

9.1000A HYDRAULIC MARINE GEAR

			COLUMN															
PART			A	B	C	D	E	F	G	H	I	J	K	L	M	N		
FIG	NUMBER	NAME AND DESCRIPTION																
9.1155 - SPRING, SELECTOR VALVE																		
2A	5196219	SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5149764	SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196220	RETAINER, SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196212	RING, SNAP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1157 - CAM, NEUTRAL																		
2A	5149936	CAM											1	1	1	1	1	1
2A	179796	BOLT, 1/4"-20X7/8" (12.9001)											3	3	3	3	3	3
2A	103319	LOCKWASHER, 1/4" (12.9200)											3	3	3	3	3	3
9.1160 - SEAL, SELECTOR VALVE OIL																		
2A	5196222	SEAL RING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1175 - LEVER, SELECTOR VALVE OPERATING																		
2A	5197136	LEVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5149768	SWITCH AND COVER ASSY.											1	1	1	1	1	1
2A	5196221	SPRING (DETENT)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	103340	WASHER, 5/16" (12.9190)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1178 - COVER, SELECTOR VALVE																		
2A	5196224	COVER	1	1	1	1	1	1	1	1	1	1						
2A	5149765	COVER											1	1	1	1	1	1
2A	186676	BOLT, 1/4"-20X5/8" (12.9001)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2A	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9.1179 - GASKET, SELECTOR VALVE COVER																		
2A	5196225	GASKET	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1223 - CYLINDER, FORWARD CLUTCH PISTON																		
2A	5196194	CYLINDER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196198	SEAL RING (ON INPUT SHAFT)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2A	5149755	SEAL RING											4	4	4	4	4	4
9.1224 - WASHER, FORWARD CLUTCH CYLINDER THRUST																		
2A	5196881	WASHER (.063" THICK)	1	1	AR	AR	AR	AR	1	1	1	1	1	1	1	1	1	1
9.1225 - PISTON, FORWARD CLUTCH																		
2A	5196196	PISTON	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		9.1230 - SEAL, FORWARD CLUTCH PISTON													
2A	5196195	SEAL RING, 2.016 I.D.	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196197	SEAL RING, 4.120 I.D.	1	1	1	1	1	1	1	1	1	1	1	1	1
		9.1235 - PLATE, FORWARD CLUTCH													
2A	5196202	PLATE (INNER)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196205	PLATE (OUTER)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5197160	PLATE	5	5	5	5	5	5	5	5	5	5	5	5	5
2A	5196203	PLATE (STEEL)	4	4	4	4	4	4	4	4	4	4	4	4	4
2A	5149809	PLATE (INNER)											5	5	5
		9.1240 - SPRING, FORWARD CLUTCH RELEASE													
2A	5196201	SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196200	RING, SNAP (3" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196209	RING, SNAP (5 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1
		9.1242 - HUB, FORWARD CLUTCH													
2A	5196206	HUB	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196207	RING, SNAP (1 21/32" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	218211	KEY, 1/4"X3/4" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1	1	1	1
		9.1282 - PLATE, REDUCTION GEAR ADAPTOR													
2B	5196250	PLATE, 1.5:1 RED.			1	1									
2B	5196247	PLATE, 2:1 RED.					1	1							
2D	5196248	PLATE, 2.5:1 & 3:1 RED.							1	1	1	1			
2B	5199039	PLATE, 1.5:1 RED.													1
2B,C	5199060	BOLT, 7/16"-14X1" (NYLON INSERT)			6	6	6	6							6
2D	5199061	BOLT, 7/16"-14X1 1/4" (NYLON INSERT)							6	6	6	6			
2B,C,D	114607	LOCKWASHER, 7/16" EXT. TOOTH (12.9210)			6	6	6	6	6	6	6	6			6
		9.1283 - GASKET, REDUCTION GEAR ADAPTOR PLATE													
2B,C,D	5196260	GASKET			1	1	1	1	1	1	1	1			1
		9.1285 - HOUSING, REDUCTION GEAR													
2B	5197333	HOUSING, 1.5:1 RED.			1	1									
2C	5196283	HOUSING, 2:1 RED.					1	1							
2D	5196284	HOUSING, 2.5:1 & 3:1 RED.							1	1	1	1			
2B	5149684	HOUSING, 1.5:1 RED.													1
2B	103891	PLUG, 5/8" EXPANSION (12.9330)			1	1									
2B,C,D	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			6	6	6	6	6	6	6	6			

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FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1285 - HOUSING, REDUCTION GEAR (CONT'D)															
B,C,D	427567	BOLT, 7/16"-14X1 3/4" (12.9001)			2	2	2	2	2	2	2	2			2
B,C,D	180123	BOLT, 3/8-16X1 1/8 (12.9001)													6
B,C,D	103321	LOCKWASHER, 3/8" (12.9200)			6	6	6	6	6	6	6	6			6
B,C,D	103322	LOCKWASHER, 7/16" (12.9200)			2	2	2	2	2	2	2	2			2
9.1286 - GASKET, REDUCTION GEAR HOUSING															
B,C,D	5196285	GASKET			1	1	1	1	1	1	1	1			1
9.1287 - GEAR, REDUCTION GEAR INPUT															
B	5196251	GEAR (1.5:1 RED.)			1	1									1
9.1288 - PLATE, REDUCTION GEAR PLANETARY RING GEAR															
D	5196256	PLATE, 2.5:1 RED.							1	1					
D	5196255	PLATE, 3:1 RED.									1	1			
9.1290 - GEAR, REDUCTION GEAR SUN															
B	5196263	GEAR, 1.5:1 RED.			1	1									
C	5196264	GEAR, 2:1 RED.					1	1							
D	5196265	GEAR, 2.5:1 RED.							1	1					
D	5196266	GEAR, 3:1 RED.									1	1			
B	5149686	GEAR, 1.5:1 RED.													1
C	5196267	RING, SNAP (1 27/32" I.D.)					1	1							
D	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)							1	1	1	1			1
B	5196277	PIN (GEAR DRIVE)			1	1									
B	5196278	PIN, ROLL			1	1									
9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY															
B	5196268	GEAR ASSY., 1.5:1 RED.			1	1									1
C	5196269	GEAR ASSY., 2:1 RED., L.H. (2 DRILL SPOTS ON REAR FACE)					1								
C	5196288	GEAR ASSY., 2:1 RED., R.H.						1							
D	5196270	* GEAR ASSY., 2.5:1 RED. (10 SPLINES)							1	1					
D	5198141	GEAR ASSY., 2.5:1 RED. (24 SPLINES)							AR	AR					
D	5196271	* GEAR ASSY., 3:1 RED. (10 SPLINES)									1	1			
D	5197880	GEAR ASSY., 3:1 RED. (24 SPLINES)										AR	AR		
B	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)			1	1									
* NOT SERVICED; FOR REPLACEMENT USE 5198141 (2.5:1) OR 5197880 (3:1) GEAR ASSY. AND INCLUDE 1-9422151 BEARING IN 9.1350, 1-5198125 FLANGE IN 9.1430 AND 1-5198128 NUT IN 9.1435.															

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FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1293 - WASHER, REDUCTION GEAR PLANETARY GEAR THRUST														
2C	5196279	WASHER (2:1 RED.)					2	2								
		9.1298 - GEAR, REDUCTION GEAR PLANETARY RING														
2B,C,D	5196252	GEAR, 1.5:1, 2:1, 3:1 RED.			1	1	1	1			1	1			1	1
2D	5196257	GEAR, 2.5:1 RED.							1	1						
2B,C,D	5196253	RING, SNAP (6 1/4" O.D.)			1	1	1	1			1	1			1	1
2D	5196258	RING, SNAP (6 17/32" O.D.)							1	1						
		9.1299 - HUB, REDUCTION GEAR														
2B	5149690	HUB													1	1
2B	5149681	RING, SNAP													1	1
2B	179857	BOLT, 7/16"-14X7/8" (12.9001)													4	4
		9.1340 - SHAFT, REDUCTION GEAR DRIVE														
2B	5196276	SHAFT, 1.5:1 RED.			1	1										
2C	5196273	SHAFT ASSY. (INCLUDES BUSHING) (2:1 RED.)					1	1								
	5199829	BUSHING, 2:1 RED. (9.1087)					1	1								
2B	5149688	SHAFT, 1.5:1 RED.													1	1
		9.1350 - BEARING, REDUCTION GEAR OUTPUT SHAFT														
2B,C,D	5197342	BEARING	1	1												
2B,C,D	9413343	@ BEARING			1	1	1	1	1	1	1	1	1	1		
2D	9422151	# BEARING							AR	AR	AR	AR				
		@ WITH 10 SPLINE GEAR IN 9.1292.														
		# WITH 24 SPLINE GEAR IN 9.1292.														
		9.1351 - SPACER, REDUCTION GEAR DRIVE SHAFT BEARING														
	5149766	SPACER, BEARING													1	1
		9.1365 - COVER, REDUCTION GEAR BEARING														
2B,C,D	5196227	COVER	1	1										1	1	
2B,C,D	5196286	COVER			1	1	1	1	1	1	1	1				
2B,C,D	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	6	6	6	6	6	6	6	6	6	6				
2B,C,D	427567	BOLT, 7/16"-14X1 1/8" (12.9001)											6	6		
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6	6	6		
		9.1370 - GASKET, REDUCTION GEAR BEARING COVER														
2B,C,D	5196228	GASKET	1	1										1	1	
2B,C,D	5196287	GASKET			1	1	1	1	1	1	1	1				

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PART	FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL																	
2B,C,D	5199391		SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2B,C,D	5149676		SEAL, OIL													1	1
9.1380 - BAFFLE, MARINE GEAR OIL																	
2A	5196175		BAFFLE	1	1	1	1	1	1	1	1	1	1			1	1
2A	5196894		BAFFLE											1	1		
2A	5149674		BAFFLE, OIL													1	1
9.1395 - DIPSTICK, REDUCTION GEAR																	
2A	5196176		% DIPSTICK (FILLER CAP) (WITH HOUSING 5196235 OR 5196728)	1	1	1	1	1	1	1	1	1	1				
2A	5133364		* DIPSTICK (FILLER PLUG) (WITH HOUSING 5198093 OR 5198094)	1	1	1	1	1	1	1	1	1	1				
2A	5149802		DIPSTICK											1	1		
2A	5149100		DIPSTICK													1	1
* NOT SERVICED REPLACE WITH 1-5149100 DIPSTICK & 1-5149061 ADAPTOR.																	
% OBSOLETE.																	
9.1410 - TUBE, REDUCTION GEAR OIL FILLER																	
	5196174		TUBE (WITH FILLER CAP TYPE DIPSTICK)	1	1	1	1	1	1	1	1	1	1				
	5149061		TUBE											1	1	1	1
9.1430 - FLANGE, PROPELLER DRIVE																	
1B,C,D	5196796		* FLANGE (3 1/4"B.C.) (1"-1 1/2" SHAFT) (10 SPLINES)	1	1	1	1	1	1	1	1	1	1	1	1		
1B,C,D	5196745		FLANGE (4 1/4"B.C.) (NOT PART OF GEAR ASSY., USED IN PLACE OF 5196796 WITH 1 3/4"-2 1/4" SHAFT)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
D	5198125		@ FLANGE (4 1/4"B.C.) (24 SPLINES)							AR	AR	AR	AR	AR	AR		
* WITH 10 SPLINE GEAR ASSY. IN 9.1292.																	
@ WITH 24 SPLINE GEAR ASSY. IN 9.1292.																	
9.1435 - NUT, PROPELLER DRIVE FLANGE																	
B,C,D	5196805		* NUT	1	1	1	1	1	1	1	1	1	1	1	1		
D	5198128		@ NUT							AR	AR	AR	AR				
B,C,D	5149755		NUT													1	1
* WITH 10 SPLINE GEAR ASSY. IN 9.1292.																	
@ WITH 24 SPLINE GEAR ASSY. IN 9.1292.																	

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FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR OIL																
2A	5196214	PUMP ASSY. (INCLUDES SCREW IN 9.1475 AND SEAL IN 9.1505, GEARS AND PLATE NOT SOLD SEPARATELY)	1		1	1	1	1	1	1	1	1	1	1	1	1
2A	5196889	PUMP ASSY.											1	1	1	1
2A	110533	SCREW, #10-24X3/4" FL. HD. SL. (12.9030)	2	2	2	2	2	2	2	2	2	2				
2A	186648	BOLT, 5/16"-18X1 7/8" (12.9001)	4	4	4	4	4	4	4	4	4	4				
2A	180082	BOLT, 5/16"-18X1 3/8" (12.9001)											4	4	4	4
2A	431787	KEY, 3/16"X5/8" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1				
2A	5198270	KEY, 3/16"X51/64"											1	1	1	1
9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5196216	GASKET	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5196215	SEAL, OIL	1	1	1	1	1	1	1	1	1	1				
2A	5199315	SEAL, OIL											1	1	1	1
2A	5149675	+ SEAL, OIL + OPTIONAL.											1	1		
9.1650 - STRAINER, MARINE GEAR OIL																
2A	5196178	STRAINER	1	1												
2A	5198456	STRAINER			1	1	1	1	1	1	1	1			1	1
2A	5197331	STRAINER											1	1	1	1
2A	5198458	PIPE, OIL STRAINER											1	1	1	1
2A	120428	GASKET, 1" ANNULAR (12.9360)	1	1	1	1	1	1	1	1	1	1				
2A	5198457	BUSHING, 3/4"X3/8"											1	1	1	1
2A	453006	PLUG, 1" PIPE SQ. SOCKET (12.9550)	1	1	1	1	1	1	1	1	1	1				
2A	5145014	PLUG, 3/8" PIPE (12.9550)											1	1	1	1
2A	5142549	PLUG, 3/4" PIPE (12.9550)											1	1	1	1
9.1840 - BREATHER, MARINE GEAR																
2A	5198454	BREATHER (3/8" DRIVE TYPE)	1	1	1	1	1	1					1	1	1	1
2A	5196177	BREATHER (3/8"-18 THREAD)	1	1	1	1	1	1	1	1	1	1				
2A	5197510	BREATHER (1/2" DRIVE TYPE)	1	1	1	1	1	1	1	1	1	1				

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9.1001 - GEAR ASSY., HYDRAULIC MARINE																
	5129531	* GEAR ASSY. (DIRECT DRIVE, L.H.)	1													
	5129536	* GEAR ASSY. (DIRECT DRIVE, R.H.)		1												
IA	5129532	* GEAR ASSY. (1.5:1 RED., L.H.)			1											
IA	5129537	* GEAR ASSY. (1.5:1 RED., R.H.)				1										
IA	5129533	* GEAR ASSY. (2:1 RED., L.H.)					1									
IA	5129538	* GEAR ASSY. (2:1 RED., R.H.)						1								
IA	5129534	* GEAR ASSY. (2.5:1 RED., L.H.)							1							
IA	5129539	* GEAR ASSY. (2.5:1 RED., R.H.)								1						
IA	5129535	* GEAR ASSY. (3:1 RED., L.H.)									1					
IA	5129540	* GEAR ASSY. (3:1 RED., R.H.)										1				
IA	5106308	GEAR ASSY. (2:1 REV. R.H.)											1			
IA	5106309	GEAR ASSY. (2:1 REV. L.H.)												1		
IA	5106310	GEAR ASSY. (2.5:1 REV. R.H.)													1	
IA	5106311	GEAR ASSY. (2.5:1 REV. L.H.)														1
* NOT SERVICED; SHOWN FOR REFERENCE ONLY.																
9.1007 - ADAPTOR, MARINE GEAR HOUSING																
IA	5198322	@ ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1					1	1	1	1
IA	5196179	* ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IA	455724	BEARING (NEEDLE)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IA	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IA	5197537	BOLT, 3/8"-16X1 1/4" (12 PT. HD.)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
@ EFF. WITH SERIAL NO. 26656 (D.D.), 6260 (1.5:1), 2382 (2:1) AND 571 (3:1). * THRU SERIAL NO. 26655 (D.D.), 6259 (1.5:1), 2381 (2:1), AND 570 (3:1).																
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR																
A	5196181	GASKET	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1010 - HOUSING, MARINE GEAR																
A HOUSING ASSY. INCLUDES BUSHING IN 9.1010 AND TUBE IN 9.1410.																
A	5197092	# HOUSING ASSY. (DIRECT DRIVE)	1	1												
A	5198093	& HOUSING ASSY. (DIRECT DRIVE)	1	1												
A	5196728	= HOUSING ASSY. (REDUCTION DRIVE)			1	1	1	1	1	1	1	1				
A	5198094	& HOUSING ASSY. (REDUCTION DRIVE)			1	1	1	1	1	1	1	1				
A	5149807	HOUSING ASSY.											1	1	1	1
	5149693	NAME PLATE											1			
	5149694	NAME PLATE												1		
	5149823	NAME PLATE													1	
	5149824	NAME PLATE														1
A	5196511	BUSHING (OUTPUT SHAFT)	2	2	2	2	2	2	2	2	2	2				
A	190073	SCREW, DRIVE #2X3/16" (12.9067)											2	2	2	2
A	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1				
A	5145014	PLUG, 3/8" PIPE (12.9550)	2	2	2	2	2	2	2	2	2	2				
	9421745	PLUG (1/2" CUP)							1	1	1	1				
	5198461	PLUG (.338" DIA. CUP)							1	1	1	1				
# PRIOR TO GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5:1), 672 (2:1), 1614 (2.5:1) AND 367 (3:1). NOT SERVICED; REPLACE WITH 5198093 HOUSING & 5149100 DIPSTICK & 1-5149061 ADAPTOR.																

