

1.4000A FLYWHEEL

PART		TYPES														
FIG	NUMBER	NAME AND DESCRIPTION	807	808	809	843	858	861	862	865	871	944	945	946	947	
1.4001 - FLYWHEEL ASSY.																
INCLUDES GEAR IN 1.4010.																
"C" INDICATES A CHAMFERED ASSY.																
"NC" IS NON-CHAMFERED.																
NPN		FLYWHEEL ASSY. (CUSTOMER FURNISHED)					1									
5A	5147927	FLYWHEEL ASSY. (SAE #3) (NC)	1													
5B	5124627	FLYWHEEL ASSY. (SAE #3) (NC)			1											
5B	5162984	FLYWHEEL ASSY. (SAE #2) (NC)				1										
5A	5102444	FLYWHEEL ASSY. (SAE #2) (NC)						1								
5A	5102486	+ FLYWHEEL ASSY. (SAE #2) (NC)							1							
5A	5102308	FLYWHEEL ASSY. (SAE #3) (NC)								1						
5A	5102920	FLYWHEEL ASSY. (SAE #3) (NC)									1					
5A	5102011	FLYWHEEL ASSY. (SAE #4) (NC)										1				
5B	5133512	FLYWHEEL ASSY. (SAE #3) (NC)											1			
5A	5103818	FLYWHEEL ASSY. (SAE #3) (NC)												1		
5B	5104456	FLYWHEEL ASSY. (SAE #2) (NC)													1	
5A,B	5148093	FLYWHEEL ASSY. (SAE #2) (NC)		1												
5A	5105297	FLYWHEEL ASSY. (SAE #3) (NC)														
	5126671	PLATE, SCUFF (BOLT RETAINER)		1	1	1	1	1	1	1	1	1	1	1	1	
	456390	PIN, ROLL (.75" L)	1													
5A	9412018	BOLT, LOCK (2 1/4" L)	6	6			6	6	6		6	6		6	6	
	9409512	BOLT, 1/2"-20X2" AA LOCK			6	6				6						
	9409129	BOLT, LOCK 1/2"-20X1 3/4" (12.9001)											6			
	5111467	WASHER (1.8360)	6													
		+ OBSOLETE.														
1.4010 - GEAR, FLYWHEEL RING																
5A	5116301	GEAR (SAE #3 - 126 TEETH)	1		1					1	1		1	1		
5A	5116302	GEAR (SAE #2 - 138 TEETH)		1		1		1	1						1	
	5116289	GEAR (SAE #4-111 TEETH)										1				
1.4040 - BEARING, CLUTCH PILOT																
5A	907302	BEARING (N.D. Z99605X1978)				1										
1.4072 - PLATE,FLYWHEEL INPUT DRIVE																
	5148011	PLATE		1												
	5148012	ADAPTOR		1												
	9409131	BOLT, 3/8"—24 X 3/4" (12.9001)		6												
	6836873	* PACKAGE (6 PCS.) 3/8"—24 HEX. CONE LOCKNUT (9.4002)				1										
		* SHOWN IN TYPE 808 FOR REFERENCE ONLY. PART OF TRANSMISSION ASSEMBLIES IN 9.4001.														
1.4075 - DISC, FLYWHEEL FLEXIBLE COUPLING																
	5102584	DISC ASSY.												1		
	8927580	BOLT, 3/8"-16X1.015" LOCK (12.9001)												8		

1.4000A FLYWHEEL

PART			TYPES									
FIG	NUMBER	NAME AND DESCRIPTION	9	1	1	1	1	1	1	1	1	1
			9	0	0	0	0	0	0	0	0	0
			2	5	8	9	9	8	9	8	2	
1.4001 - FLYWHEEL ASSY.												
INCLUDES GEAR IN 1.4010.												
"C" INDICATES A CHAMFERED ASSY.,												
"NC" IS NON-CHAMFERED.												
A	8921740	FLYWHEEL ASSY. (SAE #2) (C)	1									
A	8922607	FLYWHEEL ASSY. (SAE #3) (NC)		1								
A	8923208	FLYWHEEL ASSY. (SAE #3) (NC)			1							
B	5137449	FLYWHEEL ASSY. (SAE #1) (NC)				1						
A	8924053	FLYWHEEL ASSY. (SAE #3) (NC)					1					
	8922974	FLYWHEEL ASSY. (SAE #3) (NC)						1				
	8925278	FLYWHEEL ASSY. (SAE #3) (NC)							1			
	23502311	FLYWHEEL ASSY. (SAE #3) (NC)								1		
	5126671	PLATE, SCUFF (BOLT RETAINER)	1	1	1	1	1	1	1	1		
	9409129	BOLT, 1/2"-20X1 3/4" AA LOCK (12.9001)						6		6		
A	9409512	BOLT, 1/2"-20X2" AA LOCK		6			6					
A	9412018	BOLT, 1/2"-20X2 1/4" AA LOCK	6		6	6			6			
1.4010 - GEAR, FLYWHEEL RING												
	5116301	GEAR (SAE #3-126 TEETH)		1	1		1	1	1	1		
	5116302	GEAR (SAE #1-138 TEETH)	1			1						
1.4040 - BEARING, CLUTCH PILOT												
	907084	BEARING (N.D. Z99507L1C) (8.1450)				1						
1.4055 - CARRIER, FLYWHEEL PILOT BEARING												
	8923091	CARRIER				1						
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)				6						
	103321	LOCKWASHER, 3/8" (12.9200)				6						
1.4080 - HUB, FLYWHEEL FLEXIBLE COUPLING												
	23046150	HUB, ADAPTOR									1	
	6882685	ADAPTOR (1.5130)									1	
	190149	BOLT, 3/8"-24X7/8" HEX SOC. HD. (12.9027)									12	
	9423490	BOLT, 3/8"-16X2" (12.9001)									12	
	9419871	LOCKWASHER, 3/8" (12.9200)									12	
1.4085 - PLATE, FLYWHEEL FLEXIBLE COUPLING												
	23046149	FLEXPLATE ASSY.									1	
	23046151	PLATE, SCUFF									1	
	23046427	BOLT, 1/2"-20X1 5/8" 12 PT. HD. (12.9005)									6	
	9409056	BOLT, 1/2"-20X3/4" (12.9001)									6	

1.5000A FLYWHEEL, HOUSING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 7 5	1 7 7	1 7 8	1 8 1	1 8 3	1 8 5	1 8 6	1 9 3	1 9 5	1 9 6	1 9 8	1 9 9
1.5001 - HOUSING ASSY., FLYWHEEL														
5A	5119355	@ HOUSING, (SAE #2) 2,3,4-53 (TYPE 357)		1										
5A	5119356	@ HOUSING (SAE #2) 2,3,4-53 (TYPE 360)									1		1	
5A	5119353	@ HOUSING, (SAE #3) 2,3,4-53 (TYPE 345)	1											
5A	5119354	@ HOUSING, (SAE #3) 2,3,4-53 (TYPE 344)					1							1
5A	5119351	# HOUSING, (SAE #4) 4-53			1									
5A	5119352	# HOUSING, (SAE #4) 3,4-53						1						
5A	5116060	@ HOUSING, (SAE #4) 2,3,4-53 (TYPE 330)								1				
5A	5124207	@ HOUSING, (SAE #4) 2,3,4-53 (TYPE 333)											1	
5A	5119430	@ HOUSING, (SAE #4) 2,3,4-53 (TYPE 342)							1					
10C	5121179	* HOUSING, 2-53				1								
	5124266	STUD (1/2"-13-20X2.8")				4								
5A,B	5145014	PLUG, 3/8" PIPE (12.9550)	1											1
5A,B	5115214	PLUG, 1/2 PIPE (12.9550)		1				1	1	1	1	1		
	9409126	& BOLT, 5/16-18X2 1/2 (12.9001)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	9409079	BOLT, 3/8-16X7/8 (12.9001)	1	1	1	1	1	1	1	1	1	1	1	1
	5101779	BOLT, 3/8"-16X7/8" (12.9001)						1						
	179838	+ BOLT, 3/8-16X7/8 (12.9001)	7	AR	5	5	5	5	5	5	AR	AR	5	5
	9414215	% BOLT, 3/8-16X2 1/2 (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
5A,B	427588	BOLT, 3/8-16X2 1/2 (12.9001)	6	6	6		6	6	6	6	6	6	6	6
5A,B	179850	BOLT, 3/8-16X2 3/4 (12.9001)				6								
	5170491	BOLT, 3/8-24X2 21/32 LOCK (12.9001)				3								
5A,B	5170489	BOLT, 3/8-24X3 9/16 LOCK (12.9001)	3	3	3		3	3	3	3	3	3	3	3
5A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
@ NOT SERVICED, CONVERT TO TYPE SHOWN IN PARENTHESES.														
# REQUIRES SPACER AND BOLT IN 1.7260.														
& QUANTITY OF 6 REQUIRED WITH 2D-902, 3D-010, 4D-102. QUANTITY OF 2 REQUIRED EFFECTIVE WITH 2D-903, 3D-011, 4D-103.														
+ USE A QUANTITY OF "5" FOR A TWO, "5" FOR A THREE AND "7" FOR A FOUR.														
% EFFECTIVE WITH 2D-903, 3D-011, 4D-103.														
* OBSOLETE														
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
5123802	= SHIM					1		1						
	= EFFECTIVE WITH UNIT 2D-465 FOR TYPE 181.													

1.5000A FLYWHEEL HOUSING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 7 5	1 7 7	1 7 8	1 8 1	1 8 3	1 8 5	1 8 6	1 9 3	1 9 5	1 9 6	1 9 8	1 9 9
		1.5010 - GASKET, FLYWHEEL HOUSING												
A,B	5121334	GASKET, 2,3,4-53	1	1	1		1	1	1	1	1	1	1	1
	5121234	GASKET, 2-53				1								
		1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE												
A,B	5122281	COVER (PLAIN)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8	8	8	8	8	8	8
		1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER												
A,B	5104506	GASKET	2	2	2		2	2	2	2	2	2	2	2
		1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE												
A,B	5116411	COVER	2	2	2		2	2	2	2	2	2	2	2
A,B	5155815	COVER (TACHOMETER HOLE) (1.7490)				1								
A,B	9419648	SCREW, 5/16"-18X3/4" SELF-TAP (12.9066)				2								
A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	4	4	4		4	4	4	4	4	4	4	4
A,B	103320	LOCKWASHER, 5/16" (12.9200)	4	4	4	2	4	4	4	4	4	4	4	4
		1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER												
A,B	5116391	GASKET	2	2	2		2	2	2	2	2	2	2	2
A,B	5135935	GASKET (7.4455)				1								
		1.5075 - GASKET, STARTING MOTOR HOLE COVER												
A,B	5130995	GASKET (7.3004)	AR	AR	AR		AR	AR	AR	AR	AR	AR	AR	AR
		1.5096 - HOSE, FLYWHEEL HOUSING DRAIN												
	5124238	* HOSE, 3/8" I.D. X 14" L. (1.1060)					1							
	5113689	* HOSE, 3/8" I.D. X 12" L.								1			1	
	5120998	ELBOW, HOSE CONNECTOR 90 DEG. (1.1100)								1			1	
	8924158	BUSHING, RED. (1/2"X3/8") (12.9570)					1			1			1	
		* STD. LENGTH HOSE. CUT TO LENGTH SHOWN.												

DETROIT DIESEL

53 MPC ENGINES

1.5000A FLYWHEEL, HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	201	202	203	204	205	207	208	209	211	212	213	216
1.5001 - HOUSING ASSY., FLYWHEEL														
5A	5125268	* HOUSING, (SAE #2)4-53 (USE TYPE 359)	1											
5A	5125269	* HOUSING, (SAE #2) 2,3,4-53 (USE TYPE 312)					1							
5B	5123717	* HOUSING, (SAE #2)6V53(USE TYPE 361)									1			
5B	5123718	* HOUSING, (SAE #2)6V53(USE TYPE 340)										1		
5A	5119431	* HOUSING, (SAE #3)4-53(USE TYPE 349)		1										
5A	5124965	@ HOUSING, (SAE #3) 3-53				1								
5A	5116062	* HOUSING, (SAE #3) 2,3,4-53 (USE TYPE 328)						1						
5B	5123719	# HOUSING, (SAE #3) 6V53							1					
5A	5126541	* HOUSING, (SAE #3)4-53(USE TYPE 388)											1	
5A	5116060	* HOUSING, (SAE #4) 2,3,4-53 (USE TYPE 330)			1					1				
	5125652	HOUSING, (AUTOMOTIVE) 3,4-53												1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)							1		1	1		
5A,B	5145014	PLUG, 3/8" PIPE (12.9550)		1		1							1	
5A,B	5115214	PLUG, 1/2" PIPE (12.9550)			1		1	1	1	1	1	1		
	9409126	& BOLT, 5/16"-18X2 1/2" (12.9001)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	9409079	BOLT, 3/8"-16X7/8" (12.9001)	1	1	1	1	1	1	1	1	1	1	1	1
	179838	% BOLT, 3/8"-16X7/8" (12.9001)	AR	AR	AR	AR	AR	AR		AR			AR	AR
	9414215	+ BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
5A,B	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	6	6	6	6	6	6	8	6	8	8	6	
5A,B	179850	BOLT, 3/8"-16X2 3/4" (12.9001)									2	2		
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)							6		6	6		
	5170491	BOLT, 3/8"-24X2 21/32" LOCK (12.9001)												3
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)							2		2	2		
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)							2		2	2		
5A,B	5170489	BOLT, 3/8"-24X3 9/16" LOCK (12.9001)	3	3	3	3	3	3		3			3	
5A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	117049	NUT, 3/8"-24 (12.9120)							2		2	2		
		* NOT SERVICED, CONVERT TO TYPE SHOWN IN PARENTHESES.												
		@ NOT SERVICED, REPLACE WITH 5132259 AND INCLUDE 1-5123803 SHIM.												
		# REQUIRES SPACER AND BOLT IN 1.7260.												
		& QUANTITY OF "6" REQUIRED WITH 2D-902, 3D-010, 4D-102. QUANTITY OF "2" REQUIRED EFFECTIVE WITH 2D-903, 3D-011, 4D-103.												
		% USE "5" FOR A TWO, "5" FOR A THREE, AND "7" FOR A FOUR.												
		+ EFFECTIVE WITH 2D-903, 3D-011, 4D-103.												
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
	5123802	SHIM							1					1

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	201	202	203	204	205	207	208	209	211	212	213	216
1.5010 - GASKET, FLYWHEEL HOUSING														
A,B	5121334	GASKET, 2,3,4-53	1	1	1	1	1	1		1			1	1
A,B	5137470	GASKET, 6V53							1		1	1		
	5175882	GASKET, (7/8" DIA.) 6,8V53(4.4115)							1		1	1		
1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE														
A,B	5122281	COVER (PLAIN)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8	8	8	8	8	8	8
1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER														
A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2	2
1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE														
A,B	5116411	COVER	2	2	2	2	2	2	1	2			2	
A,B	5155815	COVER (TACHOMETER HOLE) (1.7490)												1
A,B	5152716	* COVER (3.4223)							2		2	2		
A,B	5130992	@ PLUG, CUP (3.4223)							AR		AR	AR		
A,B	9419648	SCREW, 5/16"-18X3/4" SELF-TAP (12.9066)												2
A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	4	4	4	4	4	4	6	4	6	6	4	2
A,B	446202	WASHER, 5/16" COPPER (12.9190)												
A,B	103320	LOCKWASHER, 5/16" (12.9200)	4	4	4	4	4	4	6	4	6	6	4	2
* QUANTITY OF ONE FOR MARINE UNITS.														
@ NOT SERVICED, REPLACE WITH COVER, GASKETS AND BOLTS.														
1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER														
A,B	5116391	GASKET	2	2	2	2	2	2	1	2			2	
A,B	5135935	GASKET (7.4455)												1
A,B	5150193	* GASKET (5.1010)							2		2	2		
* QUANTITY OF ONE FOR MARINE UNITS.														
1.5075 - GASKET, STARTING MOTOR HOLE COVER														
A,B	5130995	GASKET (7.3004)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

1.5000A FLYWHEEL, HOUSING

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	201	202	203	204	205	207	208	209	211	212	213	216
	1.5080	COVER, FLYWHEEL HOUSING INSPECTION HOLE												
	5125233	COVER				2								
	181309	BOLT, 1/4"-28X1/2" (12.9001)				4								
	103319	LOCKWASHER, 1/4" (12.9200)				4								

1.5000A FLYWHEEL, HOUSING

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

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	2 2 7	2 3 7	2 3 8	2 4 1	2 4 5	2 4 6	2 5 2	2 5 3	2 5 4	2 6 3	2 6 4	2 6 7
1.5001 - HOUSING ASSY., FLYWHEEL														
	5123720	* HOUSING, (SAE #3) 6V53 (TYPE 350)	1											
	5108391	* HOUSING, (SAE #3) 3,4-53 (TYPE 375)		1										
	5121460	@ HOUSING, (SAE #1) 6V53 (5132249)			1									
	5108946	* HOUSING, (SAE #1) 6V53 (TYPE 363)				1								
	5111760	# HOUSING, (SAE #2) 3,4-53					1							
	5108802	* HOUSING, (SAE #2) 6V53 (TYPE 393)						1						
	5109102	* HOUSING, (SAE #2) 6V53 (TYPE 358)							1					
	5111706	# HOUSING, (AUTOMOTIVE) 4-53								1				
	5173777	* HOUSING, (SAE #3) 6V53 (TYPE 337)									1			
	5130646	* HOUSING, (SAE #3) 3,4-53 (TYPE 348)										1		
	5130727	* HOUSING, (SAE #3) 3,4-53 (TYPE 343)											1	
	5173789	* HOUSING (SAE #3) 4-53 (TYPE 351)												1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)	1		1	1		1	1		1			
A,B	5145014	PLUG, 3/8" PIPE (12.9550)		1								1	1	1
A,B	5115214	PLUG, 1/2" PIPE (12.9550)	1		1	1			1		1			
A,B	5111798	PLUG, 1" SQ. SKT. (12.9550)											1	
A,B	5146646	PLUG, 1 1/4" PIPE (12.9550)							1					
A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2		2	2	2	2	2	2	2
	179838	& BOLT, 3/8"-16X7/8" (12.9001)		AR			AR			AR		AR	AR	AR
	9409079	BOLT, 3/8"-16X7/8" (12.9001)		1								1	1	1
A,B	9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
A,B	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	8	6	8	8	6	8	8	4	8	6	6	6
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)	2		2	2		2	2	6	2			
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)	6		6	6		6	6		6		6	
	5170491	BOLT, 3/8"-24X2 21/32" LOCK (12.9001)								3				
	5170492	BOLT, 3/8"-24X2 29/32" LOCK (12.9001)					3							
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)	2		2	2		2	2		2			
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)	2		2	2		2	2		2			
	5170489	BOLT, 3/8"-24X3 9/16" LOCK (12.9001)		3								3	3	3
A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	117049	NUT, 3/8"-24 (12.9120)	2		2	2		2	2		2			
		* NOT SERVICED; CONVERT TO TYPE SHOWN IN PARENTHESES.												
		@ NOT SERVICED; USE PART NUMBER IN PARENTHESES PLUS (1) 5123802 SHIM.												
		# OBSOLETE.												
		& USE "5" FOR A THREE AND "7" FOR A FOUR.												
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
	5123802	SHIM					1			1				
1.5010 - GASKET, FLYWHEEL HOUSING														
B	5137470	GASKET, 6V53	1		1	1		1	1		1			
	5175882	GASKET (7/8" DIA.) 6,8V53 (4.4115)	1		1	1		1	1		1			
B	5121334	GASKET, 2,3,4-53		1			1					1	1	1

1.5000A FLYWHEEL HOUSING

PART			TYPES											
..FIG	NUMBER	NAME AND DESCRIPTION	2 2 7	2 3 7	2 3 8	2 4 1	2 4 5	2 4 6	2 5 2	2 5 3	2 5 4	2 6 3	2 6 4	2 6 7
		1.5010 - GASKET, FLYWHEEL HOUSING (CONT'D)												
5A,B	5109650	GASKET, 4-53								1				
		1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE												
5A,B	5122281	COVER	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
5A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8	8	8	8	8	8	8
		1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER												
5A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2	2
		1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE												
5A,B	5152716	COVER (3.4223)	2					2	2		2			
5A,B	5116411	COVER		2								2	2	2
5A,B	5155815	COVER (TACHOMETER HOLE) (1.7490)								1				
5A,B	5130992	* PLUG, CUP (3.4223)	AR						AR		AR			
5A,B	9419648	SCREW, 5/16"-18X3/4" (12.9066)							2					
5A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	6	4				6	6		6	4	4	4
5A,B	103320	LOCKWASHER, 5/16" (12.9200)	6	AR				6	6	1	6	AR	4	AR
		* NOT SERVICED, REPLACE WITH COVER, GASKET AND BOLTS.												
		1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER												
5A,B	5150193	GASKET (6.1010)	2					2	2		2			
5A,B	5116391	GASKET		2								2	2	2
5A,B	5135935	GASKET (7.4455)								1				
		1.5075 - GASKET, STARTING MOTOR HOLE COVER												
5A,B	5130995	GASKET (7.3004)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE												
	5125233	COVER		2										
	5108939	COVER				2					2	2		2
	181309	BOLT, 1/4"-28X1/2" (12.9001)		4		4					4	4		4

1.5000A FLYWHEEL HOUSING

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION												
		2 2 7	2 3 7	2 3 8	2 4 1	2 4 5	2 4 6	2 5 2	2 5 3	2 5 4	2 6 3	2 6 4	2 6 7	
	1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE (CONT'D)													
	103319 LOCKWASHER, 1/4" (12.9200)		4		4						4	4		4

