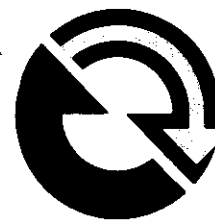


DETROIT DIESEL



Series 53 Parts Catalog

Volume 2

GROUP NOMENCLATURE

1.0000 ENGINE (less major assemblies)		5.0000 COOLING SYSTEM (CONT'D)	
1.1000	Cylinder Block	5.3000B	Water Connections
1.1000A	Air Box Drains	5.4000A	Fan
1.2000	Cylinder Head	5.4000B	Fan Shroud
1.2000A	Engine Lifter Bracket	5.5000A	Heat Exchanger or Keel Cooling
1.3000	Crankshaft, Oil Seals and Stabilizers	5.6000A	Raw Water Pump
1.3000A	Crankshaft Front Cover	5.7000A	Water Filter
1.3000B	Vibration Damper		
1.3000C	Crankshaft Pulley	6.0000 EXHAUST SYSTEM	
1.3000D	Crankshaft Pulley Belt	6.1000A	Exhaust Manifold and/or Connections
1.4000A	Flywheel	6.2000A	Exhaust Muffler and/or Connections
1.5000A	Flywheel Housing		
1.5000B	Flywheel Housing Adaptor	7.0000 ELECTRICAL INSTRUMENTS	
1.6000	Connecting Rod and Piston	7.1000A	Battery Charging Generator
1.7000	Camshaft and Gear Train	7.2000A	Battery Cables
1.7000A	Balance Weight Cover	7.2000B	Automatic Starting
1.7000B	Accessory Drive	7.2000B	Automatic Starting (Twin and Quad)
1.8000	Valve Injector Operating Mechanism	7.3000A	Starting Motor
1.8000A	Rocker Cover	7.4000A	Instruments
		7.4000A	Instruments (Twin and Quad)
2.0000 FUEL SYSTEM		7.4000B	Tachometer Drive
2.1000A	Fuel Injector	7.4000B	Tachometer Drive (Twin and Quad)
2.1000B	Electronic Injector Controls	7.4000C	Shutoff, Alarm and O.S. Governor
2.2000	Fuel Pump	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000A	Fuel Pump Drain	7.5000A	Power Generator
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.6000A	Control Cabinet (Twin and Quad)
2.4000	Fuel Manifold and/or Connections	7.7000A	Wiring Harness
2.4000A	Dual Fuel System	7.8000A	Air Heater
2.5000A	Fuel Lines and Fuel Cooler	7.8000A	Air Heater (Twin and Quad)
2.6000A	Fuel Lines and Fuel Cooler (Twin and Quad)	7.10000A	Hydraulic Governor Solenoid
2.6000A	Fuel Tank		
2.6000B	Electric Governor	8.0000 POWER TAKE-OFF	
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch
2.8000A	Hydraulic Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.9000	Injector Controls	8.3000A	Torque Converter
2.9000	Injector Controls (Twin and Quad)	8.3000A	Torque Converter (Twin and Quad)
2.9000A	Throttle Controls	8.3000B	Transmission Lines
2.9000A	Throttle Controls (Twin and Quad)		
3.0000 AIR SYSTEM		9.0000 TRANSMISSION AND PROPULSION	
3.1000A	Air Cleaner and/or Adaptor	9.1000A	Hydraulic Marine Gear
3.2000A	Air Silencer	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.3000A	Air Inlet Housing	9.2000A	Reverse and Reduction Gear (mechanical)
3.3000C	Air Intake Manifold	9.3000A	Power Transfer Gear
3.4000	Blower and Drive	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000A	Blower Drive Shaft	9.4000	Transmission—Highway
3.4000B	Blower End Plate Cover	9.7000	Transmission—Off-highway
3.5000A	Turbocharger, Intercooler, and Aftercooler	9.8000	Transmission—Rail Car
4.0000 LUBRICATING SYSTEM		10.0000 SHEET METAL	
4.1000A	Oil Pump	10.1000A	Engine Hood
4.1000B	Oil Distribution System		
4.1000C	Oil Pressure Regulator	11.0000 ENGINE MOUNTING	
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base
4.3000A	Oil Filter Lines	11.1000A	Engine Mounting and Base (Twin and Quad)
4.4000A	Oil Cooler and Marine Gear Lines		
4.5000A	Oil Filler	12.0000 MISCELLANEOUS	
4.6000A	Dipstick	12.2000A	Bilge Pump
4.7000A	Oil Pan	12.3000A	Vacuum Pump
4.8000A	Ventilating System	12.4000A	Air Compressor
		12.5000A	Hydraulic Pump
5.0000 COOLING SYSTEM		12.6000A	Gasoline Starter
5.1000	Fresh Water Pump	12.6000B	Air Starter
5.1000A	Fresh Water Pump Cover	12.6000C	Cold Weather Starting Aid
5.2000A	Water Outlet Manifold and/or Elbow	12.6000D	Hydraulic Starter
5.2000B	Thermostat	12.6000E	Hydraulic Starter Accessories
5.2000C	Water Bypass Tube	12.8000A	Supplies
5.3000A	Radiator	12.8000B	Fabrication Material
		12.8000C	Miscellaneous Service Kits and Sets
		12.8000D	Miscellaneous Service Parts

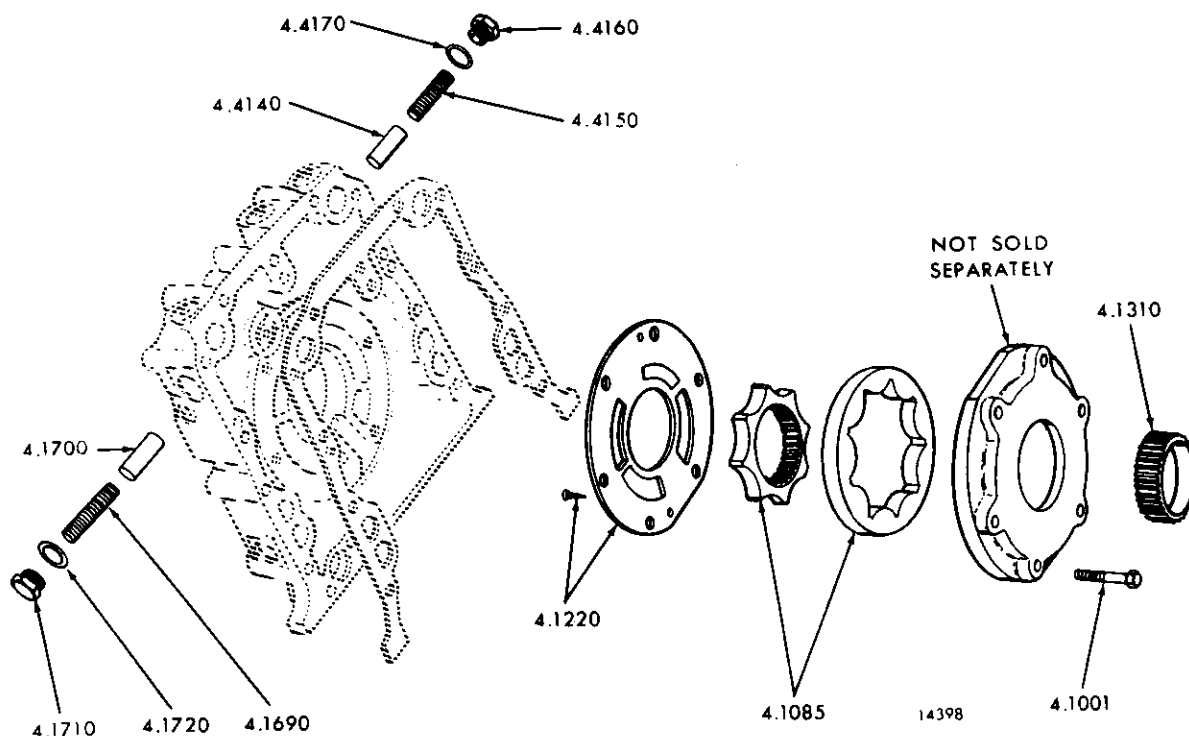


FIG. 1A OIL PUMP AND PRESSURE REGULATOR (In-Line Models)

