

4.2000A OIL FILTER

			TYPES											
..FIG	PART NUMBER	NAME AND DESCRIPTION	3 5 6	3 5 7	3 5 8	3 5 9	3 6 0	3 6 1	3 6 2	3 6 3	3 6 4	3 6 5	3 6 6	3 6 7
		4.2291 - ADAPTOR, OIL FILTER COVER (CONT'D)												
	5134304	ADAPTOR, 6V53 (STRAIGHT) (4.3025)										1	1	
	5129617	ADAPTOR, 6V-53									1			
	5121182	PLUG, 1/4" PIPE (2.4015)								1				
	5147341	SPACER (4.2290)												
	186622	BOLT, 3/8"-16 X 1 1/4" (12.9001)	4	4			4	4	4			4	4	
	186612	BOLT, 3/8"-16 X 1 3/8" (12.9001)												
	179846	BOLT, 3/8"-16 X 1 7/8" (12.9001)								4				
	103341	WASHER, 3/8" (12.9190)										4		
	103321	LOCKWASHER, 3/8" (12.9200)	4	4			4	4	4	4		4	4	
		4.2293 - GASKET, OIL FILTER COVER ADAPTOR												
	5137549	GASKET	1					1	1	1			1	
	5128486	GASKET		1			1							
	5121205	GASKET				1	1							
	5133263	GASKET										1		
		4.2300 - GASKET, OIL FILTER COVER												
3A	5571024	GASKET, 3-53									1			
		4.2310 - SPRING, OIL FILTER												
3A	5187308	SPRING, 3-53									1			
		4.2315 - RETAINER, OIL FILTER SPRING												
3A	5187309	RETAINER, 3-53									1			
3A	122366	NUT, 5/8"-18 (12.9120)									1			
		4.2330 - GASKET, OIL FILTER COVER NUT												
3A	5187310	GASKET, RETAINER									1			
3A	5154538	WASHER (1.8182)									1			
3A	6437298	GASKET, 3-53									1			
		4.2350 - GASKET, OIL FILTER ADAPTOR												
3A	5121205	GASKET, 6V53		1	1						1		2	1
		4.2410 - STUD, OIL FILTER CENTER												
3A	5116427	STUD, 3-53									1			
		4.2440 - BRACKET, OIL FILTER MOUNTING												
	5137739	BRACKET, 6V53	1	1					1	1				
	5107020	BRACKET, 6V53										1		

4.2000A OIL FILTER

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 5 6	3 5 7	3 5 8	3 5 9	3 6 0	3 6 1	3 6 2	3 6 3	3 6 4	3 6 5	3 6 6	3 6 7
		4.2485 - VALVE, OIL FILTER BY-PASS												
		A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486 AND 4.2488.												
3A	5133431	VALVE	1				1	1	1	1	1	1		
	5198303	VALVE KIT	1				1	1	1	1	1	1		
		4.2486 - SPRING, OIL FILTER BY-PASS VALVE												
3A	5134477	SPRING	1				1	1	1	1	1	1		
		4.2488 - PLUG, OIL FILTER BY-PASS VALVE												
3A	5134456	RETAINER	1				1	1	1	1	1	1		
3A	160221	SCREW, #12-24 X 1/2" (12.9026)	1				1	1	1	1	1	1		

4.2000A OIL FILTER

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	4 1 2	4 1 3	4 1 4	4 1 6	4 1 7	4 1 8	4 1 9	4 2 0	4 2 1	4 2 2	4 2 3	4 2 4
		4.2240 - FILTER ASSY., OIL												
	5104115	ADAPTOR AND INSERT ASSY. (SPIN-ON)	1					1	1	1		1	1	1
	5104419	ADAPTOR ASSY. (SPIN-ON)		1	1	1	1				1			
	5103762	+ ADAPTOR AND INSERT ASSY. (SPIN-ON)		1	1	1	1				1			
	5111798	PLUG, 1" PIPE (12.9550)	2					2	2	2		2		
	8924152	BUSHING, 1X3/4" RED. (12.9570)						2						
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)			4						4			
	179845	BOLT, 3/8"-16X1 3/4" (12.9001)				4	4							
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)		4										
	181370	BOLT, 3/8"-24X1 1/4" (12.9001)								4			4	4
	103341	WASHER, 3/8" (12.9190)	4	4	4	4	4			4	4			
	103321	LOCKWASHER, 3/8" (12.9200)		4	4	4	4			4	4		4	4
	117049	NUT, 3/8"-24 (12.9120)								4			4	4
		+ NOT SERVICED, USE 5104419 ADAPTOR.												
		4.2250 - ELEMENT, OIL FILTER												
3A	25010495	ELEMENT	1	1	1	1	1	1	1	1	1	1		1
3A	25011106	ELEMENT											1	
		4.2291 - ADAPTOR, OIL FILTER COVER												
	5129617	ADAPTOR			1									
	5108758	ADAPTOR				1								
	5109340	ADAPTOR					1							
	5127268	ADAPTOR									1			
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)			4									
	426368	BOLT, 3/8"-16X3/4" (12.9001)				4	4							
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)									4			
	103321	LOCKWASHER, 3/8" (12.9200)		4							4			
		4.2293 - GASKET, OIL FILTER ADAPTOR TO OIL COOLER ADAPTOR												
	5128486	GASKET			1						1			
	5121205	GASKET				1	1							
		4.2350 - GASKET, OIL FILTER ADAPTOR												
	8921708	GASKET		1	1	1	1				1			
		4.2485 - VALVE, OIL FILTER BYPASS												
3A	5133431	VALVE		1	1	1	1				1			
		4.2486 - SPRING, OIL FILTER BYPASS VALVE												
3A	5134477	SPRING		1	1	1	1				1			
		4.2488 - PLUG, OIL FILTER BYPASS VALVE												
3A	5134456	RETAINER		1	1	1	1				1			
3A	160221	SCREW, #12-24X1/2" (12.9026)		1	1	1	1				1			
	5121182	PLUG, 1/4" PIPE (2.4015)		2	2	2	2				2			

4.2000A OIL FILTER

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	4 1 2	4 1 3	4 1 4	4 1 6	4 1 7	4 1 8	4 1 9	4 2 0	4 2 1	4 2 2	4 2 3	4 2 4
4.2440 - BRACKET, OIL FILTER MOUNTING														
5137739	BRACKET									1			1	1
5137965	BRACKET													
5173144	SPACER, 13/32"x3/4"x1 13/16" (4.8040)									2			3	3
5157412	SPACER, 13/32"x7/8"x1/4"									2				
186619	BOLT, 3/8"-16X1 1/8" (12.9001)									1				
215510	BOLT, 3/8"-16X5 3/4" (12.9001)									1				
186318	BOLT, 3/8"-24X5 1/4" (12.9001)												3	3
186628	BOLT, 3/8"-16X1 1/2" (12.9001)													
120394	WASHER, 13/32"x13/16" (12.9190)									2			3	3
103321	LOCKWASHER, 3/8" (12.9200)									3				

4.2000A OIL FILTER

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			4 2 5	4 2 6	4 2 8	4 2 9	4 3 0	4 3 1	4 3 2	4 3 3	4 3 4	4 3 5	4 4 7	4 5 5
		4.2240 - FILTER ASSY., OIL												
		SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.												
	5100800	FILTER ASSY., 6V53 (PAGE C1)												1
	5104419	ADAPTOR ASSY. (SPIN-ON)	1						1	1		1		
	5103762	+ ADAPTOR AND INSERT ASSY. (SPIN-ON)	1						1	1		1		
	5104115	ADAPTOR AND INSERT ASSY. (SPIN-ON)		1	1	1	1				1			
	5104420	ADAPTOR ASSY. (SPIN-ON)						1					1	
	5103892	INSERT (SPIN-ON)						1					1	
	5111798	PLUG, 1" PIPE (12.9550)		2	2	2	2				2			
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)												4
	179845	BOLT, 3/8"-16X1 3/4" (12.9001)	4						4			4		
	181370	BOLT, 3/8"-24X1 1/4" (12.9001)		4	4		4							
	179839	BOLT, 3/8"-16X1" (12.9001)						4						
	186282	BOLT, 3/8"-16X3 1/4" (12.9001)								4				
	103341	WASHER, 3/8" (12.9190)	4						4	4		4		4
	103321	LOCKWASHER, 3/8" (12.9200)	4	4	4		4	4	4	4		4		4
	117049	NUT, 3/8"-24 (12.9120)		4	4		4							
		+ NOT SERVICED, USE 5104419 ADAPTOR.												
		4.2250 - ELEMENT, OIL FILTER												
3A	25010495	ELEMENT	1	1	1	1		1		1		1	1	
3A	25011106	ELEMENT					1		1		1	1	1	
		4.2291 - ADAPTOR, OIL FILTER COVER												
	5106221	ADAPTOR, 6V53												1
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)												2
	108608	BOLT, 3/8"-16X2 1/8" (12.9001)												2
	103341	WASHER, 3/8" (12.9200)												4
	103321	LOCKWASHER, 3/8" (12.9190)												4
		4.2270 - SPACER, OIL FILTER												
	5143064	SPACER, 3-53 (4.2290)								1				
		4.2293 - GASKET, OIL FILTER ADAPTOR TO OIL COOLER ADAPTOR												
	5121205	GASKET								1				1
		4.2350 - GASKET, OIL FILTER ADAPTOR												
	8921708	GASKET	1						1	1		1		
	5104866	GASKET												1
		4.2440 - BRACKET, OIL FILTER MOUNTING												
	5137739	BRACKET		1	1									
	5137965	BRACKET					1							
	5107020	BRACKET						1						
	5173144	SPACER, 13/32"X3/4"X1 13/16" (4.8040)												
	5157412	SPACER, 13/32"X7/8"X1 1/4" (7.4013)		2	2		3							
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)		2	2									
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)					3							

4.2000A OIL FILTER

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 2 5	4 2 6	4 2 8	4 2 9	4 3 0	4 3 1	4 3 2	4 3 3	4 3 4	4 3 5	4 4 7	4 5 5
4.2440 - BRACKET, OIL FILTER MOUNTING (CONT'D)														
	186658	BOLT, 3/8"-24X5 1/2" (12.9001)		1										
	215510	BOLT, 3/8"-16X5 3/4" (12.9001)		1	1									
	186318	BOLT, 3/8"-24X5 1/4" (12.9001)			1									
	120394	WASHER, 13/32"X13/16" (12.9190)		2	2									
	103321	LOCKWASHER, 3/8" (12.9200)		2	2		3							
4.2485 - VALVE, OIL FILTER BYPASS														
3A	5133431	VALVE	1					1	1	1		1	1	
4.2486 - SPRING, OIL FILTER BYPASS VALVE														
3A	5134477	SPRING	1					1	1	1		1	1	

4.2000A OIL FILTER

PART			TYPES											
..FIG	..NUMBER	NAME AND DESCRIPTION	4 2 5	4 2 6	4 2 8	4 2 9	4 3 0	4 3 1	4 3 2	4 3 3	4 3 4	4 3 5	4 4 7	4 5 5
4.2488 - PLUG, OIL FILTER BYPASS VALVE														
3A	5134456	RETAINER	1					1	1	1		1		
3A	160221	SCREW, #12-24X1/2" (12.9026)	1					1	1	1		1		
	5121182	PLUG, 1/4" PIPE (12.9550)	2					1	2	2		2	1	
	5126686	PLUG, 1 1/4"-16						1					1	
4.2489 - GASKET, OIL FILTER BYPASS PLUG														
	5575086	GASKET						1					1	

DETROIT DIESEL

53 MPC ENGINES

4.2000A OIL FILTER

		TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	4	6	6								
	4.2240	FILTER ASSY. OIL											
		SEE ASSEMBLY BREAKDOWN AS INDICATED ON PAGE C1.											
	5100759	* FILTER ASSY., 6V53	1										
	5111798	PLUG, 1" PIPE (12.9550)	2										
		* NOT SERVICED, USE 5100800.											
	4.2350	GASKET, OIL FILTER ADAPTOR											
	5121205	GASKET	1										

4.2000A OIL FILTER

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		4.2240 - FILTER ASSY., OIL														
	5121120	+ FILTER ASSY.	1													
	5121143	+ FILTER ASSY.,2,3-53		1												
	5122527	+ FILTER ASSY.,4-53			1											
	5125025	FILTER ASSY.,2,3-53				1										
	5126546	FILTER ASSY.,8V53					1									
	5181797	FILTER ASSY.,4-53,8V53						1								
	5570098	+ FILTER ASSY.,2-53							1							
	5572941	FILTER ASSY.,2-53								1						
	5126275	+ FILTER ASSY.,4-53									1					
	5126276	+ FILTER ASSY.,4-53										1				
	5105075	+ FILTER ASSY.,3-53											1			
	5105058	+ FILTER ASSY.,3-53												1		
		+ NOT SERVICED, SHOWN FOR REFERENCE ONLY.														
		4.2250 - ELEMENT, OIL FILTER														
3A	5573014	ELEMENT,6V53 (9") (AC TYPE PF-132) (INCLUDES GASKET IN 4.2300)	1		1		2	1			1	1				
3A	5574978	ELEMENT,3-53 (6") (AC TYPE PF-147) (INCLUDES GASKET IN 4.2300)		1		1							1	1		
3A	5572288	ELEMENT (AC TYPE P-115) (INCLUDES GASKET IN 4.2300)							1							
	5572425	ELEMENT (AC TYPE P-117) (INCLUDES GASKET IN 4.2300)								1						
	5570487	+ SPACER							1							
		+ OBSOLETE.														
		4.2280 - SHELL, OIL FILTER														
3A	5574008	SHELL (INCLUDES PLUG)	1		1		2	1		1	1	1				
3A	5574906	SHELL (INCLUDES PLUG)		1		1							1	1		
	5572667	+ SHELL							1							
3A	5570480	PLUG (2.3050)	1	1	1	1	2	1		1	1	1				
		+ OBSOLETE														
		4.2290 - COVER, OIL FILTER (ADAPTOR)														
3A	5121124	* ADAPTOR (5134908)	1	1												
	5122524	@ ADAPTOR,4-53			1											
	5147684	ADAPTOR,2,3-53				1		1								
3A	5124138	ADAPTOR,8V53					1									
	5134311	ADAPTOR,4-53									1				1	
	5126214	* ADAPTOR,4-53 (5134311)									1					
	5134312	ADAPTOR,3,4-53										1	1			
	5126215	* ADAPTOR,4-53 (5134312)										1				
	5574128	+ COVER,2-53							1							
	5571505	COVER,2-53								1						

4.2000A OIL FILTER

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		4.2290 - COVER, OIL FILTER (ADAPTOR) (CONT'D)														
3A	5571540	TUBE, 4-53 (1 9/16" L)	2	2	2	2		2		1	2	1	1	1		
	5121182	PLUG, 1/4" PIPE (2.4015)						1		1						
	112578	PLUG, 1/4" BR. PIPE (12.9550)						1		1						
		* NOT SERVICED, USE PART NUMBER SHOWN PLUS (1) 5198303 VALVE KIT.														
		@ NOT SERVICED; USE 5134311 (LH UNITS) OR 5134312 (RH UNITS) PLUS (1) 5198303 VALVE KIT.														
		+ OBSOLETE.														
		4.2300 - GASKET, OIL FILTER COVER														
3A	5571024	GASKET	1	1	1	1	2	1		1	1	1	1	1		
		4.2310 - SPRING, OIL FILTER														
3A	1503518	SPRING								1						
3A	5187308	SPRING	1	1	1	1	2	1			1	1	1	1		
		4.2315 - RETAINER, OIL FILTER SPRING														
3A	5187309	RETAINER	1	1	1	1	2	1			1	1	1	1		
3A	5120602	* RING, RETAINER SNAP	1	1	1	1	2	1			1	1				
	122366	@ NUT, 5/8"-18 (12.9120)	1	1	1	1	2	1			1	1	1	1		
		* THRU 2D-14198, 3D-6234, 4D-8702, 6D-2867.														
		@ EFFECTIVE WITH 2D-14199, 3D-6235, 4D-8703, 6D-2868.														
		4.2330 - GASKET, OIL FILTER COVER NUT														
3A	5187310	GASKET, RETAINER	1	1	1	1	2	1			1	1	1	1		
3A	6437298	GASKET	1	1	1	1	2	1	1	1	1	1	1	1		
	5154538	WASHER (1.8182)	1	1	1	1	2	1			1	1	1	1		
		4.2410 - STUD, OIL FILTER CENTER														
3A	1595893	STUD								1						
3A	5116427	STUD		1		1							1	1		
3A	5120740	STUD	1		1		2	1			1	1				
		4.2485 - VALVE, OIL FILTER BY-PASS														
3A	5133431	VALVE	1	1	1						1	1	1	1		

4.2000A OIL FILTER

			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
4.2486 - SPRING, OIL FILTER BY-PASS VALVE															
3A	5134477	SPRING	1	1	1						1	1	1	1	
4.2488 - PLUG, OIL FILTER BY-PASS VALVE															
	5126686	PLUG					1								
3A	5134456	RETAINER	1	1	1						1	1	1	1	
3A	450865	+ # SCREW, #12-24X3/4" RD. HD. (12.9025)	1	1	1						1	1			
3A	160221	* SCREW, #12-24X1/2" CR. REC. HD. (12.9065)	1	1	1						1	1	1	1	
		+ EARLY ENGINES													
		* LATE ENGINES													
		# NOT SERVICED, USE 160221.													
4.2489 - GASKET, OIL FILTER BY-PASS VALVE PLUG															
	5575086	GASKET					1								

4.2000A OIL FILTER

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

			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
4.2240 - FILTER ASSY., OIL																
	5126283	@ FILTER ASSY.,3-53	1													
	5126284	@ FILTER ASSY.,3-53		1												
	5196393	FILTER ASSY.,3-53,6V53			1											
	5125384	@ FILTER ASSY.,3-53,6V53				1										
	2325391	FILTER ASSY.,6V53					1									
	5572942	@ FILTER ASSY.,3-53						1								
	5134392	@ FILTER ASSY.							1							
	5136237	@ FILTER ASSY.,3-53								1						
	5134406	@ FILTER ASSY.,4-53									1					
	5134393	@ FILTER ASSY.,2-53										1				
		@ SHOWN FOR COMPONENT REFERENCE ONLY.														
4.2250 - ELEMENT, OIL FILTER																
3A	5574978	ELEMENT (6") (AC TYPE PF-147) (INCLUDES GASKETS IN 4.2300)	1	1							1		1			
3A	5573014	ELEMENT (9") (AC TYPE PF-132) (INCLUDES GASKETS IN 4.2300)			1	1			1		1					
3A	5573898	ELEMENT (AC TYPE C-267)					1									
	5572425	ELEMENT (AC TYPE P-117) (INCLUDES GASKETS IN 4.2300)						1								
4.2270 - SPACER, OIL FILTER																
	5570487	+ SPACER + OBSOLETE.						1								
4.2280 - SHELL, OIL FILTER																
3A	5574906	SHELL (INCLUDES PLUG)	1	1							1		1			
3A	5574008	SHELL (INCLUDES PLUG)			1	1			1			1				
	5572409	+ SHELL (INCLUDES PLUG)						1								
	5570480	PLUG (2.3050)	1	1	1	1			1			1	1			
	5121182	PLUG, 1/4 PIPE (12.9550) + OBSOLETE.						1			1					
4.2290 - COVER, OIL FILTER																
	5126214	* ADAPTOR	1													
	5126215	* ADAPTOR		1												
	5123382	ADAPTOR			1											
	5125383	# ADAPTOR (5147684)				1										
	5574128	+ ADAPTOR (INCLUDES ITEMS IN 4.2310, 4.2320, 4.2330)						1								
	5134908	= ADAPTOR							1				1			
	5109904	# ADAPTOR (5147684)								1						