9.1000A HYDRAULIC MARINE GEAR

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1010 - HOUSING, MARINE GEAR (CONT'D)																
& EFF. WITH GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5 1), 672 (2 1), 1614 (2.5 1) & 367 (3 1).																
= NOT SERVICED REPLACE WITH 5198094 PLUS 1-5149100 DIPSTICK & 1-5149061 ADAPTOR.																
9.1026 - SHAFT, MARINE GEAR INPUT																
2A	5198244	SHAFT (INCLUDES FLANGE KEY IN 9.1475)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1027 - BEARING, MARINE GEAR INPUT SHAFT																
2A	9413342	BEARING	1	1	1	1	1	1	1	1	1	1				
2A	5149670	BEARING											1	1	1	1
2A	3709351	RING, SNAP (1 1/4" I.D.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196193	RING, SNAP (2 1/4" I.D.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1030 - PISTON, REVERSE CLUTCH																
2A	5196183	PISTON	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1035 - SEAL, REVERSE CLUTCH PISTON																
2A	5196188	SEAL, RING (3 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196180	SEAL, RING (7 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1045 - PLATE, REVERSE CLUTCH																
2A	5196730	PLATE (SPLINED)	2	2	2	2	2	2	2	2	2	2				
2A	5196303	PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5149757	PLATE											2	2	2	2
9.1055 - SPRING, REVERSE CLUTCH RELEASE																
2A	5196186	SPRING	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9.1060 - PLATE, REVERSE CLUTCH REACTION																
2A	5196184	PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	3712718	PIN (.623"L)	3	3	3	3	3	3	3	3	3	3	3	3	3	3

9.1000A HYDRAULIC MARINE GEAR

			COLUMN														
PART	FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1080 - GEAR ASSY., MARINE GEAR PLANETARY																	
INCLUDES BUSHINGS IN 9.1087.																	
2A		5196210	GEAR ASSY. (DIRECT DRIVE)	1	1												
2A		5196244	GEAR ASSY. (1.5:1 RED.)			1	1										
2A		5196245	GEAR ASSY. (2:1 RED.)					1	1								
2A		5196246	GEAR ASSY. (2.5:1 & 3:1 RED.)							1	1	1	1				
2A		5149810	GEAR ASSY. (2.1:1 RED.)											1	1		
2A		5149811	GEAR ASSY. (2.6:1 RED.)													1	1
9.1085 - WASHER, MARINE GEAR PLANETARY GEAR THRUST																	
2A		5196211	WASHER (1 3/4" O.D.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A		5196213	WASHER (2 5/8" O.D.) (1.5 & 2:1 RED.)			1	1	1	1								
2A		5149762	WASHER, THRUST											1	1		
9.1087 - BEARING, MARINE GEAR PLANETARY GEAR																	
2B		5199063	BEARING				1	1									
2D		5197342	BEARING							1	1	1	1				
		5199829	BUSHING	2	2	3	3	2	2	2	2	2	2	2	2	2	2
2D		5196259	RING, SNAP (1 27/64" DIA.)							1	1	1	1			1	1
2B		5196254	RING, SNAP (2 1/16" DIA.)				1	1									
9.1091 - GEAR, MARINE GEAR PLANETARY RING																	
2A		5196208	GEAR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A		5196199	RING, SNAP (5 7/8" O.D.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1093 - SHAFT, OUTPUT AND BUSHING ASSEMBLY																	
		5149817	SHAFT											1	1		
		5149820	SHAFT													1	1
9.1097 - BEARING, OUTPUT SHAFT																	
B		5149679	CUP, BEARING											1	1	1	1
B		5149677	CUP, BEARING											1	1	1	1
B		5149680	CONE, BEARING											1	1	1	1
B		5149678	CONE, BEARING											1	1	1	1
9.1135 - VALVE ASSY., SELECTOR																	
A		5196217	VALVE ASSY. (INCLUDES ITEMS IN 9.1137 THRU 9.1160)	1	1	1	1	1	1	1	1	1	1				
A		5149763	VALVE ASSY. (INCLUDES ITEMS IN 9.1137 THRU 9.1160)											1	1	1	1
9.1137 - VALVE, SELECTOR																	
A		5196218	VALVE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A		5149673	VALVE											1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
..FIG ..	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1155 - SPRING, SELECTOR VALVE																
2A	5196219	SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196220	RETAINER, SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5149764	SPRING											1	1	1	1
2A	5196212	RING, SNAP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1157 - CAM, NEUTRAL																
2A	5149936	CAM											1	1	1	1
2A	179796	BOLT, 1/4"-20X7/8" (12.9001)											3	3	3	3
2A	103319	LOCKWASHER, 1/4" (12.9200)											3	3	3	3
9.1160 - SEAL, SELECTOR VALVE OIL																
2A	5196222	SEAL RING	1	1	1	1	1	1	1	1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1175 - LEVER, SELECTOR VALVE																
A	5197136	LEVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5196221	SPRING (DETENT)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5149768	SWITCH AND COVER ASSY.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	103340	WASHER, 5/16" (12.9190)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1178 - COVER, SELECTOR VALVE																
A	5196224	COVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5149765	COVER	3	3	3	3	3	3	3	3	3	3	3	3	3	3
A	186630	BOLT, 1/4"-20X5/8" (12.9001)	3	3	3	3	3	3	3	3	3	3	3	3	3	3
A	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9.1179 - GASKET, SELECTOR VALVE COVER																
A	5196225	GASKET	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1223 - CYLINDER, FORWARD CLUTCH PISTON																
A	5196194	CYLINDER	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5196198	SEAL RING (ON OUTPUT SHAFT)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
A	5149755	SEAL RING	2	2	2	2	2	2	2	2	2	2	2	2	2	2
9.1224 - WASHER, FORWARD CLUTCH CYLINDER THRUST																
A	5196881	WASHER (.063" THICK)	1	1	AR	AR	AR	AR	1	1	1	1	1	1	1	1
A	5196882	WASHER (.087" THICK)	1	1	AR	AR	AR	AR	1	1	1	1	1	1	1	1
9.1225 - PISTON, FORWARD CLUTCH																
A	5196196	PISTON	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1230 - SEAL, FORWARD CLUTCH PISTON																
A	5196195	SEAL RING (2.016" I.D.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5196197	SEAL RING (4.120" I.D.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1235 - PLATE, FORWARD CLUTCH																
A	5196202	PLATE (INNER)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5196205	PLATE (OUTER)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5197160	PLATE	5	5	5	5	5	5	5	5	5	5	5	5	5	5

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1235 - PLATE, FORWARD CLUTCH (CONT'D)																
2A	5196203	PLATE (STEEL)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2A	5149809	PLATE (INNER)											5	5	5	5
9.1240 - SPRING, FORWARD CLUTCH RELEASE																
2A	5196201	SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196200	RING, SNAP (3" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196209	RING, SNAP (5 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1242 - HUB, FORWARD CLUTCH																
2A	5196206	HUB	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196207	RING, SNAP (1 21/32" DIA.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	218211	KEY, 1/4"X3/4" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1282 - PLATE, REDUCTION GEAR ADAPTOR																
2B	5199039	* PLATE (1.5:1 RED.)			1	1										
2C	5197335	PLATE (2:1 RED.)					1	1					1	1		
2C	5196247	@ PLATE (2:1 RED.)					1	1								
2D	5196248	PLATE (2.5:1 & 3:1 RED.)							1	1	1	1				
2B	5197338	PLATE (2.6:1 RED.)													1	1
2B,C	5199060	BOLT, 7/16"-14X1" (SPECIAL NYLON INSERT)			6	6	6	6					6	6		
2D	5199061	BOLT, 7/16"-14X1 1/4" (NYLON INSERT)							6	6	6	6			6	6
2B,C,D	114607	LOCKWASHER, 7/16" EXT. TOOTH (12.9210)			6	6	6	6	6	6	6	6	6	6	6	6
* USED WITH 5199063 BEARING IN 9.1087.																
@ THRU GEAR SERIAL 4327; USE 5197335 EFF. WITH 4328.																
9.1283 - GASKET, REDUCTION GEAR ADAPTOR PLATE																
2B,C,D	5196260	GASKET			1	1	1	1	1	1	1	1	1	1	1	1
9.1285 - HOUSING, REDUCTION GEAR																
2B	5197333	HOUSING (1.5:1 RED.)			1	1										
2B	5196282	& HOUSING (1.5:1 RED.)			1	1										
2B	5197334	# HOUSING (2:1 RED.)					1	1								
2C	5196283	# HOUSING (2:1 RED.)					1	1								
2D	5196284	HOUSING (2.5:1 & 3:1 RED.)							1	1	1	1				
2C	5149685	HOUSING (2.1:1 RED.)											1	1		
2B	5149684	HOUSING (2.6:1 RED.)													1	1
2B	103891	PLUG, 5/8" EXPANSION (12.9330)			1	1										
2B,C,D	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			6	6	6	6	6	6	6	6				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1285 - HOUSING, REDUCTION GEAR (CONT'D)														
B,C,D	427567	BOLT, 7/16"-14X1 3/4" (12.9001)			2	2	2	2	2	2	2	2	2	2	2	2
B,C,D	179857	BOLT, 7/16"-14X7/8" (12.9001)													2	2
B,C,D	180123	BOLT, 3/8"-16X1 1/8" (12.9001)											6	6	6	6
B,C,D	103321	LOCKWASHER, 3/8" (12.9200)			6	6	6	6	6	6	6	6	6	6	6	6
B,C,D	103322	LOCKWASHER, 7/16" (12.9200)			2	2	2	2	2	2	2	2	2	2	2	2
		& THRU GEAR SERIAL NO. 9421; USE 5197333 EFF. WITH 9422. # NOT SERVICED; FOR REPLACEMENT THRU GEAR SERIAL NO. 8482 USE 5199427 HOUSING CONVERSION KIT. USE 5199398 HOUSING FOR REPLACEMENT EFF. WITH GEAR SERIAL NO. 8483.														
		9.1286 - GASKET, REDUCTION GEAR HOUSING														
B,C,D	5196285	GASKET			1	1	1	1	1	1	1	1	1	1	1	1
		9.1287 - GEAR, REDUCTION GEAR INPUT														
B	5196251	GEAR (1.5:1 RED.)			1	1										
		9.1288 - PLATE, REDUCTION GEAR PLANETARY RING GEAR														
D	5196256	PLATE (2.5:1 RED.)							1	1					1	1
D	5196255	PLATE (3:1 RED.)									1	1				
		9.1290 - GEAR, REDUCTION GEAR SUN														
B	5196263	GEAR (1.5:1 RED.)			1	1										
C	5196264	GEAR (2:1 RED.)					1	1								
D	5196265	GEAR (2.5:1 RED.)							1	1					1	1
D	5196266	GEAR (3:1 RED.)									1	1				
C	5149687	GEAR (2.1:1 RED.)											1	1		
C	5196267	RING, SNAP (1 27/32" I.D.)					1	1					1	1		
D	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)							1	1	1	1			1	1
B	5196277	PIN (GEAR DRIVE)			1	1										
B	5196278	PIN, ROLL				1										
		9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY														
B	5196268	GEAR ASSY. (1.5:1 RED.)			1	1										
C	5196269	GEAR ASSY. (2:1 RED., L.H.) (2 DRILL SPOTS ON REAR FACE)					1									
C	5196288	GEAR ASSY. (2:1 RED., R.H.)						1								
D	5196270	* GEAR ASSY. (2.5:1 RED.) (10 SPLINES)							1	1						

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY (CONT'D)														
2D	5198141	% GEAR ASSY. (2.5:1 RED.) (24 SPLINES)							AR	AR						
2D	5196271	* GEAR ASSY. (3:1 RED.) (10 SPLINES)									1	1				
2D	5197880	GEAR ASSY. (3:1 RED.) (24 SPLINES)									AR	AR				
2C	5149701	GEAR ASSY. (2.1:1 RED.)											1			
2C	5149703	GEAR ASSY. (2.1:1 RED.)												1		
2B	5149825	GEAR ASSY. (2.6:1 RED.)													1	1
2B	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)			1	1										
		* NOT SERVICED; FOR REPLACEMENT USE 5198141 (2.5:1) OR 5197880 (3:1) GEAR ASSY. AND INCLUDE 1-9422151 BEARING IN 9.1350, 1-5198125 FLANGE IN 9.1430 AND 1-5198128 NUT IN 9.1435.														
		% NOT SERVICED, FOR SERVICE USE 5196544.														
		9.1293 - WASHER, REDUCTION GEAR PLANETARY GEAR THRUST														
2C	5196279	WASHER (2:1 RED.)					2	2					2	2		
		9.1298 - GEAR, REDUCTION GEAR PLANETARY RING														
2B,C,D	5196252	GEAR (1.5:1, 2:1, 3:1 RED.)			1	1	1	1			1	1	1	1		
2D	5196257	GEAR (2.5:1 RED.)							1	1					1	1
2B,C,D	5196253	RING, SNAP (6 1/4" O.D.)			1	1	1	1			1	1	1	1		
2D	5196258	RING, SNAP (6 17/32" O.D.)							1	1					1	1
		9.1340 - SHAFT, REDUCTION GEAR DRIVE														
2B	5196276	SHAFT (1.5:1 RED.)			1	1										
2C	5196273	SHAFT ASSY. (INCLUDES BUSHING) (2:1 RED.)					1	1								
2B	5149704	SHAFT ASSY. (INCLUDES BUSHING) (2.1:1 RED.)												1	1	
	5199829	BUSHING (2:1 RED.) (9.1087)					1	1						1	1	
		9.1350 - BEARING, REDUCTION GEAR OUTPUT SHAFT														
2B	5197342	BEARING	1	1											1	1
2B,C,D	9413343	* BEARING			1	1	1	1	1	1	1	1	1			
2D	9422151	* BEARING							AR	AR	AR	AR				
		* WITH 10 SPLINE GEAR IN 9.1292.														
		@ WITH 24 SPLINE GEAR IN 9.1292.														
		9.1351 - SPACER, REDUCTION GEAR DRIVE SHAFT BEARING														
	5149766	SPACER, BEARING											1	1	1	1
		9.1365 - COVER, REDUCTION GEAR BEARING														
2B,C,D	5196227	COVER	1	1												
2B,C,D	5196286	COVER			1	1	1	1	1	1	1	1				
2B,C,D	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	6	6	6	6	6	6	6	6	6	6				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
PART FIG ... NUMBER	NAME AND DESCRIPTION		A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1365 - COVER, REDUCTION GEAR BEARING (CONT'D)																
B,C,D 103322	LOCKWASHER, 7/16" (12.9200)		6	6	6	6	6	6	6	6	6	6				
9.1370 - GASKET, REDUCTION GEAR BEARING COVER																
B,C,D 5196228	GASKET		1	1												
B,C,D 5196287	GASKET				1	1	1	1	1	1	1	1				
9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL																
B,C,D 5199391	SEAL, OIL (DOUBLE LIP)		1	1	1	1	1	1	1	1	1	1				
B,C,D 5149676	SEAL, OIL												1	1	1	1
9.1380 - BAFFLE, MARINE GEAR OIL																
A 5196175	BAFFLE				1	1	1	1	1	1	1	1	1	1	1	1
A 5196894	BAFFLE		1	1												
A 5149682	BAFFLE														1	1
A 5149674	BAFFLE, OIL												1	1	1	1
9.1395 - DIPSTICK, MARINE GEAR																
A 5196176	% * DIPSTICK (FILLER CAP)		1	1	1	1	1	1	1	1	1	1				
5133364	@ DIPSTICK (FILLER PLUG)		1	1	1	1	1	1	1	1	1	1				
A 5149100	DIPSTICK												1	1	1	1
	* PRIOR TO GEAR SERIAL NOS. 16338 (D.D.) 883 (1.5:1), 672 (2:1), 1614 (2.5:1) AND 367 (3:1).															
	@ EFFECTIVE WITH GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5:1), 672 (2:1), 1614 (2.5:1) AND 367 (3:1). NOT SERVICED USE 5149100 & 1-5149061 ADAPTOR.															
	% OBSOLETE.															
9.1410 - TUBE, MARINE GEAR OIL FILLER																
5196174	* TUBE (WITH FILLER CAP TYPE DIPSTICK)		1	1	1	1	1	1	1	1	1	1				
5149061	TUBE												1	1	1	1
	* PRIOR TO GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5:1), 672 (2:1), 1614 (2.5:1) & 367 (3:1).															
9.1430 - FLANGE, PROPELLER DRIVE																
B,C,D 5196796	# FLANGE (3 1/4" B.C.) (1"-1 1/2" SHAFT)		1		1	1	1	1	1	1	1	1				
B,C,D 5196745	FLANGE (4 1/4" B.C.) (NOT PART OF GEAR ASSY. USED IN PLACE OF 5196796 WITH 1 3/4"-2 1/4" SHAFT)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1430 - FLANGE, PROPELLER DRIVE (CONT'D)														
2D	5198125	& FLANGE (4 1/4" B.C., 24 SPLINES) # WITH 10 SPLINE GEAR ASSY. IN 9.1292. & WITH 24 SPLINE GEAR ASSY. IN 9.1292.							AR	AR	AR					
		9.1435 - NUT, PROPELLER DRIVE FLANGE														
2B,C,D	5196805	# NUT	1	1	1	1	1	1	1	1	1	1				
1D	5198128	& NUT							AR	AR	AR	AR				
2B,C,D	5149767	NUT # WITH 10 SPLINE GEAR ASSY. IN 9.1292. & WITH 24 SPLINE GEAR ASSY. IN 9.1292.											1	1	1	1
		9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR OIL														
2A	5198459	@ PUMP ASSY. (INCLUDES SEAL IN 9.1505)	1	1	1	1	1	1	1	1	1	1				
2A	5196889	% PUMP ASSY. (INCLUDES SCREW IN 9.1475 AND SEAL IN 9.1505)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5198270	@ KEY, 3/16" FLANGED	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	431787	% KEY, 3/16" X 5/8" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1				
2A	110533	% SCREW, #10-24 X 3/4" FL. HD. SL. (12.9030)	2	2	2	2	2	2	2	2	2	2				
2A	180083	@ BOLT, 5/16"-18 X 1 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4				
2A	186648	% BOLT, 5/16"-18 X 1 7/8" (12.9001)	4	4	4	4	4	4	4	4	4	4				
2A	180082	BOLT, 5/16"-18 X 1 3/8" (12.9001) @ EFF. WITH GEAR SERIAL NOS. 26656 (D.D.), 6260 (1.5:1), 2882 (2:1), & 571 (3:1). % THRU GEAR SERIAL NOS. 26655 (D.D.), 6259 (1.5:1), 2381 (2:1).											4	4	4	4
		9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP														
2A	5196216	GASKET	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP														
2A	5199315	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5149675	SEAL, OIL												1		

9.1000A HYDRAULIC MARINE GEAR

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

COLUMN

			A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1650 - STRAINER, MARINE GEAR OIL																
A	5197331	STRAINER	1	1												
A	5196895	STRAINER	1	1												
A	5198456	STRAINER			1	1	1	1	1	1	1	1			1	1
A	120428	GASKET, 1" ANNULAR (12.9360)			1	1	1	1	1	1	1	1				
A	5145014	PLUG, 3/8" PIPE (12.9550)	1	1									1	1	1	1
A	5142549	PLUG, 3/4" PIPE (12.9550)			1	1	1	1					1	1		
A	453006	PLUG, 1" PIPE (12.9550)			1	1	1	1	1	1	1	1				
A	5145009	PLUG, 1/8" PIPE (12.9550)											1	1	1	1
	5199386	DEFLECTOR, OIL (IN MAIN HOUSING)					1	1					1	1		
	5198458	PIPE, OIL STRAINER	1	1			1	1							1	1
	5199388	SPRING, OIL DEFLECTOR					1	1					1	1		
	5199387	WASHER, DEFLECTOR SPRING					1	1					1	1		
	5198457	BUSHING, 3/4"X3/8" RED.	1	1			1	1							1	1
9.1840 - BREATHER, MARINE GEAR																
A	5198454	BREATHER (.338" DRIVE TYPE)	1	1	1	1	1	1					1	1	1	1
A	5197510	BREATHER (1/2" DRIVE TYPE)	1	1	1	1	1	1	1	1	1	1				
A	5196177	BREATHER (3/8"-18 THREAD)	1	1	1	1	1	1	1	1	1	1				

9.1000A HYDRAULIC MARINE GEAR

PART		COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1001 - GEAR ASSY., HYDRAULIC MARINE															
	5129455	# GEAR ASSY. (DIRECT DRIVE, L.H.)	1												
	5129456	# GEAR ASSY. (DIRECT DRIVE, R.H.)		1											
1A	5134073	# GEAR ASSY. (2.5:1 RED., R.H.)			1										
1A	5134100	# GEAR ASSY. (2.5:1 RED., L.H.)				1									
1A	5134074	# GEAR ASSY. (3:1 RED., R.H.)					1								
1A	5134101	# GEAR ASSY. (3:1 RED., L.H.)						1							
	5106314	GEAR ASSY. (DIRECT DRIVE R.H.)							1						
	5106315	GEAR ASSY. (DIRECT DRIVE L.H.)								1					
1A	5106325	GEAR ASSY. (2:1 RED., L.H.)									1				
1B	5130522	# GEAR ASSY. (2:1 RED., L.H.)										1			
		# NOT SERVICED; SHOWN FOR REFERENCE ONLY.													
9.1007 - ADAPTOR, MARINE GEAR HOUSING															
2A	5196179	* ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1							
2A	5198322	@ ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1			
2A	455724	BEARING (NEEDLE)	1	1	1	1	1	1	1	1	1	1			
2A	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1	1	1	1	1	1			
2A	5197537	BOLT, 3/8"-16X1 1/4" 12 PT. HD.	4	4	4	4	4	4	4	4	4	4			
		* THRU GEAR SERIAL NO. 2407 (2.5:1), 102 (3:1).													
		@ EFFECTIVE WITH GEAR SERIAL NO. 2408 (2.5:1) AND 103 (3:1).													
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR															
2A	5196181	GASKET	1	1	1	1	1	1	1	1	1	1			
9.1010 - HOUSING, MARINE GEAR															
		A HOUSING ASSY. INCLUDES BUSHING 9.1010 AND TUBE IN 9.1410.													
2A	5196892	& HOUSING ASSY. (DIRECT DRIVE)	1	1											
2A	5198094	HOUSING ASSY. (REDUCTION DRIVE)			1	1	1								
2A	5149808	HOUSING ASSY. (DIRECT DRIVE)							1	1					
2A	5149754	HOUSING ASSY. (REDUCTION DRIVE)									1				
2A	5198096	HOUSING ASSY. (REDUCTION DRIVE)											1		
2A	5196511	BUSHING (OUTPUT SHAFT)	2	2	2	2	2	2	2	2	2	2			
	5197336	+ BUSHING (OUTPUT SHAFT)											2		
	5149826	PLATE, NAME							1						
	5149827	PLATE, NAME								1					
	5149843	PLATE, NAME									1				
	5197210	+ PLATE, NAME											1		
2A	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1			
2A	5145014	PLUG, 3/8" PIPE (12.9550)	2	2	2	2	2	2	1	1	1	1			
	9421745	PLUG (1/2" CUP)			1	1	1	1							
	5198461	PLUG (.338" DIA. CUP)			1	1	1	1							
2A	190073	SCREW, #2X3/16" (12.9067)							2	2	2	2			
		& NOT SERVICED; REPLACE WITH 1-5198093 HOUSING, 2-5196730													
		PLATE, 3-3712718 DOWEL PINS, 1-5149100 DIPSTICK & 1-5149061													
		ADAPTOR.													
		+ OBSOLETE.													

