

DETROIT DIESEL

V-53 Parts Catalog



GROUP NOMENCLATURE

1.0000	ENGINE MECHANICAL ASSEMBLY	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.3000B	Water Connections
1.1000A	Air Box Ducts	5.4000A	Fan
1.2000	Cylinder Head	5.4000B	Fan Shroud
1.2000A	Engine Valve Guides	5.5000A	Heat Exchanger or Keel Cooling
1.3000	Crankshaft, Oil Sump and Standby	5.6000A	Raw Water Pump
1.3000A	Crankshaft Front Cover	5.7000A	Water Filter
1.3000B	Valvetrain Dampers		
1.3000C	Crankshaft Pulley	6.0000	EXHAUST SYSTEM
1.3000D	Crankshaft Pulley Set	6.1000A	Exhaust Manifold and/or Connections
1.4000A	Flywheel	6.2000A	Exhaust Muffler and/or Connections
1.4000B	Hydraulic Housing		
1.5000A	Hydraulic Housing Adapter	7.0000	ELECTRICAL INSTRUMENTS
1.6000	Connecting Rod and Pinion	7.1000A	Battery Charging Generator
1.7000	Camshaft and Gear Train	7.2000A	Battery Cables
1.7000A	Balance Weight Cover	7.2000B	Automatic Starting
1.7000B	Accessory Drive	7.2000C	Automatic Starting (Twin and Quad)
1.8000	Valve Adjuster Operating Mechanism	7.3000A	Starting Motor
1.8000A	Rocker Cover	7.4000A	Instruments
		7.4000B	Instruments (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Tachometer Drive
2.1000A	Fuel Injection	7.4000D	Tachometer Drive (Twin and Quad)
2.1000B	Electronic Injector Controls	7.4000E	Shutoff, Alarm and O.S. Governor
2.2000	Fuel Pump	7.4000F	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000A	Fuel Pump Drive	7.5000A	Power Generator
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet
2.3000B	Fuel Filter and Strainer (Twin and Quad)	7.6000B	Control Cabinet (Twin and Quad)
2.4000	Fuel Manifold and/or Connections	7.7000A	Wiring Harness
2.4000A	Dual Fuel System	7.8000A	Air Heater
2.5000A	Fuel Lines and Fuel Crossover	7.8000B	Air Heater (Twin and Quad)
2.5000B	Fuel Lines and Fuel Crossover (Twin and Quad)	7.9000A	Hydraulic Governor Solenoid
2.6000A	Fuel Tank		
2.6000B	Electric Governor	8.0000	POWER TAKE-OFF
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch
2.8000A	Hydraulic Governor	8.1000B	Power Take-off and/or Clutch (Twin and Quad)
2.9000	Ignition Controls	8.3000A	Torque Converter
2.9000B	Ignition Controls (Twin and Quad)	8.3000B	Torque Converter (Twin and Quad)
2.9000C	Ignition Controls	8.3000C	Transmission Lines
2.9000D	Ignition Controls (Twin and Quad)		
3.0000	AIR SYSTEM	9.0000	TRANSMISSION AND PROPULSION
3.1000A	Air Diesel Engine Adapter	9.1000A	Hydraulic Marine Gear
3.2000A	Air Separator	9.1000B	Hydraulic Marine Gear (Twin and Quad)
3.3000A	Air Intake Manifold	9.2000A	Reverse and Reduction Gear (mechanical)
3.3000B	Air Intake Manifold	9.3000A	Power Transfer Gear
3.4000	Blower and Drive	9.3000B	Power Transfer Gear (Twin and Quad)
3.4000A	Blower Drive Shaft	9.4000	Transmission—Highway
3.4000B	Blower Drive Shaft Cover	9.7000	Transmission—Off-highway
3.5000A	Turbocharger, Intercooler and Aftercooler	9.9000	Transmission—Rail Car
4.0000	LUBRICATING SYSTEM	10.0000	SHEET METAL
4.1000A	Oil Pump	10.1000A	Engine Hood
4.1000B	Oil Distribution System		
4.1000C	Oil Pressure Regulator	11.0000	ENGINE MOUNTING
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base
4.3000A	Oil Filter Lines	11.1000B	Engine Mounting and Base (Twin and Quad)
4.4000A	Oil Cooler and Marine Gear Lines		
4.5000A	Oil Filler	12.0000	MISCELLANEOUS
4.6000A	Dipstick	12.2000A	Bilge Pump
4.7000A	Oil Pan	12.3000A	Vacuum Pump
4.8000A	Ventilating System	12.4000A	Air Compressor
		12.5000A	Hydraulic Pump
5.0000	COOLING SYSTEM	12.6000A	Gasoline Starter
5.1000	Raw Water Pump	12.6000B	Air Starter
5.2000A	Raw Water Pump Cover	12.6000C	Cold Weather Starting Aid
5.3000A	Water Cooler, Motorized and/or	12.8000D	Hydraulic Starter
5.3000B	Thermostat	12.8000E	Hydraulic Starter Accessories
5.3000C	Water System, Lube	12.8000F	Supplies
5.3000D	Water Pump	12.8000G	Fabrication Material
		12.8000H	Miscellaneous Service Kits and Sets
		12.8000I	Miscellaneous Service Parts

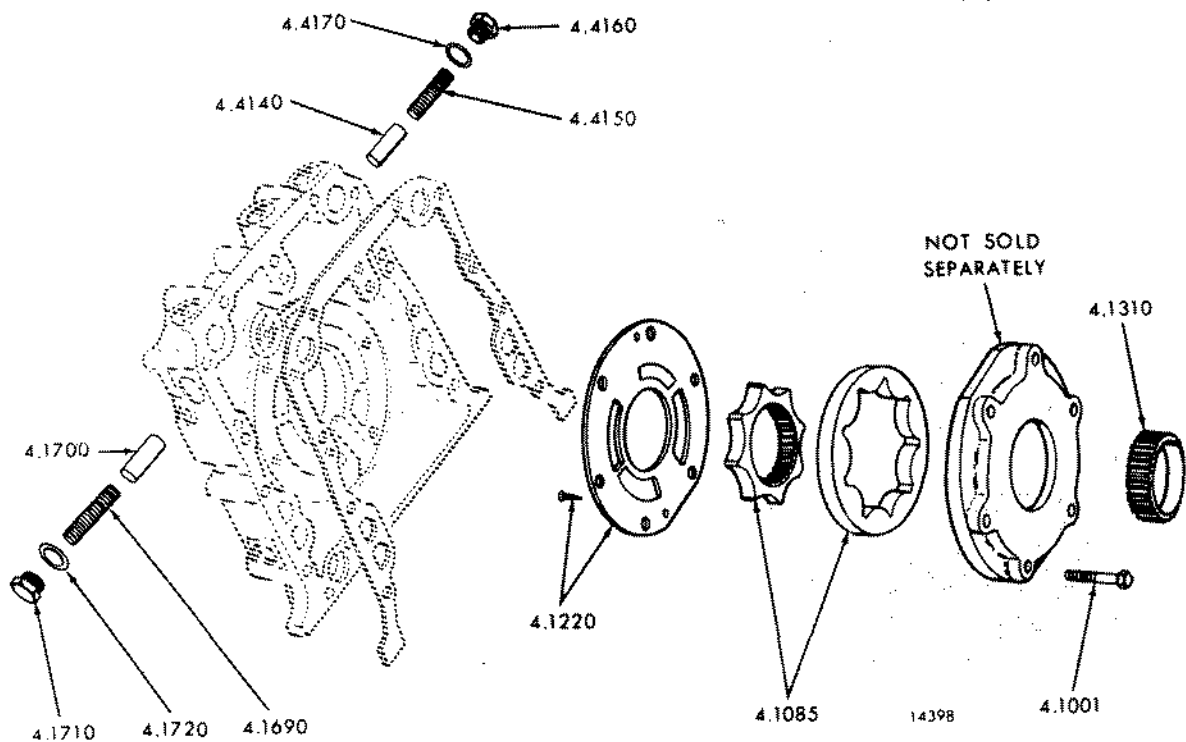


FIG. 1A OIL PUMP AND PRESSURE REGULATOR (In-Line Models)

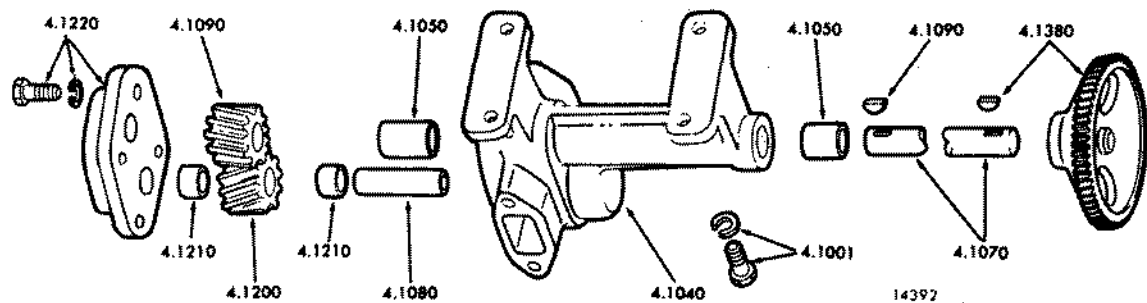


FIG. 1B OIL PUMP (8V)

Figs. 1A & 1B of 4.0000

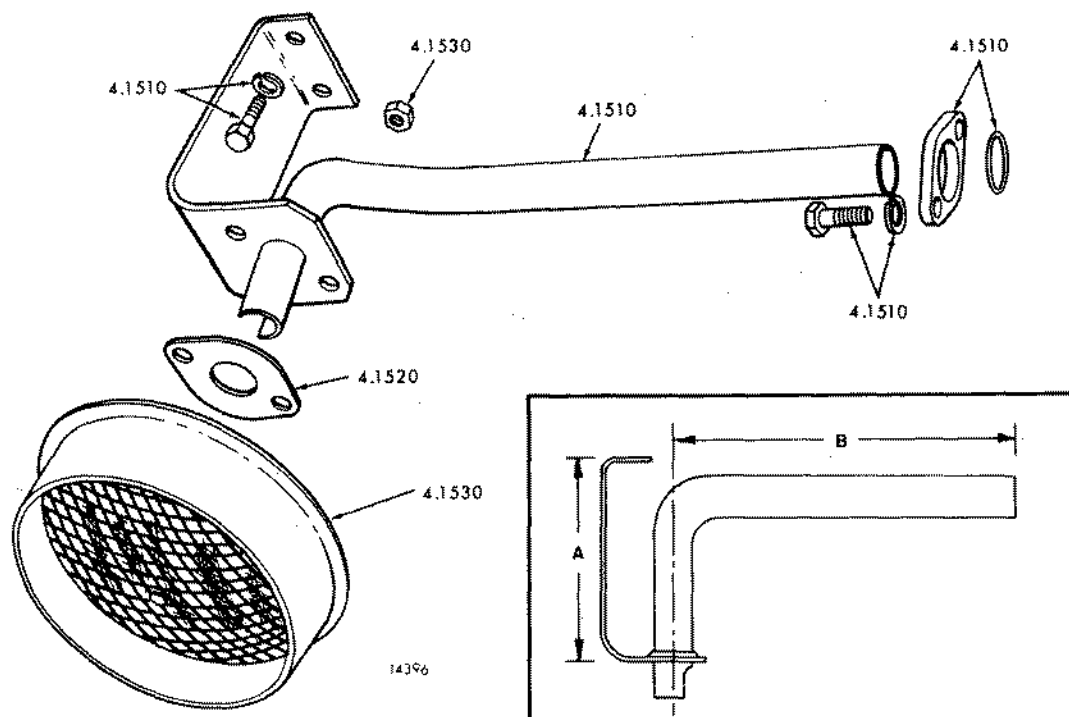


FIG. 2A OIL DISTRIBUTION SYSTEM

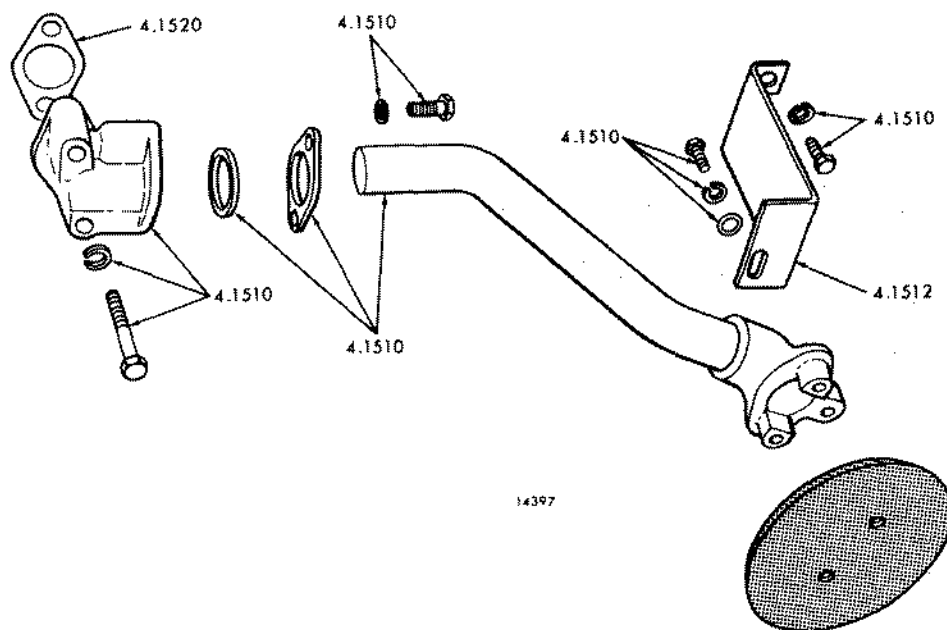


FIG. 2B OIL DISTRIBUTION SYSTEM (8V)

Figs. 2A & 2B of 4.0000

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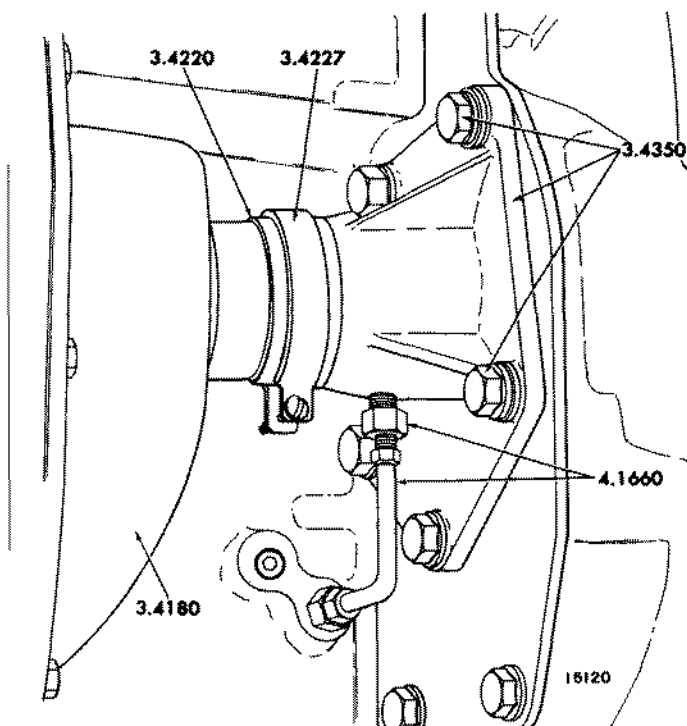


FIG. 2C OIL DISTRIBUTION SYSTEM

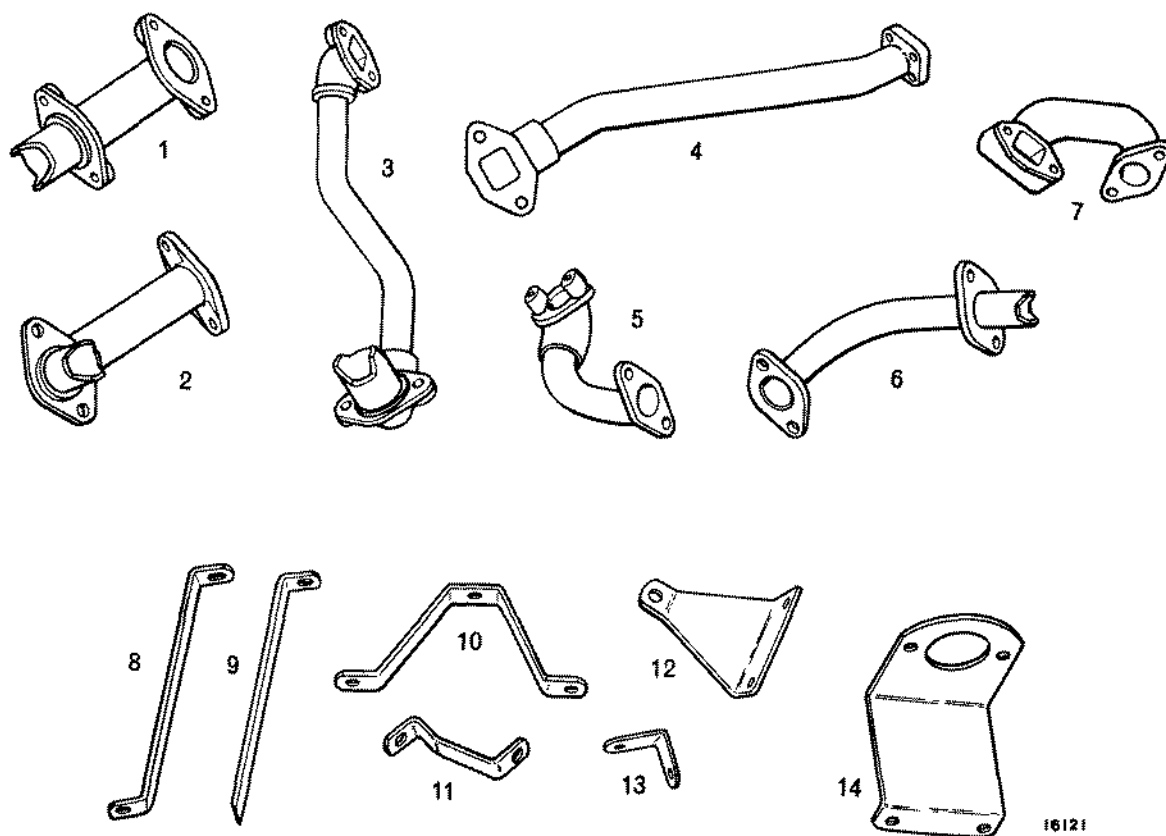


FIG. 2D OIL INLET PIPES

Figs. 2C & 2D of 4.0000

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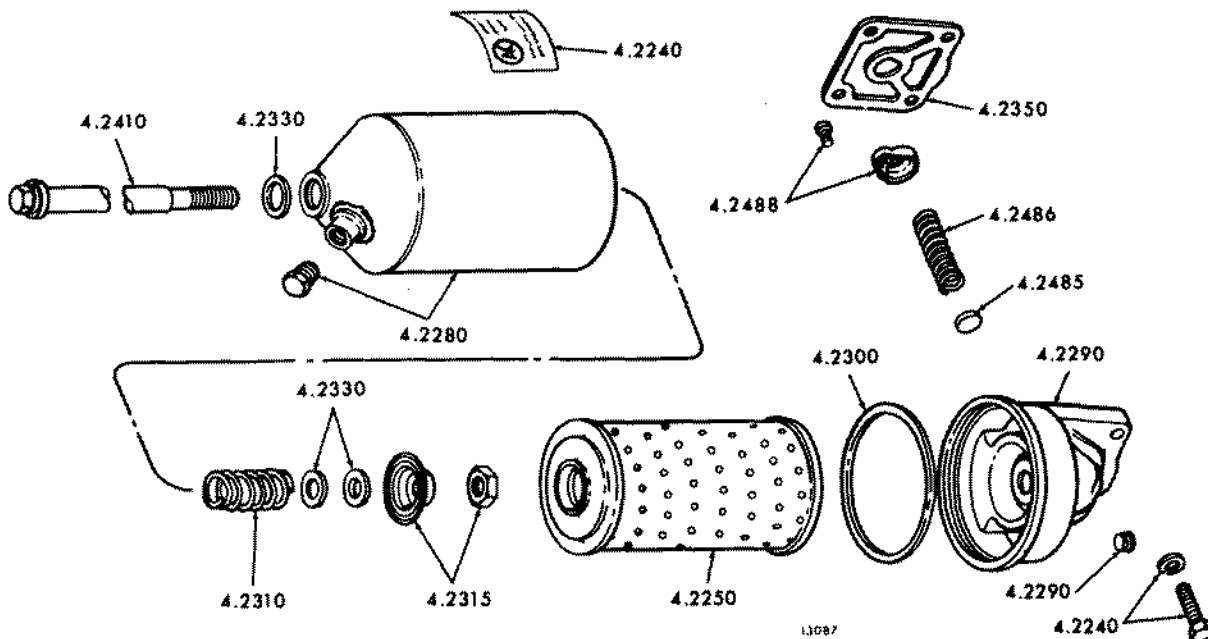