4.2000A OIL FILTER

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
4.2290 - COVER, OIL FILTER (CONT'D)															
3A	5134311	ADAPTOR									1				
	5121182	PLUG, 1/4" PIPE (12.9550)	1	1	1	1			2	2	1	2			
		# NOT SERVICED. FOR REPLACEMENT USE NUMBER SHOWN IN PARENTHESES PLUS (2) 128003 AND (2) 5111798.													
		= NOT SERVICED; USE 5100818 PLUS (1) 5573711 OR USE ELEMENT PACKAGE.													
		+ OBSOLETE.													
		* NOT SERVICED, USE 5104419 ADAPTOR, 8921708 GASKET AND EITHER 25010495 OR 25011106 FILTER ELEMENT.													
4.2300 - GASKET, OIL FILTER COVER															
3A	5571024	GASKET (RECTANGULAR SECTION)	1	1	1	1		1	1	1	1	1			
	5573711	GASKET (SQUARE SECTION)							1			1			
4.2310 - SPRING, OIL FILTER															
3A	5187308	SPRING	1	1	1	1			1	1	1	1			
	5574129	+ SPRING						1							
		+ OBSOLETE.													
4.2315 - RETAINER, OIL FILTER SPRING															
3A	5187309	RETAINER	1	1	1	1			1	1	1	1			
3A	5120602	* RETAINER (SNAP RING) (2.4227)	1	1	1	1									
	122366	@ NUT, 5/8"-18 (12.9120)	1	1	1	1			1	1	1	1			
		* THRU 2D-14198, 3D-6234, 4D-8702, 6D-2867.													
		@ EFFECTIVE WITH 2D-14199, 3D-6235, 4D-8703, 6D-2868.													
4.2330 - GASKET, OIL FILTER COVER NUT															
3A	5187310	GASKET, RETAINER	1	1	1	1			1	1	1	1			
3A	6437298	GASKET	1	1	1	1		1	1	1	1	1			
	5154538	WASHER (1.8182)	1	1	1	1			1		1	1			
4.2350 - GASKET, OIL FILTER ADAPTOR															
	5574127	+ BOLT, LOCK						1							
		+ OBSOLETE.													
4.2410 - STUD, OIL FILTER CENTER															
3A	5116427	STUD	1	1						1		1			
3A	5120740	STUD			1	1			1		1				
	1595893	STUD						1							

4.2000A OIL FILTER

PART FIG ... NUMBER ... NAME AND DESCRIPTION			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
4.2485 - VALVE, OIL FILTER BYPASS																
A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486 AND 4.2488.																
IA	5198303	VALVE KIT			1				1		1	1				
	5133431	VALVE	1	1	1				1		1	1				
4.2486 - SPRING, OIL FILTER BYPASS VALVE																
IA	5133594	SPRING			1											
IA	5134477	SPRING	1	1					1		1	1				
4.2488 - PLUG, OIL FILTER BYPASS VALVE																
IA	5126686	PLUG			1											
IA	5134456	RETAINER	1	1					1		1	1				
IA	160221	SCREW, #12-24X1/2" CR. REC. HD. (12.9026)	1	1					1		1	1				
4.2489 - GASKET, OIL FILTER BYPASS PLUG																
	5575086	GASKET			1											

4.2000A OIL FILTER

			COLUMN													
PART	FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
4.2240 - FILTER ASSY., OIL																
5137659			* FILTER ASSY., 6.8V53	1												
5134408			* FILTER ASSY., 4-53		1											
5133313			* FILTER ASSY., 6V53			1										
5136524			FILTER ASSY., 8V53				1									
5124065			FILTER ASSY., 8V53					1								
5199700			* FILTER ASSY., 3-53						1							
5147683			FILTER ASSY., 4-53, 6.8V53							1						
5100800			FILTER ASSY., 4-53, 6.8V53								1					
5100758			FILTER ASSY., 3-53									1				
5100757			FILTER ASSY., 2, 3-53										1			
5107009			FILTER ASSY., 6V53											1		
5100759			* FILTER ASSY., 6V53												1	
5104201			FILTER ASSY., 4-53													1
* NOT SERVICED, SHOWN FOR COMPONENT REFERENCE ONLY.																
4.2250 - ELEMENT, OIL FILTER																
3A	5573014		ELEMENT (9") (AC TYPE PF-132) (INCLUDES GASKETS IN 4.2300)	1	1	1	2	2		1	1			1	1	1
	5574978		ELEMENT (6") (AC TYPE PF-147) (INCLUDES GASKETS IN 4.2300)						1			1	1			
4.2280 - SHELL, OIL FILTER																
3A	5574008		SHELL (INCLUDES PLUG)	1	1	1	1	2		1	1			1	1	1
	5574906		SHELL (INCLUDES PLUG)						1			1	1			
	5570480		PLUG (2.3050)	1	1	1	1	2	1	1	1	1	1	1	1	1
	5573162		% DECAL				2				1					
	5575213		% DECAL									1	1			
% OBSOLETE.																
4.2290 - COVER, OIL FILTER																
	5137651		# ADAPTOR	1												
	5134312		ADAPTOR		1											
	5147684		ADAPTOR (INCLUDES INSERT)			1				1						
	5124065		ADAPTOR				1									
	5136347		ADAPTOR					1								
	5134908		= ADAPTOR (INCLUDES INSERT)						1							
	5100818		ADAPTOR (INCLUDES INSERT)								1	1	1		1	
	5123382		ADAPTOR											1		
	5104246		* ADAPTOR													1
3A	5121182		PLUG, 1/4" PIPE (2.4015)		1		2	2	2		2		2	1	2	1
	454557		INSERT, TAP 5/8"-18X1/8"			1			1	1	1	1	1			
# NOT SERVICED; USE 5147684 PLUS (2) 5111798 AND (2) 128003.																
= NOT SERVICED; USE 5100818 PLUS (1) 5573711 OR USE ELEMENT PACKAGE.																
* NOT SERVICED; USE 5104419 PLUS (1) 8921708 AND (1) 25010495.																

4.2000A OIL FILTER

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
4.2300 - GASKET, OIL FILTER COVER																
3A	5571024	GASKET (RECTANGULAR SECTION)	1	1	1	1	2	1	1		1	1	1	1	1	
	5573711	GASKET (SQUARE SECTION)								1	1	1		1		
4.2310 - SPRING, OIL FILTER																
3A	5187308	SPRING	1	1	1	2	2	1	1	1	1	1	1	1	1	
4.2315 - RETAINER, OIL FILTER SPRING																
3A	5187309	RETAINER	1	1	1	2	2	1	1	1	1	1	1	1	1	
	122366	NUT, 5/16"-18 (12.9120)	1	1	1	2	2	1	1	1	1	1	1	1	1	
	114498	NUT, 5/16"-18 (12.9120)													1	
4.2330 - GASKET, OIL FILTER COVER NUT																
3A	5187310	GASKET, RETAINER	1	1	1	2	2	1	1	1	1	1	1	1	1	
3A	6437298	GASKET	1	1	1	2	2	1	1	1	1	1	1	1	1	
	5154538	WASHER (1.8182)	1	1	1	2	2	1	1	1	1	1	1	1	1	
4.2410 - STUD, OIL FILTER CENTER																
3A	5120740	STUD	1	1	1	2	2		1	1	1		1	1	1	
	5116427	STUD						1				1				
4.2485 - VALVE, OIL FILTER BY-PASS																
A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486 AND 4.2488.																
3A	5198303	VALVE KIT		1			1	1		1	1	1	1	1	1	
	5133431	VALVE		1			1	1		1	1	1	1	1	1	
	5136358	VALVE (4.4110)			1											
4.2486 - SPRING, OIL FILTER BY-PASS VALVE																
3A	5134477	SPRING		1				1		1	1	1		1	1	
	5137984	SPRING				1										
	5133594	SPRING					1						1			
4.2488 - PLUG, OIL FILTER BY-PASS VALVE																
3A	5134456	RETAINER		1				1		1	1	1		1	1	
3A	160221	SCREW, #12-24X1/2" CR. REC. HD. (12.9065)		1				1		1	1	1		1	1	

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

DETROIT DIESEL

4.2000A OIL FILTER

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

4.2488 - PLUG, OIL FILTER BY-PASS VALVE
 (CONT'D)

5134807 PLUG (4.4160)
 5126686 PLUG

4.2489 - GASKET, OIL FILTER BY-PASS PLUG

5134920 GASKET
 5575086 GASKET

COLUMN													
A	B	C	D	E	F	G	H	I	J	K	L	M	N
			1	1						1			
			1	1			1	1	1	1			

4.3000A OIL FILTER LINES

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	78	79	89	92	93	95	98	102	105	108	110	114
4.3001 - TUBE, OIL FILTER INLET														
OA	5122632	+ TUBE,3-53	1											
OA	5122678	TUBE,3-53		1										
OA	5122415	= HOSE ASSY.,2-53(3/8" I.D.X15" L.)			1									
OA	5174867	HOSE ASSY.,2-53(3/8" I.D.X24" L.) (4.7100)						1						
	5120684	HOSE ASSY.,6V53(5/8" I.D.X 17 3/4" L.) (3.5505)				1				1				
OA	5177697	HOSE ASSY.,6V53(5/8" I.D.X 20 5/8" L.) (8.3810)										1		
OA	5120029	HOSE ASSY.,6V53 (5/8" I.D.X36" L.) (3.5505)									1			
OA	5110932	HOSE ASSY.,6V53 (7/8" I.D.X 43 1/2" L.)											1	1
	144613	NIPPLE, 3/4"X1 3/8" PIPE (12.9560)												
	5176528	RING, SEAL 3/8" TUBE SEALASTIC (12.9435)	2	2										
	5176705	ELBOW (AT FILTER) (8.3800)				1				1	1	1		
	143338	ELBOW, 3/8" INV. FL. TUBE 45 DEG. (12.9480)						1						
	193004	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9480)						1						
	140798	ELBOW, 3/4" STREET 45 DEG. (12.9590)	1	1										
	141621	ELBOW, 3/4" STREET 90 DEG. (12.9590)				1					1	2		
	5138301	ELBOW ASSY., 3/4" TUBE SEALASTIC 90 DEG. (12.9425)	1	1										
	108687	ELBOW, 1" STREET 90 DEG. (12.9590)											1	
	217986	ELBOW, 1"X3/4" PIPE RED. 90 DEG. (12.9600)											1	
	5138308	NIPPLE ASSY., 3/8" TUBE SEALASTIC (12.9415)	1	1										
	442323	CONNECTOR, 3/8" INV. FL. TUBE (12.9460)			2									
	8924208	CONNECTOR, 1 5/16"X1" PIPE TAP (9.1720)											1	
		= NOT SERVICED; CUSTOMER TO FABRICATE FROM BULK MATERIAL SHOWN IN 12.8550.												
		+ OBSOLETE.												
4.3020 - TUBE, OIL FILTER OUTLET														
OA	5122633	TUBE,3-53	1											
OA	5122679	TUBE,3-53		1										
OA	3248643	HOSE ASSY.,2-53 (3/8" I.D.X18" L.) (4.7100)			1			1						
	5120684	HOSE ASSY.,6V53 (5/8" I.D.X 17 3/4" L.)												
	5176698	HOSE ASSY., 6,8V53 (5/8" I.D.X23 5/8" L.) (8.3810)				1				1			1	

4.3000A OIL FILTER LINES

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	7 8	7 9	8 9	9 2	9 3	9 5	9 8	1 0 2	1 0 5	1 0 8	1 1 0	1 1 4		
4.3020 - TUBE, OIL FILTER OUTLET (CONT'D)																
10A	5120028	HOSE ASSY., 6V53 (5/8" I.D. X 41 1/2" L.)									1					
10A	5177649	HOSE ASSY., 6V53 (7/8" I.D. X 38 3/32" L.) (9.1720)											1			
	144613	NIPPLE, 3/4" X 1 3/8" PIPE (12.9560)											1			
	5176528	RING, SEAL 3/4" TUBE SEALASTIC (12.9435)	2	2												
	143338	ELBOW, 3/8" INV. FL. TUBE 45 DEG. (12.9480)			1			2								
	193004	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9480)			1											
	140798	ELBOW, 3/4" STREET 45 DEG. (12.9590)	1	1						1						
	141621	ELBOW, 3/4" STREET 90 DEG. (IN ADAPTOR) (12.9590)				1					1	2				
	5138301	ELBOW ASSY., 3/4" TUBE SEALASTIC 90 DEG. (12.9425)	2	2												
	108687	ELBOW, 1" STREET 90 DEG. (12.9590)											1			
	217986	ELBOW, 1" X 3/4" PIPE RED. 90 DEG. (12.9600)											1			
	5176705	ELBOW (AT FILTER) (8.3800)				1				1	1	1				
	5138308	NIPPLE ASSY., 3/8" TUBE SEALASTIC (12.9415)	1	1												
	8924208	CONNECTOR (1 5/16" X 1" PIPE TAP) (9.1720)											1			
4.3025 - ADAPTOR, OIL FILTER TUBE-REMOTE MOUNTED FILTER																
10A	5121499	@ ADAPTOR, 3-53	1	1												
	5128438	+ ADAPTOR, 6.8V53 (AT FILTER)				1						1				
10A	5127827	# ADAPTOR, 6.8V53 (AT BLOCK)				1	1			1	1	1	1			
	5134304	ADAPTOR, 6V53 (AT BLOCK)												1		
10A	5134303	ADAPTOR, 3-4-53							1							
	5121182	PLUG, 1/4" PIPE (2.4015)												1		
10A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	4	4		4	4		4	4	4	4		4		
	454906	* BOLT, 3/8"-16X1 1/2" (12.9001)								4				4		
	103341	WASHER, 3/8" (12.9190)												4		
	103321	LOCKWASHER, 3/8" (12.9200)	4	4		4	4		4	8	4	4	AR	8		
@ NOT SERVICED; WHEN REPLACEMENT IS REQUIRED CONVERT TO DIRECT MOUNTED OIL FILTER, 4.2000A, TYPE 155 (LD ENGINE) OR TYPE 156 (RB ENGINE).																
# NOT SERVICED. USE 5134302 PLUS 5198303 VALVE KIT (4.2485).																

4.3000A OIL FILTER LINES

PART
FIG . . . NUMBER NAME AND DESCRIPTION

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 8	7 9	8 9	9 2	9 3	9 5	9 8	1 0 2	1 0 5	1 0 8	1 1 0	1 1 4
		4.3025 - ADAPTOR, OIL FILTER TUBE (TO OIL COOLER ADAPTOR) (CONT'D)												
		* USE 186622 BOLT FOR LATE DESIGN ADAPTOR WITH .600" THICK BOLT FLANGE.												
		+ OBSOLETE												
		4.3027 - GASKET, OIL FILTER TUBE ADAPTOR												
	5121205	GASKET,3,4-53 (4.2350)	1	1					1					
	5128039	GASKET,6,8V53 (4.2350)				1	1			1	1	1	1	
	5133263	GASKET,6V53												1
		4.3045 - CLIP, OIL FILTER TUBE												
IOA	5181415	CLIP,6,8V53 (5.5390)											2	
IOA	5151189	CLIP,2,3-53 (3/4" TUBE) (4.8040)	2	1				1						
IOA	5186803	CLIP,3-53,6V53 (3/4" TUBE) (7.7380)		1										
IOA	5165244	CLIP,4-53,6V53 (7/8" TUBE) (4.8040)									2	2		
IOA	5169317	+ CLIP,6V53 (7/8" TUBE) (4.8040)									1			
IOA	5177001	CLIP,6V53 (7/8" TUBE) (8.3801)									1			
IOA	179816	BOLT, 5/16"-18X3/4" (12.9001)									1			
IOA	186629	BOLT, 5/16"-18X1" (12.9001)										1		
IOA	179839	BOLT, 3/8"-16X1" (12.9001)	1	1										
IOA	186622	BOLT, 3/8"-16X1 1/4" (12.9001)											1	
	120393	WASHER, 5/16" (12.9190)									1	1		
	103320	LOCKWASHER, 5/16" (12.9200)									1	1		
	103321	LOCKWASHER, 3/8" (12.9200)	1	1									1	
IOA	120376	NUT, 5/16"-18 (12.9120)									1	1		
IOA	102635	NUT, 3/8"-16 (12.9120)	1	1									1	
		+ NOT SERVICED, USE ONE (1) EACH OF 5140903 AND 120393.												
		4.3050 - BRACKET, OIL FILTER TUBE CLIP												
	5176400	BRACKET,3-53 (MOUNTS UNDER FLYWHEEL HOUSING ADAPTOR BOLT) (4.8010)	1	1										
	5155464	BRACKET,6V53 (7.1582)										1		
	5181325	BRACKET,6V53 (4.8042)											1	
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)											1	
	103320	LOCKWASHER, 5/16" (12.9200)											1	
		4.3055 - VALVE, OIL FILTER TUBE ADAPTOR BY-PASS												
	5575088	VALVE (4.2485)				1	1			1	1	1	1	
	5133431	# VALVE (4.2485)							1					1
		# PART OF VALVE KIT 5198303												

4.3000A OIL FILTER LINES

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 8	7 9	8 9	9 2	9 3	9 5	9 8	1 0 2	1 0 5	1 0 8	1 1 0	1 1 4
		4.3057 - SPRING, OIL FILTER TUBE ADAPTOR BY-PASS VALVE												
5575680		SPRING (4.2486)				1	1			1	1	1	1	
5134477	#	SPRING (4.2486)							1					1
		# PART OF 5198303 VALVE KIT (4.2485).												
		4.3060 - RETAINER, OIL FILTER TUBE ADAPTOR BY-PASS SPRING												
5574736		RETAINER (4.2488)				1	1			1	1	1	1	
5134456	#	RETAINER (4.2488)							1					1
450865	= #	+ SCREW, #12-24X3/4 (12.9065)				1	1		1	1	1	1	1	1
160221	#	* SCREW, #12-24X1/2" CR. REC. HD. (12.9065)				1	1		1	1	1	1	1	1
		# PART OF 5198303 VALVE KIT (4.2485).												
		+ EARLY ENGINES												
		* LATE ENGINES												
		= NOT SERVICED, USE 160221.												