9.1000A HYDRAULIC MARINE GEAR

			COLUMN											
PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			A	B	C	D	E	F	G	H	I	J	K	M
9.1026 - SHAFT, MARINE GEAR INPUT														
2A	5196192	* SHAFT	1	1										
2A	5198371	SHAFT										1		
	5198244	SHAFT ASSY. (INCLUDES FLANGED KEY IN 9.1475)			1	1	1	1	1	1	1			
		* OBSOLETE.												

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1027 - BEARING, MARINE GEAR INPUT SHAFT																
2A	9413342	BEARING	1	1	1	1	1	1								
2A	9416195	BEARING							1	1	1	1				
2A	3709351	RING, SNAP (1 1/4" I.D.)	1	1	1	1	1	1								
2A	5196193	RING, SNAP (2 1/4" I.D.)	1	1	1	1	1	1								
2A	5196545	RING, SNAP							1	1	1	1				
2A	5196543	RING, SNAP							1	1	1	1				
9.1030 - PISTON, REVERSE CLUTCH																
2A	5196183	PISTON	1	1	1	1	1	1	1	1	1	1				
9.1035 - SEAL, REVERSE CLUTCH PISTON																
2A	5196188	SEAL, RING (3 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1				
2A	5196180	SEAL, RING (7 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1				
9.1045 - PLATE, REVERSE CLUTCH																
2A	5196303	PLATE	1	1	1	1	1	1	1	1	2	2				
2A	5196185	PLATE (SPLINED)	2	2												
2A	5196730	PLATE (SPLINED)			2	2	2	2				3				
2A	5149757	PLATE							2	2	3					
9.1055 - SPRING, REVERSE CLUTCH RELEASE																
2A	5196186	SPRING	12	12	12	12	12	12	12	12	12	12				
9.1060 - PLATE, REVERSE CLUTCH REACTION																
2A	5196184	PLATE	1	1	1	1	1	1	1	1	1	1				
2A	5196187	PIN	3	3												
2A	3712718	PIN (.623"L)			3	3	3	3	3	3	3					
2A	5196733	PIN (27/32"L)											3			
9.1080 - GEAR ASSY., MARINE GEAR PLANETARY																
INCLUDES BUSHINGS IN 9.1087.																
2A	5196210	GEAR ASSY. (DIRECT DRIVE)	1	1												
2A	5196246	GEAR ASSY. (2.5:1 & 3:1 RED.)			1	1	1	1								
2A	5197209	GEAR ASSY. (2:1 RED.)										1				
9.1081 - CAGE, PLANETARY GEAR																
2A	5149812	CAGE PINION AND SHAFT ASSY.							1	1						
2A	5149815	CAGE PINION AND SHAFT ASSY.									1					
2A	5149702	CAGE PINION AND SHAFT DRIVEN ASSY.										1				
2A	5196804	CAGE PINION AND SHAFT ASSY. (9.1080)													1	
2A	5196272	SCREEN, PLANETARY GEAR (9.1080)													1	
2A	5197230	BOLT, 5/16"-18X3/4" (9.1080)													6	
2A	103320	LOCKWASHER, 5/16" (12.9200)													6	

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

.COLUMN

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

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1087 - BEARING, MARINE GEAR PLANETARY GEAR																
2D	5196226	BEARING (2.5:1 & 3:1 RED.) (9.1350)			1	1	1	1								
2D	5197342	BEARING										1				
	5199829	BUSHING	2	2	2	2	2	2	2	2	2	1				
2D	5196259	RING, SNAP (1 27/64" DIA.)			1	1	1	1				1				
9.1091 - GEAR, MARINE GEAR PLANETARY RING																
2A	5196208	GEAR	1	1	1	1	1	1								
2A	5196199	RING, SNAP (5 7/8" O.D.)	1	1	1	1	1	1	1	1	1	1				
2A	5196549	GEAR, RING							1	1	1	1				
9.1093 - SHAFT, MARINE GEAR OUTPUT																
INCLUDES BUSHING IN 9.1087																
	5149821	SHAFT AND BUSHING ASSY.							1	1						
	5149818	SHAFT AND BUSHING ASSY.									1					
9.1097 - BEARING, OUTPUT SHAFT																
2B	5149679	CUP, BEARING										1				
2B	5149677	CUP, BEARING										1				
2B	5149678	CONE, BEARING										1				
2B	5149680	CONE, BEARING										1				
9.1135 - VALVE ASSY., SELECTOR																
INCLUDES ITEMS IN 9.1137 THRU 9.1160																
2A	5196217	VALVE ASSY.	1	1	1	1	1	1					1			
2A	5149763	VALVE ASSY.							1	1	1					
9.1137 - VALVE, SELECTOR																
2A	5196218	VALVE	1	1	1	1	1	1	1	1	1	1				
2A	5149673	VALVE							1	1	1					
9.1155 - SPRING, SELECTOR VALVE																
2A	5196219	SPRING	1	1	1	1	1	1					1			
2A	5149764	SPRING							1	1	1					
2A	5196220	RETAINER, SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196212	RING, SNAP	1	1	1	1	1	1	1	1	1	1				
9.1157 - CAM, NEUTRAL																
2A	5149936	CAM							1	1	1					
2A	179796	BOLT, 1/4"-20X7/8" (12.9001)							3	3	3					
2A	103321	LOCKWASHER, 1/4" (12.9200)							3	3	3					
9.1160 - SEAL, SELECTOR VALVE OIL																
2A	5196222	SEAL RING	1	1	1	1	1	1	1	1	1	1				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1175 - LEVER, SELECTOR VALVE															
2A	5197136	LEVER	1	1	1	1	1	1	1	1	1	1			
2A	5149768	SWITCH AND COVER ASSY.							1	1	1	1			
2A	5196221	SPRING (DETENT)	1	1	1	1	1	1	1	1	1	1			
2A	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1	1	1			
2A	120393	WASHER, 5/16" (12.9190)	1	1	1	1	1	1	1	1	1	1			
2A	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1	1	1	1	1	1			
2A	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1	1	1	1	1	1			
9.1178 - COVER, SELECTOR VALVE															
2A	5196224	COVER	1	1	1	1	1	1				1			
2A	5149765	COVER							1	1	1				
2A	186676	BOLT, 1/4"-20X5/8" (12.9001)	3	3	3	3	3	3				3			
3A	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3				3			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1179 - GASKET, SELECTOR VALVE COVER																
2A	5196225	GASKET	1	1	1	1	1	1	1	1	1	1				
9.1223 - CYLINDER, FORWARD CLUTCH PISTON																
2A	5196194	CYLINDER	1	1	1	1	1	1								
2A	5196546	CYLINDER							1	1	1	1				
2A	5196198	SEAL RING (ON INPUT SHAFT)	2	2	2	2	2	2	2	2	2	2				
2A	5149755	SEAL RING							4	4	4					
9.1224 - WASHER, FORWARD CLUTCH CYLINDER THRUST																
2A	5196881	WASHER, .063" THICK	1	1	1	1	1	1	1	1	1	1				
9.1225 - PISTON, FORWARD CLUTCH																
2A	5196196	PISTON	1	1	1	1	1	1	1	1	1	1				
9.1230 - SEAL, FORWARD CLUTCH PISTON																
2A	5196195	SEAL RING (2.016" I.D.)	1	1	1	1	1	1	1	1	1	1				
2A	5196197	SEAL RING (4.120" I.D.)	1	1	1	1	1	1	1	1	1	1				
9.1235 - PLATE, FORWARD CLUTCH																
2A	5196202	PLATE (INNER)	1	1	1	1	1	1	1	1	1	1				
2A	5196205	PLATE (OUTER)	1	1	1	1	1	1	1	1	1	1				
2A	5197160	PLATE	5	5	5	5	5	5								
2A	5196203	PLATE (STEEL)	4	4	4	4	4	4	6	6	6	6				
2A	5149809	PLATE (INNER)							7	7	7					
2A	5149758	PLATE ASSY.							1	1	1					
2A	5196770	SHIM (SNAP RING) (.050")							1	1	1	1				
2A	5196771	SHIM (SNAP RING) (.075")							1	1	1	1				
2A	5196772	SHIM (SNAP RING) (.100")							1	1	1	1				
2A	5149759	SNAP RING (12.9645)							1	1	1					
9.1240 - SPRING, FORWARD CLUTCH RELEASE																
2A	5196201	SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196200	RING, SNAP (3/8" DIA.)	1	1	1	1	1	1	1	1	1	1				
2A	5196209	RING, SNAP (5 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1				
9.1242 - HUB, FORWARD CLUTCH																
2A	5196206	HUB	1	1	1	1	1	1								
2A	5196547	HUB							1	1	1	1				
2A	5196207	RING, SNAP (1 21/32" DIA.)	1	1	1	1	1	1	1	1						
2A	218211	KEY, 1/4"X3/4" WOODRUFF (12.9350)	1	1	1	1	1	1								
2A	124553	KEY, 1/4"X1" WOODRUFF (12.9350)											1			
9.1282 - PLATE, REDUCTION GEAR ADAPTOR																
2A	5197338	PLATE (2.5:1 & 3:1 RED.)			1	1	1	1			1					
2C	5198554	PLATE (1.9:1 RED.)										1				
2B,C	5199060	BOLT, 7/16"-14X1" (NYLON INSERT)											6			
2D	5199061	BOLT, 7/16"-14X1 1/4" (NYLON INSERT)			6	6	6	6								

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
.FIG . . .	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
	9.1282	PLATE, REDUCTION GEAR ADAPTOR (CONT'D)													
2B,C,D	114607	LOCKWASHER, 7/16" EXT. TOOTH (12.9210)			6	6	6	6			6	6			

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		9.1283 - GASKET, REDUCTION GEAR ADAPTOR PLATE													
B,C,D	5196260	GASKET			1	1	1	1			1	1			
		9.1285 - HOUSING, REDUCTION GEAR													
D	5197337	HOUSING (2.5:1 & 3:1 RED.)			1	1	1	1							
B	5149684	HOUSING									1				
B	5197334	# HOUSING (2:1 RED.)											1		
B,D	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			6	6	6	6				6			
B,D	427567	BOLT, 7/16"-14X1 3/4" (12.9001)			2	2	2	2			2	2			
B	180123	BOLT, 3/8"-16X1 1/8" (12.9001)									6	6			
B,D	103321	LOCKWASHER, 3/8" (12.9200)			6	6	6	6			6	6			
B,D	103322	LOCKWASHER, 7/16" (12.9200)			2	2	2	2			2	2			
		# NOT SERVICED. FOR REPLACEMENT THRU GEAR SERIAL NO. 6443 USE 5199427 HOUSING CONVERSION KIT. USE 5199398 HOUSING FOR REPLACEMENT EFFECTIVE WITH GEAR SERIAL NO. 6444.													
		9.1286 - GASKET, REDUCTION GEAR HOUSING													
B,C,D	5196285	GASKET			1	1	1	1			1	1			
		9.1288 - PLATE, REDUCTION GEAR PLANETARY RING GEAR													
D	5196256	PLATE (2.5:1 RED.)			1	1									
D	5196255	PLATE (3:1 RED.)					1	1			1				
		9.1290 - GEAR, REDUCTION GEAR SUN													
D	5196265	GEAR (2.5:1 RED.)			1	1									
D	5196266	GEAR (3:1 RED.)					1	1			1	1			
D	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)			1	1	1	1			1	1			
		9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY													
D	5198141	* GEAR ASSY. (2.5:1 RED.)			1	1									
D	5197880	GEAR ASSY. (3:1 RED.)					1	1							
		* NOT SERVICED, FOR SERVICE USE 5196544.													
		9.1298 - GEAR, REDUCTION GEAR PLANETARY RING													
B,C,D	5196252	GEAR (1.5:1, 2:1, 3:1 RED.)					1	1			1	1			
D	5196257	GEAR (2.5:1 RED.)			1	1									
B,C,D	5196253	RING, SNAP (6 1/4" O.D.)					1	1			1	1			
D	5196258	RING, SNAP (6 17/32" O.D.)			1	1									
		9.1340 - SHAFT, REDUCTION GEAR DRIVE													
B	5197211	SHAFT										1			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1350 - BEARING, REDUCTION GEAR OUTPUT SHAFT															
2B	5197342	BEARING	1	1							1				
2B,C,D	9422151	BEARING			1	1	1	1							
2B,C,D	5199316	BEARING								1					
2B,C,D	9413343	BEARING										1			
9.1351 - SPACER, REDUCTION GEAR DRIVE SHAFT BEARING															
5149766		SPACER									1				
9.1365 - COVER, REDUCTION GEAR BEARING															
2B,C,D	5196227	COVER	1	1											
2B,C,D	5196286	COVER			1	1	1	1					1		
2B,C,D	5196765	COVER								1	1				
2B,C,D	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	6	6	6	6	6	6					6		
2B,C,D	454933	BOLT, 7/16"-14X1 1/8" (12.9001)								6	6				
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6		6	6	6			
9.1370 - GASKET, REDUCTION GEAR BEARING COVER															
2B,C,D	5196228	GASKET	1	1											
2B,C,D	5196287	GASKET			1	1	1	1				1			
2B,C,D	5196766	GASKET								1	1				
9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL															
2B,C,D	5199391	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1		1			
2B,C,D	5149676	SEAL, OIL										1			
9.1380 - BAFFLE, MARINE GEAR OIL															
2A	5196894	BAFFLE	1	1											
2A	5196175	BAFFLE			1	1	1	1	1	1	1	1			
9.1386 - BAFFLE, REDUCTION HOUSING OIL															
2A	5149682	BAFFLE, OIL										1			
	5149674	BAFFLE, OIL										1			
	179857	BOLT, 7/16"-14X7/8" (12.9001)										2			
9.1395 - DIPSTICK, REDUCTION GEAR															
2A	5196176	% DIPSTICK (FILLER CAP) (WITH 5196892 HOUSING)	1	1											
	5133364	* DIPSTICK (FILLER PLUG) (WITH 5198093 OR 5198094 HOUSING)	1	1	1	1	1	1		1	1				
2A	5149802	DIPSTICK										1	1		
2A	5149100	DIPSTICK													
		* NOT SERVICED USE 5149100 PLUS 1-5149061 ADAPTOR.													
		% OBSOLETE.													

9.1000A HYDRAULIC MARINE GEAR

		COLUMN												
PART FIG ... NUMBER ... NAME AND DESCRIPTION		A	B	C	D	E	F	G	H	I	J	K	L	M
9.1410 - TUBE, REDUCTION GEAR OIL FILLER														
	5196174													
	5149061													
	* ADAPTOR, DIPSTICK (3/4"-14 PIPE)													
	* USE WITH 5149100 IN 5198093 OR 5198094 HOUSING.													
9.1430 - FLANGE, PROPELLER DRIVE														
B,C,D	5196796													
B,C,D	5196745													
	FLANGE (3 1/4" B.C.) (1"-1 1/2" SHAFT)													
	FLANGE (4 1/4" B.C.) (NOT PART OF GEAR ASSY., USED IN PLACE OF 5196796 WITH 1 3/4"-2 1/4" SHAFT)													

9.1000A HYDRAULIC MARINE GEAR

			COLUMN											
PART			A	B	C	D	E	F	G	H	I	J	K	L
.FIG . . . NUMBER NAME AND DESCRIPTION														
9.1430 - FLANGE, PROPELLER DRIVE (CONT'D)														
2D	5198125	FLANGE (4 1/4" B.C., 24 SPLINES)			1	1	1	1						
9.1435 - NUT, PROPELLER DRIVE FLANGE														
2B,C,D	5196805	NUT	1	1					1	1		1		
2D	5198128	NUT			1	1	1	1			1			
2B,C,D	5149767	NUT									1			
9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR OIL														
2A	5196214	PUMP ASSY. (INCLUDES SCREW IN 9.1475 AND SEAL IN 9.1505)	1	1										
2A	5196889	# PUMP ASSY. (INCLUDES SCREW IN 9.1475 AND SEAL IN 9.1505)			1	1	1	1	1	1	1			
2A	5198459	* PUMP ASSY. (INCLUDES SEAL IN 9.1505)			1	1	1	1					1	
2A	431787	# KEY, 3/16" X 5/8" WOODRUFF (12.9350)	1	1	1	1	1	1						
	5198270	* KEY, 3/16" FLANGED			1	1	1	1	1	1	1	1		
2A	110533	# SCREW, #10-24X3/4" FL. HD. SL. (12.9030)	2	2	2	2	2	2						
2A	180083	* BOLT, 5/16"-18X1 1/2" (12.9001)			1	1	1	1						
2A	179822	# BOLT, 5/16"-18X1 7/8" (12.9001)	4	4	4	4	4	4						
2A	180082	BOLT, 5/16"-18X1 3/8" (12.9001)							4	4	4	4		
		# THRU GEAR SERIAL NO. 2407 (2.5:1), 101 (3:1).												
		* EFFECTIVE WITH GEAR SERIAL NO. 2408 (2.5:1), 102 (3:1).												
9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP														
2A	5196216	GASKET	1	1	1	1	1	1	1	1	1	1		
9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP														
2A	5196215	SEAL, OIL	1	1										
2A	5199315	SEAL, OIL (DOUBLE LIP)			1	1	1	1	1	1	1	1		
2A	5149675	+ SEAL, OIL							1	1	1			
		+ OPTIONAL												
9.1650 - STRAINER, MARINE GEAR OIL														
2A	5196895	STRAINER	1	1										
	5198456	STRAINER			1	1	1	1	1	1	1	1		
	120428	GASKET, 1" ANNULAR (12.9360)			1	1	1	1	1	1	1	1		

9.1000A HYDRAULIC MARINE GEAR

		COLUMN												
PART		A	B	C	D	E	F	G	H	I	J	K	L	M
.FIG . . . NUMBER NAME AND DESCRIPTION														
9.1650 - STRAINER, MARINE GEAR OIL (CONT'D)														
A	5145014	PLUG, 3/8" PIPE (12.9550)	1	1										
	453006	PLUG, 1" PIPE (12.9550)			1	1	1							
	5198457	BUSHING, 3/4"X3/8" RED. PIPE	1	1				1	1	1	1			
	5198458	TUBE, TRANSMISSION OIL RETURN				1		1	1	1	1			
9.1840 - BREATHER, MARINE GEAR														
A	5198454	BREATHER (.338" DRIVE TYPE)	1	1	1	1	1	1	1	1	1			
A	5197510	BREATHER (1/2" DRIVE TYPE)	1	1	1	1	1	1						
A	5196177	BREATHER (3/8"-18 THREAD)	1	1	1	1	1	1						