FIG. 3A OIL FILTER

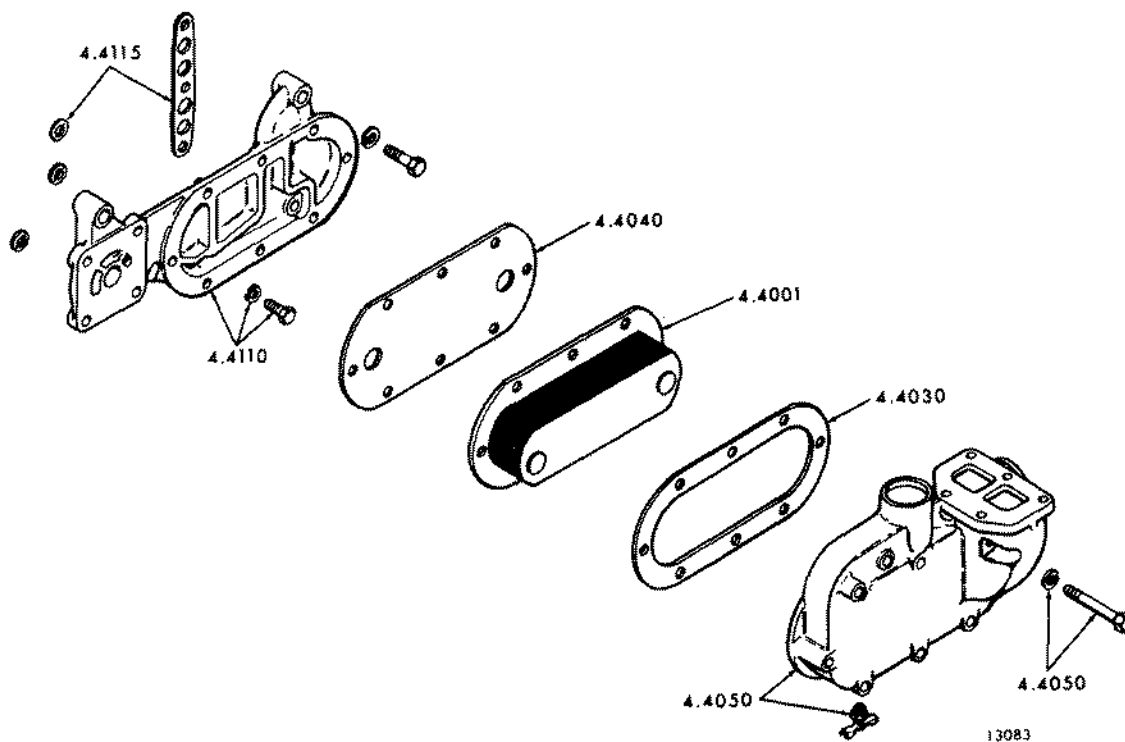


FIG. 4A OIL COOLER

Figs. 3A & 4A of 4.0000

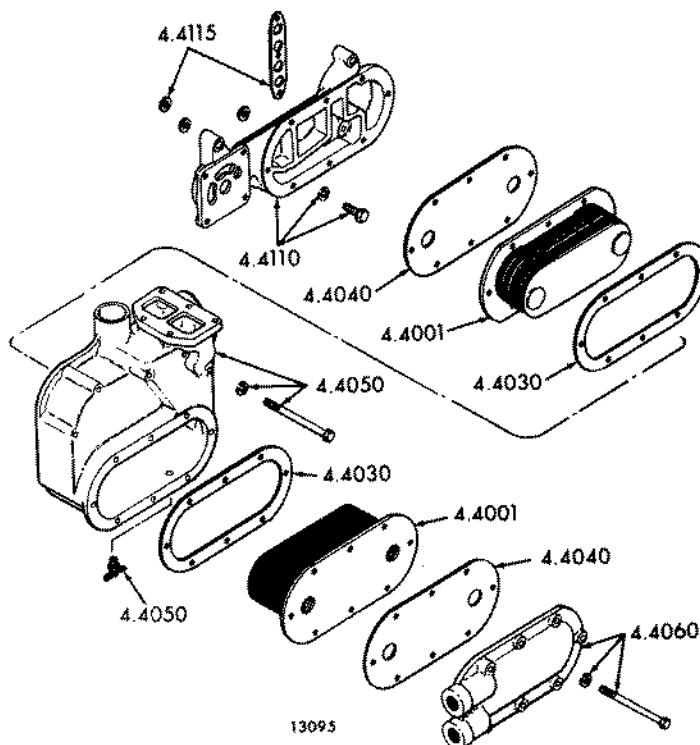


FIG. 4B TORQUE CONVERTER OIL COOLER

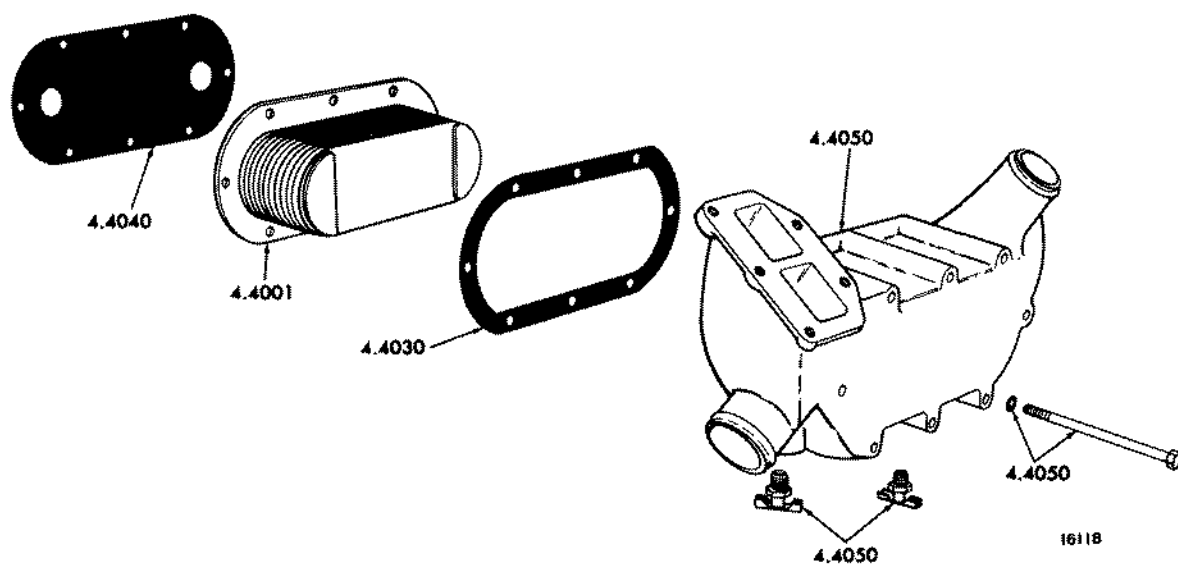


FIG. 4C OIL COOLER

Figs. 4B & 4C of 4.0000

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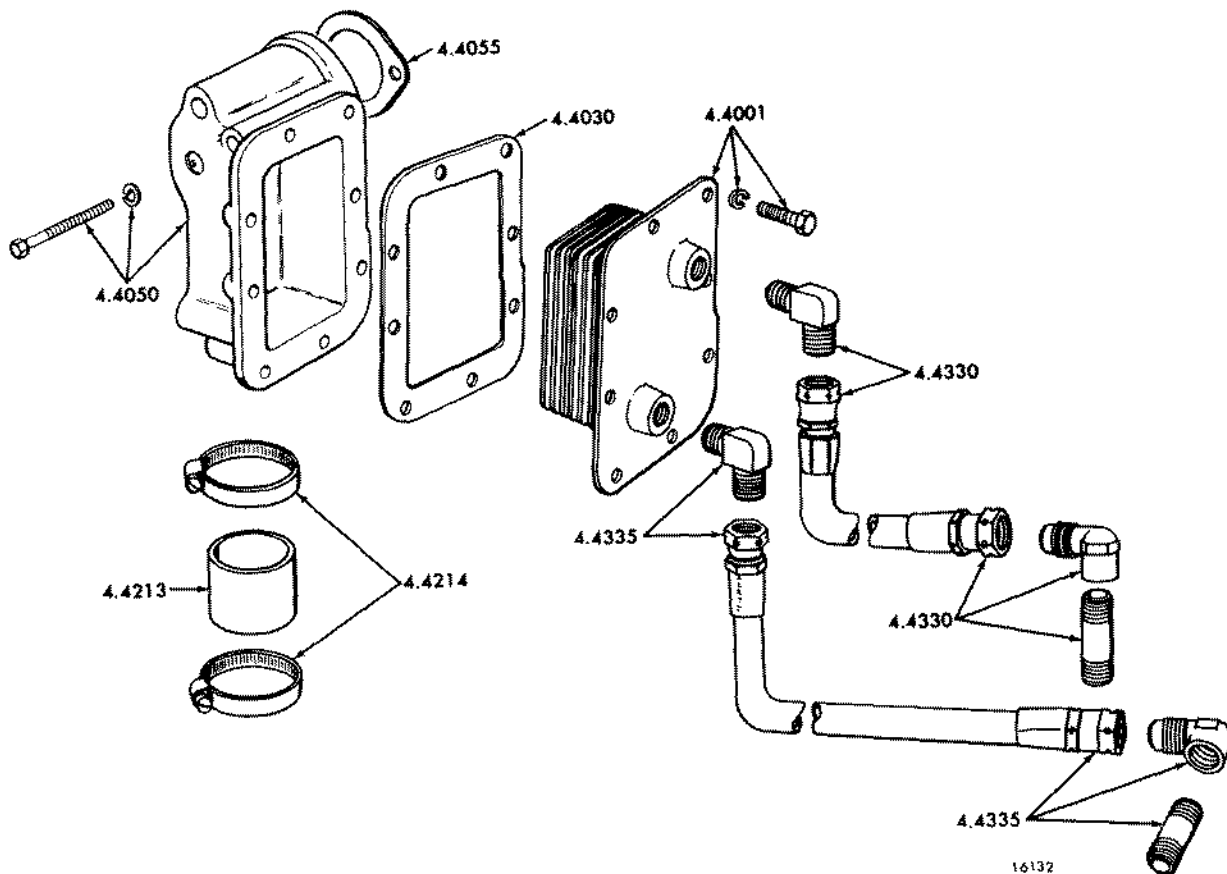
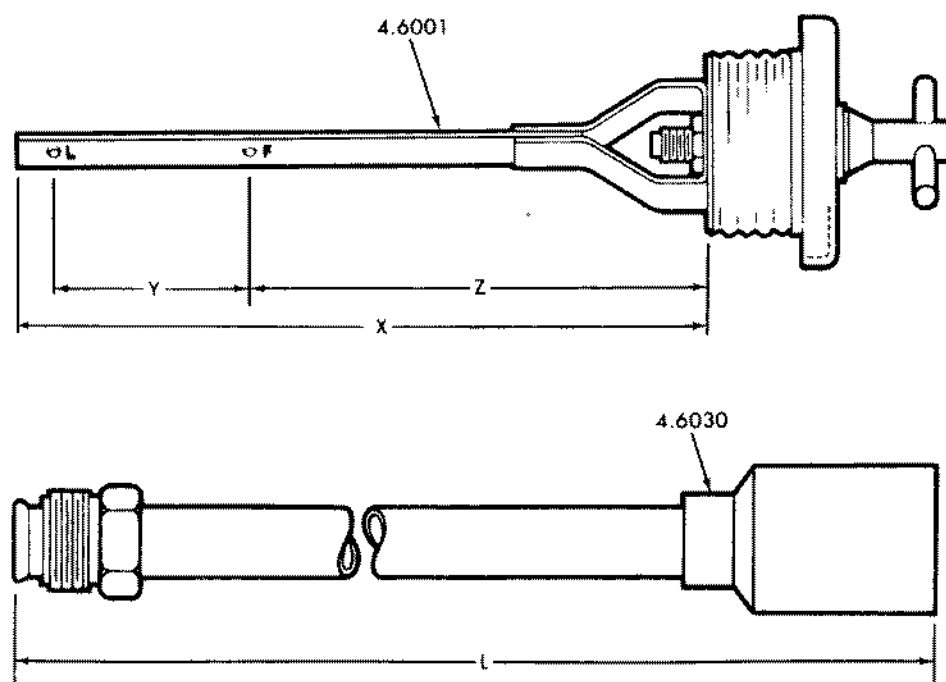
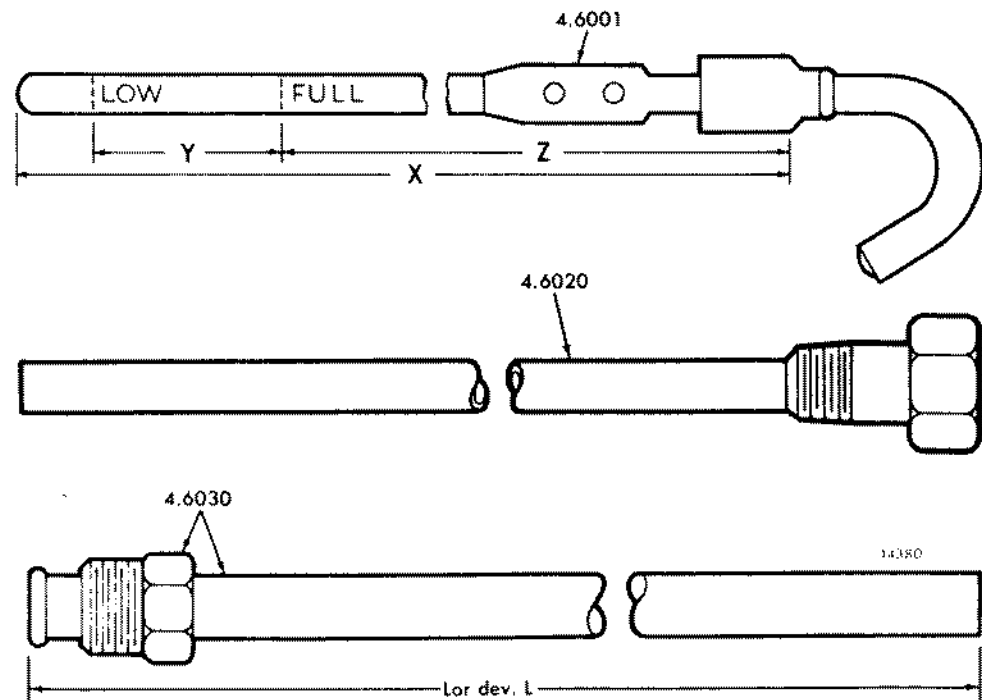


FIG. 4D MARINE GEAR OIL COOLER



Figs. 6A & 6B of 4.0000

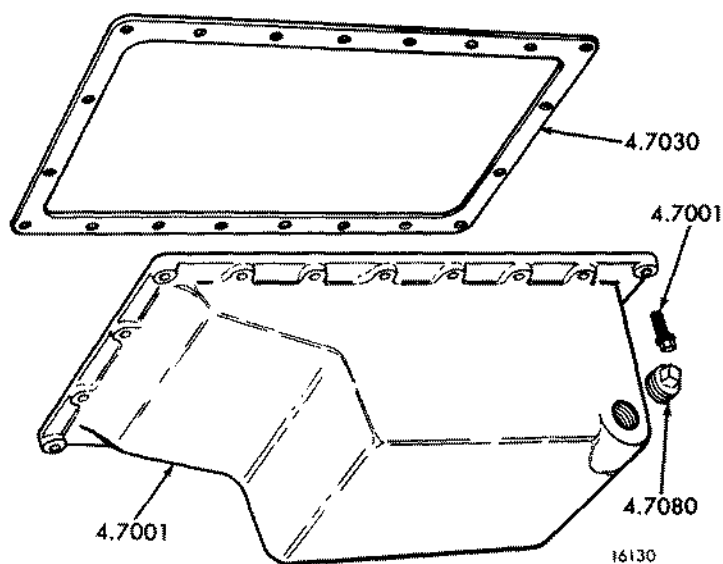


FIG. 7A OIL PAN (CAST)

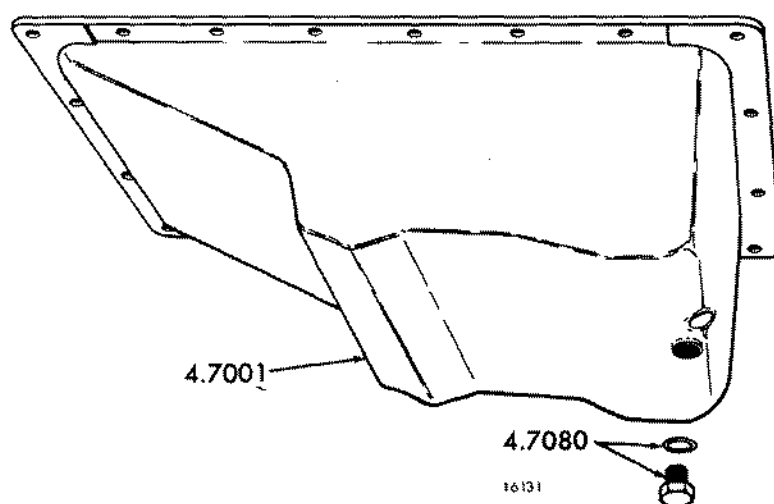


FIG. 7B OIL PAN (STAMPED)

Figs. 7A & 7B of 4.0000

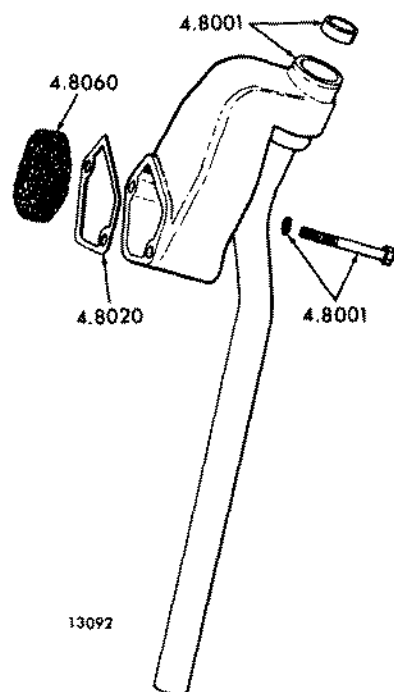


FIG. 8A BREATHING

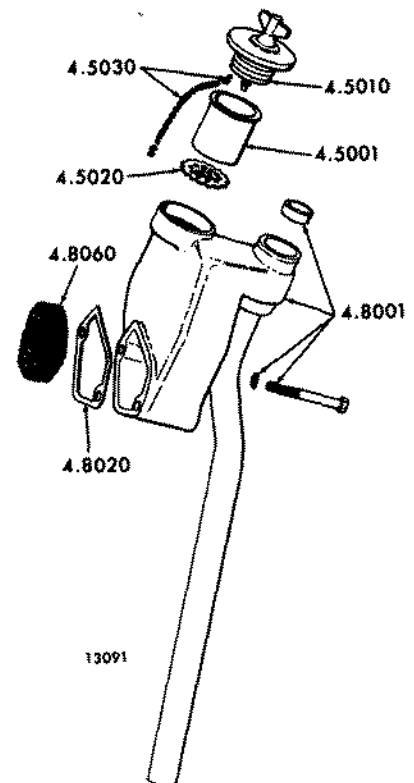


FIG. 8B BREATHING AND OIL FILLER

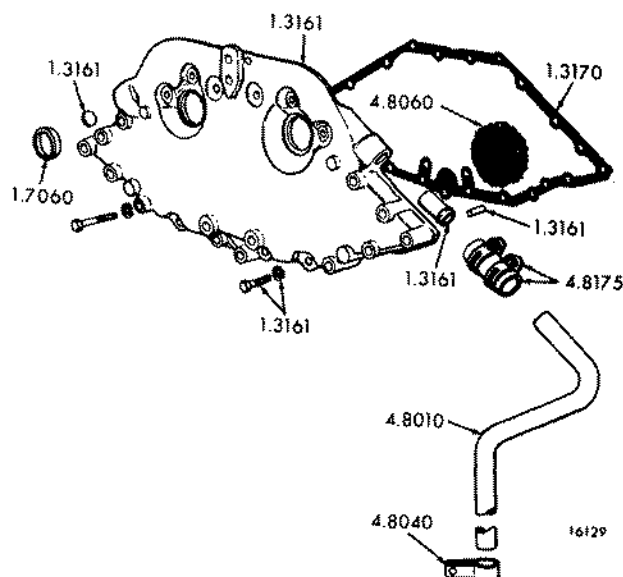


FIG. 8C BREATHING (6V)

