

# PISTON BUYER'S GUIDE

Cylinder Wall Clearance is showing  
Total Diameter, not one side.  
EX: -0.04 (Total) / 2 = -0.02 (one side)



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**RED = NEW INFORMATION**

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-012	4	84.000	80.00	37.00	-	0.80	2.00	66.00	84.000 Tolerance is +/- (mm   inch) : 0.0025 0.00010				
		3.307	3.150	1.457					0.031	0.079	2.598	YELLOW:	83.9775
PISTON RING #		Total Clearance				2.00		RED:	83.9675	84.2175	84.4675	84.7175	84.9675
SWI10056		mm	inch			0.079		BLUE:	3.30581	3.31565	3.32549	3.33533	3.34518
		-0.04	-0.00157			4.00	22.00	GREEN:	3.30561	3.31545	3.32530	3.33514	3.34498
						0.157	0.866	REMARKS: Measure for CYL Clearance: 15.00 mm from Bottom of Skirt. 0.591 inch					
PAGE #		95	177										
11-016	4	87.000	80.00	37.00		1.50	77.00	87.000 Tolerance is +/- (mm   inch) : 0.0025 0.00010					
		3.425	3.150	1.457				0.059	0.059	3.031	YELLOW:	86.9775	87.2275
PISTON RING #		Total Clearance				1.50		RED:	86.9675	87.2175	87.4675	87.7175	87.9675
SWI10096		mm	inch			0.059		BLUE:	3.42392	3.43376	3.44360	3.45344	3.46329
		-0.04	-0.00157			4.00	22.00	GREEN:	3.42372	3.43356	3.44341	3.45325	3.46309
						0.157	0.866	REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch					
PAGE #		97	177										
11-020	4	74.000	58.00	29.00	-	1.50	60.00	73.980 Tolerance is +/- (mm   inch) : 0.003 0.00012					
		2.913	2.283	1.142				0.059	0.059	2.362	YELLOW:	73.9730	74.2230
PISTON RING #		Total Clearance				1.50		RED:	73.9865	74.2365	74.4865	74.7365	74.9865
SWM31027		mm	inch			0.059		BLUE:	2.91285	2.92270	2.93254	2.94238	2.95222
		-0.04	-0.00157			4.00	18.00	GREEN:	73.9795	74.2295	74.4795	74.7295	74.9795
						0.157	0.709	REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch					
PAGE #		13											
11-027	4	85.000	72.20	35.20	-	5.20	72.00	84.980 Tolerance is +/- (mm   inch) : 0.0045 0.00018					
		3.346	2.843	1.386				0.205	0.079	2.835	YELLOW:	84.9905	85.2405
PISTON RING #		Total Clearance				2.00		WHITE:	3.34608	3.35593	3.36577	3.37561	3.38545
SWM31013		mm	inch			0.30		BLUE:	84.9825	85.2325	85.4825	85.7325	85.9825
		-0.04	-0.00157			4.00	21.00	GREEN:	3.34577	3.35561	3.36545	3.37530	3.38514
						0.157	0.827	REMARKS: Measure for CYL Clearance: 30.00 mm from Bottom of Skirt. 1.181 inch					
PAGE #		17	211										