9.1000A HYDRAULIC MARINE GEAR

			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1001 - GEAR ASSY., HYDRAULIC MARINE															
1B	5127847	+ GEAR ASSY. (DIRECT DRIVE, L.H.)	1												
1B	5127851	+ GEAR ASSY. (DIRECT DRIVE, R.H.)		1											
1B	5127848	+ GEAR ASSY. (1.5:1 RED., L.H.)			1										
1B	5127852	+ GEAR ASSY. (1.5:1 RED., R.H.)				1									
1B	5126825	+ GEAR ASSY. (2:1 RED., L.H.)					1								
1B	5126824	+ GEAR ASSY. (2:1 RED., R.H.)						1							
1B	5127853	+ GEAR ASSY. (2.5:1 RED., R.H.)							1						
1B	5127849	+ GEAR ASSY. (2.5:1 RED., L.H.)								1					
1B	5127854	+ GEAR ASSY. (3:1 RED., R.H.)									1				
1B	5127850	+ GEAR ASSY. (3:1 RED., L.H.)										1			
		+ NOT SERVICED, SHOWN FOR REFERENCE ONLY.													
9.1007 - ADAPTOR, MARINE GEAR HOUSING															
2A	5196179	ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1			
2A	455724	BEARING (NEEDLE)	1	1	1	1	1	1	1	1	1	1			
2A	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1	1	1	1	1	1			
2A	5197537	BOLT, 3/8"-16X1 1/4" 12 PT. HD.	4	4	4	4	4	4	4	4	4	4			
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR															
2A	5196181	GASKET	1	1	1	1	1	1	1	1	1	1			
9.1010 - HOUSING, MARINE GEAR															
		A HOUSING ASSY. INCLUDES BUSHING IN 9.1010 & TUBE IN 9.1410.													
2A	5196767	* HOUSING ASSY. (DIRECT DRIVE)	1	1											
2A	5196775	@ HOUSING ASSY. (RED. DRIVE)			1	1	1	1	1	1	1	1			
2A	5196511	BUSHING (OUTPUT SHAFT)	2	2	2	2	2	2	2	2	2	2			
2A	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1			
2A	5145014	PLUG, 3/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1			
	9421745	PLUG (1/2" CUP) (12.9330)							1	1	1	1			
	5198461	PLUG (.338" DIA. CUP)							1	1	1	1			
		* OBSOLETE.													
		@ NOT SERVICED; REPLACE WITH													
		1-5198096 HOUSING, 3-5196730													
		PLATE, 1-5196303 PLATE, 3-5196733													
		DOWEL PINS, 1-5149100 DIPSTICK &													
		1-5149061 ADAPTOR.													
9.1026 - SHAFT, MARINE GEAR INPUT															
2A	5196542	SHAFT	1	1	1	1	1	1	1	1	1	1			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1027 - BEARING, MARINE GEAR INPUT SHAFT																
1A	9416195	BEARING	1	1	1	1	1	1	1	1	1	1				
1A	5196543	RING, SNAP (1 29/64" I.D.)	1	1	1	1	1	1	1	1	1	1				
1A	5196545	RING, SNAP (2 29/64" I.D.)	1	1	1	1	1	1	1	1	1	1				
9.1030 - PISTON, REVERSE CLUTCH																
1A	5196183	PISTON	1	1	1	1	1	1	1	1	1	1				
9.1035 - SEAL, REVERSE CLUTCH PISTON																
1A	5196188	SEAL RING (3 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1				
1A	5196180	SEAL RING (7 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1				
9.1045 - PLATE, REVERSE CLUTCH																
1A	5196730	PLATE (SPLINED)	2	2	2	2	2	2	2	2	2	2				
1A	5196303	PLATE	1	1	1	1	1	1	1	1	1	1				
9.1055 - SPRING, REVERSE CLUTCH RELEASE																
1A	5196186	SPRING	12	12	12	12	12	12	12	12	12	12				
9.1060 - PLATE, REVERSE CLUTCH REACTION																
1A	5196184	PLATE	1	1	1	1	1	1	1	1	1	1				
1A	5196187	PIN	3	3	3	3	3	3	3	3	3	3				
9.1080 - GEAR ASSY., MARINE GEAR PLANETARY																
INCLUDES BUSHINGS IN 9.1087.																
1A	5196550	GEAR ASSY. (DIRECT DRIVE)	1	1												
1A	5196801	* GEAR ASSY. (1.5:1 RED.)			1	1										
1A	5196544	GEAR ASSY. (2:1 RED.)					1	1								
1A	5196804	GEAR ASSY. (2.5:1 & 3:1 RED.)							1	1	1	1				
* CAN ONLY BE USED WHEN HOUSING INCLUDES BUSHINGS.																
9.1085 - WASHER, MARINE GEAR PLANETARY GEAR THRUST																
1A	5196211	WASHER (1 3/4" O.D.)	1	1	1	1	1	1	1	1	1	1				
1A	5196213	WASHER (2 5/8" O.D.) (1.5:1 & 2:1)			1	1	1	1								

9.1000A HYDRAULIC MARINE GEAR

FIG	PART NUMBER	NAME AND DESCRIPTION	COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1087 - BEARING, MARINE GEAR PLANETARY GEAR														
2B	5199063	BEARING (1.5:1 RED.) (GROOVED)				1	1									
2D	5197342	BEARING (2.5:1 & 3:1 RED.) (9.1350)							1	1	1	1				
2B	5196254	RING, SNAP (2 1/16" DIA.)				1	1									
2D	5196259	RING, SNAP (1 27/64" DIA.)							1	1	1	1				
		9.1091 - GEAR, MARINE GEAR PLANETARY RING														
2A	5196549	GEAR	1	1	1	1	1	1	1	1	1	1				
2A	5196199	RING, SNAP (5 7/8" O.D.)	1	1	1	1	1	1	1	1	1	1				
		9.1135 - VALVE ASSY., SELECTOR														
2A	5196217	VALVE ASSY. (INCLUDES ITEMS IN 9.1137 THRU 9.1160)	1	1	1	1	1	1	1	1	1	1				
		9.1137 - VALVE, SELECTOR														
2A	5196218	VALVE	1	1	1	1	1	1	1	1	1	1				
		9.1155 - SPRING, SELECTOR VALVE														
2A	5196219	SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196220	RETAINER, SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196212	RING, SNAP	1	1	1	1	1	1	1	1	1	1				
		9.1160 - SEAL, SELECTOR VALVE OIL														
2A	5196222	SEAL RING	1	1	1	1	1	1	1	1	1	1				
		9.1175 - LEVER, SELECTOR VALVE														
2A	5197136	LEVER	1	1	1	1	1	1	1	1	1	1				
2A	5196221	SPRING (DETENT)	1	1	1	1	1	1	1	1	1	1				
2A	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1	1	1				
2A	103340	WASHER, 5/16" (12.9190)	1	1	1	1	1	1	1	1	1	1				
2A	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1	1	1	1	1	1				
2A	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1	1	1	1	1	1				
		9.1178 - COVER, SELECTOR VALVE														
2A	5196224	COVER	1	1	1	1	1	1	1	1	1	1				
2A	186630	BOLT, 1/4"-20X5/8" (12.9001)	3	3	3	3	3	3	3	3	3	3				
2A	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3	3	3	3	3				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1179 - GASKET, SELECTOR VALVE COVER																
2A	5196225	GASKET	1	1	1	1	1	1	1	1	1	1				
9.1223 - CYLINDER, FORWARD CLUTCH PISTON																
2A	5196546	CYLINDER	1	1	1	1	1	1	1	1	1	1				
2A	5196198	SEAL RING (ON INPUT SHAFT)	2	2	2	2	2	2	2	2	2	2				
9.1224 - WASHER, FORWARD CLUTCH CYLINDER THRUST																
2A	5196881	WASHER (.063" THICK)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				
2A	5196882	WASHER (.087" THICK)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				
9.1225 - PISTON, FORWARD CLUTCH																
2A	5196196	PISTON	1	1	1	1	1	1	1	1	1	1				
9.1230 - SEAL, FORWARD CLUTCH PISTON																
2A	5196195	SEAL RING (2.016" I.D.)	1	1	1	1	1	1	1	1	1	1				
2A	5196197	SEAL RING (4.120" I.D.)	1	1	1	1	1	1	1	1	1	1				
9.1235 - PLATE, FORWARD CLUTCH																
2A	5196202	PLATE (INNER)	1	1	1	1	1	1	1	1	1	1				
2A	5196205	PLATE (OUTER)	1	1	1	1	1	1	1	1	1	1				
2A	5197160	PLATE	7	7	7	7	7	7	7	7	7	7				
2A	5196203	PLATE (STEEL)	6	6	6	6	6	6	6	6	6	6				
	5196770	SHIM (SNAP RING) (.050")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				
	5196771	SHIM (SNAP RING) (.075")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				
	5196772	SHIM (SNAP RING) (.100")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				
9.1240 - SPRING, FORWARD CLUTCH RELEASE																
2A	5196201	SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196200	RING, SNAP (3" DIA.)	1	1	1	1	1	1	1	1	1	1				
2A	5196209	RING, SNAP (5 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1				
9.1242 - HUB, FORWARD CLUTCH																
2A	5196547	HUB	1	1	1	1	1	1	1	1	1	1				
2A	5196207	RING, SNAP (1 21/32" DIA.)	1	1	1	1	1	1	1	1	1	1				
2A	124553	KEY, 1/4"X1" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1282 - PLATE, REDUCTION GEAR ADAPTOR															
2B	5199039	* PLATE (1.5:1 RED.)			1	1									
2C	5196247	PLATE (2:1 RED.)					1	1							
2D	5196248	PLATE (2.5:1 & 3:1 RED.)							1	1	1	1			
2B,D	5199060	BOLT, 7/16"-14X1" (NYLON INSERT)			6	6	6	6							
2D	5199061	BOLT, 7/16"-14X1 1/4" (NYLON INSERT)							6	6	6	6			
2B,C,D	114607	LOCKWASHER, 7/16" EXT. TOOTH (12.9210)			6	6	6	6	6	6	6	6			
* REQUIRES 5199063 BEARING IN 9.1087.															
9.1283 - GASKET, REDUCTION GEAR ADAPTOR PLATE															
2B,C,D	5196260	GASKET			1	1	1	1	1	1	1	1			
9.1285 - HOUSING, REDUCTION GEAR															
2B	5197333	HOUSING (1.5:1 RED.)			1	1									
2C	5196283	# HOUSING (2:1 RED.)					1	1							
	5197334	# HOUSING (2:1 RED.)					1	1							
2D	5196284	HOUSING (2.5:1 & 3:1 RED.)							1	1	1	1			
2B	103891	PLUG, 5/8" EXPANSION (12.9330)			1	1									
2B,C,D	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			6	6	6	6	6	6	6	6			
2B,C,D	427567	BOLT, 7/16"-14X1 3/4" (12.9001)			2	2	2	2	2	2	2	2			
2B,C,D	103321	LOCKWASHER, 3/8" (12.9200)			6	6	6	6	6	6	6	6			
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)			2	2	2	2	2	2	2	2			
# NOT SERVICED, FOR REPLACEMENT THRU GEAR SERIAL NO. 6443 USE 5199427 HOUSING CONVERSION KIT. USE 5199398 HOUSING FOR REPLACEMENT EFFECTIVE WITH GEAR SERIAL NO. 6444.															
9.1286 - GASKET, REDUCTION GEAR HOUSING															
2B,C,D	5196285	GASKET			1	1	1	1	1	1	1	1			
9.1287 - GEAR, REDUCTION GEAR INPUT															
B	5196251	GEAR (1.5:1 RED.)			1	1									
9.1288 - PLATE, REDUCTION GEAR PLANETARY RING GEAR															
D	5196256	PLATE (2.5:1 RED.)							1	1					
D	5196255	PLATE (3:1 RED.)									1	1			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1290 - GEAR, REDUCTION GEAR SUN																
2B	5196263	GEAR (1.5:1 RED.)			1	1										
2C	5196264	GEAR (2:1 RED.)					1	1								
2D	5196265	GEAR (2.5:1 RED.)							1	1						
2D	5196266	GEAR (3:1 RED.)									1	1				
2C	5196267	RING, SNAP (1 27/32" I.D.)					1	1								
2D	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)							1	1	1	1				
2B	5196277	PIN (GEAR DRIVE)			1	1										
2B	5196278	PIN, ROLL			1	1										
9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY																
2B	5196268	GEAR ASSY. (1.5:1 RED.)			1	1										
2C	5196269	GEAR ASSY. (2:1 RED., L.H.) (2 DRILL SPOTS ON REAR FACE)					1									
2C	5196288	GEAR ASSY. (2:1 RED., R.H.)						1								
2D	5196270	* GEAR ASSY. (2.5:1 RED.) (10 SPLINES)							1	1						
2D	5198141	% GEAR ASSY. (2.5:1 RED.) (24 SPLINES)							AR	AR						
2D	5196271	* GEAR ASSY. (3:1 RED.) (10 SPLINES)									1	1				
2D	5197780	GEAR ASSY. (3:1 RED.) (24 SPLINES)									AR	AR				
2B	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)			1	1										
* NOT SERVICED; FOR REPLACEMENT USE 5198141 (2.5:1) OR 5197780 (3:1) GEAR ASSY. AND INCLUDE 1-9422151 BEARING IN 9.1350, 1-5198125 FLANGE IN 9.1430 AND 1-5198128 NUT IN 9.1435.																
% NOT SERVICED, FOR SERVICE USE 5196544.																
9.1293 - WASHER, REDUCTION GEAR PLANETARY GEAR THRUST																
2C	5196279	WASHER (2:1 RED.)					2	2								
9.1298 - GEAR, REDUCTION GEAR PLANETARY RING																
2B,C,D	5196252	GEAR (1.5:1, 2:1, 3:1 RED.)			1	1	1	1			1	1				
2D	5196257	GEAR (2.5:1 RED.)							1	1						
2B,C,D	5196253	RING, SNAP (6 1/4" O.D.)			1	1	1	1			1	1				
2D	5196258	RING, SNAP (6 17/32" O.D.)							1	1						
9.1340 - SHAFT, REDUCTION GEAR DRIVE																
2B	5196276	SHAFT (1.5:1 RED.)			1	1										
2C	5196273	SHAFT ASSY. (INCLUDES BUSHING) (2:1 RED.)						1	1							
	5199829	BUSHING (2:1 RED.) (9.1087)			1	1	1	1								

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1350 - BEARING, REDUCTION GEAR OUTPUT SHAFT														
	9414818	BEARING	1	1												
2B,C,D	9413343	@ BEARING			1	1	1	1	1	1	1	1				
2D	9422151	# BEARING							AR	AR	AR	AR				
		@ WITH 10 SPLINE GEAR IN 9.1292.														
		# WITH 24 SPLINE GEAR IN 9.1292.														
		9.1365 - COVER, REDUCTION GEAR BEARING														
	5196765	COVER	1	1												
2B,C,D	5196286	COVER			1	1	1	1	1	1	1	1				
	454933	BOLT, 7/16"-14X1 1/8" (12.9001)	6	6												
2B,C,D	193221	BOLT, 7/16"-14X1 1/4" (12.9001)			6	6	6	6	6	6	6	6				
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6				
		9.1370 - GASKET, REDUCTION GEAR BEARING COVER														
	5196766	GASKET	1	1												
2B,C,D	5196287	GASKET			1	1	1	1	1	1	1	1				
		9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL														
2B,C,D	5199391	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1	1	1				
		9.1380 - BAFFLE, MARINE GEAR OIL														
2A	5196175	BAFFLE	1	1	1	1	1	1	1	1	1	1				
		9.1395 - DIPSTICK, REDUCTION GEAR														
2A	5196176	% DIPSTICK (FILLER CAP) (WITH HOUSING 5196767 OR 5196775)	1	1	1	1	1	1	1	1	1	1				
	5133364	* DIPSTICK (FILLER PLUG) (WITH HOUSING 5198095 OR 5198096)	1	1	1	1	1	1	1	1	1	1				
		* NOT SERVICED USE 5149100 PLUS 1-5149061 ADAPTOR WITH 5198095 OR 5198096 HOUSING ONLY.														
		% OBSOLETE.														
		9.1410 - TUBE, REDUCTION GEAR OIL FILLER														
	5196174	TUBE (WITH FILLER CAP TYPE DIPSTICK)	1	1	1	1	1	1	1	1	1	1				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1430 - FLANGE, PROPELLER DRIVE																
2B,C,D	5196796	# FLANGE (3 1/4"B.C.) (1"-1 1/2" SHAFT)	1	1	1	1	1	1	1	1	1	1				
2B,C,D	5196745	FLANGE (4 1/4"B.C.) (NOT PART OF GEAR ASSY., USED IN PLACE OF 5196796 WITH 1 3/4"-2 1/4" SHAFT)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				
2D	5198125	* FLANGE (4 1/4"B.C., 24 SPLINES) # WITH 10 SPLINE GEAR ASSY. IN 9.1292. * WITH 24 SPLINE GEAR ASSY. IN 9.1292.							AR	AR	AR	AR				
9.1435 - NUT, PROPELLER DRIVE FLANGE																
2B,C,D	5196805	# NUT	1	1	1	1	1	1	1	1	1	1				
1D	5198128	NUT # WITH 10 SPLINE GEAR ASSY. IN 9.1292. * WITH 24 SPLINE GEAR ASSY. IN 9.1292.							AR	AR	AR	AR				
9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR OIL																
2A	5196214	PUMP ASSY. (INCLUDES SCREW IN 9.1475 AND SEAL IN 9.1505)	1	1	1	1	1	1	1	1	1	1				
2A	431787	KEY, 3/16"X5/8" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1				
2A	110533	SCREW, #10-24X3/4" FL. HD. SL. (12.9030)	2	2	2	2	2	2	2	2	2	2				
2A	186648	BOLT, 5/16"-18X1 7/8" (12.9001)	4	4	4	4	4	4	4	4	4	4				
9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5196216	GASKET	1	1	1	1	1	1	1	1	1	1				
9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5196215	SEAL, OIL	1	1	1	1	1	1	1	1	1	1				
9.1650 - STRAINER, MARINE GEAR OIL																
2A	5196178	@ STRAINER	1	1	1	1	1	1	1	1	1	1				
2A	5196883	& STRAINER	1	1	1	1	1	1	1	1	1	1				
2A	120428	GASKET, 1" ANNULAR (12.9360)	1	1	1	1	1	1	1	1	1	1				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1650 - STRAINER, MARINE GEAR OIL (CONT'D)														
	5196890	& BUSHING, REDUCING	1	1												
2A	453006	@ PLUG, 1" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1				
		@ PRIOR TO GEAR SERIAL NO. 106 ON 1:1 RATIO. & EFFECTIVE WITH GEAR SERIAL NO. 106 ON 1:1 RATIO.														
		9.1840 - BREATHER, MARINE GEAR														
2A	5198454	BREATHER (.338" DRIVE TYPE)	1	1	1	1	1	1								
2A	5197510	BREATHER (1/2" DRIVE TYPE)	1	1	1	1	1	1	1	1	1	1				
2A	5196177	BREATHER (3/8"-18 THREAD)	1	1	1	1	1	1	1	1	1	1				

