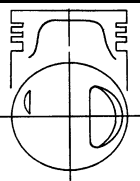





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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION									
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	PISTON PIN LENGTH					
FUEL				OEM #					OEM #					DIAMETER					
4G33 GASOLINE	4	1238	73.00	SWM31016ZZ	1	1.50	x	3.30	11-249	73.00	70.00	32.70		64.00 mm					
				MD009625 MD115500	2	1.50	x	3.30	MD009580 MD009581	TOTAL CLEARANCE			-		-0.04 mm				
					3														
					O1	4.00	x	3.05			Measure for CYL Clearance				mm	19.00 mm			
					O2						from bottom of Skirt.								
															CirClip	SURFACE TREATMENT			
																	NONE	HEAD:	NONE
																	J05	SKIRT:	NONE
4G33 GASOLINE	4	1289	73.00	SWM30057ZZ	1	2.00	x	3.30	DISCONTINUE	73.00	68.70	32.70		64.00 mm					
				MD000770	2	2.00	x	3.30	MD002710 MD002851	TOTAL CLEARANCE			mm						
					3														
					O1	4.00	x	3.05			Measure for CYL Clearance				mm	19.00 mm			
					O2						from bottom of Skirt.								
															CirClip	SURFACE TREATMENT			
																	NONE	HEAD:	NONE
																		SKIRT:	NONE
G33B GASOLINE	4	1439	73.00	SWM31024ZZ	1	1.50	x	2.70	DISCONTINUE	73.00	71.00	33.00	+ 1.00	64.00 mm					
				MD034010 MD115500	2	1.50	x	3.30	MD009541	TOTAL CLEARANCE			mm						
					3														
					O1	4.00	x	3.20			Measure for CYL Clearance				mm	19.00 mm			
					O2						from bottom of Skirt.								
															CirClip	SURFACE TREATMENT			
																	NONE	HEAD:	NONE
																		SKIRT:	NONE
G33B GASOLINE	4	1439	73.00	SWM31024ZZ	1	1.50	x	2.70	DISCONTINUE	73.00	68.30	94.00	+ 0.30	64.00 mm					
				MD034010 MD115500	2	1.50	x	3.30	MD106535	TOTAL CLEARANCE			mm						
					3														
					O1	4.00	x	3.20			Measure for CYL Clearance				mm	19.00 mm			
					O2						from bottom of Skirt.								
															CirClip	SURFACE TREATMENT			
																	NONE	HEAD:	NONE
																		SKIRT:	NONE

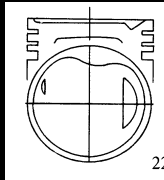
FORKLIFT & MEDIUM SIZE DIESEL ENGINES



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION												
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	PISTON PIN LENGTH								
FUEL				OEM #					OEM #					DIAMETER								
4G32 GASOLINE	4	1597	76.90	SWM31005ZZ	1	2.00	x	3.50	DISCONTINUE	76.90	70.50	33.50	-	0.50	64.00 mm							
										TOTAL CLEARANCE												
																	MD000725	MD004767	mm			
																	MD004709	MD008861	Measure for CYL Clearance			19.00 mm
																	MD004739		mm			
																	MD004770		from bottom of Skirt.			
																	MD005885					SURFACE TREATMENT
																	MD007251		CirClip			
																	MD008105		NONE			SKIRT: NONE
																	MD106741					
4G32 GASOLINE	4	1597	76.90	SWM31005ZZ	1	2.00	x	3.50	DISCONTINUE	76.90	70.50	33.50	-	2.80	64.00 mm							
										TOTAL CLEARANCE												
																	MD000725	MD004670	mm			
																	MD004709	MD004761	Measure for CYL Clearance			19.00 mm
																	MD004739		mm			
																	MD004770		from bottom of Skirt.			
																	MD005885					SURFACE TREATMENT
																	MD007251		CirClip			
																	MD008105		NONE			SKIRT: NONE
																	MD106741					
4G32 GASOLINE	4	1597	76.90	SWM31043ZZ	1	1.50	x	3.10	11-3024	76.90	68.00	34.00	-	2.40	64.00 mm							
										TOTAL CLEARANCE												
																	MD012765	MD105495	mm			
																	MD062387		Measure for CYL Clearance			19.00 mm
																	MD093337		mm			
																	MD099430		from bottom of Skirt.			
																						SURFACE TREATMENT
																			CirClip			
																			NONE			SKIRT: NONE
																			T05			
G32B GASOLINE	4	1597	76.90	SWM31005ZZ	1	2.00	x	3.50	DISCONTINUE	76.90	70.50	33.50	-	2.00	64.00 mm							
										TOTAL CLEARANCE												
																	MD000725	MD009521	mm			
																	MD004709		Measure for CYL Clearance			19.00 mm
																	MD004739		mm			
																	MD004770		from bottom of Skirt.			
																	MD005885					SURFACE TREATMENT
																	MD007251		CirClip			
																	MD008105		NONE			SKIRT: NONE
																	MD106741					