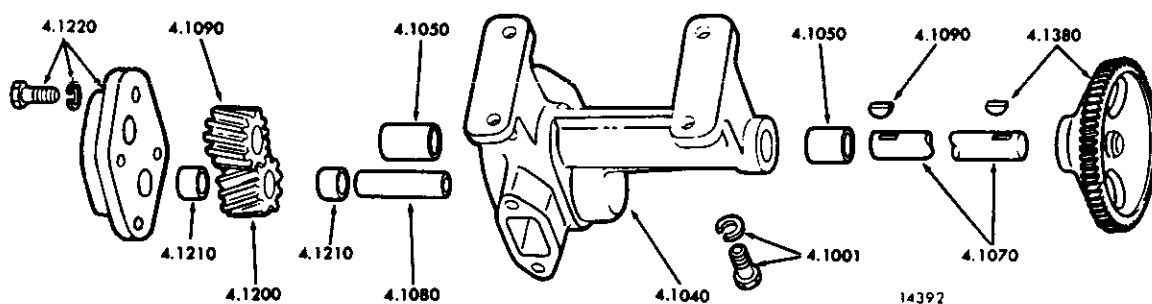


FIG. 1B OIL PUMP (8V)

Figs. 1A & 1B of 4.0000

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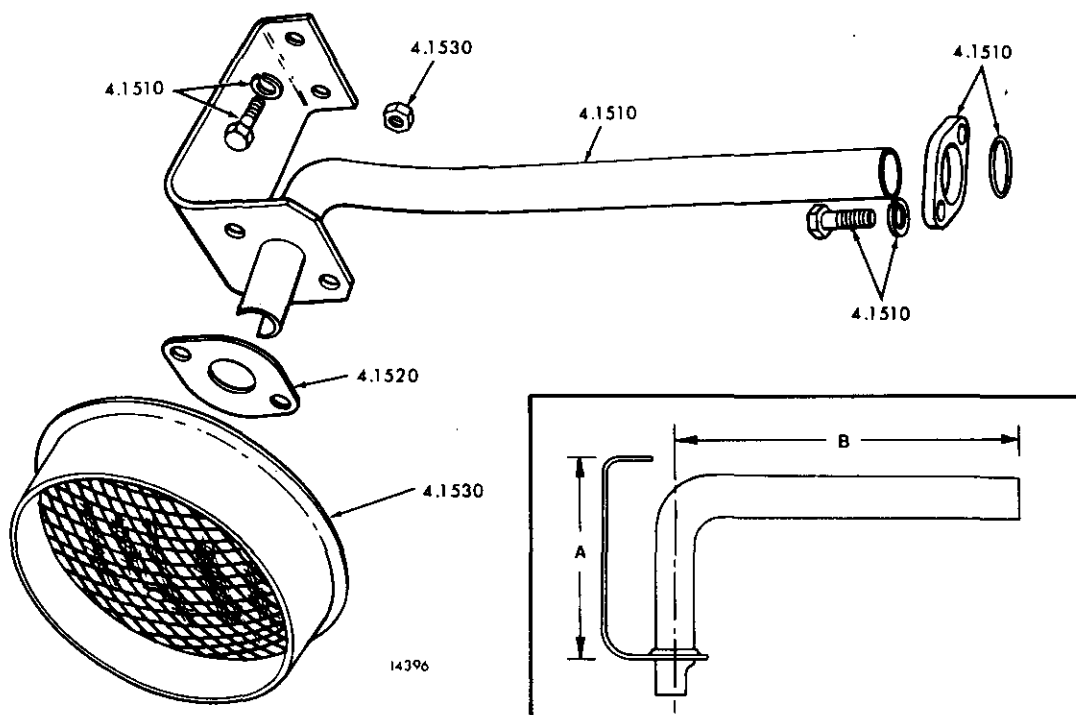


FIG. 2A OIL DISTRIBUTION SYSTEM

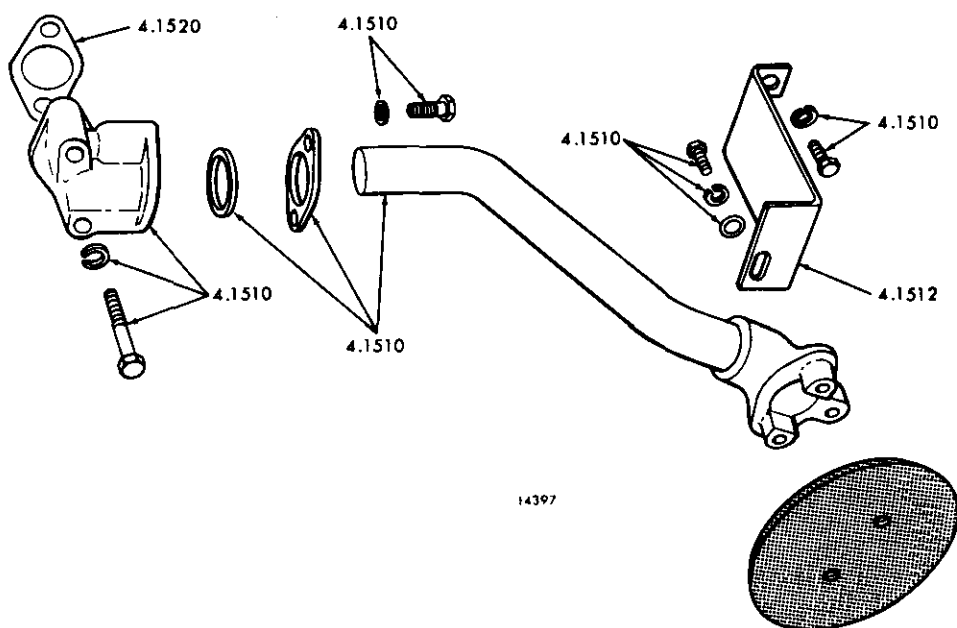


FIG. 2B OIL DISTRIBUTION SYSTEM (8V)

Figs. 2A & 2B of 4.0000

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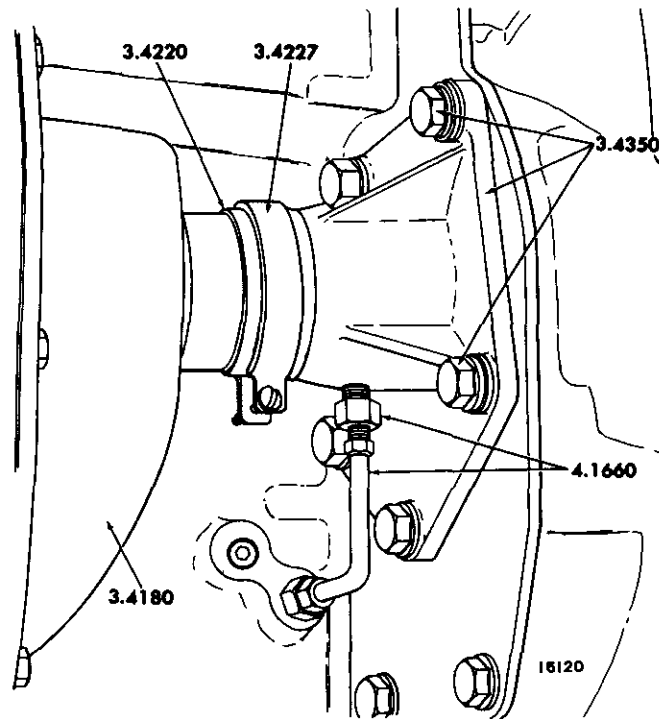