1.5000A FLYWHEEL HOUSING

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	2 8 0	2 8 1	2 8 8	2 9 0	3 0 1	3 0 3	3 0 6	3 1 0	3 1 1	3 1 2	3 1 4
1.5001 - HOUSING ASSY., FLYWHEEL													
5A	5132014	* HOUSING, (SAE #3) 4-53 TYPE 380	1										
5A	5119353	* HOUSING, (SAE #3) 4-53 TYPE 345		1									
5A	5132554	@ HOUSING, (SAE #3) 4-53 (5132579)			1								
5A	5121460	@ HOUSING, (SAE #1) 6V53 (5132249)				1							
5A	5132965	HOUSING, (SAE #3) 3,4-53					1						
5A	5133141	* HOUSING, (SAE #2) 4-53 TYPE 357						1					
5A	5133471	HOUSING, (SAE #3) 4-53							1				
5B	5123720	* HOUSING, (SAE #3) 6V53 TYPE 350								1			
5A	5119352	# HOUSING, (SAE #4) 3-53									1		
5A	5132256	HOUSING, (SAE #2) 2,3,4-53										1	
5B	5132252	HOUSING, (SAE #3) 6V53											1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)				1				1			1
5A,B	5145014	PLUG, 3/8" PIPE (12.9550)	1	1	1		1		1				
5A,B	5115214	PLUG, 1/2" PIPE (12.9550)				1		1		1	1	1	1
5A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2	2	2	2	2	2	2	2
	179838	BOLT, 3/8"-16X7/8" (12.9001)	AR	AR	AR		AR	AR	AR		AR	AR	
	5101779	BOLT, 3/8"-16X7/8" (12.9001)										1	
	9409079	BOLT, 3/8"-16X7/8" (12.9001)	1	1	1		1	1	1		1		
5A,B	9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4
5A,B	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	6	6	6	8	6	6	6	8	6	6	8
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)				2				2			2
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)				6				6			6
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)				2				2			2
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)				2				2			2
	5170489	BOLT, 3/8"-24X3 9/16" LOCK (12.9001)											
5A,B	103321	LOCKWASHER, 3/8" (12.9200)	3	3	3	3	3	3	3		3	3	
	117049	NUT, 3/8"-24 (12.9120)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
* NOT SERVICED; CONVERT TO TYPE SHOWN IN PARENTHESES.						2				2			
@ NOT SERVICED; USE PART NUMBER IN PARENTHESES PLUS 1-5123802 SHIM.													
# REQUIRES SPACER AND BOLT IN 1.7260.													
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE													
	5123802	SHIM							1			1	1
1.5010 - GASKET, FLYWHEEL HOUSING													
5A,B	5137470	GASKET, 6V53				1				1			1
	5175882	GASKET (7/8" DIA.) 6,8V53 (4.4115)				1				1			1
5A,B	5121334	GASKET, 2,3,4-53	1	1	1		1	1	1		1	1	
1.5020 - GASKET, FLYWHEEL HOUSING BELL													
	5127184	GASKET, 4,6V53		1						1			1
	5108426	GASKET, 6V53 (1.5135)				1							
	5133899	GASKET, 3-53									1		

1.5000A FLYWHEEL HOUSING

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	2 8 0	2 8 1	2 8 8	2 9 0	3 0 1	3 0 3	3 0 6	3 1 0	3 1 1	3 1 2	3 1 4
		1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE											
A,B	5122281	COVER	2	2	2	2	2	2	2	2	2	2	2
A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2
A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8
A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2
A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8	8	8	8	8	8
		1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER											
A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2
		1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE											
A,B	5116411	COVER	2	2	2		2	2	2		2	2	
A,B	5130992	* PLUG, CUP (3.4223)				AR				AR			AR
A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	4	4	4		4	4	4		4	4	
A,B	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR		AR	AR	AR		4	AR	
		* NOT SERVICED, REPLACE WITH COVER, GASKET AND BOLTS.											
		1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER											
A,B	5116391	GASKET	2	2	2		2	2	2		2	2	
		1.5075 - GASKET, STARTING MOTOR HOLE COVER											
A,B	5130995	GASKET (7.3004)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE											
	5125233	COVER	2										
	181309	BOLT, 1/4"-28X1/2" (12.9001)	4										
	103319	LOCKWASHER, 1/4" (12.9200)	4										

1.5000A FLYWHEEL, HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 1 5	3 1 7	3 2 1	3 2 2	3 2 5	3 2 6	3 2 7	3 2 8	3 3 0	3 3 1	3 3 3	3 3 4
1.5001 - HOUSING ASSY., FLYWHEEL														
5B	5135608	HOUSING, (SAE #2) 8V53	1											
5A	5135024	* HOUSING, (SAE #2) 6V53 (TYPE 327)		1										
5A	5119355	* HOUSING, (SAE #2) 4-53 (TYPE 357)			1									
5B	5132282	HOUSING, (SAE #2) 6V53				1								
5B	5101505	HOUSING, (SAE #3) 6V53 (ALUM.)					1	1						
5B	5134099	HOUSING, (SAE #2) 6V53							1					
5A	5132258	HOUSING, (SAE #3) 2,3,4-53								1				
5A	5132263	HOUSING, (SAE #4) 2,3,4-53									1			
5B	5132249	HOUSING, (SAE #1) 6V53										1		
5A	5132265	HOUSING, (SAE #4) 2,3,4-53											1	
5B	5135787	HOUSING, (SAE #2) 8V53												1
	444044	ELBOW, 1/2"-90 DEG. STREET (12.9590)												
	108686	ELBOW, 1/2"-90 DEG. STREET (12.9590)										1		
	452696	INSERT, HELICOIL 3/8"-16X3/4" (12.9118)										1		
	452736	INSERT, HELICOIL 1/2"-14X3/4" (12.9118)					10	10						
	5123802	SHIM, IDLER PAD (1.5002)					4	4						
	5164294	SPACER, 1/8" (7.1581)					1	1						
5A,B	5145014	PLUG, 3/8" PIPE (12.9550)					2							
	5115214	PLUG, 1/2" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1	1	1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)		1	1	1	1	1	1			1		
5A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	179838	BOLT, 3/8"-16X7/8" (12.9001)			5					5	5	5		
	9409079	BOLT, 3/8"-16X7/8" LOCK (12.9001)			1					1				
5A,B	5101779	BOLT, 3/8"-16X7/8" (12.9001)									1	1		
	9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)		8	6		8	8	8	6	6	8		
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)	8	2		2		8	2			2		8
	9409071	BOLT, 3/8"-16X2 3/4" (12.9001)						4						
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)	3	3										3
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)	6	6		6	8		6			6		6
	272473	BOLT, 3/8"-16X3 7/8" (12.9001)						1						
	455537	BOLT, 3/8"-16X4" (12.9001)	2	1			1	7						2
	192884	BOLT, 3/8"-16X6 3/4" (12.9001)	2											2
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)	2	2		2	2	2	2			2		2
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)	2	2		2	2	2	2			2		2
	5170489	BOLT, 3/8"-24X3 9/16" LOCK (12.9001)			3					3	3		3	
	9425364	BOLT, 3/8"-24X4 1/2" (12.9001)						1						
	103341	WASHER, 3/8" (12.9490)	1	25			25	25						1
	120393	WASHER, 5/16" PLAIN CAD. (12.9190)					2	2						
5A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	102635	NUT, 3/8"-16 (12.9120)					1							
	117049	NUT, 3/8"-24 (12.9120)	2	2		2	2	2	2			2		2
* NOT SERVICED; CONVERT TO TYPE SHOWN IN PARENTHESES.														

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 1 5	3 1 7	3 2 1	3 2 2	3 2 5	3 2 6	3 2 7	3 2 8	3 3 0	3 3 1	3 3 3	3 3 4
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
	5123802	SHIM	1			1			1	1	1		1	
1.5004 - SEAL, CRANKSHAFT OIL SEAL - REAR														
	5116229	SEAL (1.3060)					1							
1.5010 - GASKET, FLYWHEEL HOUSING														
A,B	5132947	GASKET, 8V53	1											1
	5175882	GASKET, (7/8" DIA.) 6,8V53 (4.4115)			1	1	1	1	1			1		1
A,B	5137470	GASKET, 6V53		1		1	1	1	1			1		
A,B	5121334	GASKET, 2,3,4-53			1					1	1		1	
1.5020 - GASKET, FLYWHEEL HOUSING BELL														
	5134188	GASKET, 6,8V53				1	1							
	5108426	GASKET, 6V53 (1.5135)										1		
1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE														
A,B	5122281	COVER	2	2	2	2	2	2	2	2	2	2	2	2
A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	2
	5125108	WASHER, 7/16"X3/4" (2.4030)					2							
	106264	WASHER, 1/2" BRASS (12.9190)	8											
A,B	103323	LOCKWASHER, 1/2" (12.9200)		8	8	8	8	8	8	8	8	8	8	8
1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER														
A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2	2
1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE														
	5133210	COVER (BLOWER DRIVE HOLE)	1											1
A,B	5152716	COVER (3.4223)	AR	AR		AR	AR	AR	AR			AR		AR
A,B	5116411	* COVER			AR					AR	AR		AR	
	5130992	@ PLUG, CUP (3.4223)	AR	AR		AR	AR		AR		AR	AR	AR	AR
A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	AR	AR	2	AR	AR	AR	6	AR	AR	AR	2	AR
	179823	BOLT, 5/16"-18X1 5/8" (12.9001)	4											4
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)	1											1
	103341	WASHER, 3/8" (12.9190)	1											1
A,B	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
* USE "2" FOR A TWO, "2" FOR A THREE, AND "1" FOR A FOUR.														
@ NOT SERVICED; REPLACE WITH (1) 5152716 COVER, (3) 186625 BOLTS, (3) 103320 LOCK WASHERS, (1) 5150193 GASK ET.														

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	315	317	321	322	325	326	327	328	330	331	333	334
	1.5060	GASKET, FLYWHEEL HOUSING SMALL HOLE COVER												
	5133082	GASKET (BLOWER DRIVE HOLE COVER)	1											1
5A,B	5150193	GASKET (5.1010)	AR	AR		AR	AR	AR	AR			AR		AR
5A,B	5116391	GASKET			2					2	2		2	
	1.5075	GASKET, STARTING MOTOR HOLE COVER												
5A,B	5130995	GASKET (7.3004)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 3 7	3 3 8	3 3 9	3 4 0	3 4 2	3 4 3	3 4 4	3 4 5	3 4 6	3 4 7	3 4 8	3 4 9
1.5001 - HOUSING ASSY., FLYWHEEL														
B	5132267	HOUSING, (SAE #3) 6V53	1											
B	5135310	HOUSING, (SAE #1) 6V53		1										
A	5132965	HOUSING, (SAE #3) 2,3,4-53			1					1		1		
B	5132282	HOUSING, (SAE #2) 6V53				1								
A	5132264	HOUSING, (SAE #4) 3-53					1							
A	5132246	* HOUSING, (SAE #3) 2,3-53						1	1		1			
A	5132269	HOUSING, (SAE #3) 6V53											1	
A	8924582	HOUSING, (SAE #3) 2,3,4-53												1
A,B	5145014	PLUG, 3/8" PIPE (12.9550)			1			1	1	1	1	1		1
	5115214	PLUG, 1/2" PIPE (12.9550)	1			1	1							1
	5142549	PLUG, 3/4" PIPE (12.9550)		1										1
A,B	5111798	PLUG, 1" SQ. SKT. (12.9550)						1						
A,B	5146646	PLUG, 1 1/4" PIPE (12.9550)			1			1						
	141195	PIN, 1/4"x5/8" DOWEL (12.9290)	1	1		1								
A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	9409079	BOLT, 3/8"-16X7/8" LOCK (12.9001)	1			1					1			
	5101779	BOLT, 3/8"-16X7/8" LOCK (12.9001)			1		1			2			1	1
	179838	BOLT, 3/8"-16X7/8" (12.9001)								7				
A,B	9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	8	8	6	8	6	6	6	6	6	6	6	6
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)	2	2		2								
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)	6	6		6							6	
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)	2	2		2								
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)	2	2		2								
	5170489	BOLT, 3/8"-24X3 9/16" LOCK (12.9001)												
A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	3	AR	3	AR	3	AR	3	AR	3	AR
	117049	NUT, 3/8"-24 (12.9120)	2	2		2								
		* NOT SERVICED; USE 5146903 PLUS (1) 5145014, (1) 5142549, (1) 5146646 PLUGS.												
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
	5123802	SHIM	1	1	1	1	1	1	1	1	1	1	1	1
1.5010 - GASKET, FLYWHEEL HOUSING														
A,B	5175882	GASKET, 7/8" DIA. 6, 8V53 (4.4115)	1	1		1							1	
A,B	5137470	GASKET, 6V53	1	1		1								
A,B	5121334	GASKET, 2,3,4-53			1		1	1	1	1	1	1	1	1
1.5020 - GASKET, FLYWHEEL HOUSING BELL														
	5108426	GASKET, 6V53 (1.5135)		1										
	5127184	GASKET, 4-53									1	1		

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 7	3 8	3 9	3 4 0	3 4 2	3 4 3	3 4 4	3 4 5	3 4 6	3 4 7	3 4 8	3 4 9
		1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE												
5A,B	5122281	COVER	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
5A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8	8	8	8	8	8	8
		1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER												
5A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2	1
		1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE												
5A,B	5152716	COVER (3.4223)	AR	AR		AR								
5A,B	5116411	* COVER			1		2	2	1	1	1	1	1	AR
5A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	AR	AR	2	AR	4	4	2	2	2	2	2	AR
5A,B	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR	4	AR	4	4	4	4	4	4	4	4
		* USE "2" FOR A TWO, "2" FOR A THREE, AND "1" FOR A FOUR.												
		1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER												
5A,B	5150193	GASKET (5.1010)	AR	AR		AR								
5A,B	5116391	GASKET			2		2	2	2	2	2	2	2	2
		1.5075 - GASKET, STARTING MOTOR HOLE COVER												
5A,B	5130995	GASKET (7.3004)	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
		1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE												
	5108939	COVER	2										2	
	181309	BOLT, 1/4"-28X1/2" (12.9001)	4										4	
	120392	WASHER, 9/32"X5/8" ZINC (12.9190)	4										4	
	120380	LOCKWASHER, 1/4" (12.9200)	4										4	

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 5 0	3 5 1	3 5 4	3 5 6	3 5 7	3 5 8	3 5 9	3 6 0	3 6 1	3 6 3	3 6 5	3 7 1
1.5001 - HOUSING ASSY., FLYWHEEL														
FOR TYPE 368 AND 369 USE TYPE 208.														
B	5132252	HOUSING, (SAE #3) 6V53	1											
A	5132268	HOUSING, (SAE #3) 4-53		1										
B	5135961	* HOUSING, (SAE #2) 8V53			1									
A	5136248	HOUSING, (SAE #3) 3-53				1								
A	5132247	HOUSING, (SAE #2) 2,3,4-53					1							
B	5132282	HOUSING, (SAE #2) 6V53						1						
A	5132255	HOUSING, (SAE #2) 2,3,4-53							1					
A	5132248	HOUSING, (SAE #2) 2,3,4-53								1				
B	5132251	HOUSING, (SAE #2) 6V53									1			
B	5132266	HOUSING, (SAE #1) 6V53										1		
B	5133931	HOUSING, (SAE #3) 8V53											1	
B	5140107	HOUSING, (SAE #1) 8V53												1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)	1					1			1	1		
A,B	5145014	PLUG, 3/8" PIPE (12.9550)				1								
A,B	5115214	PLUG, 1/2" PIPE (12.9550)	1		1		1	1	1	1	1	1	1	1
A,B	5146646	PLUG, 1 1/4" PIPE (12.9550)						1						
A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	9409079	BOLT, 3/8"-16X7/8" (LOCK) (12.9001)				1								
	5101779	BOLT, 3/8"-16X7/8" (LOCK) (12.9001)		1			1		1	1				
	179838	BOLT, 3/8"-16X7/8" (12.9001)					5	5	5	5				
A,B	9414215	BOLT, 3/8"-16X2 1/2" (LOCK) (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
A,B	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	8	6		6	6	8	6	6	8	8		
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)	2		8			2			2	2	8	10
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)			3								3	3
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)	6		6			6			6	6	6	6
	455537	BOLT, 3/8"-16X4" (12.9001)			2								2	2
	215510	BOLT, 3/8"-16X5 3/4" (12.9001)			2								2	
A,B	192884	BOLT, 3/8"-16X6 3/4" (12.9001)			2								2	
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)	2		2			2			2	2	2	2
	186310	BOLT, 3/8"-24X3 1/4" (12.9001)	2		2			2			2	2	2	2
	5170489	BOLT, 3/8"-24X3 9/16" (12.9001)			2									
A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	103341	WASHER, 3/8" (12.9190)												
	117049	NUT, 3/8"-24 (12.9120)	2		2			2			2	2	2	2
* OBSOLETE														
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
	5123802	SHIM	1	1	1	1	1	1	1	1	1	1	1	1
1.5010 - GASKET, FLYWHEEL HOUSING														
A,B	5132947	GASKET, 8V53			1								1	1
A,B	5137470	GASKET, 6V53	1					1			1	1		
A,B	5121334	GASKET, 2,3,4-53		1		1	1		1	1				

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	350	351	354	356	357	358	359	360	361	363	365	371
		1.5010 - GASKET, FLYWHEEL HOUSING (CONT'D)												
	5175882	GASKET, 7/8" DIA. 6, 8V53 (4.4115)	1		1			1			1	1	1	1
		1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE												
5A,B	5122281	COVER (PLAIN)	2	2	2	2	2	2	2	2	2	2	2	2
	5135572	COVER												2
5A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	10
5A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
5A,B	5125108	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	10
	103343	WASHER, 1/2" (12.9190)	1		8								8	8
5A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8		8	8	8	8	8	8	8		
		1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER												
5A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2	2
	5135600	GASKET												2
		1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE												
5A,B	5116411	COVER		2		2	2			2				
	5133210	COVER (BLOWER DRIVE HOLE)			1								1	1
5A,B	5152716	COVER (3.4223)	2	2	2		2			2	2			
5A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	6	4	6	4	4	6	4	4	6	6	4	4
	179823	BOLT, 5/16"-18X1 5/8" (12.9001)			4								4	4
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)			1								1	1
	103341	WASHER, 3/8" (12.9190)			1								1	1
5A,B	103320	LOCKWASHER, 5/16" (12.9200)	6	4	10	4	4	6	4	4	6	6	10	10
		1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER												
5A,B	5150193	GASKET (5.1010)	2		2			2			2	2		
5A,B	5116391	GASKET (5.1010)		2		2	2		2	2				
	5133082	GASKET (BLOWER DRIVE HOLE COVER)			1								1	1
		1.5075 - GASKET, STARTING MOTOR HOLE COVER												
5A,B	5130995	GASKET (7.3004)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE												
	5108939	COVER		2								2		
	181309	BOLT, 1/4"-28X1/2" (12.9001)		4								4		
	120380	LOCKWASHER, 1/4" (12.9200)		4								4		
	120392	WASHER, 9/32"X5/8" ZINC (12.9190)		4								4		

1.5000A FLYWHEEL HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 7 4	3 7 5	3 7 6	3 7 8	3 7 9	3 8 0	3 8 1	3 8 4	3 8 6	3 8 7	3 8 8	3 8 9
1.5001 - HOUSING ASSY., FLYWHEEL														
B	5137293	HOUSING, (SAE #3) 6V53	1											
A	8924580	HOUSING, (SAE #3) 3-53		1										
A	5136997	HOUSING, (SAE #3) 3-53			1									
A	5132247	HOUSING, (SAE #2) 3-53				1				1				
A	5132246	* HOUSING, (SAE #3) 2-53					1							
A	5132261	HOUSING, (SAE #3) 3,4-53						1						
B	5135608	HOUSING, (SAE #2) 8V53							1					
A	5136769	+ HOUSING, (SAE #3) 3-53									1			
B	5132249	@ HOUSING, (SAE #1) 6V53										1		
A	5132773	HOUSING, (SAE #3) 3-53											1	1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)	1									1		
A,B	5145014	PLUG, 3/8" PIPE (12.9550)		1	1			1					1	1
A,B	5115214	PLUG, 1/2" PIPE (12.9550)	1						1			1		
A,B	5146646	PLUG, 1 1/4" PIPE (12.9550)	1											
A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	1	2	2	2	2	2	2	2	2	2	2
	9409079	BOLT, 3/8"-16X7/8" (LOCK) (12.9001)		2			1		1	1	1		1	1
	5101779	BOLT, 3/8"-16X7/8" (LOCK) (12.9001)				1		1					1	
	179838	BOLT, 3/8"-16X7/8" (12.9001)			5	5	5	5	5	5	5	5	5	5
A,B	9414215	BOLT, 3/8"-16X2 1/2" (LOCK) (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
A,B	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	8	6	6	6	6			6	6		6	6
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)	2						8					
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)							3					
A,B	191249	BOLT, 3/8"-16X3 3/4" (12.9001)	6						4			6		
A,B	455537	BOLT, 3/8"-16X4" (12.9001)							4					
A,B	192884	BOLT, 3/8"-16X6 3/4" (12.9001)							2					
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)	2			2			2					
	186310	BOLT, 3/8"-24X3 1/4" (12.9001)	2			2			2					
	5170489	BOLT, 3/8"-24X3 9/16" (12.9001)		3	3	3	3	3		3			3	3
A,B	5135321	BOLT, 3/8"-24X3 11/16"									3			
A,B	120393	WASHER, 5/16" (12.9190)									2		2	
	103341	WASHER, 3/8" (12.9190)							13		13		13	
A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	117049	NUT, 3/8"-24 (12.9120)	2						2			2		
		* NOT SERVICED, REPLACE WITH 5146903 HOUSING, PLUS 1-5145014, 1-5142549 AND 1-5146646 PLUGS.												
		@ INCLUDES INTEGRAL IDLER GEAR HOLE SPACER IN 1.7260 EFFECTIVE WITH 3D-54115.												
		+ OBSOLETE.												
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
	5123802	SHIM	1	1				1	1			1	1	
1.5010 - GASKET, FLYWHEEL HOUSING														
A,B	5132947	GASKET, 8V53							1					
A,B	5137470	GASKET, 6V53	1									1		
A,B	5121334	GASKET, 2,3,4-53	1	1	1	1	1	1		1	1		1	1