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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION								
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN				
						B mm	x	T mm		BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	LENGTH	DIAMETER			
FUEL				OEM #					OEM #									
G32B GASOLINE	4	1597	76.90	SWM31043ZZ MD012765 MD062387 MD093337 MD099430	1	1.50	x	3.10	DISCONTINUE	76.90	68.00	34.00	-	1.40	64.00 mm			
										TOTAL CLEARANCE								
										mm								
										Measure for CYL Clearance								
										mm								
										from bottom of Skirt.								
												CirClip					SURFACE TREATMENT	
																	NONE	HEAD: NONE
																	C17	SKIRT: NONE
										G32T GASOLINE	4	1597					76.90	SWM31043ZZ MD012765 MD062387 MD093337 MD099430
TOTAL CLEARANCE																		
mm																		
Measure for CYL Clearance																		
mm																		
from bottom of Skirt.																		
		CirClip	SURFACE TREATMENT															
			NONE	HEAD: NONE														
				SKIRT: NONE														
G32T GASOLINE	4	1597	76.90	SWM31043ZZ MD012765 MD062387 MD093337 MD099430	1	1.50	x	3.10	DISCONTINUE				76.90	70.50	33.50	-		
										TOTAL CLEARANCE								
										mm								
										Measure for CYL Clearance								
										mm								
										from bottom of Skirt.								
												CirClip	SURFACE TREATMENT					
													NONE	HEAD: NONE				
														SKIRT: NONE				
										4G52 GASOLINE	4	1995	84.00	SWM30074ZZ MD021010 MD021035 MD021070	1		2.00	x
TOTAL CLEARANCE																		
mm																		
Measure for CYL Clearance																		
mm																		
from bottom of Skirt.																		
		CirClip	SURFACE TREATMENT															
			NONE	HEAD: NONE														
				SKIRT: NONE														

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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION							
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	PISTON PIN LENGTH			
FUEL				OEM #					OEM #					DIAMETER			
mitsubishi																	
G52B	4	1995	84.00	SWM30074ZZ	1	2.00	x	3.60	DISCONTINUE	84.00	79.50	40.00					
GASOLINE				MD021010 MD021035 MD021070	2	2.00	x	3.70	MD021192	TOTAL CLEARANCE			75.00 mm				
					3					mm							
					O1	4.00	x	3.80		Measure for CYL Clearance				22.00 mm			
					O2					mm							
										from bottom of Skirt.							
										CirClip	SURFACE TREATMENT						
										NONE	HEAD:	NONE					
												SKIRT:	NONE				
4G63	4	1997	85.00	SWM31048ZZ	1	2.00	x	3.60	11-540	85.00	67.00	35.00	-	2.10	66.00 mm		
GASOLINE				MD133185	2	2.00	x	3.70	MD1292242	TOTAL CLEARANCE			66.00 mm				
					3					-0.04 mm							
					O1	4.00	x	3.80		Measure for CYL Clearance				21.00 mm			
					O2					10.00 mm							
										from bottom of Skirt.							
										CirClip	SURFACE TREATMENT						
										NONE	HEAD:	NONE					
												C17	SKIRT:	NONE			
4G63	4	1997	85.00	SWM31048ZZ	1	2.00	x	3.60	11-546	85.00	67.00	35.00	-	5.40	66.00 mm		
GASOLINE				MD133185	2	2.00	x	3.70	MD129232	TOTAL CLEARANCE			66.00 mm				
					3					-0.04 mm							
					O1	4.00	x	3.80		Measure for CYL Clearance				21.00 mm			
					O2					26.00 mm							
										from bottom of Skirt.							
										CirClip	SURFACE TREATMENT						
										NONE	HEAD:	NONE					
												J05	SKIRT:	NONE			
4G63	4	1997	85.00	SWM31048ZZ	1	2.00	x	3.60	DISCONTINUE	85.00	67.00	35.40	-	4.70	62.00 mm		
GASOLINE				MD133185	2	2.00	x	3.70	MD190244	TOTAL CLEARANCE			62.00 mm				
					3					mm							
					O1	4.00	x	3.80		Measure for CYL Clearance				22.00 mm			
					O2					mm							
										from bottom of Skirt.							
										CirClip	SURFACE TREATMENT						
										NONE	HEAD:	NONE					
												SKIRT:	NONE				

