

5.4000A FAN

PART			COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		5.4015 - PULLEY AND HUB ASSY., FAN														
	5122868	PULLEY ASSY.	1													
	5122869	PULLEY ASSY.		1												
	5122870	PULLEY ASSY.			1											
	5126241	# PULLEY ASSY.				1										
	5126242	# PULLEY ASSY.					1									
	5126502	PULLEY ASSY.						1								
	5132601	PULLEY ASSY.							1							
	5170456	# PULLEY ASSY.								1		1				
	5148441	PULLEY ASSY.											1			
		# NOT SERVICED. SHOWN FOR COMPONENT REFERENCE ONLY.														
		5.4090 - BRACKET, FAN SHAFT														
4A	5116477	BRACKET	1	1	1		1									
4A	5126203	# BRACKET				1	1					1				
4A	5126501	BRACKET						1								
4A	5133063	BRACKET							1							
4A	5140234	BRACKET									1					
		# NOT SERVICED. SHOWN FOR COMPONENT REFERENCE ONLY. REFER TO 5.4015 IN TYPE FOR ASSY. REPLACEMENT.														
		5.4100 - SHAFT, FAN														
		A SHAFT ASSY. INCLUDES BEARINGS.														
4A	905619	* SHAFT ASSY.	1	1	1	1	1	1	1	1						
4A	908141	SHAFT ASSY.										1				
		* NOT SERVICED. FOR SERVICE USE 8922500 BEARING ASSY.														
		5.4235 - HUB, FAN														
4A	5148420	PULLEY, 4.30" DIA. (2 GROOVES)	1				1	1			1					
4A	5116483	PULLEY, 5.38" DIA. (2 GROOVES)		1		1			1	1						
4A	5119191	PULLEY, 6.34" DIA. (2 GROOVES)			1											

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			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
5.4015 - PULLEY AND HUB ASSY., FAN															
	5170472	PULLEY ASSY.	1												
	5123279	* PULLEY ASSY.		1											
	5123335	* PULLEY ASSY.			1										
	5125116	* PULLEY ASSY.				1									
	5129637	* PULLEY ASSY.					1								
	5137478	* PULLEY ASSY.						1							
	5134458	PULLEY ASSY.							1						
	5140790	PULLEY ASSY.								1					
* NOT SERVICED, SHOWN FOR COMPONENT REFERENCE ONLY.															
5.4090 - BRACKET, FAN SHAFT															
4A	5140234	BRACKET	1												
4A	5123197	* BRACKET		1	1	1	1								
4A	5126501	BRACKET						1							
4A	5134503	BRACKET							1						
4A	5140845	BRACKET								1					
* OBSOLETE.															
5.4100 - SHAFT, FAN															
A SHAFT ASSY. INCLUDES BEARING.															
4A	905619	% SHAFT ASSY.	1					1	1	1					
4A	954604	SHAFT ASSY.		1	1	1	1								
% NOT SERVICED, FOR SERVICE USE 8922500 BEARING ASSY.															
5.4235 - PULLEY, FAN															
4A	5112152	+ PULLEY, 33.16" DIA. (2 GROOVES)					1								
4A	5123552	PULLEY, 4.30" DIA. (2 GROOVES)			1										
4A	5121226	+ PULLEY, 4.40" DIA. (1 GROOVE)		1											
4A	5125114	+ PULLEY, 4.40" DIA. (2 GROOVES)				1									
4A	5148420	PULLEY, 4.30" DIA. (2 GROOVES)	1								1				
4A	5137517	PULLEY, 4.30" DIA. (2 GROOVES)						1							
4A	5134230	PULLEY, 6.34" DIA. (2 GROOVES)							1						
+ OBSOLETE.															

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PART			COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
5.4015 - PULLEY AND HUB ASSY., FAN																
	5131207	* PULLEY ASSY.	1													
	5131208	* PULLEY ASSY.		1												
	5131209	* PULLEY ASSY.			1											
	5131210	* PULLEY ASSY.				1										
	5131211	* PULLEY ASSY.					1									
	5132421	* PULLEY ASSY.						1								
	5162786	* PULLEY ASSY.							1							
	5136886	PULLEY ASSY.								1						
	5139641	* PULLEY ASSY.									1					
		* NOT SERVICED, SHOWN FOR COMPONENT REFERENCE ONLY.														
5.4090 - BRACKET, FAN SHAFT																
4C	5196863	* BRACKET (INCLUDES SHAFT & RETAINER)						1								
	5100201	@ BRACKET (W/INTEGRAL SHAFT) (5.4100)	1	1	1	1	1				1					
4A	5127071	* BRACKET							1							
4A	5116477	BRACKET								1						
	186725	BOLT, 1/2"-13X1 1/2" (12.9001)						2								
	103343	WASHER, 1/2" (12.9190)						2								
	103323	LOCKWASHER, 1/2" (12.9200)						2								
		* OBSOLETE														
		@ NOT SERVICED, REFER TO 5.4015 IN TYPE FOR ASSY. REPLACEMENT														
5.4100 - SHAFT, FAN																
4B	5162783	* SHAFT							1							
4A	905619	@ SHAFT (INCLUDES BEARING)								1						
	907278	BEARING (INNER)						1								
	908002	BEARING (OUTER)						1								
	103385	PIN, 1/8"X1 1/4" COTTER (12.9250)						1	1							
	142534	* PIN, 5/16"X1 3/4" GROOVE (12.9270)							1							
	5130823	* NUT, 1/2"-20 SLOTTED							1							
	122797	NUT, 5/8"-18 SLOTTED (12.9130)						1								
		* OBSOLETE														
		@ NOT SERVICED, FOR SERVICE USE 8922500 BEARING ASSY.														
5.4110 - BEARING, FAN SHAFT																
4C	9415132	BEARING ASSY. (FRONT)	1	1	1	1	1					1				
4C	7450630	BEARING (REAR)	1	1	1	1	1					1				
4C	7451373	* BEARING (REAR)							1							
4C	7451077	* BEARING (FRONT)							1							
	5131095	SHIM (.015")	1	1	1	1	1					1				
	5133467	* SHIM (.005")							AR							
	5133466	* SHIM (.010")							AR							

5 3 M P C E N G I N E S

DETROIT DIESEL

5.4000A FAN

PART FIG . . . NUMBER NAME AND DESCRIPTION		COLUMN													
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
5.4110 - BEARING, FAN SHAFT (CONT'D)															
5131124	SHIM (.015")	AR	AR	AR	AR	AR				AR					
5131205	SHIM (.020")	AR	AR	AR	AR	AR				AR					
5131206	SHIM (.025")	AR	AR	AR	AR	AR				AR					
* OBSOLETE															
5.4140 - RETAINER, FAN SHAFT BEARING															
5130822	WASHER, 33/64" X 1 1/16" X 1/8"							1							
5131123	WASHER, 33/64" X 1 1/2" X .32"	1	1	1	1	1				1					
9409060	BOLT, 1/2"-20X1 1/2" LOCK (12.9001)	1	1	1	1	1				1					
274746	RING, LOCK (5.4235)						1								
5188194	RING, SNAP (1.350" I.D.)						1								
5.4150 - SEAL, FAN SHAFT															
4C 5108219	SEAL	1	1	1	1					1					
4C 5100408	SEAL					1									
4C 5127119	* SEAL							1							
* OBSOLETE															
5.4170 - SPACER, FAN SHAFT BEARING															
5131122	SPACER	1	1	1	1	1				1					
5133370	* SPACER							2							
* OBSOLETE															
5.4180 - CAP AND SPACER, FAN HUB															
5144798	CAP (PULLEY)	1			1	1									
5107293	CAP (PULLEY)		1	1			1								
5103882	CAP (PULLEY)							1							
5.4235 - PULLEY, FAN															
4C 5130029	@ PULLEY, 4.90" DIA. (2 GROOVES)	1													
4C 5127042	* PULLEY, 5.38" DIA. (2 GROOVES)							1							
4C 5136620	PULLEY, 5.38" DIA. (2 GROOVES)								1						
4C 5109639	PULLEY, 5.68" DIA. (2 GROOVES)					1									
4C 5100208	= PULLEY, 6.25" DIA. (2 GROOVES)		1												
4C 5100209	# PULLEY, 7.50" DIA. (2 GROOVES)			1											
4C 5108233	? PULLEY (HUB) 7.50" DIA. (3 GROOVES)						1								
4C 5139738	@ PULLEY, 6.25" DIA. (POLY. V GROOVES)									1					

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		COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		5.4235 - PULLEY, FAN (CONT'D)													
4C	5100210	@ PULLEY, 9.75" DIA. (2 GROOVES) = NOT SERVICED, USE (1) EACH 5101000 PULLEY, 5100916 CAP, 455322 FITTING AND 9411010 FITTING. # NOT SERVICED, USE (1) EACH 5100919 PULLEY, 5100916 CAP, 455322 FITTING AND 9411010 FITTING. * OBSOLETE @ NOT SERVICED, REFER TO 5.4015 IN TYPE FOR ASSY. REPLACEMENT. ? NOT SERVICED, USE 5103967.				1									

5.4000A FAN

			COLUMN												
PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			A	B	C	D	E	F	G	H	I	J	K	L	M
5.4015 - PULLEY AND HUB ASSY., FAN															
5145534	*	PULLEY ASSY.	1												
5145535	*	PULLEY ASSY.		1											
5147085		PULLEY ASSY.			1										
5147082		PULLEY ASSY.				1									
5147084	*	PULLEY ASSY.					1								
5100984	*	PULLEY ASSY.						1							
5100985	*	PULLEY ASSY.							1						
5147083		PULLEY ASSY.								1					
5100988	*	PULLEY ASSY.									1				
5105127	*	PULLEY ASSY.											1		
* NOT SERVICED, SHOWN FOR COMPONENT REFERENCE ONLY.															
5.4090 - BRACKET, FAN SHAFT															
5103381		BRACKET	1	1									1		
5146864		BRACKET			1	1									
5146867	+	BRACKET					1								
5100201	*	BRACKET (INCLUDES INTERGAL SHAFT) (5.4100)							1	1		1			
5146865		BRACKET									1				
* NOT SERVICED, REFER TO 5.4015 IN TYPE FOR ASSY. REPLACEMENT.															
+ OBSOLETE.															
5.4110 - BEARING, FAN SHAFT															
4C 7450630		BEARING	1	1	1	1	1	1	1	1	1	1	1	1	1
4C 9415132		BEARING ASSY.	1	1	1	1	1	1	1	1	1	1	1	1	1
4C 5131095		RETAINER, GREASE	1	1	1	1	1				1			1	
5131124		SHIM (.15")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
5131205		SHIM (.20")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
5131206		SHIM (.25")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
5.4140 - RETAINER, FAN SHAFT BEARING															
5131122		SPACER, BEARING (5.4170)	1	1	1	1	1	1	1	1	1	1	1	1	1
5131123		WASHER, 33/64"X1 1/2"X.32"	1	1	1	1	1	1	1	1	1	1	1	1	1
9409060		BOLT, 1/2"-20X1 1/2" LOCK (12.9001)	1	1	1	1	1	1	1	1	1	1	1	1	1
5.4150 - SEAL, FAN SHAFT															
4C 5108219		SEAL	1												
4C 5100408		SEAL		1	1	1	1				1	1	1		

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[illegible]

5107293	CAP (PULLEY)
5100915	CAP (W/ 1/8" PIPE THREAD)
5144798	CAP (PULLEY)
455322	FITTING, LUBE RELIEF (12.9540)

IC	5109639	PULLEY, 5.68" DIA. (2 GROOVES)	
IC	5145376	PULLEY, 4.30" DIA. (2 GROOVES)	
IC	5101000	PULLEY, 6.25" DIA. (2 GROOVES)	
IC	5100919	* PULLEY, 7.50" DIA. (2 GROOVES)	
IC	5100990	* PULLEY, 7.50" DIA. (3 GROOVES)	
	5103347	PULLEY, 4.50" DIA. (2 GROOVES)	
	191758	FITTING, 1/8" LUBE (STRAIGHT)	
		(12.9540)	
		* NOT SERVICED, REFER TO 5.4015 IN	
		TYPE FOR ASSY. REPLACEMENT.	

[illegible]

5.4000A FAN

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..		COLUMN													
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
5.4015 - PULLEY AND HUB ASSY., FAN															
5103345	PULLEY ASSY.	1													
5103347	PULLEY ASSY.		1												
5103418	PULLEY ASSY.			1											
5103512	PULLEY ASSY.				1										
5103594	PULLEY ASSY.					1									
5103346	PULLEY ASSY.						1								
5103349	PULLEY ASSY.							1							
5103352	PULLEY ASSY.								1						
5149517	PULLEY ASSY.									1					
5103350	PULLEY ASSY.										1				
8921168	PULLEY ASSY.											1			
5104361	PULLEY ASSY.												1		
5.4090 - BRACKET, FAN SHAFT															
5103370	+ BRACKET	1	1	1		1	1	1			1				
5103381	BRACKET				1				1			1			
5140845	BRACKET									1					
	+ NOT SERVICED, FOR SERVICE USE 5102381 AND 7455596.														
5.4100 - SHAFT, FAN															
905619	+ SHAFT ASSY.									1					
5102381	SHAFT										1				
5100933	SHAFT													1	
	+ NOT SERVICED, FOR SERVICE USE 8922500 BEARING ASSY.														
5.4110 - BEARING, FAN SHAFT															
7450630	BEARING					1				1			1		
9415132	BEARING ASSY.					1				1			1		
7455596	BEARING	1	1	1		1	1	1			1		1	1	
903206	BEARING	1	1	1		1	1	1			1		1	1	
5131095	RETAINER, GREASE				1				1			1			
5131124	SHIM (.15")				AR				AR			AR			
5131205	SHIM (.20")				AR				AR			AR			
5131206	SHIM (.25")				AR				AR			AR			
5.4140 - RETAINER, FAN SHAFT BEARING															
5131122	SPACER, BEARING (5.4170)				1				1			1			
5104317	WASHER, 2.22" O.D. (5.4235)	1	1	1		1	1	1			1		1		
5131123	WASHER, 33/64"X1 1/2"X.32"				1				1			1			
9422755	RING, BEVELED SNAP	1	1	1		1	1	1			1		1	1	
9409060	BOLT, 1/2"-20X1 1/2" LOCK (12.9001)	1	1	1	1	1	1	1	1		1	1	1	1	
5.4150 - SEAL, FAN SHAFT															
5100408	SEAL (FELT)				1				1			1			
5103951	SEAL	1	1	1		1	1	1			1		1		

DETROIT DIESEL

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5.4000A FAN

PART
FIG ... NUMBER ... NAME AND DESCRIPTION

			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
5.4180 - CAP AND SPACER, FAN HUB																
	5100890	CAP (PULLEY)	1	1	1		1	1	1			1		1		
	5107293	CAP (PULLEY)				1										
	5144798	CAP				1				1						
	5100915	CAP (W/1/8" PIPE THREAD)											1			
	5100914	CAP (DUST)													1	
	455322	FITTING, LUBE RELIEF (12.9540)	1	1	1		1	1	1			1	1	1		
5.4235 - HUB, FAN																
C	5103371	PULLEY, 6.25" DIA. (2 GROOVES)	1													
C	5103373	PULLEY, 4.90" DIA. (2 GROOVES)		1												
C	5103456	PULLEY, 6.25" DIA. (POLY. V GROOVES)			1											
C	5109639	PULLEY, 5.68" DIA. (2 GROOVES)				1										
C	5104329	PULLEY, 7.50" DIA. (3 GROOVES)					1									
C	5103372	PULLEY, 7.50" DIA. (2 GROOVES)						1								
C	5103374	PULLEY, 9.75" DIA. (2 GROOVES)							1							
C	5145376	PULLEY, 4.30" DIA. (2 GROOVES)								1						
C	5116483	PULLEY, 5.38" DIA. (2 GROOVES)									1					
C	5103375	PULLEY, 5.38" DIA. (2 GROOVES)										1				
C	5101000	PULLEY, 6.25" DIA. (2 GROOVES)											1			
C	5104328	PULLEY, 6.25" DIA (3 GROOVES)													1	
C	191758	FITTING, 1/8" LUBE (12.9540)	1	1	1		1	1	1			1	1	1		

DETROIT DIESEL

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5.4000B FAN SHROUD

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	5 3	5 9	6 0	6 6	7 9								
		5.4560 - SHROUD, FAN													
	5108922	SHROUD ASSY.	1												
	5140955	SHROUD ASSY.				1									
		5.4580 - GUARD, FAN													
	5198100	GUARD		1											
	5198101	GUARD			1										
	5109463	GUARD ASSY.	1			1	1								
	443603	BOLT, 1/4"-20X3/4" (12.9001)	6			6	6								
	179816	BOLT, 5/16"-18X3/4" (12.9001)	2				2								
	186625	BOLT, 5/16"-18X7/8" (12.9001)				2									
	120392	WASHER, 9/32" (12.9190)	6			6	6								
	120393	WASHER, 11/32" (12.9190)	4			2	4								
	103319	LOCKWASHER, 1/4" (12.9200)	6	4	4	6	6								
	103320	LOCKWASHER, 5/16" (12.9200)	2			2	2								
	5170058	NUT, 1/4" SPEED	6			6	6								
	120375	NUT, 1/4"-20 (12.9120)		4	4										

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART		NAME AND DESCRIPTION	TYPES											
FIG	NUMBER		2 9 1	2 9 3	2 9 4	2 9 5	2 9 9	3 0 0	3 0 1	3 0 3	3 0 4	3 0 5	3 1 4	3 1 6
5.5001 - TANK, EXPANSION														
A,B	5125027	TANK, 2,3,4,6V53	1	1	1	1	1	1	1				1	
C	5126347	TANK, 2-53									1	1	1	
	113175	PLUG, 1/8" PIPE BRASS (12.9550)	2	2	2	2	2	2	2				2	
	112304	PLUG, 3/8" PIPE BRASS (12.9550)								1	1			
	5115214	PLUG, 1/2" PIPE (12.9550)	1	1	1	1	1	1	1				1	
C	5111798	PLUG, 1" PIPE (12.9550)								1	1			
	5127034	PLUG, 1 1/8" DIA. CUP										1		
	5109157	PLUG, 1 1/4" DIA. CUP	1	1	1	1	1	1	1				1	
C	103196	STUD, 3/8"-16-24X1 9/16" (12.9117)									4	4	4	
	5150023	COVER (HEAT EXCHANGER WATER HOLE) (1.1060)						1	1					
	5116357	GASKET (HEAT EXCHANGER WATER HOLE COVER) (1.1070)						1	1					
	186618	BOLT, 5/16"-18X5/8" (12.9001)						2	2					
	103320	LOCKWASHER, 5/16" (12.9200)						2	2					
5.5003 - CORE, HEAT EXCHANGER														
A,B	8509553	CORE, 3,4,6V53	1	1		1	1	1		1			1	
C	8529617	CORE ASSY., 2-53 (INCLUDES ELECTRODE)									1	1		
5.5010 - ELECTRODE, HEAT EXCHANGER														
A,B	8515850	ELECTRODE ASSY., 3, 4, 6V53 (INCLUDES 3 3/8" ELECTRODE)	1	1		1	1	1		1			1	
A,B	8515851	ELECTRODE, 3, 4, 6V53 (3 3/8" L)	1	1		1	1	1		1			1	
A,B	8517473	ELECTRODE ASSY., 2, 3, 4-53 (INCLUDES 1 1/4" ELECTRODE)	1	1		1	1				1	1	1	
A,B	8517474	ELECTRODE, 2, 3, 4-53 (1 1/4" L)	1	1			1				1	1	1	
5.5025 - RETAINER, HEAT EXCHANGER SEAL														
A,B	5167766	RETAINER, 3,4,6V53	1	1		1	1	1		1			1	
5.5026 - SEAL, HEAT EXCHANGER														
A,B	5167746	SEAL, 3,4,6V53	2	2		2	2	2		2			2	
5.5027 - GLAND, HEAT EXCHANGER SEAL RETAINER														
A,B	5167746	GLAND, 3,4,6V53	1	1		1	1	1		1			1	