1.5000A FLYWHEEL HOUSING

PART		NAME AND DESCRIPTION	TYPES											
FIG	NUMBER		3 7 4	3 7 5	3 7 6	3 7 8	3 7 9	3 8 0	3 8 1	3 8 4	3 8 6	3 8 7	3 8 8	3 8 9
	1.5010	- GASKET, FLYWHEEL HOUSING (CONT'D)												
	5175882	GASKET, (7/8" DIA.) 6,8V53 (4.4115)	1					1			1			
	1.5020	- GASKET, FLYWHEEL HOUSING BELL												
	5108426	GASKET, 6V53									1			
	1.5030	- COVER, FLYWHEEL HOUSING LARGE HOLE												
5A,B	5122281	COVER (PLAIN)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	5132184	COVER	1									1		
5A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
5A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	5125108	WASHER, 7/16" STEEL (2.4030)							2					
	103343	WASHER, 1/2" (12.9190)							8					
5A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8		8	8	8	8	8
	1.5040	- GASKET, FLYWHEEL HOUSING LARGE HOLE COVER												
5A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2	2
	1.5050	- COVER, FLYWHEEL HOUSING SMALL HOLE												
5A,B	5116411	COVER		2	2	2	2	2		2			2	
5A,B	5152716	COVER (3.4223)	2									2		
5A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	6	4	4	4	4	4		4		6	4	4
	179823	BOLT, 5/16"-18X1 5/8" (12.9001)							4					
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)							1					
	103341	WASHER, 3/8" (12.9190)							1					
5A,B	103320	LOCKWASHER, 5/16" (12.9200)	6	4	4	4	4	4	10	4		6	4	4
	1.5060	- GASKET, FLYWHEEL HOUSING SMALL HOLE COVER												
5A,B	5150193	GASKET (5.1010)	2									2		
5A,B	5116391	GASKET (5.1010)		2	2	2	2	2		2			2	2
	1.5075	- GASKET, STARTING MOTOR HOLE COVER												
5A,B	5130995	GASKET (7.3004)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

1.5000A FLYWHEEL, HOUSING

PART		TYPES											
FIG . . .	NUMBER	NAME AND DESCRIPTION											
		3 7 4	3 7 5	3 7 6	3 7 8	3 7 9	3 8 0	3 8 1	3 8 4	3 8 6	3 8 7	3 8 8	3 8 9
	1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE												
5125233	COVER		2				2						
181309	BOLT, 1/4"-28X1/2" (12.9001)		4				4						
120380	LOCKWASHER, 1/4" (12.9200)		4				4						
	1.5096 - HOSE, FLYWHEEL HOUSING DRAIN												
5124238	HOSE, 3/8" I.D. X 50" L. (1.1060)					1							
5120998	CONNECTOR, 3/8"-90 DEG. HOSE (1.1100)				1	1			1				
8924158	BUSHING, 1/2" X 3/8" (12.9570)				1				1				

1.5000A FLYWHEEL, HOUSING

PART		NAME AND DESCRIPTION	TYPES											
FIG	NUMBER		3 9 2	3 9 3	3 9 6	3 9 7	3 9 9	4 0 4	4 0 5	4 0 6	4 0 7	4 1 0	4 1 2	4 1 5
1.5001 - HOUSING ASSY., FLYWHEEL														
5A	5198474	# HOUSING, (SAE #3) 4-53	1											
5B	5132270	HOUSING, (SAE #2) 6V53		1										
5A	5138568	= HOUSING, (SAE #3) 6V53 (SD-113)			1									
5B	5138882	HOUSING, (SAE #2) 6V53				1								
5A	5132247	HOUSING, (SAE #2) 4-53					1							
5A	5139315	HOUSING, (SAE #3) 4-53						1						
5B	5139154	HOUSING, (SAE #2) 6V53							1					
5A	5119351	HOUSING, (SAE #4) 2-53								1				
5A	5139568	HOUSING, (SAE #3) 3-53									1			
5A	5132259	HOUSING, (SAE #3) 3-53										1		
5B	5140393	HOUSING, (SAE #3) 6V53											1	
5A	5139908	* HOUSING, (SAE #3) 3-53												1
	5116220	SPACER (1.7260)								1				
	452664	INSERT, 5/16"-18X5/16" (12.9118)									6			
	452692	INSERT, 3/8"-16X9/16" (12.9118)									3			
	452696	INSERT, 3/8"-16X3/4" (12.9118)									10			
	452788	INSERT, 5/8"-11X15/16" (12.9118)									3			
	5145014	PLUG, 3/8" PIPE (12.9550)	1					1				1		1
	5115214	PLUG, 1/2" PIPE (12.9550)			1	1	1		1	1			1	
	5103187	PLUG, 3/4" PIPE (12.9550)	1											
	5146646	PLUG, 1 1/4" PIPE (12.9550)	1					1						
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)		1	1	1			1				1	
5A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	179838	BOLT, 3/8"-16X7/8" (12.9001)	5				7	7		4	6	5		5
	9409079	BOLT, 3/8"-16X7/8" LOCK (12.9001)	1					1		1				1
	5101779	BOLT, 3/8"-16X7/8" LOCK (12.9001)					1					1		
	179839	BOLT, 3/8"-16X1" (12.9001)									6			
5A,B	5157244	BOLT, 3/8"-16X1 3/4" (12.9001)								1				
	9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	6	8	8	8	6		6	6	6	6	8	6
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)		2	2	2			2				2	
	179851	BOLT, 3/8"-16X3" (12.9001)									6			
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)		6	6	6			6				6	
	5170491	BOLT, 3/8"-24X2 21/32" LOCK (12.9001)									3			
	5170489	BOLT, 3/8"-24X3 9/16" (12.9001)	3				3	3		3				3
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)		2	2	2			2				2	
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)		2	2	2			2				2	
	120393	WASHER, 5/16" (12.9190)									2			
5A,B	103341	WASHER, 3/8" (12.9190)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	117049	NUT, 3/8"-24 (12.9120)		2	2	2			2				2	
		# NOT SERVICED; SUPERSEDED BY												
		5146903 PLUS (1) 5145014, (1)												
		5142549 AND (1) 5146646 PLUGS.												
		* OBSOLETE												
		= NOT SERVICED, USE 5123719,												
		5116220 AND 5157244.												

1.5000A FLYWHEEL HOUSING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 9 2	3 9 3	3 9 6	3 9 7	3 9 9	4 0 4	4 0 5	4 0 6	4 0 7	4 1 0	4 1 2	4 1 5
	1.5002	SHIM, FLYWHEEL HOUSING TO END PLATE												
	5123802	SHIM	1	1	1	1	1	1	1	1	1	1	1	1
	1.5004	SEAL, CRANKSHAFT OIL SEAL - REAR												
	5116229	SEAL (1.3060)									1			
	1.5010	GASKET, FLYWHEEL HOUSING												
A,B	5175882	GASKET, (7/8" DIA.) 6.8V53 (4.4115)		1	1	1			1				1	
	5137470	GASKET, 6V53		1	1	1			1				1	
	5121334	GASKET, 2,3,4-53	1				1	1		1	1	1		1
	1.5020	GASKET, FLYWHEEL HOUSING BELL												
	5134188	GASKET, 4-53					1							
	5133899	GASKET, 2-53								1				
	1.5030	COVER, FLYWHEEL HOUSING LARGE HOLE												
A,B	5122281	COVER	2	2	2	2	2	2	2	2	2	2	2	2
A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2	2	2	2	2	2	2	2	2	2
A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8	8	8	8	8	8	8
	1.5040	GASKET, FLYWHEEL HOUSING LARGE HOLE COVER												
A,B	5104506	GASKET	2	2	2	2	2	2	2	2	2	2	2	2
	1.5050	COVER, FLYWHEEL HOUSING SMALL HOLE												
A,B	5116411	COVER	2							2				
	5152716	COVER (3.4223)		2							1			
	5155815	COVER (TACHOMETER HOLE) (1.7490)									1			
	5130992	# PLUG, CUP (3.4223)			2	2								
	9419648	SCREW, 5/16"-18X3/4" SELF-TAP (12.9066)												
	179816	BOLT, 5/16"-18X1 5/16" (12.9001)									2			
A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	4	6						4	3			
A,B	103320	LOCKWASHER, 5/16" (12.9200)	AR	AR						AR	AR			
		# NOT SERVICED; REPLACE WITH 2-5152716 COVERS, 2-5150193 GASKETS, 6-186625 BOLTS AND 6-103320 LOCKWASHERS.												
	1.5060	GASKET, FLYWHEEL HOUSING SMALL HOLE COVER												
A,B	5150193	GASKET (5.1010)		2							1			
	5116391	GASKET	2							2				
	5135935	GASKET (TACHOMETER COVER) (1.4455)									1			

DETROIT DIESEL

53 MPC ENGINES

1.5000A FLYWHEEL, HOUSING

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		3 9 2	3 9 3	3 9 6	3 9 7	3 9 9	4 0 4	4 0 5	4 0 6	4 0 7	4 1 0	4 1 2	4 1 5
	1.5075 - GASKET, STARTING MOTOR HOLE COVER												
	5130995 GASKET (7.3004)	AR											
	1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE												
	5108939 COVER			2								2	
	5125233 COVER										2		
	181309 BOLT, 1/4"-28X1/2" (12.9001)			4							4	4	
	103319 LOCKWASHER, 1/4" (12.9200)			4							4	4	

1.5000A FLYWHEEL, HOUSING

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 1 6	4 2 4	4 2 6	4 3 1	4 3 3	4 4 6	4 4 7	4 5 1	4 5 4	4 6 7	4 7 0	4 8 9
1.5001 - HOUSING ASSY., FLYWHEEL														
A	5140558	HOUSING, (AUTOMOTIVE) 3,4-53	1											
A	5137813	# HOUSING, (SAE #3) 4-53		1										
B	5136838	+ HOUSING, (SAE #3) 8V53			1									
B	5140370	HOUSING, (SAE #2) 6V53				1								
A	5132247	HOUSING, (SAE #2) 4-53					1							
A	5142479	+ HOUSING, (SAE #3) 4-53						1						
B	5141887	HOUSING, (SAE #2) 8V53							1					
B	5143807	HOUSING, (SAE #3) 8V53								1				
A	5142630	HOUSING, (SAE #2) 4-53									1			
A	5145038	HOUSING, (SAE #2) 4-53										1		
A	5144952	HOUSING, (SAE #3) 3-53											1	
A	8924510	HOUSING, (SAE #3) 2-53												1
	452664	INSERT, 5/16"-18X5/16" (12.9118)			4									
	452692	INSERT, 3/8"-16X9/16" (12.9118)			12									
	452720	INSERT, 7/16"-14X7/8" (12.9118)			2									
	452736	INSERT, 1/2"-13X3/4" (12.9118)			16									
	452788	INSERT, 5/8"-11X15/16" (12.9118)			3									
	5145014	PLUG, 3/8" PIPE (12.9550)						1					1	
	5115214	PLUG, 1/2" PIPE (12.9550)				1	1	1	1	1		1		
	5142549	PLUG, 3/4" PIPE (12.9550)												1
	5111798	PLUG, 1" PIPE (2.7001)									1			
	5146646	PLUG, 1 1/4" PIPE (12.9550)											1	1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)			1	1								
A,B	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	9409079	BOLT, 3/8"-16X7/8" LOCK (12.9001)		1			1	1				1	1	1
	5101779	BOLT, 3/8"-16X7/8" (12.9001)										1		
A,B	179838	* BOLT, 3/8"-16 X 7/8" (12.9001)	AR	7			5	5			7	5	5	5
	9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)		8	6	8	6	6			6	6	6	6
	186278	BOLT, 3/8"-16X2 5/8" (12.9001)			2									
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)				2			8	8				
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)							3	3				
	214265	+ BOLT, 3/8"-16X3 3/4" (12.9001)			6									
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)				6			4	6				
	455537	BOLT, 3/8"-16X4" (12.9001)								2				
	215510	BOLT, 3/8"-16X5 3/4" (12.9001)								2				
	192884	BOLT, 3/8"-16X6 3/4" (12.9001)												
	5170491	BOLT, 3/8"-24X2 21/32" LOCK (12.9001)	3											
	5170489	BOLT, 3/8"-24X3 9/16" (12.9001)		3			3	3			2	3	3	3
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)			2	2			2	2	1			
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)			2	2			2	2				
	8920763	SPACER, .385" I.D.X1.00" O.D.X.013" THK. (3.4137)												
	103341	WASHER, 3/8" (12.9190)							1					
A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	117049	NUT, 3/8"-24 (12.9120)			2	2			2	2				
* USE 6 FOR A THREE CYLINDER AND 5 FOR A FOUR CYLINDER FOR TYPE 416.														
+ OBSOLETE.														
# NOT SERVICED, USE 5146903 AND ONE EACH OF 5145014 AND 5146046 PLUGS.														

1.5000A FLYWHEEL HOUSING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	4 1 6	4 2 4	4 2 6	4 3 1	4 3 3	4 4 6	4 4 7	4 5 1	4 5 4	4 6 7	4 7 0	4 8 9
		1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE												
	5123802	SHIM	1	1	1	1		1	1	1	1	1	1	
		1.5004 - SEAL, CRANKSHAFT OIL-REAR												
	5116229	SEAL (1.3060)				1								
		1.5010 - GASKET, FLYWHEEL HOUSING												
5A,B	5175882	GASKET, 7/8" DIA. 6, 8V53 (4.4115)			1	1				1				
	5137470	GASKET, 6V53			1	1								
	5121334	GASKET, 2,3,4-53	1	1			1	1				1	1	1
	5132947	GASKET, 8V53							1	1	1			
		1.5020 - GASKET, FLYWHEEL HOUSING BELL												
	5127184	GASKET, 4-53		1										
		1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE												
5A,B	5122281	COVER	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
5A,B	122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)								8				
5A,B	5150568	WASHER, 7/16" COPPER (2.4050)	2	2	2		2	2	2	2	2	2	2	2
5A,B	5125108	WASHER, 7/16" STEEL (2.4030)		2		2			2	2				
	103343	WASHER, 1/2" (12.9190)							8					
	106264	WASHER, 1/2" (12.9190)								8				
5A,B	103323	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8			8	8	8	8
		1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER												
5A,B	5104506	GASKET		2	2	2	2	2	2	2	2	2	1	2
		1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE												
	5116411	COVER		2			2	2			2	2		2
	5155815	COVER (TACHOMETER HOLE) (1.7490)	1											
	5133210	COVER							1	1				
	5152716	COVER (3.4223)				2								
	5130992	# PLUG, CUP (3.4223)			2				2	2				
	9419648	SCREW, 5/16"-18X3/4" SELF-TAP (12.9066)	2											
5A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)		4		6	4	4			4	4		4
	179823	BOLT, 5/16"-18X1 5/8" (12.9001)							4	4				
	192883	BOLT, 3/8"-16X5 1/4" (12.9001)							1	1				
	446202	WASHER, 5/16" (12.9120)							1	1				
	103341	WASHER, 3/8" (12.9120)												
	120392	WASHER, 1/4" (12.9120)				4								

1.5000A FLYWHEEL, HOUSING

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	4 1 6	4 2 4	4 2 6	4 3 1	4 3 3	4 4 6	4 4 7	4 5 1	4 5 4	4 6 7	4 7 0	4 8 9
1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE (CONT'D)														
5A,B	103320	LOCKWASHER, 5/16" (12.9200) # NOT SERVICED; REPLACE WITH 2-5152716 COVERS, 2-5150193 GASKETS, 6-186625 BOLTS AND 6-103320 LOCKWASHERS.	AR	AR		AR	AR	AR	AR		AR	AR		AR
1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER														
	5116391	GASKET		2		2	2	2	2		2	2		2
	5150193	GASKET				2								
	5135935	GASKET (TACHOMETER COVER) (7.4455)	1											
	5133082	GASKET							1	1				
1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE														
	5108939	COVER				2								
	181309	BOLT, 1/4"-28X1/2" (12.9001)				4								
	120393	WASHER, 9/32"X5/8" ZINC (12.9190)				4								
	103319	LOCKWASHER, 1/4" (12.9200)				4								
1.5096 - HOSE, FLYWHEEL HOUSING DRAIN														
	5124238	@ HOSE, 3/8" I.D. X 14 L. (1.1060)												1
	5120998	CONNECTOR, 3/8"-90 DEG. HOSE (1.1100)												1
		@ BULK HOSE, CUT TO LENGTH SHOWN.												

1.5000A FLYWHEEL HOUSING

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	4 9 0	4 9 1	5 0 7	5 3 4	5 8 3	6 0 3	6 1 0	6 1 3	6 1 4	6 4 7	6 5 3	6 5 4
1.5001 - HOUSING ASSY., FLYWHEEL														
5A	5148954	HOUSING (SAE #2) 4-53			1									
	5105035	HOUSING (NO BELL) 3, 4-53				1								
5B	5106585	HOUSING (SAE #2) 6V53					1							
	5119353	+ HOUSING (SAE #4) 2, 3, 4-53						1						
5A	8922480	HOUSING (SAE #2) 4-53							1					
	8924575	HOUSING (SAE #3) 2, 3, 4-53								1				
5B	8923364	HOUSING (SAE #3) 6V53									1			
5A	8924510	HOUSING (SAE #3) 2, 3, 4-53	1	1								1		
5A	8924580	HOUSING (SAE #3) 2, 3, 4-53											1	
	8924578	HOUSING (SAE #3) 3, 4-53												1
	141195	PIN, 1/4"X5/8" DOWEL (12.9290)					1				1			
	8924517	PLUG, 3/8" PIPE (12.9550)	1	1						1		1		
	5142549	PLUG, 3/4" PIPE (12.9550)	1	1								1		
	8924751	PLUG, 1 1/4" PIPE (12.9550)	1	1						1		1		
	8924750	PLUG, 1" PIPE (12.9550)			1				1					
	5115214	PLUG, 1/2" PIPE (12.9550)			1		1	1			1			
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)	6	6	6		8	6	6	6	8	6	6	6
	179850	BOLT, 3/8"-16X2 3/4" (12.9001)					2				2			
	191249	BOLT, 3/8"-16X3 3/4" (12.9001)					6				6			
	8927580	BOLT, 3/8"-16X7/8" (12.9001)	5	5	7	6		5	5	5		5	5	5
	9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
	5101779	BOLT, 3/8"-16X7/8" LOCK (12.9001)	1	1				1	1	1		1	1	1
	8927580	BOLT, 3/8"-16X7/8" AA LOCK (12.9001)			1									
	9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
	5170491	BOLT, 3/8"-24X2 21/32 LOCK (12.9001)				3								
	186309	BOLT, 3/8"-24X3 1/4" (12.9001)			1		2				2			
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)					2				2			
	5170489	BOLT, 3/8"-24X3 9/16" (12.9001)	3	3	8			3	3	3		3	3	3
	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	103026	NUT, 3/8"-24 (12.9120)					2				2			
		+ NOT SERVICED, USE 8924575 AND 1-5123802 SHIM.												
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE														
	5123802	SHIM	1	1	1	1	1	1	1	1	1	1	1	1
1.5004 - SEAL, CRANKSHAFT OIL-REAR														
	5116229	SEAL (1.3060)				1					1			
	5128917	SEAL (1.3060)						1	1					
	8926902	SEAL (1.3060)					1					1	1	
1.5010 - GASKET, FLYWHEEL HOUSING														
	5121334	GASKET, 2,3,4-53	1	1	1	1		1	1	1		1	1	1
	5137470	GASKET, 6V53					1				1			
	5175882	GASKET, 6V53					1				1			

1.5000A FLYWHEEL HOUSING

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		4 9 0	4 9 1	5 0 7	5 3 4	5 8 3	6 0 3	6 1 0	6 1 3	6 1 4	6 4 7	6 5 3	6 5 4
1.5020 - GASKET, FLYWHEEL HOUSING BELL													
5127184	GASKET, 2,3,4-53	1	1					1			1		
5134188	GASKET, 4-53												
1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE													
5122281	COVER	1	1	2		2		2	2	2	2	2	2
5152716	COVER (3.4223)					2				2			
5150193	GASKET (5.1010)					2				2			
186625	BOLT, 5/16"-18X7/8" (12.9001)									6			
179857	BOLT, 7/16"-14X1" (12.9001)	2	2	2		2		2	2	2	2	2	2
122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8		8		8	8	8	8	8	8
5150568	WASHER, 7/16" (COPPER) UPPER (2.4050)	2	2	2									
5125108	WASHER, 7/16" (2.4030)					2		2	2	2	2	2	2
103343	WASHER, 1/2" (12.9190)									1			
103320	LOCKWASHER, 5/16" (12.9200)									6			
103323	LOCKWASHER, 1/2" (12.9200)	8	8	8		8		8	8	8	8	8	8
1.5040 - GASKET, FLYWHEEL HOUSING LARGE HOLE COVER													
8922443	SEALANT, RTV (3.0 FL. OZ.) (12.8255)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
8922442	SEALANT, RTV (10.3 FL. OZ.) (12.8255)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1.5050 - COVER, FLYWHEEL HOUSING SMALL HOLE													
5116411	COVER	2	2	1				2	2		2	2	2
5155815	COVER (TACHOMETER HOLE)(1.7490)				1								
186625	BOLT, 5/16"-18X7/8" (12.9001)	4	4	4		6		4	4		4	4	4
179816	BOLT, 5/16"-18X3/4" (12.9001)				2								
103320	LOCKWASHER, 5/16" (12.9200)	4	4	4	2	6		4	4		4	4	4
1.5060 - GASKET, FLYWHEEL HOUSING SMALL HOLE COVER													
5116391	GASKET	2	2	2				2	2		2	2	2
5135935	GASKET (TACHOMETER COVER) (7.4455)				1								
8922443	SEALANT, RTV (3.0 FL. OZ.) (12.8255)	AR	AR	AR	AR			AR	AR		AR	AR	AR
8922442	SEALANT, RTV (10.3 FL. OZ.) (12.8255)	AR	AR	AR	AR			AR	AR		AR	AR	AR
1.5080 - COVER, FLYWHEEL HOUSING INSPECTION HOLE													
5108939	COVER			2									2
5125233	COVER											2	
181309	BOLT, 1/4"-28X1/2" (12.9001)			4								4	4
120393	WASHER, 9/32"X5/8" ZINC (12.9190)			4								4	4
103319	LOCKWASHER, 1/4" (12.9200)			4								4	4