4.3000A OIL FILTER LINES

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 9	1 2 2	1 2 4	1 2 5	1 2 8	1 3 1	1 3 2	1 3 3	1 3 5	1 3 8	1 3 9	1 4 0
4.3001 - TUBE, OIL FILTER INLET														
	5176698	HOSE ASSY., 8V53 (5/8" I.D. X 23 5/8" L.)										1		
	5112421	HOSE ASSY., 8V53 (5/8" I.D. X 27" L.) (3.5505)	1											
OA	5138048	HOSE ASSY., 4-53 (5/8" I.D. X 35" L.)									1			
	5120029	HOSE ASSY., 6V53 (5/8" I.D. X 36" L.) (3.5505)		1										
	5125788	HOSE ASSY., 6V53 (7/8" I.D. X 23 1/2" L.)								1				
	5177502	HOSE ASSY., 6V53 (7/8" I.D. X 28 1/2" L.)					1							
	5137686	HOSE ASSY., 8V53 (7/8" I.D. X 32" L.)											1	
	5176705	ELBOW (AT FILTER) (8.3800)	1	1		2						1		
	141621	ELBOW, 3/4" STREET 90 DEG. (12.9590)	1	2							1	1		
	108687	ELBOW, 1" STREET 90 DEG. (12.9590)					1							
	5177664	CONNECTOR, 1" FL. TUBE									2			
	8924207	CONNECTOR, 1" FL. TUBE (4.4330)					1							
	8924208	CONNECTOR, 1 5/16" X 1" PIPE TAP (9.1720)											1	
4.3020 - TUBE, OIL FILTER OUTLET														
	5176698	HOSE ASSY., 6, 8V53 (5/8" I.D. X 23 5/8" L.) (8.3810)	1											
	5112421	HOSE ASSY., 8V53 (5/8" I.D. X 27" L.)										1		
	5178023	HOSE ASSY., 3-53 (5/8" I.D. X 29 1/2" L.)				2	2							
	5120029	HOSE ASSY., 8V53 (5/8" I.D. X 36" L.) (3.5505)		1										
	5138319	HOSE ASSY., 4-53 (5/8" I.D. X 40" L.)										1		
	5137643	+ HOSE ASSY., 6V53 (7/8" I.D. X 2" L.)					1							
	5186232	HOSE ASSY., 6V53 (7/8" I.D. X 23 1/2" L.)									1			
	5132281	HOSE ASSY., 8V53 (7/8" I.D. X 33 1/2" L.)												1
	141621	ELBOW, 3/4" STREET 90 DEG. (12.9590)	1		2	2					1	1		
	108687	ELBOW, 1" STREET 90 DEG. (12.9590)					1							
	5176705	ELBOW (AT FILTER) (8.3800)	1		2							1		
	5177664	CONNECTOR, 3/4" PIPE		1							2			
	8924207	CONNECTOR, 1" FL. TUBE (4.4330)					1							
	8924208	CONNECTOR (1 5/16" X 1" PIPE TAP) (9.1720)											1	
		+ OBSOLETE.												
4.3025 - ADAPTOR, OIL FILTER TUBE-REMOTE MOUNTED FILTER														
OA	5128438	* ADAPTOR, 6, 8V53 (AT FILTER)	1	1									1	
OA	5127827	@ ADAPTOR, 6, 8V53 (AT BLOCK)	1											
OA	5134303	ADAPTOR, 3, 4-53										1		

4.3000A OIL FILTER LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 1 9	1 2 2	1 2 4	1 2 5	1 2 8	1 3 1	1 3 2	1 3 3	1 3 5	1 3 8	1 3 9	1 4 0
		4.3025 - ADAPTOR, OIL FILTER TUBE (TO OIL COOLER ADAPTOR) (CONT'D)												
	5134302	ADAPTOR,6.8V53 (AT BLOCK) (90 DEG.)		1			1		1	1		1	1	
	5136287	* ADAPTOR ASSY.,3-53			1	1								
	5134303	ADAPTOR,4-53 (AT COOLER)						1						1
10A	5115214	PLUG, 1/4" PIPE				1								
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	4	4	4	4	4	4			4			4
	454906	# BOLT, 3/8"-16X1 1/2" (12.9001)							4	4		4	4	
	5157244	BOLT, 3/8"-16X1 3/4"		2										
	186282	BOLT, 3/8"-16X3 1/4" (12.9001)										4		
	103321	LOCKWASHER, 3/8" (12.9200)	4	6	4	4	4	4	4	4	4	8	4	4
	102635	NUT, 3/8"-16 (12.9120)										4		
		@ NOT SERVICED. USE 5134302 PLUS 5198303 VALVE KIT (4.2485).												
		# USE 186622 BOLT FOR LATE DESIGN ADAPTOR WITH .600" THICK BOLT FLANGE.												
		* OBSOLETE												
		4.3027 - GASKET, OIL FILTER TUBE ADAPTOR												
	5121205	GASKET,3,4-53 (4.2350)			1	1		1			1			1
	5128039	GASKET,6.8V53 (4.2350)	1	1										
	5137549	GASKET,6V53 (4.2350)					1		1	1		1	1	
		4.3045 - CLIP, OIL FILTER TUBE												
	5187661	CLIP,6V53 (4.8183)								1				
	5124227	CLIP,4-53									2			
	5186803	CLIP,3-53,6V53 (3/4" TUBE) (7.7380)					2							
10A	5165244	CLIP,4-53,6V53 (7/8" TUBE) (4.8040)									2			
	5174091	CLIP,8V53 (7/8" TUBE)		2										
	5183247	CLIP,8V53 (1" TUBE X 1/2" BOLT) (8.3801)	2									2	2	
	5182874	= CLIP,8V53 (1" TUBE X 5/8" BOLT)	2											
	5184291	CLIP,6V53 (1 1/4" TUBE)					2							
10A	186629	BOLT, 5/16"-18X1" (12.9001)									2			
10A	179839	BOLT, 3/8"-16X1" (12.9001)								1			1	
	186627	BOLT, 3/8"-24X1" (12.9001)						1						
	181374	BOLT, 3/8"-24X1 1/2" (12.9001)						1						
	106340	BOLT, 1/2"-12X7/8" (12.9001)		1										
	122408	BOLT, 1/2"-13X1" (12.9001)	2									2		
	428204	BOLT, 5/8"-11X1" (12.9001)	1											
	103341	WASHER, 3/8" (12.9190)						1		1			1	
	103343	WASHER, 1/2" (12.9190)	2									2		
	103345	WASHER, 5/8" (12.9190)	1											

4.3000A OIL FILTER LINES

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 1 9	1 2 2	1 2 4	1 2 5	1 2 8	1 3 1	1 3 2	1 3 3	1 3 5	1 3 8	1 3 9	1 4 0
		4.3045 - CLIP, OIL FILTER TUBE (CONT'D)												
	103320	LOCKWASHER, 5/16" (12.9200)									2			
	103321	LOCKWASHER, 3/8" (12.9200)					2			1			1	
	103323	LOCKWASHER, 1/2" (12.9200)		1										
10A	120376	NUT, 5/16"-18 (12.9120)									2			
10A	102635	NUT, 3/8"-16 (12.9120)								1			1	
	117049	NUT, 3/8"-24 (12.9120)					2							
		= REQUIRED IN PLACE OF 5183247 CLIP FOR SOME APPLICATIONS.												
		4.3050 - BRACKET, OIL FILTER TUBE CLIP												
	5155464	BRACKET, 6V53 (7.1582)					1							
	5173022	BRACKET, 6V53					1							
	5131549	BRACKET, 4-53									2			
	5124780	BRACKET, 6, 8V53								1			1	
	103341	WASHER, 3/8" (12.9190)								1			1	
	179839	BOLT, 3/8"-16X1" (12.9001)								1				
	103321	LOCKWASHER, 3/8" (12.9200)								1				
		4.3055 - VALVE, OIL FILTER TUBE ADAPTOR BY-PASS												
	5133431	# VALVE			1		1	1	1	1	1		1	1
		# PART OF VALVE KIT 5198303 (4.2485).												
		4.3057 - SPRING, OIL FILTER TUBE ADAPTOR BY-PASS VALVE												
	5575680	SPRING (4.2486)	1											
	5134477	# SPRING (4.2486)			1	1	1	1	1	1	1		1	1
		# PART OF 5198303 VALVE KIT (4.2485).												
		4.3060 - RETAINER, OIL FILTER TUBE ADAPTOR BY-PASS SPRING												
	5574736	RETAINER (4.2488)	1											
	5134456	# RETAINER (4.2488)			1	1	1	1	1	1	1		1	1
	450865	= # + SCREW, #12-24X3/4 (12.9065)	1		1	1	1	1	1	1	1		1	1
	160221	# * SCREW, #12-24X1/2" CR. REC. HD. (12.9065)	1		1	1	1	1	1	1	1		1	1
		# PART OF 5198303 VALVE KIT (4.2485).												

4.3000A OIL FILTER LINES

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		1 1 9	1 2 2	1 2 4	1 2 5	1 2 8	1 3 1	1 3 2	1 3 3	1 3 5	1 3 8	1 3 9	1 4 0
	4.3060	RETAINER, OIL FILTER TUBE ADAPTOR BY-PASS SPRING (CONT'D)											
		+ EARLY ENGINES											
		* LATE ENGINES											
		= NOT SERVICED, USE 160221.											

4.3000A OIL FILTER LINES

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			1 4 1	1 4 2	1 4 3	1 4 4	1 4 5	1 4 6	1 4 9	1 5 5	1 5 7	1 6 0	1 6 2	1 6 7
		4.3001 - TUBE, OIL FILTER INLET												
	5147585	HOSE ASSY., 6V53 (#16X17"L) (TEFLON)												1
10A	5144728	HOSE ASSY., 6V53 (#16X23 1/2"L) (TEFLON)											1	
	5122417	HOSE ASSY., 3-53 (5/8" I.D. X 21"L) (9.9630)	1											
	5111112	# HOSE ASSY., 3-53 (5/8" I.D. X 31"L) (8.3820)				1								
	5138375	HOSE ASSY., 6V53 (7/8" I.D. X 18 1/2" L.) (4.3020)										1		
	5137686	HOSE ASSY., 6, 8V53 (7/8" I.D. X 32"L)					1	1	1					
	5137869	HOSE ASSY., 6V53 (7/8" I.D. X 40 1/2" L.)	1		1									
	5110932	HOSE ASSY., 6V53 (7/8" I.D. X 43 1/2" L.) (4.3020)		1										
	5185930	HOSE, FLEX., 3-4-53 (27 1/2") (12.4375)								1	1			
	144613	NIPPLE, 3/4" X 1 3/8" PIPE (12.9560)		1										
	140798	ELBOW, 3/4" STREET 45 DEG. (12.9590)	1			1				1				
	141621	ELBOW, 3/4" STREET 90 DEG. (12.9590)	1			1				1	2			
	144116	ELBOW, 1" STREET 45 DEG. (12.9590)										1		
	108687	ELBOW, 1" STREET 90 DEG. (12.9590)	1		2		2	4						
	217986	ELBOW, 1" X 3/4" PIPE RED. 90 DEG. (12.9600)							1					
	5177664	CONNECTOR, 3/4" PIPE (8.3800)	2			1								
	8924208	CONNECTOR, 1 5/16" X 1" PIPE TAP (9.1720)		1	1				1		1			
	9402713	CONNECTOR, 1 5/16"-12X1 1/2" PIPE (12.9380)					1		1			1		
	5111798	PLUG, 1" PIPE (12.9550)					1						2	2
		# NOT SERVICED; USE 5199578 HOSE, (2) 5144522 FITTINGS AND (2) 2488023 CLIPS.												
		4.3020 - TUBE, OIL FILTER OUTLET												
10A	5144727	HOSE ASSY., 6V53 (#16X18 1/2"L) (TEFLON)											1	
	5147586	HOSE ASSY., 6V53 (#16X22"L) (4.4355)												1
	5120510	HOSE ASSY., 3-53 (5/8" I.D. X 23 1/2" L) (3.5505)				1				1				
	5138048	HOSE ASSY., 3-53 (5/8" I.D. X 35"L)	1											
	5120028	HOSE ASSY., 4-53 (5/8" I.D. X 41 1/2" L) (3.5505)									1			
	5118467	HOSE ASSY., 6V53 (7/8" I.D. X 14 1/4" L.) (9.1720)										1		
	5137686	HOSE ASSY., 6, 8V53 (7/8" I.D. X 32"L) (4.3001)							1					

4.3000A OIL FILTER LINES

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		1 4 1	1 4 2	1 4 3	1 4 4	1 4 5	1 4 6	1 4 9	1 5 5	1 5 7	1 6 0	1 6 2	1 6 7
4.3020 - TUBE, OIL FILTER OUTLET (CONT'D)													
	5132281					1	1						
	5177649												
	144613		1	1									
	140798		1										
	141621	1											
	108687	2			2			2		1			
	217986		1	1		1	1	1					
	5176705		1						2	2			
	5177664	2			2				1				
	8924208												
	9402713		1	1		1	1	1			1		
	5142470											2	2
	5111798					1							1
4.3025 - ADAPTOR, OIL FILTER TUBE-REMOTE MOUNTED FILTER													
	5134303	1			1				1	1			
	5128438		1										
	5134304			1		1	1	1					
	5134302												
	5147341											1	1
10A	186622	4		4			4	4	4	4	4	4	1
	186628		4		4	4							
	179846												4
	103321	4	4	4	4	4	4	4	4	4	4	4	4
4.3027 - GASKET, OIL FILTER TUBE ADAPTOR REMOTE MOUNTED FILTER													
	5121205	1			1				1	1			
	5137549		1										
	5133263			1		1	1	1			1	1	1
4.3045 - CLIP, OIL FILTER LINE													
	5124227	1											
10A	5165244	2				3			2	3			
10A	5181415		2	2	2								
	5144934												
	5144977												1
												2	

4.3000A OIL FILTER LINES

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 4 1	1 4 2	1 4 3	1 4 4	1 4 5	1 4 6	1 4 9	1 5 5	1 5 7	1 6 0	1 6 2	1 6 7
		4.3045 - CLIP, OIL FILTER TUBE (CONT'D)												
	181598	BOLT, 5/16"-24X7/8" (12.9001)					3			2	3			
	179839	BOLT, 3/8"-16X1" (12.9001)											1	
10A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)		1	1	1								
	181361	BOLT, 3/8"-24X7/8" (12.9001)												1
	120393	WASHER, 5/16" (12.9190)					3			2	3			
	103341	WASHER, 3/8" (12.9190)											1	
	103320	LOCKWASHER, 5/16" (12.9200)					AR			AR	AR			
	103321	LOCKWASHER, 3/8" (12.9200)		1	1	1							1	1
	114493	NUT, 5/16"-24 (12.9120)					3			2	3			
10A	102635	NUT, 3/8"-16 (12.9120)		1	1	1							1	
	117049	NUT, 3/8"-24 (12.9120)												1
		4.3050 - BRACKET, OIL FILTER TUBE CLIP												
	5181325	BRACKET (4.8042)		1	1									
	5173022	BRACKET (5.5379)					3			2	3			
	5124780	BRACKET (4.1510)											1	
	5126358	BRACKET (4.6040)												1
	186629	BOLT, 5/16"-18X1" (12.9001)					3			2				
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)		1	1	1								
	179839	BOLT, 3/8"-16X1" (12.9001)											1	
	120393	WASHER, 5/16" (12.9190)					3			2				
	103341	WASHER, 3/8" (12.9190)											1	
	103320	LOCKWASHER, 5/16" (12.9200)		AR	AR	AR	AR			AR				
	103321	LOCKWASHER, 3/8" (12.9200)											1	
		4.3055 - VALVE, OIL FILTER TUBE ADAPTOR BY-PASS												
	5133431	# VALVE (4.2485)	1	1	1	1	1	1	1	1	1	1	1	1
		# PART OF 5198303 VALVE KIT (4.2485).												
		4.3057 - SPRING, OIL FILTER TUBE ADAPTOR BY-PASS VALVE												
	5134477	# SPRING (4.2486)	1	1	1	1	1	1	1	1	1	1	1	1
		# PART OF 5198303 VALVE KIT (4.2485).												
		4.3060 - RETAINER, OIL FILTER TUBE ADAPTOR BY-PASS VALVE SPRING												
	5134456	# RETAINER (4.2488)	1	1	1	1	1	1	1	1	1	1	1	1
	450865	# = + SCREW, #12-24 X 3/4 RD. HD. (12.9065)	1	1	1	1	1	1	1	1	1	1	1	1
	160221	# * SCREW, #12-24X1/2" CR. REC. HD. (12.9065)	1	1	1	1	1	1	1	1	1	1	1	1

DETROIT DIESEL

53 MPC ENGINES

4.3000A OIL FILTER LINES

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

TYPES

4.3080 - RETAINER, OIL FILTER TUBE ADAPTOR
BY-PASS VALVE SPRING (CONT'D)# PART OF 5198303 VALVE KIT (4.2485).
+ EARLY ENGINES
* LATE ENGINES
= NOT SERVICED, USE 160221.

