

4.8000A VENTILATING SYSTEM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 6 4	2 6 9	2 7 0	2 7 3	2 7 5	2 7 6	2 7 9	2 8 6	2 8 7	2 9 0	2 9 5	2 9 6
4.8040 - CLIP, BREATHER TUBE (CONT'D)														
	120214	LOCKWASHER, 5/16" (12.9200)	1											
	103320	LOCKWASHER, 5/16" (12.9200)					1	1		2				
	103321	LOCKWASHER, 3/8" (12.9200)			AR		AR	AR			AR			AR
	120376	NUT, 5/16"-18 (12.9120)					1	1		2				
	102635	NUT, 3/8"-16 (12.9120)			1						1			
	117049	NUT, 3/8"-24 (12.9120)					1	1						
	123221	NUT, 3/8"-16 (12.9120)												1
	# FIG. 10G OF 1.0000.													
4.8042 - SUPPORT, BREATHER TUBE CLIP														
	5129685	BRACKET, CLIP (4.8183)			1									
	5109270	+ BRACKET								1				
	5175606	BRACKET (4.1540)								1				
	5179861	BRACKET, CLIP SUPPORT (7.3245)									1			
	5129755	SUPPORT, CLIP (UPPER)					1	1						
	5129756	SUPPORT, CLIP (LOWER)					1							
	5129757	SUPPORT, CLIP (LOWER)						1						
	180120	BOLT, 3/8"-16X3/4" (12.9001)								1				
	103321	LOCKWASHER, 3/8" (12.9200)								1				
	+ OBSOLETE.													
4.8060 - FILTER UNIT, BREATHER OIL SEPARATOR														
1A,B	5163918	ELEMENT, 2,3,4-53		1	1	1								
3C	5119481	ELEMENT, 6V53										1		
4.8175 - HOSE, BREATHER EXTENSION PIPE														
8C	5118149	* HOSE, 1" I.D. X 2" L	1				1	1	1				1	
	5169721	* HOSE, 7/8" I.D. X 24" L (4.8010)				1								
	5129751	HOSE, 1" I.D. (FORMED ELBOW)					1	1		1				
	5118149	* HOSE, 1" I.D. X 7 1/2" L (5.3432)									1			
8C	5169721	* HOSE, 7/8" I.D. X 2 1/2" L (4.8010)										1		
#	5118149	* HOSE, 1" I.D. X 3 1/2" L (5.1270)												1
8C	272857	CLAMP, 1" HOSE, SPR. TYPE (12.9660)	2				4	4	2	2	2			
	111609	CLAMP, 1 3/16" HOSE (12.9660)				1						2		
	111612	CLAMP, 1 3/8" HOSE (12.9660)											2	2
	# FIG. 10G OF 1.0000.													
	* STD. LENGTH HOSE, CUT TO LENGTH SHOWN.													

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PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 0 2	3 0 3	3 0 4	3 1 3	3 1 4	3 1 9	3 2 0	3 4 2	3 4 4	3 5 1	3 5 3	3 5 5
4.8001 - PIPE, BREATHER														
A PIPE ASSY. INCLUDES PLUG IN 4.8001 AND FILTER IN 4.8060.														
8A	5130287	* PIPE ASSY., 2,3,4-53 (5130289)		1										
	5128830	+ PIPE, 3-53												1
	5130289	PIPE ASSY., 4-53			1									
8A,B	5150829	PLUG (7/8" CUP)		1	1									
8A,B	179828	BOLT, 5/16"-18X2 1/2" (12.9001)		2	2									
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)												1
	186627	BOLT, 3/8"-24X1" (12.9001)												1
	5152148	WASHER, 3/8" COPPER (2.4050)												2
8A,B	103320	LOCKWASHER, 5/16" (12.9200)		2										
	103321	LOCKWASHER, 3/8" (12.9200)												2
	102635	NUT, 3/8"-16 (12.9120)												1
* NOT SERVICED, USE PART NO. IN PARENTHESES PLUS (1) 5150829 PLUG AND (1) 5163918 FILTER.														
+ OBSOLETE.														
4.8010 - EXTENSION, BREATHER PIPE														
#	5127858	PIPE, 3,4-53 (1"O.D.X31.68" DEV. L.)										1	1	
	5130141	PIPE, 6V53 (1" O.D.X42.10" DEV. L.) (4.8001)	1											
	5172756	PIPE, 4-53 (1"O.D.X49.76" DEV. L.) (4.8001)				1								
	5162862	PIPE, 4-53 (1" O.D.X49.76" DEV.L.) (4.8001)					1							
	5130442	PIPE, 3-53 (1"O.D.X41" DEV. L.) (4.8001)						1						
	5130443	PIPE, 3-53 (1" O.D. X 41" DEV. L.) (4.8001)							1					
#	5129488	PIPE, 6V53 (1"O.D.X22.50" DEV. L.)								1				
#	5131843	PIPE, 6V53 (1"O.D.X26.46" DEV. L.)									1			
	5132581	% PIPE, 3-53 (1"O.D.X22.38" DEV. L.) # FIG. 10G OF 1.0000. % OBSOLETE.												1
4.8020 - GASKET, BREATHER TUBE														
8A,B	5116391	GASKET, 2,3,4-53 (1.5060)		1										
	5156319	GASKET, 3-53 (5.5610)												1
4.8025 - BAFFLE, BREATHER														
	5132344	* BAFFLE, 3-53												1
	5132345	* COVER, 3-53												1
	5132431	* SUPPORT, 3-53												1

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PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 0 2	3 0 3	3 0 4	3 1 3	3 1 4	3 1 9	3 2 0	3 4 2	3 4 4	3 5 1	3 5 3	3 5 5
4.8025 - BAFFLE, BREATHER (CONT'D)														
	106284	BOLT, 3/8"-24X5/8" (12.9001)												1
	5152148	WASHER, 3/8" COPPER (2.4050)												1
	103321	LOCKWASHER, 3/8" (12.9200)												1
* OBSOLETE.														
4.8040 - CLIP, BREATHER TUBE														
#	5157702	CLIP, 1" TUBE	2							1	1			1
	5183247	CLIP, 1" TUBE (8.3801)				1	1	1	1					
	5161874	CLIP, 1 1/16" TUBE (7.3245)				1	1	1	1					
	5127859	CLIP, 1" TUBE										1	1	
	5169476	CLIP, 1" TUBE										1		
	5196119	SPACER, 13/32" I.D. X 7/8" (5.4025)										1		
	5159347	SPACER, 3/4" X 1/2" (7.1581)										1		1
	5174085	SPACER, 15/32" I.D. X 3/8" (2.7960)	1											
	179816	BOLT, 5/16"-18X3/4" (12.9001)	1											
	186624	BOLT, 5/16"-18X1 1/4" (12.9001)												1
	179835	BOLT, 3/8"-16X5/8" (12.9001)										1		
	180120	BOLT, 3/8"-16X3/4" (12.9001)				1	1	1	1				1	
	179838	BOLT, 3/8"-16X7/8" (12.9001)								1				
	179844	BOLT, 3/8"-16X1 5/8" (12.9001)										1		
	427564	BOLT, 7/16"-14X1 3/8" (12.9001)	1											
	103342	WASHER, 7/16" (12.9190)	1											
	103320	LOCKWASHER, 5/16" (12.9200)	1											
	103321	LOCKWASHER, 3/8" (12.9200)				AR	AR	AR	AR	AR		AR	AR	1
	103322	LOCKWASHER, 7/16" (12.9200)	1											
	120376	NUT, 5/16"-18 (12.9120)	1											
	102635	NUT, 3/8"-16 (12.9120)				1	1	1	1	1				
# FIG. 10G. OF 1.0000.														
4.8042 - SUPPORT, BREATHER TUBE CLIP														
	5173189	BRACKET (9.1591)				1	1	1	1					
	5173022	BRACKET (5.5379)									1			
	5114541	BRACKET, CLIP (7.1585)									1			
	5184060	SUPPORT, CLIP (4.6040)	1											
	5196119	SPACER, 13/32" I.D. X 7/8" (5.4025)				1	1	1	1					
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)	1											
	186285	BOLT, 3/8"-16X4" (12.9001)								1				
	186314	BOLT, 3/8"-24X4 1/4" (12.9001)				1	1	1	1					
	103321	LOCKWASHER, 3/8" (12.9200)	1											
4.8060 - FILTER UNIT, BREATHER OIL SEPARATOR														
8A.8	5163918	ELEMENT		1										
8A.8	5104007	ELEMENT			1									

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PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	302	303	304	313	314	319	320	342	344	351	353	355
4.8175 - HOSE, BREATHER EXTENSION														
	5129751	HOSE, 1" I.D. (FORMED)	1											
	5130140	HOSE, 1" I.D. (FORMED ELBOW)				1	1	1	1	1	1	1		
	5118149	* HOSE, 1" I.D. X 5" L (4.1642)											1	
	5118149	* HOSE (1" I.D. X 2 1/2" L (4.1642)												1
8C	272857	CLAMP, 1" HOSE, SPRING TYPE (12.9660)				2	2	2	2			2		2
	111612	CLAMP, 1 3/8" HOSE (12.9660)	2							2	2			
	5186840	CLAMP, 1 1/2" HOSE (12.9660)											2	
		* STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												

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PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 5 7	3 7 1	3 7 7	3 7 9	3 8 3	4 0 0	4 0 6	4 1 1	4 2 0	4 3 3	4 3 7	4 4 0
4.8001 - PIPE, BREATHER														
A PIPE ASSY. (PLAIN) INCLUDES PLUG IN 4.8001 AND FILTER IN 4.8060.														
A PIPE ASSY. (WITH OIL FILLER) INCLUDES FILLER CAP CHAIN IN 4.5030.														
5137034	PIPE, 3-53													1
5150829	PLUG, 7/8" CUP												1	
179839	BOLT, 3/8"-16X1" (12.9001)													2
103321	LOCKWASHER, 3/8" (12.9200)													2
4.8010 - EXTENSION, BREATHER PIPE														
5131319	PIPE, 2-53 (1" O.D.X23" DEV. L.)		1											
5133525	PIPE, 4-53 (1" O.D.X29.50" DEV. L.)			1										
5133941	PIPE, 8V53 (1 1/2" O.D.X29.26" DEV. L.)				1	1						1		
5134489	+ PIPE, 8V53 (1" O.D.X32.62" DEV. L.)					1						1		
5134470	PIPE, 8V53 (1" O.D.X22.56" DEV. L.)					1						1		
5134627	PIPE, 8V53						1							
5136168	PIPE, 3-53								1					
5136634	PIPE, 8V53 (1" O.D.X10" DEV. L.)									1				
5136316	PIPE, 3-53										1			
5137109	PIPE, 3-53													1
# FIG. 10G OF 1.0000.														
+ OBSOLETE.														
4.8020 - GASKET, BREATHER TUBE														
5156319	GASKET, 3-53 (5.5610)													1
4.8040 - CLIP, BREATHER TUBE														
5157702	CLIP (1" TUBE)		1	1		2			1		1	2		1
5158779	CLIP (1 1/2" TUBE) (5.5376)				1	1						1		
5156664	CLIP (1" TUBE) (4.1570)						1			1				
120228	BOLT, 5/16"-18X5/8" (12.9001)						1							
186618	BOLT, 5/16"-18X5/8" (12.9001)													2
179816	BOLT, 5/16"-18X3/4" (12.9001)				1	1						1		
180120	BOLT, 3/8"-16X3/4" (12.9001)		1											
181361	BOLT, 3/8"-24X7/8" (12.9001)								1					
186310	BOLT, 3/8"-24X3 1/2" (12.9001)					1						1		
5170489	BOLT, 3/8"-24X3 9/16" LOCK (12.9001)					1						1		
120393	WASHER, 5/16" (12.9190)					1						1		2
103341	WASHER, 3/8" (12.9190)								1					
103320	LOCKWASHER, 5/16" (12.9200)				1	1	1			1		1		2

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			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 5 7	3 7 1	3 7 7	3 7 9	3 8 3	4 0 0	4 0 6	4 1 1	4 2 0	4 3 3	4 3 7	4 4 0
		4.8040 - CLIP, BREATHER TUBE (CONT'D)												
	103321	LOCKWASHER, 3/8" (12.9200)	AR						AR	1		1		2
	120376	NUT, 5/16"-18 (12.9120)			1	1	1							
	102836	NUT, 3/8"-16 (12.9120)	1						1					
	117049	NUT, 3/8"-24 (12.9120)												
		4.8042 - SUPPORT, BREATHER TUBE CLIP												
	5173022	BRACKET (5.5379)	1						1					2
	5155464	BRACKET (7.1582)				1						1		
	5134534	BRACKET (7.8203)								1				
	5177331	SUPPORT (4.8042)			1									
	106973	BOLT, 5/16"-18X1/2" (12.9001)												1
	120228	BOLT, 5/16"-18X5/8" (12.9001)								1				1
	179839	BOLT, 3/8"-16X1" (12.9001)												1
	120393	WASHER, 11/32"X11/16"CAD. (12.9190)												1
	103341	WASHER, 3/8" (12.9190)												1
	103320	LOCKWASHER, 5/16" (12.9200)								1				1
	120376	NUT, 5/16"-18 (12.9120)								1				
		4.8050 - BODY, BREATHER												
	5134318	+ BODY			1	1						1		
	5138044	BODY											1	
18	5121057	BODY ASSY. (INCLUDES INTEGRAL BREATHER TUBE)						1						
	186647	BOLT, 1/4"-20X1" (12.9001)			3	3						3		
	179802	BOLT, 1/4"-20X1 5/8" (12.9001)			4	4						4		
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)						2					2	
	120392	WASHER, 9/32" (12.9190)										7		
	120393	WASHER, 5/16" (12.9190)			7	7								
		+ OBSOLETE												
		4.8060 - FILTER UNIT, BREATHER OIL SEPARATOR												
	5132814	ELEMENT 8V53			1	1								
	5137183	ELEMENT 8V53										1		
	5104007	ELEMENT 3.4-53											1	
		4.8070 - GASKET, BREATHER BODY												
	5132774	GASKET, 8V53			1	1						1		

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PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	357	371	377	379	383	400	408	411	420	433	437	440
4.8175 - HOSE, BREATHER EXTENSION PIPE														
5118149	*	HOSE, 1" I.D. X 2" L (4.1642)	1						1	2		2		2
5130140		HOSE, 1" I.D. (FORMED ELBOW)		1		2								
5183930	*	HOSE, 1 1/2" I.D. X 2 3/4" L (5.3290)			1	1						2		
5130140		HOSE, 1" I.D. (FORMED ELBOW)						1				1		
5118149	*	HOSE, 1" I.D. X 5" L (4.1642)												
272857		CLAMP, 1" HOSE, SPRING TYPE (12.9660)	2	2		4	2		2	2	2	4		6
5186840		CLAMP, 1 1/2" HOSE (12.9660)												
2337379		CLAMP, 1 1/2" HOSE (12.9660)			2	2						2		
		* STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												

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PART		TYPES										
..FIG ..	NUMBER	NAME AND DESCRIPTION										
		4 4 1	4 4 6	4 5 6	4 6 2	4 6 3	4 7 3	4 9 1	5 3 3	5 4 1	5 7 7	5 8 5
4.8001 - PIPE ASSY., BREATHER												
A PIPE ASSY. (PLAIN) INCLUDES PLUG IN 4.8001 AND FILTER IN 4.8060.												
A PIPE ASSY. (WITH OIL FILLER) INCLUDES FILLER CAP CHAIN IN 4.5030.												
5138954	+ PIPE, 4-53				1							
5139042	+ PIPE, 4-53					1						
5145442	+ PIPE, 8V53										1	
5145443	+ PIPE, 8V53										1	
5145046	PIPE, 8V53										1	
5150829	PLUG, 7/8" CUP	1										
186625	BOLT, 5/16"-18X7/8" (12.9001)										4	
120393	WASHER, 5/16" (12.9190)										2	
103320	LOCKWASHER, 5/16" (12.9200)										4	
	+ OBSOLETE											
4.8010 - EXTENSION, BREATHER TUBE												
5133941	PIPE, 8V53 (1 1/2" O.D.X29.26" DEV. L.)		1						1			
5134470	PIPE, 8V53 (1" O.D.X22.56" DEV. L.)								1			
5136634	PIPE, 8V53 (1" O.D.X10" DEV. L.)									1		
5138379	PIPE, 6V53			1								
5109983	PIPE, 3,4-53						1					
5144205	PIPE, 8V53									1		
5145353	PIPE, 8V53 (1" O.D.X26 11/32" L.)									1		
5116262	PIPE, 8V53 (1.2069)										4	
5144906	PIPE, 3-53										1	
4.8020 - GASKET BREATHER TUBE												
5145447	SEAL RING (4.8174)										4	
4.8040 - CLIP, BREATHER TUBE												
5157702	CLIP (1" TUBE)						1		1	1		
5144149	CLIP (1" TUBE)									2		
5158779	CLIP (1 1/2" TUBE) (5.5376)		1						1			
5155664	CLIP (1" TUBE) (4.1570)									2		
5177001	CLIP (7/8") (8.3801)			1								
5187661	CLIP (1 1/4") (4.8183)				1	1						
120228	BOLT, 5/16"-18X5/8" (12.9001)									1		
179816	BOLT, 5/16"-18X3/4" (12.9001)	1							1			

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PART		TYPES															
FIG	NUMBER	NAME AND DESCRIPTION															
		4 4 1	4 4 6	4 5 6	4 6 2	4 6 3	4 7 3	4 9 1	5 3 3	5 4 1	5 7 7	5 8 6					
4.8040 - CLIP, BREATHER TUBE (CONT'D)																	
186625	BOLT, 5/16"-18X7/8" (12.9001)				1												
181333	BOLT, 5/16"-24 X 5/8" (12.9001)						1										
179833	BOLT, 3/8"-16X1/2" (12.9001)			1													
180120	BOLT, 3/8"-16X3/4" (12.9001)										1						
181360	BOLT, 3/8"-24X3/4" (12.9001)				1	1											
5170489	BOLT, 3/8"-24X3 9/16" LOCK (12.9001)								1								
179857	BOLT, 7/16"-14X7/8" (12.9001)			1													
179858	BOLT, 7/16"-14X1" (12.9001)										1						
120393	WASHER, 5/16" (12.9190)										2						
103341	WASHER, 3/8" (12.9190)				1	1					1						
103342	WASHER, 7/16" (12.9190)										1						
103320	LOCKWASHER, 5/16" (12.9200)	1			1				2		1						
103321	LOCKWASHER, 3/8" (12.9200)			1	AR	AR	1				1						
103322	LOCKWASHER, 7/16" (12.9200)			1							1						
120376	NUT, 5/16"-18 (12.9120)	1								1	1						
114493	NUT, 5/16"-24 (2.7170)						1										
102635	NUT, 3/8"-16 (12.9120)										1						
117049	NUT, 3/8"-24 (12.9120)				1	1											
4.8042 - SUPPORT, BREATHER TUBE CLIP																	
5155464	BRACKET (7.1582)						1		1								
5134534	BRACKET (7.8203)									1							
5159398	BRACKET										1						
5145437	BRACKET											1					
5145508	BRACKET											1					
5177331	SUPPORT (4.8042)	1															
5179861	SUPPORT (7.3245)				1	1											
120228	BOLT, 5/16"-18X5/8" (12.9001)										1						
186625	BOLT, 5/16"-18X7/8" (12.9001)					1											
179837	BOLT, 3/8"-16X3/4" (12.9001)										1						
103320	LOCKWASHER, 5/16" (12.9200)					1					1						
103321	LOCKWASHER, 3/8" (12.9200)								AR			AR					
120376	NUT, 5/16"-18 (12.9120)										1						
4.8045 - BREATHER ASSY.																	
FOR COMPONENTS OF BREATHER ASSY. SEE ASSY. BREAKDOWN, PAGE A1.																	
5110384	BREATHER ASSY., 4-53					1	1										
148148	SPRING, RETAINER 1/4" (12.9640)					1	1										
186624	BOLT, 5/16"-18X1 1/4" (12.9001)					1	1										
4.8050 - BODY, BREATHER																	
5134318	+ BODY, 8V53		1						1								
5114263	BODY, 4-53	1				1	1										
5121057	BODY ASSY., 3.53 (INCLUDES INTEGRAL BREATHER TUBE)	1															

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PART			TYPES										
..FIG	NUMBER	NAME AND DESCRIPTION	4 4 1	4 4 6	4 5 6	4 6 2	4 6 3	4 7 3	4 9 1	5 3 3	5 4 1	5 7 7	5 8 5
		4.8050 - BODY, BREATHER OR SEPARATOR (CONT'D)											
	186647	BOLT, 1/4"-20X1" (12.9001)		3						3			
	179802	BOLT, 1/4"-20X1 5/8" (12.9001)		4						4			
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)	2										
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)				4	4						
	120392	WASHER, 1/4" (12.9190)		7						7			
	103321	LOCKWASHER, 3/8" (12.9200) + OBSOLETE				4	4						
		4.8055 - SHELL, BREATHER											
8D	2443795	COVER, 8V53											1
8D	5104265	CLAMP, 8V53											1
		4.8057 - GASKET, BREATHER SHELL COVER											
	5179282	GASKET, 8V53 (BETWEEN BREATHER ASSY. AND BODY)				1	1						
		4.8060 - FILTER UNIT, BREATHER											
	5137183	FILTER, 8V53		1						1			
	5104007	FILTER, 3,4-53	1										
	5119481	FILTER, 8V53									1		
8D	5101760	ELEMENT, 8V53											1
8D	5132042	SCREEN, 8V53											2
8D	5131951	RETAINER, 8V53											2
		4.8070 - GASKET, BREATHER BODY OR SEPARATOR											
	5132774	GASKET, 8V53		1						1		1	
	5183199	GASKET, 4-53				1	1						
8D	5144038	GASKET, 8V53											1
		4.8175 - HOSE, BREATHER EXTENSION											
	5130140	HOSE (1" I.D.) (FORMED ELBOW)							1	1	2		
	5163930	* HOSE (1 1/2" I.D. X 2 3/4" L.) (5.3290)		1						1			
	5141191	HOSE (1 I.D.X5 L.) (5.3432)						1					

4.8000A VENTILATING SYSTEM

PART		TYPES															
..FIG ..	NUMBER	NAME AND DESCRIPTION															
		4 4 1	4 4 6	4 5 6	4 6 2	4 6 3	4 7 3	4 9 1	5 3 3	5 4 1	5 7 7	5 8 5					
4.8175 - HOSE, BREATHER EXTENSION (CONT'D)																	
5129064	* HOSE (7/8" I.D.) (4.8001)			1													
5120022	* HOSE (1 1/4" I.D. X 1 3/4" L.) (4.8010)				1	1											
5169721	* HOSE (7/8" X 20" L.) (4.8010)											1					
5169721	* HOSE (7/8" X 17" L.) (4.8010)											2					
5169721	* HOSE (7/8" X 15") (4.8010)											1					
5142594	HOSE (16"X3 1/2")											2					
5130627	HOSE (1 1/8"X4 5/16") (3.5505)											2					
272857	CLAMP, 1" HOSE, SPRING TYPE (12.9660)									2							
111609	CLAMP, 1 3/16" HOSE (12.9660)			2													
2337379	CLAMP, 1 1/2" HOSE (12.9660)		2														
5186840	CLAMP, 1 1/2" (12.9660)						2	1		6	14						
272859	CLAMP, 1 5/8" (12.9600)				2	2											
	* STD. LENGTH, HOSE CUT TO LENGTH SHOWN.																
4.8183 - BRACKET, BREATHER EXTENSION PIPE																	
5145197	PIPE, 8V53											1					
5143815	SUPPORT, 8V53											2					
179839	BOLT, 3/8"-16X1" (12.9001)											2					
103321	LOCKWASHER, 3/8" (12.9200)											2					
4.8190 - TUBE, BREATHER TUBE TO DRAIN TANK																	
5145441	PIPE, OIL DRAIN 8V53											2					
5145440	PIPE, 90 DEG. 8V53											2					
5142549	PLUG, 3/4"-14 NPTF (12.9550)											3					
4.8195 - COVER, BREATHER HOLE-IN BLOCK																	
5144203	COVER, 8V53 (TO GOVERNOR)											1					
5175683	ELBOW (5.1235)											1					
179796	BOLT, 1/4"-20X7/8" (12.9001)											7	7				
120392	WASHER, 1/4" (12.9190)											7					