1.5000A FLYWHEEL, HOUSING

PART ..FIG .. NUMBER	NAME AND DESCRIPTION	TYPES									
		6 9 6	7 0 5	7 1 0							
1.5001 - HOUSING ASSY., FLYWHEEL											
8928647	HOUSING, 6V53 (SAE #3) (ALUMINUM)	1									
5106585	HOUSING, 6V53 (SAE #2)		1								
23502128	HOUSING, 6V53 (SAE #3)			1							
5115214	PLUG, 1/2" PIPE (12.9550)	1	1	1							
8924751	PLUG, 1" SQ. SOC. (12.9550)	1		1							
141195	PIN, 1/4"x5/8" DOWEL (12.9290)	1	1	1							
5164294	SPACER, 13/32"x7/8"x1/8" (7.1581)	2									
452736	INSERT, HELI-COIL 1/2"-13X1/2" (12.9119)	4									
452696	HELI-COIL, 3/8"-16X3/4" (12.9118)	10									
9409126	BOLT, 5/16"-18X2 1/2" (12.9001)	2	2	2							
5101779	BOLT, 3/8"-16X7/8" (12.9001)	1									
8927580	BOLT, 3/8"-16X1.015" (12.9001)	5									
9414215	BOLT, 3/8"-16X2 1/2" (12.9001)	4	4	4							
427588	BOLT, 3/8"-16X2 1/2" (12.9001)	8	8	8							
179850	BOLT, 3/8"-16X2 3/4" (12.9001)		2	2							
5170489	BOLT, 3/8"-24X3 9/16" (12.9001)	3									
191249	BOLT, 3/8"-16X3 3/4" (12.9001)	8	6	6							
186288	BOLT, 3/8"-16X4 1/2" (12.9001)	1									
186309	BOLT, 3/8"-24X3 1/4" (12.9001)	2	2	2							
186310	BOLT, 3/8"-24X3 1/2" (12.9001)	2	2	2							
120393	WASHER, 5/16" (12.9190)	2									
103341	WASHER, 3/8" (12.9190)	23									
103321	LOCKWASHER, 3/8" (12.9200)	21	20	20							
102635	NUT, 3/8"-16 (12.9120)	1									
103026	NUT, 3/8"-24 (12.9120)	2	2	2							
1.5002 - SHIM, FLYWHEEL HOUSING TO END PLATE											
5123802	SHIM, 2.38" DIA. X .015" THK.	1	1	1							
1.5004 - SEAL, CRANKSHAFT OIL-REAR											
8926902	SEAL (1.3060)	1		1							
5128417	SEAL (1.3060)		1								
1.5010 - GASKET, FLYWHEEL HOUSING											
5137470	GASKET, 6V53	1	1	1							
5175882	GASKET, 6V53	1	1	1							
1.5030 - COVER, FLYWHEEL HOUSING LARGE HOLE											
5122281	COVER	2	2	2							
5152716	COVER	2	2	2							
5150193	GASKET	2	2	2							
5188224	BOLT, 7/16"-14X.88" (12.9001)	2	2	2							
122408	BOLT, 1/2"-13X1" (12.9001)	8	8	8							
5125108	WASHER, 7/16" (2.4030)	2	2	2							
103343	WASHER, 1/2" (12.9190)	1	1	1							
103323	LOCKWASHER, 1/2" (12.9200)	8	8	8							

1.5000A FLYWHEEL, HOUSING

PART		TYPES			
FIG	NUMBER	NAME AND DESCRIPTION	6	7	7
			9	0	1
			6	5	0
	1.5040	GASKET, FLYWHEEL HOUSING LARGE HOLE COVER			
8922443		SEALANT, RTV (3.0 FL. OZ.) (12.8255)	AR	AR	AR
8922442		SEALANT, RTV (10.3 FL. OZ.) (12.8255)	AR	AR	AR
	1.5050	COVER, FLYWHEEL HOUSING SMALL COVER			
5152716		COVER (3.4233)	2	2	2
186625		BOLT, 5/16"-18X7/8" (12.9001)	6	6	6
103320		LOCKWASHER, 5/16" (12.9200)	6	6	6
	1.5060	GASKET, FLYWHEEL HOUSING SMALL HOLE COVER			
5150193		GASKET	2	2	2
8922443		SEALANT, RTV (3.0 FL. OZ.) (12.8255)	AR	AR	AR
8922442		SEALANT, RTV (10.3 FL. OZ.) (12.8255)	AR	AR	AR

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

. TYPES

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1.6000 CONNECTING ROD AND PISTON

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 5	2 6	2 7	2 9	3 5	5 3	5 6	5 8	5 9	6 0	6 1	6 2
1.6001 - CONNECTING ROD ASSY.														
QUANTITIES SHOWN ARE PER CYLINDER. A ROD ASSY. INCLUDES CAP AND ORIFICE WHICH ARE NOT SOLD SEPARATELY, PLUS ITEMS IN 1.6001, 1.6010 AND 1.6040. VAPOR BLASTED BUSHING (TYPE 58 AND 59) NOT SERVICED SEPARATELY.														
A	5121262	ROD ASSY., 2,3,4-53	1	1	1			1					1	
A	5121381	ROD ASSY., 2-53				1								
A	5128517	# ROD ASSY., 6V53					1		1					
A	5133109	ROD ASSY., 6,8V53								1	1	1		1
A	5121210	& BOLT, 5/16"-24X2.90"L					2							
A	5128339	% BOLT, 5/16"-24X2.81"L					2		2					
A	5197852	BOLT, 3/8"-24X2.76"L	2	2	2	2	2	2	2	2	2	2	2	2
A	5121211	NUT, 5/16"-24					2		2					
A	839103	NUT, 3/8"-24	2	2	2	2	2	2	2	2	2	2	2	2
# NOT SERVICED, REPLACE WITH 5133109. & THRU 6D-306. % EFFECTIVE WITH 6D-307.														
1.6010 - NOZZLE, CONNECTING ROD SPRAY														
A	5150140	NOZZLE	1	1	1	1	1	1	1	1	1	1	1	1
1.6020 - ORIFICE, CONNECTING ROD														
	5198179	ORIFICE, 5/16"X7/16"	1	1	1			1		1	1	1	1	1
1.6040 - BUSHING, CONNECTING ROD PISTON PIN														
A	5116181	BUSHING	2	2	2	2	2	2	2			2	2	2
1.6100 - SHELL, CONNECTING ROD BEARING														
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER SHELL.														
	5149452	SHELL SET (STANDARD)	AR	AR	AR	AR		AR					AR	
	5149453	SHELL SET (.002"U.S.)	AR	AR	AR	AR		AR					AR	
	5149454	SHELL SET (.010"U.S.)	AR	AR	AR	AR		AR					AR	
	5149455	SHELL SET (.020"U.S.)	AR	AR	AR	AR		AR					AR	
	5149456	SHELL SET (.030"U.S.)	AR	AR	AR	AR		AR					AR	
	5197975	SHELL SET (STANDARD)					AR		AR	AR	AR	AR		AR
	5197976	SHELL SET (.002"U.S.)					AR		AR	AR	AR	AR		AR
	5197977	SHELL SET (.010"U.S.)					AR		AR	AR	AR	AR		AR
	5197978	SHELL SET (.020"U.S.)					AR		AR	AR	AR	AR		AR
	5197979	SHELL SET (.030"U.S.)					AR		AR	AR	AR	AR		AR
1.6110 - PISTON KIT														
A PISTON KIT INCLUDES BUSHING IN 1.6145 AND RETAINER IN 1.6150. VAPOR BLASTED BUSHINGS (TYPE 58, 59) NOT SERVICED SEPARATELY.														
	5195931	PISTON KIT (STANDARD) 2, 3, 4, 6V53	1	1	1	1	1					1		

1.6000 CONNECTING ROD AND PISTON

PART			TYPES											
..FIG	NUMBER	NAME AND DESCRIPTION	2 5	2 6	2 7	2 9	3 5	5 3	5 6	5 8	5 9	6 0	6 1	6 2
		1.6110 - PISTON KIT (CONT'D)												
6A	5198877	PISTON KIT ("N" ENGINE) 3, 4, 6, 8V53						1	1				1	1
6A	5198572	PISTON KIT (TURBO, VAP BLAST) 4, 6V53								1	1			
		1.6115 - RING SET, PISTON												
		A PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) CYLINDER.												
	5198822	RING SET	AR	AR	AR	AR	AR					AR		
	5198902	RING SET						AR	AR					
	5198901	RING SET (STANDARD TURBO)								AR	AR			
	5149942	RING SET											AR	AR
		1.6120 - RING, PISTON COMPRESSION												
6A	5103382	RING (FIRE RING)	1	1	1	1	1	1	1	1	1	1	1	1
6A	8923328	RING (FIRE RING)												
6A	5116184	RING (CHROMED) (2ND, 3RD AND 4TH)	3	3	3	3	3	3	3	3	3	3	3	3
6A	5127147	* RING (CAST IRON) (3RD AND 4TH) * OPTIONAL FOR SERVICE-USE FOR LOWER TWO COMPRESSION GROOVES ONLY.	AR	AR	AR	AR	AR							
		1.6130 - RING, PISTON OIL CONTROL												
		AN OIL CONTROL RING SET CONSISTS OF RINGS FOR ONE (1) CYLINDER. AN OIL CONTROL RING CONSISTS OF TWO (2) SCR APERS AND ONE (1) EXPANDER.												
6A	5195933	RING (UPPER AND LOWER GROOVE)	2	2	2	2	2	2	2			2	2	2
6A	5198092	RING SET								1	1			
		1.6140 - PIN, PISTON												
6A	5116189	PIN	1	1	1	1	1	1	1	1	1	1	1	1
		1.6145 - BUSHING, PISTON PIN												
6A	5116181	BUSHING (1.6040)	2	2	2	2	2	2	2			2	2	2
		1.6150 - RETAINER, PISTON PIN												
6A	5108131	RETAINER	2	2	2	2	2	2	2	2	2	2	2	2
		1.6180 - LINER, CYLINDER												
6A	5132803	LINER (STANDARD)	1	1	1	1	1	1	1	1	1	1	1	1
6A	5101016	LINER (.010" O.S., O.D.)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
6A	5149944	+ LINER (.020" O.S., O.D.) + USE WITH 5149945 SEAL.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

1.6000 CONNECTING ROD AND PISTON

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	25	26	27	29	35	53	56	58	59	60	61
		1.6182 - CYLINDER KIT											
		A CYLINDER KIT CONSISTS OF ITEMS IN 1.6110, 1.6120, 1.6140, 1.6150, 1.6180 AND 1.6190 FOR ONE (1) CYLINDER.											
	5198903	CYLINDER KIT (STD., 17:1 RATIO) 2,3,4,6V53	AR	AR	AR	AR	AR					AR	
	5198899	CYLINDER KIT ("N" ENGINES) 3,4,6,8V53 (21:1 RATIO)											AR
	5197341	# CYLINDER KIT (17.5:1 RATIO) 4,6V53								AR	AR		
	5198904	CYLINDER KIT (21:1, DEEP BOWL) 3,4,6V53						AR	AR				
		# NOT SERVICED, REPLACED BY 5149315 CYLINDER KIT.											
		1.6190 - SEAL, CYLINDER LINER											
1A	5121256	SEAL	2	2	2	2	2	2	2	2	2	2	2
1A	5149945	SEAL, .020" O.S., O.D.	2	2	2	2	2	2	2	2	2	2	2

1.6000 CONNECTING ROD AND PISTON

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	63	64	65	66	67	68	77	80	83	94	96	97
1.6001 - CONNECTING ROD ASSY.														
FOR TYPE 70 USE TYPE 80. QUANTITIES SHOWN ARE PER CYLINDER. A ROD ASSY. INCLUDES CAP AND ORIFICE WHICH ARE NOT SOLD SEPARATELY, PLUS ITEMS IN 1.6001, 1.6010 AND 1.6040.														
6A	5121262	ROD ASSY., 2,3,4-53			1	1	1		1	1		1		
6A	5121381	ROD ASSY., 2-53									1			
6A	5133109	ROD ASSY., 6,8V53	1	1				1					1	1
6A	5197852	BOLT, 3/8 -24X2.76 L.	2	2	2	2	2	2	2	2	2	2	2	2
6A	839103	NUT, 3/8"-24	2	2	2	2	2	2	2	2	2	2	2	2
1.6010 - NOZZLE, CONNECTING ROD SPRAY														
6A	5150140	NOZZLE	1	1	1	1	1	1	1	1	1	1	1	1
1.6020 - ORIFICE, CONNECTING ROD														
	5198179	ORIFICE, 5/16"X7/16"										1		
1.6040 - BUSHING, CONNECTING ROD PISTON PIN														
6A	5116181	BUSHING	2	2	2	2	2	2	2	2	2	2	2	2
1.6100 - SHELL, CONNECTING ROD BEARING														
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER SHELL.														
	5149452	SHELL SET (STANDARD)			AR	AR	AR		AR	AR	AR	AR	AR	
	5149453	SHELL SET (.002" U.S.)			AR	AR	AR		AR	AR	AR	AR	AR	
	5149454	SHELL SET (.010" U.S.)			AR	AR	AR		AR	AR	AR	AR	AR	
	5149455	SHELL SET (.020" U.S.)			AR	AR	AR		AR	AR	AR	AR	AR	
	5149456	SHELL SET (.030" U.S.)			AR	AR	AR		AR	AR	AR	AR	AR	
	5197975	SHELL SET (STANDARD)	AR	AR				AR					AR	AR
	5197976	SHELL SET (.002" U.S.)	AR	AR				AR					AR	AR
	5197977	SHELL SET (.010" U.S.)	AR	AR				AR					AR	AR
	5197978	SHELL SET (.020" U.S.)	AR	AR				AR					AR	AR
	5197979	SHELL SET (.030" U.S.)	AR	AR				AR					AR	AR
1.6110 - PISTON KIT														
A PISTON KIT INCLUDES BUSHING IN 1.6145 AND RETAINER IN 1.6150.														
6A	5195931	PISTON KIT, 2, 3, 4, 6V53 (STANDARD)									1			
6A	5198877	PISTON KIT, 3, 4, 6, 8V53 ("N" ENGINE)	1	1	1	1	1	1	1				1	1
6A	5198572	PISTON KIT, 4, 6V53 (TURBO)										1		
	5198427	PISTON KIT, 4-53								1				
1.6115 - RING SET, PISTON														
A PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) CYLINDER.														
	5198822	RING SET								AR	AR			

1.6000 CONNECTING ROD AND PISTON

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	6 3	6 4	6 5	6 6	6 7	6 8	7 7	8 0	8 3	9 4	9 6	9 7
		1.6115 - RING SET, PISTON (CONT'D)												
	5149942	RING SET		AR				AR					AR	AR
	5198902	RING SET			AR	AR			AR					
	5198901	RING SET (STANDARD TURBO)	AR				AR					AR		
		1.6120 - RING, PISTON COMPRESSION												
IA	5103382	RING (FIRE RING)			1	1			1	1	1	1		
IA	8923328	RING (FIRE RING)	1	1			1	1					1	1
IA	5116184	RING (CHROMED) (2ND, 3RD AND 4TH)	3	3	1	1	3	3	1	3	1	3	3	3
IA	5127147	* RING (CAST IRON) (3RD AND 4TH)			2	2		AR	2		2			
		* OPTIONAL FOR SERVICE-USE FOR LOWER TWO COMPRESSION GROOVES ONLY FOR TYPE 68.												
		1.6130 - RING, PISTON OIL CONTROL												
		AN OIL CONTROL RING SET CONSISTS OF RINGS FOR ONE (1) CYLINDER. AN OIL CONTROL RING CONSISTS OF TWO (2) SCR APERS AND ONE (1) EXPANDER.												
IA	5195933	RING (UPPER AND LOWER GROOVE)		2	2	2		2	2	2	2		2	2
IA	5198092	RING SET	1				1					1		
		1.6140 - PIN, PISTON												
IA	5116189	PIN	1	1	1	1	1	1	1	1	1	1	1	1
		1.6145 - BUSHING, PISTON PIN												
IA	5116181	BUSHING (1.6040)	2	2	2	2	2	2	2	2	2	2	2	2
		1.6150 - RETAINER, PISTON PIN												
IA	5108131	RETAINER	2	2	2	2	2	2	2	2	2	2	2	2
		1.6180 - LINER, CYLINDER												
IA	5132803	LINER (STANDARD)	1	1	1	1	1	1	1	1	1	1	1	1
IA	5101016	LINER (.010" O.S., O.D.)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
IA	5149944	+ LINER (.020" O.S., O.D.)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		+ USED WITH 5149945 SEAL.												
		1.6182 - CYLINDER KIT												
		A CYLINDER KIT CONSISTS OF ITEMS IN 1.6110, 1.6120, 1.6140, 1.6150, 1.6180 AND 1.6190 FOR ONE (1) CYLINDER.												
	5198903	CYLINDER KIT, 2,3,4,6V53 (STD., 17:1 RATIO)									AR			
	5198899	CYLINDER KIT, 3,4,6,8V53 ("N" ENGINES)		AR				AR					AR	AR
	5197341	# CYLINDER KIT, 4,6V53 (17.5:1 RATIO)										AR		
	5199116	CYLINDER KIT, 6V53 (21:1 RATIO)	AR				AR							

1.6000 CONNECTING ROD AND PISTON

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 3	6 4	6 5	6 6	6 7	6 8	7 7	8 0	8 3	9 4	9 6	9 7
	1.6182	- CYLINDER KIT (CONT'D)												
	5198904	CYLINDER KIT, 3,4,6V53 (21:1, DEEP BOWL)			AR	AR			AR					
	5198905	CYLINDER KIT, 3,4-53 (23:1, DEEP BOWL) # NOT SERVICED, REPLACED BY 5149315 CYLINDER KIT.								AR				
	1.6190	- SEAL, CYLINDER LINER												
6A	5121256	SEAL	2	2	2	2	2	2	2	2	2	2	2	2
6A	5149945	SEAL, .020" O.S., O.D.	2	2	2	2	2	2	2	2	2	2	2	2

1.6000 CONNECTING ROD AND PISTON

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	98	110	118	172	176	180	181	182	183	194	204	205	206	207
1.6001 - CONNECTING ROD ASSY.																
QUANTITIES SHOWN ARE PER CYLINDER. A ROD ASSY. INCLUDES CAP AND ORIFICE WHICH ARE NOT SOLD SEPARATELY, PLUS ITEMS IN 1.6001, 1.6010 AND 1.6040. VAPOR BLASTED BUSHINGS (TYPES 110, 172, 176, 180, 181, 182, 194, 204, 205, 206 AND 207) ARE NOT SERVICED SE PARATELY.																
5A	5121262	ROD ASSY., 3,4-53	1		1						1					
5A	5140949	ROD ASSY., 6V53, 8V53 (TURBO)		1			1		1	1						
5A	5103817	# ROD ASSY., 3,4-53 (TURBO)				1		1				1		1		
5A	5108178	ROD ASSY., 4-53 (TURBO)													1	1
5A	5106977	ROD ASSY., 6V53 (TURBO)											1			
5A	5197852	BOLT, 3/8"-24X2.76"L.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5A	839103	NUT, 3/8"-24	2	2	2	2	2	2	2	2	2	2	2	2	2	2
# NOT SERVICED, USE 5108178 ROD ASSY. AND TO INSURE INTERCHANGEABILITY USE (1) 8920717 (18.7:1) PISTON ASSY. (1) 5106902 PIN AND (2) 5108175 RETAINERS.																
1.6010 - NOZZLE, CONNECTING ROD SPRAY																
A	5150140	NOZZLE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.6020 - ORIFICE, CONNECTING ROD																
	5198179	ORIFICE, 5/16"X7/16"	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.6040 - BUSHING, CONNECTING ROD PISTON PIN																
A	5116181	BUSHING	2		2						2					
1.6100 - SHELL, CONNECTING ROD BEARING																
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER SHELL.																
	5149452	SHELL SET (STANDARD)	AR		AR	AR		AR			AR	AR	AR	AR	AR	AR
	5149453	SHELL SET (.002" U.S.)	AR		AR	AR		AR			AR	AR	AR	AR	AR	AR
	5149454	SHELL SET (.010" U.S.)	AR		AR	AR		AR			AR	AR	AR	AR	AR	AR
	5149455	SHELL SET (.020" U.S.)	AR		AR	AR		AR			AR	AR	AR	AR	AR	AR
	5149456	SHELL SET (.030" U.S.)				AR		AR				AR		AR	AR	AR
	5197975	SHELL SET (STANDARD)		AR			AR		AR	AR			AR			
	5197976	SHELL SET (.002" U.S.)		AR			AR		AR	AR			AR			
	5197977	SHELL SET (.010" U.S.)		AR			AR		AR	AR			AR			
	5197978	SHELL SET (.020" U.S.)		AR			AR		AR	AR			AR			
	5197979	SHELL SET (.030" U.S.)		AR			AR		AR	AR			AR			