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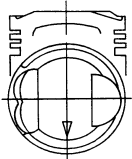
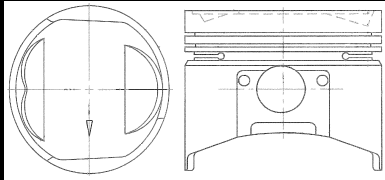
NOA PISTON RING SPECIFICATION							NOA PISTON SPECIFICATION											
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B x T mm	PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH						
FUEL				OEM #			OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER						
4G63 GASOLINE	4	1997	85.00	SWM31048ZZ	1	1.20	x	3.60	DISCONTINUE	85.00	67.00	35.00	-	1.70	62.00 mm			
				MD133185	2	1.50	x	3.70	MD188289	TOTAL CLEARANCE				62.00 mm				
					3					mm								
					O1	3.00	x	3.80		Measure for CYL Clearance				22.00 mm				
					O2					mm								
														from bottom of Skirt.				
														CirClip				SURFACE TREATMENT
														NONE				HEAD: NONE
																		SKIRT: NONE
4G63 GASOLINE	4	1997	85.00	SWM31071ZZ	1	1.20	x	3.10	11-718	85.00	67.00	35.00	-	2.20	62.00 mm			
				MD195850	2	1.50	x	3.80	MD190262	TOTAL CLEARANCE				62.00 mm				
					3					-0.04 mm								
					O1	3.00	x	2.55		Measure for CYL Clearance				22.00 mm				
					O2					10.00 mm								
														from bottom of Skirt.				
														CirClip				SURFACE TREATMENT
														NONE				HEAD: NONE
														T01				SKIRT: NONE
4G63 GASOLINE	4	1997	85.00	SWM31071ZZ	1	1.20	x	3.10	11-719	85.00	67.00	35.00	-	5.40	62.00 mm			
				MD195850	2	1.50	x	3.80	MD308200	TOTAL CLEARANCE				62.00 mm				
					3					-0.04 mm								
					O1	3.00	x	2.55		Measure for CYL Clearance				22.00 mm				
					O2					10.00 mm								
														from bottom of Skirt.				
														CirClip				SURFACE TREATMENT
														NONE				HEAD: NONE
														C17				SKIRT: NONE
G63B GASOLINE	4	1997	85.00	SWM31013ZZ	1	2.00	x	3.60	11-027	85.00	72.20	35.20	-	5.20	72.00 mm			
				MD040640 MD040840 MD042580	2	2.00	x	3.70	MD040591	TOTAL CLEARANCE				72.00 mm				
					3					-0.04 mm								
					O1	4.00	x	3.25		Measure for CYL Clearance				21.00 mm				
					O2					10.00 mm								
														from bottom of Skirt.				
														CirClip				SURFACE TREATMENT
														NONE				HEAD: NONE
														J05				SKIRT: NONE