9.1000A HYDRAULIC MARINE GEAR

			COLUMN														
PART	FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1001 - GEAR ASSY., HYDRAULIC MARINE																	
1B	5108250	+	GEAR ASSY. (DIRECT DRIVE, L.H.)	1													
1B	5108255	+	GEAR ASSY. (DIRECT DRIVE, R.H.)		1												
1A,B	5108251	+	GEAR ASSY. (1.5:1 RED., L.H.)			1											
1B	5108256	+	GEAR ASSY. (1.5:1 RED., R.H.)				1										
1B	5108252	+	GEAR ASSY. (2:1 RED., L.H.)					1									
1A,B	5108257	+	GEAR ASSY. (2:1 RED., R.H.)						1								
1A	5108253	+	GEAR ASSY. (2.5:1 RED., L.H.)							1							
1A,B	5108258	+	GEAR ASSY. (2.5:1 RED., R.H.)								1						
1A,B	5108254	+	GEAR ASSY. (3:1 RED., L.H.)									1					
1A,B	5108259	+	GEAR ASSY. (3:1 RED., R.H.)										1				
+ NOT SERVICED, SHOWN FOR REFERENCE ONLY.																	
9.1007 - ADAPTOR, MARINE GEAR HOUSING																	
2A	5196179		ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1	1			
2A	455724		BEARING (NEEDLE)	1	1	1	1	1	1	1	1	1	1	1			
2A	5121182		PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1	1	1	1	1	1	1			
2A	5197537		BOLT, 3/8"-16X1 1/4" 12 PT. HD.	4	4	4	4	4	4	4	4	4	4	4			
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR																	
2A	5196181		GASKET	1	1	1	1	1	1	1	1	1	1	1			
9.1010 - HOUSING, MARINE GEAR																	
A HOUSING ASSY. INCLUDES BUSHING IN 9.1010 AND TUBE IN 9.1410.																	
2A	5196731	*	HOUSING ASSY. (DIRECT DRIVE)	1	1												
2A	5196966	@	HOUSING ASSY. (RED. DRIVE)			1	1	1	1	1	1	1	1	1			
2A	5196511		BUSHING (OUTPUT SHAFT)	2	2	2	2	2	2	2	2	2	2	2			
2A	5145009		PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1	1			
2A	5145014		PLUG, 3/8" PIPE (12.9550)	2	2	2	2	2	2	2	2	2	2	2			
	9421745		PLUG, 1/2" DIA. CUP								1	1	1	1			
	5198461		PLUG, .338" DIA. CUP								1	1	1	1			
* OBSOLETE.																	
@ NOT SERVICED; REPLACE WITH 5198096 HOUSING, 5149100 DIPSTICK & 1-5149061 ADAPTOR.																	
9.1026 - SHAFT, MARINE GEAR INPUT																	
2A	5196542		SHAFT	1	1	1	1	1	1	1	1	1	1	1			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1027 - BEARING, MARINE GEAR INPUT SHAFT															
2A	9416195	BEARING	1	1	1	1	1	1	1	1	1	1			
2A	5196543	RING, SNAP (1 29/64" I.D.)	1	1	1	1	1	1	1	1	1	1			
2A	5196545	RING, SNAP (2 29/64" I.D.)	1	1	1	1	1	1	1	1	1	1			
9.1030 - PISTON, REVERSE CLUTCH															
2A	5196183	PISTON	1	1	1	1	1	1	1	1	1	1			
9.1035 - SEAL, REVERSE CLUTCH PISTON															
2A	5196188	SEAL RING (3 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1			
2A	5196180	SEAL RING (7 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1			
9.1045 - PLATE, REVERSE CLUTCH															
2A	5196730	PLATE (SPLINED)	2	2	3	3	3	3	3	3	3	3			
2A	5196303	PLATE	1	1	2	2	2	2	2	2	2	2			
9.1055 - SPRING, REVERSE CLUTCH RELEASE															
2A	5196186	SPRING	12	12	12	12	12	12	12	12	12	12			
9.1060 - PLATE, REVERSE CLUTCH REACTION															
2A	5196184	PLATE	1	1	1	1	1	1	1	1	1	1			
	3712718	PIN (5/8"L.)	3	3											
2A	5196733	PIN (27/32"L.)			3	3	3	3	3	3	3	3			
9.1080 - GEAR ASSY., MARINE GEAR PLANETARY															
ASSY. INCLUDES BUSHINGS IN 9.1087.															
2A	5196550	GEAR ASSY. (DIRECT DRIVE)	1	1		1									
2A	5196801	GEAR ASSY. (1.5:1 RED.)					1								
2A	5196544	GEAR ASSY. (2:1 RED.)						1							
2A	5196804	GEAR ASSY. (2.5:1 & 3:1 RED.)							1	1	1	1			
9.1085 - WASHER, MARINE GEAR PLANETARY GEAR THRUST															
2A	5196211	WASHER (1 3/4" O.D.)	1	1	1	1	1	1	1	1	1	1			
2A	5196213	WASHER (2 5/8" O.D.)			1	1	1	1							

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1087 - BEARING, MARINE GEAR PLANETARY GEAR														
2B	5199063	BEARING (1.5:1 RED.)			1	1										
2D	5197342	BEARING (2.5:1 & 3:1 RED.)							1	1	1	1				
2B	5196254	RING, SNAP (2 1/16" DIA.)			1	1										
2D	5196259	RING, SNAP (1 27/64" DIA.)							1	1	1	1				
	5199829	BUSHING	2	2	3	3	2	2	2	2	2	2				
		9.1091 - GEAR, MARINE GEAR PLANETARY RING														
2A	5196549	GEAR	1	1	1	1	1	1	1	1	1	1				
2A	5196199	RING, SNAP (5 7/8" O.D.)	1	1	1	1	1	1	1	1	1	1				
		9.1135 - VALVE ASSY., SELECTOR														
2A	5196217	VALVE ASSY. (INCLUDES ITEMS IN 9.1137 THRU 9.1160)	1	1	1	1	1	1	1	1	1	1				
		9.1137 - VALVE, SELECTOR														
2A	5196218	VALVE	1	1	1	1	1	1	1	1	1	1				
		9.1155 - SPRING, SELECTOR VALVE														
2A	5196219	SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196220	RETAINER, SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196212	RING, SNAP	1	1	1	1	1	1	1	1	1	1				
		9.1160 - SEAL, SELECTOR VALVE OIL														
2A	5196222	SEAL RING	1	1	1	1	1	1	1	1		1				
		9.1175 - LEVER, SELECTOR VALVE														
2A	5197136	LEVER	1	1	1	1	1	1	1	1	1	1				
2A	5196221	SPRING (DETENT)	1	1	1	1	1	1	1	1	1	1				
2A	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1	1	1				
2A	103340	WASHER, 5/16" (12.9190)	1	1	1	1	1	1	1	1	1	1				
2A	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1	1	1	1	1	1				
2A	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1	1	1	1	1	1				
		9.1178 - COVER, SELECTOR VALVE														
2A	5196224	COVER	1	1	1	1	1	1	1	1	1	1				
2A	186630	BOLT, 1/4"-20X5/8" (12.9001)	3	3	3	3	3	3	3	3	3	3				
2A	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3	3	3	3	3				

9.1000A HYDRAULIC MARINE GEAR

		COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		9.1179 - GASKET, SELECTOR VALVE COVER													
A	5196225	GASKET	1	1	1	1	1	1	1	1	1	1			
		9.1223 - CYLINDER, FORWARD CLUTCH PISTON													
A	5196546	CYLINDER	1	1	1	1	1	1	1	1	1	1			
A	5196198	SEAL RING (ON INPUT SHAFT)	2	2	2	2	2	2	2	2	2	2			
		9.1224 - WASHER, FORWARD CLUTCH CYLINDER THRUST													
A	5196881	WASHER, .063" THICK	1	1	AR	AR	AR	AR	1	1	1	1			
A	5196882	WASHER, .087" THICK			AR	AR	AR	AR							
		9.1225 - PISTON, FORWARD CLUTCH													
A	5196196	PISTON	1	1	1	1	1	1	1	1	1	1			
		9.1230 - SEAL, FORWARD CLUTCH PISTON													
A	5196195	SEAL RING, 2.016" I.D.	1	1	1	1	1	1	1	1	1	1			
A	5196197	SEAL RING, 4.120" I.D.	1	1	1	1	1	1	1	1	1	1			
		9.1235 - PLATE, FORWARD													
A	5196202	PLATE (INNER)	1	1	1	1	1	1	1	1	1	1			
A	5196205	PLATE (OUTER)	1	1	1	1	1	1	1	1	1	1			
A	5197160	PLATE	7	7	7	7	7	7	7	7	7	7			
A	5196203	PLATE (STEEL)	6	6	6	6	6	6	6	6	6	6			
	5196770	SHIM (SNAP RING) (.050")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
	5196771	SHIM (SNAP RING) (.075")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
	5196772	SHIM (SNAP RING) (.100)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
		9.1240 - SPRING, FORWARD CLUTCH RELEASE													
A	5196201	SPRING	1	1	1	1	1	1	1	1	1	1			
A	5196200	RING, SNAP (3" DIA.)	1	1	1	1	1	1	1	1	1	1			
A	5196209	RING, SNAP (5 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1			
		9.1242 - HUB, FORWARD CLUTCH													
A	5196547	HUB	1	1	1	1	1	1	1	1	1	1			
A	5196207	RING, SNAP (1 21/32" DIA.)	1	1	1	1	1	1	1	1	1	1			
A	124553	KEY, 1/4"X1" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1282 - PLATE, REDUCTION GEAR ADAPTOR																
2B	5199039	* PLATE (1.5:1 RED.)			1	1										
2C	5196247	PLATE (2:1 RED.)					1	1								
2D	5196248	PLATE (2.5:1 & 3:1 RED.)							1	1	1	1				
2B,C	5199060	BOLT, 7/16"-14X1" (NYLON INSERT)			6	6	6	6								
2D	5199061	BOLT, 7/16"-14X1 1/4" (NYLON INSERT)							6	6	6	6				
2B,C,D	114607	LOCKWASHER, 7/16" EXT. TOOTH (12.9210)			6	6	6	6	6	6	6	6				
* REQUIRES 5199063 BEARING IN 9.1080.																
9.1283 - GASKET, REDUCTION GEAR ADAPTER																
2B,C,D	5196260	GASKET			1	1	1	1	1	1	1	1				
9.1285 - HOUSING, REDUCTION GEAR																
2B	5197333	HOUSING (1.5:1 RED.)			1	1										
2C	5196283	# HOUSING (2:1 RED.)					1	1								
	5197334	# HOUSING (2:1 RED.)					1	1								
2D	5196284	HOUSING (2.5:1 & 3:1 RED.)							1	1	1	1				
2B	103891	PLUG, 5/8" EXPANSION (12.9330)			1	1										
2B,C,D	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			6	6	6	6	6	6	6	6				
2B,C,D	427567	BOLT, 7/16"-14X1 3/4" (12.9001)			2	2	2	2	2	2	2	2				
2B,C,D	103321	LOCKWASHER, 3/8" (12.9200)			6	6	6	6	6	6	6	6				
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)			2	2	2	2	2	2	2	2				
# NOT SERVICED, FOR REPLACEMENT THRU GEAR SERIAL NO. 6443 USE 5199427 HOUSING CONVERSION KIT. USE 5199398 HOUSING FOR REPLACEMENT EFFECTIVE WITH GEAR SERIAL NO. 6444.																
9.1286 - GASKET, REDUCTION GEAR HOUSING																
2B,C,D	5196285	GASKET			1	1	1	1	1	1	1	1				
9.1287 - GEAR, REDUCTION GEAR INPUT																
2B	5196251	GEAR (1.5:1 RED.)			1	1										
9.1288 - PLATE, REDUCTION GEAR PLANETARY RING GEAR																
2D	5196256	PLATE (2.5:1 RED.)							1	1						
2D	5196255	PLATE (3:1 RED.)									1	1				

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1290 - GEAR, REDUCTION GEAR SUN															
B	5196263	GEAR (1.5:1 RED.)			1	1									
C	5196264	GEAR (2:1 RED.)					1	1							
D	5196265	GEAR (2.5:1 RED.)							1	1					
D	5196266	GEAR (3:1 RED.)									1	1			
C	5196267	RING, SNAP (1 27/32" I.D.)					1	1							
D	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)							1	1	1	1			
B	5196277	PIN (GEAR DRIVE)			1	1									
B	5196278	PIN, ROLL			1	1									
9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY															
B	5196268	GEAR ASSY. (1.5:1 RED.)			1	1									
C	5196269	GEAR ASSY. (2:1 RED., L.H.) (2 DRILL SPOTS ON REAR FACE)					1								
C	5196288	GEAR ASSY. (2:1 RED., R.H.)						1							
D	5196270	* GEAR ASSY. (2.5:1 RED.) (10 SPLINES)							1	1					
D	5198141	% GEAR ASSY. (2.5:1 RED.) (24 SPLINES)							AR	AR					
D	5196271	* GEAR ASSY. (3:1 RED.) (10 SPLINES)									1	1			
D	5197880	GEAR ASSY. (3:1 RED.) (24 SPLINES)									AR	AR			
B	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)			1	1									
* NOT SERVICED; FOR REPLACEMENT USE 5198141 (2.5:1) OR 5197880 (3:1) GEAR ASSY. AND INCLUDE 1-9422151 BEARING IN 9.1350, 1-5198125 FLANGE IN 9.1430 AND 1-5198128 NUT IN 9.1435.															
% NOT SERVICED, FOR SERVICE USE 5196544.															
9.1293 - WASHER, REDUCTION GEAR PLANETARY GEAR THRUST															
D	5196279	WASHER (2:1 RED.)					2	2							
9.1298 - GEAR, REDUCTION GEAR PLANETARY RING															
B,C,D	5196252	GEAR (1.5:1, 2:1, 3:1 RED.)			1	1	1	1			1	1			
D	5196257	GEAR (2.5:1 RED.)							1	1					
B,C,D	5196253	RING, SNAP (6 1/4" O.D.)			1	1	1	1			1	1			
D	5196258	RING, SNAP (6 17/32" O.D.)							1	1					
9.1340 - SHAFT, REDUCTION GEAR DRIVE															
B	5196276	SHAFT (1.5:1 RED.)			1	1									
D	5196273	SHAFT ASSY. (INCLUDES BUSHING) (2:1 RED.)						1	1						
	5199829	BUSHING (2:1 RED.) (9.1087)						1	1						

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1350 - BEARING, REDUCTION GEAR OUTPUT SHAFT														
	9414818	BEARING	1	1												
2B,C,D	9413343	@ BEARING			1	1	1	1	1	1	1	1	1			
2D	9422151	BEARING							AR	AR	AR	AR				
		@ WITH 10 SPLINE GEAR IN 9.1292.														
		# WITH 24 SPLINE GEAR IN 9.1292.														
		9.1365 - COVER, REDUCTION GEAR BEARING														
	5196765	COVER	1	1												
2B,C,D	5196286	COVER			1	1	1	1	1	1	1	1				
	454933	BOLT, 7/16"-14X1 1/8" (12.9001)	6	6												
2B,C,D	193221	BOLT, 7/16"-14X1 1/4" (12.9001)			6	6	6	6	6	6	6	6	6			
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6	6			
		9.1370 - GASKET, REDUCTION GEAR BEARING COVER														
	5196766	GASKET	1	1												
2B,C,D	5196287	GASKET			1	1	1	1	1	1	1	1				
		9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL														
2B,C,D	5199391	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1	1	1				
		9.1380 - BAFFLE, MARINE GEAR OIL														
2A	5196175	BAFFLE	1	1	1	1	1	1	1	1	1	1				
		9.1395 - DIPSTICK, REDUCTION GEAR														
2A	5196176	% DIPSTICK (FILLER CAP) (WITH HOUSING 5196966 OR 5196731)	1	1	1	1	1	1	1	1	1	1				
	5133364	* DIPSTICK (FILLER PLUG) (WITH HOUSING 5198095 OR 5198096)	1	1	1	1	1	1	1	1	1	1				
		* NOT SERVICED, USE 5149100 PLUS 1-5149061 ADAPTOR.														
		% OBSOLETE.														
		9.1410 - TUBE, REDUCTION GEAR OIL FILLER														
	5196174	TUBE (WITH FILLER CAP TYPE DIPSTICK)	1	1	1	1	1	1	1	1	1	1				
		9.1430 - FLANGE, PROPELLER DRIVE														
2B,C,D	5196745	* FLANGE (4 1/4"B.C.)	1	1	1	1	1	1	1	1	1	1				
2D	5198125	@ FLANGE (4 1/4"B.C., 24 SPLINES)							AR	AR	AR	AR				
		* WITH 10 SPLINE GEAR ASSY. IN 9.1292.														

9.1000A HYDRAULIC MARINE GEAR

PART FIG ... NUMBER ... NAME AND DESCRIPTION			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1430 - FLANGE, PROPELLER DRIVE (CONT'D)														
		@ WITH 24 SPLINE GEAR ASSY. IN 9.1292.														
		9.1435 - NUT, PROPELLER DRIVE FLANGE														
B,C,D	5196805	* NUT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D	5198128	@ NUT							AR	AR	AR	AR				
		* WITH 10 SPLINE GEAR ASSY. IN 9.1292.														
		@ WITH 24 SPLINE GEAR ASSY. IN 9.1292.														
		9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR OIL														
A	5196214	PUMP ASSY. (INCLUDES SCREW IN 9.1475 & SEAL IN 9.1505)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	431787	KEY, 3/16"x5/8" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	110533	SCREW, #10-24X3/4" FL. HD. SL. (12.9030)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
A	186648	BOLT, 5/16"-18X1 7/8" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP														
A	5196216	GASKET	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP														
A	5196215	SEAL, OIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		9.1650 - STRAINER, MARINE GEAR OIL														
A	5196883	STRAINER	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	120428	GASKET, 1" ANNULAR (12.9360)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5145014	PLUG, 3/8" PIPE (12.9550)	1	1												
A	453006	PLUG, 1" PIPE (12.9550)			1	1	1	1	1	1	1	1	1	1	1	1
A	5196890	BUSHING, REDUCING	1	1												
		9.1840 - BREATHER, MARINE GEAR														
A	5198454	BREATHER (.338" DRIVE TYPE)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5196177	BREATHER (3/8"-18 THREAD)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5197510	BREATHER (1/2" DRIVE TYPE)	1	1	1	1	1	1	1	1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			COLUMN												
			A	B	C	D	E	F	G	H	I	J	K	L	M
9.1001 - GEAR ASSY., HYDRAULIC MARINE															
	5129545	# GEAR ASSY. (DIRECT DRIVE, L.H.)	1												
	5129550	# GEAR ASSY. (DIRECT DRIVE, R.H.)		1											
1A,B	5129546	# GEAR ASSY. (1.5:1 RED., L.H.)			1										
1A,B	5129551	# GEAR ASSY. (1.5:1 RED., R.H.)				1									
1A,B	5129547	# GEAR ASSY. (2:1 RED., L.H.)					1								
1A,B	5129552	# GEAR ASSY. (2:1 RED., R.H.)						1							
1A,B	5129548	# GEAR ASSY. (2.5:1 RED., L.H.)							1						
1A,B	5129553	# GEAR ASSY. (2.5:1 RED., R.H.)								1					
1A,B	5129549	# GEAR ASSY. (3:1 RED., L.H.)									1				
1A,B	5129554	# GEAR ASSY. (3:1 RED., R.H.)										1			
		# NOT SERVICED; SHOWN FOR REFERENCE ONLY.													
9.1007 - ADAPTOR, MARINE GEAR HOUSING															
2A	5198322	@ ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196179	* ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	455724	BEARING (NEEDLE)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5197537	BOLT, 3/8"-16X1 1/4" 12 PT. HD.	4	4	4	4	4	4	4	4	4	4	4	4	4
		@ EFF. WITH GEAR SERIAL NO. 4351 (D.D.); 1850 (1.5:1), 2261 (2:1). * THRU GEAR SERIAL NO. 4350 (D.D.); 1894 (1.5:1), 2620 (2:1).													
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR															
2A	5196181	GASKET	1	1	1	1	1	1	1	1	1	1	1	1	1
9.1010 - HOUSING, MARINE GEAR															
		A HOUSING ASSY. INCLUDES BUSHING IN 9.1010 & TUBE IN 9.1410.													
2A	5196731	& HOUSING ASSY. (DIRECT DRIVE)	1	1											
2A	5198095	% & HOUSING ASSY. (DIRECT DRIVE)	1	1											
2A	5196966	= HOUSING ASSY. (REDUCTION DRIVE)			1	1	1	1	1	1	1	1	1	1	1
2A	5198096	% HOUSING ASSY. (REDUCTION DRIVE)			1	1	1	1	1	1	1	1	1	1	1
2A	5196511	BUSHING (OUTPUT SHAFT)	2	2	2	2	2	2	2	2	2	2	2	2	2
2A	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5145014	PLUG, 3/8" PIPE (12.9550)	2	2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG (1/2" CUP) (12.9330)							1	1	1	1	1	1	1
		& OBSOLETE.													