4.8000A VENTILATING SYSTEM

PART		NAME AND DESCRIPTION	TYPES											
FIG	NUMBER		6 7 5	7 1 6	7 2 7	7 5 6	7 7 2	7 9 5	7 9 8	8 0 0	8 1 1	8 3 9	8 4 1	
4.8001 - PIPE ASSY., BREATHER														
8A	5140282	PIPE ASSY., 3,4-53	1											
8A,B	180078	BOLT, 5/16"-18X7/8" (12.9001)	2											
8A,B	103320	LOCKWASHER, 5/16" (12.9200)	2											
4.8010 - EXTENSION, BREATHER TUBE														
8C	5105041	TUBE, 1" DIA. X 29.20" L.			1					1				
	5129063	PIPE, DEV. L. 14.20" (4.8001)												
4.8020 - GASKET BREATHER TUBE														
8A,B	5163299	GASKET, 3,4-53	1											
4.8040 - CLIP, BREATHER TUBE														
8C	5157702	CLIP, 1" TUBE	1											
	5177001	CLIP, 7/8" TUBE (8.3801)								1				
	179837	BOLT, 3/8"-16X3/4" (12.9001)	1								1			
	186288	BOLT, 3/8"-16X4 1/2" (12.9001)									1			
	5123429	SPACER (2.3530)									1			
	103341	WASHER, 3/8" (12.9190)	1											
	103321	LOCKWASHER, 3/8" (12.9200)	1											
	102635	NUT, 3/8"-16 (12.9120)	1											
4.8042 - SUPPORT, BREATHER TUBE CLIP														
	5125920	BRACKET	1											
	5105098	BRACKET		1										
	179795	BOLT, 1/4"-20X3/4" (12.9001)		1										
	179837	BOLT, 3/8"-16X3/4" (12.9001)	1											
	179838	BOLT, 3/8"-16X7/8" (12.9001)		1										
	103341	WASHER, 3/8" (12.9190)	1											
	103319	LOCKWASHER, 1/4" (12.9200)		1										
	103321	LOCKWASHER, 3/8" (12.9200)	1											
	120375	NUT, 1/4"-20 (12.9120)		1										
4.8050 - BODY, BREATHER OR SEPARATOR														
	5163908	SEPARATOR ASSY., 3,4-53	1											
	3222765	BUSHING (2.8925)	1											
	179858	BOLT, 7/16"-14X1" (12.9001)	1											
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)	4											
4.8055 - SHELL, BREATHER														
ID	5103648	SHELL ASSY.		1							2			
ID	5103059	COVER ASSY.			2		1					2		
ID	2443795	COVER ASSY., 4" DIA.							2					
ID	5104265	CLAMP ASSY., 4" DIA.			2		1		2			2		
	5103647	RETAINER		1							2			

4.8000A VENTILATING SYSTEM

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	6 7 5	7 1 6	7 2 7	7 5 6	7 7 2	7 9 5	7 9 8	8 0 0	8 1 1	8 3 9	8 4 1
		4.8055 - SHELL, BREATHER (CONT'D)											
	5103642	SCREW, #10-24X.375"			3							3	
		4.8057 - GASKET, BREATHER SHELL COVER											
	5103646	SEAL			1							2	
	5131952	SHELL (1.8450)											1
		4.8060 - FILTER UNIT, BREATHER											
	5190344	+ FILTER UNIT, 3,4-53	1										
8D	5132042	SCREEN, 6V-53				2		2		4			1
8D	5101760	ELEMENT, 6V-53			1	1		1		2		2	
8D	5131951	RETAINER, 6V-53				2		2		4			
	5103636	RETAINER, BREATHER ELEMENT			1							2	
		+ NOT SERVICED, USE 5163918 AND 5163919.											
		4.8070 - GASKET, BREATHER BODY OR SEPARATOR											
8D	5163910	GASKET, 3,4-53	1										
8D	5144038	GASKET, 6V-53				2		1		2			2
		4.8175 - HOSE, BREATHER EXTENSION											
8C	5120022	* HOSE, 1 1/4" X 3.26" L. (4.8010)					1						
8C	5120022	* HOSE, 1 1/4" X 2.26" L. (4.8010)					1						
8C	5134824	HOSE, 1"X36" L. (1.1155)							1				
8C	5129064	HOSE, 7/8"X2" L. (4.8001)									1		
		* STD. LENGTH HOSE, CUT TO LENGTH SHOWN.											
		4.8180 - CLAMP, BREATHER EXTENSION PIPE HOSE											
8C	272859	CLAMP, 1 1/4" HOSE (12.9660)				2							
8C	9139801	CLAMP, 5/8" HOSE (12.9660)						1					
	5186840	CLAMP, 1 1/2" HOSE (12.9660)									2		
	5181415	CLIP, 1 1/8" (5.5390)						1					
	5101020	STRAP, NYLON (2.5255)						1					
	179837	BOLT, 3/8"-16X3/4" (12.9001)						1					
	103341	WASHER, 3/8" (12.9190)						1					
	103321	LOCKWASHER, 3/8" (12.9200)						1					

DETROIT DIESEL

53 MPC ENGINES

4.8000A VENTILATING SYSTEM

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		4.8045 - BREATHER ASSY.														
	5110384	BREATHER ASSY.	1													
		4.8055 - SHELL, BREATHER														
8D	2443795	COVER ASSY. (4")	1													
8D	5104265	CLAMP ASSY.	1													
		4.8060 - FILTER UNIT, BREATHER														
	5101760	ELEMENT	1													
		4.8070 - GASKET, BREATHER SEPARATOR														
8D	5144038	GASKET	1													

GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.3000B	Water Connections
1.1000A	Air Box Drains	5.4000A	Fan
1.2000	Cylinder Head	5.4000B	Fan Shroud
1.2000A	Engine Lifter Bracket	5.5000A	Heat Exchanger or Keel Cooling
1.3000	Crankshaft, Oil Seals and Stabilizers	5.6000A	Raw Water Pump
1.3000A	Crankshaft Front Cover	5.7000A	Water Filter
1.3000B	Vibration Damper		
1.3000C	Crankshaft Pulley	6.0000	EXHAUST SYSTEM
1.3000D	Crankshaft Pulley Belt	6.1000A	Exhaust Manifold and/or Connections
1.4000A	Flywheel	6.2000A	Exhaust Muffler and/or Connections
1.5000A	Flywheel Housing		
1.5000B	Flywheel Housing Adaptor	7.0000	ELECTRICAL INSTRUMENTS
1.6000	Connecting Rod and Piston	7.1000A	Battery Charging Generator
1.7000	Camshaft and Gear Train	7.2000A	Battery Cables
1.7000A	Balance Weight Cover	7.2000B	Automatic Starting
1.7000B	Accessory Drive	7.2000B	Automatic Starting (Twin and Quad)
1.8000	Valve Injector Operating Mechanism	7.3000A	Starting Motor
1.8000A	Rocker Cover	7.4000A	Instruments
		7.4000A	Instruments (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000B	Tachometer Drive
2.1000A	Fuel Injector	7.4000B	Tachometer Drive (Twin and Quad)
2.1000B	Electronic Injector Controls	7.4000C	Shutoff, Alarm and O.S. Governor
2.2000	Fuel Pump	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000A	Fuel Pump Drain	7.5000A	Power Generator
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.6000A	Control Cabinet (Twin and Quad)
2.4000	Fuel Manifold and/or Connections	7.7000A	Wiring Harness
2.4000A	Dual Fuel System	7.8000A	Air Heater
2.5000A	Fuel Lines and Fuel Cooler	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)	7.10000A	Hydraulic Governor Solenoid
2.6000A	Fuel Tank		
2.6000B	Electric Governor	8.0000	POWER TAKE-OFF
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch
2.8000A	Hydraulic Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.9000	Injector Controls	8.3000A	Torque Converter
2.9000	Injector Controls (Twin and Quad)	8.3000A	Torque Converter (Twin and Quad)
2.9000A	Throttle Controls	8.3000B	Transmission Lines
2.9000A	Throttle Controls (Twin and Quad)		
3.0000	AIR SYSTEM	9.0000	TRANSMISSION AND PROPULSION
3.1000A	Air Cleaner and/or Adaptor	9.1000A	Hydraulic Marine Gear
3.2000A	Air Silencer	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.3000A	Air Inlet Housing	9.2000A	Reverse and Reduction Gear (mechanical)
3.3000C	Air Intake Manifold	9.3000A	Power Transfer Gear
3.4000	Blower and Drive	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000A	Blower Drive Shaft	9.4000	Transmission—Highway
3.4000B	Blower End Plate Cover	9.7000	Transmission—Off-highway
3.5000A	Turbocharger, Intercooler, and Aftercooler	9.9000	Transmission—Rail Car
4.0000	LUBRICATING SYSTEM	10.0000	SHEET METAL
4.1000A	Oil Pump	10.1000A	Engine Hood
4.1000B	Oil Distribution System		
4.1000C	Oil Pressure Regulator	11.0000	ENGINE MOUNTING
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base
4.3000A	Oil Filter Lines	11.1000A	Engine Mounting and Base (Twin and Quad)
4.4000A	Oil Cooler and Marine Gear Lines		
4.5000A	Oil Filler	12.0000	MISCELLANEOUS
4.6000A	Dipstick	12.2000A	Bilge Pump
4.7000A	Oil Pan	12.3000A	Vacuum Pump
4.8000A	Ventilating System	12.4000A	Air Compressor
		12.5000A	Hydraulic Pump
5.0000	COOLING SYSTEM	12.6000A	Gasoline Starter
5.1000	Fresh Water Pump	12.6000B	Air Starter
5.1000A	Fresh Water Pump Cover	12.6000C	Cold Weather Starting Aid
5.2000A	Water Outlet Manifold and/or Elbow	12.6000D	Hydraulic Starter
5.2000B	Thermostat	12.6000E	Hydraulic Starter Accessories
5.2000C	Water Bypass Tube	12.8000A	Supplies
5.3000A	Radiator	12.8000B	Fabrication Material
		12.8000C	Miscellaneous Service Kits and Sets
		12.8000D	Miscellaneous Service Parts

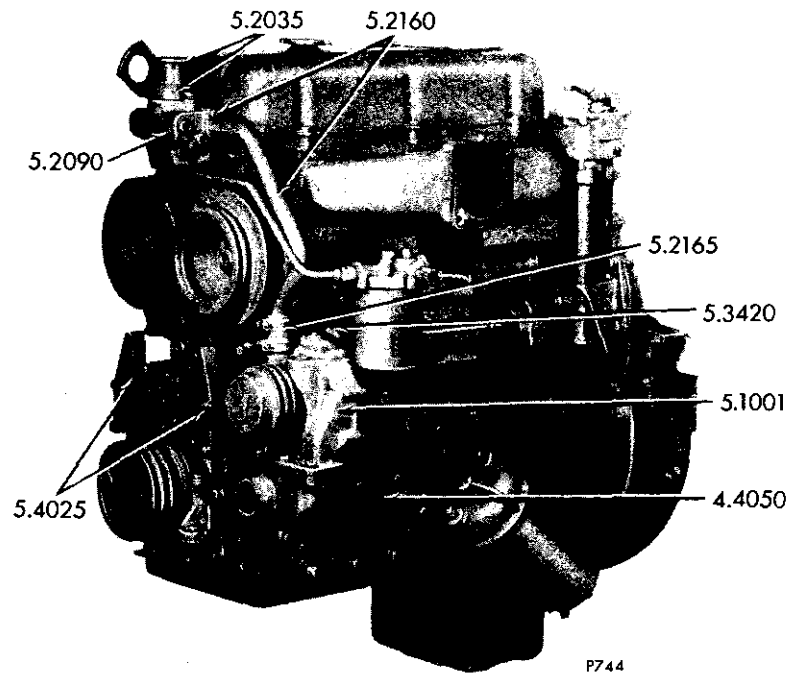


FIG. 1A TYPICAL COOLING SYSTEM (In-Line Engine)

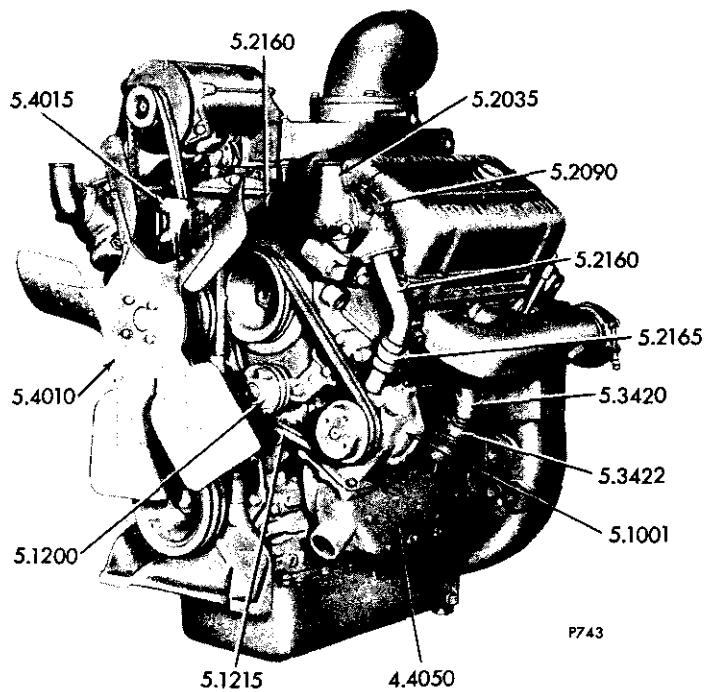


FIG. 1B TYPICAL COOLING SYSTEM (V-Engine)

Figs. 1A & 1B of 5.0000

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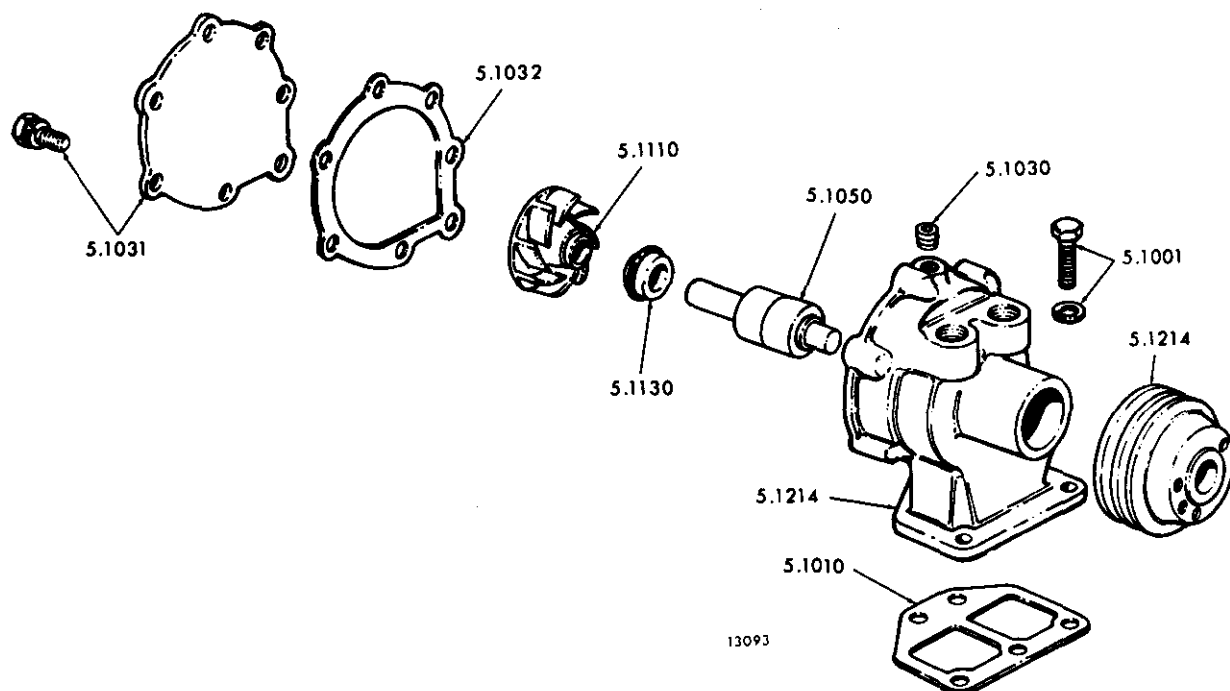


FIG. 2A FRESH WATER PUMP

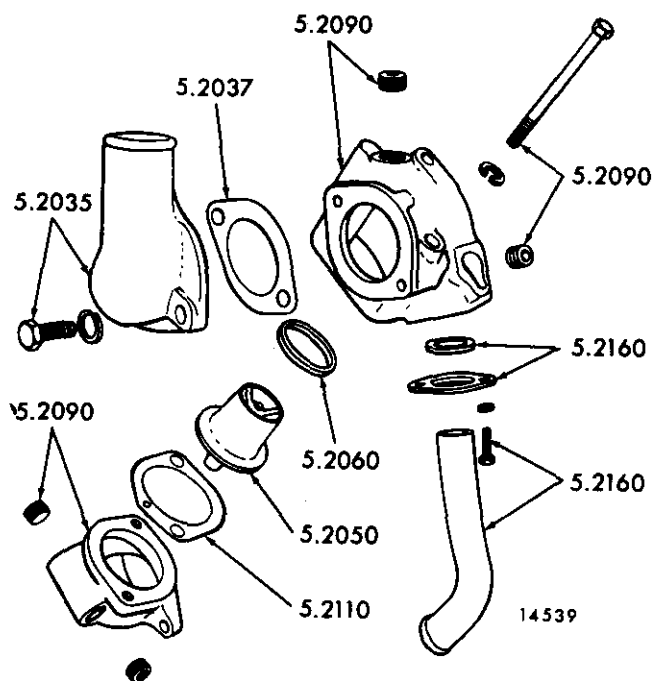


FIG. 3A THERMOSTAT
(V-Models)

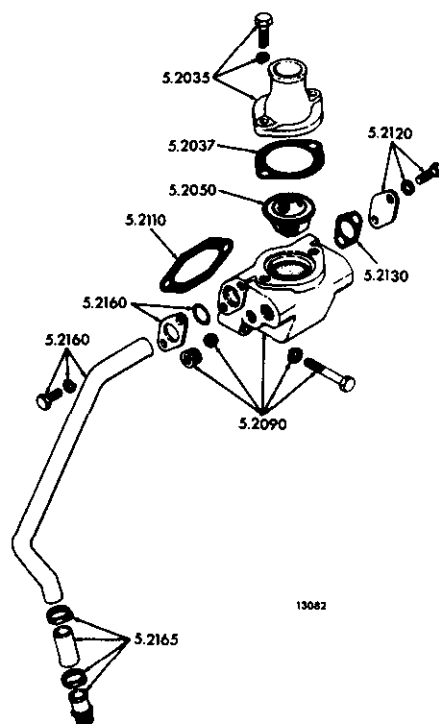


FIG. 3B THERMOSTAT
(In-Line Models)