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	2 9 1	2 9 3	2 9 4	2 9 5	2 9 9	3 0 0	3 0 1	3 0 3	3 0 4	3 0 5	3 1 4	3 1 6
5.5030 - COVER, HEAT EXCHANGER														
6A,B	5146276	COVER, 3,4,6V53 (INLET)	1	1		1	1	1		1				1
6A,B	5167741	COVER, 3,4,6V53 (OUTLET)	1	1		1	1	1		1				1
6A,B	5186976	COVER, 4,6V53 (BLANK)			1				1					
6A,B	5121893	COVER, 4,6V53 (INLET) (5.5440)							1					
6A,B	5125655	COVER, 4,6V53 (REAR)			1				1					
6A	5127028	COVER, 2-53											2	
	5117674	COVER, 4,6V53 (INLET)			1									
	103647	DRAINCOCK, 1/4" (12.9510)	1	1		1	1			1				1
	113175	PLUG, 1/8" PIPE (12.9550)	2	2		2	2	2		2				2
	112578	PLUG, 1/4" PIPE (12.9550)	1	1		1	1	1		1				1
	113177	PLUG, 3/4" PIPE BRASS (12.9550)	1	1		1	1			1				
	186625	BOLT, 5/16"-18X7/8" (12.9001)			2				2					
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	10	10	20	10	10	10	20	10				10
	179826	BOLT, 5/16"-18X2" (12.9001)		10		10		10		10				10
	179839	BOLT, 3/8"-16X1" (12.9001)											4	
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR				AR
	103321	LOCKWASHER, 3/8" (12.9200)											4	
	117049	NUT, 3/8"-24 (12.9190)											4	
5.5050 - GASKET, HEAT EXCHANGER														
6A,B	5167764	GASKET, 3,4,6V53	3	3		3	3	3		3				3
6A,B	5167764	GASKET, 4,6V53			2				2					
6A,B	5119206	GASKET, 4,6V53 (6.1110)			1				1					
6C	5156147	GASKET, 2-53									1	1	1	
6A	5127052	GASKET, 2-53											2	
5.5070 - BRACKET, HEAT EXCHANGER MOUNTING														
6A	5119158	BRACKET, UPPER 3,4-53	1	1	1	1	1			1				1
	5124944	* BRACKET, LOWER 3,4-53	1	1	1	1	1			1				1
	5125212	+ BRACKET, UPPER 6V53						1	1					
	5125213	+ BRACKET, LOWER 6V53						1	1					
	5124998	- SUPPORT, 2-53												
	5150744	STUD (5/16"-18-24X1 1/4") (5.1020)									1	1	1	
	5156405	# SPACER	2	2	2	2	2			2	6	6	6	
	454813	BOLT, 3/8"-16X7/8" (12.9001)												2
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)	4	4	4	4	4			4				4
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)						2	2		2	2	2	
	454906	* BOLT, 3/8"-16X1 1/2" (12.9001)			2									
	454813	* BOLT, 3/8"-16X1 7/8" (12.9001)	2	2		2	2			2				
	106288	* BOLT, 3/8"-16X2 1/4" (12.9001)	2	2	2	2	2			2				
	455537	# BOLT, 3/8"-16X4" (12.9001)	2	2	2	2	2			2				
	106288	BOLT, 3/8"-24X2 1/4" (12.9001)												2
	103320	LOCKWASHER, 5/16" (12.9200)									6	6		
	103321	LOCKWASHER, 3/8" (12.9200)												AR
	114493	NUT, 5/16"-24 (12.9120)									6	6		

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	2 9 1	2 9 3	2 9 4	2 9 5	2 9 9	3 0 0	3 0 1	3 0 3	3 0 4	3 0 5	3 1 4	3 1 6
		5.5070 - BRACKET, HEAT EXCHANGER MOUNTING (CONT'D)												
	117049	NUT, 3/8"-24 (12.9120) * THRU 3D-268, 4D-644. + OBSOLETE. # EFFECTIVE WITH 3D-269, 4D-645.												2
		5.5080 - GASKET, HEAT EXCHANGER MOUNTING BRACKET												
A	5116212	GASKET, 3,4,6V53 (BRACKET TO TANK)	1	1	1	1	1	1	1	1				1
A	5116242	GASKET, 3,4-53 (BRACKET TO HEAD) (1.2044)	1	1		1	1			1				1
A	5175882	* GASKET, 3,4-53 (SPACER TO FRONT COVER) (4.4115) * EFFECTIVE WITH 3D-269, 4D-645.	2	2	2	2	2			2				
		5.5120 - NECK, EXPANSION TANK FILLER												
	5118060	NECK, 2,3,4,6V53	1	1	1	1	1	1	1	1	1	1	1	1
		5.5130 - GASKET, EXPANSION TANK FILLER NECK												
	5118061	GASKET, 2,3,4,6V53	1	1	1	1	1	1	1	1	1	1	1	1
		5.5140 - CAP, EXPANSION TANK FILLER												
A,B	850795	CAP, 2,3,4,6V53	1	1		1	1	1		1	1	1		1
A,B	850901	CAP, 2,6V53			1				1				1	
		5.5190 - TUBE, EXPANSION TANK OVERFLOW												
B	5122569	TUBE ASSY., 3,4,6V53 (DEV. L. 14)	1	1	1	1	1	1	1	1				1
C	5158825	TUBE ASSY., 2-53 (DEV. L. 4 1/4") (2.2300)									1	1	1	
	5100138	ADAPTOR, 1/8" PIPE 2-53 (12.9570)										1		
	225815	ELBOW, 5/16" INV. FL. TUBE 90 DEG. (12.9480)	1	1	1	1	1	1	1	1	1	1	1	1
		5.5200 - CLIP, EXPANSION TANK OVERFLOW TUBE												
	3290459	CLIP (2.5220)	1	1	1	1	1	1	1	1				1

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	291	293	294	295	299	300	301	303	304	305	314	316
5.5377 - TUBE, RAW WATER PUMP INLET														
7A	5121043	* ELBOW, 2,3,4-53	1	1		1	1					1		1
7B	5114776	ELBOW, 6V,8V-53						1						
7A	5128086	@ ELBOW, 2,3,4-53										1		
	113177	PLUG, 3/4" PIPE (BRASS) (12.9550)						1						
	179830	BOLT, 5/16"-18X3" (12.9001)	2	2		2	2							2
	180130	BOLT, 3/8"-16X2" (12.9001)						2						
	179829	BOLT, 3/8"-16X2 3/4" (12.9001)										2		
	103341	WASHER, 3/8" (12.9190)						2						
	103320	LOCKWASHER, 5/16" (12.9200)	2	2		2	2					2		2
		* PTO UNITS, TYPE 305.												
		@ GENERATOR UNITS, TYPE 305.												
5.5378 - GASKET, RAW WATER FLANGE (AT PUMP)														
	5122648	GASKET, 2,3,4-53	1	1		1	1					1		1
	5115395	GASKET, 6,8V53 (5.5410)						1						
5.5380 - TUBE, RAW WATER PUMP OUTLET														
7B	5125540	TUBE ASSY., 6V53						1						
5A	5122645	ELBOW, 2,3,4-53	1	1								1		1
5A	5122644	ELBOW, 3,4-53				1	1							
	112578	PLUG, 1/4" PIPE (12.9550)						1						
	179826	BOLT, 5/16"-18X2" (12.9001)	1	1		1	1	1				1		1
	179829	BOLT, 5/16"-18X2 3/4" (12.9001)	1	1		1	1	1				1		1
	179839	BOLT, 3/8"-16X1" (12.9001)						2						
	103341	WASHER, 3/8" (12.9190)						2						
	103320	LOCKWASHER, 5/16" (12.9200)	2	2		2	2	2				2		2
5.5390 - CLIP, HEAT EXCHANGER RAW WATER INLET TUBE														
5A	5179368	CLIP, 1 1/2" (4.4180)	1	1		1	1					1		1
	181333	BOLT, 5/16"-24X5/8" (12.9001)	1	1		1	1					1		1
	103320	LOCKWASHER, 5/16" (12.9200)	1	1		1	1					1		1
	114493	NUT, 5/16"-24 (12.9120)	1	1		1	1					1		1
5.5405 - BRACKET, HEAT EXCHANGER RAW WATER INLET TUBE CLIP														
	5155484	BRACKET, 2,3,4-53 (7.1582)	1	1		1	1					1		1
	100014	BOLT, 5/16"-24X1" (12.9001)	1	1		1	1					1		1
	103320	LOCKWASHER, 5/16" (12.9200)	1	1		1	1					1		1
	114493	NUT, 5/16"-24 (12.9120)	1	1		1	1					1		1

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 9 1	2 9 3	2 9 4	2 9 5	2 9 9	3 0 0	3 0 1	3 0 3	3 0 4	3 0 5	3 1 4	3 1 6
	5.5410	- GASKET, RAW WATER FLANGE (AT PUMP)												
	5122648	GASKET, 2,3,4-53 (5.5378)	1	1		1	1					1		1
	5115395	GASKET, 6V53						1						
	5.5430	- TUBE, HEAT EXCHANGER RAW WATER INLET (INTERMEDIATE)												
5A	5122688	TUBE (DEV. L. 36.36") 3-53	1				1							
5A	5122689	TUBE (DEV. L. 41.76") 4-53		1		1								
5A	5125223	* TUBE (DEV. L. 36.50") 2-53										1		
5A	5128038	* TUBE (DEV. L. 45.64") 4-53												1
		* OBSOLETE.												
	5.5440	- TUBE, HEAT EXCHANGER RAW WATER INLET												
7B	5125538	TUBE ASSY., 3-53						1						
5A	5122630	ELBOW, 3,4-53	1	1		1	1			1				1
	5126493	FLANGE, 2-53									1	1		
	5150744	STUD (1 1/4"L.) (5.1020)									2	2		
	186629	BOLT, 5/16"-18X1" (12.9001)						4						
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	4	4		4	4			4				4
	103320	LOCKWASHER, 5/16" (12.9200)	4	4		4	4	4		4	2	2		4
	114493	NUT, 5/16"-24 (12.9120)									2	2		
	5.5460	- GASKET, HEAT EXCHANGER RAW WATER INLET TUBE												
5A,B	5158747	GASKET, 3,4,6,8V53	1	1		1	1	1		1				1
5A	5153902	GASKET, 2-53 (4.1520)									1	1		
	5126635	SEAL RING									1	1		
	5.5470	- HOSE, HEAT EXCHANGER RAW WATER INLET TUBE												
5A	5163930	# HOSE (1 1/2" X 2 3/4") 2, 3, 4-53 (5.3290)	2	2		2	2					2		2
	5110373	# HOSE (2" X 3") 6, 8V53 (5.3330)						1						
5A	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE (12.9660)	4	4		4	4	2				4		4
5A	2337379	CLAMP, 1 1/16"-2" DIA. HOSE (12.9660) # STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	2 9 1	2 9 3	2 9 4	2 9 5	2 9 9	3 0 0	3 0 1	3 0 3	3 0 4	3 0 5	3 1 4	3 1 6
5.5550 - TUBE, HEAT EXCHANGER WATER OUTLET														
6B	5126464	ELBOW, 3,4-53 (5.5440)	1	1		1	1			1				1
6A	5119878	FLANGE, 6,8V53						1						
	5126493	FLANGE, 2-53 (5.5440)									1	1		
	103175	STUD, 5/16"-18-24X1 1/2" (12.9117)									2	2		
	186629	BOLT, 5/16"-18X1" (12.9001)						4						
	179819	BOLT, 5/16"-18X1 1/4" (12.9001)	4	4		4	4			4				4
	103320	LOCKWASHER, 5/16" (12.9200)	4	4		4	4	4		4	4	4		4
	114493	NUT, 5/16"-24 (12.9120)									2	2		
5.5570 - GASKET, HEAT EXCHANGER WATER OUTLET TUBE														
6B	5158747	GASKET, 2,3,4,6,8V53 (5.5460)	1	1		1	1	1		1				1
	5126635	SEAL RING, 2-53 (5.5460)									1	1		

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 1 7	3 1 8	3 1 9	3 2 0	3 2 1	3 2 2	3 2 3	3 4 5	3 4 8	3 4 9	3 6 8	3 7 3
5.5001 - TANK EXPANSION														
3A,B	5125027	TANK, 2,3,4,6V53	1	1	1	1	1	1	1	1	1	1	1	
3A	5109392	* TANK, 4-53 (AUX.)									1	1		
3B	5135123	# TANK, 8V53												1
	113175	PLUG, 1/8" PIPE BRASS (12.9550)	2	2	2	2	2	2	2	2	2	2	2	
	8924380	PLUG, 1/8"-27 PIPE (12.9550)												2
	5115214	PLUG, 1/2" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1	1	
	5109157	PLUG, 1 1/4" DIA. CUP	1	1	1	1	1	1	1	1	1	1	1	
	5117186	PLUG, 2" DIA. CUP (1.2001)												2
	5134851	COVER												1
	5134679	GASKET (5.3325)												1
	5177469	SPACER, 13/32"x3/4"x1 3/16" (7.1585)												2
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)												2
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)												2
	103321	LOCKWASHER, 3/8" (12.9200)												4
		# NOT SERVICED, REPLACED BY 5107685 TANK PLUS (1) 5118060 NECK, (1) 5118061 GASKET AND (2) 5117186 PLUGS.												
		* OBSOLETE.												
5.5003 - CORE, HEAT EXCHANGER														
3A,B	8509553	CORE, 3,4,6,8V53	1	1	1	1	1			1	1	1	1	1
5.5010 - ELECTRODE, HEAT EXCHANGER														
3A,B	8515850	ELECTRODE ASSY., 3, 4, 6, 8V53 (INCLUDES 3 3/8" ELECTRODE)	1	1	1	1	1			1	1	1	1	1
3A,B	8515851	ELECTRODE, 3, 4, 6V53 (3 3/8" L.)	1	1	1	1	1			1	1	1	1	1
3A,B	8517473	ELECTRODE ASSY., 2, 3, 4-53 (INCLUDES 1 1/4" ELECTRODE)	1	1	1	1	1				1	1	1	
3A,B	8517474	ELECTRODE, 2, 3, 4-53 (1 1/4" L.)	1	1	1	1	1				1	1	1	
3B	8515841	ELECTRODE ASSY., 6, 8V53 (INCLUDES 2 1/8" ELECTRODE)												1
3B	8515842	ELECTRODE (2 1/8" L.)								1				1
5.5025 - RETAINER, HEAT EXCHANGER SEAL														
3A,B	5167766	RETAINER, 3,4,6,8V53	1	1	1	1	1			1	1	1	1	1
5.5026 - SEAL, HEAT EXCHANGER														
3A,B	5167746	SEAL, 3,4,6,8V53	2	2	2	2	2			2	2	2	2	2

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 1 7	3 1 8	3 1 9	3 2 0	3 2 1	3 2 2	3 2 3	3 4 5	3 4 8	3 4 9	3 6 8	3 7 3
5.5027 - GLAND, HEAT EXCHANGER SEAL RETAINER														
6A,B	5167745	GLAND, 3,4,6,8V53	1	1	1	1	1			1	1	1	1	1
5.5030 - COVER, HEAT EXCHANGER														
6A,B	5146276	COVER, 3,4,6,8V53 (INLET)	1	1	1	1	1			1	1	1	1	1
6A,B	5167741	COVER, 3,4,6,8V53 (OUTLET)	1	1	1	1	1			1	1	1	1	1
6A,B	5186976	COVER, 4,6V53 (BLANK)						1	1					
6A,B	5121893	COVER, 4,6V53 (INLET) (5.5440)						1	1					
6A,B	5125655	COVER, 4,6V53 (REAR)						1	1					
6A	5135999	# COVER, 8V53 (INLET)												1
	114981	DRAINCOCK, 1/8" (12.9510)												1
	103647	DRAINCOCK, 1/4" (12.9510)												1
	113175	PLUG, 1/8" PIPE (12.9550)	2	2	2	2	2			2	2	2	2	2
	112578	PLUG, 1/4" PIPE (12.9550)	1	1	1	1	1			1	1	1	1	1
	113177	PLUG, 3/4" PIPE BRASS (12.9550)	1	1	1	1	1			1	1	1	1	1
	186625	BOLT, 5/16"-18X7/8" (12.9001)						2	2					
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	10	10	10	10	10	20	20	10	10	10	10	10
	179826	BOLT, 5/16"-18X2" (12.9001)	10	10	10	10	10			10	10	10		10
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		# NOT SERVICED, USE 5146276 COVER AND (1) 112578 PLUG.												
5.5050 - GASKET, HEAT EXCHANGER														
6A,B	5167764	GASKET, 3,4,6,8V53	3	3	3	3	3	2	2	3	3	3	3	3
6A,B	5119206	GASKET, 4,6V53 (6.1110)						1	1					
5.5070 - BRACKET, HEAT EXCHANGER MOUNTING														
6A	5119158	BRACKET, UPPER 3,4-53	1	1	1								1	
	5124944	* BRACKET, LOWER 3,4-53	1	1	1								1	
	5125212	+ BRACKET, UPPER 6V53								1				
	5125213	+ BRACKET, LOWER 6V53								1				
6A	5128692	BRACKET, UPPER 3,4-53				1		1				1		
	5128690	+ BRACKET, LOWER 3,4-53				1		1				1		
6A	5128691	BRACKET, UPPER 3,4-53					1		1		1			
	5128689	+ BRACKET, LOWER 3,4-53					1		1		1			
6A	5109376	BRACKET, 4-53 (AUX. TANK MOUNTING)									2	2		
	5136355	BRACKET, 8V53												1
	5156406	@ SPACER, 3,4-53											2	
	454813	BOLT, 3/8"-16X7/8" (12.9001)	2	2	2			2	2		2	2		
	179839	BOLT, 3/8"-16X1" (12.9001)				2	2	2	2		2	2		
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)	4	4	4	2	2	2	2		2	2	4	
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)								2				
	454813	* BOLT, 3/8"-16X1 7/8" (12.9001)											2	
	108608	BOLT, 3/8"-16X2 1/8" (12.9001)								2				

DETROIT DIESEL

53 MPC ENGINES

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 1 7	3 1 8	3 1 9	3 2 0	3 2 1	3 2 2	3 2 3	3 4 5	3 4 8	3 4 9	3 6 8	3 7 3
5.5070 - BRACKET, HEAT EXCHANGER MOUNTING (CONT'D)														
	106288	* BOLT, 3/8"-16X2 1/4" (12.9001)											2	
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)								2			2	
	455537	@ BOLT, 3/8"-16X4" (12.9001)											2	
	106288	BOLT, 3/8"-24X2 1/4" (12.9001)	2	2	2	2	2	2	2		2	2		
	454933	BOLT, 7/16"-14X1 1/8" (12.9001)												2
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)								2				2
	442733	BOLT, 1/2"-13X1 1/4" (12.9001)				2	2	2	2		2	2		
	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	103322	LOCKWASHER, 7/16" (12.9200)				2	2	2	2	2		2		4
	103323	LOCKWASHER, 1/2" (12.9200)				2	2	2	2		2	2		
	117049	NUT, 3/8"-24 (12.9120)	2	2	2			2	2		2	2		
		* THRU 3D-268, 4D-644.												
		@ EFFECTIVE WITH 3D-269, 4D-645.												
		+ OBSOLETE.												
5.5080 - GASKET, HEAT EXCHANGER MOUNTING BRACKET														
6A	5116212	GASKET, 3,4,6V53 (BRACKET TO TANK)	1	1	1	1	1	1	1	1	1	1	1	
6A	5116242	GASKET, 3,4-53 (BRACKET TO HEAD) (1.2044)	1	1	1								1	
6A	5175882	* GASKET, 3,4-53 (SPACER TO FRONT (4.4115)											2	
		* EFFECTIVE WITH 3D-269, 4D-645.												
5.5120 - NECK, EXPANSION TANK FILLER														
	5118080	NECK, 2,3,4,6,8V53	1	1	1	1	1	1	1	1	1	1	1	1
5.5130 - GASKET, EXPANSION TANK FILLER NECK														
	5118061	GASKET, 2,3,4,6,8V53	1	1	1	1	1	1	1	1	1	1	1	1
5.5140 - CAP, EXPANSION TANK FILLER														
6A,B	850795	CAP, 2,3,4,6,8V53	1	1	1	1	1			1	1	1	1	1
6A,B	850901	CAP, 2,6,8V53						1	1					
5.5190 - TUBE, EXPANSION TANK OVERFLOW														
5B	5122569	TUBE ASSY., 3, 4, 6V53 (DEV. L 14")	1	1	1	1	1	1	1	1	1	1	1	
5B	5135900	TUBE ASSY., 8V53 (DEV. L 17.75")												1
	225815	ELBOW, 5/16" INV. FL TUBE 90 DEG. (12.9480)	1	1	1	1	1	1	1	1	1	1	1	1

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 1 7	3 1 8	3 1 9	3 2 0	3 2 1	3 2 2	3 2 3	3 4 5	3 4 8	3 4 9	3 6 8	3 7 3
5.5195 - HOSE, HEAT EXCHANGER AUX. TANK														
	5129867	# HOSE, 1/4 X 38 L. 4-53									1	1		
	5138542	# HOSE, 3/4 I.D. X 30 L. 4-53									1	1		
	118753	ELBOW, 1/4" INV. FL TUBE 90 DEG. (12.9480)									2	2		
	110289	ELBOW, 3/4" FL TUBE 90 DEG. (12.9390)									2	2		
	5111277	FITTING (1/4" HOSE) (8.1017)									2	2		
	5126728	FITTING (3/4" HOSE) (12.4070)									2	2		
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												
5.5200 - CLIP, EXPANSION TANK OVERFLOW TUBE														
	3290459	CLIP (2.5220)	1	1	1	1	1	1	1	1	1	1	1	1
5.5377 - TUBE, RAW WATER PUMP INLET														
7A	5121043	ELBOW, 2.3.4-53	1	1	1								1	
7B	5114776	ELBOW, 6V.8V-53												1
7A	5128086	ELBOW, 2.3.4-53				1	1				1	1		
7B	5109936	ELBOW, 6V-53								1				
	113177	PLUG, 3/4" PIPE (BRASS) (12.9550)								1				1
	179830	BOLT, 5/16"-18X3" (12.9001)	2	2	2								2	
	179847	BOLT, 3/8"-16X2" (12.9001)								2				2
	179828	BOLT, 3/8"-16X2 1/2" (12.9001)					2	2			2	2		2
	103341	WASHER, 3/8" (12.9190)								2				2
	103320	LOCKWASHER, 5/16" (12.9200)	2	2	2	2	2				2	2	2	
5.5378 - GASKET, RAW WATER FLANGE (AT PUMP)														
	5122648	GASKET, 2.3.4-53	1	1	1	1	1				1	1	1	
	5115395	GASKET, 6.8V53 (5.5410)								1				1
5.5380 - TUBE, RAW WATER PUMP OUTLET														
7B	5109705	TUBE ASSY., 6V53								1				
5A	5122645	ELBOW, 2.3.4-53		1		1						1	1	
5A	5122644	ELBOW, 3.4-53	1		1		1				1			
	103647	DRAINCOCK, 1/4" (12.9510)								1				