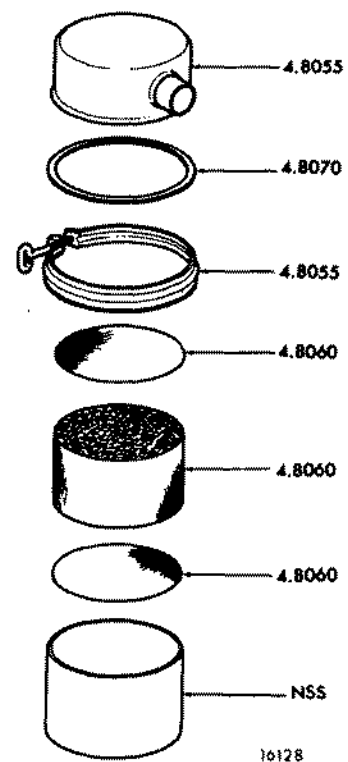


FIG. 8D BREATHER ASSEMBLY

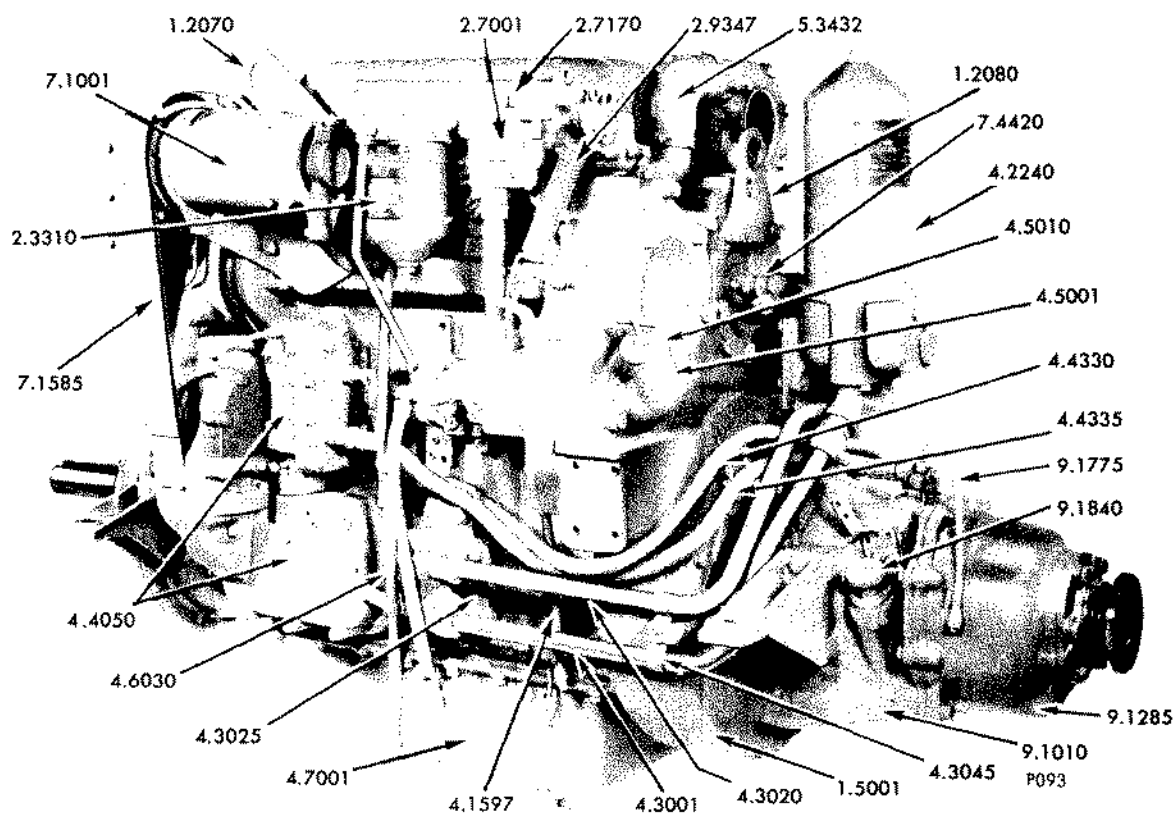


FIG. 10A OIL COOLER AND LINES (In-Line Engine)

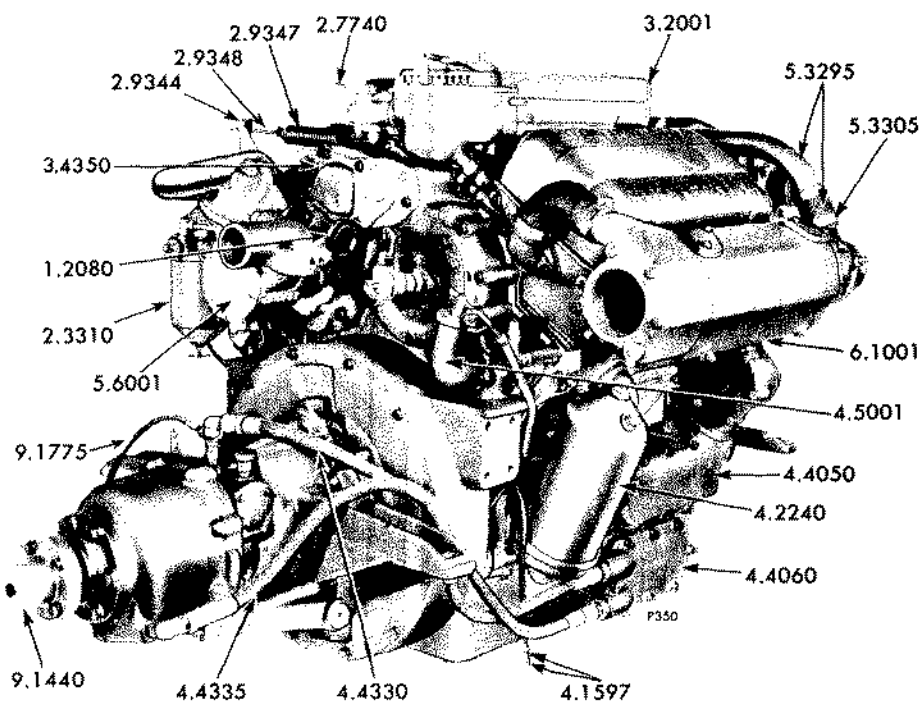


FIG. 10B OIL COOLER AND LINES (V-Engine)

Figs. 10A & 10B of 4.0000

4.1000A OIL PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	48	49	50	51	52	53	78	79	83	98	106	112
4.1001 - PUMP ASSY., OIL														
INCLUDES ITEMS IN 4.1085 THRU 4.1220 AND 4.1310.														
	5135032	PUMP ASSY., 2-53	1					1						
	5116110	PUMP ASSY., 3-53		1										
	5121042	PUMP ASSY., 4-53			1		1							
	5116070	PUMP ASSY., 6V-53				1								
	5132793	& PUMP ASSY., 8V-53							1					
	5134325	& PUMP ASSY., 8V-53								1				
	5135769	& PUMP ASSY., 8V-53									1			
	5135295	PUMP ASSY., 8V-53 (SCAVENGING)										1		
	5142731	PUMP ASSY., 3-53											1	
	5142015	PUMP ASSY., 8V-53												1
1A	179822	BOLT, 5/16"-18X1 1/2" (12.9001)	6		6									
1A	193942	BOLT, 5/16"-18X1 5/8" (AA LOCK) (12.9001)			6		6	6						
1A	179826	BOLT, 5/16"-18X2" (12.9001)				6								
	179839	BOLT, 3/8"-16X1" (12.9001)									4	4		4
1B	186619	BOLT, 3/8"-16X1 1/8" (12.9001)							4	4				
1A	272473	BOLT, 3/8"-16X3 7/8" (12.9001)											11	
	103341	WASHER, 3/8" (12.9190)											11	
1A	103320	LOCKWASHER, 5/16" (12.9200)	6		6	6			4	4	4	4	11	4
1B	103321	LOCKWASHER, 3/8" (12.9200)												
& NOT SERVICED; USE COMPONENTS. FOR COMPLETE REPLACEMENT USE HIGH CAPACITY PUMP 5141393 AND CHANGE OUT MAIN BEARINGS WITH 5198410.														
4.1003 - OVERHAUL KIT, OIL PUMP														
	5198320	OVERHAUL KIT, 8V-53							AR	AR				
4.1007 - GASKET, OIL PUMP TO CYLINDER BLOCK														
	5116386	GASKET												1
	5115454	SEAL (OIL) (1.3040)												1
4.1030 - SHIM, OIL PUMP														
	5132921	SHIM (.005")							AR	AR	AR	AR		AR
4.1040 - BODY, OIL PUMP														
INCLUDES ITEMS IN 4.1050 AND 4.1080.														
1B	5132787	% BODY ASSY.							1	1				
1B	5135767	# BODY ASSY. (5141391)									1			
1B	5135296	BODY ASSY. (SCAVENGING)										1		
	5153122	* BODY ASSY. (SCAVENGING)										1		1
1B	5141537	BODY ASSY.											1	1
	179830	BOLT, 5/16"-18X3" (12.9001)										4		4
	103320	LOCKWASHER, 5/16" (12.9200)										4		4
% OBSOLETE.														
# NOT SERVICED; USE BODY ASSY. SHOWN IN PARENTHESES AND INCLUDE (1) 5153260 AND (1) 5153617 DRIVEN GEARS.														
* INCLUDES (1) 5153154 BUSHING.														

4.1000A OIL PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 8	4 9	5 0	5 1	5 2	5 3	7 8	7 9	8 3	9 8	1 0 6	1 1 2
4.1050 - BUSHING, OIL PUMP BODY														
1B	5153147	BUSHING							2	2	2	2		2
4.1060 - SPACER, OIL PUMP BODY														
	5153257	SPACER										1		1
4.1070 - SHAFT, OIL PUMP DRIVE														
1B	5132730	SHAFT, 8V-53							1	1				
1B	5153309	SHAFT, 8V-53									1			
1B	5153258	SHAFT, 8V-53										1		1
4.1080 - SHAFT, OIL PUMP DRIVEN GEAR														
1B	5153310	SHAFT, 8V-53							1	1				
1B	5153146	SHAFT, 8V-53										1		1
1B	5134870	SHAFT, 8V-53									1			
4.1085 - ROTOR ASSY., OIL PUMP														
A ROTOR SET INCLUDES INNER AND OUTER ROTORS WHICH ARE NOT SOLD SEPARATELY.														
1A	5134968	ROTOR SET, 2-53	1					1						
1A	5195714	ROTOR SET, 3-53		1										
1A	5195957	ROTOR SET, 4-53			1		1							
1A	5195687	ROTOR SET, 6V-53				1								
4.1090 - GEAR, OIL PUMP DRIVE														
	5142917	GEAR											2	
1B	5132729	GEAR							1	1				
1B	5135929	GEAR									1	1		
	5153260	GEAR										1		2
1B	103905	KEY, 1/8"X5/8" WOODRUFF (12.9350)							1	1	1	3		3
4.1200 - GEAR, OIL PUMP DRIVEN														
GEAR ASSY. INCLUDES ITEM IN 4.1210.														
	5142919	GEAR											2	
1B	5132770	GEAR ASSY.							1	1	1	1		
	5153617	GEAR ASSY. (SCAVENGING)										1		2
4.1210 - BUSHING, OIL PUMP DRIVEN GEAR														
1B	5166840	BUSHING							2	2	2	2		
	5153154	BUSHING (SCAVENGING)										2		4
4.1220 - COVER, OIL PUMP														
	5142609	COVER											1	
	5142730	COVER											1	
1A	5195685	COVER	1	1	1	1	1	1						
1B	5132769	COVER							1					

4.1000A OIL PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 8	4 9	5 0	5 1	5 2	5 3	7 8	7 9	8 3	9 8	1 0 6	1 1 2
4.1220 - COVER, OIL PUMP (CONT'D)														
1B	5134324	COVER								1				
1A	5153299	COVER ASSY. (INCLUDES BUSHING IN 4.1240)									1			
1A	145067	SCREW, #6X3/8" DRIVE (12.9067)	2	2	2	2	2	2						
1B	186625	BOLT, 5/16"-18X7/8" (12.9001)							4	4				
1B	186624	BOLT, 5/16"-18X1 1/4" (12.9001)									4			
1A	179824	BOLT, 5/16"-18X1 3/4" (12.9001)											1	
1B	179844	BOLT, 3/8"-16X1 5/8" (12.9001)											3	
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)											6	
	120393	WASHER, 5/16" (12.9190)											1	
	103341	WASHER, 3/8" (12.9190)											1	
1B	103320	LOCKWASHER, 5/16" (12.9200)							4	4	4			
1B	103321	LOCKWASHER, 3/8" (12.9200)											3	
4.1227 - PLATE, ENGINE FRONT COVER														
	5142711	PLATE											1	
	179839	BOLT, 3/8"-16X1" (12.9001)											1	
	5131740	BOLT, 3/8"-16X1 1/2" (2.2001)											1	
	103341	WASHER, 3/8" (12.9190)											1	
4.1230 - GASKET, OIL PUMP COVER														
	5138991	SEAL (LOWER COVER)											1	
	5142712	GASKET (COVER PLATE)											1	
4.1240 - BUSHING, OIL PUMP COVER														
	5153154	BUSHING (4.1210)									1			
4.1250 - VALVE, OIL PUMP RELIEF														
	5177777	VALVE (4.4140)											2	
4.1260 - SPRING, OIL PUMP RELIEF VALVE														
	5126436	SPRING (4.1690)											2	
4.1270 - PLUG, OIL PUMP RELIEF VALVE														
	5113657	PLUG (4.1710)											2	
4.1280 - GASKET, OIL PUMP RELIEF VALVE														
	5177773	GASKET (4.4170)											2	
4.1310 - GEAR, OIL PUMP DRIVE-ON CRANKSHAFT														
1A	8921172	GEAR	1	1	1	1	1	1						
1A	5142713	GEAR											1	

DETROIT DIESEL

53 MPC ENGINES

4.1000A OIL PUMP

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	48	49	50	51	52	53	78	79	83	98	106	112
4.1380 - GEAR, OIL PUMP DRIVE-ON PUMP														
1B	5132637	GEAR							1	1	1	1		1
1B	103905	KEY, 1/8"X5/8" WOODRUFF (12.9350)							1	1	1	1		1

4.1000A OIL PUMP

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	1 3 0	1 4 3	1 4 5	1 5 8	1 6 2	1 6 3	1 6 4	1 6 5	1 6 6	1 6 7	1 6 8	1 6 9	1 7 0
	4.1001 - PUMP ASSY., OIL														
	A PUMP ASSY. INCLUDES ITEMS IN 4.1040 THRU 4.1220 AND 4.1380.														
	5104714	PUMP ASSY., 6V53			1	1									
	5141393	PUMP ASSY., 8V53	1												
	5103847	PUMP ASSY., 4-53		1			1								
	5116070	PUMP ASSY., 6V53						1	1	1					
	5116110	PUMP ASSY., 3-53									1	1	1	1	
	5121042	PUMP ASSY., 3 & 4-53													
	193942	BOLT, 5/16" LOCK (12.9001)		6			6				6	6	6	6	6
	193268	BOLT, 5/16"-18X2" (12.9001)			6	6									
	179826	BOLT, 5/16"-18X2" (12.9001)						6	6	6					
	179839	BOLT, 3/8"-16X1" (12.9001)	4												
	103320	LOCKWASHER, 5/16" (12.9200)						6	6	6					
1B	103321	LOCKWASHER, 3/8" (12.9200)	4												
	4.1030 - SHIM, OIL PUMP														
	5132921	SHIM (.005")	AR												
	4.1040 - BODY, OIL PUMP														
1B	5141391	BODY ASSY.	1												
	5104550	BODY ASSY., 6V53			1	1									
	5103962	BODY, 6V53		1			1								
	4.1050 - BUSHING, OIL PUMP BODY														
1B	5153147	BUSHING	2												
	4.1070 - SHAFT, OIL PUMP DRIVE														
1B	5153309	SHAFT	1												
	4.1080 - SHAFT, OIL PUMP DRIVEN GEAR														
1B	5134870	SHAFT	1												
	4.1085 - ROTOR ASSY., OIL PUMP														
	5106428	ROTOR ASSY., 6V53			1	1									
	5103900	ROTOR ASSY., 4-53		1			1								
1A	5195687	ROTOR ASSY., 6V53						1	1	1					
	5195714	ROTOR ASSY., 3-53									1	1	1	1	
	5195957	ROTOR ASSY., 3 & 4-53													1
	4.1090 - GEAR, OIL PUMP DRIVE														
	5153260	GEAR (SCAVENGING)	1												
1B	103905	KEY, 1/8"X5/8" WOODRUFF (12.9350)	1												

4.1000A OIL PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION												
		1 3 0	1 4 3	1 4 5	1 5 8	1 6 2	1 6 3	1 6 4	1 6 5	1 6 6	1 6 7	1 6 8	1 6 9	1 7 0
	4.1200 - GEAR, OIL PUMP DRIVEN													
	GEAR ASSY. INCLUDES ITEM IN 4.1210.													
5153617	GEAR ASSY. (SCAVENGING)	1												
	4.1210 - BUSHING, OIL PUMP DRIVEN GEAR													
5153154	BUSHING (SCAVENGING)	2												
	4.1218 - COVER, ENGINE FRONT - LOWER													
	A LOWER COVER ASSY. INCLUDES ITEMS IN 4.1690 THRU 4.1720.													
5136274	COVER ASSY. (1.3162)				1		1							
5103834	COVER ASSY. (1.3162)					1								
5138830	COVER ASSY. (1.3162)							1						
5109946	COVER ASSY. (1.3162)								1					
5197415	COVER ASSY. (1.3162)									1	1	1	1	1
5119426	FLANGE (5.2120)							1	1					
5126473	GASKET (4.1520)							1	1					
8924380	PLUG, 1/8" PIPE (12.9550)					1		1						
5145014	PLUG, 3/8" PIPE (12.9550)				1		1	1		1	1	1	1	1
8923916	PLUG, 1/2" PIPE (12.9550)					7				7	7	7	7	7
5146648	PLUG, 1/2" PIPE (1.3162)				4		4	4						
5173334	PLUG, 1/2" PIPE (12.9550)								2					
5139988	PLUG, 1" CUP (1.1001)							1						
138222	SCREW, 5/16"-18X1" (12.9027)							2	2					
427588	BOLT, 3/8"-16X2 1/2" (12.9001)				4		4	4	4					
186282	BOLT, 3/8"-16X3 1/4" (12.9001)					11				11	11	11	11	11
186283	BOLT, 3/8"-16X3 1/2" (12.9001)				4		4	4	4					
272428	BOLT, 3/8"-16X4 1/8" (12.9001)				4		4	4	4					
103341	WASHER, 3/8" (12.9190)							12	12					
103320	LOCKWASHER, 5/16" (12.9200)							2	2					
103321	LOCKWASHER, 3/8" (12.9200)				12	11	12	12	12	11	11	11	11	11
	4.1219 - BEARING, CRANKSHAFT FRONT SUPPORT													
5136097	BEARING (1.3165)							1						
	4.1220 - COVER, OIL PUMP													
1A 5153299	COVER ASSY. (INCLUDES BUSHING IN 4.1240)	1												
1A 5195685	COVER, 6V53		1	1	1	1	1	1	1	1	1	1	1	1
1A 145067	SCREW, #6X3/8" DRIVE (12.9067)		2	2	2	2	2	2	2	2	2	2	2	2
1B 186624	BOLT, 5/16"-18X1 1/4" (12.9001)	4												
1B 103320	LOCKWASHER, 5/16" (12.9200)	4												
	4.1229 - GASKET, CRANKSHAFT FRONT COVER													
5116386	GASKET (1.3170)					1				1	1	1	1	1
5119368	GASKET (1.3170)				1		1	1	1					
	4.1240 - BUSHING, OIL PUMP COVER													
5153154	BUSHING (4.1210)	1												

4.1000A OIL PUMP

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 3 0	1 4 3	1 4 5	1 5 8	1 6 2	1 6 3	1 6 4	1 6 5	1 6 6	1 6 7	1 6 8	1 6 9	1 7 0
4.1310 - GEAR, OIL PUMP DRIVE-ON CRANKSHAFT															
8921172	GEAR, 4-53			1			1	1	1	1	1	1	1	1	1
8924606	GEAR, 6V53				1	1									
4.1380 - GEAR, OIL PUMP DRIVE-ON PUMP															
1B 5132637	GEAR		1												
1B 103905	KEY, 1/8"X5/8" WOODRUFF (12.9350)		1												

53 M P C E N G I N E S

. TYPES

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4.1000A OIL PUMP

PART		TYPES									
..FIG ..	NUMBER	NAME AND DESCRIPTION									
		1 7 1	1 7 2	1 7 3	1 7 4	1 8 1	1 8 2				
4.1218 - COVER, ENGINE FRONT-LOWER (CONT'D)											
8925142	COVER					1					
5119426	FLANGE (5.2120)						1				
5126473	GASKET (4.1520)						1				
5145014	PLUG, 3/8" PIPE (12.9550)	1	1	1	1						
8924517	PLUG, 3/8" PIPE (12.9550)						1				
8923916	PLUG, 1/2" PIPE (12.9550)	7	7	7							
5146648	PLUG, 1/2" PIPE (1.3162)				4		4				
5139988	PLUG, 1" CUP (1.1001)						1				
138222	SCREW, 5/16"-18X1" (12.9027)						2				
108608	BOLT, 3/8"-16X2 1/8" (12.9001)					4					
427588	BOLT, 3/8"-16X2 1/2" (12.9001)				4		4				
186282	BOLT, 3/8"-16X3 1/4" (12.9001)	11	11	11							
186283	BOLT, 3/8"-16X3 1/2" (12.9001)				4		4				
272429	BOLT, 3/8"-16X4 1/8" (12.9001)				4		4				
103341	WASHER, 3/8" (12.9190)					4	12				
5150568	WASHER, 7/16"X3/4" COPPER (2.4050)					4					
103320	LOCKWASHER, 5/16" (12.9200)						2				
103321	LOCKWASHER, 3/8" (12.9200)	11	11	11	12		12				
4.1220 - COVER, OIL PUMP											
5195685	COVER, 4, 6V53	1	1	1	1						
8925146	COVER ASSY., 6V53					1					
145067	SCREW, #6X3/8" DRIVE (12.9067)	2	2	2	2		2				
141212	PIN, 5/16"X5/16" DOWEL (12.9290)					1					
141247	PIN, 3/8"X1 3/8" DOWEL (12.9290)					2					
4.1229 - GASKET, CRANKSHAFT FRONT COVER											
5116386	GASKET (1.3170)	1	1	1							
5119368	GASKET (1.3170)				1		1				
4.1230 - GASKET, OIL PUMP COVER											
5138991	SEAL (LOWER COVER)					2					
4.1310 - GEAR, OIL PUMP DRIVE-ON CRANKSHAFT											
8921172	GEAR, 4, 6V53	1	1	1	1		1				
5136796	GEAR, 6V53					1					
4.1240 - BUSHING, OIL PUMP COVER											
5136097	BUSHING, CRANKSHAFT OUTBOARD						1				