FIG. 2C OIL DISTRIBUTION SYSTEM

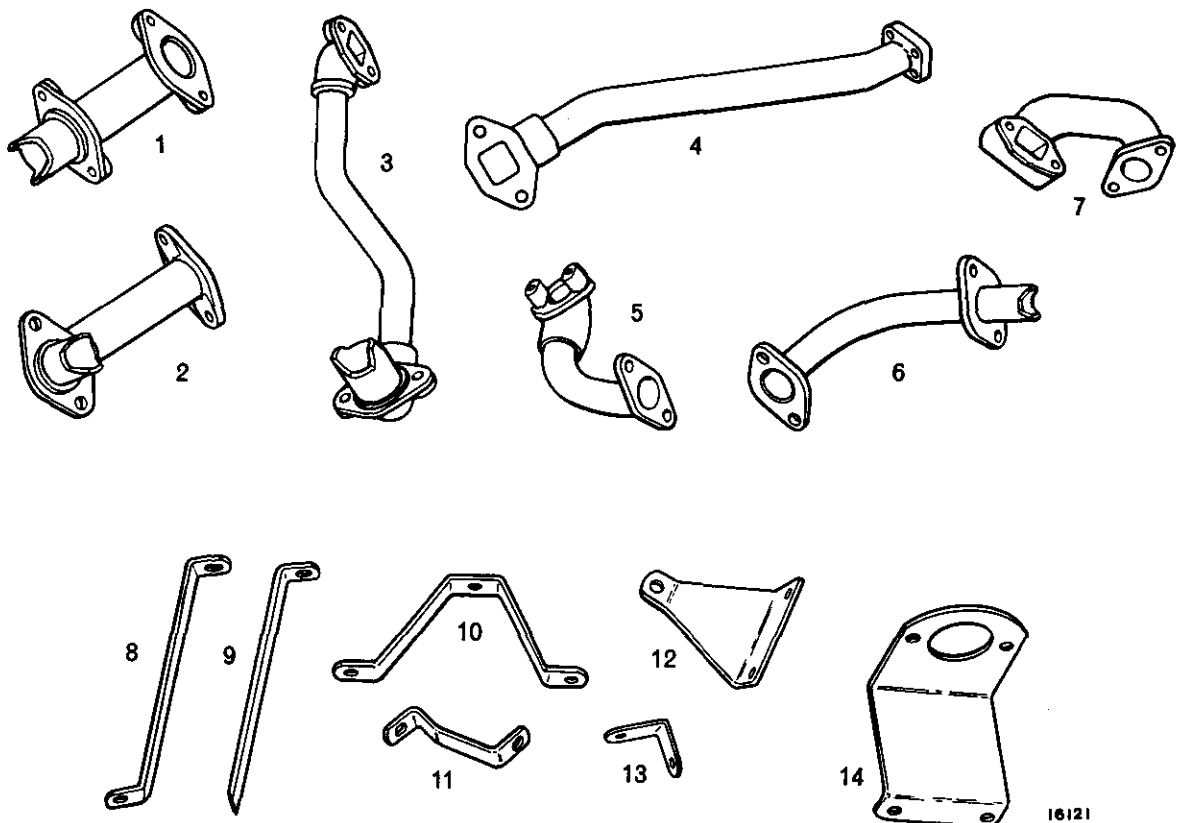


FIG. 2D OIL INLET PIPES

Figs. 2C & 2D of 4.0000

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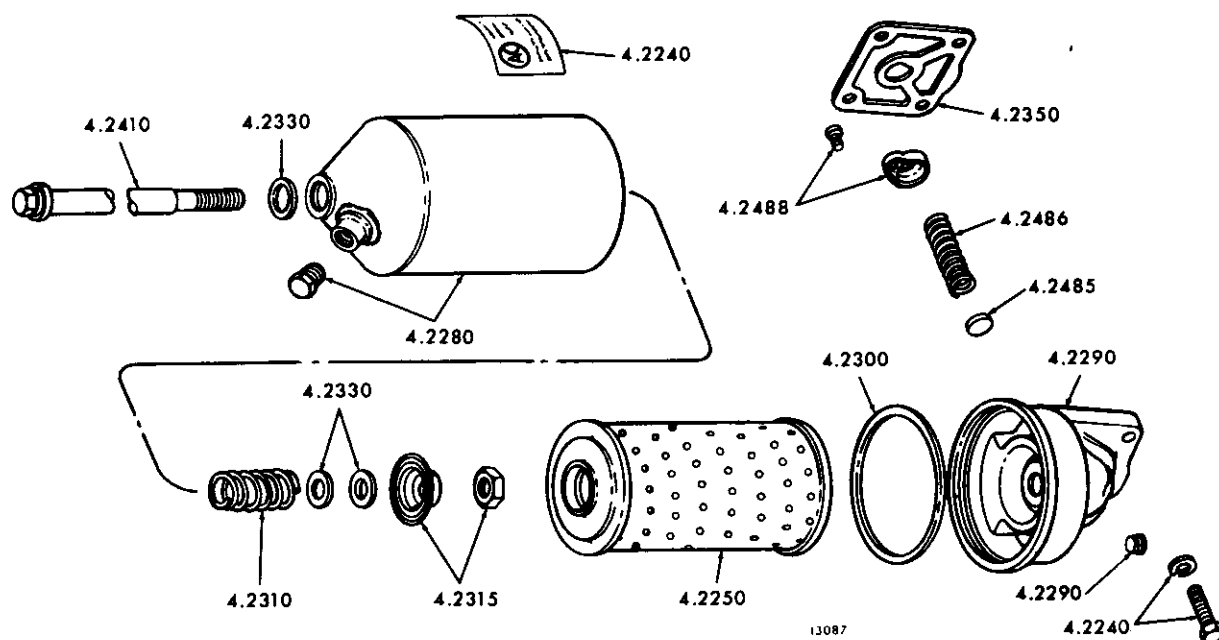