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 1 7	3 1 8	3 1 9	3 2 0	3 2 1	3 2 2	3 2 3	3 4 5	3 4 8	3 4 9	3 6 8	3 7 3
		5.5380 - TUBE, RAW WATER PUMP OUTLET (CONT'D)												
	179826	BOLT, 5/16"-18X2" (12.9001)	1	1	1	1	1				1	1	1	
	179829	BOLT, 5/16"-18X2 3/4" (12.9001)	1	1	1	1	1				1	1	1	
	179839	BOLT, 3/8"-16X1" (12.9001)								2				
	103341	WASHER, 3/8" (12.9190)								2				
	103320	LOCKWASHER, 5/16" (12.9200)	2	2	2	2	2			2	2	2	2	
		5.5390 - CLIP, HEAT EXCHANGER RAW WATER INLET TUBE												
5A	5179368	CLIP, 1 1/2" (4.4180)	1	1	1									1
	181333	BOLT, 5/16"-24X5/8" (12.9001)	1	1	1									1
	103320	LOCKWASHER, 5/16" (12.9200)	1	1	1									1
	114493	LOCKNUT, 5/16"-24 (2.7170)	1	1	1									1
		5.5405 - BRACKET, HEAT EXCHANGER RAW WATER INLET TUBE CLIP												
	5155464	BRACKET, 2,3,4-53 (7.1582)	1	1	1									1
	100014	BOLT, 5/16"-24X1" (12.9001)	1	1	1									1
	103320	LOCKWASHER, 5/16" (12.9200)	1	1	1									1
	114493	LOCKNUT, 5/16"-24 (2.7170)	1	1	1									1
		5.5410 - GASKET, RAW WATER FLANGE (AT PUMP)												
	5122648	GASKET, 2,3,4-53 (5.5378)	1	1	1	1	1					1	1	
	5115395	GASKET, 6V53								1				
		5.5430 - TUBE, HEAT EXCHANGER RAW WATER INLET (INTERMEDIATE)												
5A	5128038	* TUBE (DEV. L. 45.64") 4-53	1											
5A	5128037	TUBE (DEV. L. 40.24") 3-53		1	1									1
		* OBSOLETE.												
		5.5440 - TUBE, HEAT EXCHANGER RAW WATER INLET												
7B	5109808	+ TUBE ASSY., 6V-53								1				
7B	5135357	+ TUBE ASSY., 8V-53												1
6A	5122630	ELBOW, 3,4-53	1	1	1								1	
6A	5126464	ELBOW, 3,4-53					1	1			1	1		
	186629	BOLT, 5/16"-18X1" (12.9001)								4				4
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	4	4	4	4	4			4	4	4	4	4
	103320	LOCKWASHER, 5/16" (12.9200)	4	4	4	4	4			4	4	4	4	4
		+ OBSOLETE.												

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 1 7	3 1 8	3 1 9	3 2 0	3 2 1	3 2 2	3 2 3	3 4 5	3 4 8	3 4 9	3 6 8	3 7 3
		5.5460 - GASKET, HEAT EXCHANGER RAW WATER INLET TUBE												
6A,B	5158747	GASKET, 3,4,6,8V53	1	1	1	1	1			1	1	1	1	1
		5.5470 - HOSE, HEAT EXCHANGER RAW WATER INLET TUBE												
5A	5163930	# HOSE, 1 1/2" X 2 3/4" 2, 3, 4-53 (5.3290)	2	2	2								2	
	5110373	HOSE, 2" X 3" 6, 8V53 (5.3330)								1				1
	5109545	HOSE, 1 1/2" I.D., FORMED 3, 4-53					1	1			1	1		
5A	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE (12.9660)					2	2		2	2	2	4	2
5A	2337379	CLAMP, 1 1/16"-2" DIA. HOSE (12.9660) # STD. LENGTH HOSE, CUT TO LENGTH SHOWN.	4	4	4									
		5.5550 - TUBE, HEAT EXCHANGER RAW WATER OUTLET												
	5126464	ELBOW, 3,4-53 (5.5440)	1	1	1	1	1				1	1	1	
6B	5119878	FLANGE, 6,8V53								1				1
	186629	BOLT, 5/16"-18X1" (12.9001)								4				4
	179819	BOLT, 5/16"-18X1 1/4" (12.9001)	4	4	4	4	4				4	4	4	
	103320	LOCKWASHER, 5/16" (12.9200)	4	4	4	4	4			4	4	4	4	4
		5.5570 - GASKET, HEAT EXCHANGER RAW WATER OUTLET TUBE												
6B	5158747	GASKET, 3,4,6,8V53 (5.5460)	1	1	1	1	1			1	1	1	1	1

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 7 8	3 7 9	3 8 0	3 8 3	3 8 4	3 8 5	3 8 6	3 8 9	3 9 2	3 9 5	3 9 6	3 9 9
5.5001 - TANK EXPANSION														
6A,B	5135123	# TANK, 4,6,8V53	1	1		1			1			1	1	
6B	5107685	TANK, 6,8V53			1		1	1		1	1			1
	8924380	PLUG, 1/8"-27 PIPE (12.9550)				2						2	2	
	113175	PLUG, 1/8" PIPE BRASS (12.9550)					2							
	8923847	PLUG, 1/4" PIPE (4.7001)			1		1	1		1	1			1
	5111798	PLUG, 1" PIPE (12.9550)										1	1	
	5117186	PLUG, 2" DIA. CUP (1.2001)	2	2	2	2	2	2	2	2	2	2	2	2
	5134851	COVER	1	1	1	1	1	1	1	1	1	1	1	1
	5134679	GASKET (5.3325)	1	1	1	1	1	1	1	1	1	1	1	1
	5177469	SPACER, 13/32"x3/4"x1 3/16" (7.1585)	2	2	2	2	2	2	2	2	2			2
	179839	BOLT, 3/8"-16X1" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)	2	2	2	2	2	2	2	2	2			2
	181384	BOLT, 3/8"-24X2 3/4" (12.9001)										2	2	
	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	4	AR	AR	AR	AR	AR	AR	AR
	117049	NUT, 3/8"-24 (12.9120)										2	2	
		# NOT SERVICED; USE 5107685 TANK PLUS (1) 5118060 NECK, (1) 5118061 GASKET, AND (2) 5117186 PLUGS.												
5.5003 - CORE, HEAT EXCHANGER														
6A,B	8509553	CORE, 4,6,8V53	1	1	1		1			1		1	1	1
5.5010 - ELECTRODE, HEAT EXCHANGER														
6A,B	8515850	ELECTRODE ASSY., 4,6,8V53 (INCLUDES 3 3/8 L. ELECTRODE)	1	1	1		1			1		1	1	1
5.5025 - RETAINER, HEAT EXCHANGER SEAL														
6A,B	5167766	RETAINER, 4,6,8V53	1	1	1		1			1		1	1	1
5.5026 - SEAL, HEAT EXCHANGER														
6A,B	5167746	SEAL, 4,6,8V53	2	2	2		2		2	2		2	2	2
5.5027 - GLAND, HEAT EXCHANGER SEAL RETAINER														
6A,B	5167745	GLAND, 4,6,8V53	1	1	1		1			1		1	1	1
5.5030 - COVER, HEAT EXCHANGER														
6A,B	5135999	# COVER, 4,6,8V53 (INLET)	1	1	1		1			1		1	1	1
6A,B	5167741	COVER, 4,6,8V53 (OUTLET)	1	1	1		1			1		1	1	1
6B	5186976	COVER, 6,8V53 (BLANK)				1		1	1		1			

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	378	379	380	383	384	385	386	389	392	395	396	399
		5.5030 - COVER, HEAT EXCHANGER (CONT'D)												
6A,B	5121893	COVER, 4,6,8V53 (INLET) (5.5440)				1								
6A,B	5123861	COVER, 4,6V53 (BLANK) (4.1290)						2				1	1	
	5117874	COVER, 4,6V53 (INLET)						1	1		1			
	114981	DRAINCOCK, 1/8" (12.9510)	1	1	1		1			1			1	1
	103847	DRAINCOCK, 1/4" (12.9510)										1	1	
	113175	PLUG, 1/8" PIPE (12.9550)	2	2	2		2			2		2	2	2
	112578	PLUG, 1/4" PIPE (12.9550)	1	1	1		1			1		1	1	1
	113177	PLUG, 3/4" PIPE BRASS (12.9550)	1	1	1		1			1		1	1	1
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	10	10	10	20	10	20	20	10	20	10	10	10
	179826	BOLT, 5/16"-18X2" (12.9001)	10	10	10		10			10		10	10	10
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)						4				2	2	
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	103321	LOCKWASHER, 3/8" (12.9200)						4				2	2	
		# NOT SERVICED, USE 5146278 COVER AND (1) 112578 PLUG.												
		5.5050 - GASKET, HEAT EXCHANGER												
6A,B	5167764	GASKET, 4,6,8V53	3	3		2	3	2	2	3	2	3	3	3
6A,B	5123860	GASKET, 4,6V53 (4.1300)						2				1	1	
6B	5146135	GASKET, 6V53			3									
		5.5070 - BRACKET, HEAT EXCHANGER MOUNTING												
	5135291	BRACKET, UPPER 6V53	1	1	1	1		1		1				1
	5135355	BRACKET, 8V53					1		1		1			
6A	5138767	BRACKET, UPPER 4-53										1		
	5138781	BRACKET, LOWER 4-53										1		
6A	5138592	BRACKET, UPPER 4-53											1	
	5138585	BRACKET, LOWER 4-53											1	
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)										2	2	
	179859	BOLT, 7/16"-14X1 1/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	180143	BOLT, 7/16"-14X1 1/4" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	442733	BOLT, 1/2"-13X1 1/4" (12.9001)										2	2	
	103321	LOCKWASHER, 3/8" (12.9200)										2	2	
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	2	2	4
	103323	LOCKWASHER, 1/2" (12.9200)										1	1	
		5.5120 - NECK, EXPANSION TANK FILLER												
	5118060	NECK, 4,6,8V53	1	1	1	1	1	1	1	1	1	1	1	1
		5.5130 - GASKET, EXPANSION TANK FILLER NECK												
	5118061	GASKET, 4,6,8V53	1	1	1	1	1	1	1	1	1	1	1	1

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 7 8	3 7 9	3 8 0	3 8 3	3 8 4	3 8 5	3 8 6	3 8 9	3 9 2	3 9 5	3 9 6	3 9 9
5.5140 - CAP, EXPANSION TANK FILLER														
6A,B	850795	CAP, 4,6,8V53	1	1	1		1		1	1	1	1	1	1
6A	850901	CAP, 6V53				1		1						
5.5190 - TUBE, EXPANSION TANK OVERFLOW														
5A,B	5135900	TUBE ASSY., 4, 6, 8V53 (DEV. L. 17.75")	1	1	1	1	1	1	1	1	1	1	1	1
	9432245	ELBOW, 5/16" INV. FL TUBE 90 DEG. (12.9480)					1		1		1			
	225815	ELBOW, 5/16" INV. FL TUBE 90 DEG. (12.9480)	1	1	1	1		1		1		1	1	1
5.5200 - CLIP, EXPANSION TANK OVERFLOW TUBE														
	3290459	CLIP (2.5220)	1	1	1	1	1	1	1	1	1	1	1	1
5.5378 - GASKET, RAW WATER FLANGE (AT PUMP)														
	5115395	GASKET, 4,6,8V53 (5.5410)	1	1	1		1		1			1	1	1
5.5380 - TUBE, RAW WATER PUMP OUTLET														
7B	5125540	TUBE ASSY., 6V-53	1		1					1				
7B	5109705	TUBE ASSY., 6V-53		1										1
7B	5136661	TUBE ASSY., 8V-53					1							
	5138746	ELBOW, 4-53 (8 ENGINE)										1		
	5138569	ELBOW, 4-53 (D ENGINE)											1	
	103847	DRAINCOCK, 1/4" (12.9510)												1
	112578	PLUG, 1/4" PIPE BRASS (12.9550)	1	1	1					1				
	179839	BOLT, 3/8"-16X1" (12.9001)	2	2	2		2			2				2
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)										1	1	
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)										1	1	
	103341	WASHER, 3/8" (12.9190)	2	2	2					2				2
	103321	LOCKWASHER, 3/8" (12.9200)					2 AR					2	2	
5.5430 - TUBE, HEAT EXCHANGER RAW WATER INLET (INTERMEDIATE)														
	5115502	TUBE (DEV. L. 19.00") 8V-53					1							
5A	5138766	+ TUBE (DEV. L. 23.50") 4-53										1		
5A	5140384	+ TUBE (DEV. L. 23.80") 4-53											1	
		- OBSOLETE.												
5.5440 - TUBE, HEAT EXCHANGER RAW WATER INLET														
7B	5135498	TUBE ASSY., 6V-53	1		1					1				
7B	5136504	TUBE ASSY., 6V-53		1										
7B	5137343	TUBE ASSY., 8V-53 (5.5377)					1							1

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 7 8	3 7 9	3 8 0	3 8 3	3 8 4	3 8 5	3 8 6	3 8 9	3 9 2	3 9 5	3 9 6	3 9 9
	5.5440	- TUBE, HEAT EXCHANGER RAW WATER INLET (CONT'D)												
5A,6A	5138743	* ELBOW, 4-53 (5.5550)										1	1	
	186629	BOLT, 5/16"-18X1" (12.9001)	4	4	4		4		4					4
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)										4	4	
	103320	LOCKWASHER, 5/16" (12.9200)	4	4	4		4		4			4	4	4
		* OBSOLETE												
	5.5460	- GASKET, HEAT EXCHANGER RAW WATER INLET TUBE												
5A,B	5158747	GASKET, 3,4,6,8V53	1	1	1		1		1		1	1	1	1
	5.5470	- HOSE, HEAT EXCHANGER RAW WATER INLET TUBE												
5A	5110373	# HOSE (2 X 3") 6, 8V53 (5.3330)	1	1	1		2		2					2
	5199780	# HOSE (2 3/8" X 2 3/4") 4-53 (5.3365)										1	1	
	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE (12.9660)	2	2	2		4		4					4
5A	5188036	CLAMP, 2 9/16"-3 1/2" DIA. HOSE (12.9660)										2	2	
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												
	5.5550	- TUBE, HEAT EXCHANGER RAW WATER OUTLET												
6B	5136504	TUBE ASSY., 8V53							1					1
	5119878	FLANGE, 4,6,8V53	1	1	1		1					1	1	1
	186629	BOLT, 5/16"-18X1" (12.9001)	4	4	4		4		4					4
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)										4	4	
	103320	LOCKWASHER, 5/16" (12.9200)	4	4	4		4		4			4	4	4
	5.5570	- GASKET, HEAT EXCHANGER RAW WATER OUTLET TUBE												
6A,B	5158747	GASKET, 3,4,6,8V53 (5.5460)	1	1	1		1		1		1	1	1	1
	5.5580	- HOSE, HEAT EXCHANGER WATER OUTLET TUBE												
	5199776	# HOSE, 1 3/4" I.D. X 2.76" L 4-53 (5.3295)												
	8920537	CLAMP, 1 9/16" X 2 1/2" (12.9660)										2	2	
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.										4	4	

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 0 2	4 0 6	4 1 1 3	4 1 3	4 2 4	4 3 4	4 4 0	4 4 1	4 4 2	4 4 3	4 4 4	
5.5001 - TANK EXPANSION														
6B	5107685	TANK, 6,8V53		1	1									
6B	5137002	# TANK ASSY., 6V53			1									
6A	5125027	TANK, 3-53					1							
6B	5144834	# TANK, 6,8V53 (ALUM.)						1	1	1	1	1	1	
	8924380	PLUG, 1/8"-27 PIPE (12.9550)			2	2								
	8923847	PLUG, 1/4" PIPE (4.7001)		1		1								
	5115214	PLUG, 1/2" PIPE (12.9550)					1							
	5109157	PLUG, 1 1/4" DIA. CUP					1							
	5117186	PLUG, 2" DIA. CUP (1.2001)		2	2	2								
	5134851	COVER		1	1	1								
	5134679	GASKET (5.3325)		1	1	1								
	5177469	SPACER, 13/32"x3/4"x1 3/16" (7.1585)		2	2	2								
	5145128	SPACER, 13/32"x2.56"						2	2	2	2	2	2	
	179839	BOLT, 3/8"-16X1" (12.9001)		2		2								
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			2									
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)		2	2	2		2	2	2	2	2	2	
	103321	LOCKWASHER, 3/8" (12.9200)		4	AR	AR		AR	AR	AR	AR	AR	AR	
		# NOT SERVICED; CONVERT TYPE 434 TO TYPE 380, TYPE 440 TO TYPE 385, TYPE 441 TO TYPE 379, TYPE 442 TO TYPE 384, TYPE 443 TO TYPE 386, AND TYPE 444 TO TYPE 378. ALSO INCLUDE (1) 5118060 NECK, (1) 5118061 GASKET, AND (2) 5117186.												
5.5003 - CORE, HEAT EXCHANGER														
6A,B	8509553	CORE, 3,4,6,8V53		1	1	1	1	1		1	1		1	
5.5010 - ELECTRODE, HEAT EXCHANGER														
6A,B	8515850	ELECTRODE ASSY. 3, 4, 6, 8V53 (INCLUDES 3 3/8" L. ELECTRODE)		1	1	1	1	1		1	1		1	
5.5025 - RETAINER, HEAT EXCHANGER SEAL														
6A,B	5167766	RETAINER, 3,4,6,8V53		1	1	1	1	1		1	1		1	
5.5026 - SEAL, HEAT EXCHANGER														
6A,B	5167746	SEAL, 3,4,6,8V53		2	2	2	2	2		2	2		2	
5.5027 - GLAND, HEAT EXCHANGER SEAL RETAINER														
6A,B	5167745	GLAND, 3,4,6,8V53		1	1	1	1	1		1	1		1	

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TYPES										
FIG	PART NUMBER	NAME AND DESCRIPTION	4 0 2	4 0 6	4 1 1	4 1 3	4 2 4	4 3 4	4 4 0	4 4 1	4 4 2	4 4 3	4 4 4
5.5030 - COVER, HEAT EXCHANGER													
6B	5135999	# COVER, 3,4,6,8V53 (INLET)		1	1	1	1	1		1	1		1
6A,B	5167741	COVER, 3,6,4,8V53 (OUTLET)		1	1	1	1	1		1	1		1
	5134939	+ COVER, 6V53 (BOTTOM)			1					1		1	1
6B	5134851	COVER, 3,4,6,8V53 (OUTLET)						1	1	1	1	1	1
	5145287	+ COVER, 6,8V53 (INLET)							1			1	1
	5186976	COVER, 6,8V53 (INLET)							1			1	
	114981	DRAINCOCK, 1/8" (12.9510)		1		1		1		1	1		1
	103647	DRAINCOCK, 1/4" (12.9510)			1		1						
	113175	PLUG, 1/8" PIPE (12.9550)	2	2	2	2	2			2	2		2
	112578	PLUG, 1/4" PIPE (12.9550)	1	1	1	1	1						
	113177	PLUG, 3/4" PIPE BRASS (12.9550)	1	1	1	1	1			1	1		1
	186625	BOLT, 5/16"-18X7/8" (12.9001)			8								
	122018	BOLT, 5/16"-18X1" (12.9001)								8			8
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	10	10	10	10							
	186624	BOLT, 5/16"-18X1 1/4" (12.9001)					2	2	2	2	2	10	2
	180083	BOLT, 5/16"-18X1 1/2" (12.9001)					10	20	20	10	20	20	10
	179826	BOLT, 5/16"-18X2" (12.9001)	10	10	10	10							
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)					10			10			10
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		# NOT SERVICED. USE 5146276 COVER AND (1) 112578 PLUG. + OBSOLETE.											
5.5050 - GASKET, HEAT EXCHANGER													
6A,B	5167784	GASKET, 3,4,6,8V53	3	3			3						
6B	5146135	GASKET, 6V53				3		3	2	3	3	2	3
6B	5134679	GASKET, 6,8V53 (5.3325)					1	1	1	1	1	1	1
6B	5144703	GASKET, 6,8V53								1			
5.5070 - BRACKET, HEAT EXCHANGER MOUNTING													
6A	5119158	BRACKET, UPPER 3-53					1						
	5135291	BRACKET, UPPER 6V53			1	1		1	1	1			1
	5135355	BRACKET, 8V53	1								1	1	
	5156405	SPACER, 4-53 (7.1581)					2						
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)					4						
	186285	BOLT, 3/8"-16X4" (12.9001)					2						
	179859	BOLT, 7/16"-14X1 1/8" (12.9001)	2	2	2			2	2	2	2	2	2
	180143	BOLT, 7/16"-14X1 1/4" (12.9001)	2	2	2			2	2	2	2	2	2
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4			4	4	4	4	4	4
5.5080 - GASKET, HEAT EXCHANGER MOUNTING BRACKET													
6A	5116242	GASKET, 3-53 (BRACKET TO HEAD) (1.2044)					1						
6A	5116212	GASKET, 3-53 (BRACKET TO TANK)					1						