Figs. 2A, 3A & 3B of 5.0000

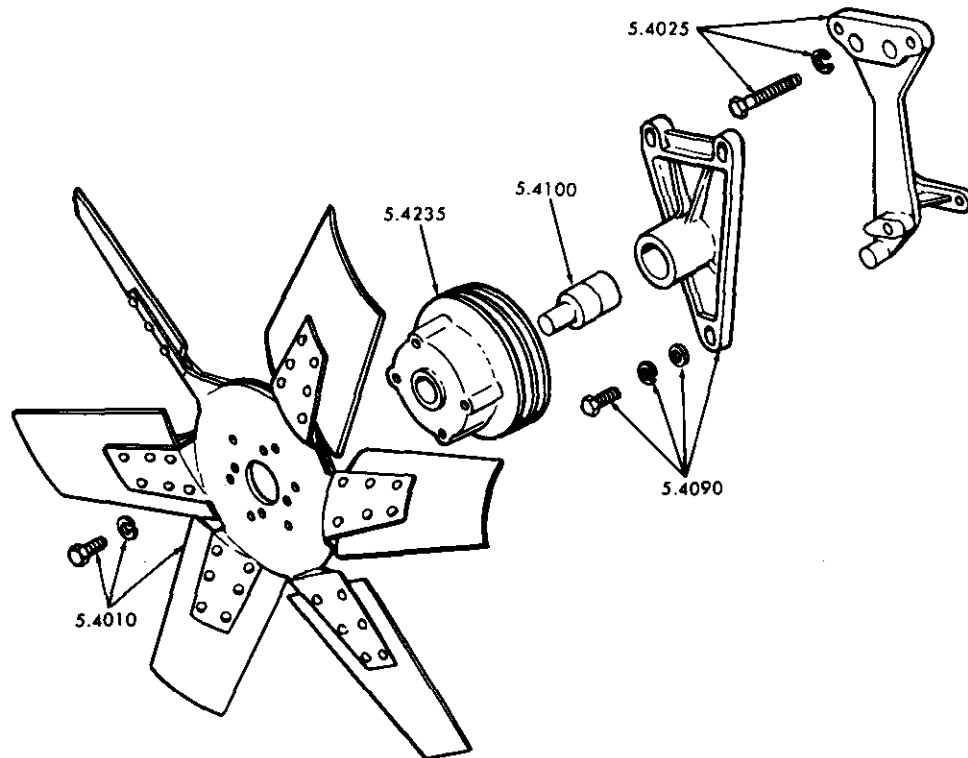


FIG. 4A FAN SHAFT & PULLEY

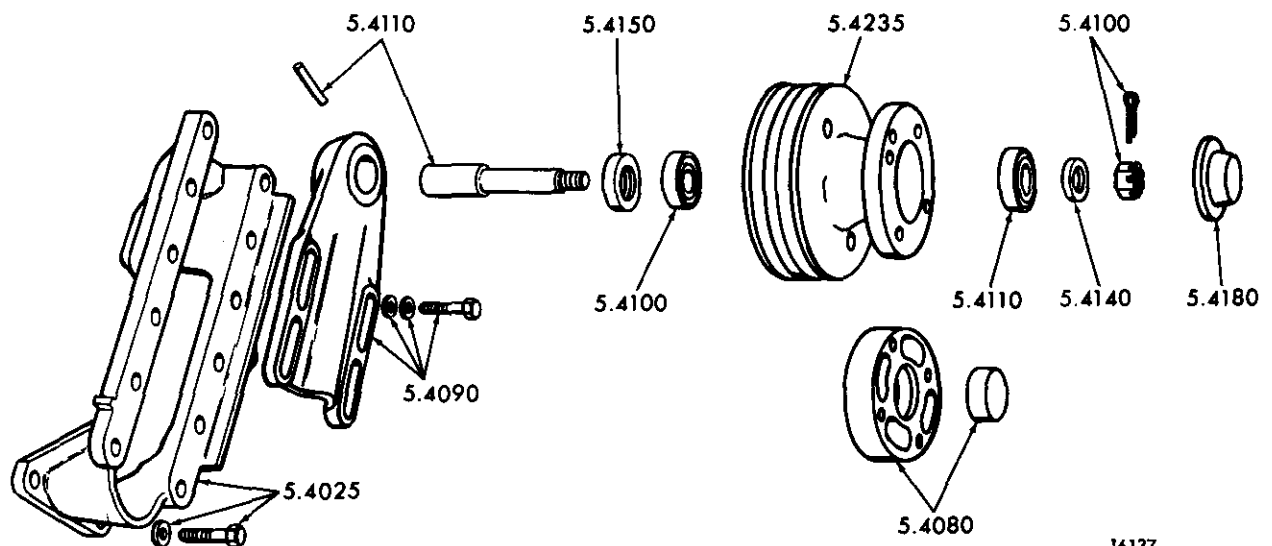


FIG. 4B FAN SHAFT & PULLEY

Figs. 4A & 4B of 5.0000

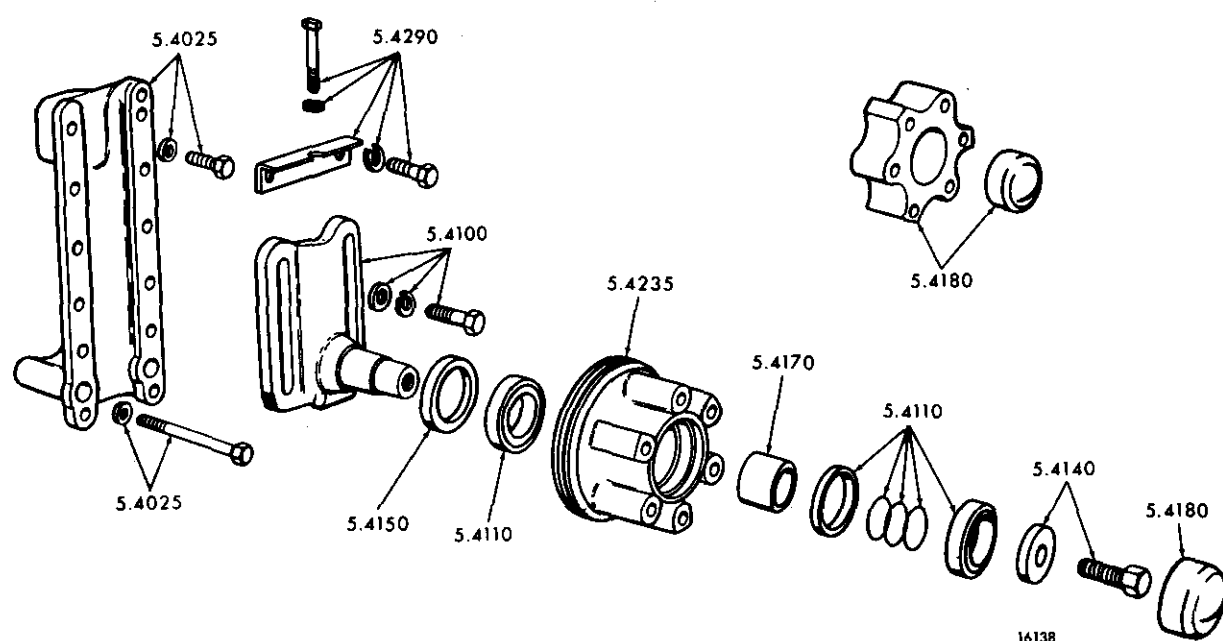


FIG. 4C FAN SHAFT & PULLEY

Fig. 4C of 5.0000

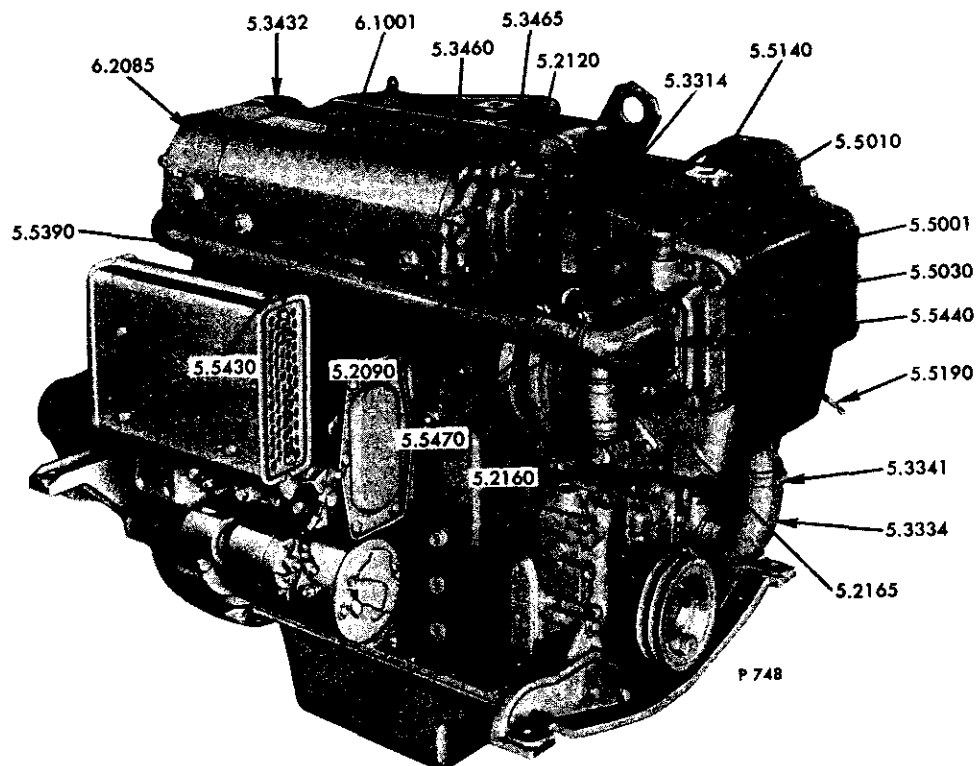


FIG. 5A TYPICAL HEAT EXCHANGER COOLING SYSTEM (In-Line Model)

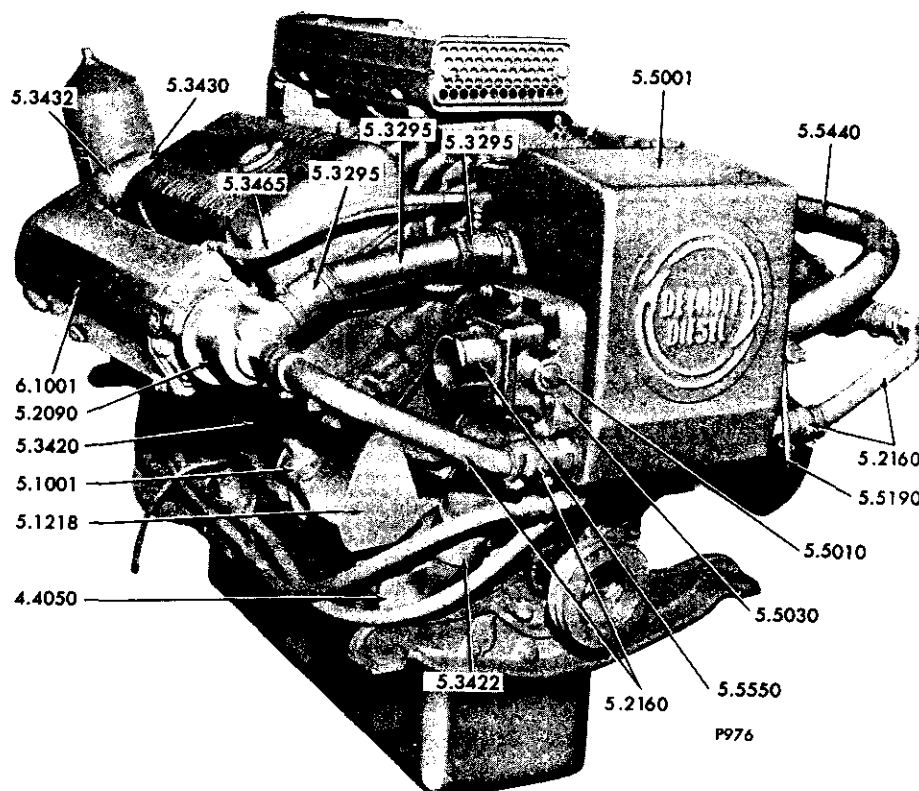


FIG. 5B TYPICAL HEAT EXCHANGER COOLING SYSTEM (V-Model)

Figs. 5A & 5B of 5.0000

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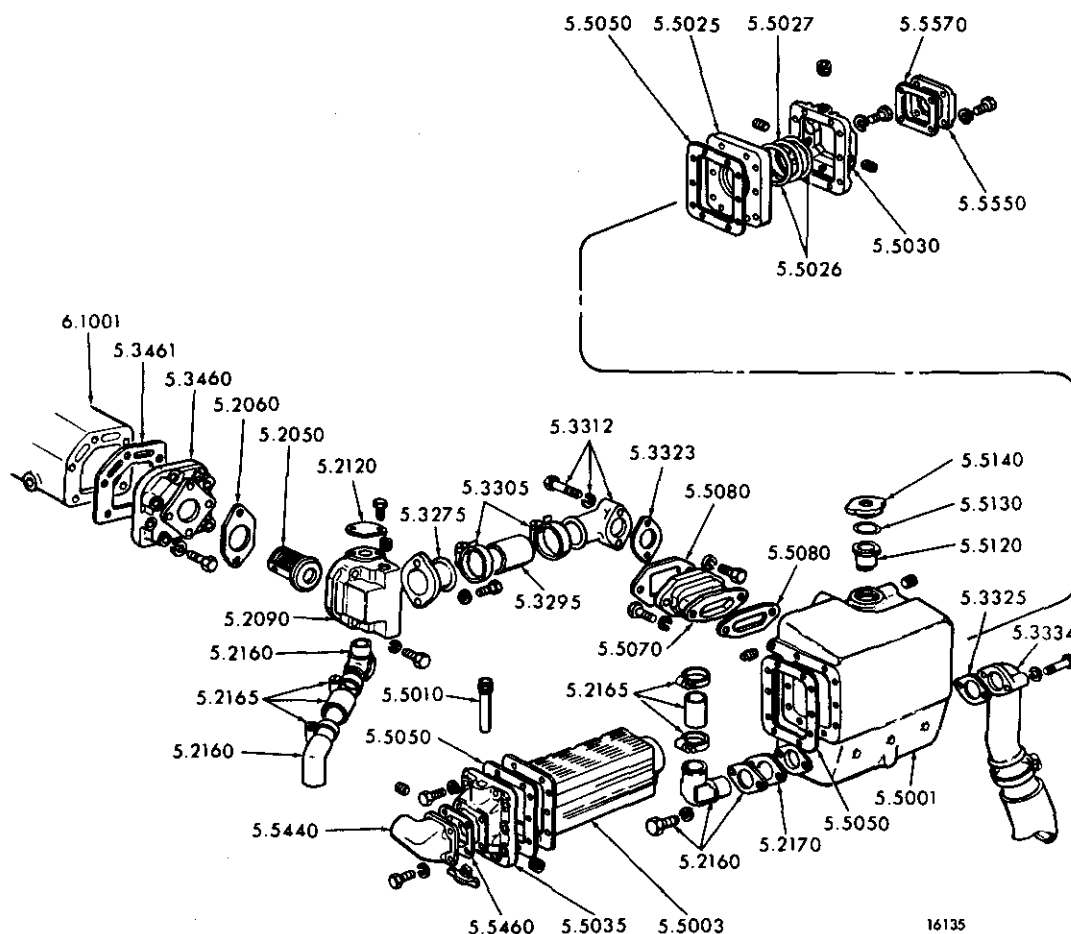


FIG. 6A HEAT EXCHANGER (In-Line Models)

Fig. 6A of 5.0000

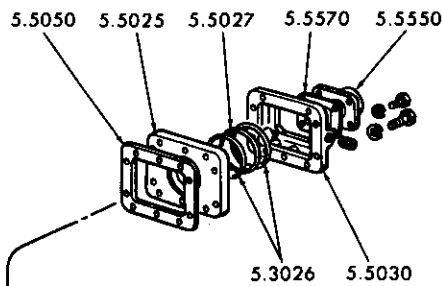


FIG. 6B HEAT EXCHANGER (V-Models)

Fig. 6B of 5.0000

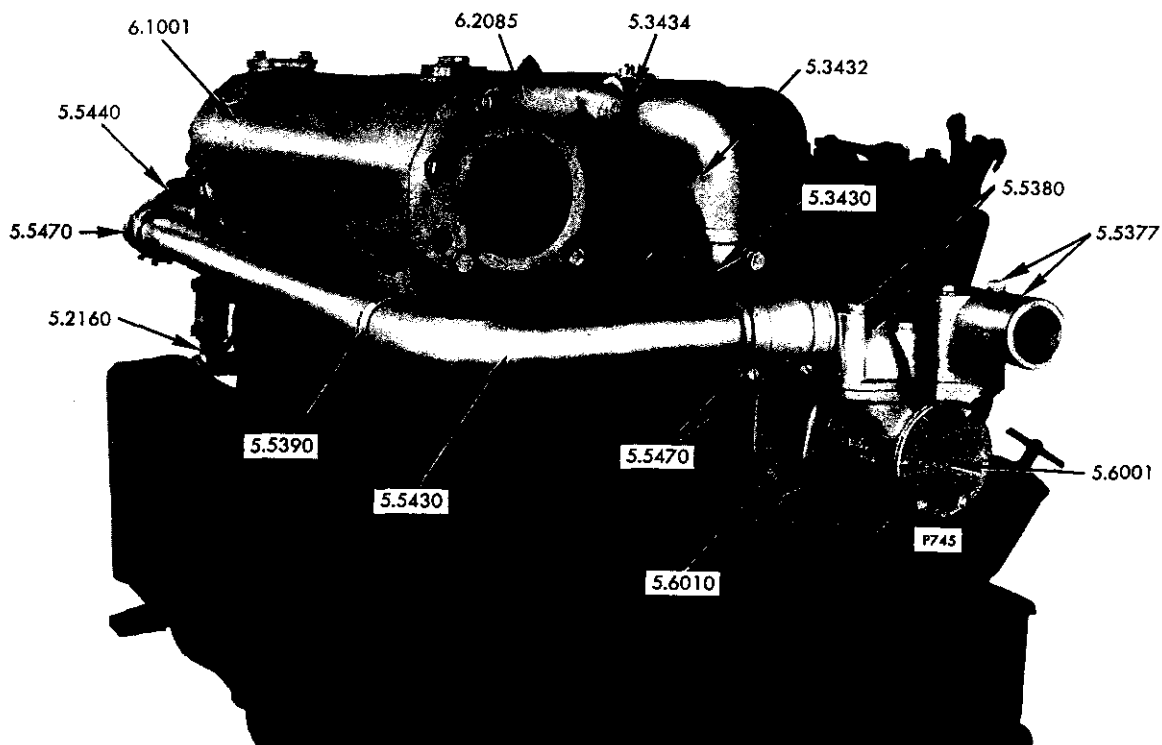


FIG. 7A TYPICAL RAW WATER PUMP INSTALLATION (In-Line Engines)

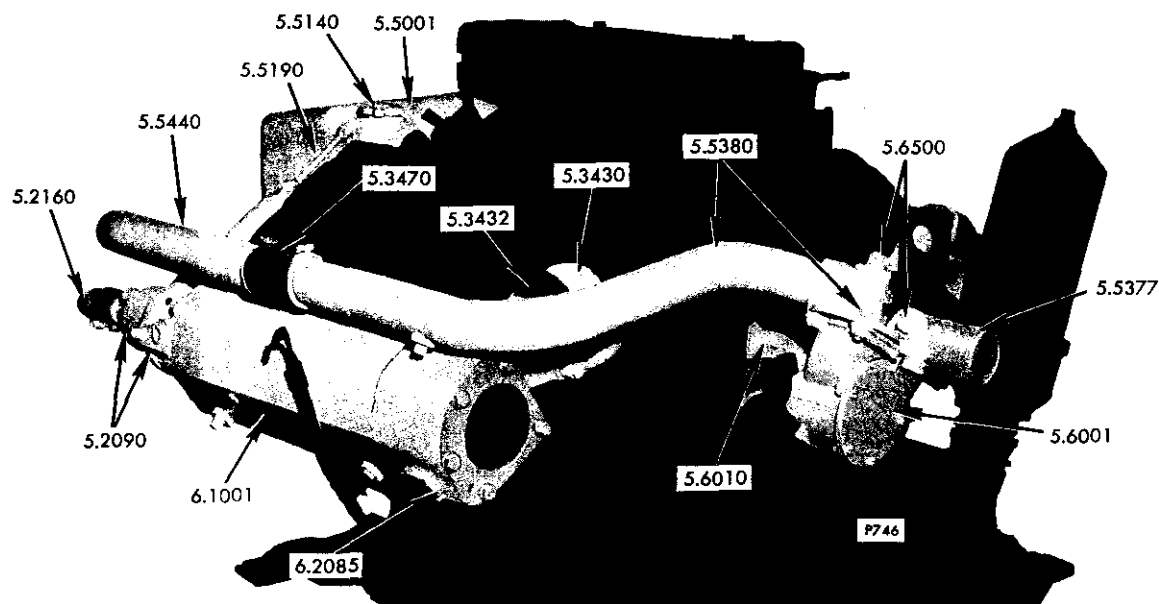


FIG. 7B TYPICAL RAW WATER PUMP INSTALLATION (V-Engines)

Figs. 7A & 7B of 5.0000

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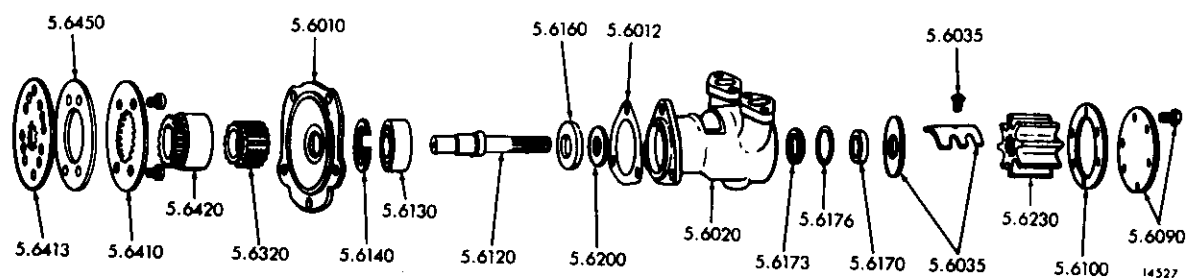


FIG. 8A RAW WATER PUMP (In-Line Models)

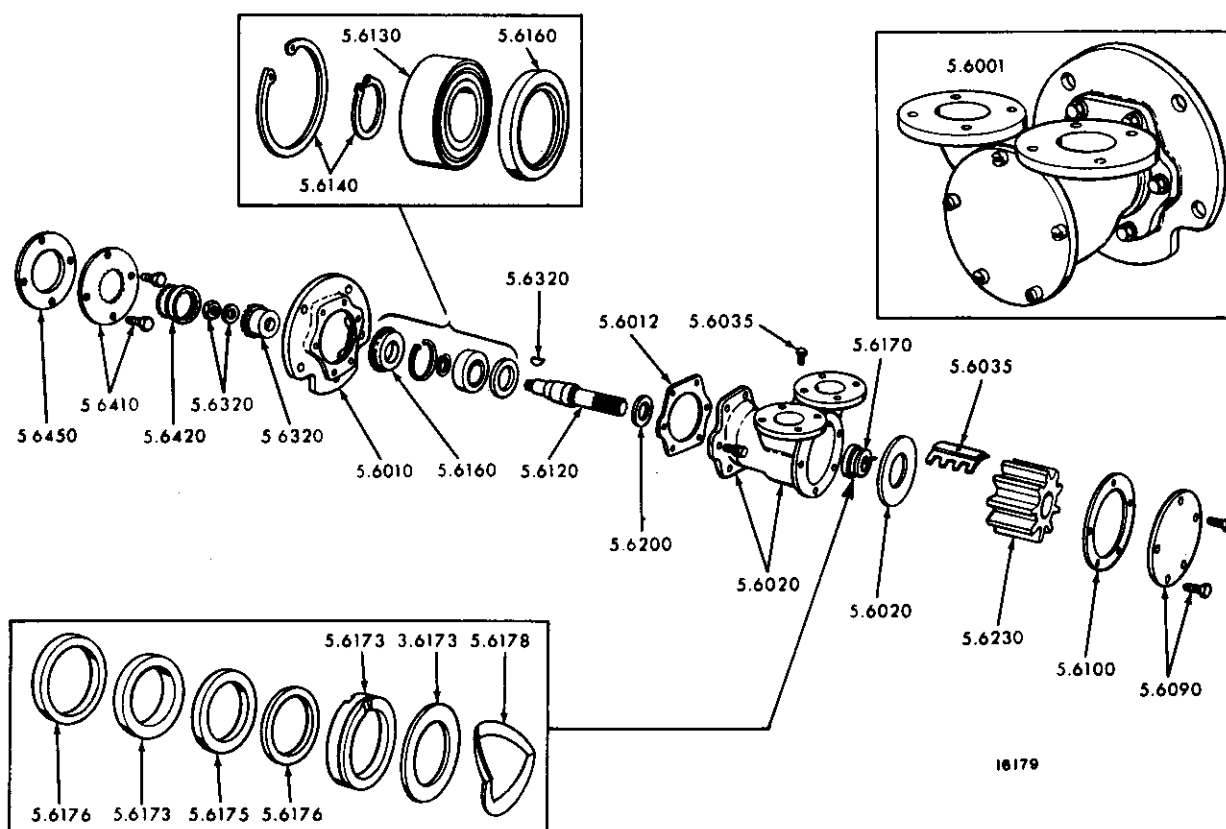


FIG. 8B RAW WATER PUMP (V-Models)

Figs. 8A & 8B of 5.0000

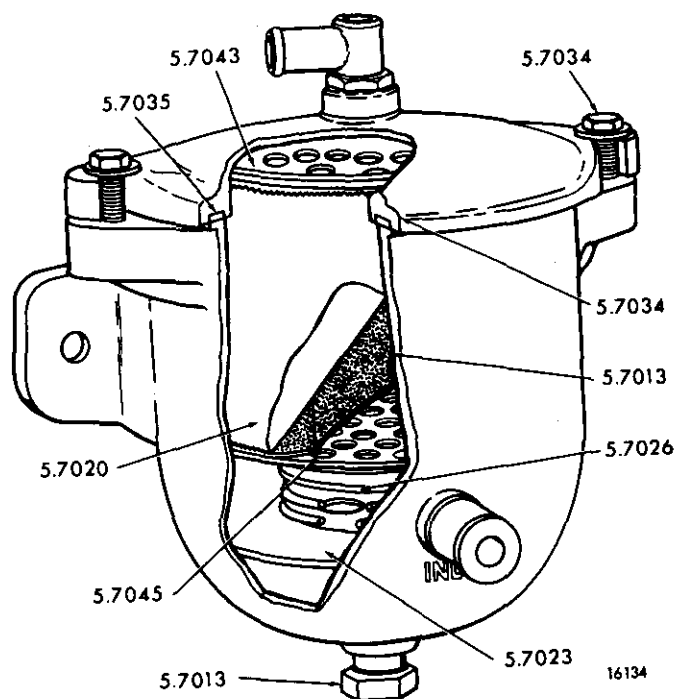


FIG. 9A WATER FILTER (Perry)

