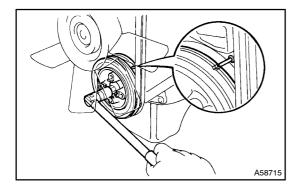
# **VALVE CLEARANCE (5L-E)**

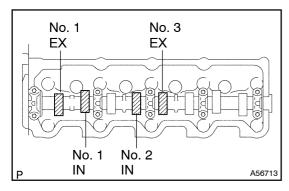
## **ADJUSTMENT**

- 1. REMOVE INTAKE PIPE
- 2. REMOVE CYLINDER HEAD COVER SUB-ASSY
- (a) Disconnect the ventilation hose.
- (b) Remove the 9 bolts, nut, cylinder head cover and gasket.



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

- (a) Turn the crankshaft pulley and align its groove with timing pointer.
- (b) Check that the valve lifters on the No.1 cylinder are loose and valve lifters on the No.4 are tight.
  If not, turn the crankshaft one revolution (360°) and align the mark as above.

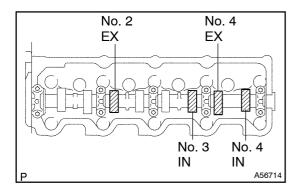


#### 4. INSPECT VALVE CLEARANCE

- (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):

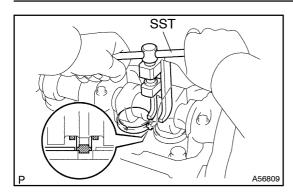
Intake	0.20 – 0.30 mm (0.008 – 0.012 in.)
Exhaust	0.40 – 0.50 mm (0.016 – 0.020 in.)



- (b) Turn the crankshaft one revolution (360°) and align the mark as above. (See procedure in step 3)
- (c) Check only the valves indicated as shown. Measure the valve clearance. (See procedure in step (a))

#### Valve clearance (Cold):

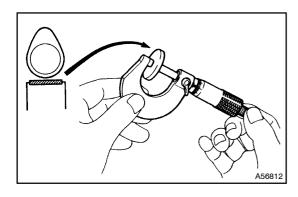
Intake	0.20 – 0.30 mm (0.008 – 0.012 in.)
Exhaust	0.40 – 0.50 mm (0.016 – 0.020 in.)



# P A56810



- (a) Remove the adjusting shim.
  - (1) Turn the crankshaft so that the cam lobe of the camshaft on the adjusting valve points upward.
  - (2) Using SST, press down the valve lifter.
  - SST 09248-64011
  - (3) Position the notch of the valve lifter facing the exhaust manifold side.
  - (4) Remove the adjusting shim with a small screwdriver and magnetic finger.



- (b) Determine the replacement adjusting shim size by following the 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 specified value.
    - T = Thickness of removed shim
    - A = Measured valve clearance
    - N = Thickness of new shim

Intake	N = T + (A – 0.25 mm (0.010 in.))
Exhaust	N = T + (A - 0.45  mm  (0.018  in.))

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

#### HINT:

Shims are available in 17 sizes in increments of 0.05 mm (0.0020 in.), from 2.50 mm (0.0984 in.) to 3.30 mm (0.1299 in.).