1 4 1	1 4 2	1 4 3	1 4 4	1 4 5	1 4 6	1 4 9	1 5 5	1 5 7	1 6 0	1 6 2	1 6 7								
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4.3000A OIL FILTER LINES

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION													
		1 6 9	1 7 5	1 7 7	1 7 9	1 8 0	1 8 1	1 8 2	1 8 3	1 8 4	1 8 5	1 8 8	1 8 9	1 9 1	
4.3001 - TUBE, OIL FILTER INLET															
5199722	+ HOSE, BULK #16 (CUT L. 16") (12.8550)		1												
5199722	+ HOSE, BULK #16 (CUT L. 35") (12.8550)			1				1			1				
5147585	HOSE ASSY., 6V53 (#16 X 17" L.) (TEFLON)				1										
5120510	HOSE ASSY., 5/8"X31" L. (3.5505)								1						
5144728	HOSE ASSY., 6V53 (#16 X 23 1/2") (TEFLON)						1								
5120028	HOSE ASSY., 5/8"X41 1/2" (3.5505)									1					
5125788	HOSE ASSY., 6V53 (7/8" I.D. X 23 1/2") (9.1720)					1									
5199727	FITTING HOSE (12.8552)		2	1				1				1			
5197729	FITTING HOSE (12.8552)			1				1				1			
8924208	CONNECTOR, 1 5/16" X 1" PIPE TAP (9.1720)					1									
144045	BUSHING, 1/2"X1/4" RED (12.9570)		1												
144061	BUSHING, 1"X1/2" RED (12.9570)		1												
128003	BUSHING, 1"X3/4" RED (12.9570)								1	1	1			1	
444040	ELBOW, 1/4"-18 STREET 90 DEG. (12.9590)		1												
9402869	ELBOW, 1" FL. TUBE 90 DEG. (12.9390)		2	1				1				1		1	
2492119	ELBOW, 3/4" X 1" PIPE 90 DEG. (4.4330)			1				1		1	1			1	
5176705	ELBOW, 3/4"-90 DEG. (8.3800)								1						
5121182	PLUG, 1/4" PIPE (2.4015)		1							1	1				
+ BULK HOSE, CUT TO LENGTH SHOWN.															
4.3020 - TUBE, OIL FILTER OUTLET															
5115763	HOSE ASSY., 6V53 (7/8" I.D. X 42 1/2" L.)	1													
5199722	HOSE, BULK #16 (CUT L. 16") (12.8550)		1												
5199722	HOSE, BULK #16 (CUT L. 35") (12.8550)			1				1				2			
5147586	HOSE ASSY., 6V53 (#16 X 22" L.) (4.4355)				1										
5185930	HOSE ASSY., 5/8"X27 1/2" (12.4375)								1	1					
5144727	HOSE ASSY., 6V53 (#16 X 18 1/2")						1								
5186232	HOSE ASSY., 6V53 (7/8" X 18 1/2")					1									
5199727	FITTING HOSE (12.8552)		2	1				1				2			
5199729	FITTING HOSE (12.8552)			1				1				2			
144061	BUSHING, 1"X1/2" RED (12.9570)		1												
144045	BUSHING, 1/2"X1/4" RED (12.9570)		1												
128003	BUSHING, 1"X3/4" RED (12.9570)			1					1	1	1			1	
5101020	STRAP, HOSE (2.5255)			1				1				1			
5142470	TUBING, WRAP (7.7020)				1										
444040	ELBOW, 1/4"-18 STREET 90 DEG. (12.9590)		1												
119099	ELBOW, 3/4", 90 DEG. (12.9600)			1				1				1		1	
2492119	ELBOW, 3/4" X 1" PIPE, 90 DEG. (4.4330)				1			1			1			1	

4.3000A OIL FILTER LINES

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	1 6 9	1 7 5	1 7 7	1 7 9	1 8 0	1 8 1	1 8 2	1 8 3	1 8 4	1 8 5	1 8 8	1 8 9	1 9 1
	4.3020	TUBE, OIL FILTER OUTLET (CONT'D)													
	9402869	ELBOW, 1" FL. TUBE 90 DEG. (12.9390)		2											
	5176705	ELBOW, 3/4"-90 DEG. (5.5374)								1	1				
	141621	ELBOW, 3/4" STREET 90 DEG. (12.9590)								1	1				
	9402713	CONNECTOR, 1" TUBE (12.9380)			1	1		1	1						
	8924208	CONNECTOR, 1 5/16"X1" PIPE TAP (9.1720)	1				1								
	9402713	CONNECTOR, 1" TUBE (12.9380)				1		1				1			1
	144613	NIPPLE, 3/4" X 1 3/8" PIPE (12.9560)			1				1			1			1
	5121182	PLUG, 1/4" PIPE (2.4015)		1											
	5111798	PLUG, 1" PIPE (12.9550)								1					
	4.3025	ADAPTOR, OIL FILTER TUBE-REMOTE MOUNTED FILTER													
	5134304	ADAPTOR, 6, 8V53 (TO BLOCK)	1	1								1			1
	5134302	ADAPTOR, 6, 8V53								1	1		1		
	5101866	ADAPTOR, 6V53											1		
10A	5121182	PLUG, 1/4" PIPE (2.4015)	1												
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	4							4	4	4	3	4	4
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)		4											
	103341	WASHER, 3/8" (12.9190)	4	4								4			4
	103321	LOCKWASHER, 3/8" (12.9200)	4	4						4	4	4	3	4	4
	138242	SCREW, 3/8"-16X1" (12.9027)											1		
	4.3027	GASKET, OIL FILTER TUBE ADAPTOR REMOTE MOUNTED FILTER													
	5133263	GASKET, 6, 8V53 (4.3027)	1	1								1			1
	5121205	GASKET (4.2350)								1	1		1		
	5137549	GASKET (4.2350)												1	
	4.3045	CLIP, OIL FILTER LINE													
	5144934	CLIP, #16 HOSE (TEFLON COATED) (4.8183)				1									
	5187661	CLIP, 1 1/4" HOSE (4.8183)					2								
	5144977	CLIP, #16 (TEFLON COATED) (4.8183)					2								
	181361	BOLT, 3/8"-24 X 7/8" (12.9001)				1									
	5165244	CLIP, 7/8" (4.8040)								3	3				
	179839	BOLT, 3/8"-16 X 1" (12.9001)					1	1							
	181596	BOLT, 5/16"-24X7/8" (12.9001)								3	3				
	103341	WASHER, 3/8" (2.9190)					1	1							
	120393	WASHER, 5/16" (12.9190)								3	3				
	103321	LOCKWASHER, 3/8" (12.9200)				1	1	1							
	103320	LOCKWASHER, 5/16" (12.9200)								3	3				
	117049	NUT, 3/8"-24 (12.9120)				1									
	102635	NUT, 3/8"-16 (12.9120)					1	1							
	114493	NUT, 5/16"-24 (12.9120)								3	3				
	4.3050	BRACKET, OIL FILTER LINE CLIP													
	5126358	BRACKET (4.6040)				1									
	5124780	BRACKET (4.1510)					1	1							
	5173022	BRACKET (5.5374)								3	3				
	179839	BOLT, 3/8"-16 X 1 (12.9001)					1	1							
	103341	WASHER, 3/8" (12.9190)					1	1							
	103321	LOCKWASHER, 3/8" (12.9200)					1	1							

DETROIT DIESEL

53 MPC ENGINES

4.3000A OIL FILTER LINES

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION													
		1 6 9	1 7 5	1 7 7	1 7 9	1 8 0	1 8 1	1 8 2	1 8 3	1 8 4	1 8 5	1 8 8	1 8 9	1 9 1	
	4.3055 - VALVE, OIL FILTER TUBE ADAPTOR BY-PASS														
5133431	# VALVE (4.2485) # PART OF 5198303 VALVE KIT (4.2485).	1	1						1	1	1	1	1	1	
	4.3057 - SPRING, OIL FILTER TUBE ADAPTOR BY-PASS VALVE														
5134477	# SPRING (4.2486) # PART OF 5198303 VALVE KIT (4.2485).	1	1						1	1	1	1	1		
	4.3060 - RETAINER, OIL FILTER TUBE ADAPTOR BY-PASS VALVE SPRING														
5134456	# RETAINER (4.2488) # = + SCREW, #12-24 X 3/4 RD. HD. (12.9065)	1	1						1	1	1	1	1		
450865															
160221	# * SCREW, #12-24X1/2" CR. REC. HD. (12.9065) # PART OF 5198303 VALVE KIT (4.2485). + EARLY ENGINES * LATE ENGINES = NOT SERVICED, USE 160221.	1	1						1	1	1	1	1		

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

TYPES

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DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER

			TYPES												
PART	FIG	NUMBER	NAME AND DESCRIPTION	2 2 6	2 3 0	2 3 1	2 3 8	2 3 9	2 5 4	2 6 0	2 6 8	2 6 9	2 7 0	2 7 1	2 7 2
4.4001 - CORE ASSY., OIL COOLER															
4A		8501323	CORE ASSY.,2,3,4-53 (4 PLATE)			1				1					
4A		8501328	CORE ASSY.,3-53 (6 PLATE)		1		1								
4A		8539953	CORE ASSY.,3,4-53 (8 PLATE)	1				1			2				
4D		5102389	CORE ASSY.,3,4-53 (8 PLATE)						1			1	1	1	1
4D		186618	BOLT, 5/16"-18X5/8" (12.9001)						8			8	8	8	8
4D		103320	LOCKWASHER, 5/16" (12.9200)						8			8	8	8	8
4.4030 - GASKET, OIL COOLER CORE INNER															
4A,B,C		5150155	GASKET	1	1	1	1	1		1	2				
4D		5120896	GASKET,3,4-53						1			1	1	1	1
4.4040 - GASKET, OIL COOLER CORE OUTER															
4A,B,C		5102506	GASKET	1	1	1	1	1		1	2				
4.4050 - HOUSING, OIL COOLER															
4A		5119453	HOUSING,4-53	1											
4A		5119451	HOUSING,3-53		1										
4A		5119449	HOUSING,2-53			1									
4A		5119452	HOUSING,3-53				1								
4A		5119454	HOUSING,4-53					1							
4D		5121183	HOUSING,3,4-53						1			1			1
4A		5119450	* HOUSING,2-53							1					
4A		5116492	HOUSING,4-53								1				
4D		5122566	HOUSING,3,4-53										1	1	
4A		103647	DRAINCOCK, 1/4" (12.9510)	1	1	1	1	1			1				
4A		148344	DRAINCOCK, 1/4" (12.9510)							1					
4A		179819	BOLT, 5/16"-18X1 1/8" (12.9001)						1			1	1	1	1
4A		179828	BOLT, 5/16"-18X2 1/2" (12.9001)			7									
4A		179830	BOLT, 5/16"-18X3" (12.9001)		7		7								
4A		186270	BOLT, 5/16"-18X3 1/2" (12.9001)	8	1	1	1	8		1					
4A		186274	BOLT, 5/16"-18X5" (12.9001)						1			1	1	1	1
4A		103320	LOCKWASHER, 5/16" (12.9200)	8	8	8	8	8	2	8		2	2	2	1
* OBSOLETE.															
4.4055 - GASKET, OIL COOLER HOUSING TO BLOCK															
4D		5116357	GASKET,3,4-53 (1.1070)						1			1	1	1	1
4.4060 - COVER, OIL COOLER HOUSING															
10B		5188862	+ COVER,3,4-53								1				
4B		446597	BOLT, 5/16"-18X6 1/2" (12.9001)								8				
4B		103320	LOCKWASHER, 5/16" (12.9200)								8				
+ NOT SERVICED, FOR SERVICE USE 5107975 AND INCLUDE 2-5142549 PLUGS.															

4.4000A OIL COOLER AND MARINE GEAR LINES

PART		NAME AND DESCRIPTION	TYPES											
FIG	NUMBER		2 2 6	2 3 0	2 3 1	2 3 8	2 3 9	2 5 4	2 6 0	2 6 8	2 6 9	2 7 0	2 7 1	2 7 2
4.4110 - ADAPTOR, OIL COOLER														
4A,B	5123413	% ADAPTOR,2,3,4-53	1	1	1				1					
4A,B	5123414	# ADAPTOR,2,3,4-53				1	1							
4A,B	5121227	ADAPTOR,2-53						1						
4A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	4	4	4	4	4		4					
4A	186612	BOLT, 3/8"-16X1 3/8" (12.9001)						4						
	179847	BOLT, 3/8"-16X2" (12.9001)	2	2	2	2	2		2					
4A	103321	LOCKWASHER, 3/8" (12.9200)	6	6	6	6	6		4	6				
% NOT SERVICED, FOR SERVICE USE 5103907 AND 1-5103906 GASKET.														
# NOT SERVICED, FOR SERVICE USE 5103855 AND 1-5103906 GASKET.														
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK														
4A,B	8923738	GASKET,2,3,4-53	3	3	2	3	3		2	3				
4A,B	5119286	GASKET,2,3,4-53	1	1	1	1	1		1	1				
4A	5116416	GASKET,2-53							1					
4.4213 - HOSE, OIL COOLER WATER INLET														
4D	5116093	* HOSE, 1 7/8"X4 3/4" CUT L. (5.3422) * NOT SERVICED; FOR REPLACEMENT USE 5199777 AND CUT TO SUIT.						1			1	1	1	1
4.4214 - CLAMP, OIL COOLER WATER INLET HOSE														
4D	8920537	CLAMP,3,4-53 1 9/16"-2 1/2" DIA. (12.9660)						2			2	2	2	2
4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET														
4D	5123320	HOSE ASSY., 3, 4-53 (38"X13/32" I.D.)						1						
4D	5123317	HOSE ASSY., 4-53 (44"X13/32" I.D.)						1						1
4D	5123318	HOSE ASSY.,3-53 (47"X13/32" I.D.)								1				
4D	5123316	HOSE ASSY., 3-53 (35 1/2"X13/32" I.D.)										1	1	
4D	120142	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9390)						1		1	1	1	1	
4D	8924150	ELBOW, 1/2" FL. TUBE 90 DEG. (12.4085)						1			1	1		
4D	8924201	ELBOW, 1/2" FL. TUBE 45 DEG. (12.4090)												2
4D	120278	NIPPLE, 3/8"X2 1/2" PIPE (12.9560)						1		1	1	1	1	
4D	144603	NIPPLE, 3/8"X3" PIPE (12.9560)								1				
	8924201	ELBOW, 1/2" FL. TUBE 45 DEG. (12.4090)								1				

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
..FIG ..	NUMBER	NAME AND DESCRIPTION	2 2 6	2 3 0	2 3 1	2 3 8	2 3 9	2 5 4	2 6 0	2 6 8	2 6 9	2 7 0	2 7 1	2 7 2
4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET														
4D	5123318	HOSE ASSY.,3-53 (46 1/8"X13/32" I.D.)						1						
4D	5123319	HOSE ASSY.,4-53 (52 5/8"X13/32" I.D.)						1						1
4D	5123320	HOSE ASSY.,3-53 (38X13/32" I.D.)									1			
4D	5123317	HOSE ASSY.,3,4-53 (40 1/8"X13/32" I.D.)									1			
4D	5123321	HOSE ASSY.,3-53 (30 1/8"X13/32" I.D.)										1		
4D	5123316	HOSE ASSY.,3,4-53 (34 5/8"X13/32" I.D.)											1	
4D	120142	ELBOW, 3/8" INV. FL. 90 DEG. (12.9390)						1			1	1	1	1
4D	118757	ELBOW, 1/2" FL. TUBE 90 DEG. (12.4085)						1			1	1	1	1
	2387408	CONNECTOR (1/2" TUBE X 1/2" PIPE) (8.3830)						1			1	1	1	1
4D	144606	NIPPLE, 3/8"X1 1/2" PIPE (12.9560)						1			1	1	1	1
4.4345 - CLIP, OIL COOLER LINES														
	5171509	CLIP (9.1591)						4			4	4	4	4
	5173022	BRACKET										1	1	
	186627	BOLT, 3/8"-24X1" (12.9001)										1	1	
	103321	LOCKWASHER, 3/8" (12.9200)										1	1	
	117049	NUT, 3/8"-24 HEX. (12.9120)										1	1	

DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 7 3	2 7 4	2 7 5	2 7 6	2 7 7	2 7 8	2 9 7	3 0 2	3 0 4	3 1 0	3 1 5	3 1 6
4.4001 - CORE, OIL COOLER-ENGINE														
4A	8501323	CORE ASSY.,2,3,4-53 (4 PLATE)			1								1	1
4A	8501328	CORE ASSY.,3-53 (6 PLATE)				2	2				1			
4A	8539953	CORE ASSY.,3,4-53 (8 PLATE)						2					1	1
4D	5102389	CORE ASSY.,3,4-53 (8 PLATE)	1	1										
4C	8545373	CORE ASSY.,6V53 (12 PLATE)							1	1	1			
4D	186618	BOLT, 5/16"-18X5/8" (12.9001)	8	8										
4D	103320	LOCKWASHER, 5/16" (12.9200)	8	8										
4.4030 - GASKET, OIL COOLER CORE-INNER														
4A,B,C	5150155	GASKET			1	2	2	2	1	1	2		2	2
4D	5120896	GASKET,3,4-53	1	1										
4.4040 - GASKET, OIL COOLER CORE-OUTER														
4A,B,C	5102506	GASKET			2	2	2	2	1	1	2		2	2
4.4050 - HOUSING, OIL COOLER-ENGINE														
4A	5119450	+ HOUSING,2-53			1									
4D	5122566	HOUSING,3,4-53	1	1										
	5116489	HOUSING,3-53				1								
	5116490	HOUSING,3-53					1							
	5116491	HOUSING,4-53						1						
4C	5119487	# HOUSING,6V53 (A ENGINE)							1					
4C	5119488	& HOUSING,6V53 (C ENGINE)								1				
	5125208	% HOUSING,6V53 (C ENGINE)									1			
4D	5123619	HOUSING,3,4-53											1	
4D	5123618	HOUSING,3,4-53												1
4A,C	103647	DRAINCOCK, 1/4" (12.9510)			1	1	1		2	1	2		1	1
	8923313	PLUG, 3/8" PIPE (12.9550)												1
4A	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	1	1										
4A	179828	BOLT, 5/16"-18X2 1/2" (12.9001)			7									
4A	186270	BOLT, 5/16"-18X3 1/2" (12.9001)			1									
4A	186650	BOLT, 5/16"-18X4 3/4" (12.9001)							8	8	8			
4A	186274	BOLT, 5/16"-18X5" (12.9001)	1	1										
4A	103320	LOCKWASHER, 5/16" (12.9200)	2	2	8				8	8	8			
# NOT SERVICED CONVERT TO TYPE 447 ALSO INCLUDE (1) 5135565 ELBOW, (1) 5135565 HOSE.														
& NOT SERVICED CONVERT TO TYPE 443 ALSO INCLUDE (1) 5135259 ELBOW, (1) 5163824 HOSE AND (2) 5186841 CLAMPS.														
% NOT SERVICED CONVERT TO TYPE 467 ALSO INCLUDE (1) 5108901 HOSE, (1) 5127299 HOSE, (1) 5163824 HOSE, (2) 5 186841 CLAMPS, (2) 9139809 CLAMPS, (1) 5135557 ELBOW, (1) 5135565 ELBOW.														
+ OBSOLETE.														