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 6 6	1 6 9	1 7 0	1 7 3	1 7 4	1 8 5	1 8 6	1 8 7	1 8 8	1 9 2	1 9 4	1 9 5
4.1510 - PIPE, OIL PUMP INLET														
2A	5125949	PIPE, 4-53 (A-5.12",B-15.48")	1											
2A	5121423	PIPE, 3-53 (A-5.27", B-10.68")		1										
2A	5121422	+ PIPE 2-53 (A-5.27", B-5.28")			1									
2A	5121214	+ PIPE, 2-53 (A-3.25", B-7.80")				1								
2A	5121425	+ PIPE, 2-53 (A-7.77", B-5.28")					1							
2A	5123937	PIPE 3-53 (A-2.74", B-13.20")						1						
2A	5123367	+ PIPE, 3,4-53 (A-5.27", B-8.70")							1			1		
2A	5123368	+ PIPE 4-53 (A-5.27", B-19.50")								1				
2B	5123476	+ PIPE 3-53 (A-5.27", B-14.10")									1			
2B	5125203	+ PIPE, 4-53											1	
2A	5125948	+ PIPE 3-53 (A-5.12", B-11.16")												1
2A	5119425	FLANGE	1	1	1	1	1	1	1	1	1	1	1	1
2A	5127175	SEAL RING	1	1	1	1	1	1	1	1	1	1	1	1
2A	179816	BOLT, 5/16"-18X3/4" (12.9001)	4	4	4	4	4	2	4	4	4	4	4	4
2A	186625	BOLT, 5/16"-18X7/8" (12.9001)						2						
2A	120393	WASHER, 5/16" (12.9190)		2	2	2	2					2		2
2A	103320	LOCKWASHER, 5/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
		+ OBSOLETE.												
4.1512 - SUPPORT, OIL PUMP INLET TUBE														
2B	5125202	SUPPORT (4.1540)											1	
	179835	BOLT, 3/8"-16X5/8" (12.9001)											2	
	103321	LOCKWASHER, 3/8" (12.9200)											2	
4.1520 - GASKET, OIL PUMP INLET PIPE														
2A	5175568	GASKET (4.1672)	1				1	1	1	1	1	1		1
4.1530 - SCREEN, OIL PUMP INLET														
2A	5126456	SCREEN ASSY.	1	1	1	1	1	1	1	1	1	1	1	1
2A	274558	NUT, 5/16"-24 LOCK (12.7040)	2		2	2	2	2	2	2	2	2	2	2
2A	214279	NUT, 5/16"-24 LOCK (12.9120)		2										
4.1597 - TUBE, OIL PRESSURE GAGE-MARINE														
10A,B	5118781	HOSE, 3/16" I.D.X11 3/16" L. (5.1003)						1	1	1	1	1		
	1508350	CONNECTOR, 1/8" RESTRICTED												
		(7.4074)						1	1	1	1	1		
	443762	EXTENSION (1/8" PT. INT. AND EXT.)												
		(12.9540)										1		
4.1660 - PIPE, BLOWER DRIVE BEARING OIL														
2C	5119476	TUBE ASSY., 4-53 (DEV. L. 7 1/8")	1							1		1	1	
2C	8924170	CONNECTOR, 1/4" INV. FL. TUBE	1							1		1	1	
		(12.9460)												

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 6 6	1 6 9	1 7 0	1 7 3	1 7 4	1 8 5	1 8 6	1 8 7	1 8 8	1 9 2	1 9 4	1 9 5
4.1660 - PIPE, BLOWER DRIVE BEARING OIL (CONT'D)														
2C	8925032	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)	1							1		1	1	

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	1 9 6	1 9 9	2 0 0	2 0 7	2 0 8	2 0 9	2 1 0	2 1 1	2 1 2	2 1 3	2 1 6
4.1510 - PIPE, OIL PUMP INLET													
2A	5125949	PIPE, 4-53 (A-5.12", B-15.48")	1						1				
2B	5128058	PIPE, 6V53		1							1		
2A	5126941	PIPE, 3-53 (A-4.20", B-7.34")			1								
2A	5126942	+ PIPE, 3-53 (A-4.20", B-11.34")				1							
2A	5126211	PIPE, 3-53 (A-5.12", B-14.00")					1						
2A	5126212	PIPE, 3-53 (A-5.12", B-7.52")						1					
2A	5126213	PIPE, 4-53 (A-5.12", B-10.08")								1			
2A	5126659	PIPE, 3, 4-53 (A-6.24", B-12.74")										1	
2A	5127982	PIPE, 2-53 (A-5.28", B-10.35")											1
2A	5119425	FLANGE	1		1	1	1	1	1	1		1	1
2B	5126454	FLANGE		1							1		
2B	5126453	* ELBOW		1							1		
2A	5127175	SEAL RING	1		1	1	1	1	1	1		1	1
2B	5126492	SEAL RING		1							1		
2A	179816	BOLT, 5/16"-18X3/4" (12.9001)	4	3	4	4	4	4	4	4	5	4	4
2A	186625	BOLT, 5/16"-18X7/8" (12.9001)		2									
2B	179826	BOLT, 5/16"-18X2" (12.9001)		2							2		
2A	120393	WASHER, 5/16" (12.9190)	2	1			2	2	2		1	4	
2A	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		+ OBSOLETE.											
		* NOT SERVICED, USE 5138417 AND SD-161.											
4.1512 - SUPPORT, OIL PUMP INLET TUBE													
2B	5128060	SUPPORT		1							1		
4.1520 - GASKET, OIL PUMP INLET PIPE													
2A	5175568	GASKET (4.1672)			1	1			1	1			
2B	5126473	GASKET (ELBOW TO PUMP)		1							1		
4.1530 - SCREEN, OIL PUMP INLET													
2A	5126456	SCREEN ASSY.	1		1	1	1	1	1	1		1	1
2B	5155830	SCREEN		1							1		
2B	179789	BOLT, 1/4"-20X3/8" (12.9001)		2							2		
2B	120380	LOCKWASHER, 1/4" (12.9200)		2							2		
2A	274558	NUT, 5/16"-24 LOCK (12.7040)			2	2		2	2	2			2
2A	214279	NUT, 5/16"-24 LOCK (12.9120)	2				2					2	
4.1597 - TUBE, OIL PRESSURE GAGE-MARINE													
10A,B	5118781	HOSE, 3/16" I.D. X 11 3/16" L. (5.1003)					1	1	1	1	1		
	1508350	CONNECTOR, 1/8" RESTRICTED (7.4074)						1	1	1	1		
	443762	EXTENSION, 1/8 PT. INT. AND EXT. (12.9540)								1			
4.1660 - PIPE, BLOWER DRIVE BEARING OIL													
2C	5119476	TUBE ASSY., 4-53 (DEV. L. 7 1/8")	1						1	1		1	
2C	8924170	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)	1						1	1		1	

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	1 9 6	1 9 9	2 0 0	2 0 7	2 0 8	2 0 9	2 1 0	2 1 1	2 1 2	2 1 3	2 1 6
	4.1660	PIPE, BLOWER DRIVE BEARING OIL (CONT'D)											
2C	8925032	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)	1						1	1		1	

4.1000B OIL DISTRIBUTION SYSTEM

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			TYPES											
			2 2 0	2 2 1	2 2 5	2 2 7	2 2 9	2 3 0	2 3 2	2 3 4	2 3 5	2 3 6	2 3 7	2 3 8
4.1510 - PIPE, OIL PUMP INLET														
2D	5108387	+ PIPE (CAST IRON) (FIGURE 2)	1											
	5126494	+ PIPE (CAST IRON)		1										
2B	5129885	PIPE,6V53				1								
2B	5109479	PIPE,4-53						1						
2B	5108378	PIPE,6V53							1					
2B	5109221	PIPE,6V53								1				
2B	5109169	PIPE,6V53											1	
2B	5162834	PIPE,6V53												1
2A	5100227	+ PIPE, 4-53 (A-7.32",B-20.06")			1									
2A	5126213	PIPE, 4-53 (A-5.12",B-10.08")					1							
2A	5126211	* PIPE, 3-53 (A-5.12",B-14")									1			
2A	5109978	PIPE, 4-53 (A-9.42",B-13.96")										1		
2A	5119425	FLANGE			1		1	1			1	1		
2B	5126454	FLANGE				1			1	1			1	1
	5139475	+ = INLET	1	1					1	1			1	1
2B	5126453	@ ELBOW				1			1	1			1	1
2A	5127175	SEAL RING			1		1	1		1			1	1
2B	5126492	SEAL RING				1		1		1		1	1	1
2B	186618	BOLT, 5/16"-18X5/8" (12.9001)						1	3				1	1
2A	179816	BOLT, 5/16"-18X3/4" (12.9001)	2	2	4	3	4	4		5	4	4		3
2B	186625	BOLT, 5/16"-18X7/8" (12.9001)				2			2				5	2
2B	179823	BOLT, 5/16"-18X1 5/8" (12.9001)	2	2										
2B	179826	BOLT, 5/16"-18X2" (12.9001)				2			2	2			2	2
	120393	WASHER, 5/16" (12.9190)							AR	AR		4	AR	AR
2A	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	4	AR	4	AR					2	
	120376	NUT, 5/16"-18 (12.9140)												
		@ NOT SERVICED, USE 5138417 AND SD161.												
		+ OBSOLETE.												
		* INCLUDES SUPPORT 5125947 NOT SERVICED SEPARATELY.												
		= EFFECTIVE WITH 4D-27899 AND 3D-26968.												
4.1512 - SUPPORT, OIL PUMP INLET TUBE														
	5126511	* SUPPORT, 6V53 (1.26" OFFSET)	1											
	5108223	@ SUPPORT, 3,4-53 (2.64" OFFSET)	1											
2B	5126504	SUPPORT,3,4-53		1										
2B	5162916	SUPPORT,6V53				1								
2B	5109469	SUPPORT,4-53						1						
2B	5108356	SUPPORT, 6V53 (4.1540)							1					
2B	5109220	SUPPORT, 6V53 (4.1540)								1				
2B	5109171	SUPPORT,6V53											1	
2B	5162804	SUPPORT,6V53												1
		* THRU 4D-3828.												
		@ EFFECTIVE WITH 4D-3829 AND USE WHENEVER REPLACING INLET PIPE.												

4.1000B OIL DISTRIBUTION SYSTEM

			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 2 0	2 2 1	2 2 5	2 2 7	2 2 9	2 3 0	2 3 2	2 3 4	2 3 5	2 3 6	2 3 7	2 3 8
4.1520 - GASKET, OIL PUMP INLET PIPE														
	5180273	GASKET,2,3,4-53	1	1										
2A	5175568	GASKET,2,3,4-53 (4.1672)			1		1	1				1		
2B	5126473	GASKET,6V53				1			1	1			1	1
4.1530 - SCREEN, OIL PUMP INLET														
	5154457	# SCREEN	1	1										
2A	5126456	SCREEN ASSY.			1		1				1	1		
	5155830	& SCREEN	1	1		1		1	1	1			1	1
	5152385	SCREEN									1			
2B	179789	& BOLT, 1/4"-20X3/8" (12.9001)	2	2		2			2	2			2	2
2B	180016	BOLT, 1/4"-20X1/2" (12.9001)						2						
2B	120392	WASHER, 1/4" (12.9190)						2						
2B	120380	& LOCKWASHER, 1/4" (12.9200)	2	2		2		2	2	2			2	2
2A	274558	NUT, 5/16"-24 LOCK (12.7040)			2									
2A	214279	NUT, 5/16"-24 LOCK (12.9120)					2				2	2		
		# THRU 3D-26968, 4D-27898 NOT SERVICED. & EFFECTIVE WITH 4D-27899.												
4.1540 - BRACKET, OIL PUMP SCREEN SUPPORT														
	5108978	BRACKET							1					
	179816	BOLT, 5/16"-18X3/4" (12.9001)							2					
	120393	WASHER, 5/16" (12.9190)							2					
	103320	LOCKWASHER, 5/16" (12.9200)							2					
4.1597 - TUBE, OIL PRESSURE GAGE-MARINE														
	5118781	HOSE, 3/16" I.D. X 11 3/16" L. (5.1003)	1	1						1				
	1508350	CONNECTOR, 1/8" RESTRICTED (7.4074)		1						1				
	443762	EXTENSION, 1/8 PT. INT. AND EXT. (12.9540)		1										
4.1660 - PIPE, BLOWER DRIVE BEARING OIL														
2C	5119476	TUBE ASSY.,3,4-53 (DEV. L. 7 1/8")	1	1	1		1	1				1		
2C	8924170	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)	1	1	1		1	1				1		
2C	8925032	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)	2	2	2		2	1						

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 3 9	2 4 2	2 4 6	2 4 9	2 5 0	2 5 2	2 5 4	2 5 7	2 5 8	2 6 1	2 6 3	2 7 5
4.1510 - PIPE, OIL PUMP INLET														
2B	5162917	PIPE,6V53	1										1	
2B	5131572	PIPE,3-53										1		
2D	5132725	PIPE,6V53 (FIGURE 4)												1
2A	5109241	PIPE,4-53 (A-7.32",B-3.86")		1										
2A	5162968	PIPE,4-53 (A-4.48",B-19")			1									
2A	5109092	PIPE,4-53 (A-6.24",B-11.34")				1								
2A	5162967	PIPE,4-53 (A-3.66",B-19")					1							
2A	5125949	PIPE,4-53 (A-5.12",B-15.48")						1						
2A	5130935	PIPE,3-53 (A-7.52",B-5.76")							1					
2A	5131323	+ PIPE,2-53 (A-5.27",B-7.80")								1				
2A	5131622	PIPE,3-53 (A-6",B-5.76")									1			
2A	5119425	FLANGE		1	1	1	1	1	1	1	1	1		
2B	5126454	FLANGE	1										1	
2B	5126453	ELBOW (SD-161)	1										1	
2A	5127175	SEAL RING		1	1	1	1	1	1	1	1	1		
2B	5126492	SEAL RING	1										1	
2B	186618	BOLT, 5/16"-18X5/8" (12.9001)										3		
2A	179816	BOLT, 5/16"-18X3/4" (12.9001)	3	4	4	4	4	4	4	4	4	2	3	
2B	186625	BOLT, 5/16"-18X7/8" (12.9001)	2										2	
2B	138222	BOLT, 5/16"-18X1" (12.9027)												2
2B	179826	BOLT, 5/16"-18X2" (12.9001)	2										2	
	120393	WASHER, 5/16" (12.9190)	AR	4	4	4	4	4	4	4	4	AR	AR	AR
2A	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	4	AR	AR	AR	AR
		+ OBSOLETE.												
4.1512 - SUPPORT, OIL PUMP INLET TUBE														
2B	5162916	SUPPORT,6V53	1										1	
2B	5131574	SUPPORT,3-53										1		
	5132709	SUPPORT,6V53												2
	120228	BOLT, 5/16"-18X5/8" (12.9001)												1
	181595	BOLT, 5/16"-24X3/4" (12.9001)												1
	120393	WASHER, 5/16" (12.9190)												5
	103320	LOCKWASHER, 5/16" (12.9200)												3
	114493	LOCKNUT, 5/16"-24 (2.7170)												2
4.1520 - GASKET, OIL PUMP INLET PIPE														
2A	5175568	GASKET,2,3,4-53 (4.1672)			1	1	1	1	1	1	1			
2B	5126473	GASKET,6V53	1										1	1
4.1530 - SCREEN, OIL PUMP INLET														
2A	5126456	SCREEN ASSY.		1	1	1	1	1	1	1	1			
	5155830	* SCREEN	1									1	1	1
2B	179789	* BOLT, 1/4"-20X3/8" (12.9001)	2									2	2	2
2B	180016	BOLT, 1/4"-20X1/2" (12.9001)												

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES											
..FIG	NUMBER	NAME AND DESCRIPTION	2 3 9	2 4 2	2 4 6	2 4 9	2 5 0	2 5 2	2 5 4	2 5 7	2 5 8	2 6 1	2 6 3	2 7 5
		4.1530 - SCREEN, OIL PUMP INLET (CONT'D)												
2B	120392	WASHER, 1/4" (12.9190)										2		
2B	120380	* LOCKWASHER, 1/4" (12.9200)	2										2	2
2A	274558	NUT, 5/16"-24 HEX. LOCK (12.9140) * EFFECTIVE WITH 4D-27899.		2	2	2	2	2	2	2	2			
		4.1597 - TUBE, OIL PRESSURE GAGE-MARINE												
	5118781	HOSE, 3/16" I.D. X 11 3/16" L. (5.1003)				1		1						
	1508350	CONNECTOR, 1/8" RESTRICTED (7.4074)				1		1						
		4.1660 - PIPE, BLOWER DRIVE BEARING OIL												
2C	5119476	TUBE ASSY., 3, 4-53 (DEV. L. 7 1/8")		1	1	1	1							
2C	5130938	TUBE ASSY., 4-53 (DEV. L. 5.50")						1						
2C	8924170	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)		1	1	1	1	1						
2C	225810	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)		1	2	2	2	2						

4.1000B OIL DISTRIBUTION SYSTEM

PART
FIG. NUMBER NAME AND DESCRIPTION

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	2 8 0	2 8 2	2 8 3	2 8 5	2 8 6	2 8 9	2 9 0	2 9 2	2 9 5	2 9 6	2 9 7	2 9 8		
4.1510 - PIPE, OIL PUMP INLET																
2B	5132482	TUBE,8V53	1													
2B	5133917	TUBE,4-53		1												
2B	5134327	+ TUBE,8V53			1											
2B	5131078	+ TUBE,3-53				1										
2D	5134512	= TUBE,8V53					1									
2D	5135082	+ TUBE,6V53 (FIGURE 1)						1								
2B	5135192	+ TUBE,8V53							1							
2B	5136090	TUBE,6V53											1			
	5135570	TUBE,8V53												1		
2A	5126212	+ TUBE ASSY.3-53 (A-7.52",B-5.70")								1						
	NPN	ELBOW									1					
	5135577	ELBOW										1				
2B	5119425	FLANGE		1		1				1			1			
	5123660	GASKET (4.1300)					1				1					
2B	5127175	SEAL RING		1		1				1						
	9421628	SCREW, 5/16"-18X2" (12.9027)											2			
2B	186618	BOLT, 5/16"-18X5/8" (12.9001)		1		1										
	120228	BOLT, 5/16"-18X5/8" (12.9001)											1			
2B	179816	BOLT, 5/16"-18X3/4" (12.9001)		4		4		3		4						
	186625	BOLT, 5/16"-18X7/8" (12.9001)						2								
	186629	BOLT, 5/16"-18X1" (12.9001)											2			
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)	2		2		2		2		2	2		2		
	120393	WASHER, 5/16" (12.9190)		4				1		2	2		1			
	103320	LOCKWASHER, 5/16" (12.9200)	2	5	2	5	2	5	2	4	2	2	3	2		
		+ OBSOLETE.														
		= NOT SERVICED; USE 5135577 PLUS (1)														
		5126143.														
4.1512 - SUPPORT, OIL PUMP INLET TUBE																
2B	5133642	SUPPORT		1												
	5134329	* SUPPORT (4.1540)			1				1							
2B	5131079	SUPPORT				1										
	5135070	SUPPORT						1								
	5136225	SUPPORT											2			
	5135574	SUPPORT												1		
	181595	BOLT, 5/16"-24X3/4" (12.9001)											2			
	217910	BOLT, 3/8"-16X5/8" SKT. HD. (12.9027)			2				2					2		
	179837	BOLT, 3/8"-16X3/4" (12.9001)											2			
	103341	WASHER, 3/8" (12.9190)		4									2			
	103320	LOCKWASHER, 5/16" (12.9200)											2			
	103321	LOCKWASHER, 3/8" (12.9200)											2			
	114493	LOCKNUT, 5/16"-24 (2.7170)											2			
		* OBSOLETE.														
4.1520 - GASKET, OIL PUMP INLET PIPE																
2B	5132832	GASKET	1		1		1		1		1	1		1		
	5126473	GASKET						AR					AR			
	5135877	GASKET											1			

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	280	282	283	285	286	289	290	292	295	296	297	298
4.1530 - SCREEN, OIL PUMP INLET														
	5132829	# SCREEN	1		1		1		1		1			
2B	5155830	SCREEN		1		1		1						
2A	5126456	SCREEN ASSY.								1				
2A	5126143	SCREEN ASSY.										1	1	1
	5132830	FLANGE (4.1510)	1		1				1					
	5132831	SEAL RING (4.1510)	1		1				1					
	179789	BOLT, 1/4"-20X3/8" (12.9001)				2		2						
	180016	BOLT, 1/4"-20X1/2" (12.9001)		2										
	179812	BOLT, 5/16"-18X1/2" (12.9001)											2	
	186618	BOLT, 5/16"-18X5/8" (12.9001)					2				2			
	9409010	BOLT, 5/16"-18X5/8" LOCK (12.9001)										2		2
	179816	BOLT, 5/16"-18X3/4" (12.9001)	2											2
	186625	BOLT, 5/16"-18X7/8" (12.9001)			2				2					
	120392	WASHER, 1/4" (12.9190)		2										
	120393	WASHER, 5/16" (12.9190)												
	120380	LOCKWASHER, 1/4" (12.9200)		2		2		2				2		2
	103320	LOCKWASHER, 5/16" (12.9200)	2		2		2		2		2		2	2
2A	214279	NUT, 5/16"-24 LOCK (12.9120)								2				
		# OBSOLETE.												
4.1540 - BRACKET, OIL PUMP SCREEN SUPPORT														
	5132792	BRACKET (4.1512)	1											
	5134329	* BRACKET			1									
	5135194	* BRACKET							1					
	5135575	BRACKET												1
	186618	BOLT, 5/16"-18X5/8" (12.9001)	2		2				2					2
	103320	LOCKWASHER, 5/16" (12.9200)	2		2				2					2
	120376	NUT, 5/16"-18 (12.9120)	2		2				2					2
		* OBSOLETE.												
4.1580 - PIPE, OIL PUMP OUTLET														
A TUBE AND HOUSING ASSY. INCLUDES ITEMS IN 4.1582 AND 4.1583.														
	5132899	TUBE AND HOUSING ASSY.	1		1		1		1			1		1
	5133183	+ TUBE AND HOUSING ASSY.									1			
	5135527	+ TUBE ASSY.											1	
	179824	BOLT, 5/16"-18X1 3/4" (12.9001)										2		2
	186648	BOLT, 5/16"-18X1 7/8" (12.9001)					2				2			
	179826	BOLT, 5/16"-18X2" (12.9001)											2	
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)	4		4		2		4		2	2		2
	103320	LOCKWASHER, 5/16" (12.9200)	4		4		4		4		4	4	4	4
		+ OBSOLETE.												

