

PISTON AND RING SPECIFICATIONS

All measurements are given in inches.

Year	Engine Displacement Liters (cc)	Engine ID/VIN	Piston Clearance	Ring Gap			Ring Side Clearance		
				Top Compression	Bottom Compression	Oil Control	Top Compression	Bottom Compression	Oil Control
1997	1.5 (1489)	Z5	0.0012- 0.0016	0.006- 0.011	0.010- 0.015	0.003- 0.006	0.0014- 0.0025	0.0012- 0.0025	0.0030- 0.0060
	1.8 (1839)	BP	0.0010- 0.0014	0.006- 0.011	0.006- 0.011	0.008- 0.027	0.0012- 0.0026	0.0012- 0.0027	0.0030- 0.0060
	2.0 (1991)	FS	0.0015- 0.0020	0.006- 0.012	0.006- 0.012	0.008- 0.028	0.0014- 0.0026	0.0014- 0.0026	SNUG
	2.3 (2255)	KJ	0.0004- 0.0014	0.006- 0.010	0.010- 0.014	0.008- 0.030	0.0014- 0.0025	0.0012- 0.0025	0.0028- 0.0062
	2.5 (2497)	KL	0.0012- 0.0022	0.006- 0.012	0.010- 0.016	0.008- 0.028	0.0008- 0.0025	0.0012- 0.0025	0.0008- 0.0020
1998	1.5 (1489)	Z5	0.0012- 0.0016	0.006- 0.011	0.010- 0.015	0.003- 0.006	0.0014- 0.0025	0.0012- 0.0025	0.0030- 0.0060
	1.8 (1839)	BP	0.0010- 0.0014	0.006- 0.011	0.006- 0.011	0.008- 0.027	0.0012- 0.0026	0.0012- 0.0027	0.0030- 0.0060
	2.0 (1991)	FS	0.0015- 0.0020	0.006- 0.012	0.006- 0.012	0.008- 0.028	0.0014- 0.0026	0.0014- 0.0026	SNUG
	2.3 (2255)	KJ	0.0004- 0.0014	0.006- 0.010	0.010- 0.014	0.008- 0.030	0.0014- 0.0025	0.0012- 0.0025	0.0028- 0.0062
	2.5 (2497)	KL	0.0012- 0.0022	0.006- 0.012	0.010- 0.016	0.008- 0.028	0.0008- 0.0025	0.0012- 0.0025	0.0008- 0.0020
1999-00	1.6 (1597)	ZM	NA	NA	NA	NA	NA	NA	NA
	1.8 (1839)	BP	0.0010- 0.0014	0.006- 0.011	0.006- 0.011	0.008- 0.027	0.0012- 0.0026	0.0012- 0.0027	0.0030- 0.0060
	1.8 (1839)	FP	NA	NA	NA	NA	NA	NA	NA
	2.0 (1991)	FS	0.0015- 0.0020	0.006- 0.012	0.006- 0.012	0.008- 0.028	0.0014- 0.0026	0.0014- 0.0026	SNUG
	2.3 (2255)	KJ	0.0004- 0.0014	0.006- 0.010	0.010- 0.014	0.008- 0.030	0.0014- 0.0025	0.0012- 0.0025	0.0028- 0.0062
	2.5 (2497)	KL	0.0012- 0.0022	0.006- 0.012	0.010- 0.016	0.008- 0.028	0.0008- 0.0025	0.0012- 0.0025	0.0008- 0.0020

NA: Not Available

① SOHC engine - 0.0010 - 0.0030
DOHC engine - 0.0012 - 0.0028

② 323 - 0.0060 - 0.0120
MX3 - 0.0120 - 0.0180

③ 323 - 0.0012 - 0.0026
MX3 - 0.0012 - 0.0028