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 7 3	2 7 4	2 7 5	2 7 6	2 7 7	2 7 8	2 9 7	3 0 2	3 0 4	3 1 0	3 1 5	3 1 6
4.4055 - GASKET, OIL COOLER HOUSING														
4D	5116357	GASKET,3,4-53 (1.1070)	1	1										
4.4060 - COVER, OIL COOLER HOUSING														
10B	5188862	@ COVER,3,4-53				1	1	1						
10B	5123214	@ COVER,3,4-53,6V53 (3/4" TAPPED HOLES)									1 2 6 2		1 2	1 2
	8924163	BUSHING, 3/4"X1/2" RED. (12.9570)												
	179823	BOLT, 5/16"-18X1 5/8" (12.9001)												
	186648	BOLT, 5/16"-18X1 7/8" (12.9001)												
4B	455971	BOLT, 5/16"-18X5 1/2" (12.9001)				8	8	8						
4B	215404	BOLT, 5/16"-18X5 3/4" (12.9001)											6	6
4B	215386	BOLT, 5/16"-18X6" (12.9001)											2	2
4B	103320	LOCKWASHER, 5/16" (12.9200)				8	8	8		8		8	8	8
		@ NOT SERVICED, FOR SERVICE USE 5107975 AND 2-5142549 PLUGS.												
4.4110 - ADAPTOR, OIL COOLER														
4A,B	5123413	% ADAPTOR,2,3,4-53					1							
4A,B	5123414	+ ADAPTOR,2,3,4-53				1	1		1					
4A	5123617	* ADAPTOR,3,4-53 (SD-76)											1	
4A	5123616	ADAPTOR,3,4-53												1
	5121182	PLUG, 1/4" PIPE (2.4015)											1	1
4A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)				4	4	4	4					
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)											2	2
	179847	BOLT, 3/8"-16X2" (12.9001)				2	2	2	2					
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)											2	2
4A	103321	LOCKWASHER, 3/8" (12.9200)				6	6	6	6				4	4
		% NOT SERVICED, FOR SERVICE USE 5103907 AND 1-5103906 GASKET.												
		+ NOT SERVICED, FOR SERVICE USE 5103855 AND 1-5103906 GASKET.												
		* NOT SERVICED, USE 5123616.												
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK														
4A,B	8923738	GASKET,2,3,4-53				2	3	3	3				3	3
4A,B	5103906	GASKET,2,3,4-53				1	1	1	1				1	1

DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 7 3	2 7 4	2 7 5	2 7 6	2 7 7	2 7 8	2 9 7	3 0 2	3 0 4	3 1 0	3 1 5	3 1 6
4.4213 - HOSE, OIL COOLER WATER INLET														
4D	5199777	* HOSE, 1 7/8"X1 1/2" CUT L. * STD. LENGTH HOSE; CUT TO LENGTH SHOWN.	1	1										
4.4214 - CLAMP, OIL COOLER WATER INLET HOSE														
4D	8920537	CLAMP, 1 9/16"-2 1/2" DIA.,3,4-53 (12.9660)	2	2										
4.4330 - HOSE, MARINE GEAR OR TRANS OIL OUTLET														
4D	5123317	HOSE ASSY.,4-53 (43 1/8"X13/32" I.D.) (4.4335)										1		
4D	5123315	% HOSE ASSY.,4-53 (40 1/8"X13/32" I.D.) (4.4335)	1	1										
4D	5137685	HOSE ASSY.,6V53 (30 5/8"X13/32" I.D.)									1			
4D	5125902	HOSE ASSY.,3,4-53 (16"X13/32")											1	1
	2387408	CONNECTOR (1/2" TUBE X 1/2" PIPE) (12.3830)									1			
4D	120142	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9390)	1	1							2	1	1	1
4D	118757	ELBOW, 1/2" FL. TUBE 90 DEG. (12.4085)	1	1								1		
4D	120278	NIPPLE, 3/8"X2 1/2" PIPE (12.9560)	1	1								1		
4D	144603	NIPPLE, 3/8"X3" PIPE (12.9560)									2		1	1
	142269	BUSHING, 1/2"X3/8" RED. PT. (12.9570) % NOT SERVICED, FOR SERVICE USE 5123317 HOSE.											1	1
4.4335 - HOSE, MARINE GEAR OR TRANS OIL INLET														
4D	5123315	* HOSE ASSY.,3,4-53 (40 1/8"X13/32" I.D.)		1										
4D	5123316	HOSE ASSY.,3,4-53 (34 5/8"X13/32" I.D.)	1											
4D	5127819	HOSE ASSY.,6V53 (28"X13/32" I.D.) (RED GEAR)									1			
4D	5108901	HOSE ASSY.,6V53 (21 1/2"X13/32" I.D.) (DIRECT DRIVE)									1			
4D	5123317	HOSE ASSY.,3-53 (43 1/8"X13/32" I.D.)										1		
4D	5115873	HOSE ASSY.,3,4-53 (20"X13/32" I.D.) (DIRECT DRIVE)											1	
4D	5124391	HOSE ASSY., 3,4-53 (24"X13/32" I.D.) (RED. GEAR)											1	

4.4000A OIL COOLER

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 7 3	2 7 4	2 7 5	2 7 6	2 7 7	2 7 8	2 9 7	3 0 2	3 0 4	3 1 0	3 1 5	3 1 6
4.4335 - HOSE, MARINE GEAR OR TRANS OIL INLET (CONT'D)														
4D	5185394	HOSE ASSY.,3,4-53 (27"X13/32"I.D.) (DIRECT DRIVE) (8.3830)												1
4D	5128916	+ HOSE ASSY.,3,4-53 (29"X13/32"I.D.) (RED. GEAR)												1
4D	120142	ELBOW, 3/8" INV. FL. 90 DEG. (12.9390)	1	1							1	1	1	1
4D	118757	ELBOW, 1/2" FL. TUBE 90 DEG. (12.4085)		1	1							1		
	2387408	CONNECTOR (1/2" TUBE X 1/2" PIPE) (8.3830)									1			
4D	144606	NIPPLE, 3/8"X1 1/2" PIPE (12.9560)	1	1							1	1		
4D	120127	NIPPLE, 3/8"X2" PIPE (12.9560) * NOT SERVICED, FOR SERVICE USE 5123317 HOSE. + OBSOLETE.											1	1
4.4345 - CLIP, OIL COOLER LINES														
	5171509	CLIP,3-53,6V53 (9.1591)	4	4							2	2		
	5173022	BRACKET, CLIP (5.5379)	1	1							1	1		
	186627	BOLT, 3/8"-24X1" (12.9001)	1	1							1	1		
	103321	LOCKWASHER, 3/8" (12.9200)	1	1							1	1		
	117049	NUT, 3/8"-24 (12.9120)	1	1							1	1		

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 3 5	3 4 1	3 5 1	3 5 2	3 5 8	3 5 9	3 7 6	3 7 7	3 7 8	3 8 0	3 8 5	3 9 4
4.4001 - CORE, OIL COOLER-ENGINE														
4A	8501328	CORE ASSY., 3-53 (6 PLATE)		1								1		
4A	8539953	CORE ASSY., 4-53 (8 PLATE)			1		1		1	1				1
4A	8502546	CORE ASSY., 4-53, 8V53 (8 PLATE)												
4B,C	8545373	CORE ASSY., 4-53, 6V53 (12 PLATE)	1			1			1	1	1		1	
4C	8502833	CORE ASSY., 6V53 (12 PLATE)					1							
4B	8528885	CORE ASSY., 6, 8V53 (16 PLATE)	1			1					1		1	
4.4030 - GASKET, OIL COOLER CORE-INNER														
4A,B,C	5150155	GASKET, 4-53, 6V53	2	1	1	2	1	1	2	2	2	1	2	1
4.4040 - GASKET, OIL COOLER CORE-OUTER														
4A,B,C	5102506	GASKET	2	1	1	2	1	1	2	2	2	1	2	1
4.4050 - HOUSING, OIL COOLER-ENGINE														
4C	5128151	# HOUSING, 6V53	1			1					1			
4A	5119452	HOUSING, 3-53		1								1		
4A	5119454	HOUSING, 4-53			1									
4A	5109858	+ HOUSING, 4-53					1							
4C	5135538	HOUSING, 6V53						1						
4B	5130360	HOUSING, 4-53							1					
4B	5130361	HOUSING, 4-53								1				
4A	5119453	HOUSING, 4-53												1
4A,C	103647	DRAINCOCK, 1/4" (12.9510)		1	1	1		1	1	1		1	1	1
4A	179830	BOLT, 5/16"-18X3" (12.9001)		7								7		
4A	186270	BOLT, 5/16"-18X3 1/2" (12.9001)		1	1		8		2	2		1		8
4C	186650	BOLT, 5/16"-18X4 3/4" (12.9001)						8	3	3				
	215386	BOLT, 5/16"-18X6" (12.9001)	5			5					5		2	
4A,C	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		# NOT SERVICED, FOR REPLACEMENT USE 5135914 AND INCLUDE (1) 5142549 PLUG.												
		+ OBSOLETE												
4.4060 - COVER, OIL COOLER HOUSING														
10B	5123214	% COVER, 4-53, 6V53 (3/4" TAPPED HOLES)	1						1	1	1			
4B	5188862	% COVER, 4-53, 6, 8V53				1							1	
	186624	BOLT, 5/16"-18X1 1/4" (12.9001)											6	
4B	106327	BOLT, 5/16"-18X1 3/8" (12.9001)							3	3				
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)									3			
	186648	BOLT, 5/16"-18X1 7/8" (12.9001)	2						2	2	2			

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 3 5	3 4 1	3 5 1	3 5 2	3 5 8	3 5 9	3 7 6	3 7 7	3 7 8	3 8 0	3 8 5	3 9 4
4.4060 - COVER, OIL COOLER HOUSING (CONT'D)														
4B	215404	BOLT, 5/16"-18X5 3/4" (12.9001)							3	3			2	
4B	447188	BOLT, 5/16"-18X6 3/4" (12.9001)				2								
4B	180737	BOLT, 5/16"-18X7" (12.9001)	2								2			
4B	103320	LOCKWASHER, 5/16" (12.9200)	4			2			8	8	7		8	
% NOT SERVICED, FOR SERVICE USE 5107975 AND 2-5142549 PLUGS.														
4.4110 - ADAPTOR, OIL COOLER														
4A	5123414	+ ADAPTOR,3-53		1						1				
4A	5123413	% ADAPTOR,3,4-53			1				1			1		1
	5179142	@ ADAPTOR,4-53					1							
4A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)		4	4				4	4		4		4
4A	5157244	BOLT, 3/8"-16X1 3/4" (12.9001)		2	2		4					2		2
4A	179847	BOLT, 3/8"-16X2" (12.9001)					2		2	2				
4A	179867	BOLT, 7/16"-14X2 1/4" (12.9001)					1							
	103342	WASHER, 7/16" (12.9190)					4							
4A	103321	LOCKWASHER, 3/8" (12.9200)		AR	AR		6		6	AR		AR		AR
4A	103322	LOCKWASHER, 7/16" (12.9200)					1							
@ OBSOLETE. % NOT SERVICED, FOR SERVICE USE 5103907 AND 1-5103906 GASKET. + NOT SERVICED, FOR SERVICE USE 5103855 AND 1-5103906 GASKET.														
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK														
4A,B	8923738	GASKET,2,3,4-53		3	3		4		3	3		3		3
4A,B	5103906	GASKET,3,4-53		1	1		1		1	1		1		1
4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET														
	5120028	HOSE ASSY. (41 1/2"X5/8" I.D.) (3.5505)							1					
	5183095	HOSE ASSY.,4-53 (53 3/16"X5/8" I.D.) (8.3800)									1			
	5187150	HOSE ASSY.,4-53 (58 1/4"X5/8" I.D.) (9.1587)								1				
	5177664	CONNECTOR (5/8" FL. TUBE X 3/4" P.T.) (8.3800)							1	1	1			
	8925073	ELBOW (3/4" TUBE X 3/4" P.T. 90 DEG.) (12.9590)										1		
	8924164	NIPPLE, 3/4"X1 3/8" PIPE (12.9560)							1	1	1			
	189775	TEE, 3/4"X1/2" PIPE RED. (12.9616)							1	1	1			
4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET														
	5120028	HOSE ASSY.,4-53 (41 1/2"X5/8" I.D.) (3.5505)							1					
	5183095	HOSE ASSY., 6V53 (53 3/16"X5/8" I.D.) (8.3800)									1			

4.4000A OIL COOLER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		3 3 5	3 4 1	3 5 1	3 5 2	3 5 8	3 5 9	3 7 6	3 7 7	3 7 8	3 8 0	3 8 5	3 9 4
	4.4335	HOSE, MARINE GEAR OR TRANSMISSION OIL INLET (CONT'D)											
5187150	HOSE ASSY.,4-53 (58 1/4"X5/8" I.D.) (9.1587)												
5176705	ELBOW (3/4" TUBE X 3/4" P.T. 90 DEG.) (8.3800)												
	4.4345	CLIP, OIL COOLER LINES											
5165244	CLIP,4-53 (7/8" TUBE) (4.8040)												
5157702	CLIP,6V53 (1" TUBE) (4.8040)												
5181325	BRACKET, CLIP (4.8042)												
5173022	BRACKET, CLIP (5.5379)												
186629	BOLT, 5/16"-18X1" (12.9001)												
103320	LOCKWASHER, 5/16" (12.9200)												
120376	NUT, 5/16"-18 (12.9120)												
	4.4360	SWITCH, TRANSMISSION OIL TEMPERATURE											
6401093	SWITCH (7.4130)												

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 0 0	4 0 1	4 0 5	4 1 3	4 1 5	4 2 1	4 2 6	4 2 7	4 3 3	4 3 7	4 4 3	4 4 4
4.4001 - CORE, OIL COOLER-ENGINE														
	8501323	CORE ASSY.,2-53 (4 PLATE)							1					
A	8501328	CORE ASSY.,3-53 (6 PLATE)	1											
	8502549	CORE ASSY.,3-53 (6 PLATE)		1										
A	8502546	* CORE ASSY.,4-53,6V53 (8 PLATE)								1				
	8534392	CORE ASSY.,8V53 (8 PLATE) (CUPRO-NICKLE)										1		
	8502546	CORE ASSY.,4-53 (8 PLATE)												2
C	8529879	CORE ASSY.,6V53 (10 PLATE)				1								
C	8529880	CORE ASSY.,6V53 (14 PLATE)				1								
B,C	8545373	CORE ASSY.,4-53,6V53 (12 PLATE)											1	
B	8528885	CORE ASSY.,6,8V53 (16 PLATE)			1	1	1	1			1			
	8534100	+ CORE ASSY.,8V53 (16 PLATE)									1			
	179816	BOLT, 5/16"-18X3/4" (12.9001)										8		
	5133539	WASHER, 1 3/8" (4.4060)				4						8		
	103320	LOCKWASHER, 5/16" (12.9200)										8		
	5133538	NUT, 1 3/8"-16 (4.4060)				4								
		* NOT SERVICED, FOR TYPE 427 CONVERT TO TYPE 437.												
		+ OBSOLETE												
4.4030 - GASKET, OIL COOLER CORE-INNER														
A,B,C	5150155	GASKET,4-53,6V53	1	1	1	1	1	1	1	1	1	1	1	2
	5138127	+ GASKET,8V53								1				
	5133619	GASKET,6V53				4								
		+ OBSOLETE.												
4.4040 - GASKET, OIL COOLER CORE-OUTER														
IA,B,C	5102506	GASKET,4-53,6V53	1	1	1	1	1	1	1	1	1		1	2
	5134818	GASKET,6V53			1									
	5133537	GASKET,6V53				1								
	5135173	+ GASKET,8V53									1			
		+ OBSOLETE												
4.4050 - HOUSING, OIL COOLER-ENGINE														
IA	5119451	HOUSING,3-53	1	1										
	5132649	HOUSING,6V53			1									
	5133532	HOUSING,6V53				1								
IC	5132703	+ HOUSING,8V53						1						
	5133339	HOUSING,8V53						1						
	5119449	HOUSING,2-53							1					
	5134224	+ HOUSING,8V53								1		1		
	5134813	+ HOUSING,8V53									1			
	5135519	* HOUSING,6V53											1	
	5116491	HOUSING,4-53												1

4.4000A OIL COOLER AND MARINE GEAR LINES

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			4 0 0	4 0 1	4 0 5	4 1 3	4 1 5	4 2 1	4 2 6	4 2 7	4 3 3	4 3 7	4 4 3	4 4 4
		4.4050 - HOUSING, OIL COOLER-ENGINE (CONT'D)												
4A,C	103647	DRAINCOCK, 1/4" (12.9510)	1	1	1	1	2	1	1	1	1	1	2	1
	5121182	PLUG, 1/4" SOC. HD. (2.4015)						1						
	113177	PLUG, 3/4" SQ. HD. (12.9550)								1		1		
	8923313	PLUG, 3/4" SQ. HD. PIPE (12.9550)											2	
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)							7					
4A	179830	BOLT, 5/16"-18X3" (12.9001)	7	7										
4A	186270	BOLT, 5/16"-18X3 1/2" (12.9001)	1	1					1					
4C	186650	BOLT, 5/16"-18X4 3/4" (12.9001)											8	
	215386	BOLT, 5/16"-18X6" (12.9001)				3	4	6	6		3			
	446597	BOLT, 5/16"-18X6 1/2" (12.9001)					3							
	179839	BOLT, 3/8"-16X1" (12.9001)								2		1		
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)										1		
	120393	WASHER, 5/16" (12.9190)				3	8							
	103341	WASHER, 3/8" (12.9190)								2		2		
4A,C	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	2	2	AR	
	103321	LOCKWASHER, 3/8" (12.9200)								2		2		
		* NOT SERVICED, USE (1) 5144308												
		HOUSING AND INCLUDE (1) 5145249												
		PLUG.												
		+ OBSOLETE												
		4.4055 - GASKET, OIL COOLER HOUSING												
	5115395	GASKET,8V53 (TO RAW WATER PUMP)								1		1		
		4.4060 - COVER, OIL COOLER HOUSING												
4B	5188862	% COVER,4-53,6,8V53								1			1	
	5186603	COVER,6V53			1									
	5133536	COVER,8V53				1								
	5138126	+ COVER,8V53									1			
	5133960	STUD, 5/16"-18-24X9.60"L. (12.9117)			3									
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)			5									
	446597	BOLT, 5/16"-18X6 1/2" (12.9001)									3		8	
	120393	WASHER, 5/16" (12.9190)			8									
4B	103320	LOCKWASHER, 5/16" (12.9200)				AR				AR	3		8	
	114493	LOCKNUT, 5/16"-24 (2.7170)			3									
		+ OBSOLETE.												
		% NOT SERVICED, FOR SERVICE USE												
		5107975 AND 2-5142549 PLUGS.												
		4.4100 - BRACKET, OIL COOLER HOUSING SUPPORT												
	5134178	+ BRACKET,8V53								1		1		
	8920537	CLAMP, 1 9/16"-2 1/2" DIA. HOSE (12.9660)								1		1		
		+ OBSOLETE.												

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 0 0	4 0 1	4 0 5	4 1 3	4 1 5	4 2 1	4 2 6	4 2 7	4 3 3	4 3 7	4 4 3	4 4 4
4.4110 - ADAPTOR, OIL COOLER														
4A	5123414	+ ADAPTOR,3-53												1
4A	5123413	% ADAPTOR,3,4-53		1										
4A	5121227	ADAPTOR,2,3-53	1						1					
	5121182	PLUG, 1/4" PIPE (2.4015)	1											
4A	9409215	BOLT, 3/8"-16X1 1/4" (12.9001)	4											
4A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)		4										4
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)							4					
4A	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)			2									
4A	179847	BOLT, 3/8"-16X2" (12.9001)												2
4A	103341	WASHER, 3/8" (12.9190)	4											6
4A	103321	LOCKWASHER, 3/8" (12.9200)		6					4					
		% NOT SERVICED, FOR SERVICE USE 5103907 AND 1-5103906 GASKET.												
		+ NOT SERVICED, FOR SERVICE USE 5103855 AND 1-5103906 GASKET.												
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK														
4A,B	8923738	GASKET,2,3,4-53	2	3					2					3
4A,B	5103906	GASKET,3,4-53		1										1
4A,B	5116416	GASKET,2,3-53 (5.1006)	1						1					
4.4211 - CONNECTION, OIL COOLER WATER INLET														
	5108605	ELBOW (5.3420)				1								
	5120540	GASKET				1								
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)				2								
	103341	WASHER, 3/8" (12.9190)				2								
	103321	LOCKWASHER, 3/8" (12.9200)				2								
4.4242 - FLANGE, OIL COOLER WATER OUTLET														
	5141173	FLANGE,6,8V53				1	1	1			1			
	5138777	# FLANGE,8V53					1	1			1			
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)				2								
	106327	BOLT, 5/16"-18X1 3/8" (12.9001)			2						2			
	120393	WASHER, 5/16" (12.9190)						2						
	103320	LOCKWASHER, 5/16" (12.9200)			2		2	2			2			
		# NOT SERVICED; USE 5141173 FLANGE AND INCLUDE 5141210 SEAL RING.												
4.4244 - GASKET, OIL COOLER WATER OUTLET FLANGE														
	5141210	SEAL RING,6,8V53				1	1	1			1			
	5138776	* SEAL RING,8V53					1	1			1			
		* NOT SERVICED; USE 5141210 SEAL RING AND INCLUDE 5141173 FLANGE.												

DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		4 0 0	4 0 1	4 0 5	4 1 3	4 1 5	4 2 1	4 2 6	4 2 7	4 3 3	4 3 7	4 4 3	4 4 4
	4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET												
5185394	HOSE ASSY.,8V53 (27"X13/32"I.D.) (8.3830)								1				
5173858	HOSE ASSY.,8V53 (31"X13/32"I.D.) (12.4085)										1		
111316	ELBOW, 3/8" STREET 90 DEG. (12.9590)								2			1	
444042	ELBOW, 3/8" STREET 90 DEG. (12.9590)										1		
142269	BUSHING, 1/2"X3/8" (12.9570)								2		1		
142767	BUSHING, 3/4"X3/8" RED. (12.9570)												
	4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET												
5108901	HOSE ASSY.,8V53 (21 1/2"X13/32")								1				
5185394	HOSE ASSY.,8V53 (27"X13/32"I.D.) (8.3830)											1	
444042	ELBOW, 3/8" STREET 90 DEG. (12.9590)										1		
118757	ELBOW, 1/2" TUBE X 3/8" P.T. (12.9390)								2		2		
142269	BUSHING, 1/2"X3/8" (12.9570)										1		
444136	TEE, 3/8" P.T. (12.9616)								1		1		
	4.4345 - CLIP, OIL COOLER LINES												
5151189	CLIP,8V53								2		2		
5166565	BRACKET, CLIP								1				
5160425	SPACER, 13/32"X23/32" (2.3267)										1		
186619	BOLT, 3/8"-16X1 1/8" (12.9001)								1				
108608	BOLT, 3/8"-16X2 1/8" (12.9001)								1				
179850	BOLT, 3/8"-16X2 3/4" (12.9001)										1		
103321	LOCKWASHER, 3/8" (12.9200)								1				
102635	NUT, 3/8"-16 (12.9120)								1				

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 4 7	4 5 1	4 5 3	4 5 5	4 5 6	4 5 9	4 6 0	4 6 2	4 6 3	4 6 4	4 6 6	4 6 7
4.4001 - CORE, OIL COOLER-ENGINE														
A	8501328	CORE ASSY.,3-53 (6 PLATE)			1	1							1	
	8502549	CORE ASSY.,3-53 (6 PLATE)											1	
	8534719	# CORE ASSY.,6,8V53 (8 PLATE)					1		1			1		
C	8502833	CORE ASSY.,6V53 (12 PLATE)		1							1			
B,C	8545373	CORE ASSY.,6V53 (12 PLATE)	1					1		1				1
B	8528885	CORE ASSY.,6,8V53 (16 PLATE)								1				
A	8532253	CORE ASSY.,6V53 (16 PLATE)									1			
	179816	BOLT, 5/16"-18X3/4" (12.9001)					8		8			8		
	103320	LOCKWASHER, 5/16" (12.9200)					8		8			8		
		# INCLUDES NUT AND RING IN 4.4001.												
4.4030 - GASKET, OIL COOLER CORE-INNER														
A,B,C	5150155	GASKET	1	1	1	1	1	1	1	2	2	1	1	2
4.4040 - GASKET, OIL COOLER CORE-OUTER														
A,B,C	8923223	GASKET	1	1	1	1		1		2	2		1	2
4.4050 - HOUSING, OIL COOLER-ENGINE														
	5135518	& HOUSING,6V53	1	1										
IA	5119452	HOUSING,3-53			1									
	5135801	@ HOUSING,3-53				1								
IC	5128151	% HOUSING,6V53								1	1			
	5136074	+ HOUSING,3-53											1	
	5135516	HOUSING,6V53												1
	5137989	HOUSING,6V53						1						
	103647	DRAINCOCK, 1/4" (12.9510)	1	2	1			2		1	1		1	2
	8923313	PLUG, 3/8" PIPE (12.9550)	1	1							1			
IA	179830	BOLT, 5/16"-18X3" (12.9001)			7	7							7	
IA	186270	BOLT, 5/16"-18X3 1/2" (12.9001)			1	1							1	
IC	186650	BOLT, 5/16"-18X4 3/4" (12.9001)	8	8				8						8
	215386	BOLT, 5/16"-18X6" (12.9001)								5	5			
	120393	WASHER, 5/16" (12.9190)											8	
IA,C	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	8	8		AR		AR	AR		8	AR
		& NOT SERVICED, USE 5135915 AND INCLUDE (1) 5142549 PLUG.												
		@ NOT SERVICED, FOR SERVICE USE 5119452 HOUSING.												
		% NOT SERVICED, USE 5135914 AND INCLUDE (1) 5142549 PLUG.												
		+ OBSOLETE.												
4.4060 - COVER, OIL COOLER HOUSING														
10B	5123214	@ COVER,4-53,6V53 (3/4" TAPPED HOLES)								1				
	5188862	COVER,6V53									1			
	5129274	@ COVER,4-53,6V53												1

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 7	4 5 1	4 5 3	4 5 5	4 5 6	4 5 9	4 6 0	4 6 2	4 6 3	4 6 4	4 6 6	4 6 7
4.4060 - COVER, OIL COOLER HOUSING (CONT'D)														
4B	186624	BOLT, 5/16"-18X1 1/4" (12.9001)									5			
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)								3				
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)												7
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)								2				1
4B	447188	BOLT, 5/16"-18X6 3/4" (12.9001)									3			
4B	180737	BOLT, 5/16"-18X7" (12.9001)								3				
4B	120393	WASHER, 5/16" (12.9190)												8
4B	103320	LOCKWASHER, 5/16" (12.9200)								8	8			8
@ NOT SERVICED, FOR SERVICE USE 5107975 AND 2-5142549 PLUGS.														
4.4110 - ADAPTOR, OIL COOLER														
4A	5144394	ADAPTOR,3-53 (ALUMINUM L.H.)			1									
4A	5123414	# ADAPTOR,3-53				1								
	5135437	+ ADAPTOR,3-53											1	
4A	179839	BOLT, 3/8"-16X1" (12.9001)			4	4							4	
4A	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)			2	2							2	
	103341	WASHER, 3/8" (12.9190)											4	
4A	103321	LOCKWASHER, 3/8" (12.9200)			6	6							6	
+ OBSOLETE. # NOT SERVICED, FOR SERVICE USE 5103855 AND 1-5103906 GASKET.														
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK														
4A,B	5103906	GASKET,3,4-53			1	1							1	
4A,B	8923738	GASKET,2,3,4-53			3	3							3	
4.4211 - CONNECTION, OIL COOLER WATER INLET														
	5136051	ELBOW, WATER INLET,2-53											1	
	3222141	GASKET (5.3280)											1	
	8924140	DRAINCOCK, 1/4" (12.9510)											1	
	186624	BOLT, 5/16"-18X1 1/4" (12.9001)											2	
	120393	WASHER, 5/16" (12.9190)											2	
	103320	LOCKWASHER, 5/16" (12.9200)											2	
4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET														
	5131492	HOSE ASSY.,6V53 (60"X13/32" I.D.) (12.4085)					1		1					
	5186451	+ HOSE ASSY.,6V53 (62"X3/4") (9.1587)								1				
	5185390	HOSE ASSY.,8V53 (66"X13/32" I.D.) (8.3830)											1	

4.4000A OIL COOLER

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	4 4 7	4 5 1	4 5 3	4 5 5	4 5 6	4 5 9	4 6 0	4 6 2	4 6 3	4 6 4	4 6 6	4 6 7
4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET (CONT'D)														
5137685	HOSE ASSY., 6V53 (4.4335)													1
118752	CONNECTOR (1/2" FL. TUBE X 3/8" P.T.) (12.9380)											1		
5177664	CONNECTOR (5/8" FL. TUBE X 3/4" P.T.) (8.3800)									1				
2387408	CONNECTOR (1/2" TUBE X 1/2" PIPE) (12.9380)													1
118757	ELBOW, 1/2" TUBE X 3/8" P.T. (12.9390)						1		1			1		
5176705	ELBOW, 3/4" TUBE X 3/4" P.T. 90 DEG. (8.3800)								1					
444042	ELBOW (3/8" STREET 90 DEG.) (12.9590)												1	
142269	BUSHING, 1/2" X 3/8" RED. (12.9570)						1		1			1		
144613	NIPPLE, 3/4" X 1 3/8" PIPE (12.9560)									1				
144603	NIPPLE, 3/8" X 3" PIPE (12.9560)						1			1				1
189775	TEE, 3/4" X 1/2" PIPE RED. (12.9616) + OBSOLETE.									1				
4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET														
5127819	HOSE, 6V53 (28" X 13/32" I.D.) (4.4330)													1
5123318	HOSE, 6V53 (47" X 13/32" I.D.) (4.4330)						1							
5185389	HOSE, 4-53, 6V53 (57 1/2" X 13/32" I.D.) (8.3830)								1			1		
5186451	+ HOSE, 6V53 (62" X 3/4" I.D.) (9.1587)									1				
118757	ELBOW, 1/2" TUBE X 3/8" P.T. (12.9390)						1					1		
111316	ELBOW (3/8" STREET) (12.9590)								1					
120142	ELBOW (1/2" TUBE X 3/8" P.T. 90 DEG.) (12.9390)						1		1					1
5176705	ELBOW (3/4" TUBE X 3/4" P.T. 90 DEG.) (8.3800)									2				
444042	ELBOW (3/8" STREET 90 DEG.) (12.9590)												1	
144128	ELBOW (3/8" PIPE 90 DEG.) (12.9600)											1		
2387408	CONNECTOR (1/2" TUBE X 1/2" PIPE) (12.9380)													1
142269	BUSHING, 1/2" X 3/8" RED. (12.9570)								1			1		
144606	NIPPLE, 3/8" X 1 1/2" PIPE (12.9560)								1			1		1
144603	NIPPLE, 3/8" X 3" PIPE (12.9560)						1							
444136	TEE, 3/8" X 1 1/2" PIPE (12.9616) + OBSOLETE.											1		
4.4345 - CLIP, OIL COOLER LINES														
5157702	CLIP, 6V53 (1" TUBE) (4.8040)									4				
5171509	CLIP, 6V53 (5/8") (9.1591)						2		2					2
5151189	CLIP, 4-53, 6V53 (3/4") (4.8040)											4		

DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		4 4 7	4 5 1	4 5 3	4 5 5	4 5 6	4 5 9	4 6 0	4 6 2	4 6 3	4 6 4	4 6 6	4 6 7
4.4345 - CLIP, OIL COOLER LINES (CONT'D)													
5173022	BRACKET, CLIP (5.5379)										1		1
5114551	TAG, CABLE (7.4545)					2		2			1		
179819	BOLT, 5/16"-18X1 1/8" (12.9001)												
186274	BOLT, 5/16"-18X5" (12.9001)					1		1					
186627	BOLT, 3/8"-24X1" (12.9001)										1		1
103321	LOCKWASHER, 3/8" (12.9200)										1		1
117049	NUT, 3/8"-24 (12.9120)										1		1
4.4360 - SWITCH, TRANSMISSION OIL TEMPERATURE													
6401093	SWITCH, 6V53 (7.4130)								1				

4.4000A OIL COOLER AND MARINE GEAR LINES

			TYPES											
PART			4	4	4	4	4	4	4	4	5	5	5	
.FIG . . . NUMBER NAME AND DESCRIPTION			7	8	8	8	9	9	9	9	0	0	1	
			1	1	5	9	0	1	2	4	5	2	7	8
4.4001 - CORE, OIL COOLER-ENGINE														
	8501323	CORE ASSY.,2,4-53 (4 PLATE)						1	1	1		1		
	8539953	CORE ASSY.,4-53 (8 PLATE)						1	1			1		
IB,C	8545373	CORE ASSY.,6V53 (12 PLATE)		1		1	1						1	1
IB	8528885	CORE ASSY.,6,8V53 (16 PLATE)			1									1
4.4030 - GASKET, OIL COOLER CORE-INNER														
IA,B,C	5150155	GASKET	1	1	1	1	1	2	2	1	1	2	1	2
4.4040 - GASKET, OIL COOLER CORE-OUTER														
IA,B,C	5102506	GASKET		1		1	1	3	2	1	2	2	1	2
	5134818	GASKET			1								1	
4.4050 - HOUSING, OIL COOLER-ENGINE														
	5135915	HOUSING,6V53	1											
	5137989	HOUSING,6V53		1										
	5137738	+ HOUSING,8V53			1									
	5137790	HOUSING,6V53				1								
	5139912	HOUSING,6V53					1						1	
	5123618	HOUSING,4-53						1						
	5123619	HOUSING,4-53									1			
	5119449	HOUSING,2-53								1				
	5135914	HOUSING, 6V53										1		
	103647	DRAINCOCK, 1/4" (12.9510)		2	2	2	2	1	1	1		1	1	1
	8924140	DRAINCOCK, 1/4" (12.9510)											2	
	8923313	PLUG, 3/8" PIPE (12.9550)					1	1						1
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)								7			7	1
4A	186270	BOLT, 5/16"-18X3 1/2" (12.9001)											1	
4C	186650	BOLT, 5/16"-18X4 3/4" (12.9001)	8	8		8	8						8	
	215386	BOLT, 5/16"-18X6" (12.9001)			6									5
4A,C	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR			AR			AR	AR
		+ OBSOLETE												
4.4060 - COVER, OIL COOLER HOUSING														
10B	5123214	# COVER (3/4" TAPPED HOLES)						1	1					1
	5146505	COVER,6V53									1			
	5129274	# COVER,4-53,6V53					1					1		
	8924158	BUSHING, 1/2"X3/8" RED. (12.9570)										2		
	8924163	BUSHING, 3/4"X1/2" RED. (12.9570)					2	2	2					
	5115214	PLUG, 1/2" PIPE (12.9550)									2			
	111316	ELBOW, 3/8"-90 DEG. STREET (12.9590)						2	2					
	186629	BOLT, 5/16"-18X1" (12.9001)									8			
	179822	BOLT, 5/16"-18X1 1/2" (12.9001)												3
	186648	BOLT, 5/16"-18X1 7/8" (12.9001)												2
	215404	BOLT, 5/16"-18X5 1/4" (12.9001)						6	6			6		
	215386	BOLT, 5/16"-18X6" (12.9001)						2	2			2		
4B	180737	BOLT, 5/16"-18X7" (12.9001)						8	8		8	8		3
	103320	LOCKWASHER, 5/16" (12.9200)												8

4.4000A OIL COOLER AND MARINE GEAR LINES

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION												
		4 7 1	4 8 1	4 8 5	4 8 9	4 9 0	4 9 1	4 9 2	4 9 4	4 9 5	5 0 2	5 0 7	5 0 8	5 1 2
	4.4060 - COVER, OIL COOLER HOUSING (CONT'D)													
	# NOT SERVICED; FOR SERVICE USE 5107975 COVER AND (2) 5142549 PLUGS.													
	4.4110 - ADAPTOR, OIL COOLER													
	5123616 ADAPTOR,4-53						1							
	5123617 * ADAPTOR,4-53 (S.D. 76)							1			1			
	5121227 ADAPTOR,2-53								1					
	5138774 ADAPTOR,2-53											1		
	5138773 PLATE, ADAPTOR											1		
	5121182 PLUG, 1/4" PIPE (2.4015)						1	1			1			
	186612 BOLT, 3/8"-16X1 3/8" (12.9001)								4					
	186622 BOLT, 3/8"-16 X 1 1/4" (12.9001)											4		
	179846 BOLT, 3/8"-16X1 7/8" (12.9001)						2	2			2			
	427588 BOLT, 3/8"-16X2 1/2" (12.9001)						2	2			2			
4A	103321 LOCKWASHER, 3/8" (12.9200)						4	4	4		4	4		
	* NOT SERVICED, USE 5123616.													
	4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK													
4A,B	5103906 GASKET,3,4-53						1	1			1			
4A,B	8923738 GASKET,2,3,4-53						2	2	2		2			
	5119329 GASKET, 2-53 (5.1006)								1			1		
	5144703 GASKET, 6V53 (5.5050)									1				
	4.4242 - FLANGE, OIL COOLER WATER OUTLET													
	5138777 # FLANGE,8V53				1									
	5141173 FLANGE,8V53				1									
	179819 BOLT, 5/16"-18X1 1/8" (12.9001)				2									
	103320 LOCKWASHER, 5/16" (12.9200)				2									
	# NOT SERVICED, FOR REPLACEMENT USE 5141173 FLANGE AND INCLUDE 5141210 SEAL RING.													
	4.4244 - GASKET, OIL COOLER WATER OUTLET FLANGE													
	5138776 * SEAL RING,8V53				1									
	5141210 SEAL RING,8V53				1									
	* NOT SERVICED, FOR REPLACEMENT USE 5141210 SEAL RING AND INCLUDE 5141173 FLANGE.													