DETROIT DIESEL

53 MPC ENGINES

1.6000 CONNECTING ROD AND PISTON

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	98	110	118	172	176	180	181	182	183	194	204	205	206	207
1.6110 - PISTON KIT																
A PISTON KIT INCLUDES BUSHING IN 1.6145 AND RETAINER IN 1.6150. VAPOR BLASTED BUSHINGS (TYPES 110, 172, 176, 180, 181, 182, 194, 204, 205, 206 AND 207) ARE NOT SERVICED SEPARATELY.																
6A	5198877	PISTON KIT, 3, 4-53 ("N" ENGINE)	1		1											
6A	5198572	PISTON KIT, 6V, 8V53 (TURBO, VAP BLAST)		1					1	1				1		
6A	8920717	PISTON KIT, 4, 6V53 (TURBO, VAP BLAST)											1		1	1
6A	5104673	PISTON KIT, 4-53, 6V53 (TURBO, VAP BLAST)					1	1				1				
6A	5195931	PISTON KIT, 3-53 (STANDARD)									1					
6A	5103921	# PISTON KIT, 4-53 (TURBO, VAP BLAST) # OBSOLETE.				1										
1.6115 - RING SET, PISTON																
A PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) CYLINDER.																
	5149942	RING SET	AR		AR								AR	AR		AR
	5149359	RING SET		AR		AR	AR	AR	AR						AR	AR
	5149314	RING SET							AR		AR					
	5198901	RING SET									AR					
	5198902	RING SET										AR				
1.6120 - RING, PISTON COMPRESSION																
6A	8923328	RING, FIRE RING	1		1											
6A	5103382	RING, FIRE RING		1		1	1	1	1	1	1	1	1	1	1	1
6A	5116184	RING (CHROMED)(2ND, 3RD AND 4TH)	3	3	3	3	3	3	3	3	1	3	3	3	3	3
	5127147	RING (CAST IRON) 3RD AND 4TH									2					
1.6130 - RING, PISTON OIL CONTROL																
AN OIL CONTROL RING SET CONSISTS OF RINGS FOR ONE (1) CYLINDER. AN OIL CONTROL RING CONSISTS OF TWO (2) SCRAPERS AND ONE (1) EXPANDER.																
	5149313	RING SET		1					1					1		
	5198092	RING SET								1						
	5149378	RING SET				1	1	1				1	1		1	1
	5149610	RING SET (LOWER GROOVE)				1	1	1				1	1		1	1
	5195933	RING SET	2		2						2					
1.6140 - PIN, PISTON																
6A	5104651	PIN (DRILLED)		1		1	1	1	1	1		1		1		
	5116189	PIN	1		1						1					
	5106902	PIN (1.5030"-1.5025" DIA.)											1		1	1
1.6145 - BUSHING, PISTON PIN																
6A	5116181	BUSHING (1.6040)	2		2						2					

1.6000 CONNECTING ROD AND PISTON

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	9 8	1 1 0	1 1 8	1 7 2	1 7 6	1 8 0	1 8 1	1 8 2	1 8 3	1 9 4	2 0 4	2 0 5	2 0 6	2 0 7
1.6150 - RETAINER, PISTON PIN																
3A	5108131	RETAINER	2	2	2	2	2	2	2	2	2	2		2		
3A	5108175	RETAINER											2		2	2
1.6180 - LINER, CYLINDER																
3A	5132803	LINER (STANDARD)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3A	5101016	LINER (.010" O.S., O.D.)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
3A	5149944	+ LINER (.020" O.S., O.D.) + USE WITH 5149945 SEAL.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1.6182 - CYLINDER KIT																
A CYLINDER KIT CONSISTS OF ITEMS IN 1.6110, 1.6120, 1.6140, 1.6150, 1.6180, AND 1.6190 FOR ONE (1) CYLINDER A KIT FOR TYPE 183 IS NOT AVAILABLE.																
	5198899	CYLINDER KIT, 3,4-53 ("N" ENGINES)	AR		AR											
	5149315	CYLINDER KIT (5083-5399)		AR					AR						AR	
	5149360	CYLINDER KIT, 3, 4-53 (TURBO)					AR	AR				AR				
	5149734	CYLINDER KIT (TURBO)											AR		AR	AR
1.6190 - SEAL, CYLINDER LINER																
3A	5121256	SEAL	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3A	5149945	SEAL, .020" O.S., O.D.	2	2	2	2	2	2	2	2	2	2	2	2	2	2

1.6000 CONNECTING ROD AND PISTON

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	2 0 8	2 3 6	2 3 8	2 3 9	2 4 0	2 4 1	2 4 2	2 4 3	2 4 4	2 4 5	2 4 9
1.6001 - CONNECTING ROD ASSY.													
QUANTITIES SHOWN ARE PER CYLINDER. A ROD ASSY. INCLUDES CAP AND ORIFICE WHICH ARE NOT SOLD SEPARATELY, PLUS ITEMS IN 1.6001, 1.6010 AND 1.6040. VAPOR BLASTED BUSHINGS (TYPE 208, 242, 243 AND 244) ARE NOT SERVICED SEPARATELY.													
6A	5108178	ROD ASSY., 4-53 (TURBO)	1								1	1	
6A	5121262	ROD ASSY., 3, 4-53		1			1	1					
6A	5133109	ROD ASSY., 6V53			1	1							1
6A	5140949	ROD ASSY., 6V53							1				
6A	5106977	ROD ASSY., 6V53								1			
6A	5197852	BOLT, 3/8"-24X2.76" L.	2	2	2	2	2	2	2	2	2	2	2
6A	839103	NUT, 3/8"-24	2	2	2	2	2	2	2	2	2	2	2
1.6010 - NOZZLE, CONNECTING ROD SPRAY													
6A	5150140	NOZZLE	1	1	1	1	1	1	1	1	1	1	1
1.6020 - ORIFICE, CONNECTING ROD													
	5198179	ORIFICE, 5/16"X7/16"	1	1	1	1	1	1	1	1	1	1	1
1.6040 - BUSHING, CONNECTING ROD PISTON PIN													
6A	5116181	BUSHING		2	2	2	2	2	2				2
1.6100 - SHELL, CONNECTING ROD BEARING													
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER SHELL.													
	5149452	SHELL SET (STANDARD 3, 4-53) (TURBO)	AR	AR			AR	AR			AR	AR	
	5149453	SHELL SET (.002" U.S.)	AR	AR			AR	AR			AR	AR	
	5149454	SHELL SET (.010" U.S.)	AR	AR			AR	AR			AR	AR	
	5149455	SHELL SET (.020" U.S.)	AR	AR			AR	AR			AR	AR	
	5149456	SHELL SET (.030" U.S.)	AR	AR			AR	AR			AR	AR	
	5197975	SHELL SET (STANDARD)			AR	AR			AR	AR			AR
	5197976	SHELL SET (.002" U.S.)			AR	AR			AR	AR			AR
	5197977	SHELL SET (.010" U.S.)			AR	AR			AR	AR			AR
	5197978	SHELL SET (.020" U.S.)			AR	AR			AR	AR			AR
	5197979	SHELL SET (.030" U.S.)			AR	AR			AR	AR			AR
1.6110 - PISTON KIT													
A PISTON KIT INCLUDES BUSHING IN 1.6145 AND RETAINER IN 1.6150. VAPOR BLASTED BUSHINGS (TYPE 208, 242, 243 AND 244) ARE NOT SERVICED SEPARATELY.													
6A	8920718	+ PISTON KIT, 4-53 (TURBO, VAP BLAST)	1									1	
6A	5198877	PISTON KIT, 3, 4, 6V53 ("N" ENGINE)		1	1	1	1	1					1
6A	5198572	PISTON KIT, 4, 6V53 (TURBO, VAP BLAST)							1				

1.6000 CONNECTING ROD AND PISTON

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	2 0 8	2 3 6	2 3 8	2 3 9	2 4 0	2 4 1	2 4 2	2 4 3	2 4 4	2 4 5	2 4 9
1.6110 - PISTON KIT (CONT'D)													
A	8920717	PISTON KIT, 4, 6V53 (TURBO, VAP BLAST) + NOT SERVICED. USE 5198572 PISTON KIT AND (1) 5140949 ROD ASSY.								1	1		
1.6115 - RING SET, PISTON													
A PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) CYLINDER.													
	5149314	RING SET	AR										
	5198902	RING SET		AR									AR
	23501520	RING SET			AR			AR					
1.6120 - RING, PISTON COMPRESSION													
A	5103382	RING (FIRE RING)		1									
A	8923328	RING (FIRE RING)	1		1			1					1
A	5105327	# RING (FIRE RING) (PLASMA COATING)				1	1		1	1	1	1	
A	5116184	RING (CHROMED) (2ND, 3RD AND 4TH)	3	1	3	3	3	3	3	3	3	3	1
	5127147	RING (CAST IRON) 3RD AND 4TH # NOT SERVICED, USE 5103382 FOR TURBO ENGINES OR 8923328 FOR NON-TURBO ENGINES.		2									2
1.6130 - RING, PISTON OIL CONTROL													
AN OIL CONTROL RING SET CONSISTS OF RINGS FOR ONE (1) CYLINDER. AN OIL CONTROL RING CONSISTS OF TWO (2) SCR APERS AND ONE (1) EXPANDER.													
	5149313	RING SET	1						1			1	
	5198092	RING SET				1	1						
	5149378	RING SET								1	1		
	5109970	RING SET (UPPER GROOVE)				1	1						
	5195933	RING SET (LOWER OR UPPER GROOVE)		2	2	1	1	2	1			1	2
	5149610	RING SET (LOWER GROOVE)								1	1		
1.6140 - PIN, PISTON													
A	5106902	PIN (1.5030"-1.5025" DIA.)	1							1	1	1	
A	5116189	PIN		1	1	1	1	1					1
A	5104651	PIN, LUBE DRILLED							1				
1.6145 - BUSHING, PISTON PIN													
A	5116181	BUSHING (1.6040)		2	2	2	2	2					2
1.6150 - RETAINER, PISTON PIN													
A	5108175	RETAINER	2							2	2	2	
A	5108131	RETAINER		2	2	2	2	2	2				2

1.6000 CONNECTING ROD AND PISTON

			TYPES										
PART ..FIG ... NUMBER NAME AND DESCRIPTION			2 0 8	2 3 6	2 3 8	2 3 9	2 4 0	2 4 1	2 4 2	2 4 3	2 4 4	2 4 5	2 4 9
1.6180 - LINER, CYLINDER													
6A	5132803	LINER (STANDARD)	1	1	1	1	1	1	1	1	1	1	1
6A	5101016	LINER (.010" O.S., O.D.)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
6A	5149944	+ LINER (.020" O.S., O.D.)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		+ USE WITH 5149945 SEAL.											
1.6182 - CYLINDER KIT													
		A CYLINDER KIT CONSISTS OF ITEMS IN 1.6110, 1.6120, 1.6140, 1.6150, 1.6180 AND 1.6190 FOR ONE (1) CYLINDER.											
	5149735	@ CYLINDER KIT (TURBO)	AR										
	5198904	CYLINDER KIT (21:1 COMP)		AR									AR
	5198899	CYLINDER KIT (21:1 COMP, "N" ENGINE)			AR			AR					
		@ NOT SERVICED. USE 5149315 KIT AND (1) 5140949 ROD ASSY.											
1.6190 - SEAL, CYLINDER LINER													
6A	5121256	SEAL	2	2	2	2	2	2	2	2	2	2	2
6A	5149945	SEAL, .020" O.S., O.D.	2	2	2	2	2	2	2	2	2	2	2

1.6000 CONNECTING ROD AND PISTON

PART			TYPES																
FIG	NUMBER	NAME AND DESCRIPTION	2 6 8	2 6 9	2 7 0	2 8 8	3 6 1												
1.6001 - CONNECTING ROD ASSY.																			
QUANTITIES SHOWN ARE PER CYLINDER.																			
A CROSSHEAD ROD ASSY. INCLUDES																			
ITEMS IN 1.6001.																			
A TRUNK PISTON ROD ASSY. INCLUDES																			
CAP AND ORIFICE WHICH ARE NOT SOLD																			
SEPARATELY, PLUS ITEMS IN 1.6001,																			
1.6010 AND 1.6040.																			
B	8924004	ROD ASSY. (CROSSHEAD) 3, 4-53	1																
B	8924003	ROD ASSY. (CROSSHEAD) 6V53		1	1	1													
A	5121262	ROD ASSY. (TRUNK) 4-53						1											
A,B	5197852	BOLT, 3/8"-24X2.76"	2	2	2	2		2											
A,B	839103	NUT, 3/8"-24	2	2	2	2		2											
1.6010 - NOZZLE, CONNECTING ROD SPRAY																			
A	5150140	NOZZLE						1											
1.6020 - ORIFICE, CONNECTING ROD																			
	5198179	ORIFICE, 5/16"X7/16"						1											
1.6040 - BUSHING, CONNECTING ROD BEARING																			
A	5116181	BUSHING						2											
1.6100 - SHELL, CONNECTING ROD BEARING																			
A SHELL SET CONSISTS OF ONE UPPER																			
AND ONE LOWER SHELL.																			
	5149452	SHELL SET (STANDARD)	AR					AR											
	5149453	SHELL SET (.002" U.S.)	AR					AR											
	5149454	SHELL SET (.010" U.S.)	AR					AR											
	5149455	SHELL SET (.020" U.S.)	AR					AR											
	5149456	SHELL SET (.030" U.S.)	AR					AR											
	5197975	SHELL SET (STANDARD)		AR	AR	AR													
	5197976	SHELL SET (.002" U.S.)		AR	AR	AR													
	5197977	SHELL SET (.010" U.S.)		AR	AR	AR													
	5197978	SHELL SET (.020" U.S.)		AR	AR	AR													
	5197979	SHELL SET (.030" U.S.)		AR	AR	AR													
1.6106 - RING, CROSSHEAD PISTON SEAL																			
3	8924733	RING, SEAL	1	1	1	1													
1.6110 - PISTON KIT																			
A DOME KIT CONSISTS OF ITEMS IN																			
1.6106, 1.6110, 1.6140, 1.6142 AND																			
1.6150.																			
A PISTON KIT INCLUDES BUSHING IN																			
1.6145 AND RETAINER IN 1.6150.																			
	8927225	DOMEST KIT	1	1	1	1													
	5198877	PISTON KIT, 4-53						1											
	8924000	DOMEST PISTON	1	1	1	1													
	8924002	SKIRT PISTON	1	1	1	1													

1.6000 CONNECTING ROD AND PISTON

PART			TYPES														
FIG	NUMBER	NAME AND DESCRIPTION	2 6 8	2 6 9	2 7 0	2 8 8	3 6 1										
		1.6115 - RING SET, PISTON															
		CONSISTS OF SUFFICIENT RINGS FOR (1) PISTON.															
	8927223	RING SET	AR	AR	AR												
	NPN	RING SET (CROSSHEAD PISTON)				AR											
	23501520	RING SET (NON-TURBO)					AR										
		1.6120 - RING, PISTON COMPRESSION															
6B	8925780	RING, FIRE (1 BLUE MARK)	1	1	1	1											
6A	8923328	RING, FIRE					1										
6A,B	8925779	RING (MOLY)	2	2	2	2	3										
		1.6130 - RING, PISTON OIL CONTROL															
		AN OIL CONTROL RING SET CONSISTS OF SCRAPERS AND EXPANDERS FOR ONE (1) CYLINDER.															
6B	8927224	RING SET	1	1	1												
6B	NPN	RING SET (CROSSHEAD PISTON)				1											
6B	NPN	RING SET (TRUNK PISTON)					1										
		1.6140 - PIN, PISTON															
6B	8924735	PIN, CROSSHEAD PISTON	1	1	1	1											
6A	5116189	PIN, TRUNK PISTON					1										
6B	8924732	SPACER	2	2	2	2											
6B	8924734	BOLT, 3/8"-24X1.88" 12 PT. HD.	2	2	2	2											
		1.6142 - BEARING, PISTON PIN															
6B	8924736	BEARING	1	1	1	1											
		1.6150 - RETAINER, PISTON PIN															
6B	8924731	RETAINER, CROSSHEAD PISTON	2	2	2	2											
6A	5108131	RETAINER, TRUNK PISTON					2										
		1.6180 - LINER, CYLINDER															
6B	8926088	LINER, .74" PORT (STANDARD)	1	1													
6B	8926089	LINER, .74" PORT (.010" O.S. O.D.)	AR	AR													
6B	8926090	+ LINER, .74" PORT (.020" O.S. O.D.)	AR	AR													
6A,B	5132803	LINER, .84" PORT (STANDARD)			1	1	1										
6B	5101016	LINER, .84" PORT (.010" O.S. O.D.)			AR	AR	AR										
6B	5149944	+ LINER, .84" PORT (.020" O.S. O.D.)			AR	AR	AR										
		+ USE WITH 5149945 SEAL.															
		1.6182 - CYLINDER KIT															
		A CYLINDER KIT INCLUDES STANDARD SIZE ITEMS IN 1.6106, 1.6110, 1.6120, 1.6130, 1.6140, 1.6142, 1.6150 AND 1.6180.															

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

TYPES

[illegible]

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	30	31	32	33	34	35	37	49	50	51	53	55
1.7001 - CAMSHAFT ASSY.														
A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.														
7A	5121028	CAMSHAFT ASSY. 2-53 ALL R.H. AND L.H. ENGS.	1						1	1				
7A	5126929	% CAMSHAFT ASSY. 3-53 RB-RC-LA-LD ENG.		1							1			
7A	5126930	@ CAMSHAFT ASSY. 3-53 RA-RD-LB-LC ENG. (5149093)			1								1	
7A	5126931	# CAMSHAFT ASSY. 4-53 LA-LB-LC-LD ENG. (5149097)				1								
7A	5126932	% CAMSHAFT ASSY. 4-53 RA-RB-RC-RD ENG.					1					1		1
7B	5199397	* CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7L)						1						
7B	5199396	* CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7L)						1						
	5151277	PLUG, 1/2" DRIVE	2	2	2	2	2	4	2	2	2	2	2	2
		* USE WITH 5147424 SPRING IN 1.8340.												
		# NOT SERVICED. USE NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY REPLACE 5144019 VALVE SPRING WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES.												
		@ NOT SERVICED. USE NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY RETAIN VALVE SPRING 5116140 ON 2 VALVE ENGINES AND REPLACE 5144019 VALVE SPRING WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES.												
		% MUST BE USED WITH 5144019 VALVE SPRING ON 4 VALVE ENGINES AND 5116140 VALVE SPRING ON 2 VALVE ENGINES.												
1.7010 - BEARING, CAMSHAFT END														
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.														
7A	5198431	BEARING SET (STD., 2-53)	1						1	1				
7A	5198982	BEARING SET (STD. I.D., .010" O.S., O.D.)	AR						AR	AR				
7A	5198468	BEARING SET (.010" U.S. I.D., STD. O.D.)	AR						AR	AR				
7A	5198469	BEARING SET (.020" U.S. I.D., STD. O.D.)	AR						AR	AR				
7A	5198209	BEARING SET (STD. 3-53)		1	1						1		1	
7A	5198980	BEARING SET (STD. I.D., .010" O.S., O.D.)									AR		AR	
7A	5198470	BEARING SET (.010" U.S. I.D., STD. O.D.)		AR	AR						AR		AR	
7A	5198471	BEARING SET (.020" U.S. I.D., STD. O.D.)		AR	AR						AR		AR	
7A	5198984	BEARING SET (STD. 4-53)				1	1					1		1
7A	5198979	BEARING SET (STD. I.D., .010" O.S., O.D.)												
7A	5198978	BEARING SET (.010" U.S. I.D., STD. O.D.)				AR	AR					AR		AR
7A	5198981	BEARING SET (.020" U.S. I.D., STD. O.D.)				AR	AR					AR		AR
7B	5197944	BEARING SET (STD. 6V53)						1						

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 0	3 1	3 2	3 3	3 4	3 5	3 7	4 9	5 0	5 1	5 3	5 5
1.7010 - BEARING, CAMSHAFT END (CONT'D)														
7B	5198983	BEARING SET (STD. I.D., .010" O.S., O.D.)						AR						
7B	5197945	BEARING SET (.010" U.S., I.D., STD., O.D.)						AR						
7B	5197946	BEARING SET (.020" U.S., I.D., STD., O.D.)						AR						
1.7030 - WASHER, CAM AND BALANCE SHAFT END BEARING THRUST														
7A,B	5116198	WASHER	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	9409028	BOLT, 3/8"-16X1" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
1.7060 - SEAL, CAMSHAFT OIL														
7A,B	5106223	SEAL, OIL (FRONT 2, 3, 4, 6V-53)	2	2	2	2	2	2	2	2	2	2	2	2
1.7061 - SLINGER, CAMSHAFT OIL														
7A,B	5134388	+ SLINGER + THRU 2D-23442, 3D-44069, 4D-48900, 6D-41029.	2	2	2	2	2	2	2	2	2	2	2	2
1.7062 - SPACER, CAMSHAFT OIL SEAL														
7A,B	5121071	+ SPACER, .440" THK.	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	5106360	+ SPACER, .465" THK. + THRU 2D-23442, 3D-44069, 4D-48900, 6D-41029. + EFF. WITH 2D-23443, 3D-44070, 4D-48901, 6D-41030.	2	2	2	2	2	2	2	2	2	2	2	2
1.7080 - SHAFT, BALANCE														
7A	5121072	SHAFT, 2-53	1						1	1				
7A	5121073	SHAFT, 3-53		1	1						1		1	
7A	5121074	SHAFT, 4-53				1	1					1		1
1.7130 - PULLEY, FRONT BALANCE														
7A	5121107	* PULLEY, 2-53	2							1				
7A	8925944	PULLEY, 3-53		2	2						2		2	
7A	8925946	PULLEY, 4-53				2	2					2		
7B	8925945	PULLEY, 6V-53						2						
7A	8925946	PULLEY, 4-53 (ON BALANCE SHAFT)												1
7A,B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	2	2	2	2	2	2		1	2	2	2	1
7A,B	5150087	NUT, 1 1/8"-18 SPL. (1.7140) * NOT SERVICED. USE 8925945 PULLEY AND ONE (1) EACH OF 5127077 WASHER, 5187641 WASHER, 103321 LOCKWASHER, 1 86622 BOLT AND SHEET 1 OF SD-163. CAUTION: MODIFICATION FROM SHEET ONE (1) OF SD-163 COULD CREATE A CLEARAN CE PROBLEM ON SOME APPLICATIONS.	2	2	2	2	2	2		1	2	2	2	1