FIG. 3A OIL FILTER

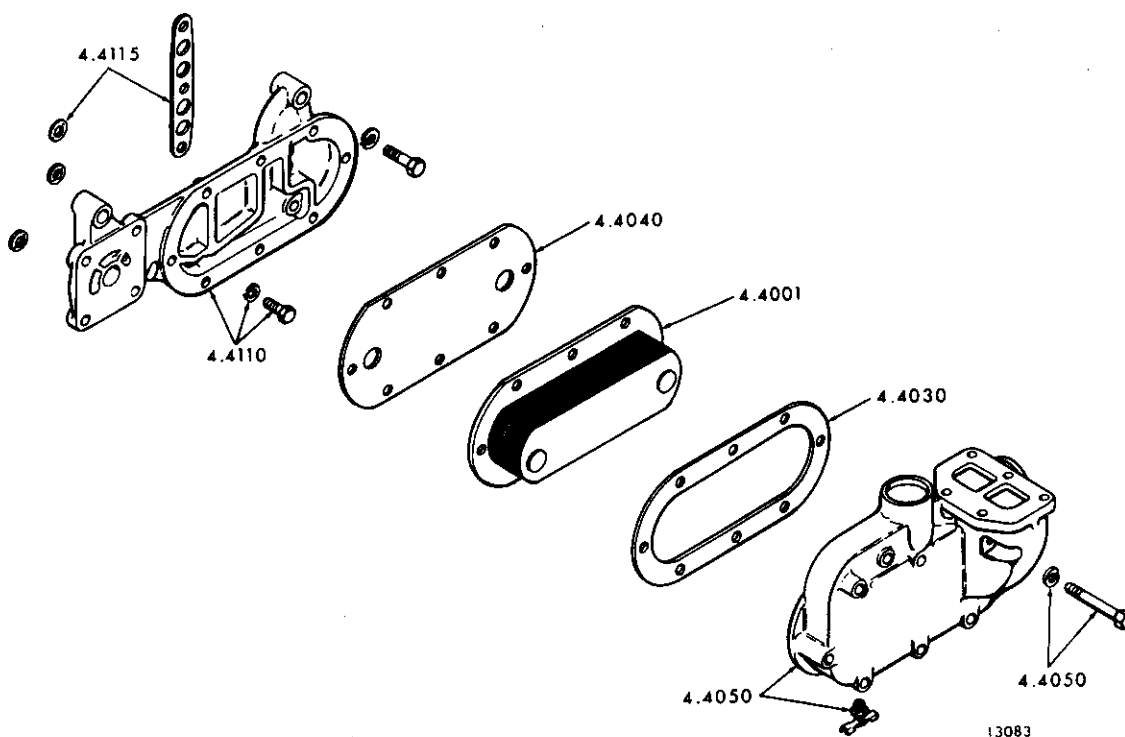


FIG. 4A OIL COOLER

Figs. 3A & 4A of 4.0000

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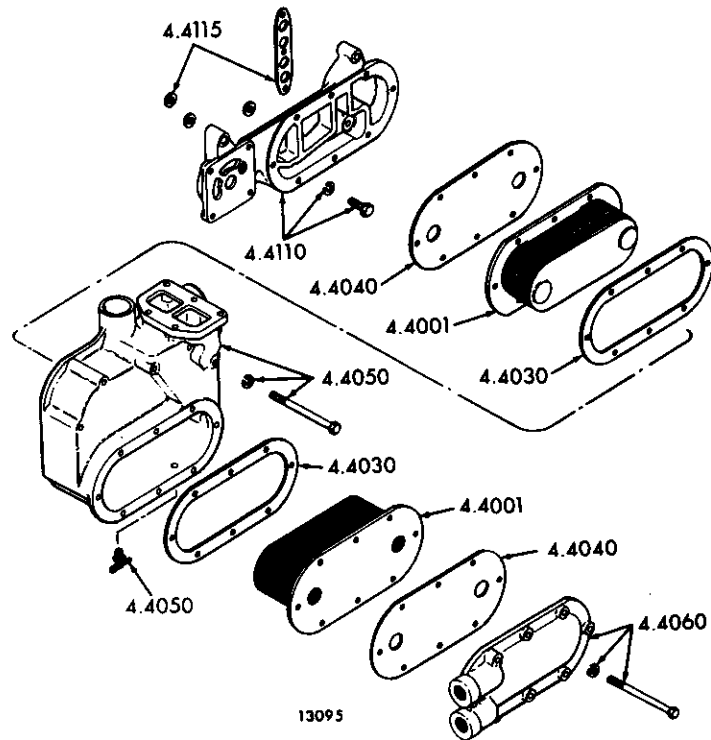


FIG. 4B TORQUE CONVERTER OIL COOLER

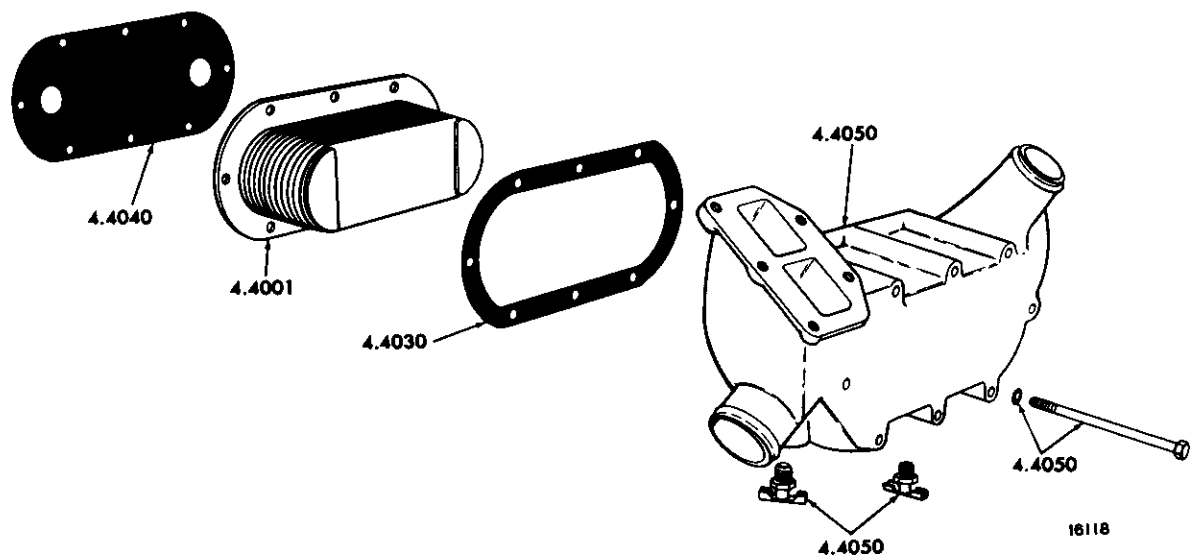


FIG. 4C OIL COOLER

Figs. 4B & 4C of 4.0000

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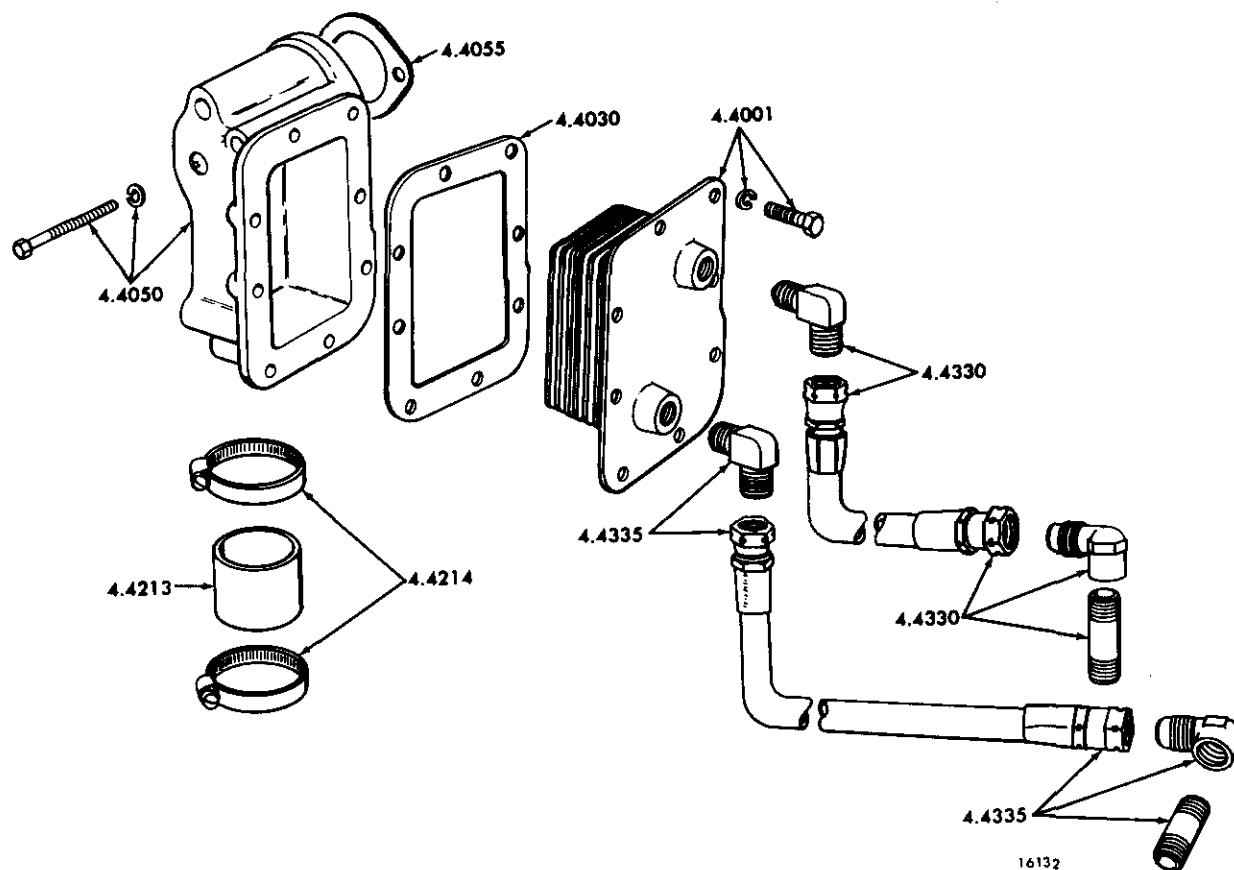