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		2 8 0	2 8 2	2 8 3	2 8 5	2 8 6	2 8 9	2 9 0	2 9 2	2 9 5	2 9 6	2 9 7	2 9 8
4.1582 - VALVE, OIL PRESSURE RELIEF													
5132898	VALVE (4.1630)	1		1		1		1		1	1		1
4.1583 - SPRING, OIL PRESSURE RELIEF VALVE													
5155765	SPRING (4.1260)	1		1		1		1		1	1		1
5132897	SEAT (4.1701)	1		1		1		1		1	1		1
455289	PIN, 1/8"X1 1/16" GROOVE (12.9270)	1		1		1		1		1	1		1
4.1590 - GASKET, OIL PUMP OUTLET PIPE													
5132832	GASKET (AT PUMP) (4.1520)	1		1		1		1		1	1		1
5132471	GASKET (AT BLOCK) (1.1066)	1		1		1		1		1	1		1
4.1597 - TUBE, OIL PRESSURE GAGE													
5118781	HOSE, 3/16" I.D.X11 3/16"L. (5.1003)					1				1	1		
1508350	CONNECTOR, 1/8" RESTRICTED (7.4074)					1				1	1		

4.1000B OIL DISTRIBUTION SYSTEM

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 0 0	3 0 1	3 0 2	3 0 3	3 0 8	3 1 4	3 1 9	3 2 2	3 2 3	3 2 4	3 2 5	3 2 8
4.1510 - PIPE, OIL PUMP INLET														
2B	5132626	TUBE,6V53	1											
2D	5135339	+ TUBE,8V53		1										
2D	5138246	TUBE,6V53 (FIGURE 7)			1	1					1			
2B	5136382	TUBE,3-53					1							
	5138060	TUBE,8V53						1						
2B	5138504	+ TUBE,6V53								1				
2D	5138245	TUBE,6V53 (FIGURE 7)										1		
2D	5139272	TUBE,6V53 (FIGURE 7)											1	
2D	5138241	TUBE,6V53												1
2A	5121425	+ TUBE ASSY.,2-53 (A-7.77",B-5.28")							1					
	5126453	ELBOW,6V53 (SD-161)	1							1				
2B	5119425	FLANGE					1		1					
	5126454	FLANGE,6V53	1							1				
	5156442	FLANGE,6V53			1	1								
2B	5127175	SEAL RING					1		1					
	5126492	SEAL RING,6V53	1							1				
	5137524	SEAL RING,6V53			1	1								
2B	179816	BOLT, 5/16"-18X3/4" (12.9001)					4		2					
	186625	BOLT, 5/16"-18X7/8" (12.9001)	2							2				
	186629	BOLT, 5/16"-18X1" (12.9001)			2	2								
	179826	BOLT, 5/16"-18X2" (12.9001)	2		2	2				2				
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)		2	2	2		2			2	2	2	2
	103320	LOCKWASHER, 5/16" (12.9200)	4	2	4	6	4	2	2	4	2	2	2	2
		+ OBSOLETE.												
4.1512 - SUPPORT, OIL PUMP INLET TUBE														
	5132623	SUPPORT,6V53	1											
	5137525	SUPPORT,6V53			1	1								
	5136380	SUPPORT,3-53					1							
	5136381	SUPPORT,3-53					1							
	5138684	* SUPPORT,6V53								1				
	5138420	SUPPORT,6V53									2	2	2	2
	5159347	SPACER, 3/4"X1/2" (7.1581)				2								
	5165211	SPACER, 1/2"X9/16" (4.8001)			2									
	186618	BOLT, 5/16"-18X5/8" (12.9001)			2		1							
	179816	BOLT, 5/16"-18X3 1/4" (12.9001)	2		2	2	2		4	2				
	181595	BOLT, 5/16"-24X3/4" (12.9001)					2							
	186612	BOLT, 3/8"-16X3/8" (12.9001)			2	2								
	179837	BOLT, 3/8"-16X3/4" (12.9001)	2								4	4	4	4
	186627	BOLT, 3/8"-24X1" (12.9001)									2	2		
	120393	WASHER, 5/16" (12.9190)	1				2		2	1				
	103341	WASHER, 3/8" (12.9190)	4		2	4					4	8		
	5138619	WASHER, 25/64"X3/4"X.83"									2	4	2	2
	103320	LOCKWASHER, 5/16" (12.9200)	2		4	2	2		4	2				
	103321	LOCKWASHER, 3/8" (12.9200)	2		2	2					4	4	4	4
	114493	LOCKNUT, 5/16"-24 (2.7170)					2							
	192481	NUT, 3/8"-24 (12.9140)									2	2		
		* OBSOLETE.												

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 0 0	3 0 1	3 0 2	3 0 3	3 0 8	3 1 4	3 1 9	3 2 2	3 2 3	3 2 4	3 2 5	3 2 8
4.1520 - GASKET, OIL PUMP INLET PIPE														
2B	5132832	GASKET,8V53		1				1						
	5126473	GASKET,6V53	AR		AR	AR				AR	AR	1	AR	AR
4.1530 - SCREEN, OIL PUMP INLET														
2B	5155830	SCREEN,3,4-53,6V53	1				1			1				
2A	5126456	SCREEN ASSY.,2,3-53							1					
2A	5126143	SCREEN ASSY.,6,8V53		1	1	1		1			1	1	1	1
	179789	BOLT, 1/4"-20X3/8" (12.9001)	2				2			2				
	186618	BOLT, 5/16"-18X5/8" (12.9001)				2								
	9409010	BOLT, 5/16"-18X5/8" LOCK (12.9001)						2			2	2	2	2
	120393	WASHER, 5/16" (12.9190)		2				2			2	2	2	2
	120380	LOCKWASHER, 1/4" (12.9200)	2				2			2				
	103320	LOCKWASHER, 5/16" (12.9200)				2								
2A	274558	NUT, 5/16"-24 LOCK (12.9140)							2					
4.1580 - PIPE, OIL PUMP OUTLET														
A TUBE AND HOUSING ASSY. INCLUDES ITEMS IN 4.1582 AND 4.1583.														
	5132899	TUBE AND HOUSING ASSY.,8V53		1				1						
	179824	BOLT, 5/16"-18X1 3/4" (12.9001)		2				2						
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)		2				2						
	103320	LOCKWASHER, 5/16" (12.9200)		4				4						
4.1582 - VALVE, OIL PRESSURE RELIEF														
	5132898	VALVE,8V53 (4.1630)		1				1						
4.1583 - SPRING, OIL PRESSURE RELIEF VALVE														
	5155765	SPRING,8V53 (4.1260)		1				1						
	5132897	SEAT,8V53 (4.1701)		1				1						
	455289	PIN, 1/8"X1 1/16" GROOVE (12.9270)		1				1						
4.1590 - GASKET, OIL PUMP OUTLET PIPE														
	5132832	GASKET,8V53 (AT PUMP) (4.1520)		1				1						
	5132471	GASKET,8V53 (AT BLOCK) (1.1066)		1				1						

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		3 0 0	3 0 1	3 0 2	3 0 3	3 0 8	3 1 4	3 1 9	3 2 2	3 2 3	3 2 4	3 2 5	3 2 8
4.1597 - TUBE, OIL PRESSURE GAGE-MARINE													
5118781	HOSE, 3/16" I.D. X 11 3/16" L. (5.1003) 6,8V53				1					1			
5135177	HOSE ASSY., 3/16" I.D. X 98" L. (7.4075)			1									
1508350	CONNECTOR, 1/8" RESTRICTED (7.4074) 6,8V53			1	1					1			
118748	CONNECTOR, 1/4" TUBE			1									

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 2 9	3 3 0	3 3 1	3 3 2	3 3 3	3 3 4	3 3 5	3 3 6	3 3 7	3 4 0	3 4 5	3 4 8
4.1510 - PIPE, OIL PUMP INLET														
2D	5138243	PIPE,6V53 (FIGURE 3)	1											
2D	5138244	PIPE,6V53 (FIGURE 3)		1										
2D	5138422	PIPE,6V53 (FIGURE 3)			1									
2D	5108387	+ PIPE,4-53 (CAST IRON) (FIGURE 2)				1								
	5138583	PIPE,4-53					1							
2D	5126494	+ PIPE,4-53 (CAST IRON) (FIGURE 5)						1						
2D	5139013	PIPE,8V53 (FIGURE 6)							1					
	5139266	PIPE,4-53								1				
2D	5138242	PIPE,6V-53 (FIGURE 3)										1		
	5136859	+ PIPE,6V53											1	
2D	5138246	PIPE,6V53 (FIGURE 3)												1
2A	5140376	+ PIPE ASSY.3-53 (A-5.82",B-6.64")									1			
2A	5127175	SEAL RING					1			1	1			
2A	5119425	FLANGE					1			1	1			
	5139475	+ INLET ASSY. (4.1530)				1		1						
	179816	BOLT, 5/16"-18X3/4" (12.9001)					2			2	4			
	186619	BOLT, 5/16"-18X1 1/8" (12.9001)											2	
	179823	BOLT, 5/16"-18X1 5/8" (12.9001)			2									
	179826	BOLT, 5/16"-18X2" (12.9001)											2	
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)	2	2	2	AR	AR	AR	2	AR	AR	2	AR	2
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		+ OBSOLETE.												
4.1512 - SUPPORT, OIL PUMP INLET TUBE														
	5138254	SUPPORT,6V53	2	2										
2D	5138580	SUPPORT,4-53 (FIGURE 13)				1								
2D	5138752	SUPPORT,4-53 (FIGURE 9)					1							
2D	5138754	SUPPORT,4-53 (FIGURE 14)					1							
2D	5138753	SUPPORT, 4-53 (FIGURE 12)					1							
2D	5138579	SUPPORT,4-53 (FIGURE 13) (4.1520)						1						
2D	5139267	SUPPORT,4-53 (FIGURE 14) (4.1540)							1					
2D	5138418	SUPPORT,6V53 (FIGURE 10)										1		
	5137014	# SUPPORT,6V53											1	
	5138420	SUPPORT,6V53												2
	5136954	+ SPACER, 1/4" PIPE (4.1540)											1	
	186618	BOLT, 5/16"-18X5/8" (12.9001)								1				
	179816	BOLT, 5/16"-18X3/4" (12.9001)				4	4	4		4			2	
	186625	BOLT, 5/16"-18X7/8" (12.9001)					2							
	179812	BOLT, 5/16"-18X1 1/2" (12.9001)					1							
	100014	BOLT, 5/16"-24X1" (12.9001)										2		
	180120	BOLT, 3/8"-16X3/4" (12.9001)	4	4	4							4		4
	120380	BOLT, 3/8"-16X3/4" (12.9001)											2	
	186627	BOLT, 3/8"-24X1" (12.9001)	2	2										2
	5170569	+ WASHER											1	
	120393	WASHER, 5/16" (12.9190)					4			2				
	103341	WASHER, 3/8" (12.9190)	2	2									2	2

4.1000B OIL DISTRIBUTION SYSTEM

			TYPES												
PART	FIG	NUMBER	NAME AND DESCRIPTION	3 2 9	3 3 0	3 3 1	3 3 2	3 3 3	3 3 4	3 3 5	3 3 6	3 3 7	3 4 0	3 4 5	3 4 8
4.1512 - SUPPORT, OIL PUMP INLET TUBE (CONT'D)															
5138619			WASHER, 25/64"x3/4"x.83"	4	4	4		AR	AR	AR		AR		AR	4
103320			LOCKWASHER, 5/16" (12.9200)										AR	AR	
103321			LOCKWASHER, 3/8" (12.9200)	AR	AR	AR							AR	AR	AR
120376			NUT, 5/16"-18 CAD. (12.9120)					2					2		
192481			NUT, 3/4"-25 CAD. (12.9120)	2	2										
			# NOT SERVICED; CONVERT TO TYPE 356.												
			+ OBSOLETE.												
4.1520 - GASKET, OIL PUMP INLET PIPE															
5126473			GASKET,6V53	1	1	1							1	1	1
5180273			GASKET,4-53				1		1						
5132832			GASKET							AR					
5135877			GASKET,6V53											1	
4.1530 - SCREEN, OIL PUMP INLET															
5126143			SCREEN ASSY.	1	1	1				1			1	1	1
5155830			SCREEN ASSY.,3,4-53				1	1	1		1				
5126456			SCREEN ASSY.,2,3,4-53									1			
179789			BOLT, 1/4"-20X3/8" (12.9001)				2		2						
180016			BOLT, 1/4"-20X1/2" (12.9001)					2				2			
9409010			BOLT, 5/16"-18X5/8" LOCK (12.9001)	2	2	2				2			2		2
179816			BOLT, 5/16"-18X3/4" (12.9001)											2	
120392			WASHER, 9/32" (12.9190)					2				2			
120393			WASHER, 5/16" (12.9190)	2	2	2				2			2		2
120380			LOCKWASHER, 1/4" (12.9200)				AR	AR	AR			AR			
103320			LOCKWASHER, 5/16" (12.9200)											2	
274558			NUT, 5/16"-24 LOCK (12.7040)									2			
4.1540 - BRACKET, OIL PUMP SCREEN SUPPORT															
5138633			BRACKET,8V53							1					
186625			BOLT, 5/16"-18X7/8" (12.9001)							1					
179822			BOLT, 5/16"-18X1 1/2" (12.9001)							1					
120393			WASHER, 5/16" (12.9190)							2					
103320			LOCKWASHER, 5/16" (12.9200)							1					
4.1580 - PIPE, OIL PUMP OUTLET															
			A TUBE AND HOUSING ASSY. INCLUDES ITEMS IN 4.1582 AND 4.1583.												
5132899			TUBE & HOUSING ASSY.,8V53							1					

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 2 9	3 3 0	3 3 1	3 3 2	3 3 3	3 3 4	3 3 5	3 3 6	3 3 7	3 4 0	3 4 5	3 4 8
		4.1580 - PIPE, OIL PUMP OUTLET (CONT'D)												
	5137000	* TUBE ASSY.,6V53											1	
	179824	BOLT, 5/16"-18X1 3/4" (12.9001)							2				2	
	179826	BOLT, 5/16"-18X2" (12.9001)												
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)							2					
	103320	LOCKWASHER, 5/16" (12.9200)							AR				AR	
		* OBSOLETE												
		4.1582 - VALVE, OIL PRESSURE RELIEF												
	5132898	VALVE,8V53 (4.1630)							1					
		4.1583 - SPRING, OIL PRESSURE RELIEF VALVE												
	5155765	SPRING							1					
	5132897	SEAT,8V53							1					
	455289	PIN, 1/8"X1 1/16" GROOVE (12.9270)							1					
		4.1590 - GASKET, OIL PUMP OUTLET PIPE												
	5132471	GASKET,8V53 (1.1066)							1					
	5126473	GASKET,6V53 (4.1520)											1	
		4.1597 - TUBE, OIL PRESSURE GAGE-MARINE												
10A,B	5118781	HOSE, 3/16" I.D.X11 3/16" L (5.1003)												
		6,8V53						1	1				1	
	5135177	HOSE ASSY.,6V53 (98"L) (7.4075)												1
	1508350	CONNECTOR, 1/8" RESTRICTED (7.4074)												
		4-53,6,8V53						1	1				1	1
	118748	CONNECTOR,6V53,1/4" (12.9280)												1
	443762	EXTENSION, 1/8 P.T. INT. AND EXT.					1							
		4.1660 - PIPE, BLOWER DRIVE BEARING OIL												
2C	5119476	TUBE ASSY.,4-53 (DEV. L. 7 1/8")						1	1		1			
2C	442321	CONNECTOR,4-53, 1/4" INV. FL. TUBE (12.9460)						1	1		1			
2C	225810	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)						1	1		1			

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 5 1	3 5 3	3 5 5	3 5 6	3 6 2	3 6 7	3 6 8	3 6 9	3 7 0	3 7 2	3 7 5	
4.1510 - PIPE, OIL PUMP INLET														
	5136859	* PIPE,6V53				1								
	5142762	PIPE,2-53 (SCAV.)		1										
	5142686	PIPE,2-53 (PRESS)		1										
	5143469	PIPE,3-53			1									
	5147225	PIPE,8V53 (SCAV.)					1							
2D	5141841	PIPE,8V53 (FIGURE 5)					1							
2D	5135577	PIPE,8V53 (FIGURE 5)						1						
	5138240	PIPE,6V53							1					
	5142011	PIPE,4-53								1				
	5144106	PIPE,3-53									1			
	5109913	PIPE,3-53										1		
2A	5162968	PIPE,4-53 (A-3.66",B-19")											1	
2A	5121214	* PIPE ASSY.,2-53 (A-3.25",B-7.80")	1											
2D	5141435	PIPE ASSY.,8V53 (FIGURE 3)					1							
2A	5127175	SEAL RING	1		1					1	1	1	1	
2A	5119425	FLANGE	1		1					1	1	1	1	
	5133897	* BOLT, "U",5/16"		1										
	179816	BOLT, 5/16"-18X3/4" (12.9001)	4		4					2	2	2	4	
	186314	BOLT, 5/16"-18X2" (12.9001)			2									
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)		3			2	2	2					
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)					2							
	120392	WASHER, 9/32" (12.9190)									2			
	120393	WASHER, 5/16" (12.9190)										2	2	
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	2	AR	AR	AR	AR	AR		AR	AR	
	120376	NUT, 5/16"-18 (12.9120)		1										
	114493	LOCKNUT, 5/16"-24 (2.7170)		2										
		* OBSOLETE												
4.1512 - SUPPORT, OIL PUMP INLET TUBE														
2D	5138752	SUPPORT,4-53 (FIGURE 9)								1				
2D	5138754	SUPPORT,4-53 (FIGURE 14)								1				
2D	5138753	SUPPORT,4-53 (FIGURE 12)								1				
	5138420	SUPPORT,6V53							1					
	5138254	SUPPORT,6V-53							1					
	5131574	SUPPORT,3-54									1			
	186618	BOLT, 5/16"-18X5/8" (12.9001)									3			
	179816	BOLT, 5/16"-18X3/4" (12.9001)								4				
	186625	BOLT, 5/16"-18X7/8" (12.9001)								2				
	179812	BOLT, 5/16"-18X1 1/2" (12.9001)								1				
	180120	BOLT, 3/8"-16X3/4" (12.9001)							4					
	186627	BOLT, 3/8"-24X1" (12.9001)							2					
	120393	WASHER, 5/16" (12.9190)								4	3			
	103341	WASHER, 3/8" (12.9190)							2					
	5138619	WASHER, 25/64"X3/4"X.83"							4					
	103320	LOCKWASHER, 5/16" (12.9200)							AR	AR	AR			
	120376	NUT, 5/16"-18 CAD. (12.9120)								2				
	192481	NUT, 3/4"-25 CAD. (12.9120)							2					