4.4000A OIL COOLER AND MARINE GEAR LINES

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION												
		4 7 1	4 8 1	4 8 5	4 8 9	4 9 0	4 9 1	4 9 2	4 9 4	4 9 5	5 0 2	5 0 7	5 0 8	5 1 2
	4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET													
5125902	HOSE ASSY., 4-53 (16"X13/32" I.D.) (2.5100)						1	1			1			
120142	ELBOW, 1/2" TUBE X 3/8" P.T. 90 DEG. (12.9390)						1	1			1			
144603	NIPPLE, 3/8"X3" PIPE (12.9560)						1	1			1			
	4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET													
5115873	HOSE, 4-53 (20"X13/32" I.D.)										1			
5124391	HOSE, 4-53 (24"X13/32" I.D.)							1						
5128916	+ HOSE, 4-53 (29"X13/32" I.D.) (2.5010)						1							
120142	ELBOW (1/2" TUBE X 3/8" P.T. 90 DEG. (12.9390)						1	1			1			
120127	NIPPLE, 3/8"X2 1/2" PIPE (12.9560) + OBSOLETE.						1	1			1			
	4.4345 - CLIP, OIL COOLER LINES													
5151189	CLIP, 4-53, 6, 8V53 (3/4") (4.8040)						3	2			2			
5159393	BRACKET, CLIP (4.1575)						1	1			1			
5114551	TAG, CABLE (7.4545)							2			2			
179838	BOLT, 3/8"-16X7/8" (12.9001)						1	1			1			
186679	BOLT, 3/8"-16X1 1/4" (12.9001)						1							
103321	LOCKWASHER, 3/8" (12.9200)						1	1			1			
102635	NUT, 3/8"-16 (12.9120)						1	1			1			

4.4000A OIL COOLER AND MARINE GEAR LINES

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	5 2 8	5 3 6	5 5 4	5 5 6	5 5 9	5 6 0	5 6 9	5 7 5	5 7 7	5 7 8	5 8 5	5 8 6	6 0 0
4.4001 - CORE, OIL COOLER-ENGINE															
4C	8502833	CORE ASSY., 6V53 (12 PLATE)	1												
4C	8528885	CORE ASSY., 6V53 (16 PLATE)													
4A	8539953	CORE ASSY., 3,4-53 (8 PLATE)		1	1			2							
4B,C	8545373	CORE ASSY., 4-53, 6V53 (12 PLATE)		1	1										
	8501323	CORE ASSY., 4-53 (4 PLATE)				1									
	8502549	CORE ASSY., 3-53 (6 PLATE)					1								
	5142436	CORE ASSY., (ENGINE COOLER) 8V53							1						
	5142388	CORE ASSY., (TRANS. COOLER) 8V53							1						
	8534719	# CORE ASSY., 6,8V53 (8 PLATE)								1					1
	8502546	CORE ASSY., 4-53 (8 PLATE) (4.4005)									1				
4A	8501328	CORE ASSY., 3-53 (6 PLATE)										1			
4D	5102389	CORE ASSY., 4-53 (8 PLATE)											1	1	
	8923313	PLUG, 3/4" (12.9550)										2			
4D	186618	BOLT, 5/16"-18X5/8" (12.9001)											8	8	
4D	179816	BOLT, 5/16"-18X3/4" (12.9001)								8					8
4D	103320	LOCKWASHER, 5/16" (12.9200)								8			8	8	8
		# INCLUDES NUT AND RING IN 4.4001.													
4.4030 - GASKET, OIL COOLER CORE-INNER															
4A,B,C	5150155	GASKET	1	2	3	2	1		2	1	1	1			1
4D	5120896	GASKET, 4-53 (4.4040)											1	1	
4.4040 - GASKET, OIL COOLER CORE-OUTER															
4A,B,C	5102506	GASKET	1	2	2	1	1	2	1		1	1			
4.4050 - HOUSING, OIL COOLER-ENGINE															
	5137989	HOUSING	1												
4B	5116491	HOUSING, 3,4-53 (L.H.)			1			1							
4A	5119452	HOUSING, OIL COOLER, 3-53 (L.H.)					1								
4A	5133678	HOUSING, 3-53							1						
4A	5119454	HOUSING, 4-53 (L.H.)									1				
4D	5122566	HOUSING, 4-53											1		
4D	5121183	HOUSING, 4-53												1	
4C	5140391	HOUSING, 6V53			1										
	5129499	SPACER			1										
	8923313	PLUG, 3/4" PIPE (12.9550)		1											
	103647	DRAINCOCK, 1/4" (12.9510)	2	2	1		1	1			1	1			
4D	179819	BOLT, 5/16"-18X1 1/8" (12.9001)											1	1	
	179830	BOLT, 5/16"-18X3" (12.9001)					7					7			
	186270	BOLT, 5/16"-18X3 1/2" (12.9001)					1				8	1			
	186650	BOLT, 5/16"-18X4 3/4" (12.9001)	6												
4D	186274	BOLT, 5/16"-18X5" (12.9001)											1	1	
	215386	BOLT, 5/16"-18X6" (12.9001)			5										
	120393	WASHER, 5/16" (12.9190)										8			
4D	103320	LOCKWASHER, 5/16" (12.9200)	AR	5			8				AR	AR	AR	AR	

4.4000A OIL COOLER AND MARINE GEAR LINES

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	5 2 8	5 3 6	5 4	5 5 6	5 5 9	5 6 0	5 6 9	5 7 5	5 7 7	5 7 8	5 8 5	5 8 6	6 0 0
4.4055 - GASKET, OIL COOLER HOUSING															
ID	5116357	GASKET,4-53 (1.1070)											1	1	
4.4060 - COVER, OIL COOLER HOUSING															
10B	5123214	+ COVER, 3,4-53,6V53 (3/4" TAPPED HOLES)		1	1			1							
	5129274	+ COVER,4-53				1									
	8924158	BUSHING, 1/2"X3/8" RED. (12.9570)				2									
	111316	ELBOW, 90 DEG.-3/8" STREET (12.9590)				2									
	179822	BOLT, 5/16"—18X1 1/2" (12.9001)		3											
	186648	BOLT, 5/16"—18X1 7/8" (12.9001)		2											
	215404	BOLT, 5/16"-18X5 3/4" (12.9001)				6									
	215386	BOLT, 5/16"-18X6" (12.9001)				2									
	447188	BOLT, 5/16"-18X6 3/4" (12.9001)						6							
	180737	BOLT, 5/16"-18X7" (12.9001)		3				2							
	216857	BOLT, 5/16"-18X8" (12.9001)						8							
	9428440	BOLT, 5/16"-18X8 1/2" (12.9001)			2										
	103320	LOCKWASHER, 5/16" (12.9200)		8	8	8		8							
		+ NOT SERVICED, USE 5107975 COVER AND (2) 5142549 PLUGS.													
4.4110 - ADAPTOR, OIL COOLER															
4A	5123414	% ADAPTOR,3,4-53			1		1	1			1				
	5141426	ADAPTOR,8V53 (REAR)							1						
	5109685	ADAPTOR,8V53							1						
	5144394	ADAPTOR,3-53 (L.H.)										1			
	5141424	# ADAPTOR ASSY.,8V53 (TO BLOCK)							1						
	5141427	= ADAPTOR ASSY.,8V53 (FRONT)							1						
	5115214	PLUG, 1/2" HEX. SKT. (12.9550)							1						
	8923313	PLUG, 3/4"-14 NPTF SKT. SQ. SOC. (12.9550)							2						
	5176182	STUD, 3/8"-16X1 13/16" OIL CLR. (4.4050)							8						
	180083	BOLT, 5/16"-18X1 1/2" (12.9001)							5						
	186648	BOLT, 5/16"-18X1 7/8" (12.9001)							3						
	181342	BOLT, 5/16"-24X1 3/8" (12.9001)							24						
	181350	BOLT, 5/16"-24X2 3/4" (12.9001)							8						
4A	179839	BOLT, 3/8"-16X1" (12.9001)			4			4				4			
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)									4				
4A	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)										2			
	179847	BOLT, 3/8"-16X2" (12.9001)			2		2	2			2				
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)							2						
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)							4						
	186291	BOLT, 3/8"-16X8 1/2" (12.9001)							2						
	179886	BOLT, 1/2"-13X1 5/8" (12.9001)							1						
	451700	BOLT, 1/2"-13X8" (12.9001)							2						
	193031	BOLT, 1/2"-13X8 3/4" (12.9001)							1						
	186643	BOLT, 5/8"-18X2 1/16" (12.9001)							6						
	120393	WASHER, 5/16" (12.9190)							50						

4.4000A OIL COOLER AND MARINE GEAR LINES

			TYPES												
..FIG	PART NUMBER	NAME AND DESCRIPTION	5 2 8	5 3 6	5 5 4	5 5 6	5 5 9	5 6 0	5 6 9	5 7 5	5 7 7	5 7 8	5 8 5	5 8 6	6 0 0
		4.4110 - ADAPTOR, OIL COOLER (CONT'D)													
	103341	WASHER, 3/8" (12.9190)							6			6			
	103343	WASHER, 1/2" (12.9190)							4						
	103320	LOCKWASHER, 5/16" (12.9200)							50						
4A	103321	LOCKWASHER, 3/8" (12.9200)			6		6	6	6		6	6			
	103323	LOCKWASHER, 1/2" (12.9200)							4						
	114493	NUT, 5/16"-24 (2.7170)							36						
		# INCLUDES (8) 5176182 STUDS AND (2) 5142549 PLUGS IN 4.4110.													
		= INCLUDES (4) 103196 STUDS AND (2) 5157933 DOWELS IN 4.4110.													
		% NOT SERVICED, FOR SERVICE USE 5103855 AND 1-5103906 GASKET.													
		4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK													
4A,B	5103906	GASKET,3,4-53			1		1	1			1				
4A,B	8923738	GASKET,3,4-53		3			3	3			3	4			
	5141919	GASKET,8V53							1						
	5141894	GASKET,8V53							2						
	5116416	GASKET,3-53 (5.1006)										1			
		4.4140 - VALVE, OIL COOLER BYPASS													
	5177777	VALVE,8V53							2						
		4.4150 - SPRING, OIL COOLER BYPASS VALVE													
	5126436	SPRING (4.1690)							2						
		4.4160 - PLUG, OIL COOLER BYPASS VALVE													
	5113657	PLUG (4.1710)							2						
		4.4170 - GASKET, OIL COOLER BYPASS VALVE PLUG													
	5177773	GASKET,8V53							2						
		4.4212 - GASKET, OIL COOLER WATER INLET CONNECTION													
	5133721	RING, SEAL							2						

4.4000A OIL COOLER

		TYPES											
PART		5	5	5	5	5	5	5	5	5	5	6	
.FIG . . . NUMBER NAME AND DESCRIPTION		2	3	4	5	6	6	7	7	7	8	8	0
		8	6		6	9	0	5	7	7	8	6	0
	4.4213 - HOSE, OIL COOLER WATER INLET												
D	5199777 * HOSE, 4-53 1 7/8" X 1 1/2" (5.3422)											1	1
	* STANDARD LENGTH HOSE, CUT TO LENGTH SHOWN.												
	4.4214 - CLAMP, OIL COOLER WATER INLET												
D	8920537 CLAMP, 1 9/16"-2 1/2" DIA. (12.9660)											1	1
	4.4242 - FLANGE, OIL COOLER WATER OUTLET												
	5138777 @ FLANGE, 6V53	1											
	5141173 FLANGE, 6V53	1											
	106327 BOLT, 5/16"-18X1 3/8" (12.9001)	2											
	103320 LOCKWASHER, 5/16" (12.9200)	2											
	@ NOT SERVICED. FOR REPLACEMENT												
	USE 5141173 FLANGE AND 5141210												
	SEAL RING IN 4.4244.												
	4.4244 - GASKET, OIL COOLER WATER OUTLET												
	FLANGE												
	5138776 # SEAL RING	1											
	5141210 SEAL RING	1											
	# NOT SERVICED. FOR REPLACEMENT												
	USE 5141210 SEAL RING AND												
	5141173 FLANGE IN 4.4242.												
	4.4330 - HOSE, MARINE GEAR OR TRANSMISSION												
	OIL OUTLET												
	5185394 HOSE ASSY., 3-53 (27"X13/32" I.D.)												
	(8.3830)					1							
	5123319 HOSE ASSY., 6V53 (53 1/2"X13/32" I.D.)							1					
4D	5144449 HOSE, 4-53, #8X39"L. (TEFLON)											1	
4D	5144471 HOSE, 4-53, #8X43"L. (TEFLON)												1
4D	5131492 HOSE, 6, 8V53, 13/32"X60"L. (12.4085)												1
	5144934 CLAMP, #8 (TEFLON COATED)											2	2
4D	118752 CONNECTOR, 1/2" TUBE X 3/8" P.T.											1	
	(12.9380)											1	
4D	144603 NIPPLE, 3/8"X3" PIPE (12.9560)											1	

4.4000A OIL COOLER

PART			TYPES												
..FIG	NUMBER	NAME AND DESCRIPTION	5 2 8	5 3 6	5 5 4	5 5 6	5 5 9	5 6 0	5 6 9	5 7 5	5 7 7	5 7 8	5 8 5	5 8 6	6 0 0
4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET (CONT'D)															
	120142	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9390)				2							1	1	
	111316	ELBOW, 1/2" TUBE X 3/8" P.T. (12.9390)								2					2
4D	5130294	ELBOW, 1/2" TUBE, 3/4" NPTF 45 DEG. (12.4090)												1	1
	142269	BUSHING, 1/2"X3/8" RED. (12.9570)								1					1
4D	186678	BOLT, 3/8"-16X1" (12.9001)												1	
4D	186628	BOLT, 3/8"-16 X 1 1/2" (12.9001)											1		
4D	186627	BOLT, 3/8"-24X1" (12.9001)											1	1	
	103341	WASHER, 3/8" (12.9190)											1	1	
	103321	LOCKWASHER, 3/8" (12.9200)											2	2	
	117049	NUT, 3/8"-24 (12.9120)											1	1	
4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET															
	5125902	HOSE ASSY., 3-53 (13/32"X16" L.) (2.5100)				1									
	5131492	HOSE ASSY., 6.8V53 (13/32"X60" L.) (12.4085)								1					1
4D	5144492	HOSE, 4-53, #8X30" L. (TEFLON) (4.4330)											1		
4D	5144458	HOSE, 4-53, #6X51" L. (TEFLON) (4.4330)												1	
	5144934	CLAMP, #8 (TEFLON COATED) (4.4330)											1	3	
4D	120142	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9390)											1	1	1
	111316	ELBOW, 1/2" TUBE X 3/8" P.T. (12.9390)								2					1
5D	5130294	ELBOW, 1/2" TUBE X 3/4" NPTF - 45 DEG. (12.4090)											1	1	
	142269	BUSHING, 1/2"X3/8" RED. (12.9570)								1					1
	144606	NIPPLE, 3/8"X1 1/2" PIPE (12.9560)								1					
	120127	NIPPLE, 3/8"X2 1/2" PIPE (12.9560)					1								
4D	144603	NIPPLE, 3/8"X3" PIPE (12.9560)				1							1	1	1
	444136	TEE, 3/8"X18" (12.9616)								1					
4.4345 - CLIP, OIL COOLER LINES															
	5171509	CLIP, 6V53 (5/8") (9.1591)								2					2
	5151189	CLIP (3/4") (4.8040)				3									
	5159393	BRACKET, CLIP (4.1575)				1									
	5173022	BRACKET (5.5379)											1	1	
	5114551	TAG, CABLE (7.4545)				2									2
	179816	BOLT, 5/16"-18X3/4" (12.9001)								1					

DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION													
		5 2 8	5 3 8	5 5 4	5 5 8	5 5 9	5 6 0	5 6 9	5 7 5	5 7 7	5 7 8	5 8 5	5 8 8	6 0 0	
4.4345 - CLIP, OIL COOLER LINES (CONT'D)															
186650	BOLT, 5/16"-18X4 3/4" (12.9001)								1						
186274	BOLT, 5/16"-18X5" (12.9001)								1					1	
179838	BOLT, 3/8"-16X7/8" (12.9001)				1										
186622	BOLT, 3/8"-16X1 1/4" (12.9001)				1										
120393	WASHER, 5/16" (12.9190)								1						
103321	LOCKWASHER, 3/8" (12.9200)				1										
102635	NUT, 3/8"-16 (12.9120)				1										

DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER AND MARINE GEAR LINES

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 0 1	6 1 0	6 1 8	6 2 5	6 3 3	6 3 4	6 3 6	6 5 3	6 7 5	7 0 6	7 5 7
4.4001 - CORE, OIL COOLER-ENGINE													
4B,C	8545373	CORE ASSY.,4-53,8V53 (12 PLATE)			1								1
	5142436	CORE ASSY.,8V53			1								
	5142388	CORE ASSY.,8V53			1								
	8534719	# CORE ASSY.,6,8V53 (8 PLATE)	1			1	1	1	1		1		
	8502549	CORE ASSY.,3-53 (6 PLATE)		2									
4A	8501328	CORE ASSY.,3-53 (6 PLATE)										2	
	2325715	ELBOW, 1/2"-90 DEG. (3.5505)	2					2					
	8923313	PLUG, 3/4" (12.9550)			2								
4D	179816	BOLT, 5/16"-18X3/4" (12.9001)	8								8		
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)				8	8	8	8				
	455971	BOLT, 5/16"-18X5 1/2" (12.9001)										8	
4D	103320	LOCKWASHER, 5/16" (12.9200)	8			8	8	8	8		8	8	
		# INCLUDES NUT AND RING IN 4.4001.											
4.4030 - GASKET, OIL COOLER CORE-INNER													
4A,B,C	5150155	GASKET	1	2	1					1		2	2
	5144703	GASKET (5.5050)				1	1	1	1		1		
4.4040 - GASKET, OIL COOLER CORE-OUTER													
4A,B,C	5102506	GASKET		2	1					1		2	1
4.4050 - HOUSING, OIL COOLER-ENGINE													
	5116489	HOUSING, 3-53		1								1	1
4.4060 - COVER, OIL COOLER HOUSING													
4B	5123214	+ COVER,3,4-53,6V53								1		1	
	5146505	COVER, 4-53											1
10B	5188862	+ COVER,3-53		1									
	142269	BUSHING, 1/2"X3/8" RED. (12.9570)				2					2		
	142767	BUSHING, 3/4"X3/8" RED. (12.9570)								2			
	431538	CONNECTOR, 1/2" TUBE, 3/8" PT. INV. (12.9460)								2			
	111316	ELBOW, 90 DEG.-3/8" STREET (12.9590)				2							
	118757	ELBOW, 90 DEG.-1/2" TUBE (12.9390)									2		
	9432248	ELBOW, 3/8" INV. FLARED TUBE (12.9480)											
	103647	DRAINCOCK, 1/4" (12.9510)		1						1			1
	5115214	PLUG, 1/2" PIPE (12.9550)											2
	179823	BOLT, 5/16"-18X1 5/8" (12.9001)											
	186648	BOLT, 5/16"-18X1 7/8" (12.9001)								6			
4B	455971	BOLT, 5/16"-18X5 1/2" (12.9001)		1						2			
	103320	LOCKWASHER, 5/16" (12.9200)		8						8			8
		+ NOT SERVICED, FOR SERVICE USE 5107975 AND 2-5142549 PLUGS.											