9.1000A HYDRAULIC MARINE GEAR

FIG	PART NUMBER	NAME AND DESCRIPTION	COLUMN												
			A	B	C	D	E	F	G	H	I	J	K	L	M
		9.1010 - HOUSING, MARINE GEAR (CONT'D)													
		% EFF. WITH GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5 1), 672 (2 1), 1614 (2.5 1) & 367 (3 1).													
		= NOT SERVICED REPLACE WITH 5198096 HOUSING, 5149100 DIPSTICK & 5149061 ADAPTOR.													
		9.1026 - SHAFT, MARINE GEAR INPUT													
A	5198371	SHAFT	1	1	1	1	1	1	1	1	1	1			
		9.1027 - BEARING, MARINE GEAR INPUT SHAFT													
A	9416195	BEARING	1	1	1	1	1	1	1	1	1	1			
A	5196543	RING, SNAP (1 29/64" I.D.)	1	1	1	1	1	1	1	1	1	1			
A	5196545	RING, SNAP (2 29/64" I.D.)	1	1	1	1	1	1	1	1	1	1			
		9.1030 - PISTON, REVERSE CLUTCH													
A	5196183	PISTON	1	1	1	1	1	1	1	1	1	1			
		9.1035 - SEAL, REVERSE CLUTCH PISTON													
A	5196188	SEAL RING (3 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1			
A	5196180	SEAL RING (7 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1			
		9.1045 - PLATE, REVERSE CLUTCH													
A	5196730	PLATE (SPLINED)	2	2	3	3	3	3	3	3	3	3			
A	5196303	PLATE	1	1	2	2	2	2	2	2	2	2			
		9.1055 - SPRING, REVERSE CLUTCH RELEASE													
A	5196186	SPRING	12	12	12	12	12	12	12	12	12	12			
		9.1060 - PLATE, REVERSE CLUTCH REACTION													
A	5196184	PLATE	1	1	1	1	1	1	1	1	1	1			
A	3712718	PIN (6.23"L.)	3	3											
A	5196733	PIN (27/32"L.)			3	3	3	3	3	3	3	3			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1080 - GEAR ASSY., MARINE GEAR PLANETARY																
INCLUDES BUSHINGS IN 9.1087.																
2A	5196550	GEAR ASSY. (DIRECT DRIVE)	1	1												
2A	5196801	GEAR ASSY. (1.5:1 RED.)			1	1										
2A	5196544	GEAR ASSY. (2:1 RED.)					1	1								
2A	5196804	GEAR ASSY. (2.5:1 & 3:1 RED.)							1	1	1	1				
9.1085 - WASHER, MARINE GEAR PLANETARY GEAR THRUST																
2A	5196211	WASHER (1 3/4"O.D.)	1	1	1	1	1	1	1	1	1	1				
2A	5196213	WASHER (2 5/8"O.D.)			1	1	1	1								
9.1087 - BEARING, MARINE GEAR PLANETARY GEAR																
2B	5199063	BEARING (1.5:1 RED.)				1	1									
2D	5197342	BEARING (2.5:1 & 3:1 RED.) (9.1350)							1	1	1	1				
2D	5196259	RING, SNAP (1 27/64" DIA.)							1	1	1	1				
2B	5196254	RING, SNAP (2 1/16" DIA.)				1	1									
	5199829	BUSHING	2	2	3	3	2	2	2	2	2	2				
9.1091 - GEAR, MARINE GEAR PLANETARY RING																
2A	5196549	GEAR	1	1	1	1	1	1	1	1	1	1				
2A	5196199	RING, SNAP (5 7/8"O.D.)	1	1	1	1	1	1	1	1	1	1				
9.1135 - VALVE ASSY., SELECTOR																
2A	5196217	VALVE ASSY. (INCLUDES ITEMS IN 9.1137 THRU 9.1160)	1	1	1	1	1	1	1	1	1	1				
9.1137 - VALVE, SELECTOR																
2A	5196218	VALVE	1	1	1	1	1	1	1	1	1	1				
9.1155 - SPRING, SELECTOR VALVE																
2A	5196219	SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196220	RETAINER, SPRING	1	1	1	1	1	1	1	1	1	1				
2A	5196212	RING, SNAP	1	1	1	1	1	1	1	1	1	1				
9.1160 - SEAL, SELECTOR VALVE OIL																
2A	5196222	SEAL RING	1	1	1	1	1	1	1	1	1	1				

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1175 - LEVER, SELECTOR VALVE															
2A	5197136	LEVER	1	1	1	1	1	1	1	1	1	1			
2A	5196221	SPRING (DETENT)	1	1	1	1	1	1	1	1	1	1			
2A	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1	1	1			
2A	103340	WASHER, 5/16" FLAT (12.9190)	1	1	1	1	1	1	1	1	1	1			
2A	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1	1	1	1	1	1			
2A	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1	1	1	1	1	1			
9.1178 - COVER, SELECTOR VALVE															
2A	5196224	COVER	1	1	1	1	1	1	1	1	1	1			
2A	186630	BOLT, 1/4"-20X5/8" (12.9001)	3	3	3	3	3	3	3	3	3	3			
2A	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3	3	3	3	3			
9.1179 - GASKET, SELECTOR VALVE COVER															
2A	5196225	GASKET	1	1	1	1	1	1	1	1	1	1			
9.1223 - CYLINDER, FORWARD CLUTCH PISTON															
2A	5196546	CYLINDER	1	1	1	1	1	1	1	1	1	1			
2A	5196198	SEAL RING (ON INPUT SHAFT)	2	2	2	2	2	2	2	2	2	2			
9.1224 - WASHER, FORWARD CLUTCH CYLINDER THRUST															
2A	5196881	WASHER, .063" THICK	1	1	AR	AR	AR	AR	1	1	1	1			
2A	5196882	WASHER, .087" THICK			AR	AR	AR	AR							
9.1225 - PISTON, FORWARD CLUTCH															
2A	5196196	PISTON	1	1	1	1	1	1	1	1	1	1			
9.1230 - SEAL, FORWARD CLUTCH PISTON															
2A	5196195	SEAL RING, 2.016" I.D.	1	1	1	1	1	1	1	1	1	1			
2A	5196197	SEAL RING, 4.120" I.D.	1	1	1	1	1	1	1	1	1	1			
9.1235 - PLATE, FORWARD CLUTCH															
2A	5196202	PLATE (INNER)	1	1	1	1	1	1	1	1	1	1			
2A	5196205	PLATE (OUTER)	1	1	1	1	1	1	1	1	1	1			
2A	5197160	PLATE	7	7	7	7	7	7	7	7	7	7			

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
PART .FIG . . . NUMBER NAME AND DESCRIPTION			A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1235 - PLATE, FORWARD CLUTCH (CONT'D)																
2A	5196203	PLATE (STEEL)	6	6	6	6	6	6	6	6	6	6	6			
	5196770	SHIM (SNAP RING) (.050")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
	5196771	SHIM (SNAP RING) (.075")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
	5196772	SHIM (SNAP RING) (.100")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
9.1240 - SPRING, FORWARD CLUTCH RELEASE																
2A	5196201	SPRING	1	1	1	1	1	1	1	1	1	1	1			
2A	5196200	RING, SNAP (3" DIA.)	1	1	1	1	1	1	1	1	1	1	1			
2A	5196209	RING, SNAP (5 1/2" DIA.)	1	1	1	1	1	1	1	1	1	1	1			
9.1242 - HUB, FORWARD CLUTCH																
2A	5196547	HUB	1	1	1	1	1	1	1	1	1	1	1			
2A	5196207	RING, SNAP (1 21/32" DIA.)	1	1	1	1	1	1	1	1	1	1	1			
2A	124553	KEY, 1/4"X1" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1	1			
9.1282 - PLATE, REDUCTION GEAR ADAPTOR																
2B	5199039	* PLATE (1.5:1 RED.)			1	1										
2C	5197335	PLATE (2:1 RED.)					1	1								
2C	5196247	@ PLATE (2:1 RED.)					1	1								
2D	5196248	@ PLATE (2.5:1 & 3:1 RED.)							1	1	1	1				
2D	5197338	PLATE (2.5:1 & 3:1 RED.)							1	1	1	1				
2B	5199060	BOLT, SPECIAL 7/16"-14X1" (NYLON INSERT)			6	6	6	6								
2D	5199061	BOLT, 7/16"-14X1 1/4" (NYLON INSERT)							6	6	6	6	6			
2B	114607	LOCKWASHER, 7/16" EXT. TOOTH (12.9210)			6	6	6	6	6	6	6	6	6			
		* REQUIRES 5199063 BEARING IN 9.1087.														
		@ THRU GEAR SERIAL NO. 3529 (2:1 RED.), 3995 (2.5:1 RED.). USE SECOND PLATE SHOWN IN SAME COLUMN AFTER THESE SERIAL NUMBERS.														
9.1283 - GASKET, REDUCTION GEAR ADAPTOR PLATE																
2B,C,D	5196260	GASKET			1	1	1	1	1	1	1	1	1			
9.1285 - HOUSING, REDUCTION GEAR																
2B	5197333	HOUSING (1.5:1 RED.)			1	1										
2B	5196282	& HOUSING (1.5:1 RED.)			1	1										
2C	5196283	# HOUSING (2:1 RED.)					1	1								

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1285 - HOUSING, REDUCTION GEAR (CONT'D)															
	5197334	# HOUSING (2:1 RED.)					1	1							
2D	5196284	& HOUSING (2.5:1 & 3:1 RED.)							1	1	1	1			
2B	5197337	HOUSING (2.5:1 & 3:1 RED.)							1	1	1	1			
2B	103891	PLUG, 5/8" EXPANSION (12.9330)			1	1									
2B	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			6	6	6	6	6	6	6	6	6		
2B	427567	BOLT, 7/16"-14X1 3/4" (12.9001)			2	2	2	2	2	2	2	2	2		
2B	103321	LOCKWASHER, 3/8" (12.9200)			6	6	6	6	6	6	6	6	6		
2B	103322	LOCKWASHER, 7/16" (12.9200)			2	2	2	2	2	2	2	2	2		
& THRU GEAR SERIAL NO. 2562 (1.5:1), 3995 (2.5:1 RED.). USE SECOND HSG. SHOWN IN SAME COLUMN AFTER THESE SERIAL NOS.															
# NOT SERVICED; FOR REPLACEMENT THRU GEAR SERIAL NO. 6443 USE 5199427 HSG. CONVERSION KIT. USE 5199438 HSG. FOR REPLACEMENT EFF. WITH GEAR SERIAL NO. 6444.															
9.1286 - GASKET, REDUCTION GEAR HOUSING															
2B,C,D	5196285	GASKET			1	1	1	1	1	1	1	1			
9.1287 - GEAR, REDUCTION GEAR INPUT															
2B	5196251	GEAR (1.5:1 RED.)			1	1									
9.1288 - PLATE, REDUCTION GEAR PLANETARY RING GEAR															
2D	5196256	PLATE (2.5:1 RED.)							1	1					
2D	5196255	PLATE (3:1 RED.)									1	1			
9.1290 - GEAR, REDUCTION GEAR SUN															
2B	5196263	GEAR (1.5:1 RED.)			1	1									
2C	5196264	GEAR (2:1 RED.)					1	1							
2D	5196265	GEAR (2.5:1 RED.)							1	1					
2D	5196266	GEAR (3:1 RED.)									1	1			
2C	5196267	RING, SNAP (1 27/32" I.D.)					1	1							
2D	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)							1	1	1	1			
2B	5196277	PIN (GEAR DRIVE)			1	1									
2B	5196278	PIN, ROLL			1	1									

9.1000A HYDRAULIC MARINE GEAR

PART
FIG. NUMBER NAME AND DESCRIPTION

COLUMN

			A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY														
B	5196268	GEAR ASSY. (1.5:1 RED.)			1	1										
C	5196269	GEAR ASSY. (2:1 RED., L.H.) (2 DRILL SPOTS ON REAR FACE)					1									
C	5196288	GEAR ASSY. (2:1 RED., R.H.)						1								
D	5196270	* GEAR ASSY. (2.5:1 RED.) (10 SPLINES)							1	1						
D	5198141	% GEAR ASSY. (2.5:1 RED.) (24 SPLINES)							AR	AR						
D	5196271	* GEAR ASSY. (3:1 RED.) (10 SPLINES)									1	1				
D	5197880	GEAR ASSY. (3:1 RED.) (24 SPLINES)									AR	AR				
B	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)			1	1										
		* NOT SERVICED; FOR REPLACEMENT USE 5198141 (2.5:1) OR 5197880 (3:1) GEAR ASSY. AND INCLUDE 1-9422151 BEARING IN 9.1350, 1-5198125 FLANGE IN 9.1430 AND 1-5198128 NUT IN 9.1435.														
		% NOT SERVICED, FOR SERVICE USE 5196544.														
		9.1293 - WASHER, REDUCTION GEAR PLANETARY GEAR THRUST														
C	5196279	WASHER (2:1 RED.)					2	2								
		9.1298 - GEAR, REDUCTION GEAR PLANETARY RING														
B,C,D	5196252	GEAR (1.5:1, 2:1, 3:1 RED.)			1	1	1	1			1	1				
D	5196257	GEAR (2.5:1 RED.)							1	1						
B,C,D	5196253	RING, SNAP (6 1/4" O.D.)			1	1	1	1			1	1				
D	5196258	RING, SNAP (6 17/32" O.D.)							1	1						
		9.1340 - SHAFT, REDUCTION GEAR DRIVE														
B	5196276	SHAFT (1.5:1 RED.)			1	1										
C	5196273	SHAFT ASSY. (INCLUDES BUSHING) (2:1 RED.)						1	1							
	5199829	BUSHING (2:1 RED.) (9.1087)					1	1								
		9.1350 - BEARING, REDUCTION GEAR OUTPUT SHAFT														
B,C,D	5199316	BEARING	1	1												
B,C,D	9413343	# BEARING			1	1	1	1	1	1	1	1	1	1	1	1
D	9422151	* BEARING							AR	AR	AR	AR				
		# WITH 10 SPLINE GEAR ASSY. IN 9.1292.														
		* WITH 24 SPLINE GEAR ASSY. IN 9.1292.														

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
..FIG ..	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1365 - COVER, REDUCTION GEAR BEARING																
	5196765	COVER	1	1												
2B,C,D	5196286	COVER			1	1	1	1	1	1	1	1				
	454933	BOLT, 7/16"-14X1 1/8" (12.9001)	6	6												
2B,C,D	193221	BOLT, 7/16"-14X1 1/4" (12.9001)			6	6	6	6	6	6	6	6				
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6				
9.1370 - GASKET, REDUCTION GEAR BEARING COVER																
	5196766	GASKET	1	1												
2B,C,D	5196287	GASKET			1	1	1	1	1	1	1	1				
9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL																
2B,C,D	5199391	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1	1	1				
9.1380 - BAFFLE, MARINE GEAR OIL																
2A	5196175	BAFFLE	1	1	1	1	1	1	1	1	1	1				
9.1395 - DIPSTICK, REDUCTION GEAR																
2A	5196176	% @ DIPSTICK (FILLER CAP)	1	1	1	1	1	1	1	1	1	1				
	5133364	& DIPSTICK (FILLER PLUG)	1	1	1	1	1	1	1	1	1	1				
		@ PRIOR TO GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5:1), 672 (2:1), 1614 (2.5:1) AND 367 (3:1).														
		& EFFECTIVE WITH GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5:1), 672 (2:1), 1614 (2.5:1) AND 367 (3:1), NOT SERVICED, USE 5149100 AND 5149061 ADAPTOR.														
		% OBSOLETE.														
9.1410 - TUBE, MARINE GEAR OIL FILLER																
	5196174	@ TUBE (WITH FILLER CAP TYPE DIPSTICK)	1	1	1	1	1	1	1	1	1	1				
		@ PRIOR TO GEAR SERIAL NOS. 16338 (D.D.), 883 (1.5:1), 672 (2:1), 1614 (2.5:1) AND 367 (3:1).														
9.1430 - FLANGE, PROPELLER DRIVE																
2B,C,D	5196745	# FLANGE (4 1/4"B.C.)	1	1	1	1	1	1	1	1	1	1				
2D	5198125	* FLANGE (4 1/4"B.C., 24 SPLINES)								AR	AR	AR	AR			
		# WITH 10 SPLINE GEAR ASSY. IN 9.1292.														

DETROIT DIESEL

53 MPC ENGINES

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1430 - FLANGE, PROPELLER DRIVE (CONT'D)																
* WITH 24 SPLINE GEAR ASSY. IN 9.1292.																
9.1435 - NUT, PROPELLER DRIVE FLANGE																
2B,C,D	5196805	# NUT	1	1	1	1	1	1	1	1	1	1	1			
2D	5198128	* NUT							AR	AR	AR	AR				
# WITH 10 SPLINE GEAR ASSY. IN 9.1292.																
* WITH 24 SPLINE GEAR ASSY. IN 9.1292.																
9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR OIL																
2A	5198459	* PUMP ASSY. (INCLUDES SEAL IN 9.1505)	1	1	1	1	1	1	1	1	1	1	1			
2A	5196889	# PUMP ASSY. (INCLUDES SEAL IN 9.1505)	1	1	1	1	1	1	1	1	1	1	1			
	5198270	* KEY, 3/16" FLANGE	1	1	1	1	1	1	1	1	1	1	1			
2A	431787	# KEY, 3/16"X5/8" WOODRUFF (12.9350)	1	1	1	1	1	1	1	1	1	1	1			
2A	110533	# SCREW, #10-24X3/4" FIL. HD. SL. (12.9030)	2	2	2	2	2	2	2	2	2	2	2			
2A	180083	* BOLT, 5/16"-18X1 1/2" (12.9001)	4	4	4	4	4	4	4	4	4	4	4			
2A	186643	# BOLT, 5/16"-18X1 7/8" (12.9001)	4	4	4	4	4	4	4	4	4	4	4			
* EFF. WITH GEAR SERIAL NOS. 4351 (D.D.), 1850 (1.5:1), 2261 (2:1).																
# THRU GEAR SERIAL NOS. 4350 (D.D.), 1849 (1.5:1), 2260 (2:1).																
9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5196216	GASKET	1	1	1	1	1	1	1	1	1	1	1			
9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5199315	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1	1	1	1			
9.1650 - STRAINER, MARINE GEAR OIL																
	5196883	STRAINER	1	1												
2A	5198458	@ STRAINER	1	1	1	1	1	1	1	1	1	1	1			
	5196178	STRAINER			1	1	1	1	1	1	1	1	1			

9.1000A HYDRAULIC MARINE GEAR

PART		COLUMN													
..FIG ..	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1650 - STRAINER, MARINE GEAR OIL (CONT'D)															
	5198456	& STRAINER (IN MAIN HOUSING)					1	1							
2A	120428	@ GASKET, 1" ANNULAR (12.9360)	1	1	1	1	1	1	1	1	1	1			
2A	5145014	PLUG, 3/8" PIPE (12.9550)	1	1											
	5142549	% PLUG, 3/4" PIPE (12.9550)					1	1							
2A	453006	@ PLUG, 1" PIPE (12.9550)			1	1	1	1	1	1	1	1			
	5199386	% DEFLECTOR, OIL (IN MAIN HOUSING)					1	1							
	5198458	& PIPE, OIL STRAINER	1	1	1	1	1	1							
	5199388	% SPRING, OIL DEFLECTOR					1	1							
	5199387	% WASHER, DEFLECTOR SPRING					1	1							
	5196890	BUSHING, REDUCING	1	1											
	5198457	& BUSHING, 3/4"X3/8" RED.	1	1	1	1	1	1							
		@ GEAR ASSYS. WITH OIL INLET TO SIDE OF REDUCTION HOUSING.													
		& USE FOR GEAR ASSYS. WITH OIL INLET TO SIDE OF MAIN HOUSING.													
		% USE FOR GEAR ASSYS. WITH OIL INLET TO TOP OF REDUCTION HOUSING.													
9.1840 - BREATHER, MARINE GEAR															
2A	5198454	+ BREATHER (.338" DRIVE TYPE)	1	1	1	1	1	1							
2A	5196177	BREATHER (3/8"-18 THREAD)	1	1	1	1	1	1	1	1	1	1			
2A	5197510	BREATHER (1/2" DRIVE TYPE)	1	1	1	1	1	1	1	1	1	1			
		+ EFF. WITH GEAR SERIAL NOS. 4941 (D.D.), 1854 (1.5:1), 2261 (2:1), 9676 (2.5:1).													