FIG. 4D MARINE GEAR OIL COOLER

Fig. 4D of 4.0000

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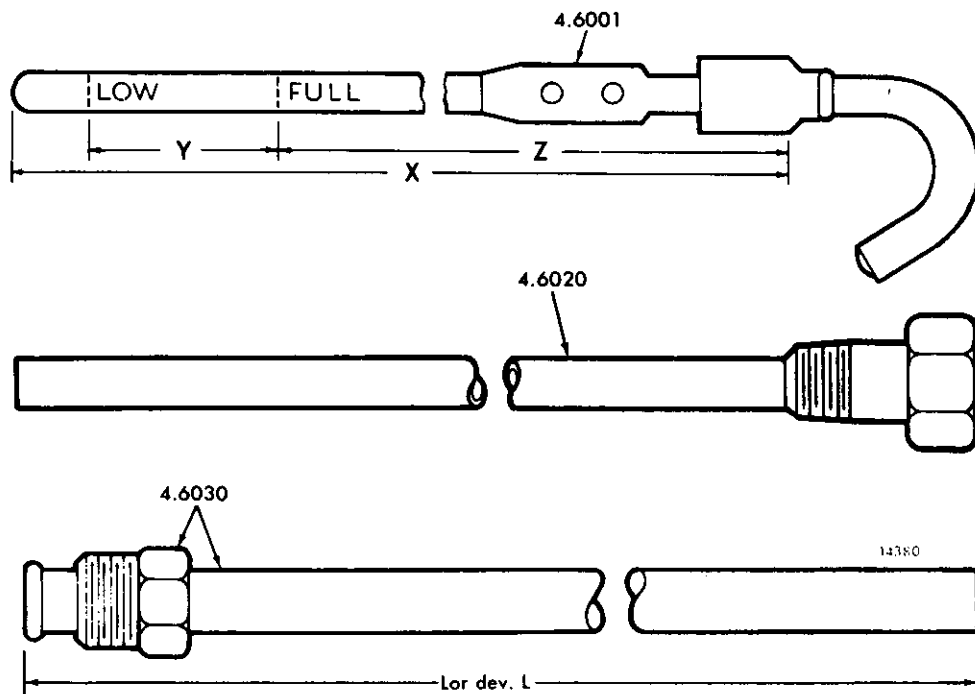


FIG. 6A DIPSTICK

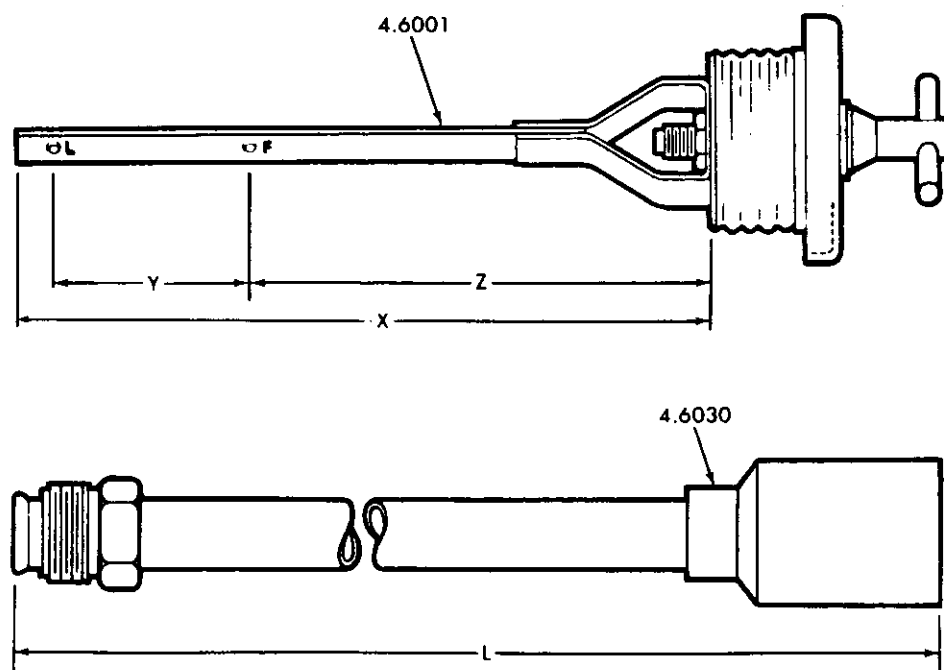


FIG. 6B DIPSTICK

Figs. 6A & 6B of 4.0000

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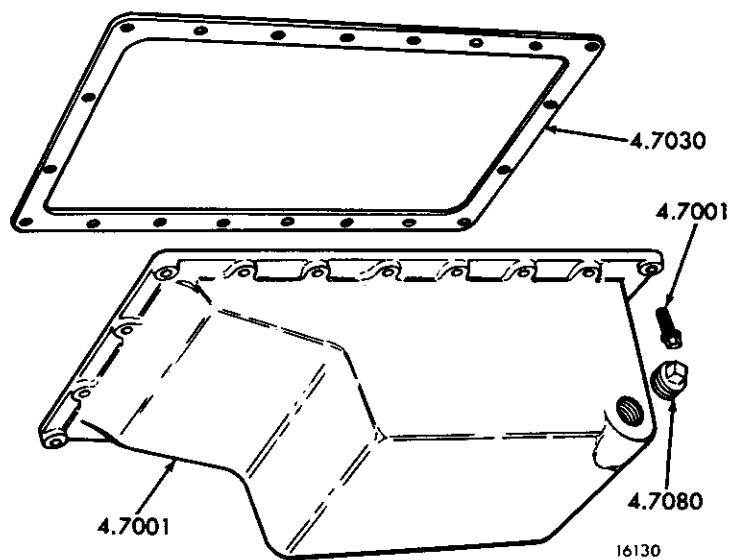


FIG. 7A OIL PAN (CAST)

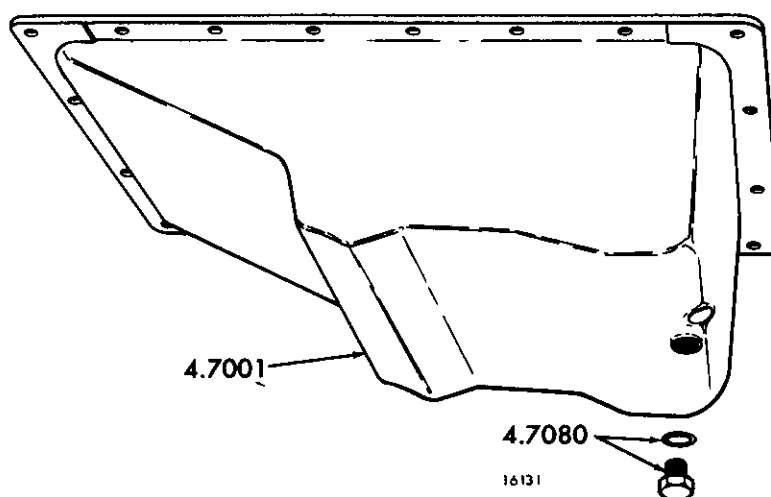


FIG. 7B OIL PAN (STAMPED)