FIG. 9B TYPICAL WATER FILTER INSTALLATION

Figs. 9A & 9B of 5.0000

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5.1000 FRESH WATER PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 6	4 7	5 3	5 4	5 7	5 8	5 9
5.1001 - PUMP ASSY., FRESH WATER														
SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.														
1A	5195982	* PUMP ASSY., 2,3,4-53 (L. H. ROTATION) (PAGE A1)	1					1	1					
1A	5195983	* PUMP ASSY., 2,3,4,6V53 (R.H. ROTATION) (PAGE A1)		1		1	1							1
1A	5121216	* PUMP ASSY., 2-53 (R.H. ROTATION) (PAGE A1)			1									
1A	5123801	* PUMP ASSY., 2-53 (R. H. ROTATION) (PAGE A1)								1				
1A	5124349	* PUMP ASSY., 2-53 (R.H. ROTATION) (PAGE A1)									1			
1B	5121478	* PUMP ASSY., 6V53 (R.H. ROTATION) (C ENG.) (PAGE A1)										1		
1B	5121477	* PUMP ASSY., 6V53 (L.H. ROTATION) (A ENG.) (PAGE B1)											1	
	186625	@ BOLT, 5/16"-18X7/8" (12.9001)	5	5	5	5	5	5	5	5	5	4	4	5
	9421623	BOLT, 5/16"-18 X 7/8" (FRONT INSIDE HOLE) (12.9027)										1	1	
	179828	# BOLT, 5/16"-18X2 1/2" (12.9001)	5	5	2	5	5	5	5	5	5	4	4	5
	103320	LOCKWASHER, 5/16" (12.9200)			5									
	114493	# NUT, 5/16"-24 (12.9120)			3									
* NOT SERVICED, REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP. @ EFFECTIVE WITH 2D-761 ON TYPE 40. # THRU 2D-760.														
5.1002 - RECONDITIONING KIT, FRESH WATER PUMP														
INCLUDES ITEMS IN 5.1010, 5.1032, 5.1050, 5.1110 AND 5.1130.														
	5199535	RECONDITIONING KIT, 2,3,4,6V53 (L.H. ROTATION PUMP)	AR					AR	AR				AR	
	5199536	RECONDITIONING KIT, 2,3,4,6V53 (R.H. ROTATION PUMP)		AR	AR	AR	AR			AR	AR	AR		AR
5.1003 - TUBE, FRESH WATER PUMP VENT														
	5123166	TUBE ASSY., 3,4-53				1	1	1	1					
	5128855	TUBE ASSY., 3,4-53												1
	225810	ELBOW, 1/4" TUBE 90 DEG. (12.9480)				2	2	2	2					1
	442321	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)				1	1	1	1					

5.1000 FRESH WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION												
		3 8	3 9	4 0	4 4	4 5	4 6	4 7	5 3	5 4	5 7	5 8	5 9	
	5.1003 - TUBE, FRESH WATER PUMP VENT (CONT'D)													
	187321 CONNECTOR, 1/4" INV. FL. TUBE (12.9460)												1	
	5.1005 - ADAPTOR, FRESH WATER PUMP													
	5121390 * + ADAPTOR, 2-53			1										
	5124285 # + ADAPTOR, 2-53			1						1				
	5124245 * + SPACER, 2-53			1										
	5124406 * STUD, 5/16"-18-24X2.75"			3										
	114981 DRAINCOCK, 1/8" (12.9510)			1						1				
	186628 BOLT, 3/8"-16X1 1/2" (12.9001)			3						3				
	103321 LOCKWASHER, 3/8" (12.9200)			3						3				
	* THRU 2D-760.													
	# EFFECTIVE WITH 2D-761 ON TYPE 40.													
	+ OBSOLETE.													
	5.1006 - GASKET, FRESH WATER PUMP ADAPTOR													
	5175882 GASKET, 2-53 (ROUND) (4.4115)			1						1				
	5119329 GASKET, 2-53 (LONG)			1						1				
	5.1010 - GASKET, FRESH WATER PUMP													
2A	5133107 # GASKET, 2,3,4,6V53	1	1	1	1	1	1	1	1	1	1	1	1	
2A	5133107 * GASKET, 2-53			2										
	# EFFECTIVE WITH 2D-761 ON TYPE 40.													
	* THRU 2D-760.													
	5.1115 - REPLACEMENT KIT, FRESH WATER PUMP SEAL SEAT													
	A REPLACEMENT KIT INCLUDES CERAMIC INSERT AND ADHESIVE.													
	5197279 REPLACEMENT KIT, IMPELLER INSERT 2,3,4,6V53	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	5.1200 - PULLEY, FRESH WATER PUMP IDLER													
	A PULLEY ASSY. INCLUDES PULLEY AND ADJUSTING ARM, WHICH ARE NOT SERVICED SEPARATELY, AND BEARING IN 5.1202.													

5.1000 FRESH WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 8	3 9	4 0	4 4	4 5	4 6	4 7	5 3	5 4	5 7	5 8	5 9
		5.1200 - PULLEY, FRESH WATER PUMP IDLER (CONT'D)												
1B	5122991	# PULLEY ASSY., 6V53 (5139405)										1		
	5122992	# PULLEY ASSY., 2,3,4,6V53 (5139237)											1	
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)										2	2	
	103341	WASHER, 3/8" (12.9190)										2	2	
		# NOT SERVICED; USE PULLEY ASSY. SHOWN IN PARENTHESES.												
		5.1202 - BEARING, FRESH WATER PUMP IDLER PUMP IDLER PULLEY												
	907394	BEARING, 2,3,4,6V53										1	1	
		5.1215 - BELT, FRESH WATER PUMP DRIVE												
		NOTE: REFER TO 7.1000A OR 12.6000D FOR DRIVE BELT UNLESS LISTED BELOW.												
1B	5139228	BELT SET, 2,3,4,6V53 (2 BELTS) (36.76"LX.380" W.)										1	1	

5.1000 FRESH WATER PUMP

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			TYPES											
			6 0	6 1	6 2	6 7	7 0	7 1	7 2	7 4	7 7	8 3	8 5	9 3
5.1001 - PUMP ASSY., FRESH WATER														
SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.														
1A	5121216	* PUMP ASSY., 2-53 (R.H. ROTATION) (PAGE A1)	1											
1A	5195982	* PUMP ASSY., 2,3,4-53 (L.H. ROTATION) (PAGE A1)		1								1		
1A	5195983	* PUMP ASSY., 2,3,4,6V53 (R.H. ROTATION) (PAGE A1)			1		1							
1B	5121478	* PUMP ASSY., 6V53 (R.H. ROTATION) (C ENG.) (PAGE A1)				1								
1A	5109046	* PUMP ASSY., 3,4-53 (R.H. ROTATION) (PAGE A1)					1							
1A	5109553	* PUMP ASSY., 3,4-53 (L.H. ROTATION) (PAGE A1)							1					
1B	5109551	* PUMP ASSY., 6V53 (L.H. ROTATION) (A ENG.) (PAGE B1)								1				
1B	5109387	* PUMP ASSY., 6V53 (L.H. ROTATION) (PAGE A1)									1			
1B	5131602	* PUMP ASSY., 6V53 (L.H. ROTATION) (PAGE A1)											1	
1B	5144685	PUMP ASSY., 6V53 (L.H. ROTATION) (PAGE C1)												1
	186625	BOLT, 5/16"-18X7/8" (12.9001)	5	5	5	4	5	4	5	4	4	5	4	4
	9421623	BOLT, 5/16"-18 X 7/8" SOC. HD. (FRONT INSIDE HOLE) (12.9027)				1		1		1	1		1	1
	103320	LOCKWASHER, 5/16" (12.9200) * NOT SERVICED, REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP.	5	5	5	4	5	4	5	4	4	5	4	4
5.1002 - RECONDITIONING KIT, FRESH WATER PUMP														
INCLUDES ITEMS IN 5.1010, 5.1032, 5.1050, 5.1110 AND 5.1130.														
5199535	RECONDITIONING KIT, 2,3,4,6V53 (L.H. ROTATION PUMP)			AR					AR	AR	AR	AR	AR	
5199536	RECONDITIONING KIT, 2,3,4,6V53 (R.H. ROTATION PUMP)		AR		AR	AR	AR	AR						
5199533	RECONDITIONING KIT, 6V53 (L.H. ROTATION PUMP)													AR
5.1003 - TUBE, FRESH WATER PUMP VENT														
5129867	# HOSE, 1/4" I.D. X 26 3/4" L. 4-53 (7.4075)			1	1									
5129867	# HOSE, 1/4" I.D. X 22" L. 3-53 (7.4075)			1	1									

5.1000 FRESH WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	6 0	6 1	6 2	6 7	7 0	7 1	7 2	7 4	7 7	8 3	8 5	9 3
		5.1003 - TUBE, FRESH WATER PUMP VENT (CONT'D)												
	5137952	TUBE ASSY., 6V53						1						
	5168001	CLIP		2	2									
	225810	ELBOW, 1/4" TUBE 90 DEG. (12.9480)		1	1			1						
	9432337	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)												
	5114048	CONNECTOR, 1/4" HOSE X 1/4" INV. FL. TUBE SWIVEL (2.5217)		1	1			1						
	144045	BUSHING, 1/2"X1/4" RED. (12.9570) # STD. LENGTH HOSE, CUT TO LENGTH SHOWN.		2	2			1						
		5.1005 - ADAPTOR, FRESH WATER PUMP												
	5124265	+ ADAPTOR, 2-53	1											
	114981	DRAINCOCK, 1/8" (12.9510)	1											
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)	3											
	103321	LOCKWASHER, 3/8" (12.9200) + OBSOLETE.	3											
		5.1006 - GASKET, FRESH WATER PUMP ADAPTOR												
	5175882	GASKET, 2-53 (ROUND) (4.4115)	1											
	5119329	GASKET, 2-53 (LONG)	1											
		5.1010 - GASKET, FRESH WATER PUMP												
2A	5133107	GASKET, 2,3,4, 6V53	1	1	1	1	1	1	1	1	1	1	1	1
		5.1115 - REPLACEMENT KIT, FRESH WATER PUMP SEAL SEAT												
		A REPLACEMENT KIT INCLUDES CERAMIC INSERT AND ADHESIVE.												
	5197279	REPLACEMENT KIT, IMPELLER INSERT 2,3,4,6V53	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		5.1200 - PULLEY, FRESH WATER PUMP IDLER												
		A PULLEY ASSY. INCLUDES PULLEY AND ADJUSTING ARM, WHICH ARE NOT SERVICED SEPARATELY, AND BEARING IN 5.1202.												

5.1000 FRESH WATER PUMP

PART ..FIG ... NUMBER NAME AND DESCRIPTION			TYPES											
			6 0	6 1	6 2	6 7	7 0	7 1	7 2	7 4	7 7	8 3	8 5	9 3
5.1200 - PULLEY, FRESH WATER PUMP IDLER (CONT'D)														
1B	5139237	PULLEY ASSY., 6V53									1			
1B	5122991	# PULLEY ASSY., 6V53 (5139405)				1		1						
1B	5122992	# PULLEY ASSY., 2,3,4,6V53 (5139237)								1		1		1
	5164294	SPACER, 13/32" 7/8" X 1/8" 2,3,4-53 (7.1581)										1		
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)				2		2		2	2	1		2
	181371	BOLT, 3/8"-24X1 3/8" (12.9001)										1		
	181377	BOLT, 3/8"-24X1 3/4" (12.9001)										1		
	103341	WASHER, 3/8" (12.9190)				1		1		1	1	1		1
	103321	LOCKWASHER, 3/8" (12.9200)										2		
	117049	NUT, 3/8"-24 (12.9120)										2		
		# NOT SERVICED; USE PULLEY ASSY. SHOWN IN PARENTHESES.												
5.1202 - BEARING, FRESH WATER PUMP IDLER PUMP IDLER PULLEY														
	907394	BEARING, 2,3,4,6V53				1		1		1	1	1		1
5.1205 - BRACKET, FRESH WATER PUMP IDLER PULLEY														
	5130918	BRACKET, 2,3,4-53 (UPPER)										1		
	5130945	SUPPORT, 2,3,4-53 (LOWER)										1		
	179838	BOLT, 3/8"-16X7/8" (12.9001)										3		
	103321	LOCKWASHER, 3/8" (12.9200)										3		
5.1215 - BELT, FRESH WATER PUMP DRIVE														
NOTE: REFER TO 7.1000A OR 12.6000D FOR DRIVE BELT UNLESS LISTED BELOW.														
1B	5139228	BELT SET, 2,3,4,6V53 (2 BELTS) (36.76"L.X.380"W.)				1		1		1	1	1		
1B	5133177	BELT SET, 6V53 (2 BELTS) (37.50"L.X.380"W.) (7.1575)												1
5.1218 - GUARD, FRESH WATER PUMP DRIVE BELT														
5B	5121437	GUARD, 6V53				1		1						
	5129280	SPACER, 6V53 (2.90"L.)				1		1						
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)				1		1						
	120393	WASHER, 5/16" (12.9190)				2		2						
	103341	WASHER, 3/8" (12.9190)				1		1						

5.1000 FRESH WATER PUMP

PART FIG . . . NUMBER NAME AND DESCRIPTION		TYPES											
		9 4	9 5	9 7	9 8	1 0 8	1 1 2	1 1 3	1 1 5	1 1 6	1 1 9	1 2 0	1 2 3
5.1001 - PUMP ASSY., FRESH WATER													
FOR TYPE 114, USE TYPE 113. SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.													
1B	5135464 @ PUMP ASSY., 6V53 (L.H. ROTATION) (PAGE B1)	1				1							
1B	5133667 * PUMP ASSY., 8V53 (L.H. ROTATION) (A ENG.) (PAGE B1)		1										
1B	5198194 * PUMP ASSY., 8V53 (L.H. ROTATION) (A ENG.) (PAGE B1)			1	1								
1A	5142051 * PUMP ASSY., 2, 3, 4-53 (R.H. ROTATION) (PAGE B1)						1						
1A	5195983 * PUMP ASSY., 4-53 (R.H. ROTATION) (PAGE A1)							1					
1B	5109387 * PUMP ASSY., 6V53 (L.H. ROTATION) (PAGE A1)								1				
1A	5195982 * PUMP ASSY., 2,4-53 (L.H. ROTATION) (PAGE A1)									1			
1A	5136506 * PUMP ASSY., 3-53 (L.H. ROTATION) (PAGE B1)										1		1
1B	5134191 * PUMP ASSY., 6V53 (R.H. ROTATION) (PAGE B1)											1	
	5109886 SPACER, 1/2" I.D. X 1 1/8" O.D. X .16" 3-53							2					
	186625 BOLT, 5/16"-18X7/8" (12.9001)	5	4	4	4	4	5	5	4	5	5	4	5
	9421623 BOLT, 5/16"-18 X 7/8" SOC. HD. (12.9027)		1	1	1	1			1			1	
	186689 BOLT, 1/2"-13X2" (12.9001)										2		
	120393 WASHER, 5/16" (12.9190)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	103320 LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	103323 LOCKWASHER, 1/2" (12.9200)										2		
* NOT SERVICED, REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP.													
@ NOT SERVICED, USE 5144500 PLUS (1) 5146217, (1) 5133107 AND (1) 5142549.													
5.1002 - RECONDITIONING KIT, FRESH WATER PUMP													
INCLUDES ITEMS IN 5.1010, 5.1032, 5.1050, 5.1110 AND 5.1130.													
5199535	RECONDITIONING KIT, 6V53 (L.H. ROTATION PUMP)	1	1	1	1				1	1	1		1
5199536	RECONDITIONING KIT, 3,4,6V53 (R.H. ROTATION PUMP)						1	1				1	

5.1000 FRESH WATER PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	9 4	9 5	9 7	9 8	1 0 8	1 1 2	1 1 3	1 1 5	1 1 6	1 1 9	1 2 0	1 2 3
5.1003 - TUBE, FRESH WATER PUMP VENT														
	5137952	TUBE ASSY., 8V53				1								
	144045	BUSHING, 1/2"x1/4" RED. (12.9570)				1								
	9432337	ELBOW, 1/4" INV. FL. TUBE 90 DEG., 1/4" P.T. (12.9480)				1								
	225810	ELBOW, 1/4" INV. FL. TUBE 90 DEG., 1/8" P.T. (12.9480)				1								
5.1010 - GASKET, FRESH WATER PUMP														
2A	5133107	GASKET, 2,3,4,8V53	1	1	1	1	1	1	1	1	1	1	1	1
5.1115 - REPLACEMENT KIT, FRESH WATER PUMP SEAL SEAT														
A REPLACEMENT KIT INCLUDES CERAMIC INSERT AND ADHESIVE.														
	5197279	REPLACEMENT KIT, IMPELLER INSERT 2,3,4,6,8V53	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
5.1200 - PULLEY, FRESH WATER PUMP IDLER														
A PULLEY ASSY. INCLUDES PULLEY AND ADJUSTING ARM, WHICH ARE NOT SERVICED SEPARATELY, AND BEARING IN 5.1202.														
1B	5122992	# PULLEY ASSY., 2,6,8V53 (5139237)		1	1	1				1			1	
1B	5122991	# PULLEY ASSY., 2,3,4,6V53 (5139405)									1			
	5139405	PULLEY ASSY., 2,3,4-53				1		1	1					
1B	5109811	# PULLEY ASSY., 6V53 (5139237)					1							
	5136874	& * PULLEY ASSY., 3-53										1		
1B	5139238	# PULLEY ASSY., 6, 8V53 (5139237)	1											
	5136811	* PULLEY, 3-53 (5 3/5" DIA.)										1		
	5164294	SPACER, 13/32"x7/8"x1/8" 2,3,4-53 (7.1581)						1	1		1			1
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)	2	2	2	2	2		2	2			2	
	181371	BOLT, 3/8"-24X1 3/8" (12.9001)						1	1		1			1
	181377	BOLT, 3/8"-24X1 3/4" (12.9001)						1	1		1			1
	103341	WASHER, 3/8" (12.9190)	2	2	2	2	2	1	1	2	1		2	1

5.1000 FRESH WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	9 4	9 5	9 7	9 8	1 0 8	1 1 2	1 1 3	1 1 5	1 1 6	1 1 9	1 2 0	1 2 3
		5.1200 - PULLEY, FRESH WATER PUMP IDLER (CONT'D)												
103321		LOCKWASHER, 3/8" (12.9200)		AR	AR	AR	AR	AR	AR		AR			AR
117049		NUT, 3/8"-24 (12.9120)						2	2		2			2
		# NOT SERVICED; USE PULLEY ASSY. SHOWN IN PARENTHESES. & INCLUDES PULLEY IN 5.1200 AND ALSO ITEMS IN 5.1201, 5.1202, 5.1207, 5.1208, 5.1209 AND 5.1216. * OBSOLETE												
		5.1201 - ARM, IDLER PULLEY ADJUSTING												
5136805		* ARM, 2-53 (5.4343)										1		
		* OBSOLETE												
		5.1202 - BEARING, FRESH WATER PUMP IDLER PUMP IDLER PULLEY												
907394		BEARING, 3,4,6,8V53		1	1	1	1	1	1	1	1	1	1	1
7450630		BEARING, 3-53 (REAR) (5.4110)										1		
9415132		BEARING, 3-53 (FRONT) (5.4110)										1		
5131095		RETAINER, GREASE 3,4-53 (5.4110)										1		
5131124		SHIM, .015" (5.4110)										1		
5131205		SHIM, .020" (5.4110)										1		
5131206		SHIM, .025" (5.4110)										1		
		5.1205 - BRACKET, FRESH WATER PUMP IDLER PULLEY												
5136500		BRACKET, 2,3,4-53						1	1		1			
5139080		BRACKET, 2-53												1
5136498		SUPPORT, 2,3,4-53						1	1		1			
5136770		% SUPPORT, 3-53										1		
5130945		SUPPORT, 2-53												1
179838		BOLT, 3/8"-16X7/8" (12.9001)						3	3		3			AR
186678		BOLT, 3/8"-16X1" (12.9001)												1
186612		BOLT, 3/8"-16X1 3/8" (12.9001)										3		AR
103321		LOCKWASHER, 3/8" (12.9200)						AR	AR		AR	AR		AR
		% OBSOLETE.												
		5.1207 - SEAL, IDLER PULLEY SHAFT												
5108219		SEAL, 3-53 (5.4150)										1		
		5.1208 - RETAINER, IDLER PULLEY SHAFT BEARING												
9409060		BOLT, 1/2"-20X1 1/2" LOCK (12.9001)										1		
5131123		WASHER, 33/64" I.D.X.32" THICK (5.4140)										1		

5.1000 FRESH WATER PUMP

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			9 4	9 5	9 7	9 8	1 0 8	1 1 2	1 1 3	1 1 5	1 1 6	1 1 9	1 2 0	1 2 3
		5.1209 - SPACER, IDLER PULLEY SHAFT BEARING												
	5131122	SPACER, 3-53 (5.4170)										1		
		5.1215 - BELT, FRESH WATER PUMP DRIVE												
		NOTE: REFER TO 7.1000A OR 12.6000D FOR DRIVE BELT UNLESS LISTED BELOW.												
	5133177	BELT SET, 6.8V53 (2 BELTS) (37"LX.380"W.) (7.1575)	1											
	5139228	BELT SET, 6.8V53 (2 BELTS) (36.76"LX.380"W.)		1	1	1	1			1	1		1	
	5135031	BELT SET, 2, 3, 4-53 (2 BELTS) (36"LX.380"W.)						1						
	5133178	BELT SET, 2, 3, 4-53 (2 BELTS) (36"LX.380"W.) (7.1575)							1		1			1
	5137110	BELT SET, 3-53 (2 BELTS) (38"LX.380"W.)										1		
		5.1216 - HUB, FRESH WATER PUMP DRIVEN PULLEY												
	5144798	CAP, 3-53 (5.4180)										1		
		5.1218 - GUARD, FRESH WATER PUMP DRIVE BELT												
58	5133607	GUARD, 8V53				1								
	5129280	SPACER, 2.90"L. 8V53				1								
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)				1								