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 0	3 1	3 2	3 3	3 4	3 5	3 7	4 9	5 0	5 1	5 3	5 5
1.7140 - WEIGHT, FRONT BALANCE														
10C	5121107	# WEIGHT, 2-53							2	1				
	5109504	WEIGHT, 4-53 (ON CAMSHAFT)												1
7A	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)							2	1				1
7A	5150087	NUT, 1 1/8"-18							2	1				1
		# NOT SERVICED. USE 8925945 PULLEY AND ONE (1) EACH OF 5127077 WASHER, 5187641 WASHER, 103321 LOCKWASHER, 1 86622 BOLT AND SHEET 1 OF SD-163. CAUTION: MODIFICATION FROM SHEET ONE (1) OF SD-163 COULD CREATE A CLEARAN CE PROBLEM ON SOME APPLICATIONS.												
1.7190 - WEIGHT, REAR BALANCE														
7C	5119277	WEIGHT (CRESCENT SHAPE, 2 HOLES)		2	2	2	2							
7C	5119278	* WEIGHT (INNER) (.2242" THICK, 5 HOLES)				2	2					2	2	2
7C	5109874	* WEIGHT (.1345" THICK, 3 HOLES)									2	2	2	2
7C	5126197	@ WEIGHT (.1196" THICK, 3 HOLES)									2	2	2	2
7C	5126198	@ WEIGHT (OUTER) (.2391" THICK, 3 HOLES)										2		2
7C	8927580	BOLT, 3/8"-16X1.015" (USED AS REAR WEIGHTS) (12.9001)	4						4	4				
7C	9409028	# BOLT, 3/8"-16X1" (12.9001)		4	4									
7C	9409215	BOLT, 3/8"-16X1 1/4" (12.9001)				4	4							
7C	9409034	BOLT, 3/8"-24X7/8" (12.9001)									4		4	
7C	9409035	BOLT, 3/8"-24X1" (12.9001)										4		4
		* EFFECTIVE WITH 3D-5209, 4D-6878 IN TYPES 50, 51, 53 AND 55. MUST BE REPLACED AS SET ON 4 CYLINDER UNITS T HRU 4D-6877 IN THESE TYPES.												
		@ THRU 3D-5208, 4D-6877 NOT SERVICED. FOR REPLACEMENT USE 5109874 AND 5119278.												
		# THRU 8D-127.												
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT														
7A,C	5133387	* GEAR (CAMSHAFT LB-LC- RA-RD, BALANCE LA-LD-RB-RC ENG.) (R.H. HELIX; 97 TEETH) (5107072)	1	1	1	1	1		1	1	1	1	1	1
7A,C	5133388	* GEAR (L.H. HELIX) (CAMSHAFT LA-LD- RB-RC, BALANCE LB-LC-RA-RD ENG.) (L.H. HELIX; 97 TEETH) (5107073)	1	1	1	1	1		1	1	1	1	1	1
7B	5133387	* GEAR, 6V-53 (R. BANK CAMSHAFT R.H. ENG. L. BANK CAMSHAFT L.H. ENG.) (R.H. HELIX; 97 TEETH) (51 07072)						1						
7B	5133388	* GEAR, 6V-53 (L. BANK CAMSHAFT R.H. ENG. R. BANK CAMSHAFT L.H. ENG.) (L.H. HELIX; 97 TEETH) (51 07073)						1						
7A,B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2	2

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	30	31	32	33	34	35	37	49	50	51	53	55
		1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT (CONT'D)												
		* NOT SERVICED, USE PART NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 51 07075, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 510 7076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-5 3) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).												
		1.7202 - SPACER, CAMSHAFT AND BALANCE SHAFT GEAR												
A,B	5121077	SPACER	2	1	1	1	1	2	1	1	1	1	1	1
		1.7207 - RETAINER, CAM AND BALANCE SHAFT GEAR NUT												
A,B	5172734	= RETAINER	2	2	2	2	2	2	2	2				
A,B	181360	= BOLT, 3/8"-24X3/4"(12.9001)	4	4	4	4	4	4	4	4				
A,B	103321	= LOCKWASHER, 3/8"(12.9200)	4	4	4	4	4	4	4	4				
		= NOT REQUIRED IN TYPES 37 AND 49; EFFECTIVE WITH 2D-5554.												
		1.7220 - GEAR ASSY., IDLER												
		A GEAR ASSY. INCLUDES BEARING IN 1.7225.												
C,D	5135227	* GEAR ASSY., 2, 3, 4, 6V-53 (L.H. HELIX; 72 TEETH)	1	1	1	1	1	1	1	1	1	1	1	1
		* NOT SERVICED. USE 5107075 AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107072 RH HELIX, 510 7073 LH HELIX, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V-53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-53) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).												

DETROIT DIESEL

53 MPC ENGINES

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	30	31	32	33	34	35	37	49	50	51	53	55
1.7225 - BEARING, IDLER GEAR														
7F	5196793	BEARING	1	1	1	1	1	1	1	1	1	1	1	1
7F	5132504	WASHER (THRUST)	2	2	2	2	2	2	2	2	2	2	2	2
1.7250 - HUB, IDLER GEAR														
7F	5124458	HUB	1	1	1	1	1	1	1	1	1	1	1	1
7F	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	1	1	1	1	1	1	1	1
1.7260 - SPACER, IDLER GEAR HOLE														
7C	5116220	* SPACER	1	1	1	1	1	1	1	1	1	1	1	1
7C	5157244	* BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	1	1	1	1	1	1	1	1
		* THRU 2D-464 FOR TYPE 37, NOT REQUIRED WITH FLYWHEEL HOUSING HAVING INTEGRAL IDLER GEAR HOLE SPACER.												

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 7	5 8	6 0	6 2	6 4	6 6	7 4	7 5	7 7	7 8	8 5	9 6
1.7001 - CAMSHAFT ASSY.														
A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.														
7A	5121028	CAMSHAFT ASSY. 2-53 ALL L.H. AND R.H. ENGS.		1										
7A	5126929	% CAMSHAFT ASSY. 3-53 RB-RC-LA-LD ENG.	1											1
7A	5126930	# CAMSHAFT ASSY. 3-53 RA-RD-LB-LC ENG. (5149093)							1					
7A	5126932	% CAMSHAFT ASSY. 4-53 RA-RB-RC-RD ENG.									1	1	1	
7B	5126934	= CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7)			1									
7B	5126933	= CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7)			1									
7B	5132505	CAMSHAFT ASSY. 8V-53 R.H. ENG.				2								
7B	5199397	* CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7L)					1	1		1				
7B	5199396	* CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG. R. BANK L.H. ENG. (STAMPED V7L)												
	5151277	PLUG, 1/2" DRIVE = USE WITH 5144019 SPRING IN 1.8340. * USE WITH 5147424 SPRING IN 1.8340. # NOT SERVICED. USE NUMBER IN PARENTHESES, AND TO INSURE INTERCHANGEABILITY RETAIN VALVE SPRING 5116140 ON 2 VALVE ENGINES AND REPLACE 5144019 VALVE SPRING WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES. % MUST BE USED WITH 5144019 VALVE SPRING ON 4 VALVE ENGINES AND 5116140 VALVE SPRING ON 2 VALVE ENGINES.	2	2	4	4	4	4	2	4	2	2	2	2
1.7010 - BEARING, CAMSHAFT END														
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.														
7A	5198431	BEARING SET (STD. 2-53)		1										
7A	5198982	BEARING SET (STD. I.D., .010" O.S., O.D.)		AR										
7A	5198468	BEARING SET (.010" U.S., I.D., STD. O.D.)		AR										
7A	5198469	BEARING SET (.020" U.S., I.D., STD. O.D.)		AR										
7A	5198209	BEARING SET (STD. 3-53)	1						1					1
7A	5198980	BEARING SET (STD. I.D., .010" O.S., O.D.)		AR					AR	AR				AR
7A	5198470	BEARING SET (.010" U.S., I.D., STD. O.D.)		AR					AR	AR				AR
7A	5198471	BEARING SET (.020" U.S., I.D., STD. O.D.)		AR					AR	AR				AR
7A	5198984	BEARING SET (STD. 4-53)									1	1	1	
7A	5198979	BEARING SET (STD. I.D., .010" O.S., O.D.)									AR	AR	AR	AR
7A	5198978	BEARING SET (.010" U.S., I.D., STD. O.D.)									AR	AR	AR	AR
7A	5198981	BEARING SET (.020" U.S., I.D., STD. O.D.)									AR	AR	AR	AR
7B	5197944	BEARING SET (STD. 6V53)			1		1	1		1				

1.7000 CAMSHAFT AND GEAR TRAIN

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			5 7	5 8	6 0	6 2	6 4	6 6	7 4	7 5	7 7	7 8	8 5	9 6
		1.7010 - BEARING, CAMSHAFT END (CONT'D)												
7B	5198983	BEARING SET (STD. I.D., .010" O.S., O.D.)												
7B	5197945	BEARING SET (.010" U.S., I.D., STD., O.D.)			AR		AR	AR		AR				
7B	5197946	BEARING SET (.020" U.S., I.D., STD., O.D.)			AR		AR	AR		AR				
7B	5197930	BEARING SET (STD. 8V53)				1								
7B	5197931	BEARING SET (.010" U.S., I.D., STD., O.D.)				AR								
7B	5197932	BEARING SET (.020" U.S., I.D., STD., O.D.)				AR								
7B	5199006	BEARING SET (STD. I.D., .010" O.S., O.D.)				AR								
		1.7030 - WASHER, CAM AND BALANCE SHAFT END BEARING THRUST												
7A,B	5135812	WASHER	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	5116198	WASHER	4	4	1	4	4	4	4	4	4	4	4	6
7A,B	9409028	BOLT, 3/8"-16X1" (12.9001)			3									
7A,B	9409215	BOLT, 3/8"-16X1 1/4" (12.9001)												
		1.7060 - SEAL, CAMSHAFT OIL												
7A,B	5106223	SEAL, OIL (FRONT 2, 3, 6V-53)	2	2	2		2	2	2	2	2	2	2	2
7B	5134336	SEAL, OIL (FRONT 8V-53)				2								
		1.7061 - SLINGER, CAMSHAFT OIL												
7A,B	5134388	+ SLINGER + THRU 2D-23442, 3D-44069, 4D-48900, 6D-41029.	2	2	2	2	2	2	2	2	2	2	2	2
		1.7062 - SPACER, CAMSHAFT OIL SEAL												
7A,B	5121071	+ SPACER, .440" THK.	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	5106360	* SPACER, .465" THK. + THRU 2D-23442, 3D-44069, 4D-48900, 6D-41029. * EFF. WITH 2D-23443, 3D-44070, 4D-48901, 6D-41030.	2	2	2	2	2	2	2	2	2	2	2	2
		1.7080 - SHAFT, BALANCE												
7A	5121072	SHAFT, 2-53		1										
7A	5121073	SHAFT, 3-53	1						1					1
7A	5121074	SHAFT, 4-53									1	1	1	
		1.7130 - PULLEY, FRONT BALANCE												
7A	5121107	* PULLEY, 2-53		2										
7A	8925946	PULLEY, 4-53									1	1	2	
7A	8925944	PULLEY, 3-53 (ON BALANCE SHAFT)	1						2					1
7B	5133305	PULLEY				2								
7B	8925945	PULLEY, 6V-53 (R. BANK)			2		1	1						
7B	5134241	PULLEY, 6V-53 (L. BANK)					1	1		1				
	5136420	PULLEY, 6V-53 (L. BANK)								1				
	5139572	PULLEY, 4-53									1			
7A,B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	1	2	2	2	2	2	2	2	2	2	2	1
7A,B	5150087	NUT, 1 1/8"-18 (1.7140)	1	2	2	2	2	2	2	2	2	2	2	1

1.7000 CAMSHAFT AND GEAR TRAIN

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	5 7	5 8	6 0	6 2	6 4	6 6	7 4	7 5	7 7	7 8	8 5	9 6
		1.7130 - PULLEY, FRONT BALANCE (CONT'D)												
		* NOT SERVICED. USE 8925945 PULLEY AND ONE (1) EACH OF 5127077 WASHER, 5187641 WASHER, 103321 LOCKWASHER, 1 86622 BOLT AND SHEET 1 OF SD-163. CAUTION: MODIFICATION OF SD-163 COULD CREATE A CLEARANCE PROBLEM ON SOME APPLICATIONS.												
		1.7140 - WEIGHT, FRONT BALANCE												
	5109504	WEIGHT, 4-53 (ON CAMSHAFT)										1		
	8925947	WEIGHT, 3-53 (ON CAMSHAFT)	1											1
A	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	1											1
A	5150087	NUT, 1 1/8"-18	1											1
		1.7190 - WEIGHT, REAR BALANCE												
C	5119277	WEIGHT (CRESCENT SHAPE, 2 HOLES)											2	
C	5119278	* WEIGHT (INNER) (.2242" THICK, 5 HOLES)									2	2	2	
C	5109874	* WEIGHT (.1345" THICK, 3 HOLES)	2								2	2		2
C	5126198	@ WEIGHT (OUTER) (.2391" THICK, 3 HOLES)								2				
C	5132491	+ # WEIGHT				2								
C	8927580	BOLT, 3/8"-16X1.015" (USED AS REAR WEIGHTS) (12.9001)		4										
C	9409028	# BOLT, 3/8"-16X1" (12.9001)				2								
C	9409215	BOLT, 3/8"-16X1 1/4" (12.9001)											4	
C	9409034	BOLT, 3/8"-24X7/8" (12.9001)	4											4
C	9409035	BOLT, 3/8"-24X1" (12.9001)								4	4			
		* EFFECTIVE WITH 3D-5209, 4D-6878 IN TYPES 50, 51, 53 AND 55. MUST BE REPLACED AS SET ON 4 CYLINDER UNITS T HRU 4D-6877 IN THESE TYPES.												
		@ THRU 3D-5208, 4D-6877 NOT SERVICED. FOR REPLACEMENT USE 5109874 AND 5119278.												
		+ NOT SERVICED; REPLACE WITH 5135324 GEAR (R.H. HELIX) OR 5135325 GEAR (L.H. HELIX).												
		# THRU 8D-127.												
		1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT												
A,C	5133387	* GEAR (CAMSHAFT LB-LC- RA-RD, BALANCER LA-LD-RB-RC ENG.) (R.H. HELIX; 97 TEETH) (5107072)	1	1					1	1	1	1	1	1
A,C	5133388	* GEAR (CAMSHAFT LA-LD- RB-RC, BALANCER LB-LC-RA-RD ENG.) (L.H. HELIX; 97 TEETH) (5107073)	1	1					1		1	1	1	1
B	5133387	* GEAR, 6V-53 (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.) (R.H. HELIX; 97 TEETH) (5 107072)			1		1	1	1	1				
B	5133388	* GEAR, 6V-53 L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG. (L.H. HELIX; 97 TEETH) (510 7073)			1		1	1	1					

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 7	5 8	6 0	6 2	6 4	6 6	7 4	7 5	7 7	7 8	8 5	9 6
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT (CONT'D)														
7C	5135325	GEAR, 8V-53 L. BANK, R.H. ENG. (L.H. HELIX; 97 TEETH)				1								
7C	5135324	GEAR, 8V-53 R. BANK, R.H. ENG. (R.H. HELIX; 97 TEETH)				1								
7A,B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2	2
* NOT SERVICED. USE PART NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 51 07075. FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 510 7076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-5 3) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).														
1.7202 - SPACER, CAMSHAFT AND BALANCE SHAFT GEAR														
7A,B	5121077	SPACER	1	1	2	2	2	2	2	2	1	1	1	1
1.7207 - RETAINER, CAM AND BALANCE SHAFT GEAR NUT														
7A,B	5172734	= RETAINER		2	2	2	2	2	2	2			2	
7A,B	181360	= BOLT, 3/8"-24X3/4"(12.9001)		4	4	4	4	4	4	4				
7A	181361	BOLT, 3/8"-24X7/8"(12.9001)											4	
7A,B	103321	= LOCKWASHER, 3/8"(12.9200)		4	4	4	4	4	4	4			4	
= NOT REQUIRED IN TYPES 37 AND 49; EFFECTIVE WITH 2D-5554.														
1.7220 - GEAR ASSY., IDLER														
A GEAR ASSY. INCLUDES BEARING IN 1.7225. AN 8V-53 GEAR ASSY. INCLUDES ITEMS IN 1.7222, 1.7225, 1.7227 AND 1.7250.														
7C,D	5135227	* GEAR ASSY., 2, 3, 4, 6V-53 (L.H. HELIX; 72 TEETH)	1	1	1		1	1	1	1	1	1	1	1
7E	5146899	GEAR ASSY., 8V-53 (L.H. HELIX; 72 TEETH)				1								

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 7	5 8	6 0	6 2	6 4	6 6	7 4	7 5	7 7	7 8	8 5	9 6
		1.7220 - GEAR ASSY., IDLER (CONT'D)												
		* NOT SERVICED. USE 5107075 AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107072 RH HELIX, 510 7073 LH HELIX, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V-53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-53) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).												
		1.7222 - GEAR, IDLER												
G	5132620	GEAR (L.H. HELIX; 72 TEETH)				1								
		1.7225 - BEARING, IDLER GEAR												
F	5196793	BEARING	1	1	1		1	1	1	1	1	1	1	1
G	9433162	BEARING ASSY.				1								
F	5132504	WASHER (THRUST)	2	2	2		2	2	2	2	2	2	2	2
		1.7227 - RETAINER, IDLER GEAR BEARING												
G	5132621	RETAINER				1								
G	5132708	BOLT, 1/4"-28X1/2" NYLON				6								
		1.7250 - HUB, IDLER GEAR												
F	5124458	HUB, 2, 3, 4, 6V-53	1	1	1		1	1	1	1	1	1	1	1
G	5132622	HUB, 8V-53				1								
F	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	1	1	1	1	1	1	1	1
		1.7260 - SPACER, IDLER GEAR HOLE												
C	5116220	* SPACER	1	1	1	1	1	1	1	1	1	1	1	1
C	5157244	* BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	1	1	1	1	1	1	1	1
		* THRU 2D-464 FOR TYPE 37, NOT REQUIRED WITH FLYWHEEL HOUSING HAVING INTEGRAL IDLER GEAR HOLE SPACER.												

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 0 6	1 0 9	1 3 7	1 3 8	1 3 9	1 4 0	1 4 1	1 5 0	1 5 1	1 5 2	1 5 3	1 8 2	1 8 9
1.7001 - CAMSHAFT ASSY.															
• FOR TYPE 188 USE TYPE 191*. A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.															
7A	5149093	CAMSHAFT ASSY. 3-53 RA-RD-LB-LC ENG. (STAMPED V7L)								1		1			
7A	5149091	CAMSHAFT ASSY. 3-53 RB-RC-LA-LD ENG. (STAMPED V7L)									1				1
7A	5149095	* CAMSHAFT ASSY. 4-53 RA-RB-RC-RD ENG. (STAMPED V7L)			1	1	1	1	1				1	1	
7B	5199397	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7L)		1											
7B	5199396	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7L)		1											
7B	5132505	CAMSHAFT ASSY., 8V53 (R.H. ENG.)	2												
	5151277	PLUG, 1/2" DRIVE * MUST BE USED WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES AND 5116140 VALVE SPRING ON 2 VALVE ENGINES.	4	4	2	2	2	2	2	2	2	2	2	2	2
1.7010 - BEARING, CAMSHAFT END															
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.															
7A	5198209	BEARING SET (STD. 3-53)								1	1	1			1
7A	5198980	BEARING SET (STD. I.D., .010" O.S., O.D.)								AR	AR	AR			AR
7A	5198470	BEARING SET (.010" U.S. I.D., STD., O.D.)								AR	AR	AR			AR
7A	5198471	BEARING SET (.020" U.S. I.D. STD. O.D.)								AR	AR	AR			AR
7A	5198984	BEARING SET (STD. 4-53)			1	1	1	1	1				1	1	
7A	5198979	BEARING SET (STD. I.D., .010" O.S., O.D.)			AR	AR	AR	AR	AR				AR	AR	AR
7A	5198978	BEARING SET (.010" U.S. I.D. STD. O.D.)			AR	AR	AR	AR	AR				AR	AR	AR
7A	5198981	BEARING SET (.020" U.S. I.D. STD. O.D.)			AR	AR	AR	AR	AR				AR	AR	AR
7B	5197944	BEARING SET (STD. 6V-53)		1											
7B	5198983	BEARING SET (STD. I.D., .010" O.S., O.D.)		AR											
7B	5197945	BEARING SET (.010" U.S. I.D., STD. O.D.)		AR											
7B	5197946	BEARING SET (.020" U.S. I.D., STD. O.D.)		AR											
7B	5197930	BEARING SET (STD. 8V-53)	1												
7B	5197931	BEARING SET (.010" U.S. I.D. STD. O.D.)	AR												
7B	5197932	BEARING SET (.020" U.S. I.D. STD. O.D.)	AR												
7B	5199006	BEARING SET (STD. I.D., .010" O.S., O.D.)	AR												
1.7030 - WASHER, CAM AND BALANCE SHAFT END BEARING THRUST															
7A,B	5116198	WASHER	2	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	9409028	BOLT, 3/8"-16X1"(12.9001)	4	4	4	4	4	4	4	4	4	4	4	4	4
1.7060 - SEAL, CAMSHAFT OIL															
7A,B	5106223	SEAL, OIL (FRONT 3, 4, 6V-53)		2	2	2	2	2	2	2	2	2	2	2	2
7B	5134336	SEAL, OIL (FRONT 8V-53)	2												

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	1 0 6	1 0 9	1 3 7	1 3 8	1 3 9	1 4 0	1 4 1	1 5 0	1 5 1	1 5 2	1 5 3	1 8 2	1 8 9	1 9 1
1.7061 - SLINGER, CAMSHAFT OIL																
7A,B	5134388	+ SLINGER + THRU 2D-23442, 3D-44069, 4D-48900, 6D-41029.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.7062 - SPACER, CAMSHAFT OIL SEAL																
7A,B	5121071	+ SPACER, .440" THK.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	5106360	+ SPACER, .465" THK. + THRU 2D-23442, 3D-44069, 4D-48900, 6D-41029. + EFF. WITH 2D-23443, 3D-44070, 4D-48901, 6D-41030.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.7080 - SHAFT, BALANCE																
7A	5121074	SHAFT, 4-53			1	1	1	1	1				1	1		
7A	5121073	SHAFT, 3-53								1	1	1			1	
1.7130 - PULLEY, FRONT BALANCE																
7B	5133305	PULLEY, 8V-53	2													
7A	8925946	PULLEY, 4-53			2	2	1	1	2				2	1		
7A	5139572	PULLEY, 4-53						1								
7A	8925944	PULLEY, 3-53								2	1	2			2	
7A	5104254	PULLEY, 4-53												1		
7B	8925945	PULLEY, 6V-53		2												2
7A,B	8926248	KEY, 3/16"X5/8" WOODRUFF (12.9350)	2	2	2	2	2	2	2	2	2	2	2	2	2	4
7A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2	2	2	4
1.7140 - WEIGHT, FRONT BALANCE																
	5109504	WEIGHT, 4-53 (ON CAMSHAFT)					1									
	8925947	WEIGHT, 3-53 (ON CAMSHAFT)									1					
1.7190 - WEIGHT, REAR BALANCE																
7C	5119277	WEIGHT (OUTER) .2391" THICK, 2 HOLES				2			2	2		1	2		1	
7C	5119278	WEIGHT (INNER) .2242" THICK, 5 HOLES	2		2	2	2	2				2	2		1	
7C	5109874	WEIGHT (1.345" THICK, 3 HOLES)			4		4	4				2	1		2	
7C	9409028	BOLT, 3/8"-16X1" (12.9001)								4	2				2	4
7C	9409131	BOLT, 3/8"-24X3/4" (12.9001)								4	2					
7C	9409035	BOLT, 3/8"-24X1" (12.9001)			4		4	4			4			4		
7C	9409215	BOLT, 3/8"-24X1 1/4" (12.9001)				4			4				4			
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT																
7C	5135324	GEAR (R. BANK R.H. ENG.) (R.H. HELIX; 97 TEETH)	1													
7C	5135325	GEAR (L. BANK R.H. ENG.) (L.H. HELIX; 97 TEETH)	1													
	5133387	* GEAR (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.) (R.H. HELIX; 97 TEETH) (5107072)		1	1	1	1	1	1	1	1	2	1	1	1	1

