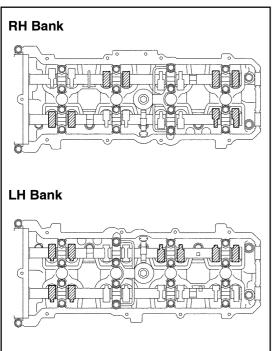


4. SET NO. 1 CYLINDER TO TDC/COMPRESSION

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



(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.



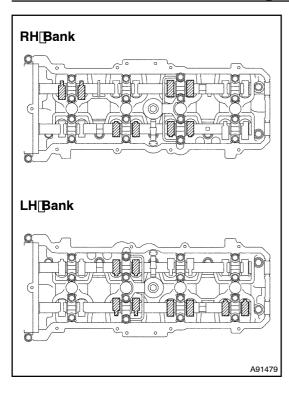
5. INSPECT VALVE CLEARANCE

- (a) Check only the valves indicated by diagonal lines in the illustration
 - (1) Using a feeler gauge, measure the clearance be tween the valve lifter and camshaft.

Valve clearance (Cold):

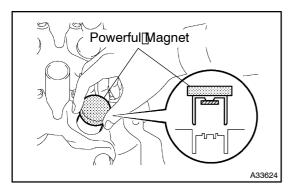
Intake	0.15 to 0.25 mm (0.006 to 0.010 in.)
Exhaust	0.25 to 0.35 mm (0.010 to 0.014 in.)

(2) Record valve clearance measurements that are out of the specified range. These measurements will be used later to determine the size of the adjustment shim to be installed.



- (b) Turnine change in the control of the control of
- (c) Check only the valves indicated by diagonal ines in the illustration. Measure the valve clearance see procedure in step (a)).

- 6. REMOVE CAMSHAFT See page 4-81)
- 7. REMOVE NO.3 CAMSHAFT SUB-ASSY See page 4-89)

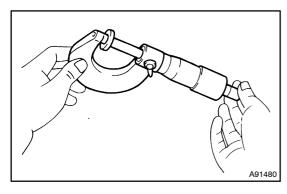


8. ADJUST VALVE CLEARANCE

(a) Using a powerful magnet, remove the valve lifter and adjusting shim.

NOTICE:

- Since shims might drop inside the cylinder head, the operation should be performed slowly.
- Shims should be classified by the installation.



- (b) Determine the replacement adjusting shim size according to these formulas and 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.))

(c) 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).

- (d) Install a new adjusting shim to the spring retainer.
- (e) Install the valve lifter.