5.1000 FRESH WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 2 4	1 2 7	1 2 8	1 2 9	1 3 3	1 3 4	1 3 8	1 4 2	1 4 5	1 4 6	1 4 8	1 4 9
5.1001 - PUMP ASSY., FRESH WATER														
SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.														
1A	5195982	* PUMP ASSY., 2,4-53 (L.H. ROTATION) (PAGE A1)	1											
1B	5121478	* PUMP ASSY., 6V53 (R.H. ROTATION) (PAGE A1)		1										
1A	5141747	* PUMP ASSY., 4,6V53 (L.H. ROTATION) (PAGE B1)			1									
1A	5142051	* PUMP ASSY., 2,3,4-53 (R.H. ROTATION) (PAGE B1)				1								
1B	5109551	* PUMP ASSY., 6V53 (L.H. ROTATION) (A ENG.) (PAGE B1)					1							
1B	5141891	PUMP ASSY., 8V53 (L.H. ROTATION) (PAGE C1)						1						
1A	5144717	PUMP ASSY., 3-53 (R.H. ROTATION) (PAGE B1)							1					
1B	5136883	* PUMP ASSY., 6V53 (R.H. ROTATION) (NON-MAGNETIC) (PAGE C1)								1				
1A	5144685	PUMP ASSY., 3,4-53 (L.H. ROTATION) (PAGE C1)									1			1
1A	5144686	PUMP ASSY., 2,3,4-53 (R.H. ROTATION) (PAGE C1)										1	1	
	5144920	BALL, 7/16" RUBBER (DRAIN PLUG) (5.1030)										1		
	5145014	PLUG, 3/8" PIPE (12.9550)						1				1		
	186625	BOLT, 5/16"-18X7/8" (12.9001)	5	4	4	5	4		5	4	5	5	5	5
	9421623	BOLT, 5/16"-18 X 7/8" SOC. HD. (12.9027)		1	1		1			1				
	5148291	BOLT, 3/8"-16 X 2 3/4" (12.9027)						2						
	120393	WASHER, 5/16" (12.9190)							5					
	5164292	WASHER, 7/16" (1.7605)						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						
	117049	NUT, 3/8"-24 (12.9120)						4						
* NOT SERVICED, REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP.														
5.1002 - RECONDITIONING KIT, FRESH WATER PUMP														
INCLUDES ITEMS IN 5.1010, 5.1032, 5.1050, 5.1110 AND 5.1130.														
5199533	RECONDITIONING KIT, 2,3,4,8V53 (L.H. ROTATION PUMP)										1			1

5.1000 FRESH WATER PUMP

PART		TYPES												
..FIG ..	NUMBER	NAME AND DESCRIPTION	1 2 4	1 2 7	1 2 8	1 2 9	1 3 3	1 3 4	1 3 8	1 4 2	1 4 5	1 4 6	1 4 8	1 4 9
		5.1002 - RECONDITIONING KIT, FRESH WATER PUMP (CONT'D)												
	5199535	RECONDITIONING KIT, 6V53 (L.H. ROTATION PUMP)	1		1		1							
	5199536	RECONDITIONING KIT, 3,4,6V53 (R.H. ROTATION PUMP)		1		1				1				
	5199534	RECONDITIONING KIT, 3-53 (R.H. ROTATION PUMP)							1			1	1	
		5.1003 - TUBE, FRESH WATER PUMP VENT												
	5109733	TUBE ASSY., 6V53								1				
	5123166	TUBE, 3,4-53											1	1
	5132612	HOSE ASSY., 1/2" X 11" L. 8V53 (7.8300)						1						
	144051	* BUSHING, 1/2"X1/4" RED. (12.9570)								1				
	442321	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)											1	1
	9432337	ELBOW, 1/4" INV. FL. TUBE 90 DEG., 1/4" P.T. (12.9480)								1				
	225810	ELBOW, 1/4" INV. FL. TUBE 90 DEG., 1/8" P.T. (12.9480)								1			1	1
	9432245	ELBOW, 5/16" INV. FL. TUBE 90 DEG., 1/4" P.T. (12.9480)						1						
	143337	ELBOW, 5/16" INV. FL. TUBE 45 DEG., 1/4" P.T. (12.9480)						1						
		* OBSOLETE												
		5.1010 - GASKET, FRESH WATER PUMP												
2A	5133107	GASKET, 3,4,6V, 8V53	1	1	1	1	1	1	1	1	1	1	1	1
	5141918	GASKET, 8V53						1						
		5.1115 - REPLACEMENT KIT, FRESH WATER PUMP SEAL SEAT												
		A REPLACEMENT KIT INCLUDES CERAMIC INSERT AND ADHESIVE.												
	5197279	REPLACEMENT KIT, IMPELLER INSERT 2,3,4,6,8V53	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR	AR
		5.1200 - PULLEY, FRESH WATER PUMP IDLER												
		A PULLEY ASSY. INCLUDES PULLEY AND ADJUSTING ARM, WHICH ARE NOT SERVICED SEPARATELY, AND BEARING IN 5.1202.												

5.1000 FRESH WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 2 4	1 2 7	1 2 8	1 2 9	1 3 3	1 3 4	1 3 8	1 4 2	1 4 5	1 4 6	1 4 8	1 4 9
5.1200 - PULLEY, FRESH WATER PUMP IDLER (CONT'D)														
1B	5122992	# PULLEY ASSY., 2,6,8V53 (5139237)			1									
	5139405	PULLEY ASSY., 2,3,4-53		1										
1B	5139238	# PULLEY ASSY., 6, 8V53 (5139237)					1							
1B	5139237	PULLEY ASSY., 2,6,8V53	1				1							
1B	5139239	* PULLEY ASSY., 2,6V53								1				
1B	5143880	PULLEY ASSY., 3-53							1					
	5143806	SHAFT							1					
	5164294	SPACER, 13/32"X7/8"X1/8" 2,3,4-53 (7.1581)	1						1					
	5143879	BUSHING, IDLER ARM PIVOT 3-53							2					
	5134103	SPRING							1					
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)		2	2		2	2		2				
	186288	BOLT, 3/8"-16X4 1/2" (12.9001)							1					
	181371	BOLT, 3/8"-24X1 3/8" (12.9001)	1											
	181377	BOLT, 3/8"-24X1 3/4" (12.9001)	1				1							
	5187641	WASHER, 25/64"X1 1/8"X1/16" (1.7605)							1					
	187372	WASHER, 3/8" (12.9190)								2				
	103341	WASHER, 3/8" (12.9190)	1	2	2									
	103321	LOCKWASHER, 3/8" (12.9200)	AR											
	117049	NUT, 3/8"-24 (12.9120)	2											
# NOT SERVICED; USE PULLEY ASSY. SHOWN IN PARENTHESES.														
* OBSOLETE														
5.1202 - BEARING, FRESH WATER PUMP IDLER PUMP IDLER PULLEY														
	907394	BEARING, 3,4,6,8V53	1	1	1			1		1				
5.1205 - BRACKET, FRESH WATER PUMP IDLER PULLEY														
	5130918	BRACKET, 2-53	1											
	5130945	SUPPORT, 2-53	1											
	179838	BOLT, 3/8"-16X7/8" (12.9001)	AR											
	103321	LOCKWASHER, 3/8" (12.9200)	AR											
5.1215 - BELT, FRESH WATER PUMP DRIVE														
NOTE: REFER TO 7.1000A OR 12.6000D FOR DRIVE BELT UNLESS LISTED BELOW.														
	5133178	BELT SET, 2,3,4-53 (2 BELTS) (36"LX.380"W.) (7.1575)	1											
	5133177	BELT SET, 6,8V53 (2 BELTS) (37"LX.380"W.) (7.1575)								1				
	5130948	BELT SET, 6V53 (2 BELTS) (37" L. X 380" W.)					1							
	5134089	BELT SET, 3-53 (2 BELTS) (35" LX380" W.) (1.3320)							1					

5.1000 FRESH WATER PUMP

PART			TYPES											
.FIG .	NUMBER	NAME AND DESCRIPTION	1 2 4	1 2 7	1 2 8	1 2 9	1 3 3	1 3 4	1 3 8	1 4 2	1 4 5	1 4 6	1 4 8	1 4 9
	5.1215	BELT, FRESH WATER PUMP DRIVE (CONT'D)												
	5137861	BELT SET 8V53 (2 BELTS) (39"L.X.380"W")						1						
	5139228	BELT SET, 6,8V53 (2 BELTS) (36.76"L.X.380"W.)			1									
	5.1218	GUARD, FRESH WATER PUMP DRIVE BELT												
5B	5121437	GUARD, 6V53								1				
	5129280	SPACER, 3/8" PIPE X2.90"L. 8V53								1				
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)								1				
	120393	WASHER, 5/16" (12.9190)								2				
	187372	WASHER, 3/8" (12.9190)								1				

5.1000 FRESH WATER PUMP

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 5 0	1 5 1	1 5 2	1 5 3	1 5 4	1 5 5	1 5 6	1 5 7	1 5 8	1 5 9	1 6 0	1 6 1
5.1001 - PUMP ASSY., FRESH WATER														
SEE ASSEMBLY BREAKDOWN PAGE AS INDICATED BELOW.														
1A	5144685	PUMP ASSY., 2,3,4,6,8V53 (L.H. ROTATION) (PAGE C1)	1	1	1	1	1						1	
1A	5144686	PUMP ASSY., 2,3,4,6V53 (R.H. ROTATION) (PAGE C1)						1	1	1	1	1		1
	5144920	BALL, 7/16" RUBBER 3,4,6V53 (DRAIN PLUG) (5.1030)						1					1	
	9421623	BOLT, 5/16"-18 X 7/8" SOC. HD. (FRONT INSIDE HOLE) (12.9027)				1	1					1	1	1
	186625	BOLT, 5/16"-18X7/8" (12.9001)	5	5	5	4	4	5	5	5	5	4	4	4
	103320	LOCKWASHER, 5/16" (12.9200)	AR	5	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
5.1002 - RECONDITIONING KIT, FRESH WATER PUMP														
INCLUDES ITEMS IN 5.1010, 5.1032, 5.1050, 5.1110 AND 5.1130.														
	5199533	RECONDITIONING KIT, 2,3,4,6,8V53 (L.H. ROTATION)	1	1	1	1	1						1	
	5199534	RECONDITIONING KIT, 2,3,4,6V53 (R.H. ROTATION)						1	1	1	1	1		1
5.1003 - TUBE, FRESH WATER PUMP VENT														
	5137952	TUBE ASSY., 8V53					1							
	5128855	TUBE ASSY., 3,4-53									1			
	5109733	TUBE ASSY., 6V53										1		
	5129867	# HOSE, 1/4" I.D. X 26 3/4" L. 4-53 (7.4075)	1							1				
	225810	ELBOW, 1/4" TUBE 90 DEG. (12.9480)	1				1			1	1	1		
	9432337	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)	1				1			1		1		
	125859	ELBOW, 1/4" INV. FL. TUBE 45 DEG. (12.9390)	1							1				
	5114048	CONNECTOR, 1/4" HOSE X 1/4" INV. FL. TUBE SWIVEL (2.5217)	2							2				
	187321	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)									1			
	144045	BUSHING, 1/2" X 1/4" RED. (12.9570)					1					1		
	5168001	CLIP, 1/2" (12.4095)	2							2				
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												
5.1010 - GASKET, FRESH WATER PUMP														
2A	5133107	GASKET, 2,3,4,6,8V53	1	1	1	1	1	1	1	1	1	1	1	1

5.1000 FRESH WATER PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 5 0	1 5 1	1 5 2	1 5 3	1 5 4	1 5 5	1 5 6	1 5 7	1 5 8	1 5 9	1 6 0	1 6 1
	5.1115	REPLACEMENT KIT, FRESH WATER PUMP SEAL SEAT												
		A REPLACEMENT KIT INCLUDES CERAMIC INSERT AND ADHESIVE.												
	5197279	KIT, IMPELLER				1								
	5.1200	PULLEY, FRESH WATER PUMP IDLER												
		PULLEY ASSYS. 5139237, 5139405 AND 5148444 INCLUDE PULLEY AND ADJUSTING ARM, WHICH ARE NOT SERVICED SEPARATELY, AND BEARING IN 5.1202. PULLEY ASSY. 5136874 INCLUDES PULLEY, 5131123 SPACER, CAP, 9409060 BOLT, IN 5.1200 PLUS ITEMS IN 5.1201, 5.1202 AND 5.1207.												
1B	5139237	PULLEY ASSY., 2,3,4,6,8V53		1	1	1	1						1	
1B	5139405	PULLEY ASSY., 2,3,6V53						1	1			1		1
	5164294	SPACER, 13/32"x7/8"x1/8" 2,3,4-53 (7.1581)		1	1			1	1					
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)				2	2					2	2	2
	181371	BOLT, 3/8"-24X1 3/8" (12.9001)		1	1			1	1					
	9414268	BOLT, 3/8"-24 X 1 1/2" (12 PT) (12.9001)		1										
	181377	BOLT, 3/8"-24X1 3/4" (12.9001)			1			1	1					
	103341	WASHER, 3/8" (12.9190)			AR	AR	AR	AR	AR			AR	AR	AR
	103321	LOCKWASHER, 3/8" (12.9200)		2	2			2	2					
	102635	NUT, 3/8"-16 (12.9120)			1									
	117049	NUT, 3/8"-24 (12.9120)		2	1			2	2					
	5.1202	BEARING, FRESH WATER PUMP IDLER PUMP IDLER PULLEY												
	907394	BEARING, 2,3,4,6,8V53		1	1	1	1	1	1			1	1	1
	5.1205	BRACKET, FRESH WATER PUMP IDLER PULLEY												
	5136498	BRACKET, 2,3,4-53 (UPPER)						1	1					
	5136500	BRACKET, 2,3,4-53 (LOWER)						1	1					
	5130945	BRACKET, 2,3,4-53 (LOWER)			1									
	5130918	BRACKET, 2,3,4-53 (UPPER)		1	1									
	5142214	BRACKET, 3,4-53 (LOWER)		1										
	179838	BOLT, 3/8"-16X7/8" (12.9001)		3	3			3	3					
	103321	LOCKWASHER, 3/8" (12.9200)		3	3			3	3					

5.1000 FRESH WATER PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 5 0	1 5 1	1 5 2	1 5 3	1 5 4	1 5 5	1 5 6	1 5 7	1 5 8	1 5 9	1 6 0	1 6 1
5.1215 - BELT, FRESH WATER PUMP DRIVE														
NOTE: REFER TO 7.1000A OR 12.6000D FOR DRIVE BELT UNLESS LISTED BELOW.														
1B	5133178	BELT SET, 2,3,4-53 (2 BELTS) (36.00 L. X 380 W.) (COGGED)		1		1	1		1			1		1
1B	5135031	BELT SET, 3,4-53 (2 BELTS) (36.00"L.X.380"W.)			1			1						
1B	5130948	BELT SET, 4-53 (2 BELTS) (37"L.X.380"W.)											1	
5.1218 - GUARD, FRESH WATER PUMP DRIVE BELT														
5B	5133607	GUARD, 8V53					1							
5B	5121437	GUARD, 6V53											1	
	5129280	SPACER, 6,8V53 (2.90"L.)					1						1	
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)					1						1	
	120393	WASHER, 5/16" (12.9190)											2	
	103341	WASHER, 3/8" (12.9190)											1	

5.1000 FRESH WATER PUMP

PART .. FIG .. NUMBER .. NAME AND DESCRIPTION ..			TYPES							
			1 6 2	1 6 3	1 6 9	1 8 0	1 9 2	1 9 3	2 0 4	2 0 8
5.1001 - PUMP ASSY., FRESH WATER										
SEE ASSEMBLY BREAKDOWN AS INDICATED BELOW.										
1A	5144685	PUMP ASSY., 2,3,4,6,8V53 (L.H. ROTATION) (PAGE C1)	1	1						
1A	5144500	+ PUMP ASSY., 3-53, 6V53 (L.H. ROTATION) (PAGE C1) (5104392)			1		1			
1A	5148442	PUMP ASSY., 3,4-53 (R.H. ROTATION) (PAGE C1)				1		1		
	5144686	PUMP ASSY., 3-53 (R.H. ROTATION) (PAGE C1)							1	1
	5144920	BALL, 7/16" RUBBER 3,4,6V53 (DRAIN PLUG) (5.1030)				1		1	1	
	8923313	PLUG, 3/4" PIPE TEF. (12.9550)					1		1	2
	186625	BOLT, 5/16"-18X7/8" (12.9001)	5	5	5	5	4	5	5	4
	9421623	BOLT, 5/16"-18 X 7/8" SOC. HD. (FRONT INSIDE HOLE) (12.9027)					1			1
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR
	120393	WASHER, 5/16" (12.9190)					4			
+ NOT SERVICED, USE PART NUMBER IN PARENTHESES.										
5.1002 - RECONDITIONING KIT, FRESH WATER PUMP										
INCLUDES ITEMS IN 5.1010, 5.1032, 5.1050, 5.1110 AND 5.1130.										
	5199533	RECONDITIONING KIT, 2,3,4,6,8V53 (L.H. ROTATION)	1	1	1		1			
5.1010 - GASKET, FRESH WATER PUMP										
2A	5133107	GASKET, 2,3,4,6,8V53	1	1	1	1	1	1	1	
5.1200 - PULLEY, FRESH WATER PUMP IDLER										
PULLEY ASSYS. 5139237, 5139405 AND 5148444 INCLUDE PULLEY AND ADJUSTING ARM, WHICH ARE NOT SERVICED SEPARATELY, AND BEARING IN 5.1202. PULLEY ASSY. 5136874 INCLUDES PULLEY, 5131123 SPACER, CAP, 9409060 BOLT, IN 5.1200 PLUS ITEMS IN 5.1201, 5.1202 AND 5.1207.										
1B	5139237	PULLEY ASSY., 2,3,4,6,8V53	1	1						
	5136874	+ PULLEY ASSY., 2-53			1					
	5148444	+ PULLEY ASSY., 3,4-53				1				
	5136811	+ PULLEY, 2-53 (2 GROOVES, 5.60" DIA.)			1					
1B	5139238	# PULLEY ASSY., 6V53 (5139237)					1			
	5139405	PULLEY ASSY., 3-53							1	1

5.1000 FRESH WATER PUMP

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES							
			1 6 2	1 6 3	1 6 9	1 8 0	1 9 2	1 9 3	2 0 4	2 0 8
		5.1200 - PULLEY, FRESH WATER PUMP IDLER (CONT'D)								
	5144798	CAP, PULLEY END 2-53			1					
	5164294	SPACER, 13/32"X7/8"X1/8" 2,3,4-53 (7.1581)	2	1		1			1	
	5109886	SPACER, 2-53 (ASSY. TO SUPPORT)			2					
	5131123	SPACER, BEARING RETAINING 2-53			1					
	9414268	BOLT, 3/8"-16 X 1 1/2" (12.9005)	1			1				
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)					2			2
	181371	BOLT, 3/8"-24X1 3/8" (12.9001)		1					1	
	181377	BOLT, 3/8"-24X1 3/4" (12.9001)	1	1		1				
	186689	BOLT, 1/2"-13X2" (12.9001)			2					
	9409060	BOLT, 1/2"-20X1 1/2" (12.9001)			1					
	103341	WASHER, 3/8" (12.9190)		AR			AR		AR	AR
	103321	LOCKWASHER, 3/8" (12.9200)	2	2		2			2	
	103323	LOCKWASHER, 1/2" (12.9200)			2					
	102635	NUT, 3/8"-16 (12.9120)	2			1				
	117049	NUT, 3/8"-24 (12.9120)		2		1			2	
		# NOT SERVICED; USE PULLEY ASSY. SHOWN IN PARENTHESES.								
		+ OBSOLETE.								
		5.1201 - ARM, IDLER PULLEY ADJUSTING								
	5136805	+ # ARM, ADJUSTING 2-53			1					
		# INCLUDES INTEGRAL CAST PULLEY SHAFT.								
		+ OBSOLETE.								
		5.1202 - BEARING, FRESH WATER PUMP IDLER PUMP IDLER PULLEY								
	907394	BEARING, 2,3,4,6,8V53	1	1			1			
	7450630	BEARING, 2-53 (INNER) (5.4110)			1					
	9415132	BEARING, 2-53 (OUTER) (5.4110)			1					
	908140	BEARING, 3,4-53				1				
	5131122	SPACER, BEARING 2-53 (5.4170)			1					
	5131095	BAFFLE, GREASE 2-53 (5.4110)			1					
	5131124	SHIM, .015" (5.4110)			AR					
	5131205	SHIM, .020" (5.4110)			AR					
	5131206	SHIM, .025" (5.4110)			AR					
		5.1205 - BRACKET, FRESH WATER PUMP IDLER PULLEY								
	5139060	BRACKET, 2,3,4-53 (UPPER)		1						
	5136498	BRACKET, 2,3,4-53 (UPPER)				1			1	
	5136500	BRACKET, 2,3,4-53 (LOWER)				1			1	
	5130945	BRACKET, 2,3,4-53 (LOWER)	1	1						
	5130918	BRACKET, 2,3,4-53 (UPPER)	1							
	5136770	* SUPPORT, 3-53			1					
	179838	BOLT, 3/8"-16X7/8" (12.9001)	3	3		3			3	

5.1000 FRESH WATER PUMP

..FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES									
			1 6 2	1 6 3	1 6 9	1 8 0	1 9 2	1 9 3	2 0 4	2 0 8		
		5.1205 - BRACKET, FRESH WATER PUMP IDLER PULLEY (CONT'D)										
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)			3				1			
	181377	BOLT, 3/8"-24 X 1 3/4" (12.9001)							3			
	103321	LOCKWASHER, 3/8" (12.9200)	3	3	3	3			3			
		* OBSOLETE.										
		5.1207 - SEAL, IDLER PULLEY SHAFT										
	5108219	SEAL (5.4150)			1							
		5.1215 - BELT, FRESH WATER PUMP DRIVE										
		NOTE: REFER TO 7.1000A OR 12.6000D FOR DRIVE BELT UNLESS LISTED BELOW.										
1B	5133178	BELT SET, 2,3,4-53 (2 BELTS) (36.00"LX.380"W.)	1	1					1			
1B	5135031	BELT SET, 3,4-53 (2 BELTS) (36.00"LX.380"W.)				1						
1B	5137110	BELT SET, 3-53 (2 BELTS) (38.00"LX.380"W.)			1							
1B	5133177	BELT SET, 6, 6V53 (2 BELTS) (37.00" L. X 380" W.)					1			1		
		5.1218 - GUARD, FRESH WATER PUMP DRIVE BELT										
5B	5121437	GUARD, 6V53								1		
	5129280	SPACER, 6, 8V53 (2.90" L.)								1		
	192883	BOLT, 3/8"-16 X 5 1/4" (12.9001)								1		
	103341	WASHER, 3/8" (12.9190)								1		
	120393	WASHER, 5/16" (12.9190)								2		

5.1000 FRESH WATER PUMP

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		5.1001 - PUMP ASSY., FRESH WATER													
1A	5195982	# PUMP ASSY., 2,3,4-53 (L.H. ROTATION)	1												
1A,B	5195983	# PUMP ASSY., 2,3,4,6V53		1											
1A	5121216	# PUMP ASSY., 2-53 (R.H. ROTATION)			1										
1A	5123801	# PUMP ASSY., 2-53 (R.H. ROTATION)				1									
1A	5124349	# PUMP ASSY., 2-53 (R.H. ROTATION)					1								
	5121478	# PUMP ASSY., 6V53 (R.H. ROTATION) (C ENG.)						1							
1B	5109387	# PUMP ASSY., 6V53 (L.H. ROTATION)							1						
1A	5109046	# PUMP ASSY., 3,4-53 (R.H. ROTATION)								1					
1B	5131602	# PUMP ASSY., 6V53 (L.H. ROTATION)									1				
1A	5109553	# PUMP ASSY., 3,4-53 (L.H. ROTATION)										1			
		# NOT SERVICED, SHOWN FOR COMPONENT REFERENCE ONLY													
		5.1030 - BODY, FRESH WATER PUMP													
2A	5131547	# BODY, 3,4-53 (L.H. ROTATION)	1												
2A	5119281	# BODY, 2,3,4,6V53 (R.H. ROTATION)		1	1	1	1								
2A	5121475	# BODY, 2-53 (R.H. ROTATION) (C ENG.)						1							
2A	5109045	# BODY, 6V53 (R.H. ROTATION)								1					
2A	5121474	# BODY, 2,3,4-53 (L.H. ROTATION) (A ENG.)									1				
2A	5109554	# BODY, 2,3,4,6V53 (L.H. ROTATION)										1			
2A	5135421	# BODY ASSY., 2-53 (L.H. ROTATION) (INCLUDES 8" NIPPLE)							1						
2A	5119477	NIPPLE, 7/8" O.D. X 1 5/8" L. (5.2160)	1	1	1	1	1			1		1			
2A	5109219	+ NIPPLE, 1 1/8" O.D. X 2.56" L.									1		1		
2A	5121479	NIPPLE, 1 1/8" O.D. X 3 3/16" L.						1							
2A	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1	1		
	5115214	PLUG, 1/2" PIPE (12.9550)									1		1		
	5119218	PLUG, 7/8" CUP (5.1030)	2	2				1	1		1				
		# NOT SERVICED, REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP.													
		+ OBSOLETE.													
		5.1031 - COVER, FRESH WATER PUMP													
2A	5119283	COVER, 2,3,4,6V53	1	1	1	1	1	1	1	1	1	1	1		
	5148436	BOLT, 5/16"-18X3/4" (W/LW) (12.9001)	7	7	7	7	7	7	7	7	7	7	7		
		5.1032 - GASKET, FRESH WATER PUMP BODY COVER													
2A	5119282	GASKET, 2,3,4,6V53	1	1	1	1	1	1	1	1	1	1			

5.1000 FRESH WATER PUMP

PART			COLUMN													
..FIG ..	NUMBER ..	NAME AND DESCRIPTION ..	A	B	C	D	E	F	G	H	I	J	K	L	M	N
5.1050 - SHAFT, FRESH WATER PUMP																
2A	904827	SHAFT ASSY., 2,3,4,6V53 (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1				
5.1110 - IMPELLER, FRESH WATER PUMP																
2A	5146563	IMPELLER, 2,3,4,6V53 (L.H. ROTATION) (WITH CERAMIC INSERT)	1						1		1	1				
2A	5146562	IMPELLER, 2,3,4,6V53 (R.H. ROTATION) (WITH CERAMIC INSERT)		1	1	1	1	1		1						
5.1130 - SEAL, FRESH WATER PUMP																
2A	5130959	SEAL, 2,3,4,6V53	1	1	1	1	1	1	1	1	1	1				
5.1214 - PULLEY, FRESH WATER PUMP																
2A	5119465	# PULLEY, 2,3,4,6V53	1	1					1	1	1	1	1			
2A	5121215	+ PULLEY, 3,4-53			1											
2A	5144510	* PULLEY, 2-53				1										
2A	5125113	% PULLEY, 6V53					1									
		+ NOT SERVICED, FOR SERVICE USE 8920869 AND SD-270.														
		% NOT SERVICED, FOR SERVICE USE 8920869 AND SD-273.														
		# NOT SERVICED, FOR SERVICE USE 5144503 AND SD-166.														
		* NOT SERVICED, FOR SERVICE USE 8920869 AND SD-268.														