1.7000 CAMSHAFT AND GEAR TRAIN

PART		NAME AND DESCRIPTION	TYPES														
FIG	NUMBER		1 0 6	1 0 9	1 3 7	1 3 8	1 3 9	1 4 0	1 4 1	1 5 0	1 5 1	1 5 2	1 5 3	1 8 2	1 8 9		
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT (CONT'D)																	
	5133388	* GEAR (L. BANK CAMSHAFT, R.H. ENG., R. BANK CAMSHAFT L.H. ENG.) (L.H. HELIX: 97 TEETH) (5107073)		1	1	1	1	1	1	1	2	1	1	1			
7A,B	8926248	KEY, 3/16"x5/8" SPECIAL (12.9350)	2	2	2	2	2	2	2	2	2	2	2	2	2		
7A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2										2		
* NOT SERVICED. USE PART NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 51 07075, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 510 7076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-5 3) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).																	
1.7202 - SPACER, CAMSHAFT AND BALANCE SHAFT GEAR																	
7A,B	5121077	SPACER	2	2	1	1	1	1	1	1	1	1	1	1	1		
1.7207 - RETAINER, CAM AND BALANCE SHAFT GEAR NUT																	
7A,B	5172734	RETAINER	2	2		2			2	3		2	2		2		
7A,B	181360	BOLT, 3/8"-24X3/4" (12.9001)	4	4						4		4			4		
7A,B	181361	BOLT, 3/8"-24X7/8" (12.9001)				4			4			4					
7A,B	103321	LOCKWASHER, 3/8" (12.9200)	4	4		4			4	4		4	4		4		
1.7220 - GEAR ASSY., IDLER																	
A GEAR ASSY. INCLUDES BEARING IN 1.7225. AN 8V-53 GEAR ASSY. INCLUDES ITEMS IN 1.7222, 1.7225, 1.7227 AND 1.7250.																	
7E	5146899	GEAR ASSY., 8V-53 (L.H. HELIX: 72 TEETH)		1													
7E	5135227	* GEAR ASSY., 3, 4, 6V-53 (L.H. HELIX: 72 TEETH)		1	1										1		

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES															
..FIG	NUMBER	NAME AND DESCRIPTION	1 0 6	1 0 9	1 3 7	1 3 8	1 3 9	1 4 0	1 4 1	1 5 0	1 5 1	1 5 2	1 5 3	1 8 2	1 8 9	1 9 1		
	1.7220	GEAR ASSY., IDLER (CONT'D)																
		* NOT SERVICED. USE 5107075 AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107072 RH HELIX, 510 7073 LH HELIX, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V-53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-53) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).																
	1.7222	GEAR, IDLER																
7G	5132620	GEAR (L.H. HELIX; 72 TEETH)	1															
	1.7225	BEARING, IDLER GEAR																
7G	9433162	BEARING ASSY.	1															
7G	5196793	BEARING		1	1	1	1	1	1	1	1	1	1	1	1	1		
7G	5132504	WASHER		2	2	2	2	2	2	2	2	2	2	2	2	2		
	1.7227	RETAINER, IDLER GEAR BEARING																
7G	5132621	RETAINER	1															
7G	5132708	BOLT, 1/4"-28X1/2" NYLON	6															
	1.7250	HUB, IDLER GEAR																
7G	5132622	HUB, 8V-53	1															
	5124458	HUB, 3, 4, 6V-53		1	1	1	1	1	1	1	1	1	1	1	1	1		
7F	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	1.7260	SPACER, IDLER GEAR HOLE																
	5116220	* SPACER				1			1									
	5157244	* BOLT, 3/8"-16X1 3/4" (4.4190)				1			1									
		* NOT REQUIRED IN ANY TYPE WITH FLYWHEEL HOUSING HAVING INTEGRAL IDLER GEAR HOLE SPACER.																

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	200	219	220	221	252	265	266	267	268	269	270	271
1.7001 - CAMSHAFT ASSY.														
A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.														
7A	5126930	# CAMSHAFT ASSY., 3-53 RA-RD-LB-LC ENG. (5149093)	1											
7A	5149095	% CAMSHAFT ASSY., 4-53 RA-RB-RC-RD ENG. (STAMPED V7L)		1								1	1	1
7A	5149091	CAMSHAFT ASSY., 3-53 RB-RC-LA-LD ENG. (STAMPED V7L)			1			1			1			
7A	5149097	CAMSHAFT ASSY., 4-53 LA-LB-LC-LD ENG. (STAMPED V7L)				1								
7A	5149093	CAMSHAFT ASSY., 3-53T RA-RD-LB-LC ENG. (STAMPED V7L)					1			1				
7A	5126929	CAMSHAFT ASSY., 3-53 RB-RC-LA-LD ENG.							1					
	5151277	PLUG, 1/2" DRIVE # NOT SERVICED. USE NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY RETAIN VALVE SPRING 5116140 ON 2 VALVE ENGINES AND REPLACE 5144019 VALVE SPRING WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES. % MUST BE USED WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES AND 5116140 VALVE SPRING ON 2 VALVE ENGINES.	2	2	2	2	2	2	2	2	2	2	2	2
1.7010 - BEARING, CAMSHAFT END														
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.														
7A	5198209	BEARING SET (STD. 3-53)	1		1		1	1	1	1	1	1		
7A	5198980	BEARING SET (STD. I.D., .010" O.S. O.D.)	AR		AR		AR	AR	AR	AR	AR	AR		
7A	5198470	BEARING SET (.010" U.S. I.D., STD. O.D.)	AR		AR		AR	AR	AR	AR	AR	AR		
7A	5198471	BEARING SET (.020" U.S. I.D., STD. O.D.)	AR		AR		AR	AR	AR	AR	AR	AR		
7A	5198984	BEARING SET (STD. 4-53)		1		1							1	1
7A	5198979	BEARING SET (STD. I.D., .010" O.S. O.D.)		AR		AR							AR	AR
7A	5198978	BEARING SET (.010" U.S. I.D., STD. O.D.)		AR		AR							AR	AR
7A	5198981	BEARING SET (.020" U.S. I.D., STD. O.D.)		AR		AR							AR	AR
1.7030 - WASHER, CAM AND BALANCE SHAFT END BEARING THRUST														
7A	5116198	WASHER	2	2	2	2	2	2	2	2	2	2	2	2
7A	9409028	BOLT, 3/8"-16X1" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4
1.7060 - SEAL, CAMSHAFT OIL														
7A,B	5106223	SEAL (FRONT 3, 4, 6V-53)	2	2	2	2	2	2	2	2	2	2	2	2
1.7061 - SLINGER, CAMSHAFT OIL														
7A	5134388	SLINGER	2	2	2	2								

1.7000 CAMSHAFT AND GEAR TRAIN

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	2 0 0	2 1 9	2 2 0	2 2 1	2 5 2	2 6 5	2 6 6	2 6 7	2 6 8	2 6 9	2 7 0	2 7 1
1.7062 - SPACER, CAMSHAFT OIL SEAL														
'A	5121071	SPACER, .440" THK.	2	2	2	2								
'A	5106360	SPACER, .465" THK.					1	2	2	2	2	2	2	2
1.7080 - SHAFT, BALANCE														
'A	5121073	SHAFT, 3-53	1		1		1	1	1	1	1			
'A	5121074	SHAFT, 4-53		1		1						1	1	1
1.7130 - PULLEY, FRONT BALANCE														
'A	8925944	PULLEY, 3-53	2		2		2	2	2	1	1			
'A	8925946	PULLEY, 4-53		2		2						2	2	1
'A	8926248	KEY, 3/16"x5/8" SPECIAL (12.9350)	2	2	2	2	2	2	2	2	2	2	2	2
'A	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2	2
1.7140 - WEIGHT, FRONT BALANCE														
	8925947	WEIGHT, 3-53 (ON CAMSHAFT)									1			
	5109504	WEIGHT, 4-53 (ON CAMSHAFT)												1
1.7190 - WEIGHT, REAR BALANCE														
'A,C	5119277	WEIGHT (ON CAMSHAFT)	2	2	2	2	2	2	2	2		2	2	
'A,C	5119278	WEIGHT (ON CAMSHAFT)		2		2						2	2	2
'A,C	5109874	WEIGHT (ON CAMSHAFT)									2			2
'A,C	9409028	BOLT, 3/8"-16X1" (12.9001)	4		4		4	4	4	4				
'A,C	9409215	BOLT, 3/8"-16X1 1/4" (12.9001)		4		4						4	4	
'A,C	9409034	BOLT, 3/8"-24X7/8" (12.9001)									4			
'A,C	9409035	BOLT, 3/8"-24X1" (12.9001)												4
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT														
'A,C	5133387	* GEAR (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.) (R.H. HELIX; 97 TEETH) (510707 2)	1	1	1	1	1							
'A,C	5133388	* GEAR (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.) (L.H. HELIX; 97 TEETH) (510707 3)	1	1	1	1	1							
'A,C	5107072	GEAR (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.) (R.H. HELIX; 111 TEETH)						1	1	1	1	1	1	1
'A,C	5107073	GEAR (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.) (L.H. HELIX; 111 TEETH)						1	1	1	1	1	1	1
'A	8926248	KEY, 3/16"x5/8" SPECIAL (12.9350)	2	2	2	2	2	2	2	2	2	2	2	2
'A	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2	2

1.7000 CAMSHAFT AND GEAR TRAIN

			TYPES										
PART	FIG	NUMBER	NAME AND DESCRIPTION	2	2	2	2	2	2	2	2	2	2
				0	1	2	2	5	6	6	6	7	7
				0	9	0	1	2	5	6	6	7	1
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT (CONT'D)													
* NOT SERVICED. USE PART NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107075, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-5 3) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).													
1.7202 - SPACER, CAMSHAFT AND BALANCE SHAFT GEAR													
7A	5121077	SPACER		1	1	1	1	1	1	1	1	1	1
1.7207 - RETAINER, CAM AND BALANCE SHAFT GEAR NUT													
7A	5172734	RETAINER		2	2	2	2	2	2	2		2	2
7A	181360	BOLT, 3/8"-24X3/4" (12.9001)		4		4		2	4	4	4		
7A	181361	BOLT, 3/8"-24X7/8" (12.9001)			4		4	2				4	4
7A	103321	LOCKWASHER, 3/8" (12.9200)		4	4	4	4	4	4	4	4	4	4
1.7220 - GEAR ASSY., IDLER													
A GEAR ASSY. INCLUDES BEARING IN 1.7225.													
7C	5135227	* GEAR ASSY. (LH, HELIX; 72 TEETH)		1	1	1	1	1					
7C	5107075	GEAR ASSY. (LH, HELIX; 82 TEETH)							1	1	1	1	1
* NOT SERVICED. USE 5107075 AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107072 RH HELIX, 5107073 LH HELIX, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V-53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-53) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).													
1.7225 - BEARING, IDLER GEAR													
7F	5196793	BEARING		1	1	1	1	1	1	1	1	1	1
7F	5132504	WASHER (THRUST)		2	2	2	2	2	2	2	2	2	2

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	200	219	220	221	252	265	266	267	268	269	270	271
1.7250 - HUB, IDLER GEAR														
F	5124458	HUB	1	1	1	1	1	1	1	1	1	1	1	1
F	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	1	1	1	1	1	1	1	1
1.7260 - SPACER, IDLER GEAR HOLE														
C	5116220	* SPACER	1											
C	5157244	* BOLT, 3/8"-16X1 3/4" (4.4190)	1											
		* NOT REQUIRED IN ANY TYPE WITH FLYWHEEL HOUSING HAVING INTEGRAL IDLER GEAR HOLE SPACER.												

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	2 7 2	2 7 3	2 7 4	2 7 5	2 7 6	2 7 7	2 7 8	2 7 9	2 8 0	2 8 1	2 9 7	2 9 8	2 9 9
1.7001 - CAMSHAFT ASSY.															
A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.															
7A	5126932	% CAMSHAFT ASSY., 4-53 RA-RB-RC-RD ENG.	1												
7A	5149097	CAMSHAFT ASSY., 4-53 LA-LB-LC-LD ENG. (STAMPED V7L)		1											
7A	5149095	CAMSHAFT ASSY., 4-53 RA-RB-RC-RD ENG. (STAMPED V7L)			1	1									
7B	5199397	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7L)					1							1	
7B	5199396	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7L)					1							1	
7B	5126934	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7)						1							1
7B	5126933	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7)							1				1		1
7A	5126929	CAMSHAFT ASSY., 3-53 RB-RC-LA-LD ENG. (STAMPED V7)						1					1		1
7A	5149091	CAMSHAFT ASSY., 3-53 RB-RC-LA-LD ENG. (STAMPED V7L)							1						
7A	5149093	CAMSHAFT ASSY., 3-53 RA-RD-LB-LC ENG. (STAMPED V7L)								1					
	5151277	PLUG, 1/2" DRIVE % MUST BE USED WITH 5144019 VALVE SPRING ON 4 VALVE ENGINES AND 5116140 VALVE SPRING ON 2 VALVE ENGINES.	2	2	2	2	4	4	2	2	2	2	4	4	4
1.7010 - BEARING, CAMSHAFT END															
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.															
7A	5198209	BEARING SET (STD. 3-53)							1	1	1	1			
7A	5198980	BEARING SET (STD. I.D., .010" O.S. O.D.)							AR	AR	AR	AR			
7A	5198470	BEARING SET (.010" U.S. I.D., STD. O.D.)							AR	AR	AR	AR			
7A	5198471	BEARING SET (.020" U.S. I.D., STD. O.D.)							AR	AR	AR	AR			
7A	5198984	BEARING SET (STD. 4-53)	1	1	1	1									
7A	5198979	BEARING SET (STD. I.D., .010" O.S. O.D.)	AR	AR	AR	AR									
7A	5198978	BEARING SET (.010" U.S. I.D., STD. O.D.)	AR	AR	AR	AR									
7A	5198981	BEARING SET (.020" U.S. I.D., STD. O.D.)	AR	AR	AR	AR									
7B	5197944	BEARING SET (STD. 6V-53)					1	1					1	1	1
7B	5198983	BEARING SET (STD. I.D., .010" O.S. O.D.)					AR	AR					AR	AR	AR
7B	5197945	BEARING SET (.010" U.S. I.D., STD. O.D.)					AR	AR					AR	AR	AR
7B	5197946	BEARING SET (.020" U.S. I.D., STD. O.D.)													
1.7030 - WASHER, CAM AND BALANCE SHAFT END BEARING THRUST															
7A,B	5116198	WASHER	2	2	2	2	2	2		2	2	2	2	2	2
7A,B	5135812	WASHER							2						
7A,B	9409028	BOLT, 3/8"-16X1" (12.9001)	4	4	4	4	4	4	6	4	4	4	4	4	4

1.7000 CAMSHAFT AND GEAR TRAIN

			TYPES											
PART			2	2	2	2	2	2	2	2	2	2	2	2
.FIG ... NUMBER ... NAME AND DESCRIPTION			7	7	7	7	7	7	7	8	8	9	9	9
			2	3	4	5	6	7	8	9	0	1	7	8
1.7060 - SEAL, CAMSHAFT OIL														
A,B	5106223	SEAL, OIL (FRONT 3, 4, 6V-53)	2	2	2	2	2	2	2	2	2	2	2	2
1.7062 - SPACER, CAMSHAFT OIL SEAL														
A,B	5106360	SPACER, .465" THK.	2	2	2	2	2	2	2	2	2	2	2	2
A,B	5121071	SPACER, .440" THK.			1									
1.7080 - SHAFT, BALANCE														
A	5121074	SHAFT, 4-53	1	1	1	1								
A	5121073	SHAFT, 3-53							1	1	1	1		
1.7130 - PULLEY, FRONT BALANCE														
A	8925944	PULLEY, 3-53							1	1	2	2		
B	8925945	PULLEY, 6V-53						2					2	2
A,B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)						2	2	2	4	4	2	2
A,B	5150087	NUT, 1 1/8"-18 (1.7140)						2	2	2	4	4	2	2
1.7140 - WEIGHT, FRONT BALANCE														
	8925947	WEIGHT, 3-53 (ON CAMSHAFT)							1	1				
1.7190 - WEIGHT, REAR BALANCE														
A	5109874	WEIGHT (.1345" THICK, 3 HOLES)							2	2				
A	5119277	WEIGHT (.2391" THICK, 2 HOLES)									2	2		
A	9409034	BOLT, 3/8"-24X7/8" (12.9001)							4	4				
A	9409028	BOLT, 3/8"-16X1" (12.9001)									4	4		
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT														
A,B	5107072	GEAR (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.) (R.H. HELIX; 111 TEETH)	1	1	1	1	1	1	1	1	1	1		1
A,B	5107073	GEAR (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.) (L.H. HELIX; 111 TEETH)	1	1	1	1	1	1	1	1	1	1		1
B	5133387	* GEAR (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.) (R.H. HELIX; 97 TEETH) (5107072)											1	
B	5133388	* GEAR (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.) (L.H. HELIX; 97 TEETH) (5107073)												
A,B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	2	2	2	2	2	2	2	2			1	2
A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2			2	2

1.7000 CAMSHAFT AND GEAR TRAIN

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	2 7 2	2 7 3	2 7 4	2 7 5	2 7 6	2 7 7	2 7 8	2 7 9	2 8 0	2 8 1	2 9 7	2 9 8	2 9 9
	1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT (CONT'D)													
		* NOT SERVICED. USE PART NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107075, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-5 3) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).													
	1.7202	SPACER, CAMSHAFT AND BALANCE SHAFT GEAR													
7A,B	5121077	SPACER	1	1		1	2	2	1	1	1	1	2	2	2
	1.7207	RETAINER, CAM AND BALANCE SHAFT GEAR NUT													
7A,B	5172734	RETAINER	2	2			2				2	2	2	2	2
7A	181360	BOLT, 3/8"-24X3/4" (12.9001)										4			4
7A,B	181361	BOLT, 3/8"-24X7/8" (12.9001)	4	4			4				4	4	4	4	4
7A,B	103321	LOCKWASHER, 3/8" (12.9200)	4	4			4				4	4	4	4	4
	1.7220	GEAR ASSY., IDLER													
		INCLUDES BEARING IN 1.7225.													
7C	5107075	GEAR ASSY. (L.H. HELIX; 82 TEETH)	1	1	1	1	1	1	1	1	1	1		1	1
	5135227	* GEAR ASSY. (L.H. HELIX; 72 TEETH)											1		
		* NOT SERVICED. USE 5107075 AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107072 RH HELIX, 5107073 LH HELIX, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107075 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V-53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-53) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).													
	1.7225	BEARING, IDLER GEAR													
7F	5196793	BEARING	1	1	1	1	1	1	1	1	1	1	1	1	1
7F	5132504	WASHER	2	2	2	2	2	2	2	2	2	2	2	2	2

TYPES

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1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 0 2	3 1 0	3 1 1	3 1 5	3 8 7	4 0 1	4 1 4	4 1 5	4 2 6	4 2 7	4 3 3	4 6 6	4 7 0
1.7001 - CAMSHAFT ASSY.															
● FOR TYPE 382 USE TYPE 265.* A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.															
7B	5199397	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG., L. BANK L.H. ENG. (STAMPED V7L)	1	1		1			1						
7B	5199396	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG., R. BANK L.H. ENG. (STAMPED V7L)	1	1		1			1						
7A	5149095	% CAMSHAFT ASSY., 4-53 RA-RB-RC-RD ENG. (STAMPED V7L)				1						1			
7A	5149093	CAMSHAFT ASSY., 3-53 RA-RD-LB-LC ENG. (STAMPED V7L)					1			1					
7B	5126934	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG., L. BANK L.H. ENG. (STAMPED V7)						1			1		1		
7B	5126933	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG., R. BANK L.H. ENG. (STAMPED V7)						1			1		1		
7A	8927164	CAMSHAFT ASSY., 3-53 RA, RD, LB, LC ENG. (STAMPED V7L)							1					1	
7A	8927165	CAMSHAFT ASSY., 4-53 RA, RB, RC, RD ENG. (STAMPED V7L)													1
7A,B	5151277	PLUG, 1/2" DRIVE % MUST BE USED WITH 5147424 VALVE SPRING ON 4 VALVE ENGINES AND 5116140 VALVE SPRING ON 2 VALVE ENGINES.	4	4	2	4	2	4	4	2	4	2	4	2	1 2
1.7010 - BEARING, CAMSHAFT END															
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.															
7B	5197944	BEARING SET (STD. 6V-53)	1	1		1		1	1		1		1		
7B	5198983	BEARING SET (STD. I.D., .010" O.S. O.D.)	AR	AR		AR		AR	AR		AR		AR		
7B	5197945	BEARING SET (.010" U.S. I.D., STD. O.D.)	AR	AR		AR		AR	AR		AR		AR		
7B	5197946	BEARING SET (.020" U.S. I.D., STD. O.D.)	AR	AR		AR		AR	AR		AR		AR		
7A	5198984	BEARING SET (STD. 4-53)			1							1			1
7A	5198979	BEARING SET (STD. I.D. .010" O.S. O.D.)			AR							AR			AR
7A	5198978	BEARING SET (.010" U.S. I.D., STD. O.D.)			AR							AR			AR
7A	5198981	BEARING SET (.020" U.S. I.D., STD. O.D.)			AR							AR			AR
7A	5198209	BEARING SET (STD. 3-53)					1			1				1	
7A	5198980	BEARING SET (STD. I.D., .010" O.S., O.D.)					AR			AR				AR	
7A	5198470	BEARING SET (.010" U.S., I.D., STD. O.D.)					AR			AR				AR	
7A	5198471	BEARING SET (.020" U.S., I.D., STD. O.D.)					AR			AR				AR	
1.7030 - WASHER, CAM AND BALANCE SHAFT END BEARING THRUST															
7A,B	5116198	WASHER	2	2	2	2	2	2	2	2	2	2	2	2	2
7A,B	9409028	BOLT, 3/8"-16X1" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4	4