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	4 0 2	4 0 6	4 1 1 3	4 2 4	4 3 4	4 4 0	4 4 1	4 4 2	4 4 3	4 4 4	
	5.5080	GASKET, HEAT EXCHANGER MOUNTING BRACKET (CONT'D)											
6A	5175882	GASKET, 3-53 (SPACER TO FRONT COVER) (4.4115)				2							
	5.5120	NECK, EXPANSION TANK FILLER											
	5118060	NECK, 3,4,6,8V53		1	1	1	1	1	1	1	1	1	
	5.5130	GASKET, EXPANSION TANK FILLER NECK											
	5118061	GASKET, 3,4,6,8V53		1	1	1	1	1	1	1	1	1	
	5.5140	CAP, EXPANSION TANK FILLER											
6A,B	850795	CAP, 3,4,6,8V53	1	1	1	1	1		1	1	1	1	
6A	850901	CAP, 6V53						1					
	5.5190	TUBE, EXPANSION TANK OVERFLOW											
5A	5122569	TUBE ASSY., 3-53 (DEV. L. 14")				1							
5A,B	5135900	TUBE ASSY., 4, 6, 8V53 (DEV L. 17.75")		1	1	1		1	1	1	1	1	
	225815	ELBOW, 5/16" INV. FL. TUBE 90 DEG. (12.9480)		1	1	1	1	1	1	1	1	1	
	5.5200	CLIP, EXPANSION TANK OVERFLOW TUBE											
	3290459	CLIP (2.5220)		1	1	1	1	1	1	1	1	1	
	5.5378	GASKET, RAW WATER FLANGE (AT PUMP)											
	5115395	GASKET, 3,4,6,8V53 (5.5410)	1	1	1	1		1		1		1	
	5.5380	TUBE, RAW WATER PUMP OUTLET											
7B	5125540	TUBE ASSY., 6V-53	1		1		1					1	
7B	5109705	TUBE ASSY., 6V-53				1			1				
7B	5136681	TUBE ASSY., 8V-53		1						1			
	5145483	CONNECTOR, 1"X1.50" HOSE				1							
	103647	DRAINCOCK, 1/4" (12.9510)				1			1				
	112578	PLUG, 1/4" PIPE BRASS (12.9550)	1		1		1					1	
	113177	PLUG, 3/4" PIPE BRASS (12.9550)		1							1		
	179839	BOLT, 3/8"-16X1" (12.9001)	2	2	2	2	2		2	2		2	

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	4 0 2	4 0 6	4 1 1	4 1 3	4 2 4	4 3 4	4 4 0	4 4 1	4 4 2	4 4 3	4 4 4
		5.5380 - TUBE, RAW WATER PUMP OUTLET (CONT'D)											
	103341	WASHER, 3/8" (12.9200)	2	2	2	2		2		2	2		2
	103321	LOCKWASHER, 3/8" (12.9200)		AR							AR		
		5.5430 - TUBE, HEAT EXCHANGER RAW WATER INLET (INTERMEDIATE)											
	5115502	TUBE (DEV. L. 19.00") 8V-53					1				1		
		5.5440 - TUBE, HEAT EXCHANGER RAW WATER INLET											
7B	5135498	TUBE ASSY., 6V-53			1	1		1					1
7B	5137343	TUBE ASSY. 8V-53 (5.5377)		1							1		
5A,6A	5122630	ELBOW					1						
	186629	BOLT, 5/16"-18X1" (12.9001)		4	4	4		4		4	4		4
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)					4						
	103320	LOCKWASHER, 5/16" (12.9200)		4	4	4	4	4		4	4		4
		5.5460 - GASKET, HEAT EXCHANGER RAW WATER INLET TUBE											
5A,B	5158747	GASKET, 3,4,6,8V53		1	1	1	1	1		1	1		1
		5.5470 - HOSE, HEAT EXCHANGER RAW WATER INLET TUBE											
5A	5144164	HOSE (1.5" X 12.25" L) 3-53					1						
	5110373	# HOSE (2" X 3") 6, 8V53 (5.3330)		2	1	2		1		2	2		1
5A	2337379	CLAMP, 1 1/16"-2" DIA. HOSE (12.9660)					2						
	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE (12.9660)		4	2	4		2		4	4		2
		# STD. LENGTH HOSE: CUT TO LENGTH SHOWN.											
		5.5550 - TUBE, HEAT EXCHANGER RAW WATER OUTLET											
6B	5136504	TUBE ASSY., 8V53		1		1				1			
	5119878	FLANGE, 4,6,8V53			1			1		1	1		1
	5126464	ELBOW					1						
	186629	BOLT, 5/16"-18X1" (12.9001)		4	4	4		4		4	4		4
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)					4						
	103320	LOCKWASHER, 5/16" (12.9200)		4	4	4	4	4		4	4		4

DETROIT DIESEL

53 MPC ENGINES

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	4 0 2	4 0 6	4 1 1	4 1 3	4 2 4	4 3 4	4 4 0	4 4 1	4 4 2	4 4 3	4 4 4		
5.5570		GASKET, HEAT EXCHANGER WATER OUTLET TUBE													
3A.8	5158747	GASKET, 3,4,6,8V53 (5.5460)		1	1	1	1	1		1	1		1		

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	4 4 5	4 4 6	4 4 7	4 4 8	4 4 9	4 5 1	4 5 7	4 8 1	4 8 2	4 8 9	4 9 0	
5.5001 - TANK EXPANSION														
6A,B	5144834	# TANK, 4,6,8V53 (ALUM.)	1	1	1	1	1	1						
6B	5107685	TANK, 8V53							1				1	
6B	5108124	% TANK, 6V53								1	1	1		
	5145128	SPACER, 13/32"x2.56" L.			2	2	2	2						
	5177469	SPACER, 13/32"x3/4"x1 3/16" (7.1585)							2	2	2	2	2	
	8923847	PLUG, 1/4" PIPE (4.7001)							1				1	
	5117186	PLUG, 2" DIA. CUP (1.2001)							2	2	2	2	2	
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)			2	2	2	2	2	2	2	2	2	
	103321	LOCKWASHER, 3/8" (12.9200)			2	2	2	2	2	2	2	2	2	
		# NOT SERVICED; CONVERT TYPE 445 TO TYPE 395, TYPE 446 TO TYPE 396, TYPE 447 TO TYPE 380, TYPE 448 TO TYPE 413, TYPE 449 TO TYPE 406, AND TYPE 451 TO TYPE 392.												
		% NOT SERVICED; FOR SERVICE USE 5107685 PLUS 2-5117186, 1-5118060 AND 1-5118061.												
5.5003 - CORE, HEAT EXCHANGER														
6A,B	8509553	CORE, 4,6,8V53	1	1	1	1	1		1	1	1			
5.5010 - ELECTRODE, HEAT EXCHANGER														
6A,B	8515850	ELECTRODE ASSY., 4, 6, 8V53 (INCLUDES 3 3/8" L. ELECTRODE)	1	1	1	1	1		1	1	1			
5.5025 - RETAINER, HEAT EXCHANGER SEAL														
6A,B	5167766	RETAINER, 4,6,8V53	1	1	1	1	1		1	1	1			
5.5026 - SEAL, HEAT EXCHANGER														
6A,B	5167746	SEAL, 4,6,8V53	2	2	2	2	2		2	2	2			
5.5027 - GLAND, HEAT EXCHANGER SEAL RETAINER														
6A,B	5167745	GLAND, 4,6,8V53	1	1	1	1	1		1	1	1			
5.5030 - COVER, HEAT EXCHANGER														
6A,B	5146276	COVER, 4,6,8V53 (INLET)	1	1	1	1	1		1	1	1			
	5167741	COVER, 4,6,8V53 (OUTLET)	1	1	1	1	1		1	1	1			
	5123661	COVER, 4-53 (OUTLET)	1	1										
	5134939	+ COVER, 4,8V53 (BOTTOM)	1	1					1					
6A,B	5145287	+ COVER, 4,6,8V53 (INLET)						1						
6A,B	5186976	COVER, 4,6,8V53 (INLET)						1					1	
6A,B	5134851	COVER, 4,6,8V53 (OUTLET)	1	1	1	1	1	1	1	1	1	1	1	
	5117674	COVER, 6V53 (INLET)										1	1	
	5146505	COVER, 6V53 (4.4060)										1	1	

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 4 5	4 4 6	4 4 7	4 4 8	4 4 9	4 5 1	4 5 7	4 8 1	4 8 2	4 8 9	4 9 0	
	5.5030 - COVER, HEAT EXCHANGER (CONT'D)													
	114981	DRAINCOCK, 1/8" (12.9510)	1	1	1	1	1		1	2	2			
	455603	PLUG, 1/8"-27 SQ HD. (12.9550)	2	2										
	113175	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1		1	1	1			
	112578	PLUG, 1/4" PIPE (12.9550)	1	1	1	1	1		1	1	1			
	113177	PLUG, 3/4" PIPE (12.9550)	1	1	1	1	1		1	1	1			
	5173336	PLUG, 1" HEADLESS (12.9550)	1	1										
	5115214	PLUG, 1/2" PIPE (12.9550)											2	
	5150155	GASKET (4.4030)											1	
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)							10	10	10	20	20	
	186624	BOLT, 5/16"-18X1 1/4" (12.9001)	12	12	2	2	2	2	8					
	180083	BOLT, 5/16"-18X1 1/2" (12.9001)	10	10	10	10	10	20						
	179826	BOLT, 5/16"-18X2" (12.9001)							10	10	10			
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)	10	10	10	10	10							
	186629	BOLT, 5/16"-18X1" (12.9001)											8	
	179839	BOLT, 3/8"-16X1" (12.9001)							2	2	2	2	2	
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	103321	LOCKWASHER, 3/8" (12.9200)							2	2	2	2	2	
		+ OBSOLETE												
	5.5050 - GASKET, HEAT EXCHANGER													
5B	5146135	GASKET, 4,6,8V53	3	3	3	3	3	2		3	3			
5B	5134679	GASKET, 4,6,8V53	1	1	1	1	1	1	1	1	1	1	1	
5B	5146137	GASKET, 4,6,8V53	1	1										
5B	5144703	GASKET, 4,6,8V53 (BOTTOM COVER)	1	1					1					
6B	5167764	GASKET, 4,6,8V53							3			2	2	
	5.5070 - BRACKET, HEAT EXCHANGER MOUNTING													
	5138767	BRACKET, 4-53 (UPPER)	1											
	5138761	BRACKET, 4-53 (LOWER)	1											
	5138592	BRACKET, 4-53 (UPPER)		1										
	5138585	BRACKET, 4-53 (LOWER)		1										
	5135291	BRACKET, 6V53 (UPPER)			1	1				1	1	1	1	
	5135355	BRACKET, 8V53					1	1	1					
	5145143	SPACER, 13/32"X1.40" L.	2	2										
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)	2	2										
	181384	BOLT, 3/8"-24X2 3/4" (12.9001)	2	2										
	454933	BOLT, 7/16"-14X1 1/8" (12.9001)			2	2	2	2	2	2	2	2	2	
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	
	442733	BOLT, 1/2"-13X1 1/4" (12.9001)	2	2										
	103321	LOCKWASHER, 3/8" (12.9200)	4	4										
	103322	LOCKWASHER, 7/16" (12.9200)	2	2	4	4	4	4	4	4	4	4	4	
	103323	LOCKWASHER, 1/2" (12.9200)	1	1										
	117049	NUT, 3/8"-24 (12.9120)	2	2										
	5.5120 - NECK, EXPANSION TANK FILLER													
	5118060	NECK, 8V53							1	1	1	1	1	

5.5000A HEAT EXCHANGER OR KEEL COOLING

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	4 4 5	4 4 6	4 4 7	4 4 8	4 4 9	4 5 1	4 5 7	4 8 1	4 8 2	4 8 9	4 9 0
		5.5130 - GASKET, EXPANSION TANK FILLER NECK											
	5118061	GASKET, 8V53							1	1	1	1	1
		5.5140 - CAP, EXPANSION TANK FILLER											
6B	850795	CAP, 4,6,8V53	1	1	1	1	1	1	1	1	1		
	850901	CAP, 6V53										1	1
		5.5190 - TUBE, EXPANSION TANK OVERFLOW											
7B	5135900	TUBE ASSY., 4, 6, 8V53 (DEV L. 17.75" L)	1	1	1	1	1	1	1	1	1	1	1
	225815	ELBOW, 5/16" INV. FL. TUBE 90 DEG. (12.9480)	1	1	1	1	1	1		1	1	1	1
	9432245	ELBOW, 5/16" INV. FL. TUBE 90 DEG. (12.9480)							1				
		5.5200 - CLIP, EXPANSION TANK OVERFLOW TUBE											
	3290459	CLIP (2.5220)	1	1	1	1	1	1	1	1	1	1	1
		5.5378 - GASKET, RAW WATER FLANGE (AT PUMP)											
	5115395	GASKET (5.5410)	1	1	1	1	1	1	1	1	1		
		5.5380 - TUBE, RAW WATER PUMP OUTLET											
7B	5125540	TUBE ASSY., 6V-53			1								
7B	5109705	TUBE ASSY., 6V-53				1							
7B	5136661	TUBE ASSY., 6V-53					1		1				
	5107007	TUBE ASSY., 6V-53								1			
	5107005	TUBE ASSY., 6V-53									1		
	5138746	ELBOW	1										
	5138569	ELBOW		1									
	103647	DRAINCOCK, 1/4" (12.9510)				1							
7B	112578	PLUG, 1/4" PIPE (12.9550)			1								
7B	113177	PLUG, 3/4" PIPE BRASS (12.9550)					1		1				
	179839	BOLT, 3/8"-16X1" (12.9001)			1	1	2		2	2	2		
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)	1	1									
	179849	BOLT, 3/8"-16X2 1/2" (12.9001)	1	1									
	103341	WASHER, 3/8" (12.9190)			2	2	2		2	2	2		
	103321	LOCKWASHER, 3/8" (12.9200)	2	2			2		2				
		5.5430 - TUBE, HEAT EXCHANGER RAW WATER INLET (INTERMEDIATE)											
	5138766	+ TUBE (DEV. L. 23.50") 4-53	1										
	5140384	+ TUBE (DEV. L. 23.80") 4-53		1									
7B	5115502	TUBE (DEV. L. 19.00") 8V-53					1		1				
		+ OBSOLETE.											

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TYPES										
FIG	PART NUMBER	NAME AND DESCRIPTION	4 4 5	4 4 6	4 4 7	4 4 8	4 4 9	4 5 1	4 5 7	4 8 1	4 8 2	4 8 9	4 9 0
		5.5440 - TUBE, HEAT EXCHANGER RAW WATER INLET											
7B	5135498	TUBE ASSY., 6V53			1								
	5125538	+ TUBE ASSY., 6V53				1							
7B	5137343	TUBE ASSY., 8V53 (5.5377)					1		1				
	5107011	TUBE ASSY., 6V53								1			
	5107013	TUBE ASSY., 6V53									1		
	5138743	* ELBOW, 4-53 (5.5550)	1	1									
	186629	BOLT, 5/16"-18X1" (12.9001)				4	4	4		4	4	4	
	103320	LOCKWASHER, 5/16" (12.9200)				4	4	4		4	4	4	
		* OBSOLETE											
		+ NOT SERVICED; FOR SERVICE USE 5135498.											
		5.5460 - GASKET, HEAT EXCHANGER RAW WATER INLET TUBE											
	5158747	GASKET, 6,8V53			1	1	1		1	1	1		
		5.5470 - HOSE, HEAT EXCHANGER RAW WATER INLET TUBE											
	5199780	+ HOSE, 2 3/8" I.D. X 2.76" L. (5.3365)	1	1									
	5199776	+ HOSE (1 3/4" X 2.76" L.) 4-53 (5.3295)	2	2									
	5110373	+ HOSE (2" X 3") 6, 8V53 (5.5330)			1	1	2		2				
	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE (12.9660)	4	4	2	2	4		4				
	5188036	CLAMP, 2 9/16"-3 1/2" DIA. HOSE (12.9660)	2	2									
		+ STD. LENGTH HOSE, CUT TO LENGTH SHOWN.											
		5.5550 - TUBE, HEAT EXCHANGER RAW WATER OUTLET											
6B	5136504	TUBE ASSY., 6,8V53 (5.5440)			1	1	1						
	5119878	FLANGE, 4,8V53	1	1					1	1	1		
	186629	BOLT, 5/16"-18X1" (12.9001)				4	4	4		4	4	4	
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	8	8									
	103320	LOCKWASHER, 5/16" (12.9200)	8	8	4	4	4		4	4	4		
		5.5570 - GASKET, HEAT EXCHANGER RAW WATER OUTLET TUBE											
6B	5158747	GASKET, 4,6,8V53 (5.5460)	1	1	1	1	1		1	1	1		

5.6000A RAW WATER PUMP

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 8	5 3	5 4	5 5	5 6	5 7	5 8
5.6001 - PUMP ASSY., RAW WATER														
A PUMP ASSY. INCLUDES ITEMS IN 5.6010 THRU 5.6320 EXCEPT 5.6220.														
7A,B	5122509	* PUMP ASSY., 2,3,4,6V53	1	1										
7A,B	5115396	PUMP ASSY., 4,6,8V53			1			1		1	1			
7B	5137208	PUMP ASSY., 6V53				1	1					1	1	
	5144197	PUMP ASSY., 4-53							1					
7B	5145578	PUMP ASSY., 2,3,4-53												1
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)							2					
	454933	BOLT, 7/16"-14X1 1/8" (12.9001)	1	1										1
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	1		1	1	1	1		1	1	1	1	
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)	4		4									
	179884	BOLT, 1/2"-13X1 3/8" (12.9001)	4	4		4	4	4		4	4	4	4	4
	103321	LOCKWASHER, 3/8" (12.9200)							2					
	103322	LOCKWASHER, 7/16" (12.9200)	1	1	1									
	103323	LOCKWASHER, 1/2" (12.9200)	4	4	4	4	4	4						
	102635	NUT, 3/8"-16 (12.9120)							2					
* NOT SERVICED. COMPONENTS ARE AVAILABLE; FOR COMPLETE REPLACEMENT USE PUMP ASSY. 5145578.														
5.6010 - HOUSING, RAW WATER PUMP DRIVE														
7A,B	5108174	ADAPTOR, 2,3,4,6V53	1	1										1
7A,B	5193551	ADAPTOR, 4,6,8V53			1	1	1	1		1	1	1	1	
5.6012 - GASKET, RAW WATER PUMP ADAPTOR														
8A	5196513	GASKET, 2,3,4,6V53	1	1										1
8B	5194567	GASKET, 4,6,8V53			1	1	1	1		1	1	1	1	
5.6020 - HOUSING, RAW WATER PUMP IMPELLER														
8A,B	5196517	# BODY, 2,3,4,6V53	1	1										
8A,B	5195411	BODY, 4,6,8V53			1	1	1	1		1	1	1	1	
8A	5199017	BODY, 4-53							1					
8A,B	5199377	BODY, 2,3,4-53												1
8A,B	5193556	PLATE, WEAR 4,6,8V53			1	1	1	1		1	1	1	1	
8A	5195753	PLATE, WEAR 4-53							1					
	5197597	PIN, 3/16"X5/16" DOWEL (12.9290)			1	1	1	1		1	1	1	1	
	179816	BOLT, 5/16"-18X3/4" (12.9001)	3	3										
	186678	BOLT, 3/8"-16X1" (12.9001)			6	6	6	6		6	6	6	6	
	120382	LOCKWASHER, 3/8" (12.9200)	3	AR	6	6	6	AR		6	AR	6	6	
# NOT SERVICED; FOR REPLACEMENT USE 5199377 BODY, PLUS (1) 8920913 COVER, (1) 5199150 SEAL, AND (1) 5199378 SPACER SEAL.														