5.1000 FRESH WATER PUMP

PART FIG . . . NUMBER NAME AND DESCRIPTION			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
5.1001 - PUMP ASSY., FRESH WATER																
1B	5109551	# PUMP ASSY., 6V53 (L.H. ROTATION) (A ENG.)	1													
1B	5133667	# PUMP ASSY., 6V53 (L.H. ROTATION) (A ENG.)		1												
1B	5198194	# PUMP ASSY., 8V53 (L.H. ROTATION)			1											
1B	5134191	# PUMP ASSY., 8V53 (R.H. ROTATION)				1										
1B	5135464	# PUMP ASSY., 6V53 (L.H. ROTATION)					1									
1A	5136506	# PUMP ASSY., 6V53 (L.H. ROTATION) (ALUM.)						1								
1A,B	5141747	# PUMP ASSY., 3-53 (L.H. ROTATION)							1							
1A	5142051	# PUMP ASSY., 4,6V53 (R.H. ROTATION)								1						
1B	5121477	# PUMP ASSY., 2,3,4-53 (L.H. ROTATION)									1					
	5144717	PUMP ASSY., 3-53 (R.H. ROTATION)										1				
		# NOT SERVICED, SHOWN FOR COMPONENT REFERENCE ONLY.														
5.1030 - BODY, FRESH WATER PUMP																
2A	5109552	# BODY, 6V53 (L.H. ROTATION) (A ENG.)	1													
2A	5133668	# BODY, 6V53 (L.H. ROTATION)		1												
2A	5132498	# BODY, 8V53 (L.H. ROTATION)			1											
2A	5134190	# BODY, 8V53 (R.H. ROTATION)				1										
2A	5135465	# BODY, 6V53 (L.H. ROTATION)					1									
2A	5136826	# BODY, 6V53 (L.H. ROTATION) (ALUM.) (INCLUDES 5136783 TUBE)						1								
2A	5142048	# BODY, 3-53 (L.H. ROTATION)							1							
2A	5142050	# BODY, 4,6V53 (R.H. ROTATION)								1						
2A	5121474	# BODY, 2,3,4-53 (L.H. ROTATION) (A ENG.)									1					
2A	5144687	BODY, 3-53 (R.H. ROTATION)										1				
2A	5119477	NIPPLE, 7/8" O.D. X 5/8" L.						1		1						
2A	5121479	NIPPLE, 1 1/8" O.D. X 3 3/16" L.	1	1	1	1			1		1	1				
	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1				
	5115214	PLUG, 1/2" PIPE (12.9550)	1	1		1										
	5119218	PLUG, 7/8" CUP (5.1030)			1		1		1		1					
	5197146	PLUG, 1 1/8" CUP			1											
		# NOT SERVICED, REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP.														
5.1031 - COVER, FRESH WATER PUMP																
2A	5119283	COVER, 2,3,4,6,8V53	1	1	1	1	1	1	1	1	1	1				
	5148436	BOLT, 5/16"-18 X 3/4" (W/LW) (12.9001)	7	7	7	7		7	7	7	7					
	5104293	BOLT, 5/16"-18X3/4" (W/LW) (UNCOATED THD.) (12.9001)					7					7				

5.1000 FRESH WATER PUMP

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		5.1032 - GASKET, FRESH WATER PUMP BODY COVER														
2A	5119282	GASKET, 2,3,4,6,8V53	1	1	1	1	1	1	1	1	1	1				
		5.1050 - SHAFT, FRESH WATER PUMP														
2A	904827	SHAFT ASSY., 2,3,4,6,8V53 (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1				
		5.1110 - IMPELLER, FRESH WATER PUMP														
2A	5146563	IMPELLER, 2,3,4,6V53 (L.H. ROTATION) (WITH CERAMIC INSERT)	1				1	1	1		1					
	5113800	IMPELLER, 6,8V53 (L.H. ROTATION) (WITH CERAMIC INSERT)		1	1											
2A	5146562	IMPELLER, 4,6,8V53 (R.H. ROTATION) (WITH CERAMIC INSERT)				1				1						
2A	5146354	IMPELLER, 3-53 (R.H. ROTATION) (WITH CERAMIC INSERT)										1				
		5.1130 - SEAL, FRESH WATER PUMP														
2A	5130959	SEAL, 2,3,4,6,8V53	1	1	1	1	1	1	1	1	1	1				
		5.1214 - PULLEY, FRESH WATER PUMP														
2A	5119465	* PULLEY, 2,3,4,6,8V53 (SD-166)	1	1	1	1			1	1	1					
2A	5109687	PULLEY, 6V53					1	1								
2A	5144503	PULLEY, 3-53										1				
		* NOT SERVICED, FOR SERVICE USE 5144503 AND SD-166.														

5.1000 FRESH WATER PUMP

PART FIG . . . NUMBER NAME AND DESCRIPTION			COLUMN												
			A	B	C	D	E	F	G	H	I	J	K	L	M
5.1001 - PUMP ASSY., FRESH WATER															
	5136883	# PUMP ASSY., 6V53 (R.H. ROTATION) (ALUM.)	1												
	5144885	PUMP ASSY., 6V53 (L.H. ROTATION)		1											
	5144886	PUMP ASSY., 2,3,4-53 (R.H. ROTATION)			1										
	5141891	PUMP ASSY., 8V53 (L.H. ROTATION)				1									
	5144500	+ PUMP ASSY., 3-53 (L.H. ROTATION) (ALUM.) (5104392)					1								
	5148442	PUMP ASSY., 3,4-53 (R.H. ROTATION)						1							
	5104392	PUMP ASSY., 3-53 (L.H. ROTATION)							1						
		# NOT SERVICED: REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP.													
		+ NOT SERVICED, USE PART NUMBER IN PARENTHESES.													
5.1030 - BODY, FRESH WATER PUMP															
2A	5136905	# BODY, 6V53	1												
2A	5144688	BODY, 6V53		1											
2A	5144689	BODY, 2,3,4-53			1			1							
2A	5144501	+ BODY, 3-53					1								
2A	5141922	BODY ASSY., 8V53 (INCLUDES STUDS)				1									
	5104391	BODY							1						
	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1							
	5119218	PLUG, 7/8" CUP (12.9550)				1									
	103174	STUD, 5/16"-18X24X1 3/8" (12.9117)				6									
		# NOT SERVICED: REFER TO CONVERSION CHART AT BEGINNING OF SECTION FOR REPLACEMENT PUMP AND ITEMS THAT MAY BE REQUIRED TO CONVERT TO NEW PUMP.													
		+ NOT SERVICED, USE 5104391.													
5.1031 - COVER, FRESH WATER PUMP															
2A	5136885	COVER, 6V53	1						1						
2A	5119283	COVER, 2,3,4,6V53		1	1		1	1							
	179816	BOLT, 5/16"-18X3/4" (12.9001)	7												
	5148436	BOLT, 5/16"-18 X 3/4" (W/LW) (12.9001)					7								
	5104293	BOLT, 5/16"-18 X 3/4" (W/LW) (UNCOATED THD.)		7	7			7	7						
5.1032 - GASKET, FRESH WATER PUMP BODY COVER															
2A	5119282	GASKET, 2,3,4,6,8V53	1	1	1	1	1	1	1						
5.1050 - SHAFT, FRESH WATER PUMP															
2A	904827	SHAFT ASSY., 2,3,4,6V53 (INCLUDES BEARING)	1	1	1		1		1						
2A	908142	SHAFT ASSY., 3,4-53 (INCLUDES BEARING)						1							

5.1000 FRESH WATER PUMP

		COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		5.1050 - SHAFT ASSY., FRESH WATER PUMP (CONT'D)													
	5140933	SHAFT, 8V53				1									
		5.1070 - BEARING, FRESH WATER PUMP													
	954501	BEARING, INNER 8V53				1									
	954212	BEARING, OUTER 8V53				1									
	5182145	SPACER, BEARING 8V53 (5.1060)				1									
	274746	RING, BEARING RETAINING				1									
	5178768	WASHER, BEARING RETAINING (5.6140)				1									
		5.1110 - IMPELLER, FRESH WATER PUMP													
2A	5146562	IMPELLER, 6V53 (WITH CERAMIC INSERT)	1												
2A	5146563	IMPELLER, 8V53 (WITH CERAMIC INSERT)				1									
2A	5146354	IMPELLER, 2,3,4-53 (WITH CERAMIC INSERT)			1			1							
2A	5113800	IMPELLER, 3,6V53 (WITH CERAMIC INSERT)		1			1		1						
	5140935	IMPELLER, 8V53 (WITH CERAMIC INSERT)				1									
		5.1130 - SEAL, FRESH WATER PUMP													
2A	5130959	SEAL, 2,3,4,6,8V53	1	1	1	1	1	1	1						
		5.1214 - PULLEY, FRESH WATER PUMP													
2A	5136884	+ PULLEY, 6V53	1												
2A	5144503	PULLEY, 2,3,4,6V53		1	1		1	1	1						
	5134448	PULLEY, 8V53				1									
	5152707	KEY, 1/8"X5/8"				1									
	5109886	SPACER, PULLEY (12.6682)				1									
	181396	BOLT, 7/16"-20X1 1/8" (12.9001)				1									
		+ OBSOLETE.													

5.2000A WATER OUTLET MANIFOLD AND/OR ELBOW

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	6 7	6 9	7 0	7 2	8 0	8 5	8 6	8 7	9 1	9 3	9 5	9 8
5.2035 - ELBOW, WATER OUTLET														
	5100033	ELBOW, 3,4-53 (DOUBLE OUTLETS)									1			
3A	5128492	ELBOW, 6,8V53 (30 DEG. OFFSET TO LEFT) (L. BANK)							1					
1B,3A	5128493	ELBOW, 6,8V53 (30 DEG. OFFSET TO RIGHT) (R. BANK)							1					
	5116081	ELBOW, 90 DEG. 2,3,4,6,8V53			1					1				
1A	5125649	ELBOW, 90 DEG. 2,3,4-53 (OFFSET)					1							
1A	5125451	ELBOW, 90 DEG. 2,3,4-53					1			1				
1A	5131321	ELBOW, 90 DEG. 2-53												1
1A,3B	5121228	+ FLANGE, 2-53 (1 3/4" L)		1										
1A,3B	5119120	FLANGE, 2,3,4-53 (1 3/4" L)				1								
1A,3B	5130033	FLANGE, 4-53 (1 3/4" L)										1	1	
	5116409	FLANGE, 2,3,4,6,8V53 (2 1/2" L)	1											
	5115214	PLUG, 1/4" PIPE (12.9550)									1			
	179839	BOLT, 3/8"-16X1" (12.9001)				2	2						2	
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)	2	2	2			2		4		2		2
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)							4					
	179851	BOLT, 3/8"-16X3" (12.9001)									2			
	103321	LOCKWASHER, 3/8" (12.9200)	2	2	2	2	2	2	4	4	2	2	2	2
		+ OBSOLETE.												
5.2037 - GASKET, WATER OUTLET ELBOW														
3A	5122437	GASKET, 4,6,8V53							2	2				
3B	5121257	GASKET, 2-53		1										
	5116092	GASKET, 2,3,4,6,8V53	1		1	1	1	1				1	1	1
3B	5108214	GASKET, 3,4-53									1			

5.2000A WATER OUTLET MANIFOLD AND/OR ELBOW

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	9 8	9 9	1 0 0	1 0 1	1 0 2	1 0 5	1 0 6	1 0 8	1 1 0	1 4 5	1 7 7
5.2035 - ELBOW, WATER OUTLET													
1B,3A	5128493	ELBOW, 6,8V53 (30 DEG. OFFSET TO RIGHT) (R. BANK)				1							
	5137631	% ELBOW, 3-53 (30 DEG. OFFSET TO RIGHT) (ALUM.)								1			
3A	5139868	ELBOW, 3-53 (30 DEG. OFFSET) (ALUM.)			1								
1B,3A	5137780	ELBOW, 6V53 (52 DEG. OFFSET TO LEFT)				1							
1B,3A	5109649	ELBOW, 90 DEG. 6V53 (OFFSET) (R. BANK)	1										
1A	5134777	ELBOW, 90 DEG. 2,3,4-53					1	1					
1B,3A	5135486	ELBOW, 90 DEG. 4,8V53 (OFFSET TO LEFT)							1			1	
1B,3A	5135486	ELBOW, 90 DEG. 8V53 (OFFSET TO RIGHT)							1				
	5128492	ELBOW, 6V53 (30 DEG. OFFSET TO LEFT) (L. BANK)											1
3B	5188382	FLANGE, 3-53 (1 3/4" L) (5.3350)		1									
1A,3B	5135488	+ FLANGE, 3-53 (2 1/2" L)									1		
	5104286	SPACER, 6V53 (R. BANK)											1
	114981	DRAINCOCK, 1/8" (12.9510)								1			
	5115214	PLUG, 1/2" PIPE (12.9550)	1										
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			1		1	1		2	2		
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)		2		2			4			2	
	186622	BOLT, 3/8"-16 X 1 1/4" (12.9001)											2
	179846	BOLT, 3/8"-16 X 1 3/4" (12.9001)	2										
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)					1	1					2
	186277	BOLT, 3/8"-16 X 2 3/8" (12.9001)											
	455537	BOLT, 3/8"-16X4" (12.9001)				2	2						
	114926	BOLT, 3/8"-16X4 1/4" (12.9001)				2	2						
	103321	LOCKWASHER, 3/8" (12.9200)	2	2	2	4	2	2	4	2	2	2	4
	103341	WASHER, 3/8" (12.9190)	2		2								
		+ OBSOLETE.											
		% NOT SERVICED; FOR SERVICE REQUIREMENTS REWORK 5128493.											
5.2037 - GASKET, WATER OUTLET ELBOW													
3A	5122437	GASKET, 4,6,8V53				2			2		1	1	3
	5116092	GASKET, 2,3,4,6,8V53			1		1			1			
3A	5116242	GASKET, 6V53	1										
3B	2206783	GASKET, 3-53 (5.3360)		1									

5.2000B THERMOSTAT

PART			TYPES													
..FIG ..	NUMBER	NAME AND DESCRIPTION	7 2	7 3	8 6	8 8	9 1	1 0 5	1 2 3	1 2 4	1 2 6	1 3 3	1 3 6	1 5 3		
5.2060 - THERMOSTAT ASSY.																
6A,B	3041379	THERMOSTAT ASSY., 2,3,4,6V53 (170 DEG. OPENING TEMP.)	1	1			1					1				
6A,B	5143210	THERMOSTAT ASSY., 3,4,6,8V53 (170 DEG. OPENING TEMP.)				2		1	1							
3A,6A	3038144	THERMOSTAT ASSY., 3-53 (170 DEG. OPENING TEMP.)											1			
6A,B	5124872	THERMOSTAT ASSY., 6,8V53 (170 DEG. OPENING TEMP. W/BLEED HOLE)			2											
3A,6B	5106240	THERMOSTAT ASSY., 6,8V53 (160 DEG. OPENING TEMP.)								1	1			1		
5.2060 - SEAL, THERMOSTAT																
6A,B	5134269	SEAL, 3,4,6,8V53			2	2		1			1			1		
	5132155	SEAL, 6,8V53							1							
5.2090 - HOUSING, THERMOSTAT																
1A,3B	5108088	HOUSING ASSY., 2, 3, 4-53 (INCLUDES PLUGS IN 5.2090)	1									1				
3B	5121631	HOUSING, 2-53		1												
1B,3A	5128340	HOUSING, 6,8V53 (RIGHT BANK)			1											
1B,3A	5135913	HOUSING, 6V53 (LEFT BANK)			1											
6A,B	5108952	HOUSING, 3,4,6,8V53				2		1	1							
1A,6A	5128570	+ HOUSING, 4-53					1									
1B,6B	5109630	HOUSING, 6,8V53 (L. BANK)								1	1			1		
3A	5133552	HOUSING, 3-53 (ALUM.)											1			
	5124775	BASE, 6,8V53			2											
6B	5127997	ADAPTOR, 3, 4, 6, 8V53 (5.3460)				2		1	1							
	103647	DRAINCOCK, 1/4" (12.9510)				2		1	1							
	5145009	PLUG, 1/8" PIPE (12.9550)				AR		AR	AR							
	5125237	PLUG, 1/4" PIPE (12.9550)				2	1	1	1							
	5145014	PLUG, 3/8" PIPE (12.9550)	2		3					2	2	2	2			
	5136241	PLUG (.580" DIA.) (PLASTIC) (2.2001)												1		
	5115214	PLUG, 1/2" PIPE (12.9550)	2		5	6		3	3	2	2	2	2	1		
	5138827	PLUG, .720" DIA. (PLASTIC) (2.2001)												2		
	179839	BOLT, 3/8"-16X1" (12.9001)				6		3	3							
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)		2	4											
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)				10		5	5							
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)								2	2			2		
	108608	BOLT, 3/8"-16X2 1/8" (12.9001)	2				2					2				
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)			2											
	9409914	BOLT, 3/8"-16X4 1/4" SELF LOCK (12.9001)											2			
	450517	BOLT, 3/8"-16X4 3/4" (12.9001)			2											
	103341	WASHER, 3/8" (12.9190)								2	2	AR		2		
	103321	LOCKWASHER, 3/8" (12.9200)	AR	2	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		

5.2000B THERMOSTAT

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 2	7 3	8 6	8 8	9 1	1 0 5	1 2 3	1 2 4	1 2 6	1 3 3	1 3 6	1 5 3
		5.2090 - HOUSING, THERMOSTAT (CONT'D)												
		+ NOT SERVICED, USE 5108088, 5126473, 5119426, 2-5145014, 2-186625, 2-103320, SD-221.												
		5.2092 - ELBOW, THERMOSTAT HOUSING OUTLET												
	5109549	ELBOW, 6,8V53								1	1			
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)								2	2			
	103341	WASHER, 3/8" (12.9190)								2	2			
	103321	LOCKWASHER, 3/8" (12.9200)								2	2			
	5115214	PLUG, 1/2" PIPE (12.9550)								1	1			
		5.2093 - SEAL, THERMOSTAT HOUSING OUTLET ELBOW												
	5117786	GASKET, 6V53												2
	5116242	GASKET, 4,6,8V53								1	1			
		5.2110 - GASKET, THERMOSTAT HOUSING												
3A,8,6A	5116242	GASKET, 2,3,4,6,8V53 (TO CYLINDER HEAD) (1.2044)	1	1	2		1			1	1	1	1	1
3A	5124997	GASKET, 6,8V53 (TO BASE)			2									
6B	5128002	GASKET, 3,4,6,8V53 (HOUSING TO ADAPTOR)				2		1	1					
6B	5119208	GASKET, 3,4,6,8V53 (ADAPTOR TO EXHAUST FLANGE) (6.1150)				2		1	1					
		5.2120 - COVER, THERMOSTAT HOUSING												
3A,5A	5125868	COVER, 6,8V53 (1/8" PIPE TAP)			1									
3A,5A	5135466	COVER, 6V53								1				
3A,5A	5135713	COVER, 6V53									1			1
	5119426	FLANGE, 2,3,4,6V53	1											
	5134343	FLANGE, 3-53										1		
	114981	DRAINCOCK, 1/8" (12.9510)			1					1	1			1
	5145014	PLUG, 3/8" PIPE (12.9550)									1			1
	186618	BOLT, 5/16"-18X5/8" (12.9001)	2		2									
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)										2		
	191249	BOLT, 3/8"-16X3/4" (12.9001)								4	4			4
	103341	WASHER, 3/8" (12.9190)								AR	AR			AR
	103320	LOCKWASHER, 5/16" (12.9200)	AR		AR							AR		
	103321	LOCKWASHER, 3/8" (12.9200)								AR	AR			AR