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NOA PISTON RING SPECIFICATION							NOA PISTON SPECIFICATION						
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B x T mm	PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL				OEM #			OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
MITSUBISHI													
G63B	4	1997	85.00	SWM31013ZZ	1	2.00 x 3.60	11-3042	85.00	74.00	35.00	+	2.00	
GASOLINE				MD040640 MD040840 MD042580	2	2.00 x 3.70	MD040821	TOTAL CLEARANCE				72.00 mm	
			3					-0.04 mm					
			O1		4.00 x 3.25	Measure for CYL Clearance				21.00 mm			
			O2			mm from bottom of Skirt.							
							 174		CirClip	SURFACE TREATMENT			
											NONE	HEAD: NONE	
											T05	SKIRT: NONE	
G63T	4	1997	85.00	SWM31013ZZ	1	2.00 x 3.60	DISCONTINUE	85.00	82.00	35.00	-	2.70	
GASOLINE				MD040640 MD040840 MD042580	2	2.00 x 3.70	MD041641	TOTAL CLEARANCE				72.00 mm	
			3					mm					
			O1		4.00 x 3.25	Measure for CYL Clearance				21.00 mm			
			O2			mm from bottom of Skirt.							
									CirClip	SURFACE TREATMENT			
											NONE	HEAD: NONE	
												SKIRT: NONE	
G63B	4	1997	85.00	SWM31034ZZ	1	1.50 x 3.50	11-539	85.00	72.00	35.20	-	5.00	
GASOLINE				MD100467	2	1.50 x 3.80	MD100372	TOTAL CLEARANCE				72.00 mm	
			3					-0.04 mm					
			O1		4.00 x 3.30	Measure for CYL Clearance				21.00 mm			
			O2			10.00 mm from bottom of Skirt.							
							 J05		CirClip	SURFACE TREATMENT			
											NONE	HEAD: NONE	
											J05	SKIRT: NONE	
4G64	4	2350	86.50	SWM31037ZZ	1	1.50 x 3.50	DISCONTINUE	86.50	73.00	35.00	+	1.00	
GASOLINE				MD085346	2	1.50 x 3.80	MD068759	TOTAL CLEARANCE				72.00 mm	
			3					mm					
			O1		4.00 x 3.30	Measure for CYL Clearance				21.00 mm			
			O2			mm from bottom of Skirt.							
									CirClip	SURFACE TREATMENT			
											NONE	HEAD: NONE	
												SKIRT: NONE	

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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION								
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION				PISTON PIN				
										BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	LENGTH	DIAMETER			
FUEL				OEM #					OEM #									
4G64 GASOLINE	4	2350	86.50	SWM31037ZZ	1	1.50	x	3.50	11-538 MD105377	86.50	72.40	34.90	+	0.50	72.00 mm			
				MD085346	2	1.50	x	3.80		TOTAL CLEARANCE				+ 0.30		21.00 mm		
					3					-0.04 mm								
					O1	4.00	x	3.30		Measure for CYL Clearance				15.00 mm from bottom of Skirt.				
					O2													
															CirClip	SURFACE TREATMENT		
																NONE	HEAD:	NONE
																c17	SKIRT:	NONE
				4G64 GASOLINE	4	2350	86.50	SWM31072ZZ		1	1.20	x	3.10	11-536 MD1988998	86.50	67.40	35.00	+
MD195872	2	1.50	x					3.80	TOTAL CLEARANCE				+ 0.40		22.00 mm			
	3								-0.04 mm									
	O1	3.00	x					2.55	Measure for CYL Clearance				10.00 mm from bottom of Skirt.					
	O2																	
													CirClip		SURFACE TREATMENT			
															NONE	HEAD:	NONE	
															c17	SKIRT:	NONE	
4G64 GASOLINE	4	2350	86.50					SWM31116ZZ	1	1.20	x	3.10	11-709 MD303071		86.50	67.10	35.00	-
				MD195828	2	1.50	x	3.80	TOTAL CLEARANCE						22.00 mm			
					3				-0.02 mm									
					O1	2.80	x	2.55	Measure for CYL Clearance					14.00 mm from bottom of Skirt.				
					O2													
															CirClip	SURFACE TREATMENT		
																NONE	HEAD:	NONE
																T01	SKIRT:	NONE
				4G54 GASOLINE	4	2555	91.10	SWM31039ZZ	1	1.50	x	3.30		DISCONTINUE MD080394	91.10	77.20	35.20	-
MD061258 MD076170 MD101895 MD106752	2	1.50	x					3.80	TOTAL CLEARANCE						22.00 mm			
	3								mm									
	O1	4.00	x					3.25	Measure for CYL Clearance				mm from bottom of Skirt.					
	O2																	
													CirClip		SURFACE TREATMENT			
															NONE	HEAD:	NONE	
																SKIRT:	NONE	