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.	inch	inch	inch	inch	inch	
		inch	inch	inch	inch	OIL2	mm	MID	MID	MID	MID	MID	
11-028	4	91.100	88.70	48.70	-	2.30	75.00	<b>91.100 Tolerance is +/- (mm   inch) : 0.0025 0.00010</b> YELLOW: 91.0775 91.3275 91.5775 91.8275 92.0775 3.58573 3.59557 3.60541 3.61526 3.62510 RED: 91.0675 91.3175 91.5675 91.8175 92.0675 3.58533 3.59518 3.60502 3.61486 3.62470 BLUE: 91.0625 91.3125 91.5625 91.8125 92.0625 3.58514 3.59498 3.60482 3.61467 3.62451 GREEN: 91.0725 91.3225 91.5725 91.8225 92.0725 3.58553 3.59537 3.60522 3.61506 3.62490					
		3.587	3.492	1.917		0.091	0.098						2.953
		PISTON RING #		Total Clearance			2.60	2.00	<b>REMARKS:</b> Measure for CYL <b>10.00 mm</b> <b>from Bottom of</b> Clearance: <b>0.394 inch</b> <b>Skirt.</b>				
SDM31038		mm	inch	0.10	0.079	4.00							
		-0.1016	-0.00400			0.157							
						Cir Clip							
							SURFACE TREATMENT						
						NONE	NONE						
						C17	NONE						
		PAGE #	21	213									
11-031	4	91.100	77.20	35.20		2.00	75.00	<b>91.070 Tolerance is +/- (mm   inch) : 0.0045 0.00018</b> YELLOW: 91.0805 91.3305 91.5805 91.8305 92.0805 3.58585 3.59569 3.60553 3.61537 3.62522 WHITE: 91.0725 91.3225 91.5725 91.8225 92.0725 3.58553 3.59537 3.60522 3.61506 3.62490 BLUE: 91.0595 91.3095 91.5595 91.8095 92.0595 3.58502 3.59486 3.60470 3.61455 3.62439 GREEN: 91.0675 91.3175 91.5675 91.8175 92.0675 3.58533 3.59518 3.60502 3.61486 3.62470					
		3.587	3.039	1.386			0.079						2.953
		PISTON RING #		Total Clearance			2.00	2.00	<b>REMARKS:</b> Measure for CYL <b>37.50 mm</b> <b>from Bottom of</b> Clearance: <b>1.476 inch</b> <b>Skirt.</b>				
SWM31047		mm	inch		0.079	0.866							
		-0.04	-0.00157			4.00							
						Cir Clip							
						NONE	SURFACE TREATMENT						
						J05	NONE						
		PAGE #	29	215									
11-035	4	91.100	78.30	36.00	+	1.50	79.00	<b>91.100 Tolerance is +/- (mm   inch) : 0.0025 0.00010</b> YELLOW: 91.0775 91.3275 91.5775 91.8275 92.0775 3.58573 3.59557 3.60541 3.61526 3.62510 RED: 91.0675 91.3175 91.5675 91.8175 92.0675 3.58533 3.59518 3.60502 3.61486 3.62470 BLUE: 91.0625 91.3125 91.5625 91.8125 92.0625 3.58514 3.59498 3.60482 3.61467 3.62451 GREEN: 91.0725 91.3225 91.5725 91.8225 92.0725 3.58553 3.59537 3.60522 3.61506 3.62490					
		3.587	3.083	1.417		0.012	0.059						3.110
		PISTON RING #		Total Clearance			1.50	2.00	<b>REMARKS:</b> Measure for CYL <b>25.00 mm</b> <b>from Bottom of</b> Clearance: <b>0.984 inch</b> <b>Skirt.</b>				
SWM31039		mm	inch		0.059	0.866							
		-0.04	-0.00157			4.00							
						Cir Clip							
						NONE	SURFACE TREATMENT						
						C17	NONE						
		PAGE #	29	31	205	215							
11-049	4	76.000	65.00	30.00	-	1.20	63.00	<b>75.980 Tolerance is +/- (mm   inch) : 0.003 0.00012</b> YELLOW: 75.9730 76.2230 76.4730 76.7230 76.9730 2.99106 3.00091 3.01075 3.02059 3.03043 RED: 75.9865 76.2365 76.4865 76.7365 76.9865 2.99159 3.00144 3.01128 3.02112 3.03096 BLUE: 75.9795 76.2295 76.4795 76.7295 76.9795 2.99132 3.00116 3.01100 3.02085 3.03069					
		2.992	2.559	1.181		0.256	0.047						2.480
		PISTON RING #		Total Clearance			2.00	2.00	<b>REMARKS:</b> Measure for CYL <b>10.00 mm</b> <b>from Bottom of</b> Clearance: <b>0.394 inch</b> <b>Skirt.</b>				
SWN30052		mm	inch		0.079	0.748							
		-0.04	-0.00157			4.00							
						Cir Clip							
						NONE	SURFACE TREATMENT						
						T01	NONE						
		PAGE #	221										