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION										
		3 5 1	3 5 3	3 5 5	3 5 6	3 6 2	3 6 7	3 6 8	3 6 9	3 7 0	3 7 2	3 7 5
4.1520 - GASKET, OIL PUMP INLET PIPE												
5126473	GASKET,6V53					AR	AR	1				
5132832	GASKET,8V53				1							
5135877	GASKET,6V53											
5176680	GASKET,3-53 (2.7020)		2									
4.1530 - SCREEN, OIL PUMP INLET												
5126143	SCREEN ASSY.,6,8V53				1	2	1	1				
5155830	SCREEN ASSY.,3,4-53		2						1	1		
5126456	SCREEN ASSY.,2,3,4-53	1		1							1	1
180016	BOLT, 1/4"-20X1/2" (12.9001)								2	2		
117461	BOLT, 1/4"-20X9/16" (12.9001)		4									
9409010	BOLT, 5/16"-18X5/8" LOCK (12.9001)					4	2	2				
179816	BOLT, 5/16"-18X3/4" (12.9001)				2							
120393	WASHER, 5/16" (12.9190)					5	2	2				
120380	LOCKWASHER, 1/4" (12.9200)		AR						AR	AR		
103320	LOCKWASHER, 5/16" (12.9200)				2							
274558	NUT, 5/16"-24 (12.9140)	2										2
214279	NUT, 5/16"-24 (12.9120)			2							2	
4.1540 - BRACKET, OIL PUMP SCREEN SUPPORT												
5142763	BRACKET,3-53		1									
5143175	BRACKET,4-53 (UPPER)				1							
5143548	BRACKET,4-53 (LOWER)				1							
5141447	BRACKET,8V53 (4.1512)					1						
179816	BOLT, 5/16"-18X3/4" (12.9001)		2		1	1						
100014	BOLT, 5/16"-24X1" (12.9001)				1							
179835	BOLT, 3/8"-16X5/8" (12.9001)					2						
179837	BOLT, 3/8"-16X3/4" (12.9001)				2							
120393	WASHER, 5/16" (12.9190)				2							
446200	WASHER, 3/8" (12.9190)				2							
103320	LOCKWASHER, 5/16" (12.9200)		2		2	1						
103321	LOCKWASHER, 3/8" (12.9200)				2							
114493	LOCKNUT, 5/16"-24 (2.7170)				1							
4.1580 - PIPE, OIL PUMP OUTLET												
A TUBE AND HOUSING ASSY. INCLUDES ITEMS IN 4.1582 AND 4.1583.												
5132899	TUBE & HOUSING ASSY.,8V53					1	1					

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION										
		3 5 1	3 5 3	3 5 5	3 5 6	3 6 2	3 6 7	3 6 8	3 6 9	3 7 0	3 7 2	3 7 5
4.1580 - PIPE, OIL PUMP OUTLET (CONT'D)												
5137000	+ TUBE ASSY.,6V53				1							
5141842	+ TUBE ASSY.,8V53					1						
5144215	JUNCTION BLOCK,8V53 (PUMP TO CYL. BLOCK)							1				
8924749	PLUG, 1/8" PIPE (12.9550)							2				
444692	PLUG, 1/4" PIPE (12.9550)							1				
179819	BOLT, 5/16"-18X1 1/8" (12.9001)				2							
179824	BOLT, 5/16"-18X1 3/4" (12.9001)					2	2					
186648	BOLT, 5/16"-18X1 7/8" (12.9001)					2						
186314	BOLT, 5/16"-18X2" (12.9001)				2							
186643	BOLT, 5/16"-18X2 1/16" (12.9001)							2				
179827	BOLT, 5/16"-18X2 1/4" (12.9001)					2	2					
103320	LOCKWASHER, 5/16" (12.9200)				AR	AR	AR					
	+ OBSOLETE.											
4.1581 - TUBE, JUNCTION BLOCK INLET												
5132612	HOSE,8V53 (#5X11"L) (7.8300)							1				
8924144	ELBOW, 5/16" TUBE 45 DEG. (12.4080)							1				
9432264	CONNECTOR, 5/16" TUBE (12.9460)							1				
4.1582 - VALVE, OIL PRESSURE RELIEF												
5132898	VALVE,8V53 (4.1630)					1	1					
4.1583 - SPRING, OIL PRESSURE RELIEF VALVE												
5155765	SPRING,8V53					1	1					
5132897	SEAT					1	1					
455289	PIN, 1/8"X1 1/16" GROOVE (12.9270)					1	1					
4.1590 - GASKET, OIL PUMP OUTLET PIPE												
5132471	GASKET,8V53 (1.1066)					1	1					
5126473	GASKET,6V53 (4.1520)				2							
5132832	GASKET,8V53 (4.1520)					1	1					
4.1597 - TUBE, OIL PRESSURE GAGE-MARINE												
10A 5144634	HOSE,4-53 (.194" I.D.X15 3/4"L) (4.4340)											1
10A,B 5118781	HOSE,6,8V53,3/16" I.D.X11 3/16" L. (5.1003)				1		1					

DETROIT DIESEL

53 MPC ENGINES

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	351	353	355	356	362	367	368	369	370	372	375
4.1597 - TUBE, OIL PRESSURE GAGE-MARINE (CONT'D)													
	1508350	CONNECTOR, 1/8" RESTRICTED (7.4074)				1		1					1
	444052	ELBOW, 1/8 -45 DEG. STREET (12.9590)											1
4.1660 - PIPE, BLOWER DRIVE BEARING OIL													
2C	5119476	TUBE ASSY., 4-53 (DEV. L. 7 1/8")			1								1
2C	442321	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)			1								1
2C	225810	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)			1								1

4.1000B OIL DISTRIBUTION SYSTEM

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 9 0	3 9 2	4 1 1	4 1 6	4 1 8	4 2 3	4 3 0	4 3 7	4 4 5	4 4 6	4 4 7	4 5 4
4.1510 - PIPE, OIL PUMP INLET														
	5103894	PIPE ASSY., 4-53								1				
2D	5145135	PIPE ASSY., 3-53 (FIGURE 5)	1											
2D	5135577	PIPE ASSY., 8V53 (FIGURE 5)						1						
2D	5146106	PIPE ASSY., 4-53 (FIGURE 4)		1										
	5146846	PIPE ASSY., 3-53 (SCAV.)			1									
	5146478	PIPE ASSY., 3-53			1									
2D	5138246	PIPE ASSY., 6V53				1								1
	5147306	+ PIPE ASSY., 6V53					1							
2A	5142195	PIPE, 3, 4-53 (A-6.62", B-4.40")							1					
2D	5136090	PIPE ASSY., 6V53 (FIG. 15)									1			
	5103896	PIPE ASSY., 6V53										1		
	5106267	PIPE AND ADAPTOR ASSY.											1	
	5113767	HOSE, 3-53, PIPE SHIELDING (SCAV.) (SPLIT)			1									
2A	5127175	SEAL RING	1	1					1					
2A	5119425	FLANGE	1	1					1					
	179816	BOLT, 5/16"-18X3/4" (12.9001)	2	2					4	2		2		
	9423000	BOLT, 5/16"-18X3/4" 12 PT HD.								2		2		
	9421628	BOLT, 5/16"-18X2" SOC. (12.9027)									2			
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)			4	2	2	2						2
	120393	WASHER, 5/16" (12.9190)		4					2	4		2		
	103320	LOCKWASHER, 5/16" (12.9200)		2	4	2	2	2	4	4	2	4	2	2
		+ OBSOLETE												
4.1512 - SUPPORT, OIL PUMP INLET TUBE														
	5145136	SUPPORT, 3-53	1											
	5113739	SUPPORT, 3-53 (SCAV. PIPE)			1									
2D	5146104	SUPPORT, 4-53 (FIGURE 8)		1										
	5138420	SUPPORT, 4-53, 6V53				2	2							2
	5106278	SUPPORT, 4-53											2	
	5136225	SUPPORT, 6V53								2				
	5103874	SUPPORT, 6V53								1				
	8921230	SUPPORT, 4-53										1		
	186618	BOLT, 5/16"-18X5/8" (12.9001)	3										1	
	186625	BOLT, 5/16"-18X7/8" (12.9001)			1									
	179816	BOLT, 5/16"-18X3/4" (12.9001)		2									2	
	120228	BOLT, 5/16"-18X5/8" (12.9001)									1			
	186619	BOLT, 5/16"-18X1 1/8" (12.9001)		1							2			
	181595	BOLT, 5/16"-24X3/4" (12.9001)												
	9409620	BOLT, 7/16"-14X1 1/8" (1.3112)			2									
	186627	BOLT, 3/8"-24X1" (12.9001)				2	2							2
	181365	BOLT, 3/8"-24X1 1/8" (12.9001)								2		2		
	179837	BOLT, 3/8"-16X3/4" (12.9001)				4	4				2			4
	120393	WASHER, 5/16" (12.9190)	3								3			
	5121403	WASHER, 5/16" (3.4080)			1									
	103340	WASHER, 5/16" (12.9190)											3	
	103341	WASHER, 3/8" (12.9190)				8	8		8	2	8	8	8	8
	5138619	WASHER, 25/64"X3/4"X.83"				4	4						3	4
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR						3		3	
	103321	LOCKWASHER, 3/8" (12.9200)				AR	AR			2				4

4.1000B OIL DISTRIBUTION SYSTEM

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 9 0	3 9 2	4 1 1	4 1 6	4 1 8	4 2 3	4 3 0	4 3 7	4 4 5	4 4 6	4 4 7	4 5 4
		4.1512 - SUPPORT, OIL PUMP INLET TUBE (CONT'D)												
	192481	LOCKNUT, 3/8"-24 (12.9140)				2	2			2		2		2
	103025	LOCKNUT, 5/16"-24 (12.9120)									2			
		4.1520 - GASKET, OIL PUMP INLET PIPE												
	5176680	GASKET,3-53 (2.7020)			2									
	5126473	GASKET,6V53				1	1			1		1	1	1
	5132832	GASKET,8V53						1						
	5135877	GASKET,6V53									1			
		4.1530 - SCREEN, OIL PUMP INLET												
2B	5155830	SCREEN,3,4-53	1	1	2								1	
	5126143	SCREEN,6,8V53				1	1	1			1			1
	5152385	SCREEN, 3, 4-53							1	1		1		
2A	5126456	SCREEN ASSY., 3, 4-53 (INCLUDES SCREEN IN 4.1530)							1	1		1		
	180016	BOLT, 1/4"-20X1/2" (12.9001)	2	2	2								2	
	179812	BOLT, 5/16"-18X1/2" (12.9001)									2			
	9409010	BOLT, 5/16"-18X5/8" (12.9001)				2	2	2						2
	120392	WASHER, 1/4" (12.9190)	2	2	2								2	
	120393	WASHER, 5/16" (12.9190)				2	2	4						2
	103319	LOCKWASHER, 1/4" (12.9200)	AR	AR	AR								2	
	103320	LOCKWASHER, 5/16" (12.9200)									2			
	214279	NUT, 5/16"-24 LOCK (12.9120)							2	2		2		
		4.1580 - PIPE, OIL PUMP OUTLET												
		A TUBE AND HOUSING ASSY. INCLUDES ITEMS IN 4.1582 AND 4.1583.												
	5132612	HOSE ASSY.,8V53 (7.8300)						1						
	5132899	TUBE & HOUSING ASSY.,8V53						1						
	5144215	JUNCTION BLOCK,8V53						1						1
	5107439	BRACKET												1
	5159347	SPACER, 13/32"X3/4"X1/2" (7.1581)						2						
	5101297	PLUG, 1/8" PIPE (12.9550)						2						2
	5121182	PLUG, 1/4" PIPE (2.4015)						2						
	8924144	ELBOW, 5/16" TUBE 45 DEG. (12.9480)						1						
	8924218	CONNECTOR, 5/16" TUBE (12.9460)						1						
	179828	BOLT, 5/16"-18X2 1/2" (12.9001)						2						
	179824	BOLT, 5/16"-18X1 3/4" (12.9001)						2						
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)						2						
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)												2
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)												2
	103320	LOCKWASHER, 5/16" (12.9200)						4						
	103321	LOCKWASHER, 3/8" (12.9200)												2
	103323	LOCKWASHER, 1/2" (12.9200)												2

DETROIT DIESEL

53 MPC ENGINES

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 9 0	3 9 2	4 1 1	4 1 6	4 1 8	4 2 3	4 3 0	4 3 7	4 4 5	4 4 6	4 4 7	4 5 4
		4.1582 - VALVE, OIL PRESSURE RELIEF												
	5132898	VALVE,8V53 (4.1630)						1						
		4.1583 - SPRING, OIL PRESSURE RELIEF VALVE												
	5155765	SPRING,8V53 (4.1260)						1						
	5132897	SEAT (4.1701)						1						
	455289	PIN, 1/8"X1 1/16" GROOVE (12.9270)						1						
		4.1590 - GASKET, OIL PUMP OUTLET PIPE												
	5132832	GASKET,8V53 (AT PUMP) (4.1520)						1						
	5132471	GASKET,8V53 (AT BLOCK) (1.1066)						1						
		4.1597 - TUBE, OIL PRESSURE GAGE-MARINE												
10A	5118781	HOSE ASSY.,6,8V53 11.18 L. (5.1003)					1	1						1
	5147571	HOSE ASSY., 6V53, 98" L. (4.1597)				1								
	5199575	HOSE, BULK #6 CUT L. 6" (12.8550)												1
	5199579	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.) (STRAIGHT) (12.8552)												1
	5199593	FITTING, #6 HOSE (45 DEG.) (12.8552)												1
	1508350	CONNECTOR, 1/8" P.T., INT. & EXT. (7.4074)				1	1	1						1
	9432266	CONNECTOR, INV. FL. TUBE (12.9460)				1								1
	193004	ELBOW, 3/8" INV. FL. TUBE (12.9480)												1
		4.1660 - PIPE, BLOWER DRIVE BEARING OIL												
2C	5119476	TUBE ASSY., 4-53 (DEV. L. 7 1/8")		1						1			1	
2C	5130938	TUBE ASSY., 4-53 (DEV. L. 5.50")										1		
2C	8924170	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)		1						1		1	1	
2C	8925032	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)		1						1		1	1	
2C	8924214	TEE, 1/8"-27 PIPE (7.4586)										1		
	8924380	PLUG, 1/8"-22 PIPE (12.9550)										1		

4.1000B OIL DISTRIBUTION SYSTEM

PART			TYPES																
FIG	NUMBER	NAME AND DESCRIPTION	4 5 9	4 6 8	4 7 9	4 8 0	4 8 5	4 8 9	4 9 2										
4.1510 - PIPE, OIL PUMP INLET																			
2D	8922242	PIPE ASSY., 4-53T			1				1										
	5146106	PIPE ASSY., 4-53 (FIGURE 4)				1													
	8920658	PIPE ASSY., 3-53	1																
2D	5162968	PIPE ASSY., 4-53						1											
	5138246	PIPE ASSY., 6V-53																	
	5103056	PIPE ASSY., 6V53								1									
	8924709	ELBOW								1									
	8921280	PIPE ASSY., 4-53		1															
2A	5127175	SEAL RING, .79"X.163"				1			1										
2A	5119425	FLANGE	1			1			1										
	9423000	BOLT, 5/16"-18X3/4" 12 PT. HD. (12.9001)																	
	179816	BOLT, 5/16"-18X3/4" (12.9001)		2	2														
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)	4	2		2		2		4									
	120393	WASHER, 5/16" (12.9190)	2	4						4									
	103320	LOCKWASHER, 5/16" (12.9200)	4	4	2	2	2	2	4	4									
4.1512 - SUPPORT, OIL PUMP INLET TUBE																			
	5138752	SUPPORT (UPPER)			1														
	5138754	SUPPORT (UPPER)			1														
	5138753	SUPPORT (LOWER)			1														
2D	5146104	SUPPORT (FIGURE 8)				1													
	5138420	SUPPORT, 6V53						4											
	8921230	SUPPORT, 4-53 (4.1510)		1															
	5103214	SUPPORT, 6V53								2									
	179816	BOLT, 5/16"-18X3/4" (12.9001)			4	2													
	179812	BOLT, 5/16"-18X1/2" (12.9001)			2														
	186625	BOLT, 5/16"-18X7/8" (12.9001)			2														
	186618	BOLT, 5/16"-18X5/8" (12.9001)				1													
	179837	BOLT, 3/8"-16X3/4" (12.9001)						4		4									
	186627	BOLT, 3/8"-24X1" (12.9001)						4		2									
	181365	BOLT, 3/8"-24X1 1/8" (12.9001)		2															
	120393	WASHER, 5/16" (12.9190)			8	3													
	103341	WASHER, 3/8" (12.9190)		8				16		8									
	5138619	WASHER, 25/64"X3/4"X.83"						4		4									
	103320	LOCKWASHER, 5/16" (12.9200)			8	3													
	103321	LOCKWASHER, 3/8" (12.9200)						4		4									
	120376	NUT, 5/16"-18 (12.9120)			2														
	192481	LOCKNUT, 3/8"-24 (12.9140)		2				4		2									
4.1520 - GASKET, OIL PUMP INLET PIPE																			
	5126473	GASKET		1	1		1												
	8924711	GASKET								1									
	5103043	GASKET								1									
4.1530 - SCREEN, OIL PUMP INLET																			
2B	5155830	SCREEN, 3, 4-53			1	1													
	5126143	SCREEN, 6V53					1		2										
2A	5126456	* SCREEN ASSY., 3, 4-53	1	1					1										
	5152385	SCREEN, 3, 4-53	1	1					1										
	180016	BOLT, 1/4"-20X1/2" (12.9001)			2	2		2		4									
	9409010	BOLT, 5/16"-18X5/8" (12.9001)						2											
	120392	WASHER, 1/4" (12.9190)			2														
	120393	WASHER, 5/16" (12.9190)						2		4									
	103319	LOCKWASHER, 1/4" (12.9200)			2	2													
	214279	NUT, 5/16"-24 LOCK (12.9120)	2						2										
		* INCLUDES SCREEN IN 4.1530.																	