5.2000B THERMOSTAT

PART		TYPES												
..FIG ..	NUMBER	NAME AND DESCRIPTION	7 2	7 3	8 6	8 8	9 1	1 0 5	1 2 3	1 2 4	1 2 6	1 3 3	1 3 6	1 5 3
	5.2122	ELBOW, THERMOSTAT HOUSING COVER OUTLET												
	5109680	TUBE, 6V53 (CROSSOVER)								1	1			
	5.2124	HOSE, THERMOSTAT HOUSING COVER OUTLET ELBOW												
	5199778	# HOSE, 2" X 2" L. 6, 8V53 (3.1270)								2	2			
	5112425	# HOSE, 1 1/8" X 1.88" L. 6, 8V53 (4.8175)								1	1			
	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE (12.9660)								4	4			
	5186840	CLAMP, 1" DIA. HOSE (12.9660)								2	2			
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												
	5.2130	GASKET, THERMOSTAT HOUSING COVER												
3A,B	5128139	GASKET, 2,3,4,6V53	1									1		
3A	5125024	GASKET, 6,8V53			1									
3A	5133450	GASKET, 6,8V53							1	1				
	5.2135	TUBE, THERMOSTAT HOUSING VENT												
	5129867	# HOSE, #4 X 8" L. 3, 4-53 (7.4075)						1						
	118748	CONNECTOR, 1/4" FL. TUBE 1/8" P.T. (12.9380)						1						
	444052	ELBOW, 1/8"-45 DEG. STREET (BRASS) (12.9590)						1						
	5111277	FITTING (1/4" I.D. HOSE X 7/16"-20 FL. TUBE) (8.1017)						1						
	5113629	FITTING (1/4" I.D. HOSE X 1/8" P.T. (3.1002)						1						
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												

5.2000B THERMOSTAT

PART			TYPES														
FIG	NUMBER	NAME AND DESCRIPTION	1 5 4	1 5 7	1 5 9	1 6 2	1 6 6	1 6 7	1 7 2	1 9 1	2 7 1	2 7 4	2 7 5	2 8 9	2 9 0	2 9 7	
5.2050 - THERMOSTAT ASSY.																	
3A,6B	NPN 5106240	THERMOSTAT (CUSTOMER FURNISHED) THERMOSTAT ASSY., 6,8V53 (165 DEG. OPENING TEMP.)		1													
6A,B	5143210	THERMOSTAT ASSY., 3,4,6,8V53 (170 DEG. OPENING TEMP.)	1			1				2							
	5124872	THERMOSTAT ASSY., 6V53 (170 DEG. OPENING TEMP.)			2		1								2		
3B,6A	3037757	THERMOSTAT ASSY., 4-53 (180 DEG. OPENING TEMP.)						1	1			1	1				
	5102978	THERMOSTAT ASSY., 6V53 (180 DEG. OPENING TEMP.)									2						
	8921348	THERMOSTAT ASSY., 6V53 (170 DEG. OPENING TEMP.)														2	
5.2060 - SEAL, THERMOSTAT																	
6A,B	5134269	SEAL, 3,4,6,8V53			2		1				2			2	2	2	
	5132155	SEAL, 6,8V53	1			1				2							
5.2090 - HOUSING, THERMOSTAT																	
6A,B	5108952	HOUSING, 3,4,6,8V53					1										
1B,6B	5109630	HOUSING, 6,8V53 (L. BANK)	1			1											
	5128340	HOUSING, 6V53									1			1		1	
1A,6A	5137368	+ HOUSING, 3-53		1													
1B,6B	5141637	HOUSING, 8V53 (ALUM.)								1							
1B,6B	5135638	HOUSING, 6V53 (L. BANK)			1												
	5135913	HOUSING, 6V53									1			1	2	1	
1B,6B	5135949	HOUSING, 6V53 (R. BANK)			1												
1B,6B	5140174	HOUSING, 4-53						1			1						
	5103205	HOUSING, 3-53							1								
	5108088	HOUSING, 3, 4, 6V53											1				
	5124775	BASE, 6,8V53			2						2			2	2	2	
	5127997	ADAPTOR, 3,4,6,8V53					1										
	103647	DRAINCOCK, 1/4" (12.9510)					1										
	118753	ELBOW, 1/4"X1/8" P.T. 90 DEG. (12.9480)					1										
	118754	ELBOW, 5/16"-90 DEG. FLARED TUBE (12.9380)															
	5113322	CONNECTOR, 1/4" HOSE 1/2"-20 (2.5215)												1			
	119932	BUSHING, 3/8" X 1/8" RED (12.9570)												1			
	120401	ELBOW, 1/4"-90 DEG. STREET (12.9480)												1			
	5100105	NIPPLE, 7/8" X 3.60"					1					1					
	5153473	CLIP, 1/2" (4.6040)												1			
	5145009	PLUG, 1/8" PIPE (12.9550)					AR										
	5121182	PLUG, 1/4" PIPE (2.4015)					2	1	1								
	5136241	PLUG (.580" DIA.) (PLASTIC) (2.2001)	1														
	5136240	PLUG (.42" DIA.) (2.2001)											1				
	5145014	PLUG, 3/8" PIPE (12.9550)				3		1	1	1	3	1	2	2	4	3	
	5173333	PLUG, 3/8" PIPE (12.9550)		2													
	5115214	PLUG, 1/2" PIPE (12.9550)			5	2	3	3	3	2	5	3	2	5	4	5	
	5138827	PLUG (.720" DIA.) (PLASTIC) (2.2001)	2														
	5173334	PLUG, 1/2" PIPE (12.9550)		2													
	179839	BOLT, 3/8"-16X1" (12.9001)					3										
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)						2									
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			4						4			4	4	4	
	186622	BOLT, 3/8"-16 X 1 1/4" (12.9001)							2			2					
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)					1			1							
	5157244	BOLT, 3/8"-16 X 1 3/4" (4.4190)								2							

5.2000B THERMOSTAT

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION													
		1 5 4	1 5 7	1 5 9	1 6 2	1 6 6	1 6 7	1 7 2	1 9 1	2 7 1	2 7 4	2 7 5	2 8 9	2 9 0	2 9 7
5.2090 - HOUSING, THERMOSTAT (CONT'D)															
179846	BOLT, 3/8"-16X1 7/8" (12.9001)	2			2										
108608	BOLT, 3/8"-16X2 1/8" (12.9001)		2									2			
191249	BOLT, 3/8"-16X3 3/4" (12.9001)			2						2			2		2
450517	BOLT, 3/8"-16X4 3/4" (12.9001)			2						2			2	4	2
138243	SCREW, 3/8"-16X1 7/8" (12.9027)					4									
103341	WASHER, 3/8" (12.9190)	2			2				2						
103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR
+ OBSOLETE.															
5.2092 - ELBOW, THERMOSTAT HOUSING OUTLET															
5109549	ELBOW, 6,8V53	1			1				1						
179846	BOLT, 3/8"-16X1 7/8" (12.9001)	2			2				2						
103341	WASHER, 3/8" (12.9190)	2			2				2						
103321	LOCKWASHER, 3/8" (12.9200)	2			2				2						
5115214	PLUG, 1/2" PIPE (12.9550)	1			1				1						
5.2093 - SEAL, THERMOSTAT HOUSING OUTLET ELBOW															
5116242	GASKET, 4,6,8V53 (1.2044)	1			1		1		1		1				
5.2110 - GASKET, THERMOSTAT HOUSING															
3A,B	5116242														
	GASKET, 2,3,4,6,8V53 (TO CYLINDER HEAD) (1.2044)	1	1	2	3			1	1	2		1	2	2	2
3A	5124997			2						2			2	2	2
3A,B	5128002					1									
	GASKET, 3,4,6,8V53 (HOUSING TO ADAPTOR)														
3A,B	5119208					1									
	GASKET, 3,4,6,8V53 (ADAPTOR TO EXHAUST FLANGE) (6.1150)														
3A	5190023					1			1						
	GASKET, 8V53														
5.2120 - COVER, THERMOSTAT HOUSING															
3A,5A	5125868			1						1			1	1	1
3A,5A	5135466	1			1										
3A,5A	5141638								1						
	5119426		1									1			
	FLANGE, 2,3,4,6V53														
	114981	1		1	1					1			1	1	1
	186618		2	2						2		2	2	2	2
	191249	4			4										
	186288								6						
	103341	AR			AR				AR						
	103320		AR	AR						2		2	2	2	2
	103321	AR			AR				AR						
	LOCKWASHER, 5/16" (12.9200)														
	LOCKWASHER, 3/8" (12.9200)														
5.2122 - ELBOW, THERMOSTAT HOUSING COVER OUTLET															
5139715	TUBE, 8V53 (CROSSOVER) (5.2160)				1				1						
5109680	TUBE, 6V53 (CROSSOVER) (5.2160)	1													

5.2000B THERMOSTAT

PART			TYPES													
..FIG ..	NUMBER	NAME AND DESCRIPTION	1 5 4	1 5 7	1 5 9	1 6 2	1 6 6	1 6 7	1 7 2	1 9 1	2 7 1	2 7 4	2 7 5	2 8 9	2 9 0	2 9 7
		5.2124 - HOSE, THERMOSTAT HOUSING COVER OUTLET ELBOW														
	5199778	# HOSE, 2" X 2" L. (3.1270)	2			2				2						
	5112425	# HOSE, 1 1/8" X 1.88" L. 6, 8V53 (4.8175)	1			1										
	8920537	CLAMP, 1 7/16"-2 1/2" DIA. HOSE (12.9660)	4			4				4						
	5186840	CLAMP, 1" DIA. HOSE (12.9660)	2			2										
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.														
		5.2130 - GASKET, THERMOSTAT HOUSING COVER														
3A,B	5128139	GASKET, 2,3,4,8V53		1									1			
3A	5125024	GASKET, 6,8V53			1						1			1	1	1
3A	5133450	GASKET, 6,8V53	1			1										
3A	5175989	GASKET, 8V53								1						
		5.2135 - TUBE, THERMOSTAT HOUSING VENT														
	5129867	# HOSE, 1/4" X 9 1/2" L. 4-53 (7.4075)					1									
	5129867	# HOSE, 1/4" X 10 1/2" 6V-53 (7.4075)												1		
	5111277	FITTING, 1/4 I.D. HOSE X 7/16 -20 FL. TUBE (8.1017)					1									
	5189292	FITTING, 1/4" I.D. HOSE X 1/4"-18 FL. TUBE (5.7100)													1	
	5113629	FITTING, 1/4 I.D. HOSE X 1/8 P.T. (3.1002)					1									
		# STANDARD LENGTH HOSE, CUT TO LENGTH SHOWN.														

5.2000B THERMOSTAT

PART		NAME AND DESCRIPTION	TYPES									
FIG	NUMBER		3	0	1							
		5.2050 - THERMOSTAT ASSY.										
3A,6B	5106240	THERMOSTAT ASSY., 6V53 (165 DEG. OPENING TEMP.)	1									
		5.2060 - SEAL, THERMOSTAT										
	5132155	SEAL, 6,8V53	1									
		5.2090 - HOUSING, THERMOSTAT										
1B,6B	5109630	HOUSING, 6,8V53 (L. BANK)	1									
	5115214	PLUG, 1/2" PIPE (12.9660)	1									
	5136241	PLUG CAP, .58" (PLASTIC) (2.2001)	1									
	5138827	PLUG CAP, .72" (PLASTIC) (2.2001)	2									
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)	2									
	103341	WASHER, 3/8" (12.9190)	2									
	103341	WASHER, 3/8" (12.9190)	2									
	103321	LOCKWASHER, 3/8" (12.9200)	2									
		5.2092 - ELBOW, THERMOSTAT HOUSING OUTLET										
	5109549	ELBOW, 6,8V53	1									
	5115214	PLUG, 1/2" PIPE (12.9550)	1									
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)	2									
	103341	WASHER, 3/8" (12.9190)	2									
	103321	LOCKWASHER, 3/8" (12.9190)	2									
		5.2093 - SEAL, THERMOSTAT HOUSING OUTLET ELBOW										
	5116242	GASKET, 4,6,8V53 (1.2044)	1									
		5.2110 - GASKET, THERMOSTAT HOUSING										
3A,B	5116242	GASKET, 2,3,4,6,8V53 (TO CYLINDER HEAD) (1.2044)	1									
		5.2120 - COVER, THERMOSTAT HOUSING										
3A,5A	5135713	COVER, 6V53	1									
	5145014	PLUG, 3/8"-18 PIPE (12.9550)	1									
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)	4									
	114981	DRAINCOCK, 1/8" (12.9510)	1									
	103341	WASHER, 3/8" (12.9190)	4									
	103321	LOCKWASHER, 3/8" (12.9200)	4									
		5.2122 - ELBOW, THERMOSTAT HOUSING COVER OUTLET										
	5109680	TUBE, 6V53 (CROSSOVER) (5.2160)	1									

5.2000B THERMOSTAT

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	3	0	1							
			1									
		5.2124 - HOSE, THERMOSTAT HOUSING COVER OUTLET ELBOW										
8921827	#	HOSE, 2"X2" L (5.3330)	2									
5104839		HOSE, 1 1/8"X1.88" (5.2165)	1									
8920537		CLAMP, 1 7/16"-2 1/2" DIA. HOSE (12.9660)	4									
5186840		CLAMP, 1" DIA. HOSE (12.9660)	2									
	#	STD. LENGTH HOSE, CUT TO LENGTH SHOWN.										
		5.2130 - GASKET, THERMOSTAT HOUSING COVER										
5117786		GASKET, 6V53	1									

5.2000C WATER BY-PASS TUBE

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 3 0	1 3 3	1 3 8	1 3 9	1 4 6	1 4 7	1 5 0	1 6 3	1 6 4	1 6 6	1 6 7	1 6 8
5.2160 - TUBE, WATER BY-PASS														
1A	5119479	TUBE, 2.3,4-53	1											
1A	5123532	TUBE, 2-53		1										
1A	5121420	TUBE, 2.3,4-53			1									
3A	5122563	TUBE, 3,4-53				1								
1A	5124774	TUBE, 2-53					1							
1A	5123163	TUBE, 3,4-53						1						
1A	5125168	TUBE, 2-53							1					
	5127993	@ TUBE, 6V53 (CROSSOVER)								1				
	5146053	TUBE, 6V53 (CROSSOVER)									1			
1B	5124882	TUBE, 6V53 (TO PUMP)									1			
1A	5109049	TUBE, 4-53										1		
1A	5128699	+ TUBE, 4-53											1	
1A	5128698	+ TUBE, 4-53												1
	128003	BUSHING, 1"X3/4" RED. (12.9570)										1	1	1
	5181801	ELBOW, 3, 4-53 (3/4" PIPE X 1" HOSE) (5.2161)				1						2	1	1
	5122564	ELBOW, 3,4-53 (1" HOSE) (5.2095)				1		1						
	5128262	ELBOW, 4, 6V53 (1" PIPE X 1 1/4" HOSE)								2				
	5127969	+ TEE (THERMOSTAT HSG. TO PUMP)								2				
1A	5119425	FLANGE, 2.3,4-53 (4.1510)	1		1	1	1	1						
1B	5125867	FLANGE, 6V53									3			
	5124946	FLANGE, 3,4-53				1						1		
	5184301	SEAL RING, 2.3,4-53 (4.4060)	1		1	1	1	1						
	5125150	SEAL RING, 6V53									3			
	186625	BOLT, 5/16"-18X7/8" (12.9001)	2		2	4	2	2			6	2		
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)							2					
	103320	LOCKWASHER, 5/16" (12.9200)	AR		AR	AR	AR	AR	AR		AR	AR		
* FIG. 1J OF 1.0000.														
@ NOT SERVICED; CONVERT TO TYPE 183 WATER BY-PASS TUBE AND TYPE 195 OR 198 WATER CONNECTIONS.														
+ OBSOLETE.														
5.2165 - HOSE, WATER BY-PASS TUBE														
1A	5169721	# HOSE, 7/8" I.D. X 1.74" L 2, 3, 4-53 (4.8010)	1	2	1		1	1	1					
1A	5118149	# HOSE, 1" I.D. X 2.50" L (4.1642)				2		1				2	1	1
1A	5118149	# HOSE, 1" I.D. X 2" L 4-53 (4.1642)											1	1
1B	5112425	# HOSE, 1 1/8" I.D. X 1.88" L 6V53 (4.8175)												
6A	5120022	# HOSE, 1 1/4" I.D. X 2.26" L 4, 6V53 (4.8010)									1			
1A,B	5186840	CLAMP, 1" DIA. HOSE (12.9660)				4		4	2		4		4	4
1B	2337379	CLAMP, 1 1/16" DIA. HOSE (12.9660)								8				
1A	111609	CLAMP, 1 3/16" DIA. HOSE (12.9660)	2		2		2							

5.2000C WATER BY-PASS TUBE

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 3 0	1 3 3	1 3 8	1 3 9	1 4 6	1 4 7	1 5 0	1 6 3	1 6 4	1 6 6	1 6 7	1 6 8
		5.2165 - HOSE, WATER BY-PASS TUBE (CONT'D)												
1A	272855	CLAMP, 1 1/4" DIA. HOSE (12.9680) # STD. LENGTH HOSE, CUT TO LENGTH SHOWN.		4										
		5.2170 - GASKET, WATER BY-PASS TUBE												
6A,B	5116357	GASKET, 3,4,6V53 (1.1070)				1							1	
6A	5128139	GASKET, 2-53							1					
		5.2190 - CLIP, WATER BY-PASS TUBE												
	5124227	CLIP, 13/32" DIA. (5.2165)		1										
	5177001	CLIP, 7/8" DIA. (8.3801)						1						
	179837	BOLT, 3/8"-16X3/4" (12.9001)						1						
	179838	BOLT, 3/8"-16X7/8" (12.9001)		1										
	103321	LOCKWASHER, 3/8" (12.9200)		1				1						

5.2000C WATER BY-PASS TUBE

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	171	174	177	181	182	183	185	186	187	200	201
5.2160 - TUBE, WATER BY-PASS													
*	5146053	TUBE, 6V53 (CROSSOVER)							1				
1A	5109049	TUBE, 4-53								1			
1A	5129016	+ TUBE, 2-53	1										
1A	5100125	+ TUBE, 2-53		1									
1A	5108213	+ TUBE, 3,4-53			1								
1A	5119478	+ TUBE, 2,3,4-53				1							
1A	5108944	TUBE, 3,4-53					1						
1B	5109559	+ TUBE, 6V53							1				
1A	5108660	+ TUBE, 4-53									1		
1A	5135502	TUBE, 2,3,4-53 (UPPER)										1	
1A	5109412	+ TUBE, 6V53 (CROSSOVER)											1
1A	5108705	+ TUBE, 6V53 (TO PUMP)											1
	5128262	ELBOW, 4, 6V53 (1" PIPE X 1 1/4" HOSE)						2		2			
	5108833	ELBOW, 6V53 (1 1/8" PIPE X 1 1/8" HOSE)											1
1A	5119425	FLANGE, 2,3,4-53 (4.1510)	1	1		1	1				1	1	
1B	5125867	FLANGE, 6V53							3				3
1A	5108953	+ FLANGE, 4,6V53						1		1			
	5184301	SEAL RING, 2,3,4-53 (4.4060)	1	1		1	1				1	1	
	5125150	SEAL RING, 6V53							3				3
	179816	BOLT, 5/16"-18X3/4" (12.9001)									2		
	186625	BOLT, 5/16"-18X7/8" (12.9001)	2	2		2	2		6		2	2	8
	106327	BOLT, 5/16"-18X1 3/8" (12.9001)						2		2			
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR		AR	AR	AR	AR	AR	AR	AR	AR
	120376	NUT, 5/16"-18 (12.9120)											2
		* FIG. 1J OF 1.0000.											
		+ OBSOLETE.											
5.2165 - HOSE, WATER BY-PASS TUBE													
1A	5169721	# HOSE, 7/8" I.D. X 1.74" L. 2, 3, 4-53 (4.8010)	1	1	2	1	1				1	1	
1B	5112425	# HOSE, 1 1/8" I.D. X 1.88" L. 6V-53 (4.8175)							1				1
	5120022	# HOSE, 1 1/4" I.D. X 8 1/2" L. 6V53 (4.8010)						1					
	5120022	# HOSE, 1 1/4" I.D. X 11" L. 6V53 (4.8010)						1					
6A	5120022	# HOSE, 1 1/4" I.D. X 2.26" L. 4, 6V53 (4.8010)								2			
	5111832	NIPPLE, 1" PIPE X 1 1/4 HOSE						1					
1A,B	5186840	CLAMP, 1" DIA. HOSE (12.9660)							2				2
1A,B	2337379	CLAMP, 1 1/16" DIA. HOSE (12.9660)						4		4			
1A	111609	CLAMP, 1 3/16" DIA. HOSE (12.9660)	2	2	4	2	2				2	2	
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.											
5.2170 - GASKET, WATER BY-PASS TUBE													
6A,B	5116357	GASKET, 3,4,6V53 (1.1070)						1		1			
6B	5125024	GASKET, 6V53											1

DETROIT DIESEL

. TYPES

[illegible]

5155664	CLIP (4.1570)
5175705	SPACER, 13/32" I.D. X 1" L (3.1240)
186290	BOLT, 3/8"-16X6" (12.9001)

5.2000C WATER BY-PASS TUBE

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	206	207	212	216	222	236	239	240	241	243	244	247
5.2160 - TUBE, WATER BY-PASS														
1A	5132568	* TUBE, 3-53	1											
1A	5132569	* TUBE, 3-53		1										
1B	5109680	TUBE, 6V53 (CROSSOVER)			1									
	5132797	TUBE, 8V53 (CROSSOVER)				1								
1B	5124882	TUBE, 8V53 (TO PUMP)				1								
1B	5135358	* TUBE, 6,8V53 (LEFT BANK)					1							
1B	5135359	* TUBE, 6,8V53 (RIGHT BANK)					1							
1A	5136414	TUBE, 3,4-53						1						
1A	5130209	TUBE, 3,4-53 (LOWER)							1		1			
1A	5136499	TUBE, 2,3,4-53							1					
1A	5102906	TUBE, 4-53 (DEV. L. 12.18")								1				
1B	5146053	TUBE, 6,8V53 (TO THERMOSTAT HOUSING)											1	1
1B	5109559	* TUBE, 6,8V53										1		1
1A	5135502	TUBE, 4-53											1	
	128003	BUSHING, 1"X3/4" RED. (12.9570)	1	1										
	5181801	ELBOW, 3/4" PIPE X 1" HOSE (5.2161)	1	1										
1B	5125867	FLANGE, 6,8V53				3						3		3
1B	5119425	FLANGE, 2,3,4-53 (4.1510)						1	1		1		1	
	5125150	SEAL RING, 6,8V53				3						3		3
	5184301	SEAL RING, 2,3,4-53						1	1		1		1	
	186625	BOLT, 5/16"-18X7/8" (12.9001)				6		2	2		2	6	2	6
	106327	BOLT, 5/16"-18X1 3/8" (12.9001)												
	103320	LOCKWASHER, 5/16" (12.9200)					2							
		* OBSOLETE				AR	AR	AR	AR	AR	AR	AR	AR	AR
5.2165 - HOSE, WATER BY-PASS TUBE														
1A	5169721	# HOSE, 7/8" I.D. X 1.74" L. 2, 3, 4-53 (4.8010)						1	1	2	2			
5A	5118149	# HOSE, 1" I.D. X 2.50" L. 3-53 (4.1642)	1	1										
5A	5118149	# HOSE, 1" I.D. X 2" L. 3-53 (4.1642)	1	1										
5B	5112425	# HOSE, 1 1/8" I.D. X 1.88" L. 6, 8V53 (4.8175)				1	1					1		1
5A,B	5120022	# HOSE, 1 1/4" I.D. X 2.76" L. 4, 6, 8V53 (4.8010)												
1B	5199778	# HOSE, 2" I.D. X 2" L. 6V53 (3.1270)				2		4						
	5111832	NIPPLE, 1" PIPE X 1 1/4" HOSE						4						
1A,B	5186840	CLAMP, 1" DIA. HOSE (12.9660)	4	4	2	2						2		2
1A,B	2337379	CLAMP, 1 1/4" DIA. HOSE (12.9660)					8							
1A	111609	CLAMP, 1 3/16" DIA. HOSE (12.9660)						2	2	4	4			
1B	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE			4									
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.												