Figs. 7A & 7B of 4.0000

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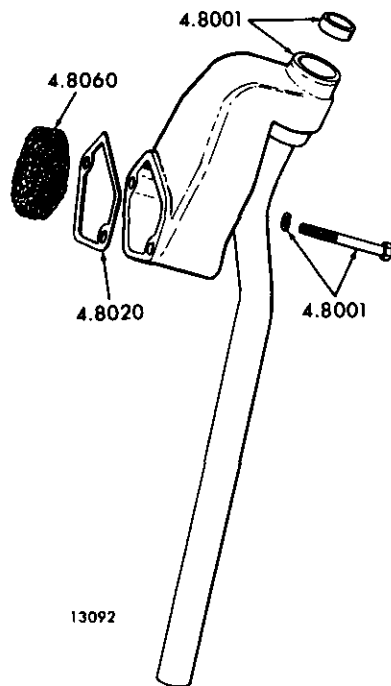


FIG. 8A BREATHER

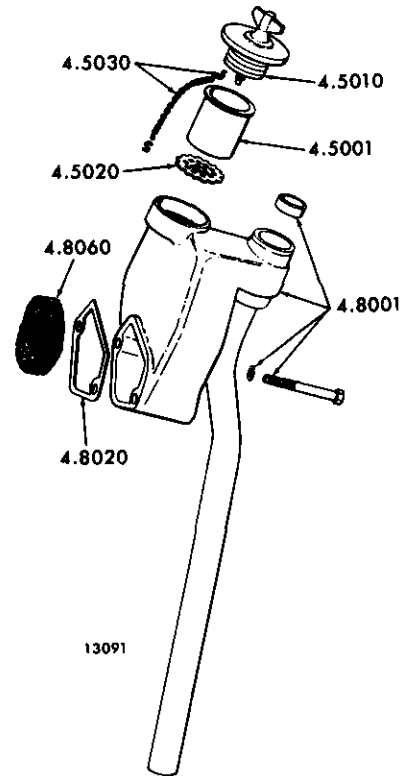


FIG. 8B BREATHER AND OIL FILLER

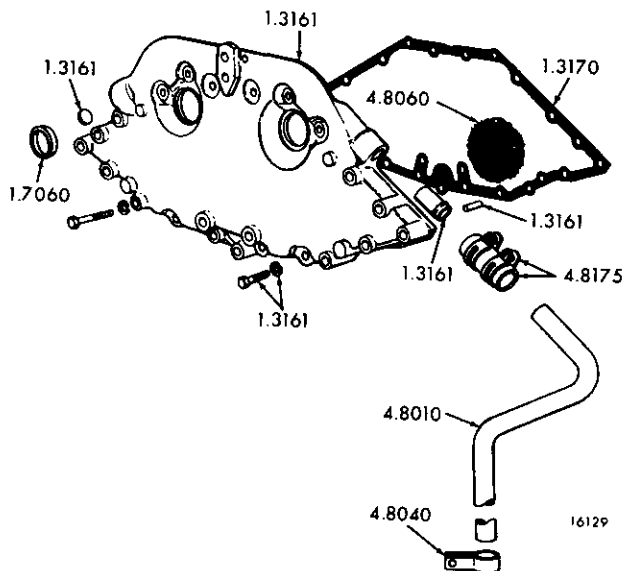


FIG. 8C BREATHER (6V)

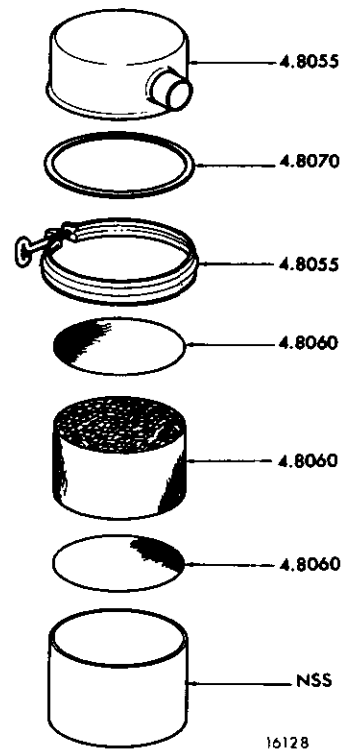


FIG. 8D BREATHER ASSEMBLY

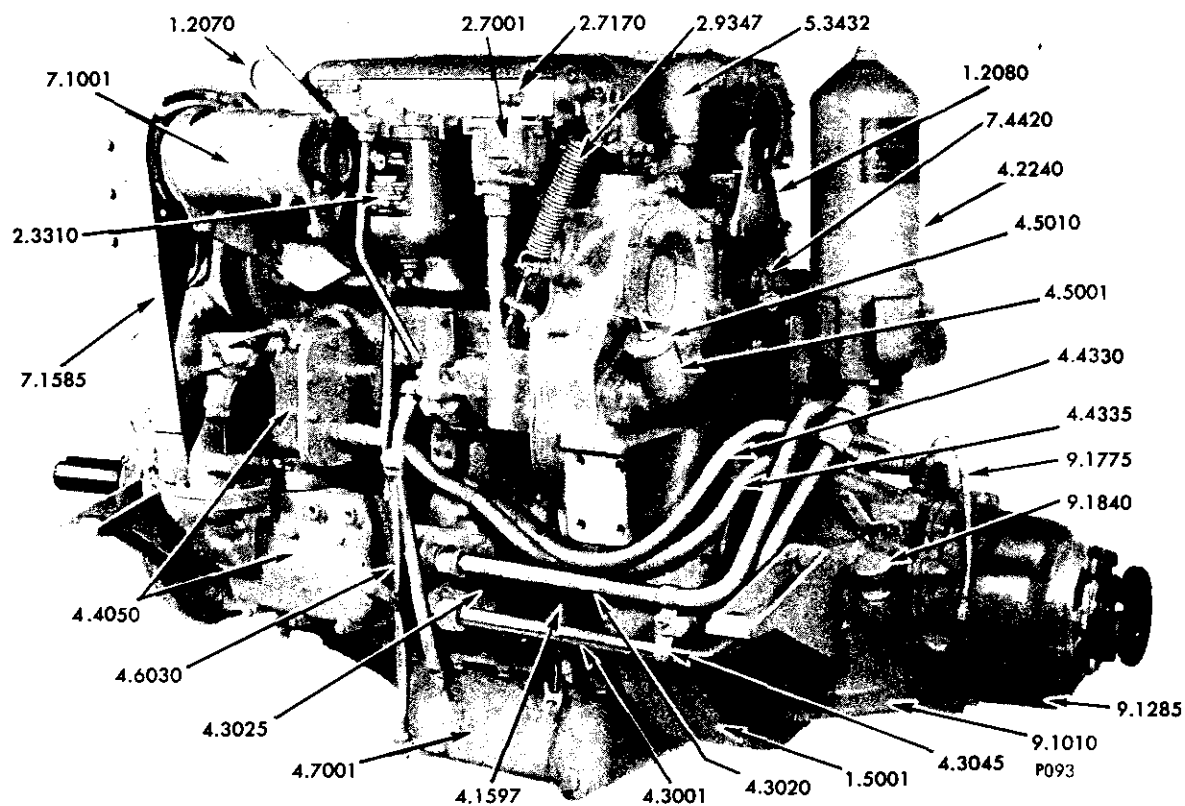


FIG. 10A OIL COOLER AND LINES (In-Line Engine)