4.1000C OIL PRESSURE REGULATOR

PART			TYPES																
FIG	NUMBER	NAME AND DESCRIPTION	8	9	1 2	1 4	1 5	1 6	2 9										
4.1690 - SPRING, OIL PRESSURE REGULATOR																			
1A	5121309	* SPRING,2,3,4-53,6V53			2														
1A	5126436	@ SPRING,2,3,4-53,6V53 (ORANGE STRIPE) (4.1260)	1	2	2	2	2	2	4										
1A	5132706	SPRING,8V53 (BLUE STRIPE) * THRU 2D-13568, 3D-4294, 4D-4026, 6D-3857 FOR TYPE 12. @ EFFECTIVE WITH 2D-13569, 3D-4295, 3D-6027, 6D-3858 FOR TYPE 12.						2											
4.1700 - VALVE, OIL PRESSURE REGULATOR																			
1A	5177777	+ VALVE (4.4140)	1	2	2		2		4										
1A	5109804	# VALVE,6V53			2														
1A	5143021	VALVE,6V53			2	2													
1A	5132707	VALVE,6,8V53 + THRU 6D-3857. # EFFECTIVE WITH 6D-3858, THRU 6D-22443, NOT SERVICED; FOR SERVICE REQUIREMENTS, USE 5143021 PLUS (1) 51362 27 PLUG.						2											
4.1710 - PLUG, OIL PRESSURE REGULATOR																			
1A	5113657	+ PLUG	1	2	2		2	2	4										
1A	5109803	PLUG,6V53			1														
1A	5136227	& PLUG,6V53 + THRU 6D-3857 FOR TYPE 12. & EFFECTIVE WITH 6D-10498.			1	2													
4.1720 - GASKET, OIL PRESSURE REGULATOR PLUG																			
1A	5177773	GASKET (4.4170)	1	2	2	2	2	2	4										

4.2000A OIL FILTER

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	108	109	111	112	115	116	117	130	134	135	144	145
	4.2240	FILTER ASSY., OIL												
		SEE ASSEMBLY BREAKDOWN PAGE AS INDICATED BELOW. FOR TYPES 130 & 134 ALSO SEE OIL FILTER LINES, 4.3000A, TYPE 98. FOR TYPE 139 USE TYPE 147.												
	5121120	= FILTER ASSY., 3.4-53, 6, 8V53 (9" ELEMENT) (PAGE A1) (5134392)	1									1		1
	5121143	= FILTER ASSY., 2.3-53 (6" ELEMENT) (PAGE A1) (5134393)		1										
	5570098	+ FILTER ASSY., 2-53 (BY-PASS) (S-6) (PAGE A1)			1									
	5572941	FILTER ASSY., 2-53 (BY-PASS) (PAGE A1)				1								
	5196393	FILTER ASSY., 3-53, 6V53 (9.3650) (PAGE B1)					1							
	5122527	* FILTER ASSY., 4-53 (PAGE A1)						1						
	5124065	FILTER ASSY., 8V53 (FULL FLOW) (PAGE C1)							1					
	5181797	= FILTER ASSY., 4-53, 6, 8V53 (PAGE A1) (5147683)								1			1	
	5125025	FILTER ASSY., 2.3-53 (PAGE A1)									1			
	5573199	+ DECAL (4.2280)				1								
	5573162	+ DECAL (4.2280)	1				1	1	1	1	1	1	1	1
	5575213	+ DECAL (4.2280)		1							1			
	128003	BUSHING, 1"X3/4" RED. (12.9570)									AR			
	5111798	PLUG, 1" PIPE (12.9550)									AR			
	179839	BOLT, 3/8"-16X1" (12.9001)				4	4							
3A	186679	BOLT, 3/8"-16X1 1/4" (12.9001)	4	4				4				4		
3A	186309	BOLT, 3/8"-24X3 1/4" (12.9001)												4
3A	103341	WASHER, 3/8" (12.9190)	4	4				4				4		
3A	103321	LOCKWASHER, 3/8" (12.9200)	4	4		4	4	4				4		4
	117049	NUT, 3/8"-24 (12.9120)											4	
		= NOT SERVICED. COMPONENTS ARE AVAILABLE. FOR REPLACEMENT USE ASSY. NUMBER IN PARENTHESES, PLUS (2) 128003 AND (2) 5111798.												
		* NOT SERVICED. COMPONENTS ARE AVAILABLE. FOR REPLACEMENT CONVERT TO TYPE 152 FOR LD ENGINE, TYPE 153 FOR RB ENGINE.												
		+ OBSOLETE.												
	4.2291	ADAPTOR, OIL FILTER COVER												
	5127268	ADAPTOR, 6, 8V53 (MOUNTING) (CANTED INBOARD 13 DEG.)											1	
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)											4	
	103321	LOCKWASHER, 3/8" (12.9200)											4	

4.2000A OIL FILTER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		1 0 8	1 0 9	1 1 1	1 1 2	1 1 5	1 1 6	1 2 7	1 3 0	1 3 4	1 3 5	1 4 4	1 4 5
	4.2293 - GASKET, OIL FILTER COVER ADAPTOR												
	5128486 GASKET,6.8V53 (MOUNTING ADAPTOR) (4.2350)										1		
	4.2350 - GASKET, OIL FILTER ADAPTOR												
IA	5121205 GASKET	1	1				1				1		
IA	5575086 GASKET,3-53 (4.2489)					1							
	5128439 GASKET,2-53,6V53 (MOUNTING ADAPTOR) (4.2440)												1
	4.2440 - BRACKET, OIL FILTER MOUNTING												
	5122631 BRACKET,3-53					1							
	5122681 SPACER (1/2" PIPE X 3 1/4"L.)					1							
	186628 BOLT, 3/8"-16X1 1/2" (12.9001)					2							
	190256 BOLT, 1/2"-13X4 1/2" (12.9001)					1							
	103321 LOCKWASHER, 3/8" (12.9200)					2							
	103323 LOCKWASHER, 1/2" (12.9200)					1							
	4.2450 - PLATE, OIL FILTER MOUNTING												
	5119237 PLATE,2-53 (4.2440)				1								
	5127826 PLATE,6V53 (4.2440)												1
	186628 BOLT, 3/8"-16X1 1/2" (12.9001)												2
	179882 BOLT, 1/2"-13X1 1/8" (12.9001)				4								
	103321 LOCKWASHER, 3/8" (12.9200)												2
	103323 LOCKWASHER, 1/2" (12.9200)				4								

4.2000A OIL FILTER

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 4 7	1 5 2	1 5 3	1 5 5	1 5 6	1 5 7	1 5 8	1 6 2	1 6 7	1 6 9	1 7 0	1 7 3
		4.2240 - FILTER ASSY., OIL												
		SEE ASSEMBLY BREAKDOWN PAGE AS INDICATED BELOW.												
	5121120	= FILTER ASSY., 3,4-53, 6,8V53 (9" ELEMENT) (PAGE A1) (5134392)							1	1	1	1	1	
	5121143	= FILTER ASSY., 2,3-53 (6" ELEMENT) (PAGE A1) (5134393)								1				
	5572941	FILTER ASSY., 2-53 (BY-PASS) (PAGE A1)						1						
	5196393	FILTER ASSY., 3-53, 6V53 (19.3650) (PAGE B1)												1
	5126275	+ FILTER ASSY., 4-53 (PAGE A1) (5134406)	1	1										
	5126276	* FILTER ASSY., 4-53 (PAGE A1) (5134408)			1									
	5126283	* FILTER ASSY., 3-53 (PAGE B1) (5134407)				1								
	5126284	* FILTER ASSY., 3-53 (PAGE B1) (5134409)					1							
	5573199	% DECAL (4.2280)						1						
	5573162	% DECAL (4.2280)	1	1	1				1	1	1	1	1	1
	5575213	% DECAL (4.2280)				1	1			1				
	179839	BOLT, 3/8"-16X1" (12.9001)						4						2
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)		4	4	4	4							
3A	186679	BOLT, 3/8"-16X1 1/4" (12.9001)							4		4	4	4	2
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)									4			
	179851	BOLT, 3/8"-16X3" (12.9001)								4				
3A	103341	WASHER, 3/8" (12.9190)	4	4	4	4	4	4	4	4	4	4	4	4
3A	103321	LOCKWASHER, 3/8" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
		= NOT SERVICED, COMPONENTS ARE AVAILABLE, FOR REPLACEMENT USE ASSY. NUMBER IN PARENTHESES, PLUS (2) 128003 AND (2) 5111798.												
		* NOT SERVICED, COMPONENTS ARE AVAILABLE, FOR REPLACEMENT USE ASSY. NUMBER IN PARENTHESES.												
		% OBSOLETE.												
		+ NOT SERVICED, USE (1) EACH OF ADAPTOR 5104419, GASKET 8921708 AND ELEMENT 25101495.												
		4.2291 - ADAPTOR, OIL FILTER COVER												
	5129617	ADAPTOR, 6,8V53 (MOUNTING) (OFFSET 45 DEG.)							1					
	5108758	ADAPTOR, 4-53 (MOUNTING)									1			
	5109340	ADAPTOR, 4-53 (MOUNTING)										1		
	5108821	ADAPTOR, 6V53 (MOUNTING)											1	
	5122388	+ SPACER (4.2290) (SD-157)								1				
	426368	BOLT, 3/8"-16X3/4" HEX. SKT. HD. (12.9027)									4	4		
	138242	BOLT, 3/8"-16X1" HEX. SKT. HD. (12.9027)											1	
		+ OBSOLETE.												

4.2000A OIL FILTER

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 4 7	1 5 2	1 5 3	1 5 5	1 5 6	1 5 7	1 5 8	1 6 2	1 6 7	1 6 9	1 7 0	1 7 3
		4.2291 - ADAPTOR, OIL FILTER COVER (CONT'D)												
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)											3	
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)							4					
	103321	LOCKWASHER, 3/8" (12.9200)							4				4	
		4.2293 - GASKET, OIL FILTER COVER ADAPTOR												
	5128486	GASKET,6,8V53 (MOUNTING ADAPTOR) (4.2350)							1					
	5121205	GASKET,4-53 (MOUNTING ADAPTOR) (4.2350)								1	1			
	5108828	GASKET,6,8V53 (MOUNTING ADAPTOR)										1	1	
		4.2350 - GASKET, OIL FILTER ADAPTOR												
3A	5121205	GASKET		1	1	1	1		1		1	1	1	
	5128439	GASKET (MOUNTING ADAPTOR) (4.2440)								2				
		4.2440 - BRACKET, OIL FILTER MOUNTING												
	5128121	BRACKET,2-53						1						
	5100382	BRACKET,6V53												1
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)												2
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)						3						
	103323	LOCKWASHER, 1/2" (12.9200)						3						
		4.2470 - SUPPORT, OIL FILTER MOUNTING												
	5108825	SUPPORT,6V53												1
	122408	BOLT, 1/2"-13X1" (12.9001)												2
	103323	LOCKWASHER, 1/2" (12.9200)												2

DETROIT DIESEL

53 MPC ENGINES

4.2000A OIL FILTER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		1 7 7	1 8 1	1 8 3	1 8 4	1 8 6	1 9 0	1 9 4	2 0 1	2 0 3	2 1 0	2 1 6	2 2 0
4.2240 - FILTER ASSY., OIL													
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.													
5121143	= FILTER ASSY., 3-53 (PAGE A1) (5134393)	1											
5181797	# FILTER ASSY., 4-53, 6V53 (PAGE A1) (5147683)		1										
5572941	FILTER ASSY., 3-53 (PAGE A1)			1									
5121120	= FILTER ASSY., 6, 8V53 (PAGE A1) (5134392)				1				1				
5125384	# FILTER ASSY., 3-53, 6V53 (PAGE B1) (5147683)					1							
2325391	FILTER ASSY., 6V53 (PAGE B1)						1						
5133313	= FILTER ASSY., 6V53 (PAGE C1) (5147683)							1					
5572942	* FILTER ASSY., BY-PASS, 3-53 (PAGE B1)									1			
5134392	= FILTER ASSY., 4-53, 6, 8V53 (PAGE B1) (5100800) (PAGE C1)										1		
5136237	% FILTER ASSY., 3-53 (PAGE B1)											1	
5575213	% DECAL (4.2280)	1										1	
5573162	% DECAL (4.2280)		1		1	1		1	1		1		1
5573199	% DECAL (4.2280)			1						1			
5133279	BUSHING (1/2" X 1/4" RED., RESTRICTED) (4.3001)						1						
5111798	PLUG, 1" PIPE (12.9550)							1					
186612	BOLT, 3/8"-16 X 1 3/8" (12.9001)	4							4				
186622	BOLT, 3/8"-16 X 1 1/4" (12.9001)									4			
186282	BOLT, 3/8"-16 X 3 1/4" (12.9001)										4		
181370	BOLT, 3/8"-24 X 1 1/4" (12.9001)		3			4						4	
181374	BOLT, 3/8"-24 X 1 1/2" (12.9001)		1										
186309	BOLT, 3/8"-24 X 3 1/4" (12.9001)				4						4		
103341	WASHER, 3/8" (12.9190)	4						4					
103321	LOCKWASHER, 3/8" (12.9200)	4	AR		4	4		4	4		4	4	
102635	NUT, 3/8"-16 (12.9120)								4				
117049	NUT, 3/8"-24 (12.9120)		4		4	4					4	4	
* NOT SERVICED; USE 5570141 FILTER, (2) 132375 BOLTS, (2) 5127156 STRAPS, (2) 138485 LOCKWASHERS AND (2) 120376 NUTS.													
= NOT SERVICED; COMPONENTS ARE AVAILABLE. FOR COMPLETE REPLACEMENT USE ASSY. NUMBER IN PARENTHESES.													
# NOT SERVICED; COMPONENTS ARE AVAILABLE. FOR REPLACEMENT USE ASSY. NUMBER IN PARENTHESES PLUS (2) 128003 AND (2) 5111798.													
% OBSOLETE.													

4.2000A OIL FILTER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		1 7 7	1 8 1	1 8 3	1 8 4	1 8 6	1 9 0	1 9 4	2 0 1	2 0 3	2 1 0	2 1 6	2 2 0
	4.2250 - ELEMENT, OIL FILTER												
	5573014 ELEMENT,6V53							1					
	5574978 ELEMENT,3-53 (6") (AC TYPE PF-147) (INCLUDES GASKET IN 4.2300)												1
	4.2280 - SHELL, OIL FILTER												
	5574008 SHELL,6V53 (INCLUDES PLUG)							1					
	5574906 SHELL,3-53 (INCLUDES PLUG)												1
	5570480 PLUG							1					1
	4.2290 - COVER, OIL FILTER												
	5147684 COVER,6V53							1					
	5134311 ADAPTOR,3-53 (COVER)												1
	5121182 PLUG, 1/4" PIPE (2.4015)												1
	186622 BOLT, 3/8"-16X1 1/4" (12.9001)												4
	103321 LOCKWASHER, 3/8" (12.9200)												4
	4.2291 - ADAPTOR, OIL FILTER COVER												
	5108758 ADAPTOR,3,4-53 (MOUNTING)	1											
	426368 BOLT, 3/8"-16X3/4" HEX. SKT. HD. (12.9027)	4											
	4.2293 - GASKET, OIL FILTER COVER ADAPTOR												
	5121205 GASKET (MOUNTING ADAPTOR) (4.2350)	1											
	4.2300 - GASKET, OIL FILTER COVER												
	5571024 GASKET,3-53							1					1
	4.2310 - SPRING, OIL FILTER												
	5187308 SPRING,3-53							1					1

4.2000A OIL FILTER

PART		TYPES												
..FIG ..	NUMBER	NAME AND DESCRIPTION	1 7 7	1 8 1	1 8 3	1 8 4	1 8 6	1 9 0	1 9 4	2 0 1	2 0 3	2 1 0	2 1 6	2 2 0
4.2315 - RETAINER, OIL FILTER SPRING														
5187309	RETAINER,3-53								1					1
122366	NUT, 5/8"-18 (12.9120)								1					1
4.2330 - GASKET, OIL FILTER COVER NUT														
5187310	GASKET, RETAINER,3-53								1					1
6437298	GASKET,3-53								1					1
5154538	WASHER (1.8182)								1					1
4.2350 - GASKET, OIL FILTER ADAPTOR														
5121205	GASKET,3-53	1							1				1	1
5128439	GASKET,6,8V53 (4.2440)				1					1		1		
5182874	CLIP, 1" (9.1720)									2				
428204	BOLT, 5/8"-11X1" (12.9001)									1				
103345	WASHER, 5/8" (12.9190)									1				
4.2410 - STUD, OIL FILTER CENTER														
5116427	STUD,3-53 (9.14"L)													1
5120740	STUD,6V53 (12.22"L)								1					
4.2440 - BRACKET, OIL FILTER MOUNTING														
5130207	BRACKET,6V53		1			1								
5132468	BRACKET,6V53				1									
5134768	BRACKET,8V53									1				
5136662	BRACKET,8V53											1		
5157412	SPACER (7.4013)											4		
186629	BOLT, 5/16"-18X1" (12.9001)		1			1								
179839	BOLT, 3/8"-16X1" (12.9001)		1			1								
454906	BOLT, 3/8"-16X1 1/2" (12.9001)				2							2		
186725	BOLT, 1/2"-13X1 1/2" (12.9001)									2				
120393	WASHER, 5/16" FLAT (12.9190)		1			1								
103320	LOCKWASHER, 5/16" (12.9200)		1			1								
103321	LOCKWASHER, 3/8" (12.9200)		1		2	1								
103323	LOCKWASHER, 1/2" (12.9200)									2				
4.2485 - VALVE, OIL FILTER BYPASS														
A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486 AND 4.2488.														
5133431	VALVE,3-53													1
5198303	VALVE KIT,3-53													1

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

PART	
FIG . . . NUMBER	NAME AND DESCRIPTION
1	1.
2	2.
3	3.
4	4.
5	5.
6	6.
7	7.
8	8.
9	9.
10	10.
11	11.
12	12.
13	13.
14	14.
15	15.
16	16.
17	17.
18	18.
19	19.
20	20.
21	21.
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32	32.
33	33.
34	34.
35	35.
36	36.
37	37.
38	38.
39	39.
40	40.
41	41.
42	42.
43	43.
44	44.
45	45.
46	46.
47	47.
48	48.
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93	93.
94	94.
95	95.
96	96.
97	97.
98	98.
99	99.
100	100.

4.2486 - SPRING, OIL FILTER BYPASS VALVE

5134477 SPRING,3-53

4.2488 - PLUG, OIL FILTER BYPASS VALVE

5134456 RETAINER,3-53

160221 SCREW, #12-24X1/2" PAN. HD.
CR/RECESS (12.9025)

TYPES	
177	
181	
183	
184	
186	
190	
194	
201	
203	
210	
216	
220	1
	1
	1

4.2000A OIL FILTER

[illegible]

4.2000A OIL FILTER

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION										
		2 2 1	2 2 4	2 2 5	2 2 6	2 2 7	2 2 9	2 3 2	2 3 4	2 3 5	2 3 6	2 3 8
	4.2293 - GASKET, OIL FILTER COVER ADAPTOR											
	5121205 GASKET (MOUNTING ADAPTOR) (4.2350)	1	1		1	1		1			1	
	5128486 GASKET,6V53 (MOUNTING ADAPTOR) (4.2350)		1								1	
	4.2350 - GASKET, OIL FILTER ADAPTOR											
3A	5121205 GASKET,3-53	1										
	4.2388 - HOUSING, OIL FILTER BY-PASS VALVE											
	5134301 HOUSING,3-53								1			
	186679 BOLT, 3/8"-16X1 1/4" (12.9001)								2			
	186283 BOLT, 3/8"-16X3 1/2" (12.9001)								1			
	450517 BOLT, 3/8"-16X3 3/4" (12.9001)								1			
	103321 LOCKWASHER, 3/8" (12.9200)								4			
	4.2389 - GASKET, OIL FILTER BY-PASS HOUSING											
	5123932 GASKET,3-53 (4.2350)								1			
	4.2400 - VALVE, OIL FILTER BY-PASS											
	5133431 VALVE,3-53 (4.2485)								1			
	5134477 SPRING (4.2486)								1			
	5134456 RETAINER (4.2488)								1			
	160221 SCREW, #12-24X1/2" PAN. HD. CR/RECESS (12.9050)								1			
	4.2440 - BRACKET, OIL FILTER MOUNTING											
	5134768 BRACKET,8V53											1
	5137701 BRACKET,6V53			1								
	5137739 BRACKET,6V53						1					
	5126116 BRACKET,3-53								1			
	5137965 BRACKET,4-53										1	
	5173144 SPACER (13/32"X3/4"X1 13/16") (4.8040)						2					
	179838 BOLT, 3/8"-16X7/8" (12.9001)							2	2			
	186619 BOLT, 3/8"-16X1 1/8" (12.9001)						2					
	186679 BOLT, 3/8"-16X1 1/4" (12.9001)									3		
	454906 BOLT, 3/8"-16X1 1/2" (12.9001)			2								
	215510 BOLT, 3/8"-16X5 3/4" (12.9001)						1					
	181374 BOLT, 3/8"-24X1 1/2" (12.9001)								1			
	186658 BOLT, 3/8"-24X5 1/2" (12.9001)						1					

4.2000A OIL FILTER

PART		TYPES															
..FIG ..	NUMBER	NAME AND DESCRIPTION															
		2 2 1	2 2 4	2 2 5	2 2 6	2 2 7	2 2 9	2 3 2	2 3 4	2 3 5	2 3 6	2 3 8					
4.2440 - BRACKET, OIL FILTER MOUNTING (CONT'D)																	
186725	BOLT, 1/2"-13X1 1/2" (12.9001)											2					
186631	BOLT, 1/2"-13X2 1/4" (12.9001)									1							
120394	WASHER, 3/8" (12.9190)						2 AR										
103321	LOCKWASHER, 3/8" (12.9200)								2								
103323	LOCKWASHER, 1/2" (12.9200)											2					
4.2470 - SUPPORT, OIL FILTER MOUNTING																	
5137702	+ SUPPORT, 6V53			1													
186627	BOLT, 3/8"-24X1" (12.9001)			1													
179886	BOLT, 1/2"-13X1 5/8" (12.9001)			1													
103321	LOCKWASHER, 3/8" (12.9200)			1													
117049	NUT, 3/8"-24 (12.9120)			1													
	+ OBSOLETE.																