5.6000A RAW WATER PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 8	5 3	5 4	5 5	5 6	5 7	5 8
5.6025 - RECONDITIONING KIT, RAW WATER PUMP														
	5197225	RECONDITIONING KIT, 2,3,4,6V53	AR	AR				AR						
	5197224	RECONDITIONING KIT, 6,8V53			AR	AR	AR			AR	AR	AR	AR	
	5199850	RECONDITIONING KIT												AR
5.6035 - CAM, RAW WATER PUMP BODY OFFSET														
8A,B	5196695	CAM ASSY., 2,3,4,6V53 (INCLUDES WEAR PLATE)	1	1										1
8B	5193554	CAM, 6,8V53			1	1	1	1		1	1	1	1	
8A	5195899	CAM, 4-53							1					
8A,B	101076	SCREW, #10-32X1/2" FIL. HD. (12.9010)	1	1										1
	101088	SCREW, #12-24X3/8" (12.9001)							1					
8B	114366	SCREW, 1/4"-20X1/2" FIL. HD. (12.9010)				1	1	1	1	1	1	1	1	
5.6090 - COVER, RAW WATER PUMP														
8A,B	5196585	COVER, 2,3,4,6V53 (END)	1	1										
8A,B	5193555	COVER, 4,6,8V53 (END)			1	1	1	1		1	1	1	1	
8A	5199147	COVER, 4-53 (END)							1					
8A	8920913	COVER, 2,3,4-53 (END)												1
8A,B	101075	SCREW, #10-32X3/8" FIL. HD. (12.9010)	6	6					6					6
8B	114366	SCREW, 1/4"-20X1/2" FIL. HD. (12.9010)				5				5	5			
5.6100 - GASKET, RAW WATER PUMP COVER														
8A,B	5193562	GASKET, 4,6,8V53			1	1	1	1		1	1	1	1	
8A	5193603	GASKET, 3,4-53	1	1					1					1
5.6120 - SHAFT, RAW WATER PUMP														
8A,B	5196515	SHAFT, 2,3,4,6V53 (BRONZE)	1	1										1
8A,B	5197653	SHAFT, 2,3,4,6V53 (STAINLESS STEEL)	AR	AR										
8A,B	5193552	SHAFT, 4,6,8V53 (BRASS)			1		1	1		1	1			
8B	5198405	SHAFT, 6V53 (MONEL)					1					1	1	

DETROIT DIESEL

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5.6000A RAW WATER PUMP

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 8	5 3	5 4	5 5	5 6	5 7	5 8
		5.6120 - SHAFT, RAW WATER PUMP (CONT'D)												
	5199151	SHAFT, 4-53							1					
		5.6130 - BEARING, RAW WATER PUMP												
8A	954806	BEARING, 2,3,4,6V53 (N.D. 55504X1Z)	1	1					1					1
8B	954799	BEARING, 4,6,8V53 (N.D. 55506L1Z)			1	1	1	1		1	1	1	1	
		5.6140 - RING, RAW WATER PUMP BEARING RETAINER												
8A	9416358	RING, 2,3,4,6V53	1	1										1
8B	9415285	RING, 4,6,8V53 (LARGE) (2.7470)			1	1	1	1				1	1	
8B	5193569	RING, 4,6,8V53 (SMALL)			1	1	1	1		1	1	1	1	
	5199400	RING, 4-53							1					
	5199152	RING, 4-53							1					
		5.6160 - SEAL, RAW WATER PUMP BEARING												
8A	5195019	SEAL, 2,3,4,6V53	1	1					1					1
8B	5195101	SEAL, 4,6,8V53			1	1	1	1		1	1	1	1	
		5.6170 - SEAL, RAW WATER PUMP SHAFT												
8A	5193599	SEAL ASSY., 2,3,4,6V53	1	1										
8B	5198419	* SEAL ASSY., 4,6,8V53			1	1	1	1		1	1	1	1	
	5199150	SEAL, 3,4-53							1					1
		* INCLUDES ITEMS IN 5.6173 THRU 5.6178.												
		5.6173 - SEAT, RAW WATER PUMP SHAFT SEAL												
8A	5193597	SEAT, 2,3,4,6V53 (SPACER)	1	1										
	5193565	# SEAT, 6,8V53			1									
	5198420	# SEAT ASSY., 4,6,8V53			1	1	1	1		1	1	1	1	
		# NOT SERVICED, FOR COMPLETE REPLACEMENT USE 5198419.												
		5.6175 - RING, RAW WATER PUMP SHAFT SEAL FRICTION												
	5193564	SEAL, 6,8V53 (CARBON)			1	1	1	1		1	1	1	1	

5.6000A RAW WATER PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 8	5 3	5 4	5 5	5 6	5 7	5 8
		5.6176 - RING, RAW WATER PUMP SHAFT SEAL												
A	5193598	RING, 2,3,4,6V53 ("O" SECTION)	1	1										
	5193567	RING, 6,8V53 ("O" SECTION)			1	1	1	1		1	1	1	1	
	5193566	# RING, 6,8V53 (SQUARE SECTION)			1									
		# NOT SERVICED. FOR COMPLETE REPLACEMENT USE 5198419.												
		5.6178 - SPRING, RAW WATER PUMP SHAFT SEAL												
	5193563	WASHER, 6,8V53 (MARCEL)			1	1	1	1		1	1	1	1	
		5.6200 - SLINGER, RAW WATER PUMP SHAFT												
A	5196512	SLINGER, 2,3,4,6V53	1	1										
3	5193676	SLINGER, 6,8V53			1	1	1	1		1	1	1	1	
		5.6220 - REPLACEMENT KIT, RAW WATER PUMP SEAL & IMPELLER												
		INCLUDES 5193553 OR 5193602 IMPELLER IN 5.6230, SEAL ASSY. IN 5.6170 GASKET IN 5.6100. KITS 5197227 AND 5194860 ALSO INCLUDE SCREWS IN 5.6090 AND SEAL RING IN 5.6176.												
	5197227	REPLACEMENT KIT, 2,3,4,6V53	AR	AR										
	5194860	REPLACEMENT KIT, 6,8V53			AR	AR	AR	AR		AR	AR	AR	AR	
	5199851	REPLACEMENT KIT, 2,3,4-53												AR
		5.6230 - IMPELLER, RAW WATER PUMP												
		PUMPS INCLUDE SYNTHETIC RUBBER IMPELLER. FOR COLD WATER OPERATION A NATURAL RUBBER IMPELLER IS AVAILABLE.												
A	5193602	IMPELLER, 2,3,4,6V53 (SYNTHETIC)	1	1					1					1
A	5196629	IMPELLER 2,3,4,6,8V53 (NATURAL) (GREEN STRIPE)	AR	AR										
3	5193553	IMPELLER, 6,8V53 (SYNTHETIC)			1	1	1	1		1	1	1	1	
3	5196628	IMPELLER, 6,8V53 (NATURAL) (GREEN STRIPE)			AR	AR	AR	AR				AR	AR	
		5.6320 - GEAR, RAW WATER PUMP DRIVE												
A	5193576	GEAR, 2,3,4,6,8V53	1	1						1	1			1
	120051	KEY, 5/32"x7/8" WOODRUFF (12.9350)			1									
	5161024	KEY, 5/32"x7/8" WOODRUFF (5.6230)				1	1	1		1	1	1	1	

5.6000A RAW WATER PUMP

			TYPES									
PART			3	4	4	4	5	5	5	5	5	
.FIG . . . NUMBER NAME AND DESCRIPTION			8	9	0	4	5	3	4	5	6	7
						4	8					8
5.6320 - GEAR, RAW WATER PUMP DRIVE (CONT'D)												
8B	103325	LOCKWASHER, 5/8" (12.9200)			1	1	1	1	1	1	1	1
8B	122366	NUT, 5/8"-18 (12.9120)			1	1	1	1	1	1	1	1
5.6350 - GASKET, RAW WATER PUMP												
	5104506	GASKET, 2,3,4,6V53 (1.5040)	1	1								
* FIG. 8A OF 1.0000.												
5.6380 - BRACKET, RAW WATER PUMP MOUNTING												
	5144165	BRACKET, 4-53						1				
	5144167	BRACKET, 4-53						1				
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)						3				
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)						2				
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)						1				
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)						1				
	5150230	WASHER, 3/8"X1 3/16" (3.4120)						2				
	103321	LOCKWASHER, 3/8" (12.9200)						5				
	103322	LOCKWASHER, 7/16" (12.9200)						1				
	102635	NUT, 3/8"-16 (12.9120)						2				
5.6410 - PLATE, RAW WATER PUMP DRIVE												
8A,B	5153449	* @ PLATE, 2,3,4,6V53 (21 TEETH) (1.7630)	1	1	1							
8A,B	5170450	PLATE, 2,3,4,6V71							1	1	1	1
8A,B	5131627	# DISC, 2,3,4,6,8V53 (21 TEETH)	1	1	1	1	1					
8B	5176474	BOLT (1.7630)	4		4	4	4				4	
	5145092	BOLT, 3/8"-24X1.20" (12.5015)							4			
	5145091	BOLT, 3/8"-24X1.38" (12.5015)	4	3			3			3		3
	103321	LOCKWASHER, 3/8" (12.9200)	4		4							
	9413533	NUT, 3/8"-24 SELF-LOCKING (12.9120)		1			1			1		1
	5145431	NUT, 3/8"-24 JAM (12.4037)								1		1
* THRU 2D-16010, 3D-13731, 4D-17088, 6D-7119.												
@ NOT SERVICED, USE 5131627 AND INCLUDE (1) 5143616 COUPLING.												
# EFFECTIVE WITH 2D-16011, 3D-13732, 4D-17089, 6D-7120.												
5.6413 - RETAINER, CAM OR BALANCER GEAR												
8A	5122922	RETAINER (1.7207)	1	1	1		1					
	5122923	STUD (1.7633)		1			1					
	5108836	STUD (1.7631)								1		1

5.6000A RAW WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 8	5 3	5 4	5 5	5 6	5 7	5 8
		5.6413 - RETAINER, CAM OR BALANCER GEAR (CONT'D)												
	124925	NUT, 3/8"-24 (12.9120)		1				1		1				
		5.6420 - COUPLING, RAW WATER PUMP DRIVE												
A,B	3292492	* COUPLING, 2,3,4,6V53 (EXTERNAL GEAR, 23 TEETH) (1.7635)	1	1	1									
A,B	5143616	# COUPLING (EXTERNAL GEAR, 21 TEETH) (1.7635) * NOT SERVICED; USE 5143616 AND INCLUDE (1) 5131627 PLATE. # EFFECTIVE WITH 2D-16011, 3D-13732, 4D-17089, 6D-7120.	1	1	1	1	1	1		1	1	1	1	1
		5.6500 - CONNECTION, RAW WATER PUMP INLET												
	5114776	ELBOW, 4,6V53 (5.5377)				1		1		1	1	1		
	5109936	ELBOW, 6V53 (5.5377)					1						1	
	5128086	ELBOW, 2,4-53 (5.5377)												1
	8517473	ELECTRODE ASSY., 2,3,4-53 (1 1/4" ELECTRODE) (5.5010)												1
	8515841	ELECTRODE ASSY., 4,6,8V71 (INCLUDES 2 1/8" ELECTRODE) (5.5010)			1	1	1	1		1	1	1	1	
	113177	PLUG, 3/4" PIPE BRASS (12.9550)				1		1		1	1	1		
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)												2
	179839	BOLT, 3/8"-16X1" (12.9001)					2						2	
	179847	BOLT, 3/8"-16X2" (12.9001)				2		2		2	2	2		
	103320	LOCKWASHER, 5/16" (12.9200)												2
	103321	LOCKWASHER, 3/8" (12.9200)				2	2	2		2	2	2	2	
		5.6510 - GASKET, RAW WATER PUMP INLET CONNECTION												
	5115395	GASKET, 4,6V53 (5.5410)				1	1	1		1	1	1	1	
		5.6600 - CONE, RAW WATER PUMP CLUTCH												
	5199401	CONE, 4-53							1					

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5.6000A RAW WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 8	5 3	5 4	5 5	5 6	5 7	5 8
		5.6610 - SHIELD, RAW WATER PUMP CLUTCH												
	5199402	SHIELD, 4-53							1					
	5199410	SPRING, 4-53							1					
		5.6620 - PIN, RAW WATER PUMP BALL												
	455972	PIN, 3/16"X1 3/8" ROLL							1					
	455481	PIN, 3/16"X1" ROLL							1					
		5.6630 - KNOB, RAW WATER PUMP HANDLE												
	5199404	KNOB, PUMP HANDLE 4-53							1					
		5.6640 - HANDLE, RAW WATER PUMP CLUTCH												
	5199405	HANDLE, 4-53							1					
		5.6650 - PLUG, RAW WATER PUMP TUBE												
	5199407	PLUG							1					
		5.6660 - SPRING, RAW WATER PUMP GUIDE TUBE												
	5199406	SPRING, GUIDE 4-53							1					
		5.6670 - TUBE, RAW WATER PUMP GUIDE												
	5199409	TUBE, GUIDE 4-53							1					

5.6000A RAW WATER PUMP

PART FIG ... NUMBER ... NAME AND DESCRIPTION			TYPES															
			5 9	6 0	6 1	7 4	8 5	8 6	8 9									
5.6001 - PUMP ASSY., RAW WATER																		
A PUMP ASSY. INCLUDES ITEMS IN 5.6010 THRU 5.6320 EXCEPT 5.6220.																		
'A,B	5115396	PUMP ASSY., 4,6,8V53				1												
'A,B	5145578	PUMP ASSY., 2,3,4,6V53	1	1	1		1											
'A	5144197	PUMP ASSY., 3-53						1										
'B	5107480	PUMP ASSY., 6,8V53							1									
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)					4											
	179884	BOLT, 1/2"-13X1 3/8" (12.9001)	4	4	4	4			4									
	454933	BOLT, 7/16"-14X1 1/8" (12.9001)	1	1	1		1											
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)				1			1									
5.6010 - HOUSING, RAW WATER PUMP DRIVE																		
7A,B	5108174	ADAPTOR, 2,3,4,6V53	1	1	1		1											
7A,B	5193551	ADAPTOR, 4,6,8V53				1			1									
5.6012 - GASKET, RAW WATER PUMP ADAPTOR																		
3A,B	5196513	GASKET, 2,3,4,6V53	1	1	1		1											
3A,B	5194567	GASKET, 4,6,8V53				1			1									
5.6020 - HOUSING, RAW WATER PUMP IMPELLER																		
3A	5199017	BODY, 3-53						1										
3A,B	5195411	BODY, 2,3,4,6V53				1			1									
3A,B	5199377	BODY, 4,6,8V53	1	1	1		1											
3A	5193556	PLATE, WEAR 4-53				1			1									
3A	5195753	PLATE, WEAR 3-53							1									
	5197597	PIN, 3/16"X5/16" DOWEL				1			1									
	5195752	PIN, DOWEL (5.6010)							1									
	186678	BOLT, 3/8"-16X1" (12.9001)				6			6									
	120382	LOCKWASHER, 3/8" (12.9200)				6			6									
5.6025 - RECONDITIONING KIT, RAW WATER PUMP																		
	5197224	RECONDITIONING KIT, 6,8V53				AR			AR									
	5199850	RECONDITIONING KIT, 2,3,4-53	AR	AR	AR		AR	AR	AR									
5.6035 - CAM, RAW WATER PUMP BODY OFFSET																		
8A,B	5196695	CAM ASSY., 2,3,4,6V53 (INCLUDES WEAR PLATE)	1	1			1											
8B	5193554	CAM, 6,8V53				1			1									
8A	5195899	CAM, 3-53							1									
8A	101076	SCREW, #10-32X1/2" FIL. HD. (12.9010)	1	1	1		1											
	101088	SCREW, #12-24 X 3/8" FIL. HD. (12.9010)							1									
5.6090 - COVER, RAW WATER PUMP																		
8A,B	5193555	COVER, 4,6,8V53 (END)				1			1									
8A	8920913	COVER, 2,3,4-53 (END)	1	1	1		1											
8A	5199147	COVER, 3-53							1									
8A	101075	SCREW, #10-32 X 3/8" FIL. HD. (12.9010)	6	6	6		6	6										

5.6000A RAW WATER PUMP

			TYPES															
FIG	PART NUMBER	NAME AND DESCRIPTION	5 9	6 0	6 1	7 4	8 5	8 6	8 9									
		5.6090 - COVER, RAW WATER PUMP (CONT'D)																
8B	114366	SCREW, 1/4"-20X1/2" FIL. HD. (12.9010)				5			6									
		5.6100 - GASKET, RAW WATER PUMP COVER																
8A,B	5193562	GASKET, 4,6,8V53				1			1									
8A,B	5193603	GASKET, 3,4,6V53	1	1	1		1	1										
		5.6120 - SHAFT, RAW WATER PUMP																
8A,B	5196515	SHAFT, 2,3,4,6V53 (BRONZE)	1	1	1		1											
8A,B	5193552	SHAFT, 4,6,8V53 (BRASS)				1			1									
	5199151	SHAFT, 3-53						1										
		5.6130 - BEARING, RAW WATER PUMP																
8A,B	954806	BEARING, 2,3,4,6V53 (N.D. 55504X1Z)	1	1	1		1	1										
8A,B	954799	BEARING, 4,6,8V53 (N.D. 55506L1Z)				1			1									
		5.6140 - RING, RAW WATER PUMP BEARING RETAINER																
8A,B	9416358	RING, 2,3,4,6V53	1	1	1		1											
8A,B	5193569	RING, 4,6,8V53 (SMALL)				1			1									
	5199400	RING, 3-53							1									
	5199152	RING, 3-53							1									
		5.6160 - SEAL, RAW WATER PUMP BEARING																
8A	5195019	SEAL, 2,3,4,6V53	1	1	1		1	1										
8B	5195101	SEAL, 4,6,8V53				1			1									
		5.6170 - SEAL, RAW WATER PUMP SHAFT																
8B	5198419	* SEAL ASSY., 4,6,8V53				1			1									
	5199150	SEAL, 3,4,6V53	1	1	1		1	1										
	5199378	SPACER, SEAL 2,3,4,6V-53	1	1	1		1											
		* INCLUDES ITEMS IN 5.6173 THRU 5.6178.																
		5.6173 - SEAT, RAW WATER PUMP SHAFT SEAL																
	5198420	SEAT ASSY., 4,6,8V53				1			1									

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5.6000A RAW WATER PUMP

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES																
			5 9	6 0	6 1	7 4	8 5	8 6	8 9										
		5.6175 - RING, RAW WATER PUMP SHAFT SEAL FRICTION																	
	5193564	SEAL, 6,8V53 (CARBON)				1			1										
		5.6176 - RING, RAW WATER PUMP SHAFT SEAL																	
	5193567	RING, 6,8V53 ("O" SECTION)				1			1										
		5.6178 - SPRING, RAW WATER PUMP SHAFT SEAL																	
	5193563	WASHER, 6,8V53 (MARCEL)				1			1										
	5193667	WASHER (W/PUMP SHADT)							1										
		5.6200 - SLINGER, RAW WATER PUMP SHAFT																	
3B	5193676	SLINGER, 6,8V53				1			1										
		5.6220 - REPLACEMENT KIT, RAW WATER PUMP SEAL AND IMPELLER																	
		INCLUDES 5193553 OR 5193602 IMPELLER IN 5.6230, SEAL ASSY. IN 5.6170, AND GASKET IN 5.6100. KITS 5197227 AND 5194860 ALSO INCLUDE SCREWS IN 5.6090 AND SEAL RING IN 5.6176.																	
	5194860	REPLACEMENT KIT, 6,8V53					AR												
	5199851	REPLACEMENT KIT, 2,3,4-53	AR	AR	AR			AR	AR	AR									
		5.6230 - IMPELLER, RAW WATER PUMP																	
		PUMPS INCLUDE SYNTHETIC RUBBER IMPELLER. FOR COLD WATER OPERATION A NATURAL RUBBER IMPELLER IS AVAILABLE.																	
8A	5193602	IMPELLER, 2,3,4,6V53 (SYNTHETIC)	1	1	1		1	1											
8B	5193553	IMPELLER, 6,8V53 (SYNTHETIC)				1			1										
		5.6320 - GEAR, RAW WATER PUMP DRIVE																	
8A	5193576	GEAR, 2,3,4,6,8V53	1	1	1		1		1										
	5161024	KEY, 5/32"X7/8" WOODRUFF (5.6230)				1			1										
8B	103325	LOCKWASHER, 5/8" (12.9200)				1			1										
8B	122366	NUT, 5/8"-18 (12.9120)				1			1										

5.6000A RAW WATER PUMP

PART		TYPES															
FIG	NUMBER	NAME AND DESCRIPTION	5 9	6 0	6 1	7 4	8 5	8 6	8 9								
		5.6350 - GASKET, RAW WATER PUMP															
	5122648	GASKET, 2,3,4-53 (1.5040)	1	1	1		1										
		5.6410 - PLATE, RAW WATER PUMP DRIVE															
8A,B	5170450	PLATE, 2,3,4,6V53	1	1	1	1	1		1								
	5145092	BOLT, 3/8"-24X1.20" (12.5015)				4	4		4								
	5145091	BOLT, 3/8"-24X1.38" (12.5015)	4	3	4												
	9413533	NUT, 3/8"-24 SELF-LOCKING (12.9120)		1													
	5145431	NUT, 3/8"-24 JAM (12.4037)		1													
		5.6413 - RETAINER, CAM OR BLANCER GEAR															
	5108836	STUD, 3/8"-24X1 3/4" (12.5015)		1													
		5.6420 - COUPLING, RAW WATER PUMP DRIVE															
8A,B	5143616	# COUPLING (EXTERNAL GEAR, 21 TEETH) (1.7635)	1	1	1	1	1		1								
		# EFFECTIVE WITH 2D-16011, 3D-13732, 4D-17089, 6D-7120.															
		5.6450 - SPACER, RAW WATER PUMP DRIVE															
	5140814	SPACER (12.5015)	1		1												
		5.6500 - CONNECTION, RAW WATER PUMP INLET AT GEAR BOX															
	5109936	ELBOW, 6V53 (5.5377)				1											
	5128086	ELBOW, 2,4-53 (5.5377)	1														
	5121043	ELBOW, 3,4,6V53 (5.5377)		1	1		1										
	5114776	ELBOW, 6,8V53 (5.5377)							1								
	8517473	ELECTRODE ASSY., 2,3,4,6V53 (1 1/4" ELECTRODE) (5.5010)	1	1	1		1										
	8515841	ELECTRODE ASSY., 4,6,8V53 (INCLUDES 2 1/8" ELECTRODE) (5.5010)				1			1								
	113177	PLUG, 3/4" PIPE (12.9550)							1								
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)	2						1								
	179830	BOLT, 5/16"-18X3" (12.9001)		2	2		2										
	179839	BOLT, 3/8"-16X1" (12.9001)					2										
	179847	BOLT, 3/8"-16X2" (12.9001)							2								
	103320	LOCKWASHER, 5/16" (12.9200)	2	2	2		2										
	103321	LOCKWASHER, 3/8" (12.9200)				2			2								
		5.6510 - GASKET, RAW WATER PUMP INLET CONNECTION															
	5115395	GASKET (5.6410)				1											