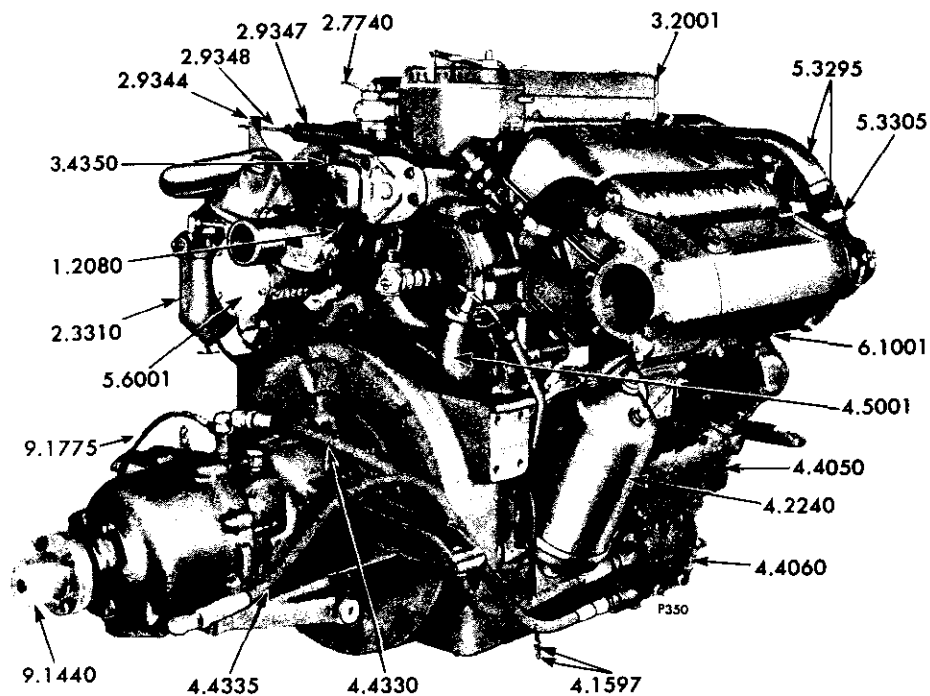


FIG. 10B OIL COOLER AND LINES (V-Engine)

Figs. 10A & 10B of 4.0000

4.1000A OIL PUMP

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	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
4.1001 - 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								
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	4	4	4	11	4
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
	179830	BOLT, 5/16"-18X3" (12.9001)										4		4
	103320	LOCKWASHER, 5/16" (12.9200) % OBSOLETE. # NOT SERVICED; USE BODY ASSY. SHOWN IN PARENTHESES AND INCLUDE (1) 5153260 AND (1) 5153617 DRIVEN GEARS. * INCLUDES (1) 5153154 BUSHING.										4		4

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	

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

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	
		4.1001 - 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				1									
	5103847	PUMP ASSY., 4-53		1												
	5116070	PUMP ASSY., 6V53						1	1	1						
	5116110	PUMP ASSY., 3-53									1	1	1	1		
	5121042	PUMP ASSY., 3 & 4-53													1	
	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		1	1	1	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						
	272429	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												

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									
		4.1001 - PUMP ASSY., OIL															
		A PUMP ASSY. INCLUDES ITEMS IN 4.1040 THRU 4.1220 AND 4.1380.															
5121042		PUMP ASSY., 4-53	1	1	1												
5116070		PUMP ASSY., 6V53				1											
8924710	*	PUMP ASSY., MAIN AND SCAVENGING 6V53					1										
5104714		PUMP ASSY., 6V53						1									
193942		BOLT, 5/16"-18X1 5/8" (12.9001)	6	6	6			6									
179826		BOLT, 5/16"-18X2" (12.9001)				6											
186283		BOLT, 3/8"-16X3 1/2" (12.9001)						2									
272429		BOLT, 3/8"-16X4 1/8" (12.9001)						8									
103341		WASHER, 3/8" (12.9190)						10									
103320		LOCKWASHER, 5/16" (12.9200)				6											
103321		LOCKWASHER, 3/8" (12.9200)						10									
		* NOT SERVICED, USE COMPONENTS.															
		4.1040 - BODY, OIL PUMP															
5104550		BODY						1									
		4.1060 - SPACER, OIL PUMP BODY															
8925145		SPACER					1										
		4.1085 - ROTOR ASSY., OIL PUMP															
5195957		ROTOR ASSY., 4-53	1	1	1												
5195687		ROTOR ASSY., 6V53				1											
5106428		ROTOR ASSY., 6V53						1									
		4.1090 - GEAR, OIL PUMP DRIVE															
8925143		GEAR, MAIN					1										
5103173		GEAR, SCAVENGING					1										
		4.1200 - GEAR, OIL PUMP DRIVEN															
		A GEAR ASSY. INCLUDES BUSHING IN 4.1210.															
5103171		GEAR ASSY., SCAVENGING					1										
8925144		GEAR ASSY., MAIN					1										
		4.1210 - BUSHING, OIL PUMP DRIVEN GEAR															
5103174		BUSHING					2										
		4.1218 - COVER, ENGINE FRONT-LOWER															
		A LOWER COVER ASSY. INCLUDES ITEMS IN 4.1690 THRU 4.1720.															
5197415		COVER ASSY. (1.3162)	1	1	1												
5136274		COVER ASSY. (1.3162)				1											
5138830		COVER ASSY. (1.3162)						1									
8924380		PLUG, 1/8" PIPE (12.9550)	1	1	1												

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

PART

FIG	NUMBER	NAME AND DESCRIPTION
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
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31	31	31
32	32	32
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86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

. TYPES

[illegible]

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. X 11 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 (12.9460)	1							1		1	1	

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	166	169	170	173	174	185	186	187	188	192	194	195
	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		
+ 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	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		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
4.1510 - 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										
2B	5126453	@ ELBOW				1			1	1			1	1
2A	5127175	SEAL RING			1		1	1			1	1		
2B	5126492	SEAL RING				1			1	1			1	1
2B	186618	BOLT, 5/16"-18X5/8" (12.9001)						1	3					
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)			4		4		AR	AR		4	AR	AR
2A	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR									AR	AR
	120376	NUT, 5/16"-18 (12.9140)											2	
		@ 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

PART			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			1	1				1		
2A	5175568	GASKET,2,3,4-53 (4.1672)			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.X11 3/16" L. (5.1003)	1	1							1			
	1508350	CONNECTOR, 1/8" RESTRICTED (7.4074)	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.,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	239	242	246	249	250	252	254	257	258	261	263	275
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	
2B	179789	* BOLT, 1/4"-20X3/8" (12.9001)	2										2	
2B	180016	BOLT, 1/4"-20X1/2" (12.9001)												2

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)		2	2	2	2	2	2	2	2			
* EFFECTIVE WITH 4D-27899.														
4.1597 - TUBE, OIL PRESSURE GAGE-MARINE														
	5118781	HOSE, 3/16" I.D.X11 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			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	280	282	283	285	286	289	290	292	295	296	297	298
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					
2D	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							1	
	120228	BOLT, 5/16"-18X5/8" (12.9001)												
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	2
	120393	WASHER, 5/16" (12.9190)		4				1		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	
	179837	BOLT, 3/8"-16X3/4" (12.9001)			2			2					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
	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	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
		+ OBSOLETE.												

4.1000B OIL DISTRIBUTION SYSTEM

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION												
		280	282	283	285	286	289	290	292	295	296	297	298	
4.1582 - 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

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	300	301	302	303	308	314	319	322	323	324	325	328
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	AR	1	AR	AR		1		AR	AR	1	AR	AR
	5126473	GASKET,6V53												
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	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														
5135177	HOSE ASSY., 3/16" I.D. X 98" L (7.4075)														
1508350	CONNECTOR, 1/8" RESTRICTED (7.4074) 6.8V53														
118748	CONNECTOR, 1/4" TUBE														

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		
	5138859	+ 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

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
4.1512 - SUPPORT, OIL PUMP INLET TUBE (CONT'D)													
5138619	WASHER, 25/64"X3/4"X.83"	4	4	4									4
103320	LOCKWASHER, 5/16" (12.9200)				AR	AR	AR		AR		AR	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							2	2
	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR		AR	AR
	120376	NUT, 5/16"-18 (12.9120)		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 ..FIG .. NUMBER ..	NAME AND DESCRIPTION ..	TYPES										
		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							1				
5132832	GASKET,8V53					AR	AR					
5135877	GASKET,6V53				1							
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					2	2	1	1
180016	BOLT, 1/4"-20X1/2" (12.9001)											
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					

4.1000B OIL DISTRIBUTION SYSTEM

PART		NAME AND DESCRIPTION	TYPES										
FIG	NUMBER		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
		4.1597 - 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