4.2000A OIL FILTER

			TYPES											
PART .FIG . . . NUMBER NAME AND DESCRIPTION			2 3 9	2 4 0	2 4 1	2 4 2	2 4 3	2 4 4	2 4 5	2 4 7	2 4 8	2 4 9	2 5 0	2 5 2
4.2240 - FILTER ASSY., OIL														
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.														
5137659	@	FILTER ASSY.,6.8V53 (PAGE C1) (5147683)		1		1					1			1
5134408	+	FILTER,4-53 ASSY. (PAGE C1)			1									
5125025		FILTER ASSY.,3,4-53 (PAGE A1)					1			1				
5134392	=	FILTER ASSY. (5100800) (PAGE C1) (PAGE B1)							1			1	1	
5573162	%	DECAL (4.2280)		1	1	1		1	1		1	1	1	1
5575213	%	DECAL (4.2280)					1			1				
128003		BUSHING, 1"X3/4" RED. (12.9570)					AR			AR				
5111798		PLUG, 1" PIPE (12.9550)					AR			AR				
186619		BOLT, 3/8"-16X1 1/8" (12.9001)			4									
186612		BOLT, 3/8"-16X1 3/8" (12.9001)					4							
186628		BOLT, 3/8"-16X1 1/2" (12.9001)						4				4	4	
181370		BOLT, 3/8"-24X1 1/4" (12.9001)		4				4		4	4			
103341		WASHER, 3/8" (12.9190)			4			4	4	4		4	4	
103321		LOCKWASHER, 3/8" (12.9200)		AR	AR		AR	AR	AR	AR	AR	AR	AR	
123234		NUT, 3/8"-16 (BRASS) (12.9120)					4							
117049		NUT, 3/8"-16 (BRASS) (12.9120)						4		4	4			
@ NOT SERVICED; COMPONENTS ARE AVAILABLE. FOR REPLACEMENT USE ASSY. IN PARENTHESES PLUS (2) 128003 AND (2) 5111798.														
= NOT SERVICED; COMPONENTS ARE AVAILABLE. FOR REPLACEMENT USE ASSY. IN PARENTHESES.														
% OBSOLETE.														
+ NOT SERVICED; COMPONENTS ARE AVAILABLE. FOR REPLACEMENT USE ONE (1) EACH OF 5104419, 8921708 AND 25010495.														
4.2250 - ELEMENT, OIL FILTER														
IA	5574978	ELEMENT,3-53 (6") (AC TYPE PF-147) (INCLUDES GASKET IN 4.2300)		1					1					
IA	5573014	ELEMENT,4-53,6V53												
4.2270 - SPACER, OIL FILTER														
5157412		SPACER,4-53 (7.4013)									3			
4.2280 - SHELL, OIL FILTER														
5574906		SHELL,3-53 (INCLUDES PLUG)		1						1				
5574008		SHELL,3,4-53,6V53 (INCLUDES PLUG)						1						
5570480		PLUG (2.3050)		1				1		1				

4.2000A OIL FILTER

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	2 3 9	2 4 0	2 4 1	2 4 2	2 4 3	2 4 4	2 4 5	2 4 7	2 4 8	2 4 9	2 5 0	2 5 2
4.2290 - COVER, OIL FILTER														
3A	5134311	ADAPTOR,3-53,6V53 (COVER)	1											
	5147684	ADAPTOR						1		1				
	5121182	PLUG, 1/4" PIPE (2.4015)	2											
	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	4		4					4				
3A	103321	LOCKWASHER, 3/8" (12.9200)	4											
4.2291 - ADAPTOR, OIL FILTER COVER														
	5134304	ADAPTOR,6,8V53 (TO BLOCK) (STRAIGHT) (4.3025)				1			1					
	5109340	ADAPTOR,4-53 (MOUNTING)										1		
	5142751	ADAPTOR,8V53 (MOUNTING)											1	
	5108821	ADAPTOR,8V53 (MOUNTING)												1
	5134302	ADAPTOR,6,8V53 (TO BLOCK) (90 DEG.) (4.2240)												1
	426368	BOLT, 3/8"-16X3/4" HEX. SKT. HD. (12.9001)							4					
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)				4								
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)				4	3			3		4	4	4
	103341	WASHER, 3/8" (12.9190)				4						4	4	4
	103321	LOCKWASHER, 3/8" (12.9200)				AR						AR	AR	AR
4.2293 - GASKET, OIL FILTER COVER ADAPTOR														
	5121205	GASKET (MOUNTING ADAPTOR) (4.2350)			1				1			1		
	5108828	GASKET,6,8V53											1	
	5133263	GASKET,6V53 (MOUNTING ADAPTOR) (4.3027)				1								
4.2300 - GASKET, OIL FILTER COVER														
	5571024	GASKET,3-53 (4.2300)	1											
4.2310 - SPRING, OIL FILTER														
3A	5187308	SPRING,3,4-53,6V53	1					1		1				
4.2315 - RETAINER, OIL FILTER SPRING														
3A	5187309	RETAINER,3,4-53,6V53	1					1		1				
3A	122366	NUT, 5/8"-18 (12.9120)	1					1		1				
4.2330 - GASKET, OIL FILTER COVER NUT														
3A	5187310	GASKET, RETAINER 3,4-53,6V53	1					1		1				
3A	6437298	GASKET,3,4-53,6V53	1					1		1				
3A	5154538	WASHER (1.8182)	1					1		1				

4.2000A OIL FILTER

PART			TYPES											
..FIG	NUMBER	NAME AND DESCRIPTION	2 3 9	2 4 0	2 4 1	2 4 2	2 4 3	2 4 4	2 4 5	2 4 7	2 4 8	2 4 9	2 5 0	2 5 2
4.2350 - GASKET, OIL FILTER ADAPTOR														
3A	5121205	GASKET,3,4-53	1						1	1			1	
3A	5128039	GASKET,8V53										1		1
	5137549	GASKET,6,8V53												
	5128439	GASKET,8V53 (4.2440)						1						
	5571024	GASKET,4-53,6V53 (4.2300)								1				
4.2410 - STUD, OIL FILTER CENTER														
	5116427	STUD,3-53	1							1				
3A	5120740	STUD,4-53,6V53						1						
4.2440 - BRACKET, OIL FILTER MOUNTING														
	5137753	BRACKET,8V53		1										
	5137965	BRACKET,3,4-53					1			1				
	5130207	BRACKET,6V53						1						
	5124849	SPACER,6V53,25/64" I.D.X3/4" O.D.X. 76" (7.4538)						2						
	5140645	SPACER,8V53, 17/32"X1.00"X.84" (7.1581)		1										
	179824	BOLT, 5/16"-18X1 3/4" (12.9001)						1						
	179839	BOLT, 3/8"-16X1" (12.9001)								3				
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)					3							
	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)						1						
	179886	* BOLT, 1/2"-13X1 5/8" (12.9001)		1										
	186631	* BOLT, 1/2"-13X2 1/4" (12.9001)		1										
	179883	# BOLT, 1/2"-13X3" (12.9001)		2										
	120393	WASHER, 5/16" (12.9190)						1						
	103320	LOCKWASHER, 5/16" (12.9200)						AR						
	103321	LOCKWASHER, 3/8" (12.9200)						AR						
	103323	LOCKWASHER, 1/2" (12.9200)		AR						AR				
		* USE WHEN MARINE GEAR IS SPECIFIED.												
		# USE WHEN NO MARINE GEAR IS SPECIFIED.												
4.2485 - VALVE, OIL FILTER BYPASS														
		A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486, AND 4.2488.												
3A	5133431	VALVE	1				1							1
	5198303	VALVE KIT	1				1							1
4.2486 - SPRING, OIL FILTER BYPASS VALVE														
3A	5134477	SPRING	1				1							1

4.2000A OIL FILTER

PART			TYPES											
..FIG	..NUMBER	NAME AND DESCRIPTION	2 3 9	2 4 0	2 4 1	2 4 2	2 4 3	2 4 4	2 4 5	2 4 7	2 4 8	2 4 9	2 5 0	2 5 2
4.2488 - PLUG, OIL FILTER BYPASS VALVE														
3A	5134456	RETAINER	1			1								1
3A	160221	SCREW, #12-24X1/2" CR. REC. HD. (12.9026)	1			1								1
4.2497 - TUBE, LOW OIL PRESSURE SWITCH														
	5121182	PLUG, 1/4" PIPE (12.9550)					1			1				

4.2000A OIL FILTER

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	2 5 8	2 5 9	2 6 0	2 6 8	2 7 4	2 7 5	2 7 9	2 8 4	2 8 8	2 9 1	3 0 6	
4.2240 - FILTER ASSY., OIL														
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.														
	5137659	@ FILTER ASSY., 6.8V53 (PAGE C1) (5147683)									1		1	
	5125025	FILTER ASSY., 3.4-53 (PAGE A1)				1								
	5134392	= FILTER ASSY. (5100800) (PAGE C1) (PAGE B1)							1					
	5134393	= FILTER ASSY., 2-53 (5100757) (PAGE C1) (PAGE B1)	1											
	5136237	+ FILTER ASSY., 3-53 (PAGE B1) (4.2001)			1									
	5136524	FILTER ASSY., 8V53 (PAGE C1)					1							
	5199700	= FILTER ASSY., 3-53 (5100758) (PAGE C1)							1					
	5573162	% DECAL (4.2280)					1	1	1		1		1	
	5575213	% DECAL (4.2280)	1	1	1	1				1				
	127849	* ELBOW, 1/2"-90 DEG. STREET (12.9590)		1										
	5115214	* PLUG, 1/2" PIPE (12.9550)		1										
	5111798	PLUG, 1" PIPE (12.9550)									1			
	186282	BOLT, 3/8"-16X3 1/4" (12.9001)	4						4					
	181370	BOLT, 3/8"-24X1 1/4" (12.9001)			4			4			4		4	
	103341	WASHER, 3/8" (12.9190)	4		4				4					
	103321	LOCKWASHER, 3/8" (12.9200)	AR		AR			AR	AR		AR		AR	
	117049	NUT, 3/8"-24 (12.9120)			4			4			4		4	
		@ NOT SERVICED; COMPONENTS ARE AVAILABLE FOR REPLACEMENT USE ASSY. IN PARENTHESES PLUS (2) 128003 AND (2) 5111798.												
		= NOT SERVICED; COMPONENTS ARE AVAILABLE FOR REPLACEMENT USE ASSY. IN PARENTHESES.												
		+ ASSY. NOT SERVICED; USE COMPONENTS.												
		* ASSEMBLE IN CYLINDER BLOCK.												
		% OBSOLETE.												
4.2250 - ELEMENT, OIL FILTER														
3A	5574978	ELEMENT, 3-53 (6") (AC TYPE PF-147) (INCLUDES GASKET IN 4.2300)								1				
3A	5573014	ELEMENT, 4-53, 6V53		1				1				1		
4.2270 - SPACER, OIL FILTER														
	5157412	SPACER, 4-53 (7.4013)						3						
	5143064	SPACER, 3-53 (4.2290)						1	1					

4.2000A OIL FILTER

			TYPES										
FIG	PART NUMBER	NAME AND DESCRIPTION	2 5 8	2 5 9	2 6 0	2 6 8	2 7 4	2 7 5	2 7 9	2 8 4	2 8 8	2 9 1	3 0 6
4.2280 - SHELL, OIL FILTER													
3A	5574906	SHELL,3-53 (INCLUDES PLUG)								1			
	5574008	SHELL,3,4-53,6V53 (INCLUDES PLUG)		1				1		1			
	5570480	PLUG (2.3050)		1				1					
4.2290 - COVER, OIL FILTER													
3A	5134311	ADAPTOR,3-53,6V53 (COVER)		1									
	5147684	ADAPTOR,3,4-53,6V53						1					
	5134908	# ADAPTOR,3-53								1			
	5121182	PLUG, 1/4" PIPE (2.4015)		1						2			
3A	186619	BOLT, 3/8"-16X1 1/8" (12.9001)		4									
	179844	BOLT, 3/8"-16X1 5/8" (12.9001)								4			
	103341	WASHER, 3/8" (12.9190)								4			
3A	103321	LOCKWASHER, 3/8" (12.9200)		4						4			
		# NOT SERVICED; USE 5100818 ADAPTOR AND 5573711 GASKET.											
4.2291 - ADAPTOR, OIL FILTER COVER													
	5134304	ADAPTOR,6,8V53 (TO BLOCK) (STRAIGHT) (4.3025)										1	
	5134302	ADAPTOR,6,8V53 (TO BLOCK) (90 DEG.) (4.2240)								1			1
	5139178	ADAPTOR,4-53 (MOUNTING)		1									
	5122388	+ SPACER, (SD-157)	1										
	5147341	SPACER (4.2290)											1
	5121182	PLUG, 1/4" PIPE (12.9550)										1	
	138242	BOLT, 3/8"-16X1" (12.9001)		1									
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)		3						4		4	
	179846	BOLT, 3/8"-16X1 7/8" (12.9001)											4
	103341	WASHER, 3/8" (12.9190)										4	
	103321	LOCKWASHER, 3/8" (12.9200)		AR							AR	AR	AR
		+ OBSOLETE.											
4.2293 - GASKET, OIL FILTER ADAPTOR TO OIL COOLER ADAPTOR													
	5121205	GASKET (MOUNTING ADAPTOR) (4.2350)		1					1	1			
	5108828	GASKET,6,8V53		1									
	5133263	GASKET,6V53 (MOUNTING ADAPTOR) (4.3027)										1	
4.2310 - SPRING, OIL FILTER													
3A	5187308	SPRING,3,4-53,6V53		1				1		1			

4.2000A OIL FILTER

PART			TYPES											
..FIG ..	NUMBER ..	NAME AND DESCRIPTION ..	2 5 8	2 5 9	2 6 0	2 6 8	2 7 4	2 7 5	2 7 9	2 8 4	2 8 8	2 9 1	3 0 6	
4.2315 - RETAINER, OIL FILTER SPRING														
3A	5187309	RETAINER,3,4-53,6V53		1				1		1				
3A	122366	NUT, 5/8"-18 (12.9120)		1				1		1				
4.2330 - GASKET, OIL FILTER COVER NUT														
3A	5187310	GASKET, RETAINER		1				1		1				
3A	6437298	GASKET,3,4-53,6V53		1				1		1				
3A	5154538	WASHER (1.8182)		1				1		1				
4.2350 - GASKET, OIL FILTER ADAPTOR														
3A	5121205	GASKET,3,4-53				1								
	5137549	GASKET,6,8V53									1		1	
	5128439	GASKET,8V53 (4.2440)	1											
	5571024	GASKET,4-53,6V53 (4.2300)		1				1						
4.2410 - STUD, OIL FILTER CENTER														
	5116427	STUD,3-53								1				
3A	5120740	STUD,4-53,6V53		1				1						
4.2440 - BRACKET, OIL FILTER MOUNTING														
	5137965	BRACKET,3,4-53						1						
	5140034	* BRACKET,3-53			1									
	5137739	BRACKET,6V53									1		1	
	5160629	SPACER, 13/32"x7/32" (4.2270)			1									
	5173144	SPACER, 13/32"x3/4"x1 13/16" (4.8040)									2		2	
	181342	BOLT, 5/16"-24X1 3/8" (12.9001)			1									
	179839	BOLT, 3/8"-16X1" (12.9001)						3						
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			2						2		2	
	215510	BOLT, 3/8"-16X5 3/4" (12.9001)									1		1	
	186318	BOLT, 3/8"-24X5 1/4" (12.9001)												
	186658	BOLT, 3/8"-24X5 1/2" (12.9001)									1			
	120393	WASHER, 5/16" (12.9190)			1									
	103341	WASHER, 3/8" (12.9190)			2									
	120394	WASHER, 13/32" (12.9190)									2		2	
	103320	LOCKWASHER, 5/16" (12.9200)				AR					AR		AR	
	103321	LOCKWASHER, 3/8" (12.9200)						AR						
	114493	NUT, 5/16"-24 (12.9120)			1									
		* OBSOLETE.												
4.2485 - VALVE, OIL FILTER BYPASS														
		A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486, AND 4.2488.												
3A	5133431	VALVE		1				1		1	1		1	

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

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

4.2000A OIL FILTER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	258	259	260	268	274	275	279	284	288	291	306
		4.2485 - VALVE, OIL FILTER BY-PASS (CONT'D)											
	5198303	VALVE KIT		1				1		1	1	1	1
		4.2486 - SPRING, OIL FILTER BY-PASS VALVE											
3A	5134477	SPRING		1				1		1	1	1	1
		4.2488 - PLUG, OIL FILTER BY-PASS VALVE											
3A	5134456	RETAINER		1				1		1	1	1	1
3A	450865	+ # SCREW, #12-24X3/4" RD. HD. (12.9065)		1				1		1	1	1	1
3A	160221	* SCREW, #12-24X1/2" CR. REC. HD. (12.9065) + EARLY ENGINES * LATE ENGINES # NOT SERVICED, USE 160221.		1				1		1	1	1	1
		4.2495 - BRACKET, OIL PRESSURE SWITCH											
	5188572	BRACKET ASSY., 6V53		1									
	272473	BOLT, 3/8"-16X3 7/8" (12.9001)		1									
	103341	WASHER, 3/8" (12.9190)		1									
		4.2497 - TUBE, LOW OIL PRESSURE SWITCH											
	5142710	TUBE ASSY., 6V53 (DEV. L. 10.10")		1									
	5121182	PLUG, 1/4" PIPE (2.4015)		1									
	225815	ELBOW, 5/16" INV. FL. TUBE 90 DEG. (12.9480)		1									

4.2000A OIL FILTER

PART		TYPES												
FIG . . .	NUMBER	NAME AND DESCRIPTION												
		3 1 3	3 1 4	3 3 1	3 3 2	3 3 6	3 3 7	3 4 5	3 4 9	3 5 0	3 5 1	3 5 3	3 5 4	3 5 5
4.2240 - FILTER ASSY., OIL														
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.														
5147683	FILTER ASSY., 6V53 (PAGE C1)						1		1					1
5134392	+ FILTER ASSY., 4-53(5100800) (PAGE B1)	1												
5105058	* FILTER ASSY., 3-53(PAGE A1)				1									
5134393	+ FILTER ASSY., 3-53(5100757) (PAGE B1)		1											
5105075	* FILTER ASSY., 3-53 (PAGE A1)			1										
5107009	FILTER ASSY., 6V53 (PAGE C1)							1						
5100800	FILTER ASSY., 4-53, 6, 8V53 (PAGE C1)									1	1			
5100757	FILTER ASSY., 2, 3-53 (PAGE C1)											1		
5134408	# FILTER ASSY., 4-53 (PAGE C1)												1	
5104201	FILTER ASSY., 4-53 (PAGE C1)					1								
5573162	% DECAL (4.2280)	1												
5575213	% DECAL (4.2280)		1											
5105050	% DECAL (PORTUGUESE)			1	1									
5111798	PLUG, 1" PIPE (12.9550)								2					2
179839	BOLT, 3/8"-16 X 1" (12.9001)							4						
186619	BOLT, 3/8"-16X1 1/8" (12.9001)				4									
186622	BOLT, 3/8"-16X1 1/4" (12.9001)			4			4							
186628	BOLT, 3/8"-16 X 1 1/2" (12.9001)	4	4			2			2	4	4	4	4	
108608	BOLT, 3/8"-16 X 2 1/8" (12.9001)								2					
9418964	BOLT, 3/8"-16X5" (12.9001)					2								
103341	WASHER, 3/8" (12.9190)	4	4		4	4	4		4	4	4	4	4	
103321	LOCKWASHER, 3/8" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4	
123221	NUT, 3/8"-16 (12.9120)						4							
+ NOT SERVICED, COMPONENTS ARE AVAILABLE, FOR REPLACEMENT USE ASSY. IN PARENTHESES.														
% OBSOLETE.														
* NOT SERVICED, USE 5104419 ADAPTOR, 8921708 GASKET AND 25011106 FILTER ELEMENT.														
# NOT SERVICED; COMPONENTS ARE AVAILABLE, FOR REPLACEMENT USE ONE (1) EACH OF 5104419, 8921708 AND 25010495.														
4.2250 - ELEMENT, OIL FILTER														
3A	5574978	ELEMENT, 3-53 (6") (AC TYPE PF-147) (INCLUDES GASKET IN 4.2300)												
			1											
3A	5573014	ELEMENT, 4V53 (9") (AC TYPE PF-132) (INCLUDES GASKET IN 4.2300)												
		1												
4.2291 - ADAPTOR, OIL FILTER COVER														
5134304	ADAPTOR, 6V53							1						1
5104771	ADAPTOR, 6V53								1					
5108821	ADAPTOR, 4, 6, 8V-53										1			
5121182	PLUG, 1/4" PIPE (2.4015)							1						
138242	BOLT, 3/8"-16 X 1" SOCKET HEAD (12.9027)											1		
186622	BOLT, 3/8"-16 X 1 1/4" (12.9001)							4						4
186628	BOLT, 3/8"-16 X 1 1/2" (12.9001)										3			
103321	WASHER, 3/8" (12.9200)							4			3			4
103341	LOCKWASHER, 3/8" (12.9190)							4						4

4.2000A OIL FILTER

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	3 1 3	3 1 4	3 3 1	3 3 2	3 3 6	3 3 7	3 4 5	3 4 9	3 5 0	3 5 1	3 5 3	3 5 4	3 5 5
	4.2293	GASKET, OIL FILTER ADAPTOR TO OIL COOLER ADAPTOR													
5133263		GASKET (4.3027)							1						1
5108828		GASKET										1			
	4.2350	GASKET, OIL FILTER ADAPTOR													
5121205		GASKET, 3, 4-53	1	1	1	1	1				1	1	1	1	
5104866		GASKET, 6V53								1					
	4.2440	BRACKET, OIL FILTER MOUNTING													
5103556		BRACKET, 6V53						1							
5107020		BRACKET, 6V53							1						
5160629		SPACER, 13/32"X7/32" (4.2270)						2							
9425364		BOLT, 3/8"-24X4 1/2" (12.9001)						2							
214054		BOLT, 5/16"-18X6 1/4" (12.9001)						2							
120393		WASHER, 5/16" (12.9190)						4							
103026		NUT, 3/8"-24 (12.9120)						2							
	4.2485	VALVE, OIL FILTER BYPASS													
		A VALVE KIT INCLUDES ITEMS IN 4.2485, 4.2486 AND 4.2488.													
5133431		VALVE, 3-53							1	1					1
5198303		VALVE KIT, 3-53							1	1					1
	4.2486	SPRING, OIL FILTER BYPASS VALVE													
5134477		SPRING, 3-53							1	1					1
	4.2488	PLUG, OIL FILTER BYPASS VALVE													
5134456		RETAINER, 3-53							1	1					1
160221		SCREW, #12-24 X 1/2" (12.9025)							1	1					1