### **Adjusting Shim Selection Using Chart (Intake)**

				•													- 3				1			<u> </u>														
Measured clearance	(0.0984)	0392)	(000)	1008)	1016)	1024)	1039)	1043)	1047)	1063)	1071)	(0.1079)		1094) sul	105 1105	(0111 (0111	1118) 1123	1126) mid	1134) H	1142)	nes (0611	1161)	1165)	11/3)	1189)	1197)	1201)	1205)	1220)	1228)	1240)	(0.1244)	1252)	1260)	1276)	1280) uu	(0.1283) U	7 (1291)
mm (in.)	2.500 (0.	2.520 (0.	2.540 (0.1000)	2560 (0.	2.580 (0.	2.620 (0.1024)	2.640 (0.1039)	2.650 (0.	680 (0.7	2.700 (0.	2.720 (0.1071)	2.740 (0.	2.750 (0.1083)	2.780 (0.	2.800 (0.	2.820 (0.	2.840 (0.	2,860 (0	2.880 (0.	2.900 (0.	2.920 (0.	2.950 (0.1161)	2.960 (0.	2.980 (0.	3.020 (0.	3.040 (0.	3.050 (0.	3.080 (0.	3.100 (0.	3.120 (0.1228)	3.150 (0.	3.160 (0.	3.180 (0.1252)	3.200 (0.	3.240 (0.1276)	3.250 (0.	3.260 (0.	3.300 (0.
0.000 - 0.020 (0.0000 - 0.0008)	H	H	+	+	H	+	+	+	+	01	01	01 0	01 01	1 42	242	06	060	606	343	431	11	111	114	144	416	16	161	645	545	21 2	1 21	21	464	62	3 2 6	26		
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0.321 - 0.340 (0.0126 - 0.0134)	06	06	064	343	43	11 11	111	44	444	4 16	16	164	15 45	5 4 5	5 21	21	21 4	646	346	26 2	26 2	647	474	173	1 31	31	48	18 48	336	363	6 49	149	494	114	1 41	41	41	
0.341 - 0.360 (0.0134 - 0.0142)	06	06	434	3 43	11	11 1	144	44	44 1	6 16	16	45	15 4	5 21	1 21	21	464	646	5 26	26 2	264	747	47	31 3	1 31	48	484	1830	636	364	945	49	414	11 4	1 41	41		
0.361 - 0.380 (0.0142 - 0.0150)	06	43	434	111	11	11 44	116	16	161	6 45	145	21	15 2	1 21	1 46	46	26 2	620	3 26	47	172	1 31	31	31/3	8 48	36	36	36 36	6/19	494 494	1 41	41	41/	11	Ш			
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0.501 - 0.520 (0.0197 - 0.0205)	44	16	161	6 16	45	45 2	1 21	21	21 4	646	3 26	26	26 20	647	747	31	31 3	1 3	1 48	48	363	636	36	49 4	9 41	41	41	11 4	1									
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0.581 - 0.600 (0.0221 - 0.0228)	45	45	21/2	1 2	21	464	626	26	262	64	747	31	31 3	1 31	1 48	48	363	63	636	49	494	141	41	41 4	1	•												
0.601 0.620 (0.0237 0.0244)	45	21	21 2	21 2	46	46 2	626	26	264	74	731	31	31 3	1 48	848	36	363	63	649	49	41 4	1 41	41	41														
0.621 0.640 (0.0244 0.0252)	21	21	21/	16 46	46	26 20	6 26	47	47 4	7 31	1 31	31	48 48	8 48	8 36	36	36 4	94	9 49	41	41 4	141	41															
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0.861 - 0.880 (0.0339 - 0.0346) 0.881 - 0.900 (0.0347 - 0.0354)						494						ı								01	j	2	.50	) (	0.0	98	84	)	4	ŀ6		2.	95	(C	).1	16	1)	_
0.901 - 0.920 (0.0355 - 0.0362)	48	36	363	36 36	349	494	1 41	41	414	1	3									42		2	.55	5 (	0.1	00	04	)	2	26		3.	00	(C	).1	18	1)	
0.921 - 0.940 (0.0363 - 0.0370) 0.941 - 0.960 (0.0370 - 0.0378)	36	36	364 497	1949	49	41 4 41 4	1 41	41	41											06		2	.60	) (	0.1	02	24	)	4	17	+	3.	05	(C	).1	20	1)	1
0.961 - 0.980 (0.0378 - 0.0378)	36	49	494	194	41	41 4		-+ 1											_	43					0.1					31	-			<u> </u>	).1	-	<u> </u>	1
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1.021 - 1.040 (0.0402 - 0.0402)	41	41	41	114															L.					`				<b>,</b>						<u> </u>			10)	-
1.041 - 1.060 (0.0410 - 0.0417) 1.061 - 1.080 (0.0418 - 0.0425)		41 41	414	11															l l	44	- I				0.1					36	_					_	60)	_
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																				21		2	.90	) (	0.1	14	12	)										

## Intake valve clearance (Cold): 0.20 - 0.30 mm (0.008 - 0.012 in.)

**EXAMPLE**:

The 2.800 mm (0.1102 in.) shim is installed and the measured clearance is 0.350 mm (0.0138 in.). Replace the 2.800 mm (0.1102 in.) shim with a No. 21 shim.

A56181

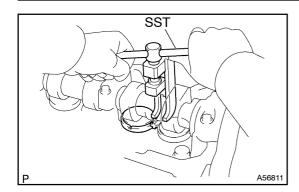
#### **Adjusting Shim Selection Using Chart (Exhaust)**