(Intake)
Chart
Selection
Shim
Adjusting

				,			·																																	
		9 62			3 70	74																				(in.)		(8)	9	(4)	Ξ	66	2	(2)	<u> </u>	E	6	<u>2</u>	4 3	<u>2</u>
	2.780 (0.1094) 2.780 (0.1094)		60 62 62 64	64 66	66 68	70 72	-	80 80	2																	mm (in.)	sse	2.560 (0.1008)	2.580 (0.1016)	2.600 (0.1024)	2.620 (0.1031)	2.640 (0.1039)	2.660 (0.1047)	2.680 (0.1055)	2.700 (0.1063)	2.720 (0.1071)	2.740 (0.1079)	2.760 (0.1087)	2.780 (0.1094)	2.800 (0.1102)
	(500,0) 047.2		58 6			00 2		808	8 8	1																_	Thickness	0) 0	9	9	0	9	읭	읭	읭	읭	9	읭	의	3
	(1701.0) 027.2		28 28		62	_		28	80	80	_																卢	2.56	2.58	2.60	2.62	2.64	5.66	5.68	23	2.72	2.74	2.76	2.78	8
	2.700 (0.1063)	-	54	28	60	8 6		76	80	80																	L	,,	``		Ì		`						``	
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	2.640 (0.1039) 2.660 (0.1047)	46 48	48 50 50 52		54 56		-	70 72	74 76	76 78			5]														Shim No	56	58	9	62	64	99	88	7		7	_	-	[∞]
	2.620 (0.1031)		46 48 5		52 5				727	74 7		80 8		1													Ħ				_					\exists				
	2.600 (0.1024)		44 8		22				8 2	72		78.6		8													ω ₀	868	9060	913	921	929	937	945	953	961	696	926	984	3992
	(0201.0) 063.2	40	4 8	48	50			99	8 2	72	76	8 8	8 8	80	8											w	knes	0.0	0.0	0.0	0.0	9	9	9	9	9	9	9	9	9
	2.570 (0.1012) 2.580 (0.1016)		2 45 4 44		3 48	22 3		4 64	9 89			3 76		8	8	7										New shim thickness	Thickness	2.280 (0.0898)	2.300 (0.0906)	2.320 (0.0913)	2.340 (0.0921)	2.360 (0.0929	2.380 (0.0937	2.400 (0.0945)	2.420 (0.0953)	2.440 (0.0961)	2.460 (0.0969	2.480 (0.0976)	2.500 (0.0984)	2.520 (0.0992)
	2.560 (0.1018)	38 38	40 42 42 44	44 46	46 48				66 68		72 74	74 76			80 80	2										ള		2	2	2	6	2.	2	2	2	۲i	2	7	61	21
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	(9660.0) 089.2		38	42		48		9	64			72	_		80		80									Š	S							\dashv	\dashv	\dashv	\dashv	-+		-
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	2.500 (0.0984) 2.510 (0.0988)		34 36		40 42				29 PO 90 62		94 96 98	68 70	72 74	76	9/ 9/			80 80									ssət	0.07	0.07	0.08	0.08	0.08	0.08	80.0	80.0	8	90.0	0.08	80.0	0.08
	(0890,0) 004.2		34 3		404				9 09			68 6		74 7	/ 9/		808	808	20								Thickness	2.000 (0.0787	2.020 (0.0795)	2.040 (0.0803)	2.060 (0.0811)	2.080 (0.0819)	2.100 (0.0827	2.120 (0.0835)	2.140 (0.0843)	2.160 (0.0850)	2.180 (0.0858)	2.200 (0.0866)	2.220 (0.0874)	2.240 (0.0882)
	(9760.0) 084.2		32	36	88	42		54	28	90		99	312		4 4	78	8	8	<u> </u>								F	2.0	2.0	2.0	2.Q	2.0	2.1	2.1	2.1	2	2.1	2.2	2.2	2.2
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	-/ -	0.000-0.030 (0.0000-0.0012)	0.031-0.050 (0.0012-0.0020)	0.0710.090 (0.0028-0.0035)	0.091-0.110 (0.0036-0.0043)		0-0	0.251-0.270 (0.0099-0.0106)	0.291-0.310 (0.0115-0.0122)	0.311-0.330 (0.0122-0.0130)	10	100	10	1-0	9	10	10	입,	0 0	0.591-0.610 (0.0233-0.0240)	0.611-0.630 (0.0241-0.0248)	9	0.671-0.690 (0.0264-0.0272)	0.691-0.710 (0.0272-0.0280) 0.711-0.730 (0.0280-0.0287)	9	0.751-0.770 (0.0296-0.0303) 0.771-0.790 (0.0304-0.0311)	0.791 - 0.810 (0.0311 - 0.0319) $0.811 - 0.830 (0.0319 - 0.0327)$	0.831-0.850 (0.0327-0.0335)	0.871-0.890 (0.0343-0.0350)	0.891-0.910 (0.0351-0.0358)	0.911 - 0.930 (0.0359 - 0.0366)	0.951-0.970 (0.0374-0.0382)	0.971-0.990 (0.0382-0.0390)	1.011-1.030 (0.0398-0.0406)	1.031-1.050 (0.0406-0.0413)					
	Installed shii	0.00	0.031-0.050 (0.0012-0.0020)	0.07	0.09	0.13	0.150-0.250 (0.0059-0.0098)	0.25	0.29	0.31	0.351-0.370 (0.0138-0.0146)	0.371-0.390 (0.0146-0.0154)	0.41	0.431-0.450 (0.0170-0.0177)	0.45	0.491-0.510 (0.0193-0.0201)	0.511-0.530 (0.0201-0.0209)	0.531-0.550 (0.0209-0.0217)	0.551-0.570 (0.0217-0.0224) 0.571-0.590 (0.0225-0.0232)	0.59	0.61	0.651-0.670 (0.0256-0.0264)	0.67	0.69	0.731-0.750 (0.0288-0.0295)	0.75	0.79	0.83	0.87	0.89	19.0	0.95	0.97	1.01	1.03					
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shim with a No. 54 shim.

2.520 (0.0992) 2.540 (0.1000)

54

2.260 (0.0890) 2.240 (0.0882)