5.6000A RAW WATER PUMP

PART		TYPES															
FIG	NUMBER	NAME AND DESCRIPTION															
		5 9	6 0	6 1	7 4	8 5	8 6	8 9									
	5.6600 - CONE, RAW WATER PUMP CLUTCH																
5199401	CONE, 3-53						1										
	5.6610 - SHIELD, RAW WATER PUMP CLUTCH																
5199402	SHIELD, 3-53						1										
	5.6620 - PIN, RAW WATER PUMP ROLL																
455972	PIN, 3/16" X 1 3/8" ROLL						1										
455481	PIN, 3/16" X 1" ROLL						1										
	5.6630 - KNOB, RAW WATER PUMP HANDLE																
5199404	KNOB, PUMP HANDLE 3-53						1										
	5.6640 - HANDLE, RAW WATER PUMP CLUTCH																
5199405	HANDLE, 3-53						1										
	5.6650 - PLUG, RAW WATER PUMP TUBE																
5199407	PLUG						1										
	5.6660 - SPRING, RAW WATER PUMP GUIDE TUBE																
5199406	SPRING, GUIDE 3-53						1										
	5.6670 - TUBE, RAW WATER PUMP GUIDE																
5199409	TUBE, GUIDE 3-53						1										
	5.6680 - SPRING, RAW WATER PUMP HANDLE																
5199410	SPRING						1										

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5.7000A WATER FILTER

			TYPES											
..FIG	PART NUMBER	NAME AND DESCRIPTION	1 2	1 5	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 5	2 6	2 8
5.7001 - FILTER ASSY., WATER														
A FILTER ASSY. INCLUDES ITEMS IN 5.7013 THRU 5.7045.														
9A,B	2338846	FILTER ASSY. (PERRY)	1				1	1	1	1	1	1	1	1
9A,B	5188110	FILTER ASSY.		1	1	1							1	
	186629	BOLT, 5/16"-18X1" (12.9001)		2										
	186654	BOLT, 5/16"-24X1 1/8" (12.9001)	2		2	2	2	2	2	2	2	2	2	
	120393	WASHER, 5/16" (12.9190)	2		2		2	2	2	2	2			
	103320	LOCKWASHER, 5/16" (12.9200)	2	2	2	2	2	2	2	2	2	2	2	
	114493	NUT, 5/16"-24 (12.9120)	2		2	2	2	2	2	2	2	2	2	
5.7013 - BODY, WATER FILTER														
9A	5194628	BODY	1				1	1	1	1	1	1		1
9A	9033035	BODY		1	1	1							1	
9A	112578	PLUG, 1/4" PIPE BRASS (12.9550)	1				1	1	1	1	1	1		1
	5145014	PLUG, 3/8" PIPE BRASS (12.9550)		1	1	1							1	
5.7020 - ELEMENT, WATER FILTER														
INCLUDES GASKET IN 5.7035.														
9A	5199379	ELEMENT (4" DIA. X 3 3/16" L.)	1				1	1	1	1	1	1		1
9A	5199322	ELEMENT (4 7/8" DIA. X 3 3/16" L.)		1	1	1							1	
5.7023 - PLATE, WATER FILTER SUMP														
9A	5194613	PLATE	1				1	1	1	1	1	1		1
9A	5199601	PLATE		1	1	1							1	
5.7026 - SPRING, WATER FILTER														
9A	5194625	SPRING		1	1	1							1	
9A	2293485	SPRING	1				1	1	1	1	1	1		1
5.7034 - COVER, WATER FILTER														
9A	5194615	COVER	1				1	1	1	1	1	1		1
9A	2453224	COVER		1	1	1							1	
	5145014	PLUG, 3/8" SQ. HD. (12.9550)	1	1	1	1	1	1	1	1	1	1	1	1
9A	2293482	BOLT ASSY. (WITH WASHER)	2	2	2	2	2	2	2	2	2	2	2	2
5.7035 - GASKET, WATER FILTER COVER														
9A	5197437	GASKET	1				1	1	1	1	1	1		1
9A	5197436	GASKET		1	1	1							1	

5.7000A WATER FILTER

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 2	1 5	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 5	2 6	2 8
5.7043 - PLATE, WATER FILTER UPPER														
3A	2293823	PLATE	1				1	1	1	1	1	1	1	1
3A	2293483	PLATE		1	1	1							1	
5.7045 - PLATE, WATER FILTER LOWER														
3A	5199600	PLATE (ALUM.)	1				1	1	1	1	1	1	1	1
3A	5199601	PLATE (ALUM.)		1	1	1							1	
5.7080 - BRACKET, WATER FILTER MOUNTING														
3B	5128886	BRACKET	1		1									
3B	5109181	BRACKET				2					2		2	
3B	5128526	BRACKET (REAR)					1	1						
3B	5128527	BRACKET (FRONT)					1	1						
3B	5128831	* BRACKET							1					
3B	5108466	@ BRACKET							1					
3B	5128832	+ BRACKET								1				
3B	5108466	+ BRACKET								1				
3B	5109181	BRACKET										1		
	5175705	SPACER (8.3826)	2		2				2	2				
	5113488	SPACER (2.9410)									4	2	4	
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)				4								
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)												
	446597	BOLT, 5/16"-18X6 1/2" (12.9001)												
	179847	BOLT, 3/8"-16X2" (12.9001)	2		2									
	186283	BOLT, 5/8"-16X3 1/2" (12.9001)					2	2						
	103321	LOCKWASHER, 3/8" (12.9200)	AR		AR									
		* THRU 4D-4841 NOT SERVICED; USE ITEMS MARKED @. @ EFFECTIVE WITH 4D-4842. + OBSOLETE.												
5.7090 - HOSE, WATER FILTER INLET														
9B	5135293	* HOSE, 12 1/2" L X 5/8" I.D. (2.5060)	1		1		1	1						
9B	5135293	* HOSE, 30 1/2" L X 5/8" I.D. (2.5060)		1										
9B	5135293	* HOSE, 22" L X 5/8" I.D. (2.5060)				1					1			
9B	5135293	* HOSE, 11 1/2" L X 5/8" I.D. (2.5060)							1	1				
9B	5135293	* HOSE, 15" L X 5/8" I.D. (2.5060)							1	1				
9B	5189496	HOSE (#10X36"L)										1	1	
9B	3116581	VALVE, SHUTOFF (5.7100)	1	1	1	1	1	1	1	1	1	1	1	1
	116332	BUSHING, 3/8"x1/4" RED. (12.9570)				1					1			1
	142269	BUSHING, 1/2"x3/8" RED. (12.9570)												1
	9432245	ELBOW, 5/16"-90 DEG. INV. FL TUBE, 1/4" P.T. (12.9480)				1					1			

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5.7000A WATER FILTER

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			1 2	1 5	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 5	2 6	2 8
		5.7090 - HOSE, WATER FILTER INLET (CONT'D)												
	111316	ELBOW, 3/8"-90 DEG. STREET (12.9590)				1		1	1	1	1	1	1	
	144128	ELBOW, 3/8" PIPE 90 DEG. (12.9600)												1
	3133153	CONNECTOR, 3/8" HOSE (12.4085)	1	1	1	1	1	1	1	1	1	1	1	
	9139801	CLAMP, 9/16"-1 1/16" DIA. HOSE (12.9660)	2	2	2	2	2	2	2	2	2	2	2	
	5115097	COVER (AT CYLINDER BLOCK) (1.1060)	1		1	1	1	1			1	1	1	
	5155464	BRACKET, CLIP (7.1582)										1	1	
	5165244	CLIP (4.8040)										1	1	
	103647	DRAINCOCK, 1/4" (12.9510)												1
	121207	NIPPLE, 3/8"x1" PIPE (12.9560)		1										1
	120280	TEE, 3/8" PIPE (12.9616)		1										
	179816	BOLT, 5/16"-18X3/4" (12.9001)	2		2	2	2	2		2	2	2	2	
	181333	BOLT, 5/16"-24X5/8" (12.9001)									1	1	1	
	103320	LOCKWASHER, 5/16" (12.9200)	2		2		AR	2			AR	AR	AR	
	114493	NUT, 5/16"-24 (12.9120)										1	1	
		* STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												
		5.7100 - HOSE, WATER FILTER OUTLET												
9B	5129867	* HOSE, #4 X 10 1/2" L (7.4075)	1		1		1							
9B	5129867	* HOSE, #4 X 30" L (7.4075)		1					1	1				
9B	5129867	* HOSE, #4 X 16" L (7.4075)				1					1			
9B	5129867	* HOSE, #4 X 8" L (7.4075)						1						
9B	5129867	@ * HOSE, #4 X 26 3/4" L (7.4075)							1	1				
9B	5129867	* HOSE, #4 X 35" L (7.4075)										1	1	
	190367	ELBOW, 1/4"-90 DEG. STREET (12.9590)			1				1	1				
	444042	ELBOW, 3/8"-90 DEG. STREET (12.9590)										1	1	
	116332	BUSHING, 3/8"x1/4" RED. (12.9570)	1	1	1		1	1	1	1		1	1	
	144045	BUSHING, 1/2"x1/4" PIPE RED. (12.9570)			1									
	5186740	TEE (4.3001)							1	1				
	1595838	VALVE (1/4"P.T. SHUTOFF) (4.7001)	1	1	1	1	1	1	1	1	1	1	1	
	5189292	FITTING, 1/4"-18 HOSE	1	1	1	1	1	1	1	1		1	1	
	5189294	FITTING, 1/2"-20 HOSE	1	1	1	2	1	1	1	1	2	1	1	
	5151108	CLIP (12.4095)							1	1				
	140571	CLIP (12.9630)										1	1	
		@ THRU 4D-4841.												
		* STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												

5.7000A WATER FILTER

PART			TYPES																
FIG	NUMBER	NAME AND DESCRIPTION	3 0	3 2	3 3	3 4	4 0	4 1											
5.7001 - FILTER ASSY., WATER																			
A FILTER ASSY. INCLUDES ITEMS IN 5.7013 THRU 5.7045.																			
1A,B	2338846	FILTER ASSY. (PERRY)	1	1			1	1											
1A,B	5188110	FILTER ASSY.				1													
	100014	BOLT, 5/16"-24X1" (12.9001)	2			2													
	186505	BOLT, 5/16"-24X1 1/4" (12.9001)					2	2											
	103320	LOCKWASHER, 5/16" (12.9200)	2			2	2	2											
	114493	NUT, 5/16"-24 (12.9120)	2			2	2	2											
5.7013 - BODY, WATER FILTER																			
9A	5194628	BODY	1	1			1	1											
9A	9033035	BODY				1													
	118536	DRAINCOCK, 3/8" (12.9510)					1	1											
9A	112578	PLUG, 1/4" PIPE BRASS (12.9550)		1			1	1											
	112304	PLUG, 3/8" PIPE BRASS (12.9550)	1			1													
5.7020 - ELEMENT, WATER FILTER																			
INCLUDES GASKET IN 5.7035.																			
9A	5199379	ELEMENT (4" DIA. X 3 3/16" L.)	1	1			1	1											
9A	5199322	ELEMENT (4 7/8" DIA. X 3 3/16"L.)				1													
5.7023 - PLATE, WATER FILTER SUMP																			
9A	5194613	PLATE	1	1			1	1											
9A	5199601	PLATE				1													
5.7026 - SPRING, WATER FILTER																			
9A	2293485	SPRING	1				1	1											
5.7034 - COVER, WATER FILTER																			
9A	5194615	COVER	1	1			1	1											
9A	2453224	COVER				1													
9A	2293482	BOLT ASSY. (WITH WASHER)	2	2		2	2	2											
5.7035 - GASKET, WATER FILTER COVER																			
9A	5197437	GASKET	1	1			1	1											
9A	5197436	GASKET				1													

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5.7000A WATER FILTER

PART			TYPES									
FIG	NUMBER	NAME AND DESCRIPTION	30	32	33	34	40	41				
		5.7043 - PLATE, WATER FILTER UPPER										
9A	2293823	PLATE	1	1			1	1				
9A	2293483	PLATE				1						
		5.7045 - PLATE, WATER FILTER LOWER										
9A	5199600	PLATE (ALUM.)	1	1			1	1				
9A	5199601	PLATE (ALUM.)				1						
		5.7080 - BRACKET, WATER FILTER MOUNTING										
9B	5139139	BRACKET	1			1						
9B	5139183	BRACKET			1							
	5147342	BRACKET					1	1				
	186629	BOLT, 5/16"-18X1" (12.9001)	3			3						
	179838	BOLT, 3/8"-16X7/8" (12.9001)			1							
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)			2							
	186725	BOLT, 1/2"-13X1 1/2" (12.9001)					2	2				
	103321	LOCKWASHER, 3/8" (12.9200)			3							
	103323	LOCKWASHER, 1/2" (12.9200)					2	2				
		5.7081 - GASKET, WATER FILTER MOUNTING BRACKET										
	5125837	GASKET (7.1595)			1							
	5175882	GASKET (4.4115)			1							
		5.7090 - HOSE, WATER FILTER INLET										
9B	5189496	HOSE, #10X36" L.	1	1		1						
9B	5123318	HOSE, 47" LX13/32" I.D. (4.4330)		1								
	5147568	HOSE, #6X10" L.					1	1				
	5147569	HOSE, #6X11 1/2" L. (4.4329)					1					
9B	3116561	VALVE, SHUTOFF (5.7100)	1			1						
	5169649	VALVE, SHUTOFF (2.5006)					1					
	116332	BUSHING, 3/8"X1/4" RED. (12.9570)					1	1				
	111316	ELBOW, 3/8"-90 DEG. STREET (12.9590)	1	1		1						
	144128	ELBOW, 3/8" PIPE 90 DEG. (12.9600)					1					
	8924217	ELBOW, 3/8" TUBE 90 DEG. (12.9480)					1	1				
	3133153	CONNECTOR, 3/8" HOSE (12.4085)	1	1		1						
	9139801	CLAMP, 9/16"-1 1/16" DIA. HOSE (12.9660)	2	2		2						
	5115097	COVER (AT CYLINDER BLOCK) (1.1060)	1	1		1						
	5155464	BRACKET, CLIP (7.1582)	1			1						
	5165244	CLIP (4.8040)	1			1						

5.7000A WATER FILTER

PART		TYPES														
FIG	NUMBER	NAME AND DESCRIPTION	3 0	3 2	3 3	3 4	4 0	4 1								
		5.7090 - HOSE, WATER FILTER INLET (CONT'D)														
	121207	NIPPLE, 3/8"X1" PIPE (12.9560)					1									
	8924177	TEE, 3/8"-18 (12.9616)					1									
	179816	BOLT, 5/16"-18X3/4" (12.9001)	2	2		2										
	181333	BOLT, 5/16"-24X5/8" (12.9001)	1			1										
	103320	LOCKWASHER, 5/16" (12.9200)	AR			AR										
	120376	NUT, 5/16"-18 (12.9120)	1			1										
		5.7100 - HOSE, WATER FILTER OUTLET														
9B	5129867	* HOSE, #4X35" L. (7.4075)	1			1										
	5129867	* HOSE, #4X45 1/4" L. (7.4075)		1												
	5147572	HOSE, #6X7 1/2" L. (2.5149)					1	1								
	5122663	ELBOW (5.3430)						1								
	8924175	ELBOW, 3/8"-90 DEG. STREET (12.9590)	1			1										
	8924217	ELBOW, 3/8" TUBE 90 DEG. (12.9480)					1	1								
	116332	BUSHING, 3/8"X1/4" RED. (12.9570)	1	1		1	1	1								
	5186740	TEE (4.3001)		1												
	1595836	VALVE (1/4"P.T. SHUTOFF) (4.7001)	1	1		1										
	5169649	VALVE, SHUTOFF (2.5006)					1	1								
	5189292	FITTING, 1/4"-18 HOSE	1	1		1										
	5189294	FITTING, 1/2"-20 HOSE	1	1		1										
	140571	CLIP, 1/2" TUBE 5/16" BOLT HOLE (12.9630)	1			1										
		* STD. LENGTH HOSE. CUT TO LENGTH SHOWN.														

GROUP NOMENCLATURE

1.0000	ENGINE OVERHAUL ACCESSORIES	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.3000B	Water Connections
1.1000A	Air Box Orifice	5.4000A	Fan
1.1000B	Cylinder Head	5.4000B	Fan Shroud
1.2000A	Engine Lifter Bracket	5.5000A	Heat Exchanger or Keel Cooling
1.2000B	Crankshaft, Oil Sock and Bearings	5.6000A	Raw Water Pump
1.3000A	Crankshaft Front Cover	5.7000A	Water Filter
1.3000B	Vibration Damper		
1.3000C	Crankshaft Pulley		
1.3000D	Crankshaft Pulley Bolt		
1.4000A	Hydrolift		
1.5000A	Hydrolift Housing		
1.5000B	Hydrolift Housing Adapter		
1.6000	Connecting Rod and Piston		
1.7000	Camshaft and Gear Train		
1.7000A	Balance Weight Cover		
1.7000B	Accessory Drive		
1.8000	Valve Hyster Operating Mechanism		
1.8000A	Rocker Cover		
2.0000	FUEL SYSTEM		
2.1000A	Fuel Injector		
2.1000B	Electronic Injector Controls		
2.2000	Fuel Pump		
2.3000A	Fuel Pump Drain		
2.4000A	Fuel Filter and Strainer		
2.5000A	Fuel Filter and Strainer (Twin and Quad)		
2.6000	Fuel Manifold and/or Connections		
2.6000A	Dual Fuel System		
2.6000B	Fuel Lines and Fuel Control		
2.6000C	Fuel Lines and Fuel Control (Twin and Quad)		
2.6000D	Fuel Tank		
2.6000E	Electric Governor		
2.7000A	Mechanical Governor		
2.8000A	Hydraulic Governor		
2.8000B	Injector Controls		
2.8000C	Injector Controls (Twin and Quad)		
2.8000D	Throttle Controls		
2.8000E	Throttle Controls (Twin and Quad)		
2.9000	AIR SYSTEM		
2.1000A	Air Cleaner and/or Adapter		
2.2000A	Air Filter		
2.3000A	Air Filter Housing		
2.3000B	Air Intake Manifold		
2.4000	Blower and Drive		
2.4000A	Blower Drive Shaft		
2.4000B	Blower End Plate Cover		
2.5000A	Turbocharger, Intercooler, and Aftercooler		
3.0000	LUBRICATING SYSTEM		
3.1000A	Oil Pump		
3.1000B	Oil Distribution System		
3.1000C	Oil Pressure Regulator		
3.2000A	Oil Filter		
3.3000B	Oil Filter Lines		
3.4000A	Oil Cooler, Air, Marine Gear Lines		
3.5000A	Oil Pan		
3.6000A	Oilpan		
3.7000A	Oil Pan		
3.8000A	Valvebody System		
4.0000	COOLING SYSTEM		
4.1000	Fresh Water Pump		
4.1000A	Fresh Water Pump Cover		
4.1000B	Water Pump Flange and/or Inlet		
4.2000B	Thermostat		
4.3000C	Water System Tube		
4.3000A	Radiator		
5.0000	COOLING SYSTEM (CONT'D)		
5.3000B	Water Connections		
5.4000A	Fan		
5.4000B	Fan Shroud		
5.5000A	Heat Exchanger or Keel Cooling		
5.6000A	Raw Water Pump		
5.7000A	Water Filter		
6.0000	EXHAUST SYSTEM		
6.1000A	Exhaust Manifold and/or Connections		
6.2000A	Exhaust Muffler and/or Connections		
7.0000	ELECTRICAL INSTRUMENTS		
7.1000A	Battery Charging Generator		
7.2000A	Battery Cables		
7.2000B	Automatic Starting		
7.2000C	Automatic Starting (Twin and Quad)		
7.3000A	Starting Motor		
7.4000A	Instruments		
7.4000B	Instruments (Twin and Quad)		
7.4000C	Tachometer Drive		
7.4000D	Tachometer Drive (Twin and Quad)		
7.4000E	Shutoff, Alarm and O.S. Governor		
7.4000F	Shutoff, Alarm and O.S. Governor (Twin and Quad)		
7.5000A	Power Generator		
7.6000A	Control Cabinet		
7.6000B	Control Cabinet (Twin and Quad)		
7.7000A	Wiring Harness		
7.8000A	Air Heater		
7.8000B	Air Heater (Twin and Quad)		
7.10000A	Hydraulic Governor Solenoid		
8.0000	POWER TAKE-OFF		
8.1000A	Power Take-off and/or Clutch		
8.1000B	Power Take-off and/or Clutch (Twin and Quad)		
8.3000A	Torque Converter		
8.3000B	Torque Converter (Twin and Quad)		
8.3000C	Transmission Lines		
9.0000	TRANSMISSION AND PROPULSION		
9.1000A	Hydraulic Marine Gear		
9.1000B	Hydraulic Marine Gear (Twin and Quad)		
9.2000A	Reverse and Reduction Gear (mechanical)		
9.3000A	Power Transfer Gear		
9.3000B	Power Transfer Gear (Twin and Quad)		
9.4000	Transmission—Highway		
9.7000	Transmission—Off-highway		
9.8000	Transmission—Rail Car		
10.0000	SHEET METAL		
10.1000A	Engine Hood		
11.0000	ENGINE MOUNTING		
11.1000A	Engine Mounting and Base		
11.1000B	Engine Mounting and Base (Twin and Quad)		
12.0000	MISCELLANEOUS		
12.2000A	Bilge Pump		
12.3000A	Vacuum Pump		
12.4000A	Air Compressor		
12.5000A	Hydraulic Pump		
12.6000A	Gasoline Starter		
12.6000B	Air Starter		
12.6000C	Cold Weather Starting Aid		
12.6000D	Hydraulic Starter		
12.6000E	Hydraulic Starter Accessories		
12.6000F	Supplies		
12.8000E	Fabrication Material		
12.8000F	Miscellaneous Service Kits and Sets		
12.8000G	Miscellaneous Service Parts		