Measured clearance		$\top$	_										_			Ins	stal	lec	ls b	nim	th	ickı	nes	s											mr	n (ir	1.)
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0.001 - 0.000 (0.0000 - 0.0000 )	Magazirad algaranaa	ě	3	3 5		100	5 5	9 6	2	5 5		106	10	9	100	ĕ	= =	=	Ξ		= =	= =	11	-   -	==	=	17	12	12	12:	12/2	12	12	2	128	12	12
0.001 - 0.000 (0.0000 - 0.0000 )	Measured Clearance	9	2 9	2 5	99	0	9		9	9 9		0) (	9 9			္ဘု		9	9	9	9 9	9 9	9	2   9		9	99		9 9		90		ဗျ	မြ	9 9		
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Control   Cont		4	+	+	2	2	2 0	7	~	7 10	7 2	2	7	110	121	7	2 0	10	12	1	0	1 01	01 0	10	14242	206	0600	6064	4343	311	11 11	1111	14 44	16	1616	164	545
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	0.041 - 0.060 (0.0016 - 0.0024)	I	Ţ	Ţ	Ţ				Ш	$\perp$				Ţ	П	$\Box$	4		01	01 (	010	101	424	24:	20606	606	434:	343	11 11	1 1 1	4444	444	1616	16	45 45	45 2	1 21
1011   0.100 (0.0004   0.0005   0.0003   0.0007   0.0004   0.0004   0.0004   0.0005   0.0003   0.0007   0.0004   0.0005   0.0003   0.0007   0.0005   0.0003   0.0007   0.0005   0.0003   0.0007   0.0005   0.0005   0.0003   0.0007   0.0005   0.000		+	+	+	+	H	-	+	$\vdash$	$\dashv$	+	-	+	+	+	+	- 6	01	1 01	01 (	)10 114	142 242	424 060	20	5060t	343	1111	3 1 1 1	1111	1 44	1616	4116 616	16/16	45	45 4t 21 21	21 2	146
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0.261 - 0.280 (0.0013 - 0.00110)		4	4	+	+	L	1	+	Н	24 0	01	01	01 0	1 4:	242	42	06 0	600	643	43	43 1	111	114	44	44416	616	164	545	45 2	1 21	21 46	646	46 26	26	26 47	7474	7 31
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0.341 - 0.360 (0.0143 - 0.0142)	0.301 - 0.320 (0.0119 - 0.0126)	Ţ	1	1	Γ	Γ		1 01	01	01 0	11 42	42	060	60	606	43	43 1	1 1	1 11	11	444	416	161	61	6454	521	21 2	1 21	4646	626	26 2€	6 26	47 47	31	31 31	31 4	848
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0.381 - 0.399 (0.015 - 0.0157)		+	+	0	101	01	010	1 42	42	42 C	606	06	434	34	311	11	114	44.	444	16	161	645	454	152	1 21 2	1 46	464	6 26	26 20	647	4747	7 31	31 31	48	48 48	3 36 3	36 36
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0.621 - 0.640 (0.0224 - 0.0252)		- <del> 4</del>	134	13 1	1111	111	114	444	16	161 161	645	45	21 2	1 2	1 21	46	462	62	6 26	26	2614 474	731	31 3	313	1 484	8 4 8 8 3 6	363	636	494	949	414	141	41 41	J			
0.641 - 0.680 (0.0252 - 0.0260)		1	11	111	144	144	441	616	16	454	545	521	21 2	14	646	46	262	6 2	647	47	47 3	1 31	31	184	8483	636	364	949	494	1 41	414	1 41					
0.681 - 0.700 (0.0288 - 0.0276)		1	111	114	444	144	161	6116	45	454	15 21	121	21/4	164	646	26	26 2	64	7 47	47	31 3	1 31	484	18 4	8 36 3	6 36	494	949	41 4	1 41	414	1					
C701 - 0.720 (0.0276 - 0.0283)		- <u> 1</u>	14	144	616	116	161	545	45	45 Z	21 21	1 46	464	64	626	26 26	26 4 47 4	/ <u>4</u> 73	//4/ 1/31	31	31 3 31 4	848	36	18 3 36 3	6364	949	494 414	141	414	1 <del>4 1</del> 1 1							
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0.921 - 0.940 (0.0363 - 0.0370)   26   26   26   47   47   31   31   31   88   88   88   36   36   36   49   49   41   41   41   41   41   41		4	16	46 2	£6 2€	3 26	264	17 47	731	31 3	31 31	1 48	483	363	636	36	494	94	1 41	41	414		•														
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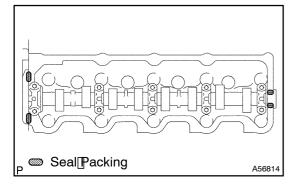
# Exhaust valve clearance (Cold): 0.40 - 0.50 mm (0.016 - 0.020 in.)

**EXAMPLE**:

The 2.800 mm (0.1102 in.) shim is installed and the measured is 0.350 mm (0.0138 in.). Replace the 2.800 mm (0.1102 in.) shim with a No. 11 shim.



- (c) Installa new adjusting shim.
  - (1) Place hew headjusting him on the valve fifter.
  - (2) Remove the SST.
- (d) Recheck the valve clearance.



#### 6. INSTALL CYLINDER HEAD COVER SUB-ASSY

- (a) Remove any oil packing [FIPG] material.
- (b) Apply[seal\_packing[lo]]he\_cylinder[head\_as\_shown]n[]he illustration.

# Seal\_packing:[Part[No.[08826-00080[or[equivalent

- (c) Instal the gasket to the cylinder head cover.
- (d) Install the cylinder head cover with 9 bolts and hut. Uniformly tighten the bolts and huts in several passes.

### Torque: 12[N·m[120[kgf·cm,[9[ft]]bf)]

- (e) Connect the ventilation hose.
- 7. INSTALL INTAKE [PIPE [See page ] 0-19)