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NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT								PISTON DIAMETER MEASURING POINT EXPLANATION									
NOA PISTON PART #	C Y L	PISTON INFORMATION					1ST 2ND OIL1 OIL2	PIN LENGTH DIA. mm	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)			
		BORE mm inch	LENGTH mm inch	COMP. mm inch	DIST. mm inch	+				mm	inch	mm	mm	mm	mm	mm	
												mm	inch	mm	inch	mm	inch
11-050	4	PAGE # 221		76.000	62.70	32.50	9.40	1.50	62.00	76.000	Tolerance is + / - (mm   inch) : 0.0025 0.00010						
				2.992	2.469	1.280	-	0.370	0.059		2.441	YELLOW:	75.9775	76.2275	76.4775	76.7275	76.9775
		PISTON RING #		Total Clearance					1.50			RED:	75.9675	76.2175	76.4675	76.7175	76.9675
		SWN30057		mm	inch				0.059			BLUE:	2.99085	3.00069	3.01053	3.02037	3.03022
				-0.04	-0.00157		4.00	19.00		GREEN:	75.9625	76.2125	76.4625	76.7125	76.9625		
							0.157	0.748			2.99065	3.00049	3.01033	3.02018	3.03002		
											75.9725	76.2225	76.4725	76.7225	76.9725		
											2.99104	3.00089	3.01073	3.02057	3.03041		
											REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch						
11-052	4	PAGE # 221		76.000	62.50	32.50	9.50	1.50	62.00	76.000	Tolerance is + / - (mm   inch) : 0.0025 0.00010						
				2.992	2.461	1.280	-	0.374	0.059		2.441	YELLOW:	75.9775	76.2275	76.4775	76.7275	76.9775
		PISTON RING #		Total Clearance					1.50			RED:	75.9675	76.2175	76.4675	76.7175	76.9675
		SWN30057		mm	inch				0.059			BLUE:	2.99085	3.00069	3.01053	3.02037	3.03022
				-0.04	-0.00157		4.00	19.00		GREEN:	75.9625	76.2125	76.4625	76.7125	76.9625		
							0.157	0.748			2.99065	3.00049	3.01033	3.02018	3.03002		
											75.9725	76.2225	76.4725	76.7225	76.9725		
											2.99104	3.00089	3.01073	3.02057	3.03041		
											REMARKS: Measure for CYL Clearance: 10.00 mm from Bottom of Skirt. 0.394 inch						
11-059	4	PAGE # 223		85.000	78.10	38.10	2.20	2.00	72.00	84.980	Tolerance is + / - (mm   inch) : 0.0045 0.00018						
				3.346	3.075	1.500	-	0.087	0.079		2.835	YELLOW:	84.9905	85.2405	85.4905	85.7405	85.9905
		PISTON RING #		Total Clearance					2.00			WHITE:	84.9825	85.2325	85.4825	85.7325	85.9825
		SWN30048		mm	inch				0.079			BLUE:	3.34577	3.35561	3.36545	3.37530	3.38514
				-0.04	-0.00157		4.00	21.00		GREEN:	84.9695	85.2195	85.4695	85.7195	85.9695		
							0.157	0.827			3.34526	3.35510	3.36494	3.37478	3.38463		
											84.9775	85.2275	85.4775	85.7275	85.9775		
											3.34557	3.35541	3.36526	3.37510	3.38494		
											REMARKS: Measure for CYL Clearance: 15.00 mm from Bottom of Skirt. 0.591 inch						
11-060	4	PAGE # 223		85.000	78.00	38.00	3.00	2.00	72.00	84.950	Tolerance is + / - (mm   inch) : 0.003 0.00012						
				3.346	3.071	1.496	-	0.118	0.079		2.835	YELLOW:	84.9430	85.1930	85.4430	85.6930	85.9430
		PISTON RING #		Total Clearance					2.00			RED:	84.9565	85.2065	85.4565	85.7065	85.9565
		SWN30048		mm	inch				0.079			BLUE:	3.34474	3.35459	3.36443	3.37427	3.38411
				-0.04	-0.00157		4.00	21.00			84.9495	85.1995	85.4495	85.6995	85.9495		
							0.157	0.827			3.34447	3.35431	3.36415	3.37400	3.38384		
											REMARKS: Measure for CYL Clearance: 15.00 mm from Bottom of Skirt. 0.591 inch						