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1001 - GEAR ASSY., HYDRAULIC MARINE																
A,B	5133890	+ GEAR ASSY. (2.5:1 RED., L.H.)	1													
A,B	5133891	+ GEAR ASSY. (2.5:1 RED., R.H.)		1												
A,B	5133892	+ GEAR ASSY. (3:1 RED., L.H.)			1											
A,B	5133893	+ GEAR ASSY. (3:1 RED., R.H.)				1										
B	5162730	+ GEAR ASSY. (1.9:1 RED., L.H.)					1									
		+ NOT SERVICED, SHOWN FOR REFERENCE ONLY.														
9.1007 - ADAPTOR, MARINE GEAR HOUSING																
1A	5196179	* ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1										
1A	5198322	@ ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1									
1A	455724	BEARING (NEEDLE)	1	1	1	1	1									
1A	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1									
1A	5197537	BOLT, 3/8"-16X1 1/4" 12 PT. HD.	4	4	4	4	4									
		* THRU GEAR SERIAL NOS. 2957 (2.5:1), 1135 (3:1).														
		@ EFF. WITH GEAR SERIAL NOS. 2958 (2.5:1) AND 1136 (3:1).														
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR																
1A	5196181	GASKET	1	1	1	1	1									
9.1010 - HOUSING, MARINE GEAR																
		A HOUSING ASSEMBLY INCLUDES BUSHING IN 9.1010.														
A	5198096	HOUSING ASSY. (RED. DRIVE)	1	1	1	1	1									
A	5196511	BUSHING (OUTPUT SHAFT)	2	2	2	2										
	5198461	PLUG, .338" DIA. CUP	1	1	1	1										
A	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1									
1A	5145014	PLUG, 3/8" PIPE (12.9550)	2	2	2	2	2									
	9421745	PLUG (1/2" CUP)	1	1	1	1										
	5197210	% NAME PLATE														1
	190073	SCREW, #2X3/16" DRIVE (12.9067)														2
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1026 - SHAFT, MARINE GEAR INPUT																
A	5198371	SHAFT (INCLUDES FLANGE KEY IN 9.1475)	1	1	1	1	1									
9.1027 - BEARING, MARINE GEAR INPUT SHAFT																
A	9416195	BEARING	1	1	1	1	1									
A	5196543	RING, SNAP (1 29/64" I.D.)	1	1	1	1	1									
A	5196545	RING, SNAP (2 29/64" I.D.)	1	1	1	1	1									

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1030 - PISTON, REVERSE CLUTCH																
2A	5196183	PISTON	1	1	1	1	1									
9.1035 - SEAL, REVERSE CLUTCH PISTON																
2A	5196188	SEAL RING (3 1/2" DIA.)	1	1	1	1	1									
2A	5196180	SEAL RING (7 1/2" DIA.)	1	1	1	1	1									
9.1045 - PLATE, REVERSE CLUTCH																
2A	5196730	PLATE (SPLINED)	3	3	3	3	3									
2A	5196303	PLATE	2	2	2	2	2									
9.1055 - SPRING, REVERSE CLUTCH RELEASE																
2A	5196186	SPRING	12	12	12	12	12									
9.1060 - PLATE, REVERSE CLUTCH REACTION																
2A	5196184	PLATE	1	1	1	1	1									
2A	5196733	PIN (27/32"L)	3	3	3	3	3									
9.1080 - GEAR ASSY., MARINE GEAR PLANETARY																
INCLUDES BUSHINGS IN 9.1087.																
2A	5196804	GEAR ASSY. (2.5:1 & 3:1 RED.)	1	1	1	1	1									
2A	5197209	GEAR ASSY. (1.9:1 RED)						1								
2A	5196272	SCREEN						1								
2A	5197230	BOLT, 5/16"-18						6								
2A	103320	LOCKWASHER, 5/16" (12.9001)						6								
9.1085 - WASHER, MARINE GEAR PLANETARY GEAR THRUST																
2A	5196211	WASHER (1 3/4" O.D.)	1	1	1	1	1									
9.1087 - BEARING, MARINE GEAR PLANETARY GEAR																
2D	5197342	BEARING (2.5:1 & 3:1 RED.) (9.1350)	1	1	1	1	1									
	5199829	BUSHING	2	2	2	2										
2D	5196259	RING, SNAP (1 27/64" DIA.)	1	1	1	1	1									
9.1091 - GEAR, MARINE GEAR PLANETARY RING																
2A	5196549	GEAR	1	1	1	1	1									
2A	5196199	RING, SNAP (5 7/8" O.D.)	1	1	1	1	1									

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1135 - VALVE ASSY., SELECTOR																
1A	5196217	VALVE ASSY. (INCLUDES ITEMS IN 9.1137 THRU 9.1160)	1	1	1	1	1									
9.1137 - VALVE, SELECTOR																
1A	5196218	VALVE	1	1	1	1	1									
9.1155 - SPRING, SELECTOR VALVE																
1A	5196219	SPRING	1	1	1	1	1									
1A	5196220	RETAINER, SPRING	1	1	1	1	1									
1A	5196212	RING, SNAP	1	1	1	1	1									
9.1160 - SEAL, SELECTOR VALVE OIL																
1A	5196222	SEAL RING	1	1	1	1	1									
9.1175 - LEVER, SELECTOR VALVE																
1A	5197136	LEVER	1	1	1	1	1									
1A	5196221	SPRING (DETENT)	1	1	1	1	1									
1A	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1									
1A	103340	WASHER, 5/16" FLAT (12.9190)	1	1	1	1	1									
1A	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1									
1A	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1									
9.1178 - COVER, SELECTOR VALVE																
1A	5196224	COVER	1	1	1	1	1									
1A	186676	BOLT, 1/4"-20X5/8" (12.9001)	3	3	3	3	3									
1A	120380	LOCKWASHER, 1/4" (12.9200)	3	3	3	3										
1A	103319	LOCKWASHER, 1/4" (12.9200)					3									
9.1179 - GASKET, SELECTOR VALVE COVER																
1A	5196225	GASKET	1	1	1	1	1									
9.1223 - CYLINDER, FORWARD CLUTCH PISTON																
1A	5196546	CYLINDER	1	1	1	1	1									
1A	5196198	SEAL RING (ON INPUT SHAFT)	2	2	2	2	2									

9.1000A HYDRAULIC MARINE GEAR

			COLUMN												
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		9.1224 - WASHER, FORWARD CLUTCH CYLINDER THRUST													
2A	5196881	WASHER, .063" THICK	1	1	1	1	1								
		9.1225 - PISTON, FORWARD CLUTCH													
2A	5196196	PISTON	1	1	1	1	1								
		9.1230 - SEAL, FORWARD CLUTCH PISTON													
2A	5196195	SEAL RING, 2.016" I.D.	1	1	1	1	1								
2A	5196197	SEAL RING, 4.120" I.D.	1	1	1	1	1								
		9.1235 - PLATE, FORWARD CLUTCH													
2A	5196202	PLATE (INNER)	1	1	1	1	1								
2A	5196205	PLATE (OUTER)	1	1	1	1	1								
2A	5197160	PLATE	7	7	7	7	7								
2A	5196203	PLATE (STEEL)	6	6	6	6	6								
	5196770	SHIM (SNAP RING) (.050")	AR	AR	AR	AR	AR	AR							
	5196771	SHIM (SNAP RING) (.075")	AR	AR	AR	AR	AR	AR							
	5196772	SHIM (SNAP RING) (.100")	AR	AR	AR	AR	AR	AR							
		9.1240 - SPRING, FORWARD CLUTCH RELEASE													
2A	5196201	SPRING	1	1	1	1	1								
2A	5196200	RING, SNAP (3" DIA.)	1	1	1	1	1								
2A	5196209	RING, SNAP (5 1/2" DIA.)	1	1	1	1	1								
		9.1242 - HUB, FORWARD CLUTCH													
2A	5196547	HUB	1	1	1	1	1								
2A	5196207	RING, SNAP (1 21/32" DIA.)	1	1	1	1	1								
2A	124553	KEY, 1/4"X1" WOODRUFF (12.9350)	1	1	1	1	1								
		9.1282 - PLATE, REDUCTION GEAR ADAPTOR													
2D	5197338	* PLATE (2.5:1 & 3:1 RED.)	1	1	1	1									
2D	5196248	@ PLATE (2.5:1 & 3:1 RED.)	1	1	1	1									
2B,D	5198554	PLATE (1.9:1 RED.)					1								
2D	5199061	BOLT, 7/16"-14X1 1/4" (NYLON INSERT)	6	6	6	6									
2B	5199060	BOLT, 7/16"-14X1" (NYLON INSERT)					6								
2D	114607	LOCKWASHER, 7/16" EXT. TOOTH (12.9210)	6	6	6	6	6								
		* EFF. WITH GEAR SERIAL NOS. 3996 (2.5:1 RED.), 1576 (3:1 RED.).													

9.1000A HYDRAULIC MARINE GEAR

PART FIG . . . NUMBER NAME AND DESCRIPTION		COLUMN													
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1282 - PLATE, REDUCTION GEAR ADAPTOR (CONT'D)															
@ THRU GEAR SERIAL NOS. 3995 (2.5:1 RED.) AND 1575 FOR 3:1 RATIOS.															
9.1283 - GASKET, REDUCTION GEAR ADAPTOR PLATE															
2B,C,D	5196260	GASKET	1	1	1	1	1								
9.1285 - HOUSING, REDUCTION GEAR															
2D	5197337	* HOUSING (2.5:1 & 3:1 RED.)	1	1	1	1									
2D	5196284	@ HOUSING (2.5:1 & 3:1 RED.)	1	1	1	1									
2B	5197334	# HOUSING (1.9:1 RED.)					1								
2D	186619	BOLT, 3/8"-16X1 1/8" (12.9001)	6	6	6	6	6								
2D	427567	BOLT, 7/16"-14X1 3/4" (12.9001)	2	2	2	2	2								
2D	103321	LOCKWASHER, 3/8" (12.9200)	6	6	6	6	6								
2D	103322	LOCKWASHER, 7/16" (12.9200)	2	2	2	2	2								
* EFF. WITH GEAR SERIAL NOS. 3996 (2.5:1 RED.), 1576 (3:1 RED.).															
@ THRU GEAR SERIAL NOS. 3995 (2.5:1 RED.) AND 1575 FOR 3:1 RATIOS.															
# NOT SERVICED, FOR REPLACEMENT THRU GEAR SERIAL NO. 6443 USE 5199427 HOUSING CONVERSION KIT. USE 5199398 HOUSING FOR REPLACEMENT EFFECTIVE WITH GEAR SERIAL NO. 6444.															
9.1286 - GASKET, REDUCTION GEAR HOUSING															
2B,C,D	5196285	GASKET	1	1	1	1	1								
9.1288 - PLATE, REDUCTION GEAR PLANETARY RING GEAR															
2D	5196256	PLATE (2.5:1 RED.)	1	1											
2D	5196255	PLATE (3:1 RED.)			1	1									
9.1290 - GEAR, REDUCTION GEAR SUN															
2D	5196265	GEAR (2.5:1 RED.)	1	1											
2D	5196266	GEAR (3:1 RED.)			1	1	1								
2D	3709351	RING, SNAP (1 1/4" I.D.) (9.1027)	1	1	1	1	1								
9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY															
2D	5198141	+ GEAR ASSY. (2.5:1 RED.)	1	1											
2D	5197880	GEAR ASSY. (3:1 RED.)			1	1									
+ NOT SERVICED, FOR SERVICE USE 5196544.															

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1298 - GEAR, REDUCTION GEAR PLANETARY RING															
2B,C,D	5196252	GEAR (1.5:1, 2:1, 3:1 RED.)			1	1	1								
2D	5196257	GEAR (2.5:1 RED.)	1	1											
2B,C,D	5196253	RING, SNAP (6 1/4" O.D.)			1	1	1								
2D	5196258	RING, SNAP (6 17/32" O.D.)	1	1											
9.1340 - SHAFT, REDUCTION GEAR DRIVE															
2B	5197211	SHAFT					1								
9.1350 - BEARING, REDUCTION GEAR OUTPUT SHAFT															
2B,C,D	9422151	BEARING	1	1	1	1									
2B,C,D	9413343	BEARING					1								
9.1365 - COVER, REDUCTION GEAR BEARING															
2B,C,D	5196286	COVER	1	1	1	1	1								
2B,C,D	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	6	6	6	6	6								
2B,C,D	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6								
9.1370 - GASKET, REDUCTION GEAR BEARING COVER															
2B,C,D	5196287	GASKET	1	1	1	1	1								
9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL															
2B,C,D	5199391	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1								
9.1380 - BAFFLE, MARINE GEAR OIL															
2D	5196175	BAFFLE	1	1	1	1	1								
9.1395 - DIPSTICK, REDUCTION GEAR															
2A	5133364	* DIPSTICK (FILLER PLUG)	1	1	1	1									
	5149100	DIPSTICK					1								
		* NOT SERVICED, USE 5149100 PLUS 1-5149061 ADAPTOR.													
9.1410 - TUBE, REDUCTION GEAR OIL FILLER															
2E	5149061	ADAPTOR (FOR SQUEEZE TYPE DIPSTICK)	1	1	1	1	1								
9.1430 - FLANGE, PROPELLER DRIVE															
2D	5198125	FLANGE (4 1/4" B.C., 24 SPLINES)	1	1	1	1									
2B	5196745	FLANGE					1								

9.1000A HYDRAULIC MARINE GEAR

PART FIG ... NUMBER ... NAME AND DESCRIPTION			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1435 - NUT, PROPELLER DRIVE FLANGE																
1D	5198128	NUT	1	1	1	1										
1B	5196805	NUT					1									
9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR OIL																
1A	5198459	PUMP ASSY. (INCLUDES SEAL IN 9.1505)	1	1	1	1										
1A	5196889	# PUMP ASSY. (INCLUDES SEAL IN 9.1505, GEARS AND PLATE NOT SOLD SEPARATELY)	1	1	1	1										
	5198270	* KEY, 3/16" FLANGED	1	1	1	1	1									
2A	431787	# KEY, 3/16"X5/8" WOODRUFF (12.9350)	1	1	1	1										
2A	110533	# SCREW, #10-24X3/4" FL. HD. SL. (12.9030)	2	2	2	2										
2A	180083	* BOLT, 5/16"-18X1 1/2" (12.9001)	4	4	4	4										
2A	186643	# BOLT, 5/16"-18X1 7/8" (12.9001)	4	4	4	4										
2A	179822	BOLT, 5/16"-18X1 1/2" (12.9001)					4									
		# THRU GEAR SERIAL NOS. 2957 (2.5:1 RED.), 1135 (3:1 RED.) * EFFECTIVE WITH GEAR SERIAL NOS. 2958 (2.5:1 RED.), 1136 (3:1 RED.)														
9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5196216	GASKET	1	1	1	1	1									
9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP																
2A	5199315	SEAL, OIL	1	1	1	1	1									
9.1650 - STRAINER, MARINE GEAR OIL																
2A	5196178	STRAINER	1	1	1	1										
2A	5198456	STRAINER	1	1	1	1	1									
2A	120428	GASKET, 1" ANNULAR (12.9360)	1	1	1	1	1									
2A	453006	PLUG, 1" PIPE (12.9550)	1	1	1	1	1									
	5198457	BUSHING, 3/4"X3/8" RED. PIPE	1	1	1	1										
	5198458	PIPE, OIL STRAINER	1	1	1	1										
9.1840 - BREATHER, MARINE GEAR																
2A	5196177	BREATHER (3/8"-18 THREAD)	1	1	1	1										
2A	5197510	BREATHER (1/2" DRIVE TYPE)	1	1	1	1										
2A	5198454	BREATHER (VALVE TYPE)					1									

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1001 - GEAR ASSY., HYDRAULIC MARINE															
1B	5148454	GEAR ASSY. (DIRECT DRIVE, L.H.)	1												
1B	5148453	GEAR ASSY. (DIRECT DRIVE, R.H.)		1											
1B	5148428	GEAR ASSY. (1.5:1 RED., L.H.)			1										
1B	5148427	GEAR ASSY. (1.5:1 RED., R.H.)				1									
1B	5141129	GEAR ASSY. (2:1 RED., L.H.)					1								
1B	5141130	GEAR ASSY. (2:1 RED., R.H.)						1							
1B	5144705	GEAR ASSY. (3:1 RED., L.H.)							1						
1B	5144706	GEAR ASSY. (3:1 RED., R.H.)								1					
	5199980	PLATE, NAME	1	1	1	1	1	1	1	1					
	190073	SCREW, DRIVE #2X3/16" (12.9065)	2	2	2	2	2	2	2	2					
9.1007 - ADAPTOR, MARINE GEAR HOUSING															
2E,F	5199973	ADAPTOR ASSY. (INCLUDES BEARING)	1	1	1	1	1	1	1	1					
2E,F	5149001	BEARING (NEEDLE)	1	1	1	1	1	1	1	1					
2E,F	5145009	PLUG, 1/8" PIPE (12.9550)	3	3	3	3	3	3	3	3					
2E,F	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1	1	1	1					
2E,F	5197537	BOLT, 3/8"-16X1 1/4" 12 PT. HD.	4	4	4	4	4	4	4	4					
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR															
2E,F	5149030	GASKET	1	1	1	1	1	1	1	1					
9.1010 - HOUSING ASSY., REVERSE GEAR															
A DIRECT DRIVE HOUSING ASSEMBLY INCLUDES COVER, BOLTS, LOCKWASHERS AND CUP PLUGS IN 9.1010. A 1.5:1 HOUSING ASSEMBLY INCLUDES 15/64" DIA. CUP PLUG IN 9.1010. A 2:1 AND 3:1 HOUSING ASSEMBLY INCLUDES DOWEL PINS PLUS 15/64" DIA. CUP PLUG IN 9.1010.															
2E	5149070	HOUSING ASSY. (DIRECT DRIVE)	1	1											
2F	5199970	HOUSING ASSY. (1.5:1)			1	1									
2F	5199969	HOUSING ASSY. (2:1 & 3:1)					1	1	1	1					
2E	5149014	COVER, OIL HOLE	1	1											
2F	141283	PIN, DOWEL (1"LX1/2" DIA.)					2	2	2	2					
2E,F	5145009	PLUG, 1/8" PIPE (12.9550)	1	1	1	1	1	1	1	1					
2E,F	5149835	PLUG, ORIFICE	1	1	1	1	1	1	1	1					
2E	5199977	PLUG (17/64" DIA. CUP)	1	1											
2E,F	5145014	PLUG, 3/8" PIPE (12.9550)	2	2	2	2	2	2	2	2					
2E	179857	BOLT, 7/16"-14X7/8" (12.9001)	2	2											
2E	114607	LOCKWASHER, 7/16" (12.9200)	2	2											

9.1000A HYDRAULIC MARINE GEAR

PART FIG . . . NUMBER NAME AND DESCRIPTION			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1019 - VALVE, OIL COOLER PRESSURE REGULATOR																
2E,F	5149029	SPRING	1	1	1	1	1	1	1	1						
2E,F	5149022	RETAINER	1	1	1	1	1	1	1	1						
2E,F	453595	BALL, 7/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1						
9.1021 - VALVE, MARINE GEAR PRESSURE REGULATOR																
2E,F	5149023	SPRING	1	1	1	1	1	1	1	1						
2E,F	5149022	RETAINER (9.1019)	1	1	1	1	1	1	1	1						
2E,F	453595	BALL, 7/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1						
9.1030 - PISTON, REVERSE CLUTCH																
2E,F	5196183	PISTON	1	1	1	1	1	1	1	1						
9.1035 - SEAL, REVERSE CLUTCH PISTON																
2E,F	5196188	SEAL RING (3 1/2" DIA.)	1	1	1	1	1	1	1	1						
2E,F	5196180	SEAL RING (7 1/2" DIA.)	1	1	1	1	1	1	1	1						
9.1045 - PLATE, REVERSE CLUTCH DISC																
2E,F	5149757	PLATE (SPLINED)	4	4	4	4	4	4	4	4						
2E,F	5196303	PLATE	3	3	3	3	3	3	3	3						
9.1055 - SPRING, REVERSE CLUTCH RELEASE																
2E,F	5196186	SPRING	12	12	12	12	12	12	12	12						
9.1060 - PLATE, REVERSE CLUTCH REACTION																
2E,F	5149016	PLATE	2	2	2	2	2	2	2	2						
2E,F	5199979	PIN, DOWEL (1 1/4" LX 5/16" DIA.)	3	3	3	3	3	3	3	3						
9.1080 - GEAR ASSY., PLANETARY																
2E,F	5149026	GEAR ASSY. (INCLUDES BEARING IN 9.1085)	1	1	1	1	1	1	1	1						
2E,F	5199990	SEAL RING (1.6255" O.D.)	1	1	1	1	1	1	1	1						
9.1085 - BEARING, OUTPUT SHAFT																
2E,F	5199994	BEARING (NEEDLE)	1	1	1	1	1	1	1	1						
2E,F	5149000	BEARING (NEEDLE)	1	1	1	1	1	1	1	1						
2E,F	5199997	RACE	1	1	1	1	1	1	1	1						