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	302	310	311	315	387	401	414	415	426	427	433	466	470	
1.7060 - SEAL, CAMSHAFT OIL																
A,B	5106223	SEAL, OIL (FRONT 3, 4, 6V-53)	2	2	2	2	2	2	2	2	2	2	2	2	2	
1.7062 - SPACER, CAMSHAFT OIL SEAL																
A,B	5106360	SPACER	2	2	2	2	2	2	2	2	2	2	2	2	2	
1.7080 - SHAFT, BALANCE																
A	5121073	SHAFT, 3-53					1		1					1		
A	5121074	SHAFT, 4-53										1			1	
1.7130 - PULLEY, FRONT BALANCE																
3	8925945	PULLEY, 6V-53	2	2		2		2	2		2		1			
A	8925946	PULLEY, 4-53			1							2				
A	8925944	PULLEY, 3-53					2			2						
A	5136420	PULLEY, 6V-53 (9 GROOVE)											1			
A	8925941	PULLEY, 3-53												2		
A	8925943	PULLEY, 4-53													2	
A,B	8926248	KEY, 3/16"X5/8" WOODRUFF (12.9350)	2	2	2	2	2	2	2	2	2	2	2	2	2	
A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2	2	2	
1.7190 - WEIGHT, REAR BALANCE																
A,C	5119277	WEIGHT, 3, 4-53 (ON CAMSHAFT)			2		2		2		2					
A,C	5119278	WEIGHT, 4-53 (ON CAMSHAFT)			2						2				2	
A,C	8926004	WEIGHT, 3, 4-53 (ON CAMSHAFT)												2	2	
A,C	9409215	BOLT, 3/8"-16X1 1/4" (12.9001)			4		4					4			4	
A,C	9409028	BOLT, 3/8"-16X1" (12.9001)								2				4		
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT																
A,B	5133387	* GEAR (R.H. HELIX) (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.-97 TEETH)	1		1	1										
A,B	5133388	* GEAR (L.H. HELIX) (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.-97 TEETH)	1		1	1										
A	5107073	GEAR (L.H. HELIX) (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.-111 TEETH)		1			1	1	1	1	1	1	1		1	
A	5107072	GEAR (R.H. HELIX) (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.-111 TEETH)			1		1	1	1	1	1	1	1		1	
	8924987	GEAR, HARDENED (R.H. HELIX) (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.-111 TEETH)					1	1	1	1	1	1	1		1	
A	8924988	GEAR, HARDENED (L.H. HELIX) (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.-111 TEETH)												1		
A,B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	2	2	2	2	2	2	2	2	2	2	2	1	2	
A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2	2	2	

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 0 2	3 1 0	3 1 1	3 1 5	3 8 7	4 0 1	4 1 4	4 1 5	4 2 6	4 2 7	4 3 3	4 6 6	4 7 0
1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT (CONT'D)															
* NOT SERVICED. USE PART NUMBER IN PARENTHESES AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 51 07075, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 510 7076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V-53), 510708 1 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2- 53) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).															
1.7202 - SPACER, CAMSHAFT AND BALANCE SHAFT GEAR															
7A,B	5121077	SPACER	2	2	1	2	1	2	2	1	2	1	2	1	1
1.7207 - RETAINER, CAM AND BALANCE SHAFT GEAR NUT															
7A,B	5172734	RETAINER	2	2	2	2	2	2	2	2	2	2	2	2	2
7A	181360	BOLT, 3/8"-24X3/4" (12.9001)	4	4		4	4	4	4	2	4		4	2	
7B	181361	BOLT, 3/8"-24X7/8" (12.9001)			4					2		4		2	4
7A,B	103321	LOCKWASHER, 3/8" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4	4
1.7220 - GEAR ASSY., IDLER															
INCLUDES BEARING IN 1.7225.															
	5135227	* GEAR ASSY., 4, 6V-53 (L.H. HELIX; 72 TEETH)	1		1										
	5107075	GEAR ASSY., 3, 4, 6V-53 (L.H. HELIX; 82 TEETH)		1		1	1	1	1	1	1	1	1		1
	8924990	GEAR ASSY., 3-53 HARDENED (L.H. HELIX; 82 TEETH-STAMPED 8924989)												1	
* NOT SERVICED. USE 5107075 AND TO INSURE INTERCHANGEABILITY USE (1) EACH OF 5107071, 5107072 RH HELIX, 510 7073 LH HELIX, FUEL PUMP DRIVE GEAR 5107087 (LH HELIX) OR 5107088 (RH HELIX), GOVERNOR DRIVE GEAR 5107077 (LH), 5107076 (RH) OR 5107508 (RH) (5033-6299), BLOWER ROTOR GEARS 5107083 (RH) AND 5107084 (LH) (4 & 6V-53), 5107081 (RH) AND 5107084 (LH) (4-53), 5107081 (RH) AND 5107082 (LH) (2 & 3-53), 5108171 (RH) AND 5107082 (LH) (2-53) AND BLOWER DRIVE GEAR 5107078 (LH) OR 5107079 (RH).															

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	302	310	311	315	387	401	414	415	426	427	433	468	470
1.7225 - BEARING, IDLER GEAR															
F	5196793	BEARING	1	1	1	1	1	1	1	1	1	1	1	1	1
F	5132504	WASHER	2	2	2	2	2	2	2	2	2	2	2	2	2
1.7250 - HUB, IDLER GEAR															
F	5124458	HUB	1	1	1	1	1	1	1	1	1	1	1	1	1
F	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	2	2	1	1	1	1	1	1	1

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	4 8 6	5 0 9	5 5 6	5 5 9	5 6 1	5 6 9	5 7 0	5 7 1	5 7 2	5 9 3	6 2 5
1.7001 - CAMSHAFT ASSY.													
A CAMSHAFT ASSY. INCLUDES PLUGS IN 1.7001.													
7B	5199397	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7L)	1					1	1				1
7B	5199396	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7L)	1					1	1				1
7B	8927167	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7L)		1							1		
7B	8927166	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7L)		1							1		
7A	5149095	CAMSHAFT ASSY., 4-53 RA-RB-RC-RD ENG. (STAMPED V7L)			1								
7B	5126934	CAMSHAFT ASSY., 6V-53 R. BANK R.H. ENG.; L. BANK L.H. ENG. (STAMPED V7)				1							
7B	5126933	CAMSHAFT ASSY., 6V-53 L. BANK R.H. ENG.; R. BANK L.H. ENG. (STAMPED V7)				1							
7A	5149091	CAMSHAFT ASSY. 3-53 RB-RC-LA-LD ENG. (STAMPED V7L)					1						
7A	8927165	CAMSHAFT ASSY. 4-53 RA-RB-RC-RD (STAMPED V7L)							1				
7A	8923998	CAMSHAFT ASSY. 3-53 LB-LC-RA-RD (STAMPED V7L)										1	
7A,B	5151277	PLUG, 1/2" DRIVE	4	4	2	4	2	4	4	2	4	2	4
1.7010 - BEARING, CAMSHAFT END													
A SET INCLUDES ALL END AND INTERMEDIATE BEARINGS WHICH ARE NOT SOLD SEPARATELY.													
7B	5197944	BEARING SET (STD. 6V-53)	1	1		1		1	1		1		1
7B	5198983	BEARING SET (STD. I.D., .010" O.S. O.D.)	AR	AR		AR		AR	AR		AR		AR
7B	5197945	BEARING SET (.010" U.S. I.D., STD. O.D.)	AR	AR		AR		AR	AR		AR		AR
7B	5197946	BEARING SET (.020" U.S. I.D., STD. O.D.)	AR	AR		AR		AR	AR		AR		AR
7A	5198984	BEARING SET (STD. 4-53)			1					1			
7A	5198979	BEARING SET (STD. I.D., .010" O.S. O.D.)			AR					AR			
7A	5198978	BEARING SET (.010" U.S. I.D., STD. O.D.)			AR					AR			
7A	5198981	BEARING SET (.020" U.S. I.D., STD. O.D.)			AR					AR			
7A	5198209	BEARING SET (STD. 3-53)					1					1	
7A	5198980	BEARING SET (STD. I.D., .010" O.S. O.D.)					AR					AR	
7A	5198470	BEARING SET (.010" U.S. I.D., STD. O.D.)					AR					AR	
7A	5198471	BEARING SET (.020" U.S. I.D., STD. O.D.)					AR					AR	
1.7030 - WASHER, CAM AND BALANCE SHAFT END BEARING THRUST													
7A,B	5116198	WASHER	2	2	2	2	2	2	2	2	2	2	2
7A,B	9409028	BOLT, 3/8"-16X1" (12.9001)	4	4	4	4	4	4	4	4	4	4	4

1.7000 CAMSHAFT AND GEAR TRAIN

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES										
			4 8 6	5 0 9	5 5 6	5 5 9	5 6 1	5 6 9	5 7 0	5 7 1	5 7 2	5 9 3	6 2 5
		1.7060 - SEAL, CAMSHAFT OIL											
7A,B	5106223	SEAL, OIL (FRONT 3, 4, 6V-53)	2	2	2	2	2	2	2	2	2	2	2
		1.7062 - SPACER, CAMSHAFT OIL SEAL											
7B	5106360	SPACER	2	2	2	2	2	2	2	2	2	2	2
		1.7080 - SHAFT, BALANCE											
	5121074	SHAFT, 4-53			1				1			1	
	5121073	SHAFT, 3-53					1						
		1.7130 - PULLEY, FRONT BALANCE											
7B	8925942	PULLEY, 6V-53	2	2		2		2	2		2		2
7A	8925946	PULLEY, 4-53			2								
7A	8925944	PULLEY, 3-53					2					2	
7A	8925943	PULLEY, 4-53T							2				
7A,B	8926248	KEY, 3/16"X5/8" WOODRUFF (12.9350)	2	2	2	2	2	2	2	2	2	2	2
7A,B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2	2	2	2	2	2	2	2	2	2
		1.7190 - WEIGHT, REAR BALANCE											
	8926005	WEIGHT, 6V-53	2	2		2		2	2		2		2
7A	5119277	WEIGHT, 3,4-53			2		2					2	
7A	5119278	WEIGHT, 4-53			2					2			
7A	8926004	WEIGHT, 4-53								2			
	9409028	BOLT, 3/8"-16X1" (12.9001)					4					4	
	8927580	BOLT, 3/8"-16X1.015" (12.9001)	4	4		4			4		4		4
A	9409215	BOLT, 3/8"-16X1 1/4" (12.9001)			4					4			
		1.7200 - GEAR, CAMSHAFT AND BALANCE SHAFT											
B	5107072	GEAR (R.H. HELIX) (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.-111 TEETH)	1	1		1		1	1		1	1	1
B	5107073	GEAR (L.H. HELIX) (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.-111 TEETH)	1	1		1		1	1		1	1	1
	8924987	GEAR, HARDENED (R.H. HELIX) (R. BANK CAMSHAFT R.H. ENG., L. BANK CAMSHAFT L.H. ENG.-111 TEETH)			1		1			1			
	8924988	GEAR, HARDENED (L.H. HELIX) (L. BANK CAMSHAFT R.H. ENG., R. BANK CAMSHAFT L.H. ENG.-111 TEETH)			1		1			1			
B	8926248	KEY, 3/16"X5/8" SPECIAL (12.9350)	2	2		2	2	2	2	2	2	2	2
B	5150087	NUT, 1 1/8"-18 (1.7140)	2	2		2	2	2	2	2	2	2	2
		1.7202 - SPACER, CAMSHAFT AND BALANCE SHAFT GEAR											
A,B	5121077	SPACER	2	2	1	2	1	2	2	1	2	1	2

1.7000 CAMSHAFT AND GEAR TRAIN

PART			TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	4 8 6	5 0 9	5 5 6	5 5 9	5 6 1	5 6 9	5 7 0	5 7 1	5 7 2	5 9 3	6 2 5
1.7207 - RETAINER, CAM AND BALANCE SHAFT GEAR NUT													
7B	5172734	RETAINER	2	2	2		2	2	2	2	2	2	
7B	181360	BOLT, 3/8"-24X3/4" (12.9001)	4	4			4	4	4		4	4	
7A	181361	BOLT, 3/8"-24X7/8" (12.9001)			4					4			
7B	103321	LOCKWASHER, 3/8" (12.9200)	4	4	4		4	4	4	4	4	4	
1.7220 - GEAR ASSY., IDLER													
A GEAR ASSY. INCLUDES BEARING IN 1.7225.													
	5107075	GEAR ASSY., (L.H. HELIX; 82 TEETH)	1	1		1		1	1		1	1	1
	8924990	GEAR ASSY., HARDENED (L.H. HELIX; 82 TEETH-STAMPED 8924989)			1		1			1			
1.7225 - BEARING, IDLER GEAR													
7F	5196793	BEARING	1	1	1	1	1	1	1	1	1	1	1
7F	5132504	WASHER	2	2	2	2	2	2	2	2	2	2	2
1.7250 - HUB, IDLER GEAR													
7F	5124458	HUB	1	1	1	1	1	1	1	1	1	1	1
7F	5157244	BOLT, 3/8"-16X1 3/4" (4.4190)	1	1	1	1	1	1	1	1	1	1	1

1.7000A BALANCE WEIGHT COVER

PART		TYPES											
FIG . . .	NUMBER	NAME AND DESCRIPTION											
		5 2	5 3	5 4	5 5	5 6	5 7	5 8	5 9	6 0	6 1	6 2	6 3
1.7470 - COVER, BALANCE WEIGHT													
	A COVER ASSEMBLY INCLUDES DOWEL PINS IN 1.7470.												
5133674	COVER ASSY. (1.3161)	1											
5119428	COVER ASSY. (1.3161)		1										1
5128026	COVER ASSY. (ALSO INCLUDES PLUGS IN 1.7470) (1.3161)			1									
5109807	COVER ASSY. (ALSO INCLUDES PLUGS AND HELI-COILS) (1.3161)				1				1		1	1	
5126008	COVER ASSY. (ALSO INCLUDES PLUG AND NIPPLE IN 1.7470) (1.3161)					1							
5128025	COVER ASSY. (ALSO INCLUDES PLUG AND NIPPLE IN 1.7470) (1.3161)						1						
5101347	COVER ASSY. (1.3161)							1		1			
5119481	ELEMENT (4.8060)					1	1						
5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)	2	2					2		2			2
456378	PIN, 1/4"X2" SPRING (12.9270)	1											
5157933	PIN, 5/16"X7/8" DOWEL (3.4140)			2	2	2	2		2		2	2	
5150829	PLUG, 7/8" CUP (4.8001)			2	2	1	1		2		2	2	
5101391	PLUG, AIR HEATER (1.3161)								1			1	
452712	INSERT, HELI-COIL 7/16"-14X7/16" (12.9118)				2				2		2	2	
5119477	NIPPLE (5.2160)					1	1						
186622	BOLT, 3/8"-16X1 1/4" (12.9001)	9	9					9		9			9
186628	BOLT, 3/8"-16X1 1/2" (12.9001)									4			4
179844	BOLT, 3/8"-16X1 5/8" (12.9001)		4	11	11	11	11	4	11		11	11	
179846	BOLT, 3/8"-16X1 7/8" (12.9001)	4											
179848	BOLT, 3/8"-16X2 1/4" (12.9001)			12	12	12	12		12		12	12	
180078	BOLT, 5/16"-18X7/8" (12.9001)								3			3	
5155596	WASHER, 21/64"X9/16" COPPER (4.7120)								3			3	
103341	WASHER, 3/8" (12.9190)	13			23			13	23	13	23	23	
103321	LOCKWASHER, 3/8" (12.9200)	13	13	23	23	23	23	13	23	13	23	23	13
1.7472 - SEAL, BALANCE WEIGHT COVER OIL													
5106223	SEAL (1.7060)	2	2	2	2	2	2	2	2	2	2	2	2
5109517	SEAL, RING (7.8040)								1			1	
1.7480 - GASKET, BALANCE WEIGHT COVER													
5121082	GASKET (1.3170)	1	1					1		1			1
5124055	GASKET (1.3170)			1	1	1	1		1		1	1	
5109496	GASKET (7.8040)								1			1	

1.7000B ACCESSORY DRIVE

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	3 8	4 1	4 7	5 7	6 0	6 1	7 6	7 7	8 2	9 2	9 5	1 1 8	1 3 1
1.7604 - GASKET, ACCESSORY DRIVE															
	5104506	GASKET (1.5040)	1	1	1	1	1	1	1					1	
1.7605 - PULLEY, ACCESSORY DRIVE															
	NPN	PULLEY (CUSTOMER FURNISHED)							AR						
8B	5100268	PULLEY (5 1/4" DIA., SINGLE GROOVE) (7.1505)				1	1								
8A	5168696	PULLEY (5 1/2" DIA., DOUBLE GROOVE)	1				1							1	2
8B	5164291	PULLEY (5 1/2" DIA., SINGLE GROOVE)		1											
	5133838	PULLEY (5 1/2" DIA., DOUBLE GROOVE) (12.4015)											1		
	5177236	PULLEY (6 1/4" DIA., DOUBLE GROOVE)										1			
8B	124548	KEY, 5/32"X3/4" WOODRUFF (12.9350)		1		1									
8A	124549	KEY, 3/16"X3/4" WOODRUFF (12.9350)	1				1					1	1	1	2
8B	193221	BOLT, 7/16"-14X1 1/4" (12.9001)		1		1									
8B	5132987	WASHER, 7/16"		1		1									
8B	103322	LOCKWASHER, 7/16" (12.9200)		1		1									
8A	272906	NUT, 3/4"-16 LOCK (12.9140)	1				1					1	1	1	2
1.7607 - BRACKET, ACCESSORY DRIVE															
	5140021	SUPPORT							2						
	114926	BOLT, 3/8"-16X4 1/4" (12.9001)							4						
1.7610 - HUB, DRIVE PULLEY															
8B	5164286	HUB		1		1									
8B	5176474	BOLT 3/8"-24X1.12" (1.7630)			4	4									
8B	5145091	BOLT, 3/8"-24 X 1.38" SELF LK. (12.5015)		4											
1.7615 - RETAINER, DRIVE PULLEY HUB OIL SEAL															
A RETAINER ASSY. INCLUDES OIL SEAL.															
8B	5102565	RETAINER ASSY.		1		1									
8B	179857	BOLT, 7/16"-14X7/8" (12.9001)		1		1									
8B	122408	BOLT, 1/2"-13X1" (12.9001)		4		4									
8B	5150568	WASHER, 7/16" COPPER (12.9190)		1		1									
8B	103323	LOCKWASHER, 1/2" (12.9200)		4		4									
1.7620 - SEAL, DRIVE PULLEY HUB OIL															
8B	5102456	SEAL		1		1									

1.7000B ACCESSORY DRIVE

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 8	4 7	5 7	6 0	6 1	7 6	7 7	8 2	9 2	9 5	1 1 8	1 3 1
1.7627 - HOUSING, ACCESSORY DRIVE														
	5121050	PLATE (2.2235)					1							
	179857	BOLT, 7/16"-14X7/8"(12.9001)					1							
	179882	BOLT, 1/2"-13X1 1/8"(12.9001)					4							
	5150568	WASHER, 7/16" COPPER (12.9190)					1							
	103323	LOCKWASHER, 1/2"(12.9200)					4							
1.7630 - PLATE ASSY., ACCESSORY DRIVE														
A	5153449	* PLATE	1											
A	5131627	PLATE				1		1		1		1	1	
A	5170450	PLATE		1					1		1			2
	5177026	SPACER	1	1		1		1		1		1	1	
	5127266	ADAPTOR (2.2220)					1							
	9409035	BOLT, 3/8"-24X1" LOCK(12.9001)					2							
A	5176474	BOLT (3/8"-24X1.12")	3			3		3						
A	5145092	BOLT, 3/8"-24 X 1.20" LOCK (12.5015)	4			4		4		4	4		4	8
A	5145091	BOLT, 3/8"-24 X 1.38" (12.5015)	4		4	4		4	4			4		
		* NOT SERVICED; USE 5131627 PLATE AND INCLUDE (1) 5143616 HUB TO INSURE INTERCHANGEABILITY.												
1.7633 - RETAINER, CAM OR BALANCE GEAR														
	5122922	RETAINER (1.7207)	1	2		1	2	1				3		
	5122923	STUD, 3/8"-24X1 1/2"(12.9117)	1	1		1		1						
	124925	NUT, 3/8"-24 (12.9120)	1			1		1						
	9413533	NUT, 3/8"-24 HEX. THIN (12.9120)	1	1		1		1						
	5145431	NUT, 3/8"-24 JAM CAD. (12.4037)		1										
1.7635 - COUPLING, ACCESSORY DRIVE														
	5102257	FORK (2.2220)					1							
1.7640 - SHAFT, ACCESSORY DRIVE														
	5168697	# SHAFT	1											
	5122876	SHAFT		1										
	5131130	SHAFT				1		1	1		1	1	1	2
		# NOT SERVICED USE 5122876 PLUS 5131627 PLATE.												
1.7645 - RETAINER ASSY., ACCESSORY DRIVE														
		A RETAINER ASSY. INCLUDES ITEMS IN 1.7650, 1.7655 AND SEAL IN 1.7660.												
	5123116	* RETAINER ASSY.	1	1										
		* NOT SERVICED, USE 5131402.												