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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION								
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING B mm	x	T mm	PISTON PART #	PISTON INFORMATION BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	PISTON PIN LENGTH				
FUEL				OEM #					OEM #					DIAMETER				
G54B GASOLINE	4	2555	91.10	SWM31047ZZ	1	2.00	x	3.50	DISCONTINUE	91.10	77.20	35.00	-	5.00	79.00 mm			
					2	2.00	x	3.80		TOTAL CLEARANCE								
					3							MD024947	mm					
					O1	4.00	x	3.25				MD024991	Measure for CYL Clearance				22.00 mm	
					O2							MD026861	mm					
													from bottom of Skirt.					
																		SURFACE TREATMENT
																		CirClip
																		NONE
																		HEAD: NONE
														SKIRT: NONE				
G54B GASOLINE	4	2555	91.10	SWM31047ZZ	1	2.00	x	3.50	11-031	91.10	77.20	35.20		75.00 mm				
					2	2.00	x	3.80		TOTAL CLEARANCE								
					3							MD026921	-0.04 mm					
					O1	4.00	x	3.25					Measure for CYL Clearance					
					O2								10.00 mm			22.00 mm		
													from bottom of Skirt.					
																		SURFACE TREATMENT
																		CirClip
																		NONE
																		HEAD: NONE
														SKIRT: NONE				
G54B GASOLINE	4	2555	91.10	SWM31039ZZ	1	1.50	x	3.30	11-035	91.10	78.30	36.00	+	0.30	79.00 mm			
					2	1.50	x	3.80		TOTAL CLEARANCE								
					3							MD071172	-0.04 mm					
					O1	4.00	x	3.25					Measure for CYL Clearance					
					O2								25.00 mm			22.00 mm		
													from bottom of Skirt.					
																		SURFACE TREATMENT
																		CirClip
																		NONE
																		HEAD: NONE
														SKIRT: NONE				
G54B GASOLINE	4	2555	91.10	SWM31039ZZ	1	1.50	x	3.30	DISCONTINUE	91.10	77.20	35.20	-	5.00	79.00 mm			
					2	1.50	x	3.80		TOTAL CLEARANCE								
					3							MD061248	mm					
					O1	4.00	x	3.25				MD128450	Measure for CYL Clearance					
					O2								mm			22.00 mm		
													from bottom of Skirt.					
																		SURFACE TREATMENT
																		CirClip
																		NONE
																		HEAD: NONE
														SKIRT: NONE				

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NOA PISTON RING SPECIFICATION										NOA PISTON SPECIFICATION					
ENGINE MODEL	C Y L	ENGINE SIZE CC	DIA mm	PISTON RING PART #	P S T	PISTON RING			PISTON PART #	PISTON INFORMATION				PISTON PIN LENGTH	
FUEL				OEM #		B mm	x	T mm	OEM #	BORE mm	LENGTH mm	COMP. mm	+ DIST. mm	DIAMETER	
MITSUBISHI															
G54B	4	2555	91.10	SWM31047ZZ	1	2.00	x	3.50	DISCONTINUE	91.10	77.20	35.20	-	5.00	79.00 mm
GASOLINE					2	2.00	x	3.80		TOTAL CLEARANCE					
				MD025089	3				MD026781	mm					
				MD026835	O1	4.00	x	3.25	MD026940	Measure for CYL Clearance				22.00 mm	
				MD026920	O2					mm					
				MD027140						from bottom of Skirt.					
				MD107813											
			MD107818												
															SURFACE TREATMENT
															HEAD: NONE
															SKIRT: NONE