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NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1 OIL2	DIA. mm		inch	inch	inch	inch	inch
11-062	4	84.500	65.00	30.00	2.20	1.50	61.00	YELLOW:	84.4775	84.7275	84.9775	85.2275	85.4775
		3.327	2.559	1.181	0.087	0.059	2.402		3.32589	3.33573	3.34557	3.35541	3.36526
PISTON RING #		Total Clearance		-	0.059	1.50	20.00	RED:	84.4675	84.7175	84.9675	85.2175	85.4675
SWN30053		mm	inch						mm	inch	mm	inch	3.32549
		-0.04	-0.00157			4.00	0.157	BLUE:	84.4625	84.7125	84.9625	85.2125	85.4625
						0.157	0.787	GREEN:	84.4725	84.7225	84.9725	85.2225	85.4725
									3.32569	3.33553	3.34537	3.35522	3.36506
				Cir Clip		SURFACE TREATMENT		REMARKS:					
				NONE		NONE		Measure for CYL Clearance: 30.00 mm from Bottom of Skirt.					
				C17		NONE							
PAGE #		225						84.500 Tolerance is +/- (mm   inch) : 0.0025 0.00010					
11-064	4	85.000	67.00	32.00	1.50	1.50	72.00	YELLOW:	84.9830	85.2330	85.4830	85.7330	85.9830
		3.346	2.638	1.260	0.059	0.059	2.835		3.34579	3.35563	3.36547	3.37531	3.38516
PISTON RING #		Total Clearance		-	0.10	1.50	21.00	RED:	84.9965	85.2465	85.4965	85.7465	85.9965
SWN30086		mm	inch						mm	inch	mm	inch	3.34632
		-0.04	-0.00157			4.00	0.157	BLUE:	84.9895	85.2395	85.4895	85.7395	85.9895
						0.157	0.827	GREEN:	84.9830	85.2330	85.4830	85.7330	85.9830
									3.34579	3.35563	3.36547	3.37531	3.38516
				Cir Clip		SURFACE TREATMENT		REMARKS:					
				NONE		NONE		Measure for CYL Clearance: 20.00 mm from Bottom of Skirt.					
				T01		NONE							
PAGE #		223						84.990 Tolerance is +/- (mm   inch) : 0.003 0.00012					
11-068	4	83.000	90.00	48.00	2.00	2.50	71.00	YELLOW:	82.9775	83.2275	83.4775	83.7275	83.9775
		3.268	3.543	1.890	0.079	0.098	2.795		3.26683	3.27667	3.28652	3.29636	3.30620
PISTON RING #		Total Clearance		-	0.02	2.00	26.00	RED:	82.9675	83.2175	83.4675	83.7175	83.9675
SDN31027		mm	inch						mm	inch	mm	inch	3.26644
		-0.1016	-0.00400			4.50	0.177	BLUE:	82.9625	83.2125	83.4625	83.7125	83.9625
						0.177	1.024	GREEN:	82.9725	83.2225	83.4725	83.7225	83.9725
									3.26663	3.27648	3.28632	3.29616	3.30600
				Cir Clip		SURFACE TREATMENT		REMARKS:					
				C17		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
				C17		NONE							
PAGE #		225						83.000 Tolerance is +/- (mm   inch) : 0.0025 0.00010					
11-069	4	87.000	72.00	32.00	2.50	1.50	64.00	YELLOW:	86.9905	87.2405	87.4905	87.7405	87.9905
		3.425	2.835	1.260	0.098	0.059	2.520		3.42482	3.43467	3.44451	3.45435	3.46419
PISTON RING #		Total Clearance		-	0.059	1.50	21.00	WHITE:	86.9825	87.2325	87.4825	87.7325	87.9825
SWN30054		mm	inch						mm	inch	mm	inch	3.42451
		-0.04	-0.00157			4.00	0.157	BLUE:	86.9695	87.2195	87.4695	87.7195	87.9695
						0.157	0.827	GREEN:	86.9775	87.2275	87.4775	87.7275	87.9775
									3.42400	3.43384	3.44368	3.45352	3.46337
				Cir Clip		SURFACE TREATMENT		REMARKS:					
				NONE		NONE		Measure for CYL Clearance: 0.00 mm from Bottom of Skirt.					
				J05		NONE							
PAGE #		225						86.980 Tolerance is +/- (mm   inch) : 0.0045 0.00018					