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 0 1	6 1 0	6 1 6	6 2 5	6 3 3	6 3 4	6 3 6	6 5 3	6 7 5	7 0 6	7 5 7	
4.4110 - ADAPTOR, OIL COOLER														
	5123414	% ADAPTOR,3,4-53		1								1		
	5109685	ADAPTOR,8V53			1									
	5141424	# ADAPTOR ASSY.,8V53 (TO BLOCK)			1									
	5141427	= ADAPTOR ASSY.,8V53 (FRONT)			1									
	5141426	* ADAPTOR ASSY.,8V53			1									
	5103855	ADAPTOR, 4-53											1	
	5115214	PLUG, 1/2" PIPE (12.9550)			1									
	8923313	PLUG, 3/4"-14 PIPE (12.9550)			2									
	103175	STUD, 5/16"-18-24X1.50" (12.9117)			4									
	5150362	STUD, 3/8"-16X24X1 9/16" (12.9117)			4									
	5176182	STUD, 3/8"-16X1 13/16" OIL CLR. (4.4050)			8									
	5157933	DOWEL, 5/16"X7/8" (3.4140)			4									
	180083	BOLT, 5/16"-18X1 1/2" (12.9001)			5									
	186648	BOLT, 5/16"-18X1 7/8" (12.9001)			3									
	181342	BOLT, 5/16"-24X1 3/8" (12.9001)			24									
	181350	BOLT, 5/16"-24X2 3/4" (12.9001)			8									
4A	179839	BOLT, 3/8"-16X1" (12.9001)		4								4		
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)											4	
	179847	BOLT, 3/8"-16X2" (12.9001)		2								2	2	
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)			2									
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)			4									
	186291	BOLT, 3/8"-16X8 1/2" (12.9001)			2									
	179886	BOLT, 1/2"-13X1 5/8" (12.9001)			1									
	451700	BOLT, 1/2"-13X8" (12.9001)			2									
	193031	BOLT, 1/2"-13X8 3/4" (12.9001)			1									
	186643	BOLT, 5/8"-18X2 1/16" (12.9001)			6									
	120393	WASHER, 5/16" (12.9190)			50									
	103341	WASHER, 3/8" (12.9190)			8									
	103343	WASHER, 1/2" (12.9190)			4									
	103320	LOCKWASHER, 5/16" (12.9200)			50									
	103321	LOCKWASHER, 3/8" (12.9200)		6	8							6	6	
	103323	LOCKWASHER, 1/2" (12.9200)			4									
	114493	NUT, 5/16"-24 (2.7170)			36									
		# INCLUDES (8) 5176182 STUDS AND (2) 5142549 PLUGS IN 4.4110.												
		= INCLUDES (4) 103196 STUDS AND (2) 5157933 DOWELS IN 4.4110.												
		* INCLUDES (4) 103175 STUDS AND (2) 5157933 DOWELS IN 4.4110.												
		% NOT SERVICED, FOR SERVICE USE 5103855 AND 1-5103906 GASKET.												
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK														
4A,B	5103906	GASKET,3,4-53		1								1		
4A,B	8923738	GASKET,3,4-53		3								3	3	
	5141894	GASKET,8V53			2									
	5141919	GASKET,8V53			1									
4A,B	5103906	GASKET, 4-53											1	

53 M P C E N G I N E S

DETROIT DIESEL

4.4000A OIL COOLER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 0 1	6 1 0	6 1 6	6 2 5	6 3 3	6 3 4	6 3 6	6 5 3	6 7 5	7 0 6	7 5 7
		4.4140 - VALVE, OIL COOLER BY-PASS											
	5177777	VALVE, 8V53				2							
		4.4150 - SPRING, OIL COOLER BY-PASS VALVE											
	5126436	SPRING, 8V53 (4.1690)				2							
		4.4160 - CLIP, OIL COOLER BY-PASS VALVE											
	5113657	PLUG (4.1710)				2							
		4.4170 - GASKET, OIL COOLER BY-PASS VALVE PLUG											
	5177773	GASKET				2							
		4.4212 - GASKET, OIL COOLER WATER INLET CONNECTION											
	5133721	RING, SEAL				2							
		4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET											
4D	5147571	HOSE ASSY., 6V53 (#6 X 100") (TEFLON) (4.1597)								1			
4D	5147580	HOSE ASSY., 6V53 (#8 X 33.5") (TEFLON) (4.4335)								1			
4D	5123319	HOSE ASSY., 6V53 (53 1/2" X 13/32" I.D.)							1				
4D	5123318	HOSE ASSY., 6V53 (13/32" X 47")					1						
4D	5131492	HOSE, 6, 8V53 13/32" X 60" L. (12.4085)	1			1					1		
4D	9432266	CONNECTOR, 3/8" TUBE, 1/8" PT. (12.9460)								1			
4D	118752	CONNECTOR, 1/2" TUBE X 3/8" P.T. (12.9390)							1				
4D	144606	NIPPLE, 3/8" X 1 1/2" PIPE (12.9560)	1										
4D	144603	NIPPLE, 3/8" X 3" PIPE (12.9560)				1					1		
4D	120142	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9390)				1					1		
4D	118757	ELBOW, 3/8" X 1 1/2" PIPE (12.9390)							2				
4D	144128	ELBOW, 3/8" 90 DEG. PIPE (12.9660)	1					1	1				
4D	111316	ELBOW, 1/2" TUBE X 3/8" P.T. (12.9390)	1				2						
4D	137425	ELBOW, 1/2" TUBE X 3/8" P.T. (INV. FLARED) (12.9480)								1			

4.4000A OIL COOLER

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	601	610	616	625	633	634	636	653	675	706	757
4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET (CONT'D)													
ID	143340	ELBOW, 1/2" TUBE X 3/8" P.T. 45 DEG. (12.9480)								1			
	142269	BUSHING, 1/2"X3/8" RED. (12.9570)					2		1				
	120393	WASHER, 5/16" (12.9190)							1				
	103320	LOCKWASHER, 5/16" (12.9200)							1				
4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET													
4D	5147579	HOSE ASSY.,6V53 (8X26.5") (TEFLON) (4.4330)								1			
4D	5131492	HOSE ASSY.,6,8V53 (13/32"X60" L) (12.4085)									1		
4D	5133611	HOSE ASSY.,8V53 (9.1587)	1			1	1	1	1				
4D	120142	ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9390)						1					
4D	118757	ELBOW, 3/8"X1/2" PIPE (12.9390)					2		1				
4D	111316	ELBOW, 1/2" TUBE X 3/8" P.T. (12.9390)	1			1		2					
	118752	CONNECTOR, 1/2" TURE X 3/8" P.T. (12.9390)	1								1		
	142269	BUSHING, 1/2"X3/8" RED. (12.9570)							1				
4D	144606	NIPPLE, 3/8"X1 1/2" PIPE (12.9560)							1	1			
4D	144603	NIPPLE, 3/8"X3" PIPE (12.9560)					2						
	444136	TEE, 3/8"X18" (12.9616)						1	1				
4.4345 - CLIP, OIL COOLER LINES													
	5171509	CLIP,6V53 (5/8") (9.1591)				2	2		2				
	5151189	CLIP (3/4") (4.8040)	4					4			4		
	5144934	CLIP, HOSE #8 TEFLON (4.4330)								2			
	5173022	BRACKET (5.5379)	1					1		1			
	5181325	BRACKET (4.8042)									1		
	5114551	TAG, CABLE (7.4545)				2	2				1		
	186625	BOLT, 5/16"-18X7/8" (12.9001)									1		
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)	1					1					
	179816	BOLT, 5/16"-18X3/4" (12.9001)							1				
	186650	BOLT, 5/16"-18X4 3/4" (12.9001)							1				
	186274	BOLT, 5/16"-18X5" (12.9001)				1	1		1		1		
	186627	BOLT, 3/8"-24X1" (12.9001)	1					1		1		1	
	120393	WASHER, 5/16" (12.9190)							1				
	103320	LOCKWASHER, 5/16" (12.9200)									1		
	103321	LOCKWASHER, 3/8" (12.9200)	1					1		1			
	117049	NUT, 3/8"-24 (12.9120)	1					1		1			

4.4000A OIL COOLER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	601	610	618	625	633	634	636	653	675	706	757
	4.4345	CLIP, OIL COOLER LINES (CONT'D)											
	120376	NUT, 5/16"-18 (12.9120)									1		

4.4000A OIL COOLER AND MARINE GEAR LINES

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	7 6 9	7 7 0	7 7 2	7 7 7	7 7 8	7 8 6	7 8 7	7 8 8	7 8 9	7 9 0	7 9 1	7 9 3	7 9 4
4.4001 - CORE, OIL COOLER-ENGINE															
	NPN	CORE ASSY., 6V53 (18 PLATE)	1												
4B	8545373	CORE ASSY., 453 TURBO (12 PLATE)		1	1						1	1	1	1	1
4B	8528885	CORE ASSY., 6V53 (16 PLATE)					1					1		1	1
	8534719	CORE ASSY., 6V53 (8 PLATE)						1							
4B	8539953	CORE ASSY., 4-53 (8 PLATE)							2	1			1		
	179816	BOLT, 5/16"-18 X 3/4" (12.9001)						8							
	103320	LOCKWASHER, 5/16" (12.9200)						8							
4.4030 - GASKET, OIL COOLER CORE-INNER															
4A,B,C	5150155	GASKET	1	2	1		1			2	3	2	2	2	2
	5144703	GASKET (5.5050)						1							
4.4040 - GASKET, OIL COOLER CORE-OUTER															
4A,B,C	5102506	GASKET	1	1	1		1			2	2	2	2	2	
4A,B,C	8923223	GASKET													2
4.4050 - HOUSING, OIL COOLER-ENGINE															
	NPN	HOUSING, 6V53	1												
	5116490	HOUSING, 4-53		1											
	5103446	HOUSING, 4-53			1										
	5106671	HOUSING, 6V53					1								
4B	5116491	HOUSING, 4-53								1	1				
	5135914	HOUSING, 6V53										1		1	
	5130360	HOUSING, 4-53											1		
	5140391	HOUSING, 6V53													1
	8923313	PLUG, 3/4" PIPE (12.9550)	2		1		1					1			1
	5121182	PLUG, 1/4" PIPE (2.4015)	2												
4A,B,C	103647	DRAINCOCK, 1/4" (12.9510)		1	1		2		1	1	1	1	1	1	2
	186270	BOLT, 5/16"-18 X 3 1/2" (12.9001)											2		
	186650	BOLT, 5/16"-18 X 4 3/4" (12.9001)											3		
	186274	BOLT, 5/16"-18 X 5" (12.9001)			8										
	215404	BOLT, 5/16"-18 X 5 3/4" (12.9001)	6				6								
4B	215386	BOLT, 5/16"-18 X 6" (12.9001)										5		5	
	120393	WASHER, 5/16" (12.9190)	6				6								
4B	103320	LOCKWASHER, 5/16" (12.9200)			8							5	5	5	
4.4051 - HOUSING, MARINE GEAR OIL COOLER															
	5121183	HOUSING, 3-53					1								
	5122566	HOUSING, 3-53				1	1								
	179819	BOLT, 5/16"—18X1 1/8" (12.9001)				1	1								
	186274	BOLT, 5/16"—18X5" (12.9001)				1	1								
	103320	LOCKWASHER, 5/16" (12.9200)				2	2								
4.4055 - GASKET, OIL COOLER HOUSING															
4D	5116357	GASKET (1.1070)				1	1								

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES												
..FIG	NUMBER	NAME AND DESCRIPTION	7 6 9	7 7 0	7 7 2	7 7 7	7 7 8	7 8 6	7 8 7	7 8 8	7 8 9	7 9 0	7 9 1	7 9 3	7 9 4
4.4060 - COVER, OIL COOLER HOUSING															
	5102389	COVER AND ELEMENT ASSY. (INCLUDES GASKET)				1	1			1					
	5188862	+ COVER, 4-53								1					
4B	5123214	+ COVER, 6V53									1				
	5107975	COVER, 6V53										1	1	1	1
	5146505	COVER, 4-53		1											
	5129499	SPACER, 1 3/16" THR (4.4050)								1					
	5115214	PLUG, 1/4" PIPE (12.9550)		1											
	8923313	PLUG, 3/4" PIPE (12.9550)										2	2	2	2
	186618	BOLT, 5/16"-18X5/8" (12.9001)				8	8								
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)											4		
4B	186624	BOLT, 5/16"-18X1 1/4" (12.9001)										4		4	4
4B	179826	BOLT, 5/16"-18X2" (12.9001)										1	1	1	1
	455971	BOLT, 5/16"-18X5 1/2" (12.9001)		8									3		
	215386	BOLT, 5/16"-18X6" (12.9001)													5
	214054	BOLT, 5/16"-18X6 1/4" (12.9001)										3			
	446597	BOLT, 5/16"-18X6 1/2" (12.9001)								8					
4B	447188	BOLT, 5/16"-18X6 3/4" (12.9001)												3	
	180737	BOLT, 5/16"-18X7" (12.9001)													3
	216857	BOLT, 5/16"-18X8" (12.9001)									6				
	9428440	BOLT, 5/16"-18X8 1/2" (12.9001)									2				
4B	120393	WASHER, 5/16" (12.9190)											8	8	8
4B	103320	LOCKWASHER, 5/16" (12.9200)				8	8	8		8	8	8	8	8	10
		+ NOT SERVICED, FOR SERVICE USE 5107975 AND 2-5142549 PLUGS.													
4.4061 - GASKET, OIL COOLER HOUSING COVER															
	5120896	GASKET				1	1								
4.4110 - ADAPTOR, OIL COOLER															
4A	5103907	ADAPTOR, 4-53		1	1								1		
	5103855	ADAPTOR, 4-53								1	1				
4A,B	186622	BOLT, 3/8"-16X1 1/4" (12.9001)		4	4					4	4		4		
4A,B	179847	BOLT, 3/8"-16X2" (12.9001)		2	2					2	2		2		
4A,B	103321	LOCKWASHER, 3/8" (12.9200)		6	8			6		6	6		6		
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK															
4A,B	8923738	GASKET		3	3					3	3		3		
4A,B	5103906	GASKET, 4-53		1	1					1	1		1		
4.4330 - HOSE, MARINE GEAR OR TRANSMISSION OIL OUTLET															
4D	5131492	HOSE, 6V53, 13/32"X60" L. (12.4085)							1						
4D	8924220	ELBOW 1/2" TUBE (90 DEG.) (3.5505)							1						
4D	8924150	ELBOW, 3/8"X1/2" PIPE (12.9390)							1						

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 6 9	7 7 0	7 7 2	7 7 7	7 7 8	7 8 6	7 8 7	7 8 8	7 8 9	7 9 0	7 9 1	7 9 3	7 9 4
		4.4335 - HOSE, MARINE GEAR OR TRANSMISSION OIL INLET													
4D	5133611	HOSE ASSY., 6V53 (9.1587)								1					
4D	2325715	ELBOW, 1/2" TUBE (90 DEG.) (3.5505)								1					
4D	118757	ELBOW, 3/8" X 1/2" PIPE (12.9390)								1					
	121207	NIPPLE, 3/8" X 1" PIPE (12.9560)								1					
	444122	TEE, 3/8"-18 PIPE (12.9616)								1					
		4.4345 - CLIP, OIL COOLER LINES													
	2362448	CLIP, 1/2" NEOPRENE (12.8554)								2					
	5187818	BRACKET (9.3541)								1					
	5101020	STRAP, NYLON TIE (2.5255)								3					
	179839	BOLT, 3/8"-16 X 1" (12.9001)								1					
	103321	LOCKWASHER, 3/8" (12.9200)								1					
	102635	NUT, 3/8"-16 (12.9120)								1					

DETROIT DIESEL

53 MPC ENGINES

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 9 6	7 9 7	7 9 8	7 9 9	8 0 0	8 0 1	8 0 2	8 0 3	8 0 4	8 0 5	8 0 6	8 0 7	8 1 2
4.4001 - CORE, OIL COOLER-ENGINE															
4B	8539953	CORE ASSY., 3, 4-53 (8 PLATE)	1	2			1			2	2		2		1
4B	8545373	CORE ASSY., 3, 4, 8V53 (12 PLATE)	1				1					1			
4B	8501328	CORE ASSY., 3-53 (6 PLATE)			2			2	2						
4B	8528885	CORE ASSY., 6V53 (16 PLATE)				2						1			
4B	8502833	CORE ASSY., 6V53 (12 PLATE)												1	
4B	8532253	CORE ASSY., 6V53 (16 PLATE)												1	
4.4030 - GASKET, OIL COOLER CORE-INNER															
4A,B,C	5150155	GASKET	3	2	2	2	3	2	2	2	2	2	2	2	1
4.4040 - GASKET, OIL COOLER CORE-OUTER															
4A,B,C	5102506	GASKET	2	2	2	2	2	2	2	2	2	2	2	2	
4B	8923223	GASKET													1
4.4050 - HOUSING, OIL COOLER-ENGINE															
4B	5116491	HOUSING, 3, 4-53	1	1			1			1			1		
	5116489	HOUSING, 3-53			1			1							
	5133427	HOUSING, 6V53				1									
	5116490	HOUSING, 3-53							1						
	5116492	HOUSING, 3, 4-53													
	5135914	HOUSING, 6V-53										1		1	
	5103446	HOUSING, 6V-53													1
4A,B,C	103647	DRAINCOCK, 1/4" (12.9510)	1	1	1	1	1	1	1	1	1	1	1	1	1
	8924140	DRAINCOCK, 1/4" (12.9510)													1
	8923313	PLUG, 3/4" SQ. SOCK. (12.9550)													1
4B	215386	BOLT, 5/16"-18 X 6" (12.9001)				5						5		5	
	186274	BOLT, 5/16"-18X5" (12.9001)													8
4B	120393	WASHER, 5/16" (12.9100)				5									
4B	103320	LOCKWASHER, 5/16" (12.9200)				5						5		5	8
4.4060 - COVER, OIL COOLER HOUSING															
	5107975	COVER, 4-53	1	1	1	1	1	1	1	1	1	1	1	1	
	5129499	SPACER, 1 3/16" THK. (4.4050)	1				1								
	8923313	PLUG, 3/4" PIPE (12.9550)	2	2	2	2	2	2	2	2	2	2	2	3	
	5102982	PLUG, 3/4" PIPE (12.9550)				2									
	8924164	NIPPLE, 3/4" X 1 3/8" PIPE (12.9560)				1									
	187398	COUPLING, 3/4" PIPE (12.9580)				1									
	5133960	STUD, 5/16"-18-24 X 9.60" (12.9117)				3									
4B	186624	BOLT, 5/16"-18 X 1 1/4" (12.9001)				4								4	
4B	179823	BOLT, 5/16"-18 X 1 5/8" (12.9001)				1									
4B	179826	BOLT, 5/16"-18 X 2" (12.9001)												1	
4B	272545	BOLT, 5/16"-18 X 5 1/4" (12.9001)			7										
4B	455971	BOLT, 5/16"-18 X 5 1/2" (12.9001)						7	7						
4B	215386	BOLT, 5/16"-18 X 6 (12.9001)			1										
4B	214054	BOLT, 5/16"-18 X 6 1/4" (12.9001)						1	1						
4B	446597	BOLT, 5/16"-18 X 6 1/2" (12.9001)		7						7	7		7		
4B	447188	BOLT, 5/16"-18 X 6 3/4" (12.9001)										3		3	
4B	180737	BOLT, 5/16"-18 X 7" (12.9001)		1											

4.4000A OIL COOLER AND MARINE GEAR LINES

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 9 6	7 9 7	7 9 8	7 9 9	8 0 0	8 0 1	8 0 2	8 0 3	8 0 4	8 0 5	8 0 6	8 0 7	8 1 2
4.4060 - COVER, OIL COOLER HOUSING (CONT'D)															
4B	9437758	BOLT, 5/16"-18X7 1/4" (12.9001)								1	1		1		
4B	274682	BOLT, 5/16"-18X7 3/4" (12.9001)					7								
4B	216857	BOLT, 5/16"-18X8" (12.9001)	7												
4B	9428440	BOLT, 5/16"-18X8 1/2" (12.9001)	1				1								
4B	120393	WASHER, 5/16" (12.9190)	8	8	8	8		8	8	8	8	8	8	8	
4B	103320	LOCKWASHER, 5/16" (12.9200)	8	8	8	8	8	8	8	8	8	8	8	8	
	114493	LOCKNUT, 5/16"-24 (2.7170)				3									
4.4110 - ADAPTOR, OIL COOLER															
	5103855	ADAPTOR, 4-53	1	1	1		1	1		1			1		1
4B	5123413	+ ADAPTOR, 3-53							1		1				
4B	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	4	4	4		4	4	4	4	4		4		
4B	8921932	BOLT, 3/8"-16X1 1/4" (12.9001)													4
4B	179847	BOLT, 3/8"-16X2" (12.9001)	2	2	2		2	2	2	2	2		2		2
	5145225	WASHER, .39" COPPER (2.7001)													4
4B	5138619	WASHER, 25/64" (4.1512)													4
4B	103321	LOCKWASHER, 3/8" (12.9200)	6	6	6		6	6	6	6	6		6		
		+ NOT SERVICED, FOR SERVICE USE 5103907 AND 1-5103906 GASKET.													
4.4115 - GASKET, OIL COOLER ADAPTOR TO BLOCK															
4A,B	8923738	GASKET, 6V53	3	3	3		3	3	3	3	3		3		3
4A,B	5103906	GASKET, 4-53	1	1	1		1	1	1	1	1		1		1
4.4211 - CONNECTION, OIL COOLER WATER INLET															
	5108605	ELBOW (5.3420)				1									
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)				2									
	103341	WASHER, 3/8" (12.9190)				2									
	103321	LOCKWASHER, 3/8" (12.9200)				2									
4.4212 - GASKET, OIL COOLER WATER INLET CONNECTION															
	5120540	GASKET (4.5007)				1									