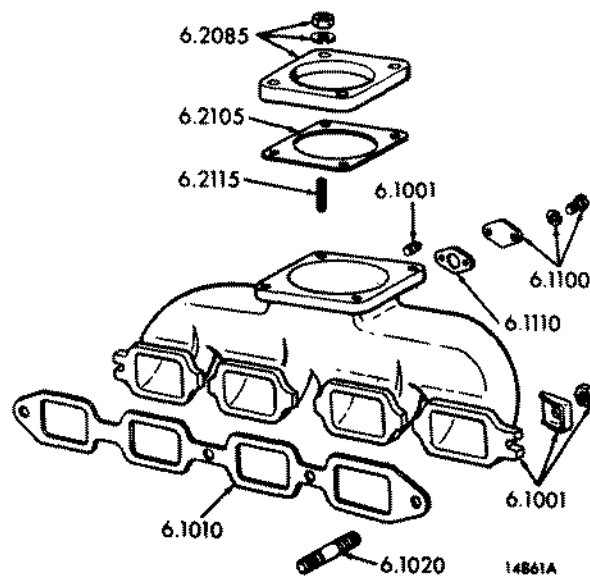


FIG. 1A EXHAUST MANIFOLD (Center Outlet)

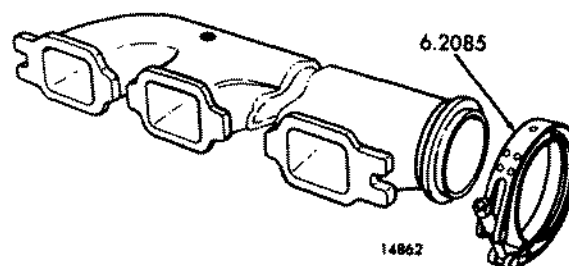


FIG. 1B EXHAUST MANIFOLD (End Outlet)

Figs. 1A & 1B of 6.0000

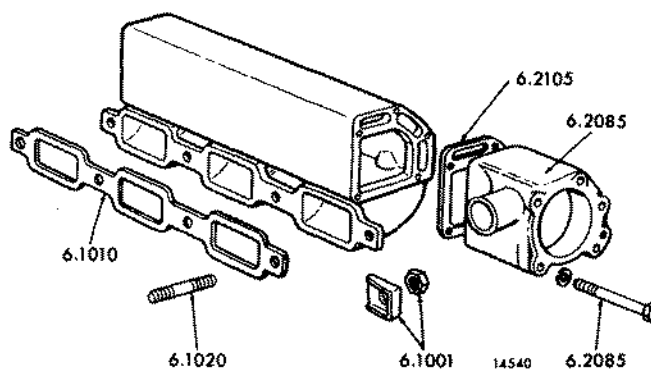


FIG. 1C EXHAUST MANIFOLD (Water Cooled)

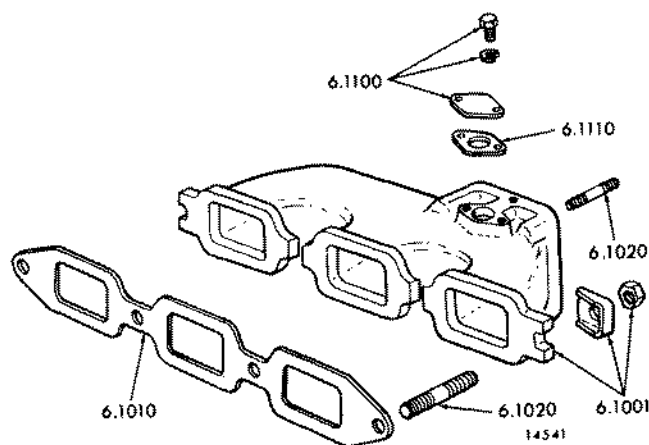


FIG. 1D EXHAUST MANIFOLD (Side Outlet)

Figs. 1C & 1D of 6.0000

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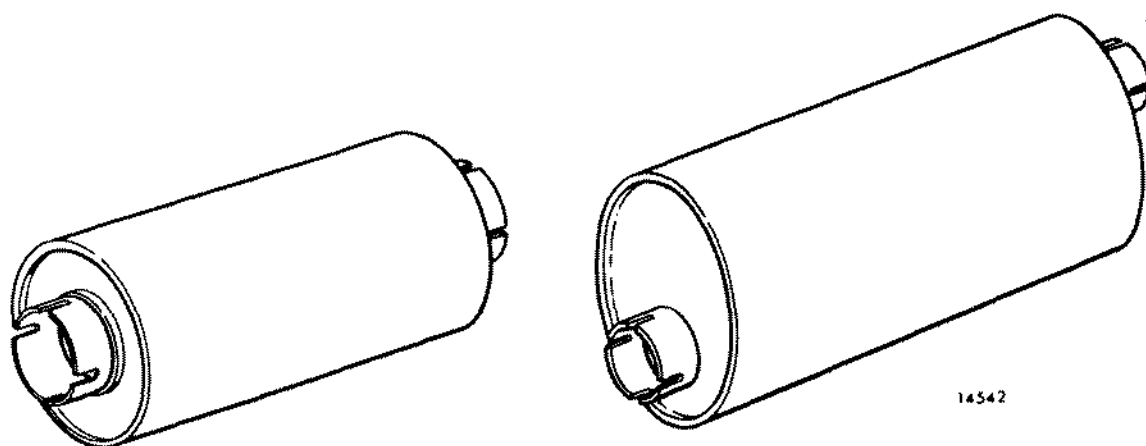


FIG. 2A EXHAUST MUFFLER (6.2001)

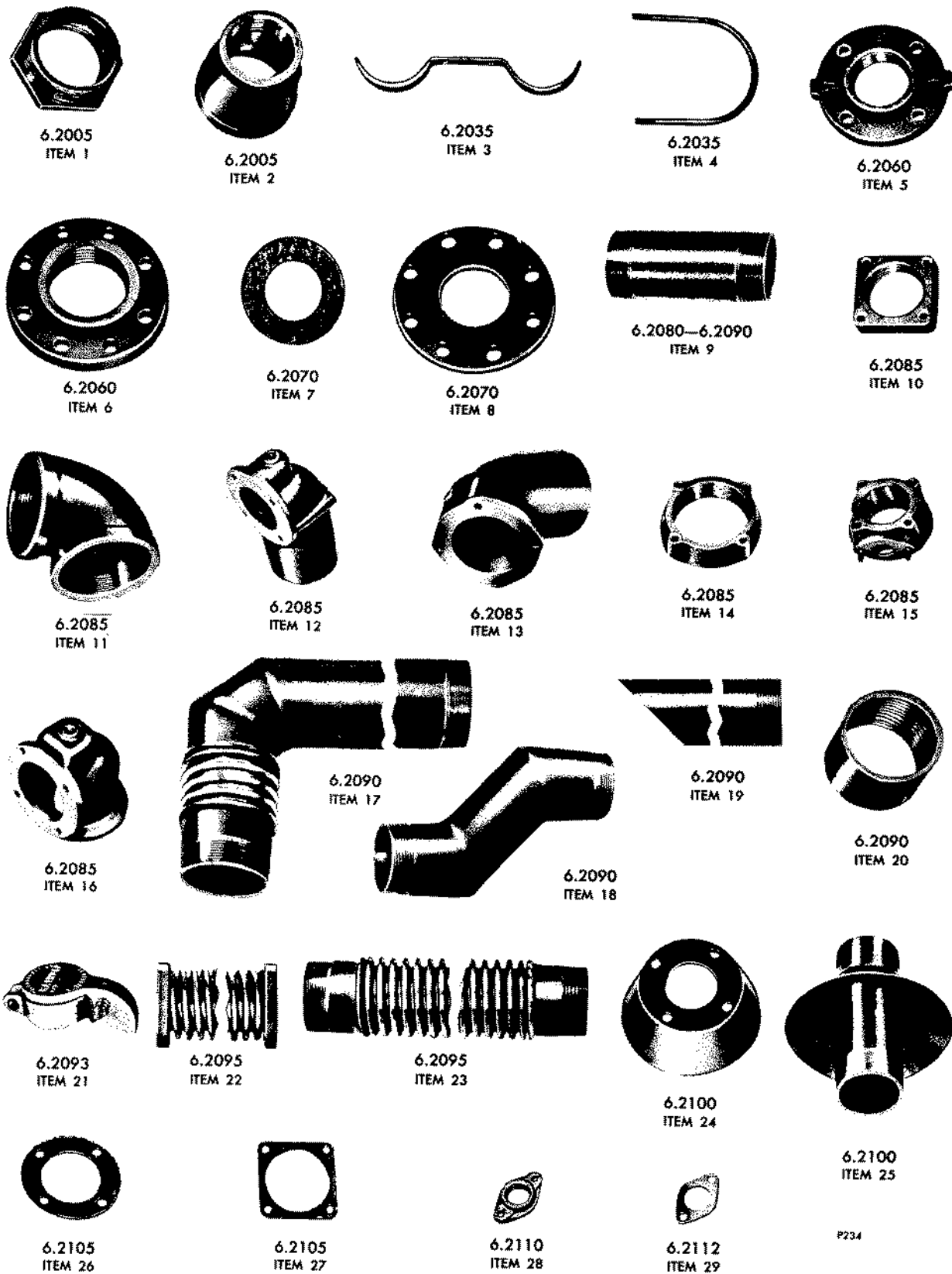


FIG. 3A EXHAUST CONNECTIONS

Fig. 3A of 6.0000

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6.1000A EXHAUST MANIFOLD

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 1 0	1 1 9	1 2 0	1 2 1	1 2 5	1 2 6	1 3 1	1 3 2	1 3 3	1 3 4	1 3 6	1 3 7
6.1001 - MANIFOLD, EXHAUST														
1A	5116303	# MANIFOLD, 2-53	1											
1A	5121174	MANIFOLD, 2-53				1								
1A	5123734	# MANIFOLD, 2-53							1					
1D	5145048	MANIFOLD, 2-53 (WATER COOLED)											1	
1A	5123733	MANIFOLD, 2-53												1
1A	5121096	@ MANIFOLD, 2-53			1									
1D	5145201	MANIFOLD, 3,6V53 (WATER COOLED)					2							
1A	5123710	* MANIFOLD, 3,6V53 (5130330)								2				
1A	5123709	* MANIFOLD, 3-53 (5130329)									1			
1B	5121097	= MANIFOLD, 4-53 (5130240)		1										
1D	5145049	MANIFOLD, 4,8V53 (WATER COOLED)						1						
1B	5124377	? MANIFOLD, 4-53 (5179382)											1	
1B	113175	PLUG, 1/8" PIPE SQ. HD. BR. (12.9550)	1	1	1						1	1		1
1A	5145009	PLUG, 1/8" PIPE (12.9550)				1								
1A	5121182	PLUG, 1/4" PIPE (2.4015)					4	2					2	3
1A	5164360	WASHER, 15/16" O.D.	3			3			3				3	3
1A,C	5104439	WASHER, 7/16" STUD (6.1001)		5	4		8	5		4	4	5		
1A,C	127855	NUT, 7/16"-20 (12.9120)	3	5	4	3	8	5	3	8	4	5	3	3
# NOT SERVICED, USE 5123733; ON UNITS WITHOUT SHUTDOWNS ALSO INCLUDE (1) 5121098 COVER, (1) 5113412 GASKET, (2) 186618 BOLTS, (2) 103320 LOCKWASHERS, (2) 113175 PLUG.														
@ NOT SERVICED, USE 5130329 WITH MECHANICAL SHUTDOWN, 5130330 WITHOUT MECHANICAL SHUTDOWN, AND INCLUDE EXHAUST FLANGE TYPE 234.														
* NOT SERVICED; USE PART NUMBER SHOWN IN PARENTHESES PLUS EXHAUST FLANGE TYPE 234 IN 6.2000A.														
= NOT SERVICED; USE PART NUMBER SHOWN IN PARENTHESES PLUS EXHAUST FLANGE TYPE 243 IN 6.2000A.														
? NOT SERVICED; USE PART NUMBER SHOWN IN PARENTHESES PLUS EXHAUST FLANGE TYPE 243 IN 6.2000A.														
6.1010 - GASKET, EXHAUST MANIFOLD														
1A,C	5116306	GASKET, 2-53	1			1			1				1	1
1A,C	5119006	GASKET, 4,8V53		1				1					1	
1A,C	5116205	GASKET, 3,6V53			1		2			2	1			
6.1020 - STUD, EXHAUST MANIFOLD TO HEAD														
1A,C	5112899	STUD, 3/16" X2 3/32" L	3	5	4	3	8	5	3	8	4	5	3	3

5 3 M P C E N G I N E S

D E T R O I T D I E S E L

6.1000A EXHAUST MANIFOLD

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 0	1 1 9	1 2 0	1 2 1	1 2 5	1 2 6	1 3 1	1 3 2	1 3 3	1 3 4	1 3 6	1 3 7
		6.1100 - PLATE, EXHAUST MANIFOLD COVER												
1A,B	5121098	PLATE	1	1										
1A,B	166618	BOLT, 5/16"-18X5/8" (12.9001)	2	2										
		6.1110 - GASKET, EXHAUST MANIFOLD COVER PLATE												
1B	5113412	GASKET (7.4510)	1	1										

6.1000A EXHAUST MANIFOLD

PART		TYPES										
..FIG	NUMBER	NAME AND DESCRIPTION	1	4	1	1	1	1	1	1	1	2
			4	1	4	1	6	1	7	1	8	0
			1	2	7	2	6	7	9	8	9	2
6.1001 - MANIFOLD, EXHAUST												
	5125411	* MANIFOLD, 3-53 (5198866)		1				1				
	5129641	* MANIFOLD, 3-53 (5146215)										
	5109455	@ MANIFOLD, 3.6V53 (L. BANK) (5198866)						1			1	
1B	5124378	# MANIFOLD, 4-53 (5130240)	1									
	5125431	# MANIFOLD, 4-53 (5100146)			1							
	5126826	# MANIFOLD, 4-53 (5130304)					1					
1B	5100146	MANIFOLD, 4-53						1				
1B	5109094	% MANIFOLD, 4-53 (5100146 AND SD-202 PRINT)								1		
	5125411	@ MANIFOLD, 3.6V53 (R. BANK) (5198866)									1	1
1B	5128014	MANIFOLD, 3.6V53				2						1
1B	113175	PLUG, 1/8" PIPE SQ. HD. BR. (12.9550)	1	1	1		1	1	1	1	1	1
	180016	BOLT, 5/16"-18X1/2" (12.9001)						1				
1A,C	5104439	WASHER, 7/16"	5	4	5	8	5	4	5	5	4	8
1A,C	127855	NUT, 7/16"-20 (12.9120)	5	4	5	8	5	4	5	5	4	8
		* NOT SERVICED; USE PART NUMBER SHOWN IN PARENTHESES PLUS EXHAUST FLANGE TYPE 234.										
		@ NOT SERVICED; USE PART NUMBER SHOWN IN PARENTHESES AND INCLUDE (1) 5121098 COVER, (1) 5113412 GASKET, (2) 186818 BOLTS, (2) 103320 LOCKWASHERS, (1) 113175 PLUG.										
		# NOT SERVICED; USE PART NUMBER SHOWN IN PARENTHESES PLUS EXHAUST FLANGE TYPE 243 IN 6.2000A.										
		% NOT SERVICED, USE PART NUMBERS SHOWN IN PARENTHESES).										
6.1010 - GASKET, EXHAUST MANIFOLD												
1A,C	5119006	GASKET, 4.8V53	1		1		1		1	1		
1A,C	5116205	GASKET, 3.6V53		1		2		1			1	2
6.1020 - STUD, EXHAUST MANIFOLD TO HEAD												
1A,C	5112899	STUD, 3/16"X2 3/32" L	5	4	5	8	5	4	5	5	4	8

6.1000A EXHAUST MANIFOLD

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 1 1	2 1 7	2 1 8	2 2 3	2 2 4	2 2 6	2 2 8	2 3 9	2 4 2	2 4 5	2 4 8	2 5 4
6.1001 - MANIFOLD, EXHAUST														
	NPN	MANIFOLD (CUSTOMER FURNISHED)												
A	5130329	MANIFOLD, 3.6V53 (R. BANK)	1									2		
A	5130330	* MANIFOLD, 3.6V53		AR										
	5179382	MANIFOLD, 4.8V53			1									
	5130304	MANIFOLD, 4-53				1								
B	5130240	MANIFOLD, 4.8V53					1							
E	5146215	* MANIFOLD, 3.6V53 (R. BANK)						AR	1		1			
B	5132494	MANIFOLD, 6V53 (R. BANK)								1				1
B	5132495	MANIFOLD, 6V53 (L. BANK)								1				
B	5128014	MANIFOLD, 8V-53									1			1
C	5132496	+ MANIFOLD, 8V-53 (R. BANK)											1	
C	5132497	+ MANIFOLD, 8V-53 (L. BANK)											1	
A	5133435	CRAB								4			4	6
C	113175	* PLUG, 1/8" PIPE (12.9550)	2	AR	1	1	1	AR	1					
	180016	BOLT, 5/16"-18X1/2" (12.9001)							1					
A,C	5104439	WASHER, 7/16"	8	8	5	5	5	4	4	4	8	8	8	6
A,C	127855	NUT, 7/16"-20 (12.9120)	8	8	5	5	5	4	4	8	8	8	10	8
		* AT 1 FOR A 3 CYL; 2 FOR A 6 CYL												
		+ OBSOLETE												
6.1010 - GASKET, EXHAUST MANIFOLD														
A,B	5118205	* GASKET, 3.6V53	2	AR				AR	1	2	2	2		2
A,B	5119006	GASKET, 4.8V53			1	1	1						2	
		* AT 1 FOR A 3 CYL; 2 FOR A 6 CYL												
6.1020 - STUD, EXHAUST MANIFOLD TO HEAD														
A,B	5112899	STUD, 7/16"X2 3/32" L	8	AR	5	5	5	AR	4	8	8	8	10	8

6.1000A EXHAUST MANIFOLD

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	2 5 5	2 5 7	2 5 8	2 8 8	2 8 9	2 9 3	2 9 4	2 9 9	3 0 0	3 1 0	3 3 6
6.1001 - MANIFOLD, EXHAUST													
1A	5130329	MANIFOLD, 3.6V53 (R. BANK)											1
1B	5130240	MANIFOLD, 4.8V53						2					
1B	5132495	MANIFOLD, 3.6V53 (L. BANK)			1								
1B	5128014	MANIFOLD, 3.6V53			1								
	5133850	+ MANIFOLD, 3.6V-53 (SIDE OUTLET)	1										
1E	5137027	MANIFOLD, 3-53				1							
1C	5134613	MANIFOLD, 2-53					1						
1D	5100146	MANIFOLD, 8V53							2				
1B	5132495	MANIFOLD, 6V53								1			
1E	5125412	* MANIFOLD, 6V53 (R. BANK)									1		
1E	5109455	* MANIFOLD, 6V53 (L. BANK)									1		
	5139176	MANIFOLD, 6V53 (R. BANK)										1	
	5139177	MANIFOLD, 6V53 (L. BANK)										1	
1A	5130330	MANIFOLD, 6V53 (L. BANK)											1
1C	5135016	MANIFOLD, 6V53		2									
1A	5133435	CRAB			6	2	2			4		4	
1A	5134520	CLAMP	2										
	137281	GASKET	2										
1C	113175	PLUG, 1/8" PIPE (12.9550)					1	2	2		2		2
	180016	BOLT, 5/16"-18X1/2" (12.9001)									1		
1A,B	5104439	WASHER, 7/16"		8	6	2	1	10	10	8	8	4	8
1A,B	127855	NUT, 7/16" (12.9120)	4		8	4	3	10	10	8	8	8	8
1A,B	9174746	NUT, 7/16"-20 (CONE) (12.9120)		8									
		* NOT SERVICED, USE 5198866, AND INCLUDE (1) 5121098 COVER, (1) 5113412 GASKET, (2) 185618 BOLTS, (2) 103320 LOCKWASHERS AND (1) 113175 PLUG.											
		+ OBSOLETE.											
6.1010 - GASKET, EXHAUST MANIFOLD													
1A,B	5116205	GASKET, 3.6V53	1	2	2	1				2	2	2	2
1A,B	5119006	GASKET, 4.8V53						2	2				
1C	5116306	GASKET, 2-53					1						
6.1020 - STUD, EXHAUST MANIFOLD TO HEAD													
1A,B	5112899	STUD, 7/16"X2 3/32" L		8	8	4	3	10	10	8	8	8	8
1A,B	5134365	STUD, 7/16"X3 3/4" L	4										
6.1100 - PLATE, EXHAUST MANIFOLD COVER													
1A	5121098	PLATE									1		
1A	186618	BOLT, 5/16"-18X5/8" (12.9001)									2		
1A	103320	LOCKWASHER, 5/16" (12.9200)									2		