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		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm inch	mm inch	mm inch	mm inch	OIL1	DIA.		inch	inch	inch	inch	inch
11-070	4	89.000	72.00	34.00	+	4.00	1.50	72.00	84.980 Tolerance is +/- (mm   inch) : 0.0045 0.00018				
		3.504	2.835	1.339					0.157	0.059	2.835	YELLOW:	84.9850
PISTON RING #		Total Clearance											
SWN30059		mm	inch										
		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 30.00 mm from Bottom of Skirt.	
				J05		NONE		NONE		NONE			
PAGE #		225											
11-071	6	83.000	78.00	38.00			2.00	72.00	83.000 Tolerance is +/- (mm   inch) : 0.0025 0.00010				
		3.268	3.071	1.496					0.079	2.835	YELLOW:	82.9775	83.2275
PISTON RING #		Total Clearance											
SWN30034		mm	inch										
		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 25.00 mm from Bottom of Skirt.	
				C17		NONE		NONE		NONE			
PAGE #		225											
11-076	6	83.000	78.00	38.00	-	0.80	2.00	72.00	82.980 Tolerance is +/- (mm   inch) : 0.0045 0.00018				
		3.268	3.071	1.496					0.031	0.079	2.835	YELLOW:	82.9905
PISTON RING #		Total Clearance											
SWN30034		mm	inch										
		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 12.00 mm from Bottom of Skirt.	
				J05		NONE		NONE		NONE			
PAGE #		227											
11-081	6	86.000	78.30	38.00	-	3.00	2.00	72.00	85.950 Tolerance is +/- (mm   inch) : 0.003 0.00012				
		3.386	3.083	1.496					0.118	0.079	2.835	YELLOW:	85.9430
PISTON RING #		Total Clearance											
SWN30047		mm	inch										
		-0.04	-0.00157										
				Cir Clip		NONE		SURFACE TREATMENT		NONE		REMARKS:	
				NONE		NONE		NONE		NONE		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.	
				T01		NONE		NONE		NONE			
PAGE #		229											

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Cylinder Wall Clearance is showing  
Total Diameter, not one side.  
EX: -0.04 (Total) / 2 = -0.02 (one side)



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RED = NEW INFORMATION

NOA PISTON SPECIFICATION AND PISTON RING # FOR KIT							PISTON DIAMETER MEASURING POINT EXPLANATION						
NOA PISTON PART #	C Y L	PISTON INFORMATION				1ST	PIN	COLOR CODE	-0 (STD)	-1 (0.25)	-2 (0.50)	-3 (0.75)	-4 (1.00)
		BORE	LENGTH	COMP.	DIST.	2ND	LENGTH		mm	mm	mm	mm	mm
		mm	mm	mm	mm	OIL1	DIA.		inch	inch	inch	inch	inch
		mm	mm	mm	mm	OIL2	mm	MID	MID	MID	MID	MID	
PAGE #		229						85.950 Tolerance is +/- (mm   inch) : 0.003 0.00012					
11-082	6	86.000	78.20	38.00	-	2.00	72.00	YELLOW:	85.9430	86.1930	86.4430	86.6930	86.9430
		3.386	3.079	1.496		0.079	0.079		2.835	3.38358	3.39343	3.40327	3.41311
PISTON RING #		Total Clearance						RED:	85.9565	86.2065	86.4565	86.7065	86.9565
SWN30047		mm	inch						3.38411	3.39396	3.40380	3.41364	3.42348
		-0.04	-0.00157					BLUE:	85.9495	86.1995	86.4495	86.6995	86.9495
									3.38384	3.39368	3.40352	3.41337	3.42321
				Cir Clip				REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL Clearance: 22.00 mm from Bottom of Skirt.					
				T01		NONE							
PAGE #		229						85.950 Tolerance is +/- (mm   inch) : 0.003 0.00012					
11-084	6	86.000	78.80	38.50		1.50	72.00	YELLOW:	85.9430	86.1930	86.4430	86.6930	86.9430
		3.386	3.102	1.516		0.059	0.059		2.835	3.38358	3.39343	3.40327	3.41311
PISTON RING #		Total Clearance						RED:	85.9565	86.2065	86.4565	86.7065	86.9565
SWN30066		mm	inch						3.38411	3.39396	3.40380	3.41364	3.42348
		-0.04	-0.00157					BLUE:	85.9495	86.1995	86.4495	86.6995	86.9495
									3.38384	3.39368	3.40352	3.41337	3.42321
				Cir Clip				REMARKS:					
				NONE		SURFACE TREATMENT		Measure for CYL Clearance: 15.00 mm from Bottom of Skirt.					
				T01		NONE							