5.2000C WATER BY-PASS TUBE

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	252	253	258	261	262	268	269	288	292	294	295
5.2160 - TUBE, WATER BY-PASS													
1B	5124882	TUBE, 8V53 (TO PUMP)			1		1				1		
1A	5136414	TUBE, 3,4-53											
1A	5136499	TUBE, 2,3,4-53								1			
1B	5146053	TUBE, 6,8V53 (TO THERMOSTAT HOUSING)			1		1						
1A	5136784	TUBE, 3-53 (UPPER)	1										
1A	5119479	TUBE, 2-53		1									
1A	5138760	+ TUBE, 4-53				1	1						
1A	5140183	TUBE, 4-53						1					
1A	5130209	TUBE, 2-53 (LOWER)							1				
1A	5136596	TUBE, 2-53										1	
1A	5141971	TUBE, 8V53											1
1B	5125867	FLANGE, 6,8V53			3		3						
1B	5119425	FLANGE, 2,3,4-53 (4.1510)	1	1						1	1	1	
	5125150	SEAL RING, 6,8V53			3		3						
	5184301	SEAL RING, 2,3,4-53	1	1						1	1	1	
	5144702	CONNECTOR (5.2165)										1	
	5142549	PLUG, 3/4" PIPE (12.9550)										1	
	186625	BOLT, 5/16"-18X7/8" (12.9001)	2	2	6		6		2	2	2		
	454906	BOLT, 3/8"-16X1 1/2" (12.9001)											4
	103341	WASHER, 3/8" (12.9190)										4	
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR		AR		AR	AR	AR	AR	
	103321	LOCKWASHER, 3/8" (12.9200)											4
		+ OBSOLETE.											
5.2165 - HOSE, WATER BY-PASS TUBE													
1A	5169721	# HOSE, 7/8" I.D. X 1.74" L 2, 3-4-53 (4.8010)		2				2	2	1	1		
1A	5169721	# HOSE, 7/8" I.D. X 2 1/2" L 3-53 (4.8010)	1										
5B	5112425	# HOSE, 1 1/8" I.D. X 1.88" L 6, 8V53 (4.8175)			1		1						
5A,B	5120022	# HOSE, 1 1/4" I.D. X 2.76" L 4, 6, 8V53 (4.8010)				4	4						
	5111832	NIPPLE, 1" PIPE X 1 1/4" HOSE				4	4						
1A,B	5186840	CLAMP, 1" DIA. HOSE (12.9660)	2		2		2					2	
1A,B	2337379	CLAMP, 1 1/4" DIA. HOSE (12.9660)				8	8						
1A	111610	CLAMP, 1 1/4" DIA. HOSE (12.9660)		4				4	4	6			
		# STD. LENGTH, HOSE CUT TO LENGTH SHOWN.											
5.2170 - GASKET, WATER BY-PASS TUBE													
	5141972	GASKET, 8V53											1

5.2000C WATER BY-PASS TUBE

PART			TYPES															
FIG	NUMBER	NAME AND DESCRIPTION	3 0 0	3 1 8	3 1 9	3 2 0	3 2 1	3 2 5	3 3 4	3 3 8	3 4 0	3 4 2	3 4 3	3 4 4	3 4 5	3 4 6		
5.2160 - TUBE, WATER BY-PASS																		
3A	5133554	TUBE, 3-53	1															
1A	5108944	TUBE, 3-53		1														
6A	5122563	TUBE, 3-53			1													
6A	5109049	TUBE, 4-53				1												
1A	5125168	TUBE, 2-53					1											
1A	5136596	TUBE, 2-53						1										
	5123163	TUBE, 3,4-53								1								
1A	5128699	+ TUBE, 4-53									1							
6A	5138584	+ TUBE, 4-53										1						
6A	5138760	+ TUBE, 4-53											1					
1A	5128698	+ TUBE, 4-53												1				
	5136414	TUBE, 4-53													1			
	5102906	TUBE, 3, 4-53							1									
	5140183	TUBE, 4-53									1							
1A	5119425	FLANGE, 2,3,4-53 (4.1510)		1	1			1		1						1		
3A	5124946	FLANGE, 3-53			1													
1A	5108953	+ FLANGE, 4-53				1												
5A	5181801	ELBOW, 3/4" PIPE X 1" HOSE (5.2161)			1							1			1			
5A	5122564	ELBOW, 1" HOSE (5.2095)			1					1								
5A	5128262	ELBOW, 1" PIPE X 1 1/4" HOSE				2												
	5144512	CONNECTOR (5.2030)	1															
	5144702	CONNECTOR (4.2165)		1			1	1		1		1			1			
1A	5184301	SEAL RING (4.4060)		1	1			1		1						1		
	128003	BUSHING, 1"X3/4" RED. (12.9570)										1			1			
	5142549	PLUG, 3/4" PIPE (12.9550)	1	1	2	2	1	1		1		1	2	2	1			
3A	186625	BOLT, 5/16"-18X7/8" (12.9001)		2	4			2		2						2		
5A	106327	BOLT, 5/16"-18X1 3/8" (12.9001)				2												
1A	179822	BOLT, 5/16"-18X1 1/2" (12.9001)					2											
3A	103320	LOCKWASHER, 5/16" (12.9200)		AR	AR	AR	2 AR	AR		AR						AR		
		+ OBSOLETE.																
5.2165 - HOSE, WATER BY-PASS TUBE																		
1A	5169721	# HOSE, 7/8" I.D. X 1.74" L. 2, 3, 4-53 (4.8010)		1			1	1	2	1	2					1		
1A	5118149	# HOSE, 1" I.D. X 2" L. 4-53 (4.1642)										1			1			
6A	5118149	# HOSE, 1" I.D. X 2.50" L. 3, 4-53 (4.1642)			2					2		1			1			
	5112425	# HOSE, 1 1/8" I.D. X 1.88" L. 3, 6V53 (4.8010)	2															
6A	5120022	# HOSE, 1 1/4" I.D. X 2.26" L. 4-53 (4.1642)					2						2	2				
	5111832	NIPPLE, 1" PIPE X 1 1/4" HOSE											2	2				
1A	5186840	CLAMP, 1" DIA. HOSE (12.9660)		2	4		2	2	4	4	4	4			4	2		
6A	2337379	CLAMP, 1 1/4" DIA. HOSE (12.9660)	4			4							4	4				
	5105130	+ CLAMP, 1" HOSE (4.8175)	2															
	5144702	CONNECTOR (5.2165)							1		1					1		
	5142549	PLUG, 3/4"-14 PIPE (12.9550)							1		1					1		
		# STD. LENGTH HOSE; CUT TO LENGTH SHOWN.																
		+ OPTIONAL.																
5.2170 - GASKET, WATER BY-PASS TUBE																		
6A	5116357	GASKET, 3,4-53 (1.1070)			1	1												
6A	5128139	GASKET, 2-53					1											

[illegible]

5.2190 - CLIP, WATER BY-PASS TUBE

5177001	CLIP (8.3801)
179837	BOLT, 3/8"-16X3/4" (12.9001)
103321	LOCKWASHER, 3/8" (12.9200)

TYPES	
300	
318	
319	
320	
321	
325	
334	
338	111
340	
342	
343	
344	
345	
346	

5.2000C WATER BYPASS TUBE

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	348	349	351	352	354	355	360	370	381	382	387	399	401
5.2160 - TUBE, WATER BYPASS															
	NPN	TUBE (CUSTOMER FURNISHED)								1					
6A	5138584	% TUBE, 4-53		1											
1A	5146053	TUBE, 6V53 (CROSSOVER)			1	1			1					1	
1A	5148282	TUBE, 3,4-53									1				
1A	5145230	TUBE, 6V53			1	1			1					1	
1A	5136784	TUBE, 3-53 (UPPER)						1							
	5146555	TUBE, 3-53 (LOWER)						1							
	5130982	TUBE, 3,4-53 (UPPER)										1			
	5130209	TUBE, 3,4-53 (LOWER)										1			
	5104391	TUBE, 6V53											1		
	5109680	TUBE, 6V53 (CROSSOVER)											1		
	5135358	% TUBE, 8-53 (L.B.)					1								
	5135359	% TUBE, 8-53 (R.B.)					1								
1A	5119425	FLANGE, 2,3,4-53 (4.1510)						1			1	1			
1A	5125867	FLANGE, 3-53			3	3			3					3	
5A	5122564	ELBOW, 1" HOSE (5.2095)									1				
	5128262	ELBOW, 1" HOSE													2
	144116	ELBOW, 1" X 45 DEG. (12.9590)													2
	5144512	CONNECTOR (5.2030)			1	1			1					1	
	5144702	CONNECTOR (5.2165)						1			1	1			
1A	5184301	SEAL RING (4.4060)						1		1	1	1			
1A	5125150	SEAL RING			3	3			3					3	
	5111832	NIPPLE, 1" PIPE X 1 1/4" HOSE (5.2165)													2
	5142549	PLUG, 3/4" PIPE (12.9550)	2	2	1	1		1	1	1	1	2		6	
3A	186625	BOLT, 5/16"-18X7/8" (12.9001)			6	6		2			2	2			
	186618	BOLT 5/16"-18X5/8" (12.9001)							6						
3A	103320	LOCKWASHER, 5/16" (12.9200)			AR	AR		AR	AR		AR	AR		AR	
		% OBSOLETE.													
5.2165 - HOSE, WATER BYPASS TUBE															
1A	5169721	# HOSE, 7/8" I.D. X 1.74" L. 2, 3, 4-53 (4.8010)			1						1	1			
	5169721	# HOSE, 7/8" I.D. X 2.50" L. 3-53 (4.8010)			1										
6A	5118149	# HOSE, 1" I.D. X 2.50" L. 3, 4-53 (4.1642)									2				
	5112425	# HOSE, 1 1/8" I.D. X 1.88" L. 3, 6V53 (4.8010)			2	1									
6A	5120022	# HOSE, 1 1/4" I.D. X 2.26" L. 4-53 (4.8010)						2	1						
	5120022	# HOSE, 1 1/4" I.D. X 1.74" L. (4.8010)	2	2				4							
	5104839	HOSE, 1 1/8" I.D. X 1.88" L. 6V53											1		2
	8921827	HOSE, 2" I.D. X 2" L. (5.3330)											2		
	5111832	NIPPLE, 1" PIPE X 1 1/4" HOSE	2	2				2							

5.2000C WATER BYPASS TUBE

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 4 8	3 4 9	3 5 1	3 5 2	3 5 4	3 5 5	3 6 0	3 7 0	3 8 1	3 8 2	3 8 7	3 9 9	4 0 1
	5.2165	HOSE, WATER BYPASS TUBE (CONT'D)													
1A	5186840	CLAMP, 1 1/2" DIA. HOSE (12.9660)			2	2		4			4	4	2		
6A	2337379	CLAMP, 1 1/4" DIA. HOSE (12.9660)	4	4			8		2					2	4
	8920537	CLAMP, 2" DIA. HOSE (12.9660)											4		
	5144702	CONNECTOR, 3/4" PIPE -88" HOSE										1			
	5142549	PLUG, 3/4"-14 PIPE (2.4015)										1		1	
		# STD. LENGTH HOSE, CUT TO LENGTH SHOWN.													
	5.2190	CLIP, WATER BYPASS TUBE													
	5177001	CLIP (8.3801)										1			
	179837	BOLT, 3/8"-16X3/4" (12.9001)									1				
	103321	LOCKWASHER, 3/8" (12.9200)									1				

53 MPC ENGINES

FIG	PART NUMBER	NAME AND DESCRIPTION
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
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92	92	92
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96	96	96
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98	98	98
99	99	99
100	100	100

A RADIATOR ASSY. INCLUDES ITEMS IN 5.3001, 5.3100, 5.3120 AND 5.3130.

5119264	RADIATOR ASSY., 2-53
5119023	RADIATOR ASSY., 3,4-53
5122879	RADIATOR ASSY., 4-53
3153153	RADIATOR ASSY., 4-53
5128001	= RADIATOR ASSY., 2,3-53
5196525	TUBE, RADIATOR INLET 2-53
5196524	ADAPTOR, 1/4" PIPE THD. RADIATOR FLANGE
103647	DRAINCOCK, 1/4" (12.9510)
5121182	PLUG, 1/4" PIPE (2.4015)
9426177	SCREW, #10-16X3/8" RD. HD. (12.9065)
186625	BOLT, 5/16"-18X7/8" (12.9001)
179837	BOLT, 3/8"-16X3/4" (12.9001)
179839	BOLT, 3/8"-16X1" (12.9001)
179848	BOLT, 3/8"-16X2 1/4" (12.9001)
181360	BOLT, 3/8"-24X3/4" (12.9001)
120393	WASHER, 5/16" (12.9190)
103320	LOCKWASHER, 5/16" (12.9200)
103321	LOCKWASHER, 3/8" (12.9200)
	= ALSO INCLUDES FAN GUARD IN 5.40008.

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5123403 SHELL ASSY., 2-53 .....
5135963 SHELL ASSY., 4-53 .....
5122598 * SHELL ASSY., 3,4-53 .....
5139347 SUPPORT, RADIATOR SHELL 2-53 (C
ENGINE) .....
5125691 SUPPORT, RADIATOR SHELL 2-53 (A
ENGINE) .....
5126065 SUPPORT, RADIATOR SHELL 3,4-53
(UPPER)(BLOWER SIDE) (A ENGINE) .....
5126064 SUPPORT, RADIATOR SHELL 3,4-53
(UPPER)(EXHAUST SIDE) (A ENGINE) .....
5126066 SUPPORT, RADIATOR SHELL 3,4-53
(UPPER)(BLOWER SIDE) (C ENGINE) .....
5131200 SUPPORT, RADIATOR SHELL 3,4-53
(UPPER)(EXHAUST SIDE) (C ENGINE) .....
5126062 SUPPORT, RADIATOR SHELL 3,4-53
(LOWER)(EXHAUST SIDE) .....
5126061 SUPPORT, RADIATOR SHELL 3,4-53
(LOWER)(BLOWER SIDE) .....
5127989 SUPPORT, RADIATOR MOUNTING 2-53

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PAGE 1 OF 5.3000A

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5.3000A RADIATOR

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	5 7	5 8	6 2	6 4	6 8	6 9	7 0	7 2	7 6	7 7	7 8	7 9
5.3015 - SHELL ASSY., RADIATOR (CONT'D)														
5125783	*	SUPPORT, RADIATOR SHELL 3,4-53												1
5188167		SHIM (.031)					AR				AR			
443603		BOLT, 1/4"-20X3/4" (12.9001)		9								2	2	9
186647		BOLT, 1/4"-20X1" (12.9001)												1
181360		BOLT, 3/8"-24X3/4" (12.9001)		6		6								1
179838		BOLT, 3/8"-16X7/8" (12.9001)		1										1
186622		BOLT, 3/8"-16X1 1/4" (12.9001)	1									1	1	
181360		BOLT, 3/8"-24X3/4" (12.9001)	8	1		1						8	8	1
186627		BOLT, 3/8"-24X1" (12.9001)				2								2
181433		BOLT, 1/2"-20X1 3/4" (12.9001)					4				4			
5167615		WASHER, BEVEL (11.1073)					4							4
120392		WASHER, 1/4" (12.9190)	2									2	2	
106261		WASHER, 1/4" (12.9190)		11										11
103341		WASHER, 3/8" (12.9190)				6								
103319		LOCKWASHER, 1/4" (12.9200)	2	11								2	2	11
103321		LOCKWASHER, 3/8" (12.9200)	9	AR		AR						9	9	AR
103323		LOCKWASHER, 1/2" (12.9200)					4				4			
120375		NUT, 1/4"-20 (12.9120)	2	11									2	11
102635		NUT, 3/8"-16 (12.9120)	1	2								2	1	2
117049		NUT, 3/8"-24 (12.9120)	8			9						8	8	
122761		NUT, 1/2"-20 (12.9120)					4							
		# FIG. 10D OF 1.0000.												
		* OBSOLETE.												
5.3100 - NECK ASSY., RADIATOR FILLER														
5196607		NECK, 2-53	1							1		1	1	
5.3120 - CAP, RADIATOR FILLER														
850802		CAP, 2,4,6V53	1						1	1		1	1	
5197822		CAP, 2,3,4-53		1	1	1	1	1			1			1
5.3130 - GASKET, RADIATOR FILLER CAP														
850627		GASKET, 2,4,6V53	1						1	1		1	1	
5.3250 - SPACER, RADIATOR MOUNTING														
5130179		SPACER, 3/4"X.40"X.18" 2-53 (12.5023)										1		
5.3260 - BRACKET, RADIATOR MOUNTING														
5127988	+	SUPPORT, 2-53					2							2
5177469		SPACER, 2-53					1							1
181435		BOLT, 1/2"-20X2" (12.9001)					2							2
		+ OBSOLETE.												

5.3000A RADIATOR

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	8 0	8 1	8 2	8 3	8 4	8 6	8 9	9 4	1 0 0	1 0 1	1 0 3
	5.3001	RADIATOR ASSY.											
		A RADIATOR ASSY. INCLUDES ITEMS IN 5.3001, 5.3100, 5.3120 AND 5.3130.											
	5119023	RADIATOR ASSY., 3,4-53	1		1						1		
	5122879	RADIATOR ASSY., 4-53		1		1	1						
	5128001	RADIATOR ASSY., 2,3-53						1					
	3144548	RADIATOR ASSY., 6V53							1	1			1
	3147651	RADIATOR ASSY., 6V53										1	
	103647	DRAINCOCK, 1/4" (12.9510)	1	1	1	1	1	1			1		
	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1						
	186625	BOLT, 5/16"-18X7/8" (12.9001)	8		8								
	186629	BOLT, 5/16"-18X1" (12.9001)							10	10		10	
	179837	BOLT, 3/8"-16X3/4" (12.9001)						2					
	179839	BOLT, 3/8"-16X1" (12.9001)						1					
	179848	BOLT, 3/8"-16X2 1/4" (12.9001)						1					
	181380	BOLT, 3/8"-24X3/4" (12.9001)		8		8	8				8		
	120393	WASHER, 5/16" (12.9190)							10	10		10	
	120393	WASHER, 11/32" X 11/16" (12.9190)	4		4								
	103320	LOCKWASHER, 5/16" (12.9200)	8		8				10	10		10	
	103321	LOCKWASHER, 3/8" (12.9200)		8		8	8	4			8		
		= ALSO INCLUDES FAN GUARD IN 5.4000B.											
	5.3015	SHELL ASSY., RADIATOR											
#	5135963	SHELL ASSY., 4-53	1	1	1	1							
	5122598	* SHELL ASSY., 3,4-53					1						
	5122418	@ SHELL ASSY., 6V53							1				
	5140952	SHELL ASSY., 6V53								1		1	
	5126065	SUPPORT, RADIATOR SHELL 3,4-53 (UPPER)(BLOWER SIDE) (A ENGINE)	1			1							
	5126064	SUPPORT, RADIATOR SHELL 3,4-53 (UPPER)(EXHAUST SIDE) (A ENGINE)	1			1							
	5126066	SUPPORT, RADIATOR SHELL 3,4-53 (UPPER)(BLOWER SIDE) (C ENGINE)		1	1								
	5131200	SUPPORT, RADIATOR SHELL 3,4-53 (UPPER)(EXHAUST SIDE) (C ENGINE)		1	1								
	5126062	SUPPORT, RADIATOR SHELL 3,4-53 (LOWER)(EXHAUST SIDE)	1	1	1	1							
	5126061	SUPPORT, RADIATOR SHELL 3,4-53 (LOWER)(BLOWER SIDE)	1	1	1	1							
	5127989	SUPPORT, RADIATOR MOUNTING 2-53						1					
	5125763	SUPPORT, RADIATOR SHELL 3,4-53					1						
	5188167	SHIM (.031)						AR					
	443603	BOLT, 1/4"-20X3/4" (12.9001)					9						
	186647	BOLT, 1/4"-20X1" (12.9001)					1						
	179816	BOLT, 3/16"-18X3/4" (12.9001)	4	4	4	4							
	181360	BOLT, 3/8"-24X3/4" (12.9001)	6	6	6	6							

5.3000A RADIATOR

PART		TYPES										
..FIG ..	NUMBER	NAME AND DESCRIPTION										
		8 0	8 1	8 2	8 3	8 4	8 6	8 9	9 4	1 0 0	1 0 1	1 0 3
5.3015 - SHELL ASSY., RADIATOR (CONT'D)												
179838	BOLT, 3/8"-16X7/8" (12.9001)					1						
181360	BOLT, 3/8"-24X3/4" (12.9001)					1						
186627	BOLT, 3/8"-24X1" (12.9001)	2	2	2	2	2						
181433	BOLT, 1/2"-20X1 3/4" (12.9001)						4					
5167615	WASHER, BEVEL (11.1073)					4						
106261	WASHER, 5/16" (12.9190)					11						
103341	WASHER, 3/8" (12.9190)	6	6	6	6							
103319	LOCKWASHER, 1/4" (12.9200)					11						
103321	LOCKWASHER, 3/8" (12.9200)	11	11	11	11	AR						
103323	LOCKWASHER, 1/2" (12.9200)						4					
120375	NUT, 1/4"-20 (12.9120)					11						
102635	NUT, 3/8"-16 (12.9120)					2						
117049	NUT, 3/8"-24 (12.9120)	9	9	9	9							
122761	NUT, 1/2"-20 (12.9120)						4					
	# FIG. 10D OF 1.0000.											
	@ NOT SERVICED. FOR REPLACEMENT											
	USE 5140952 SHELL AND 5197679											
	CAP.											
	* OBSOLETE.											
5.3120 - CAP, RADIATOR FILLER												
850802	CAP, 2,4,6V53							1				
5197822	CAP, 2,3,4-53	1	1	1	1	1	1			1		
5197679	CAP ASSY., 6V53								1		1	
5.3151 - COVER, RADIATOR FILLER CAP												
5195080	COVER AND HINGE ASSY., 6V53							1				
5.3160 - PIPE, RADIATOR OVERFLOW												
5124238	HOSE, 3/8" I.D.X50" L. (CUT L. 8") (1.1060)							1	1		1	
5.3260 - BRACKET, RADIATOR MOUNTING												
5127988	+ SUPPORT, 2-53						2					
5177469	SPACER, 2-53 (7.1585)						1					
181435	BOLT, 1/2"-20X2" (12.9001)						2					

5.3000A RADIATOR

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	80	81	82	83	84	86	89	94	100	101	103
	5.3260	BRACKET, RADIATOR MOUNTING (CONT'D)											
		+ OBSOLETE											
	5.3268	NAME PLATE (RADIATOR)											
5174098		PLATE, NAME 6V53	2	2	2				2			2	
5144861		DECAL, 3,4,6V53								2			
162991		SCREW, 1/4"-14 X 1/2" TAP (12.9065)							12				