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
4.1510 - 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	2	
	9423000	BOLT, 5/16"-18X3/4" 12 PT HD.								2				
	9421628	BOLT, 5/16"-18X2" SOC. (12.9027)									2		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	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									2			
	8921230	SUPPORT, 4-53								1		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										
	181595	BOLT, 5/16"-24X3/4" (12.9001)									2			
	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
	5138619	WASHER, 25/64"X3/4"X.83"				4	4						4	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

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
		4.1512 - 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	2
	103319	LOCKWASHER, 1/4" (12.9200)	AR	AR	AR								2	
	103320	LOCKWASHER, 5/16" (12.9200)							2	2		2		
	214279	NUT, 5/16"-24 LOCK (12.9120)												
		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

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)													
	8924380	PLUG, 1/8"-22 PIPE (12.9550)											1		

4.1000B OIL DISTRIBUTION SYSTEM

PART		NAME AND DESCRIPTION	TYPES						
FIG	NUMBER		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					1		
	5103056	PIPE ASSY., 6V53						1	
2A	8924709	ELBOW						1	
	8921280	PIPE ASSY., 4-53		1					
	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)			2	2			
	179816	BOLT, 5/16"-18X3/4" (12.9001)		2		2		4	
	179827	BOLT, 5/16"-18X2 1/4" (12.9001)	4				2		4
	120393	WASHER, 5/16" (12.9190)	2	4				4	
	103320	LOCKWASHER, 5/16" (12.9200)	4	4	2	2	2	4	4
4.1512 - SUPPORT, OIL PUMP INLET TUBE									
2D	5138752	SUPPORT (UPPER)			1				
	5138754	SUPPORT (UPPER)			1				
	5138753	SUPPORT (LOWER)			1				
	5146104	SUPPORT (FIGURE 8)				1			
	5138420	SUPPORT, 6V53					4		
	8921230	SUPPORT, 4-53 (4.1510)		1					2
	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			
2A	5126143	SCREEN, 6V53					1		2
	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			
	9409010	BOLT, 5/16"-18X5/8" (12.9001)					2		4
	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.							

4.1000B 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		
		4.1580 - PIPE, OIL PUMP OUTLET									
	5144215	JUNCTION BLOCK, 8V53					1				
	8924707	ELBOW						1			
	5107439	BRACKET					1				
	8924380	PLUG, 1/8" PIPE (12.9550)					2				
	186629	BOLT, 5/16"-18X1" (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)						2			
	103321	LOCKWASHER, 3/8" (12.9200)					2				
	103323	LOCKWASHER, 1/2" (12.9200)					2				
		4.1597 - TUBE, OIL PRESSURE GAGE									
	8923859	HOSE ASSY., #5X13" L. (9.1775)					1	1			
	8923966	HOSE ASSY., #6X10.92" L.					1				
	1508350	CONNECTOR, 1/8" P.T., INT. & EXT. (7.4074)					1	1			
	9432266	CONNECTOR, 1/8" P.T., INV. FL. (12.9460)					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			
2C	8924170	CONNECTOR, 1/4" INV. FL. TUBE (12.9460)		1				1			
2C	8925032	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)		1				1			

4.1000C OIL PRESSURE REGULATOR

PART		NAME AND DESCRIPTION		TYPES									
FIG	NUMBER			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)											
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.											
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							2				
		+ THRU 6D-3857.											
		# EFFECTIVE WITH 6D-3858, THRU 6D-22443, NOT SERVICED; FOR SERVICE REQUIREMENTS, USE 5143021 PLUS (1) 51362 27 PLUG.											
4.1710 - PLUG, OIL PRESSURE REGULATOR													
1A	5113657	+ PLUG		1	2	2		2	2	4			
1A	5109803	PLUG,6V53				1							
1A	5136227	& PLUG,6V53				1	2						
		+ THRU 6D-3857 FOR TYPE 12.											
		& EFFECTIVE WITH 6D-10498.											
4.1720 - GASKET, OIL PRESSURE REGULATOR PLUG													
1A	5177773	GASKET (4.4170)		1	2	2	2	2	2	4			

4.2000A OIL FILTER

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	108	109	111	112	115	116	127	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						
	5124066	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
	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												
	5128488	GASKET,6,8V53 (MOUNTING ADAPTOR) (4.2350)										1		
		4.2350 - GASKET, OIL FILTER ADAPTOR												
3A	5121205	GASKET	1	1				1				1		
3A	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
3A	103321 LOCKWASHER, 3/8" (12.9200)		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

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	1
5573162	% DECAL (4.2280)		1		1	1		1	1		1		
5573199	% DECAL (4.2280)			1						1			
5133279	BUSHING (1/2"X1/4" RED., RESTRICTED) (4.3001)						1						
5111798	PLUG, 1" PIPE (12.9550)							1					
186612	BOLT, 3/8"-16X1 3/8" (12.9001)	4											
186622	BOLT, 3/8"-16X1 1/4" (12.9001)							4					
186282	BOLT, 3/8"-16X3 1/4" (12.9001)								4				
181370	BOLT, 3/8"-24X1 1/4" (12.9001)		3			4						4	
181374	BOLT, 3/8"-24X1 1/2" (12.9001)		1										
186309	BOLT, 3/8"-24X3 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														
3A	5121205	GASKET,3-53	1						1				1	1
3A	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

4.2000A OIL FILTER

PART		NAME AND DESCRIPTION
.FIG	NUMBER	
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)

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 1/2" 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)											
	179838	BOLT, 3/8"-16X7/8" (12.9001)						2					
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)						2		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									
103321		LOCKWASHER, 3/8" (12.9200)						AR		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

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
4.2240 - 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 AR AR			1 AR AR				
128003		BUSHING, 1"X3/4" RED. (12.9570)												
5111798		PLUG, 1" PIPE (12.9550)												
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	
103321		LOCKWASHER, 3/8" (12.9200)		AR	AR		AR	4 AR	4 AR	AR	AR	4 AR	4 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														
3A	5574978	ELEMENT,3-53 (6") (AC TYPE PF-147) (INCLUDES GASKET IN 4.2300)												
3A	5573014	ELEMENT,4-53,6V53	1					1						
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				
3A	5574008	SHELL,3,4-53,6V53 (INCLUDES PLUG)						1						
	5570480	PLUG (2.3050)	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
4.2290 - 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								
	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		
	5137549	GASKET,6,8V53												1
	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				
		* 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

			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
		4.2488 - 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 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

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	258	259	260	268	274	275	279	284	288	291	306
4.2280 - SHELL, OIL FILTER													
3A	5574908	SHELL,3-53 (INCLUDES PLUG)								1			
	5574008	SHELL,3,4-53,6V53 (INCLUDES PLUG)		1				1					
	5570480	PLUG (2.3050)		1				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
		+ 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													
3A	5116427	STUD,3-53								1			
	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)											1
	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							
	103321	LOCKWASHER, 3/8" (12.9200)						AR			AR		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

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)		1				1		1	1	1	1
		+ EARLY ENGINES											
		* LATE ENGINES											
		# NOT SERVICED, USE 160221.											
		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

TYPES

FIG	PART 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							1	
	5573182	% 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						4	
	186628	BOLT, 3/8"-16 X 1 1/2" (12.9001)	4	4			2			2	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	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	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

. TYPES

3 5 6	1	2 4	2	1 1	2 2	6 4	1
3 5 7	1		4		4 4		1
3 5 8	1		4		4		
3 5 9	1		4		4		
3 6 0	1	2					1
3 6 1	1	2 4	2	1 1	2 2	6 4	1
3 6 2	1	2 4 1	2	1	2 2	6 4	1
3 6 3	1	2 4 1	2	1	2 2	6 4	1
3 6 4			4			4	1
3 6 5			4			4	
3 6 6		1		4	4 4		
3 6 7		1		4	4 4		1

4.2000A OIL FILTER

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

4.2000A OIL FILTER

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

4.2000A OIL FILTER

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