6.1000A EXHAUST MANIFOLD

PART			TYPES										
..FIG	..NUMBER	NAME AND DESCRIPTION	255	257	258	288	289	293	294	299	300	310	336
	6.1110	GASKET, EXHAUST MANIFOLD COVER PLATE											
1A	5113412	GASKET (7.4510)									1		

6.1000A EXHAUST MANIFOLD

PART			TYPES												
..FIG	NUMBER	NAME AND DESCRIPTION	3 5 0	3 5 3	3 5 8	3 7 0	3 9 7	4 0 1	4 0 4	4 1 0	4 1 1	4 1 3	4 1 6	4 3 9	4 6 5
6.1001 - MANIFOLD, EXHAUST															
1E	5130400	# MANIFOLD (5146215) 3-53	1												
1C	5128014	MANIFOLD, 6V53		2		1						1		1	
1C	5141639	MANIFOLD, 8V53			2										
	5128745	MANIFOLD, 6V53 (L. BANK) (SD-203)				1									
1D	5145049	MANIFOLD, 4-53					1								
1D	5145048	MANIFOLD, 2-53						1							
1D	5145201	MANIFOLD, 6V53							2						
	5130330	MANIFOLD, 6V53												1	
1A	5198866	MANIFOLD, 6V53								2					
1E	5146215	MANIFOLD 6V53 (R. BANK)									1	1			
	5123733	MANIFOLD, 2-53											1		
	5133850	+ MANIFOLD, 6V53 (SIDE OUTLET MARMAN)													2
	5101142	@ MANIFOLD, 6V53 (L.B. 40 DEG. SIDE MARMAN)													1
	5101731	@ MANIFOLD, 6V53 (R.B. 40 DEG. SIDE MARMAN)													1
	5134520	CLAMP, U													1
	644132	@ CLAMP ASSY., (3.34" DIA. MARMAN) (6.2085)													4
	137281	GASKET, 7/16" COPPER (12.9360)													2
1A	5133435	CRAB			4										4
	113175	PLUG, 1/8" PIPE (12.9550)	1							4	2	2	1	1	
	5145009	PLUG, 1/8" PIPE (12.9550)					2		2						
	5121182	PLUG, 1/4" PIPE (2.4015)					2	2							
	5101466	BOLT, 7/16"-14X1 1/2" (SPEC. COATED)													4
	5101383	BOLT, 7/16"-14X3" (SPEC. COATED)													4
1C	5104439	WASHER, 7/16"	4	8	6	8	5	3	4	8	4	8		8	
A	5164360	WASHER, 15/16" O.D.											3		
	9174746	NUT, 7/16"-20 (CONE) (12.9120)			10									8	
1C	127855	NUT, 7/16"-20 (12.9120)	4	8		8	5	3	4	8	4	8	3		
		+ OBSOLETE.													
		@ EFFECTIVE WITH 6D-121935													
		# NOT SERVICED, USE PART NUMBER IN PARENTHESES.													
6.1010 - GASKET, EXHAUST MANIFOLD															
1A,B	5116205	GASKET, 3.6V53	1	2		2			1	2	1	2		2	2
1A,B,D	5119006	GASKET, 4.8V53			2		1								
	5116306	GASKET, 2-53						1					1		
6.1020 - STUD, EXHAUST MANIFOLD TO HEAD															
1C	5112899	STUD, 7/16"X2 3/32"L	4		10	8	AR	3	8	8	4	8	3		
1A,B	5175281	STUD, 7/16"X2.80"L		4											

53 MPC ENGINES

DETROIT DIESEL

6.1000A EXHAUST MANIFOLD

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	350	353	356	370	397	401	404	410	411	413	416	439	465
6.1100 - PLATE, EXHAUST MANIFOLD COVER															
1A	5121098	PLATE				1				4	2	2	1		
1A	186618	BOLT, 5/16"-18X5/8" (12.9001)				2				8	4	4	2		
1A	103320	LOCKWASHER, 5/16" (12.9200)								8	4	4	2		
6.1110 - GASKET, EXHAUST MANIFOLD COVER PLATE															
1A	5113412	GASKET (7.4510)				1				4	2	2	1		

6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS

PART		TYPES															
..FIG	NUMBER	NAME AND DESCRIPTION	4 8 9	5 0 4	5 0 5	5 1 0	5 1 2	5 2 1	5 4 8								
6.1001 - MANIFOLD, EXHAUST																	
	5104084	MANIFOLD, 6V53 (L. BANK)	1														
	5104085	MANIFOLD, 6V53 (R. BANK)	1														
	5106640	MANIFOLD, 353T		1													
	8921024	MANIFOLD, 6V53 (L. BANK)					1										
	8921025	MANIFOLD, 6V53 (R. BANK)					1										
1A	5130329	MANIFOLD, 6V53 (R. BANK)						1									
1A	5130330	MANIFOLD, 6V53 (L. BANK)						1	1								
1C	5135016	MANIFOLD, 6V53						1	1								
1A	5133435	CRAB		2			4										
	115226	BUSHING, 1" X 3/8" RED. (12.9570)					2										
	5142549	PLUG, 3/4"-14 PIPE (12.9550)					6										
	5111798	PLUG, 1" PIPE (12.9550)					6										
1C	113175	PLUG, 1/8" PIPE (12.9550)						2									
1C	5104439	WASHER, 7/16" STUD	8	3	5	4	4	8	8								
1C	127855	NUT, 7/16"-20 (12.9120)	8	4	5	4	8	8									
1A,B	9174746	NUT, 7/16"-20 (CONE) (12.9120)							8								
	118536	DRAINCOCK, 3/8" (12.9510)					2										
6.1010 - GASKET, EXHAUST MANIFOLD																	
1A,B	5116205	GASKET, 6V53	2	1		1		2	2								
1A,B,D	5119006	GASKET, 4-53			1												
	5107019	GASKET, 6V53					2										
6.1020 - STUD, EXHAUST MANIFOLD TO HEAD																	
1C	5112899	STUD, 7/16"-14 X 2 3/32"		4		4	8										
6.1100 - PLATE, EXHAUST MANIFOLD COVER																	
1A	5121098	PLATE							1								
1A	186618	BOLT, 5/16"-18 X 5/8" (12.9001)							2								
1A	103320	LOCKWASHER, 5/16" (12.9200)							2								
6.1110 - GASKET, EXHAUST MANIFOLD COVER PLATE																	
1A	5113412	GASKET (7.4510)							1								

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 7	3 8	1 5	1 2 6	1 6 0	1 6 7	1 7 3	1 7 4	1 7 5	1 7 6	1 7 7	1 8 1	1 8 5
6.2001 - MUFFLER ASSY., EXHAUST															
	5111082	* MUFFLER (HEAVY, 3 1/2" WET TYPE)				1									
A	5119172	MUFFLER							1						
A	5119173	MUFFLER								1					
A	5124596	MUFFLER									1				
	5198525	# MUFFLER, 10" DIA. X 42" L.	AR	AR	AR		AR					AR	AR		1
		* OBSOLETE.													
		# HIGH DEGREE SILENCING.													
6.2005 - BUSHING, MUFFLER PIPE															
A	5124640	COUPLING (3 1/2"X3" RED.) (ITEM 2)													1
	5182511	% NIPPLE, 3"X4" PIPE (12.9560)													1
		% OBSOLETE.													
6.2085 - FLANGE, EXHAUST															
	NPN	FLANGE (CUSTOMER FURNISHED)			1										
A	3222532	+ FLANGE (3") (ITEM 10)	1											2	
A	3291893	FLANGE (2 1/2") (ITEM 10)							1						
D	5122517	FLANGE (RIGHT BANK)										1			
D	5122518	FLANGE (LEFT BANK)											1		
	148344	DRAINCOCK, 5/16" (12.9510)										1	1		
	9418964	BOLT, 3/8"-16X5" (12.9001)										5	5		
	103321	LOCKWASHER, 3/8" (12.9200)										AR	AR		
	103322	LOCKWASHER, 7/16" (12.9200)	4		4									8	
	114547	NUT, 3/8"-24 (12.9120)							4						
	127855	NUT, 7/16"-20 (12.9120)	4		4									8	
		+ OBSOLETE													
6.2095 - CONNECTION, FLEXIBLE EXHAUST															
A	5168927	CONNECTION, 2 1/2" P.T. X 18" L. (ITEM 23)		1											
6.2105 - GASKET, EXHAUST OUTLET															
A	3221863	GASKET (3 1/4" DIA. OPENING) (ITEM 27)	1		1		1								2
A	5108377	GASKET (ITEM 27)							1						
C	5119208	GASKET (6.1150)										1	1		
A	2258176	GASKET (ITEM 27)						1							
6.2115 - STUD, EXHAUST OUTLET															
	103198	STUD, 3/8"-16-24X2 1/16" (12.9117)							4						
	5111227	STUD, 7/16"-14-20 X 1 3/4"			4										
	3222533	+ STUD, 7/16"-14-20 X 2 1/2"	4												8
		+ OBSOLETE.													

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	1 8 7	1 9 0	1 9 4	2 0 2	2 0 7	2 1 3	2 1 4	2 1 9	2 2 1	2 2 2	2 2 5
6.2001 - MUFFLER ASSY., EXHAUST													
2A	5119172	MUFFLER											
	5128448	* MUFFLER AND ASPIRATOR ASSY.	1				1						
2A	5129180	MUFFLER						AR					
2A	2406178	MUFFLER							2			1	
	5198525	# MUFFLER (10" DIA. X 42" L.) * OBSOLETE. # HIGH DEGREE SILENCING.			AR	AR							AR
6.2005 - BUSHING, MUFFLER PIPE													
3A	218866	BUSHING, 3"X2" RED. (12.9570) (ITEM 1)	1										
	5182511	% NIPPLE, 3"X4" PIPE (12.9560) % OBSOLETE.											1
6.2085 - FLANGE, EXHAUST													
3A	3222532	+ FLANGE (3") (ITEM 10)			1								
1D	5122517	FLANGE (RIGHT BANK)	1										
1D	5122518	FLANGE (LEFT BANK)	1										
	5127950	@ FLANGE ASSY.				1							
	191019	ELBOW (3" P.T. X90 DEG.)											1
	5100145	ELBOW										1	
1B	5146165	CLAMP ASSY. (MARMAN FLANGE) (3.88" DIA.)		2						2			
1B	5137619	CLAMP ASSY. (MARMAN FLANGE) (4.50" DIA.)										1	
	148344	DRAINCOCK, 5/16" (12.9510)	2										
	103172	STUD, 5/16"-18-24 X 1 1/8"				2							
	9418964	BOLT, 3/8"-16X5" (12.9001)	10			5							
	103321	LOCKWASHER, 3/8" (12.9200)	AR			AR						AR	
	114547	NUT, 3/8"-24 (12.9120) @ FOR USE WITH MECHANICAL AUTOMATIC SHUTDOWN. + OBSOLETE										4	
6.2090 - PIPE, EXHAUST													
	5108830	* PIPE, 1" L. X 3 1/4" O.D.								2			
	5129914	* PIPE, 6" L. X 3 1/4" O.D.								2			
	5129689	PIPE, 6" L. X 3 3/4" O.D.									2		
	5108831	PIPE, 1 1/2" L. X 4.22" FLANGE DIA.										1	
	5108962	PIPE, 55.28" DEV. L.										1	
	5185039	CLAMP, 2 7/8"										1	
	5108560	CLAMP, 3 5/8"										1	
1B	5137619	CLAMP ASSY. (MARMAN FLANGE) (4.22" DIA.)									2		

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 8 7	1 8 8	1 9 0	1 9 4	2 0 2	2 0 7	2 1 3	2 1 4	2 1 9	2 2 1	2 2 2	2 2 5
	6.2090	PIPE, EXHAUST (CONT'D)												
		* LENGTH DETERMINED BY INSTALLATION.												
	6.2091	SUPPORT, EXHAUST PIPE												
	5108559	SUPPORT (BRACKET)												2
	5108455	BRACKET (SMALL)												1
	5108456	BRACKET (LARGE)												1
	5179978	SPRING (7.1612)												2
	120393	WASHER, 5/16" (12.9190)												4
	6.2095	CONNECTION, FLEXIBLE EXHAUST												
A	5128451	CONNECTION (MANIFOLD TO MUFFLER) (ITEM 23)						1						
A	5128452	CONNECTION (ASPIRATOR TO MUFFLER) (ITEM 23)						1						
	5128273	NIPPLE, 2 1/2" DIA. X 7" L						1						
	5128450	CLAMP (ASPIRATOR HOSE)						2						
	5124113	+ CLAMP, 2 1/4" (3.1003) + OBSOLETE						2						
	6.2105	GASKET, EXHAUST OUTLET												
A	3221863	GASKET (3 1/4" DIA. OPENING) (ITEM 27)				1								
D	5119208	GASKET (6.1150)	2				1							
A	5100147	GASKET											1	
	6.2115	STUD, EXHAUST OUTLET												
	103197	STUD, 3/8"-16-24X1 13/16" (12.9117)												4

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

PART		TYPES												
..FIG	NUMBER	NAME AND DESCRIPTION	2 2 8	2 2 7	2 3 0	2 3 2	2 3 4	2 3 5	2 4 1	2 4 3	2 4 4	2 5 3	2 5 4	2 5 5
6.2085 - FLANGE, EXHAUST														
	NPN	FLANGE (CUSTOMER FURNISHED)							1			1		
	5108351	FLANGE (3 1/2" P.T.)				1								
3A	5108632	FLANGE (3" P.T.) (ITEM 10)					2							
3A	5109033	FLANGE (3 1/2" PLAIN HOLE)						1						
3A	5108467	FLANGE (3" P.T.)								1				
3A	5100146	ELBOW		1	1									
3A	5125592	ELBOW									1		1	
1B	5137619	CLAMP ASSY. (MARMAN FLANGE, 4.50" DIA.)	2	1	1									
	454933	* BOLT, 7/16"-14X1 1/8" (12.9001)									4		AR	
	103321	LOCKWASHER, 3/8" (12.9200)		AR	AR	AR	AR	AR	AR	AR			AR	
	103322	LOCKWASHER, 7/16" (12.9200)												
	114547	NUT, 3/8"-24 (12.9120)		4	4	8	8	4	4	4	AR		AR	
		* FOR A THREE USE A QUANTITY OF "4" AND A QUANTITY OF "8" FOR A SIX.												
6.2090 - PIPE, EXHAUST														
	5108831	PIPE, 1 1/2" L X 4.22" FLANGE DIA.	2											
6.2105 - GASKET, EXHAUST OUTLET														
3A	5100147	GASKET		1	1									
3A	5145238	GASKET				2		1	1	1				1
3A	5108377	GASKET					2					1		
3A	3221863	* GASKET (ITEM 27) * USE A QUANTITY OF "1" FOR A THREE AND "2" FOR A SIX.									1		AR	
6.2115 - STUD, EXHAUST OUTLET														
	103197	STUD 3/8"-16-24X1 13/16" (12.9117)	4											
	103198	STUD 3/8"-16-24X1 9/16" (12.9117)		4										
	5109167	STUD 3/8"-16-24X1.76"							4					
	5109158	STUD 3/8"-16-24X1 1/2"				8	8	4		4				

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	258	275	283	303	304	321	322	329	334	338	339	340
		6.2001 - MUFFLER ASSY., EXHAUST												
		FOR TYPE 346 USE TYPE 338.												
2A	2406178	MUFFLER (AUTOMOTIVE)						1						
		6.2005 - BUSHING, MUFFLER PIPE												
3A	218866	BUSHING, 3"X2" RED. (12.9570) (ITEM 1)									1			
		6.2085 - FLANGE, EXHAUST												
	NPN	FLANGE (CUSTOMER FURNISHED)	2	1										
3A	5108467	FLANGE (3"P.T.)								1				
1D	5138588	FLANGE											1	
1D	5138764	+ FLANGE												1
3A	5100145	ELBOW						1						
3A	5130703	ELBOW			2		1							
	5138859	ELBOW								1				
	5138751	ELBOW									1			
	5137619	CLAMP ASSY. (MARMAN FLANGE, 4.50" DIA.)						1				1		
	5139024	CLAMP ASSY. (MARMAN FLANGE, 4.50" DIA.)									1	1		
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			8		4							
	9418964	BOLT, 3/8"-16X5" (12.9001)											5	5
	103321	LOCKWASHER, 3/8" (12.9200)	AR	4	AR		AR	AR	AR				AR	AR
	114547	NUT, 3/8"-24 (12.9120)	8					4	4					
		+ OBSOLETE.												
		6.2090 - PIPE, EXHAUST												
	5108831	PIPE, 1 1/2" L X 4.22" FLANGE DIA.						1						
	5108962	PIPE, 55.28" DEV. L						1						
		6.2093 - CAP, EXHAUST PIPE												
3A	5185786	CAP, RAIN 3 1/2" PIPE (ITEM 21)				1					1			
		6.2105 - GASKET, EXHAUST OUTLET												
3A	5100147	GASKET						1		1				
3A	5145238	GASKET												
3A	5108377	GASKET (ITEM 27)	2		2		1		1					
3A	3291894	GASKET		1										
1D	5119208	GASKET (6.1150)											1	1

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		2 5 8	2 7 5	2 8 3	3 0 3	3 0 4	3 2 1	3 2 2	3 2 9	3 3 4	3 3 8	3 3 9	3 4 0
6.2115 - STUD, EXHAUST OUTLET													
	5120494	STUD, 3/8"-16-24 X 1 5/16" (5.2020)											
	103198	STUD, 3/8"-16-24 X 1 9/16" (12.9117)											
	5109167	STUD, 3/8"-16-24 X 1.78"											
	103198	STUD, 3/8"-16-24 X 2 1/16" (12.9117)											

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 4 3	3 5 0	3 5 9	3 6 1	3 9 6	4 0 4	4 0 5	4 0 9	4 1 1	4 1 2	4 1 4	4 1 7
6.2001 - MUFFLER ASSY., EXHAUST														
2A	5119173	MUFFLER				2								
6.2085 - FLANGE, EXHAUST														
	NPN	FLANGE (CUSTOMER FURNISHED)		1										
3A	5108632	FLANGE (3"P.T.) (ITEM 10)				2								
	5103444	ADAPTOR (6.2120)						1				2		
	5107177	ADAPTOR (6.2120)								1				
3A	5130703	ELBOW					2							
	5103551	ELBOW									1			
	5146165	CLAMP ASSY. (MARMAN FLANGE) (3.88" DIA.)							4					
	5137620	CLAMP ASSY. (MARMAN FLANGE) (3.82" DIA.)			2									
	5103434	CLAMP (V BAND)						1			1	2	2	
	5107180	CLAMP (V BAND)								1				
	5140216	ELBOW				2								
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)					8							
	106288	BOLT, 3/8"-24X2 1/4" (12.9001)												
	103321	LOCKWASHER, 3/8" (12.9200)	AR			AR	AR							4
	114547	NUT, 3/8"-24 (12.9120)				AR								4
6.2090 - PIPE, EXHAUST														
	5129914	PIPE, 6" L X 3 1/4" O.D.			2									
6.2091 - SUPPORT, EXHAUST PIPE														
	5143184	BRACKET, MUFFLER SUPPORT				1								
	5143185	BRACE, MUFFLER SUPPORT				1								
	5108560	CLAMP ASSY.				2								
	122408	BOLT, 1/2"-13X1" (12.9001)				2								
	103341	WASHER, 3/8" (12.9190)				4								
	103343	WASHER, 1/2" (12.9190)				2								
	103323	LOCKWASHER, 1/2" (12.9200)				2								
	123263	NUT, 1/2"-13 (12.9120)				2								
6.2093 - CAP, EXHAUST PIPE														
3A	5140349	CAP, RAIN (2 1/2" PIPE) (ITEM 21)	1											
3A	5185786	CAP, RAIN (3 1/2" PIPE) (ITEM 21)				2								
6.2105 - GASKET, EXHAUST OUTLET														
3A	5108377	GASKET (ITEM 27)		1		4	2							1
6.2115 - STUD, EXHAUST OUTLET														
	5109158	STUD, 3/8"-16-24 X 2 1/2"		4										4
	5123667	STUD, 3/8"-16 X 1 7/8"				8								