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1087 - BEARING, PLANETARY GEAR																
2E,F	5199994	BEARING (NEEDLE)	1	1	1	1	1	1	1	1						
2E,F	5199997	RACE	1	1	1	1	1	1	1	1						
2E,F	5199996	RACE	1	1	1	1	1	1	1	1						
2E,F	5149012	WASHER (3 5/8" O.D. X 2" I.D.)	1	1	1	1	1	1	1	1						
9.1089 - SHAFT ASSY., PLANETARY OUTPUT																
A SHAFT ASSY. INCLUDES SLEEVE ASSY. IN 9.1092.																
2E	5149011	SHAFT ASSY.	1	1												
2F	5149010	SHAFT ASSY.			1	1	1	1	1	1						
2F	5199989	SEAL RING (1 5/16" I.D.)			1	1	1	1	1	1						
9.1091 - GEAR, MARINE GEAR PLANETARY RING																
2E,F	5199971	GEAR	1	1	1	1	1	1	1	1						
2E,F	5199992	RING, SNAP (7 9/32" O.D.)	1	1	1	1	1	1	1	1						
9.1092 - SLEEVE ASSY., OUTPUT SHAFT																
2E,F	5149025	SLEEVE ASSY.	1	1	1	1	1	1	1	1						
9.1096 - HUB ASSY., REVERSE CLUTCH																
2E,F	5149024	HUB ASSY.	1	1	1	1	1	1	1	1						
9.1097 - BEARING, OUTPUT SHAFT																
2F	5199962	BEARING			1	1	1	1	1	1						
2G	9028332	RING, SNAP (3 13/32" I.D.)			1	1										
2E	5199981	SPACER (1 19/32" I.D. X 1 15/16" O.D. X .065" THICK)	1	1												
2E	5149017	SPACER (3.508" O.D. X .635" WIDE)	1	1												
2E	5149006	CONE, BEARING	2	2												
2E	5149007	CLIP, BEARING	2	2												
9.1098 - RETAINER, OUTPUT SHAFT BEARING																
2G	5199898	RETAINER			1	1										
2H,J	5199961	RETAINER					1	1	1	1						
2G,H,J	179857	BOLT, 7/16"-14X7/8" (12.9001)			6	6	6	6	6	6						
2G,H,J	114607	LOCKWASHER, 7/16" (12.9200)			6	6	6	6	6	6						

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1099 - COVER, OUTPUT SHAFT BEARING																
2E	5199972	COVER	1	1												
2E	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	6	6												
2E	103322	LOCKWASHER, 7/16" (12.9200)	6	6												
9.1102 - GASKET, MARINE GEAR HOUSING REAR																
2E	5149031	GASKET	1	1												
9.1135 - VALVE ASSY., SELECTOR																
2E,F	5149033	VALVE ASSY. (INCLUDES ITEMS IN 9.1137 THRU 9.1160)	1	1	1	1	1	1	1	1						
9.1137 - VALVE, SELECTOR																
2E,F	5149032	VALVE	1	1	1	1	1	1	1	1						
9.1155 - SPRING, SELECTOR VALVE PRESSURE																
2E,F	5199976	SPRING (2.77" LONG)	1	1	1	1	1	1	1	1						
2E,F	5196220	RETAINER, SPRING	1	1	1	1	1	1	1	1						
2E,F	5196212	RING, SNAP	1	1	1	1	1	1	1	1						
9.1157 - CAM, NEUTRAL																
	5149936	CAM	1	1	1	1	1	1	1	1						
	179796	BOLT, 1/4"-20X7/8" (12.9001)	3	3	3	3	3	3	3	3						
	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3	3	3						
9.1160 - SEAL, SELECTOR VALVE OIL																
2E,F	5196222	SEAL RING	1	1	1	1	1	1	1	1						
9.1175 - LEVER, SELECTOR VALVE OPERATING																
2E,F	5149008	LEVER	1	1	1	1	1	1	1	1						
2E,F	5196221	SPRING (DETENT)	1	1	1	1	1	1	1	1						
2E,F	104919	BALL, 5/16" DIA. STEEL (12.9670)	1	1	1	1	1	1	1	1						
2E,F	103340	WASHER, 5/16" (12.9190)	1	1	1	1	1	1	1	1						
2E,F	108579	LOCKWASHER, 5/16" (12.9200)	1	1	1	1	1	1	1	1						
2E,F	114493	NUT, 5/16"-24 (12.9120)	1	1	1	1	1	1	1	1						
9.1178 - COVER, SELECTOR VALVE																
2E,F	5149765	COVER	1	1	1	1	1	1	1	1						
2E,F	179793	BOLT, 1/4"-20X7/8" (12.9001)	3	3	3	3	3	3	3	3						
2E,F	103319	LOCKWASHER, 1/4" (12.9200)	3	3	3	3	3	3	3	3						

9.1000A HYDRAULIC MARINE GEAR

PART			COLUMN												
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
9.1179 - GASKET, SELECTOR VALVE COVER															
2E,F	5196225	GASKET	1	1	1	1	1	1	1	1					
9.1223 - CYLINDER, FORWARD CLUTCH PISTON															
2E,F	5149013	CYLINDER	1	1	1	1	1	1	1	1					
2F	5149015	PLATE			2	2	2	2	2	2					
2E,F	5199963	SEAL RING (1.480"O.D.)	1	1	1	1	1	1	1	1					
2E,F	5199991	SEAL RING (2.250"O.D.)	2	2	2	2	2	2	2	2					
2E,F	5196543	RING, SNAP (1 29/64" I.D.)	1	1	1	1	1	1	1	1					
9.1225 - PISTON, FORWARD CLUTCH															
A PISTON ASSY. INCLUDES BALL NOT SERVICED SEPARATELY.															
2E,F	5199968	PISTON ASSY.	1	1	1	1	1	1	1	1					
9.1230 - SEAL, FORWARD CLUTCH PISTON															
2E,F	5199964	SEAL RING (1.579"O.D.)	1	1	1	1	1	1	1	1					
2E,F	5199965	SEAL RING (5.292"O.D.)	1	1	1	1	1	1	1	1					
9.1235 - PLATE, FORWARD CLUTCH															
2E,F	5149809	PLATE (INNER)	6	6	6	6	6	6	6	6					
2E,F	5199967	PLATE (OUTER)	6	6	6	6	6	6	6	6					
2E,F	5196205	PLATE	1	1	1	1	1	1	1	1					
2E,F	5199985	RING, SNAP (5 9/16"O.D.)	1	1	1	1	1	1	1	1					
9.1240 - SPRING, FORWARD CLUTCH RELEASE															
2E,F	5199966	SPRING	1	1	1	1	1	1	1	1					
9.1285 - HOUSING, REDUCTION GEAR															
2G,H,J	5199862	HOUSING			1	1	1	1	1	1					
2G,H,J	179861	BOLT, 7/16"-14X1 3/8" (12.9001)			6	6	6	6	6	6					
2G,H,J	103322	LOCKWASHER, 7/16" (12.9200)			6	6	6	6	6	6					
9.1286 - GASKET, REDUCTION GEAR HOUSING															
2G,H,J	5149031	GASKET			1	1	1	1	1	1					

9.1000A HYDRAULIC MARINE GEAR

PART
 .FIG . . . NUMBER NAME AND DESCRIPTION

COLUMN

			A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1290 - GEAR, REDUCTION GEAR SUN																
2G	5199870	GEAR (1.5:1 RED.)			1	1										
2H	5199959	GEAR (2:1 RED.)					1	1								
2J	5199960	GEAR (3:1 RED.)							1	1						
2G,H,J	5199984	RING, SNAP (1 13/32" I.D.)			1	1	1	1	1	1						
9.1292 - GEAR ASSY., REDUCTION GEAR PLANETARY																
2G,H,J	5149020	GEAR ASSY.			1	1	1	1	1	1						
9.1298 - GEAR, REDUCTION GEAR PLANETARY RING																
2G,H,J	5199971	GEAR			1	1	1	1	1	1						
2G,H,J	5199992	RING, SNAP (7 9/32" O.D.)			1	1	1	1	1	1						
9.1299 - HUB, REDUCTION RING GEAR																
2G	5199974	HUB (1.5:1 RED.)			1	1										
2H,J	5199975	HUB (2:1, 3:1 RED.)					1	1	1	1						
2G,H,J	5199986	RING, SNAP (2 13/16" I.D.)			2	2	3	3	3	3						
9.1340 - SHAFT, REDUCTION GEAR DRIVE																
2G	5199863	SHAFT (1.5:1 RED.)			1	1										
2H,J	5199922	SHAFT (2:1, 3:1 RED.)					1	1	1	1						
9.1350 - BEARING, REDUCTION GEAR DRIVE SHAFT THRUST																
2G,H,J	5149005	BEARING			1	1	1	1	1	1						
9.1365 - COVER, REDUCTION GEAR BEARING																
2G,H,J	5199873	COVER			1	1	1	1	1	1						
2G,H,J	193221	BOLT, 7/16"-14X1 1/4" (12.9001)			6	6	6	6	6	6						
2G,H,J	103322	LOCKWASHER, 7/16" (12.9200)			6	6	6	6	6	6						
9.1370 - GASKET, REDUCTION GEAR BEARING COVER																
2G,H,J	5149028	GASKET			1	1	1	1	1	1						
9.1375 - SEAL, REDUCTION GEAR BEARING COVER OIL																
2E,G,H	5149676	SEAL, OIL	1	1	1	1	1	1	1	1						

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1380 - BAFFLE, MARINE GEAR HOUSING OIL																
E,F	5149027	BAFFLE	1	1	1	1	1	1	1	1						
9.1386 - BAFFLE, REDUCTION HOUSING OIL																
G,H,J	5149019	BAFFLE			1	1	1			1						
G,H,J	5149119	BAFFLE						1	1							
G,H,J	179857	BOLT, 7/16"-14X7/8" (12.9001)			5	5	5	5	5	5						
G,H,J	103322	LOCKWASHER, 7/16" (12.9200)			5	5	5	5	5	5						
9.1395 - DIPSTICK, REDUCTION GEAR																
E,F	5149062	DIPSTICK (SQUEEZE TYPE) (5.38" TO FULL, 6.13" TO LOW)	1	1	1	1	1	1	1	1						
9.1410 - TUBE, MARINE GEAR OIL FILLER																
E,F	5101127	ADAPTOR (3/4"-14X2" O.A.L.)	1	1	1	1	1	1	1	1						
9.1430 - FLANGE, PROPELLER DRIVE																
E	5149004	FLANGE (18 SPLINES)	1	1												
G,H,J	5149003	FLANGE (27 SPLINES)			1	1	1	1	1	1						
9.1435 - NUT, PROPELLER DRIVE FLANGE																
E,G,H	5199987	NUT, 1 1/4"-18	1	1	1	1	1	1	1	1						
9.1475 - PUMP ASSY., HYDRAULIC MARINE GEAR																
E,F	5198459	PUMP ASSY. (INCLUDES SEAL IN 9.1505)	1	1	1	1	1	1	1	1						
E,F	5149002	KEY	1	1	1	1	1	1	1	1						
E,F	179821	BOLT, 5/16"-18X1 3/8" (12.9001)	4	4	4	4	4	4	4	4						
9.1480 - GASKET, HYDRAULIC MARINE GEAR OIL PUMP																
E,F	5196216	GASKET	1	1	1	1	1	1	1	1						

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		9.1505 - SEAL, HYDRAULIC MARINE GEAR OIL PUMP														
2E,F	5199315	SEAL, OIL (DOUBLE LIP)	1	1	1	1	1	1	1	1						
		9.1650 - STRAINER, MARINE GEAR OIL														
2E,F	5198456	STRAINER	1	1	1	1	1	1	1	1						
2E,F	5142549	PLUG, 3/4" PIPE (12.9550)	1	1	1	1	1	1	1	1						
		9.1840 - BREATHER, MARINE GEAR														
2E,F	5199982	BREATHER (3/8" DRIVE TYPE)	1	1	1	1	1	1	1	1						

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1001 - GEAR ASSEMBLY, HYDRAULIC MARINE																
1A	5136432	# GEAR ASSY. (2.42:1)	1													
1A	5136127	# GEAR ASSY. (1.93:1)		1												
1A	5136570	# GEAR ASSY. (2.91:1)			1											
1A	5137157	# GEAR ASSY. (1.93:1)				1										
1A	5136126	# GEAR ASSY. (1.47:1)					1									
1A	5143834	# GEAR ASSY. (2.42:1)						1								
1A	5143835	# GEAR ASSY. (2.90:1)							1							
1A	5144971	# GEAR ASSY. (1.93:1)								1						
1A	5144972	# GEAR ASSY. (2.42:1)									1					
1A	5144973	# GEAR ASSY. (2.90:1)										1				
	179839	BOLT, 3/8"-16X1" (12.9001)	12	12	12	12	12	12	12	12	12	12	12			
		# NOT SERVICED, SHOWN FOR REFERENCE ONLY.														
9.1006 - COUPLING, MARINE GEAR DRIVE																
1A	5198785	% RING, DRIVE	1					1	1	1	1	1				
1A	5198889	% * RING, DRIVE (FIBER)		1	1	1	1									
	5149086	% WASHER, 3/8" PLAIN		8			8									
		* NOT SERVICED, REPLACE WITH KIT 5198700 IN 9.1016.														
		% NOT SERVICED, PROCURE THRU TWIN DISC INC. 1328 RACINE ST. RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1008 - GASKET, MARINE GEAR HOUSING																
A	5198898	% GASKET	1	1	1	1	1	1	1	1	1	1				
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1009 - SPIDER, MARINE GEAR DRIVE																
A	5198786	% SPIDER	1					1	1	1	1	1				
A	5198891	% SPIDER		1	1	1	1									
A	5198768	BLOCK (RUBBER)	20					20	20							
		* NOT SERVICED, REPLACE WITH KIT 5198700 IN 9.1016.														
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1010 - HOUSING, REVERSE GEAR																
		A HOUSING ASSY. INCLUDES HOUSING & COVER WHICH ARE NOT SERVICED SEPARATELY, GASKET IN 9.1008 AND ITEMS INDICATED (=) IN 9.1010.														
B	5198778	% HOUSING ASSY. (2.42:1, 2.91:1 RATIO)	1		1							1				
B	5198807	% HOUSING ASSY. (1.47:1, 1.93:1 RATIO)		1		1	1									
B	5198659	% HOUSING ASSY. (2.42:1, 2.90:1 RATIO)						1	1				1			
B	5149072	% HOUSING ASSY. (1.47:1, 1.93:1 RATIO)								1						

9.1000A HYDRAULIC MARINE GEAR

PART		COLUMN														
..FIG ..	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1010 - HOUSING, REVERSE GEAR (CONT'D)																
	5149071	% PLUG (DRAIN)						1	1	1	1	1				
	5198660	% RING, SEAL (DRAIN PLUG)						1	1	1	1	1				
	141264	% PIN, DOWEL (1"X7/16" DIA.)						2	2							
	5198781	PLATE, NAME	1	1	1	1	1	1	1	1						
	5198894	% PLATE, ROTATION INDICATOR (9.1001)	1	1	1	1	1	1	1	1						
	5199044	BREATHER (9.1840)						1	1							
	180175	% BOLT, 1/2"-13X1 1/4"						9	9							
	192413	% SCREW, #4X1/4" DRIVE (12.9067)	6	6	6	6	6	6	6	6	6	6	6			
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST. RACINE, WISC. 53403 OR NEAREST OUOUTLET.														
9.1011 - BRACKET, REVERSE GEAR MOUNTING																
3A	5198788	% BRACKET	2	2	2	2	2	2	2							
	180175	BOLT, 1/2"-13X1 1/4" (12.9001)	8	8	8	8	8	8	8							
	120239	LOCKWASHER, 1/2" (12.9200)	8	8	8	8	8	8	8							
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1014 - RETAINER, SPIDER DRIVE																
4A	5149081	% PIN, ROLL	1	1	1	1	1									
4A	5198518	% LOCKPLATE	1	1	1	1	1									
4A	5198519	% WASHER, RETAINING	1	1	1	1	1									
4A	5149082	% WASHER, RETAINING						1	1	1	1	1				
4A	271581	BOLT, 5/8"-18X1 1/4" (12.9001)						1	1	1	1	1				
5A	223809	BOLT, 5/8"-18X1 1/2" (12.9001)	1	1	1	1	1									
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1016 - CONVERSION KIT, MARINE GEAR																
		NOTE: INCLUDES 5198785 DRIVE RING IN 9.1006, 5198786 SPIDER AND 5198768 BLOCKS IN 9.1009, NAME PLATE AND DR IVE SCREWS IN 9.1010 PLUS 5198518 LOCKPLATE IN 9.1014.														
	5198700	% CONVERSION KIT		1	1	1	1									
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1018 - SEAL, MARINE GEAR INPUT SHAFT																
4A	5198749	SEAL	1	1	1	1	1	1	1	1	1	1				
9.1024 - SUPPORT, INPUT SHAFT BEARING																
4A	5198753	% SUPPORT	1	1	1	1	1	1	1	1	1	1	1	1		
4A	5198796	SHIM (.005")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
4A	5198797	% SHIM (.007")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		

9.1000A HYDRAULIC MARINE GEAR

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9.1024 - SUPPORT, INPUT SHAFT BEARING (CONT'D)																
A	5198798	% SHIM (.020")	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR				
A	179839	BOLT, 3/8"-16X1" (12.9001)	6	6	6	6	6	6	6	6	6	6				
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1026 - SHAFT, MARINE GEAR INPUT																
A	5198746	% SHAFT (2.42:1, 2.91:1 RATIO)	1		1											
A	5198886	# SHAFT (1.47:1, 1.93:1 RATIO)		1		1	1			1						
A	5199045	% SHAFT (2.42:1, 2.90:1 RATIO)						1	1				1		1	
A	5198531	% KEY, WOODRUFF (3/8"X1/4"X1 1/8")	1	1	1	1	1	1	1	1	1	1	1		1	
A	5198831	% KEY, WOODRUFF (3/8"X1/4"X1 3/8")	1	1	1	1	1	1	1	1	1	1	1		1	
		# NOT SERVICED; USE 5198746.														
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1027 - BEARING, MARINE GEAR INPUT SHAFT																
A	5198545	% BEARING, ROLLER	2	2	2	2	2	2	2	2	2	2				
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1028 - GEAR, FORWARD CLUTCH																
A	5199040	% GEAR & SHAFT ASSY.						1	1	1	1	1				
A	5199416	GEAR & SHAFT ASSY.	1		1	1										
A	5199280	% GEAR & SHAFT ASSY.		1			1									
	5198523	% BEARING (CLUTCH GEAR THRUST)	4	4	4	4	4									
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1029 - GEAR, REVERSE CLUTCH																
A	5199041	% GEAR & SHAFT ASSY.						1	1	1	1	1				
A	5199417	GEAR & SHAFT ASSY.	1		1	1										
A	5199281	% GEAR & SHAFT ASSY.		1			1									
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														
9.1030 - PISTON, REVERSE CLUTCH																
A	5198743	% PISTON	2	2	2	2	2	2	2	2	2	2				
A	5198780	RING, CLUTCH PISTON	2	2	2	2	2	2	2	2	2	2				
A	5199047	% RING, SNAP		2				2	2	2	2	2				
		% NOT SERVICED, PROCURE THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET.														