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Adjusting Shim Selection Chart (Exhaust)	Marie (10,0965) 2,450 (0,0965) Marie (10,0965) Marie (10,0967) Marie (10,0967) Marie (10,0967) Marie (10,0968) Marie (0.000-0.030 (0.0000-0.0012)	00 00 00 00 00 00 00 00 00 00 00 00 00		00 00 00 00 02 02 04 06 06 08 08 10 10 12 12 14 14 16 16 18 18	0.111—0.130 (0.0044—0.0051) 00 00 00 00 00 00 00	00 00 00 00 00 02 04 06 08 08 10 10 12 12 14 14 16 16 18 18 20 20 22 22 24 24 26 26 28 28 30 30	00 00 00 00 00 02 04 06 08 10 10 12 12 14 14 16 16 18 18 20 20 22 22 24 24 26 26 28 28 30 30 32 32 34	00 00 00 00 02 04 06 08 10 12 12 14 14 16 16 18 18 20 20 22 22 24 24 26 26 28 28 30 30 32 32 33 34 34 36 00 00 00 00 00 00 00 00 00 00 10 12 14 14 15 18 18 20 20 02 22 24 24 26 26 28 28 30 30 32 32 34 34 36 38 38 38 38 38 38 38 38 38 38 38 38 38	231 - 2240 (0.0091 - 0.0098) 00 00 00 00 00 00 00	06 08 10 12 14 16 18 20 22 24	10 12 14 16 18 20 22 24 26 28 30 30 32 32 34 34 36 36 38 38 40 40 42 42 44 44 46 46 48 48 50 50 55 52	10 12 14 16 18 20 22 24 26 28 30 32 32 34 34 36 36 38 38 40 40 42 42 42 44 46 46 48 48 50 50 52 52 54 54	0.411-0.430 (0.0162-0.0169) 12 14 16 18 20 22 24 26 28 30 32 34 36 38 38 40 40 42 42 44 44 46 48 48 50 50 52 52 54 54 56 58 58 58 58 58 58 58 58 58 58 58 58 58	16 18 20 22 24 26 28 30 32 34 36 38 38 40 40 42 42 44 44 46 46 48 48 50 50 52 52 52 54 56 56 56 56 58 58 60 60	18 20 22 24 26 28 30 32 34 36 38 40 42 42 44 44 46 46 48 48 80 50 52 52 54 56 56 56 56 58 60 60 62 62	0.491 = 0.510 (0.0193 = 0.0201) 2.0 (22 24 26 28 30 32 34 36 38 40 42 44 46 46 48 30 50 50 51 54 56 56 58 58 60 60 62 62 64 66 66 68 68 66 68 68	24 26 28 30 32 34 36 38 40 42 44 46 46 48 48 50 50 52 52 54 54 56 56 58 58 60 60 62 62 64 64 66 66 68 68	32 34 36 38 40 42 44 46 48 48 50 50 52 52 54 56 56 58 58 60 60 62 62 64 64 66 66 68 68 34 56 59 54 54 56 68 68	28 30 32 34 36 38 40 42 44 46 48 50 30 30 32 34 36 38 40 42 44 46 48 50 52 52	32 34 36 38 40 42 44 46 48 50 52 54 54 56 56 58 58 60 60 62 62 64 64 66 66 68 68 70 70	48 50 52 54 56 56 50 52 54 56 58 58	38 40 42 44 46 48 50 52 54 56 58 60 60 62 62 64 64 66 66 68 68 70 70 72 72 74 74 76 76 78 78 80 80 80 80	0.691-0.710 (0.0272-0.0280) 40 42 44 46 48 50 52 54 56 58 60 62 64 64 66 66 68 68 70 70 72 72 74 74 76 76 78 78 80 80 80 80 80 80 80 80 80 80 80 80 80	-0.750 (0.0288-0.0295) 44 46 48 50 52 54 56 58 60 62 64 66 68 68 70 70 72 72 74 74 76 76 78 78 80 80 80 80 80 80 80 80	50 52 54 52 54 56	50 52 54 56 58 60 62 64 66 68 70 72 72 74 74 76 76 78 78 80 80 80 80 80 80 80 80 80 80 80 80 80	54 56 58 60 62 64 66 68 70 72 74 76 76 78 78 80 80 80 80 80 80	62 64 66 68 70 72 74 76 78 80 80 80 80	60 62 64 66 68 70 72 74 76 78 80 80 80 80 80 80	0.541-0.0265-0.0258-0.02686 264 666 87 77 72 74 77 81 80 80 80 80 80 80 80	66 68 770 772 74 776 778 80 80 80	68 70 72 74 76 78 80	74 76 78 80 80 80 80 80 80 80 80 80 80 80 80 80	74 76 78 80 80 80	76 78 80 80 80 80 F	I ne 2.300 mm (0.0906 in.) snim is installed,	and the measured clearance is 0.440 mm	(0.0173 in.). Replace the 2.300 mm (0.0906 <u>2</u>	in.) shim with a No. 44 shim.	

- 9. INSTALL[NO.3[CAMSHAFT[\$UB-ASSY[[See]page]] 4-89)
- 10. INSTALL CAMSHAFT (See page 4-81)
- 11. INSTALL CYLINDER HEAD COVER SUB-ASSY LH See page 14-102)
- 12. INSTALL CYLINDER HEAD COVER SUB-ASSY See page 14-97)
- 13. INSTALL V-BANK COVER