

8.1000A POWER TAKE-OFF AND/OR CLUTCH

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	273	275	278	282	299	302	304	305	308	309	315		
8.1142 - LEVER, CLUTCH RELEASE YOKE															
1A	5194140	LEVER				3		3			3				
1A	5193422	PIN				3		3			3				
1A	5192142	RING, RETAINING				3		3			3				
8.1144 - NUT, CLUTCH ADJUSTING															
1A	5197883	NUT, 7 1/2"-18				1		1			1				
	5197882	PLATE, WEAR				1		1			1				
8.1145 - LOCK, CLUTCH ADJUSTING NUT															
1A	5196867	LOCK				1		1			1				
1A	179789	BOLT, 1/4"-20X3/8" (12.9001)				1		1			1				
1A	114604	LOCKWASHER, 1/4" EXT. TOOTH (12.9210)				1		1			1				
8.1270 - SHAFT, CLUTCH RELEASED															
1A	5194244	SHAFT				1		1							
	191758	FITTING, 1/8" LUBE (12.9540)				1									
8.1275 - YOKE, CLUTCH RELEASE															
A YOKE ASSY. INCLUDES BOLT AND LOCKWASHER IN 8.1275.															
1A	5193254	YOKE ASSY.				1		1							
1A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	2			2	2	2							
1A	103321	LOCKWASHER, 3/8" (12.9200)	2			2	2	2							
1A	113782	KEY, 1/4"X1" WOODRUFF (12.9350)				2		2							
8.1280 - FORK, CLUTCH RELEASE															
	3843314	@ FORK										1			
	3765371	@ FORK	1				1								
@ PROCURE FROM CHEVROLET.															
8.1285 - SLEEVE, CLUTCH RELEASE															
1A	5193432	SLEEVE									1				
1A	5193259	SLEEVE				1		1							

8.1000A POWER TAKE-OFF AND/OR CLUTCH

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 7 3	2 7 5	2 7 8	2 8 2	2 9 9	3 0 2	3 0 4	3 0 5	3 0 8	3 0 9	3 1 5
		8.1295 - COLLAR, CLUTCH RELEASE											
		A COLLAR ASSY. INCLUDES ITEMS IN 8.1295.											
	5196715	COLLAR ASSY.									1		
1A	5196719	BEARING ASSY.				1		1					
1A	9409023	BOLT, 5/16"-24X1 3/4" (12.9001)				2		2					
1A	100018	BOLT, 5/16"-24X2" (12.9001)									2		
1A	214279	NUT, 5/16"-24 ELASTIC STOP (12.9120)				2		2			2		
		8.1315 - LINK, CLUTCH RELEASE YOKE											
1A	5193421	LINK				6		6			6		
1A	5193420	PIN (5/16"X11/16") CLEVIS				6		6			6		
1A	5192176	RING, RETAINING				6		6			6		
		8.1320 - HOSE, CLUTCH RELEASE BEARING											
1A	5192296	HOSE ASSY.				1		1					
1A	191758	FITTING, 1/8" LUBE (12.9540)						1					
1A	122366	NUT, 5/8"-18 THIN (12.9120)				1		1					
		8.1455 - FITTING, CLUTCH PILOT BEARING GREASE											
	191758	FITTING, 1/8" LUBE (12.9540)				1							
		8.1470 - LEVER, CLUTCH HAND CONTROL											
		A LEVER ASSY. INCLUDES BOLT AND LOCKWASHER IN 8.1470.											
1A	3290211	LEVER ASSY.				1		1					
1A	186628	BOLT, 3/8"-16X1 1/2" (12.9001)						1					
1A	186646	BOLT, 1/2"-13X1 3/4" (12.9001)				1							
1A	103321	LOCKWASHER, 3/8" (12.9200)						1					
1A	103323	LOCKWASHER, 1/2" (12.9200)				1							
		8.1670 - SHAFT, CLUTCH DRIVE											
1A	5194671	LOCKWASHER				1		1					
1A	5192153	NUT				1		1					

8.1000A POWER TAKE-OFF AND/OR CLUTCH

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION										
		2 7 3	2 7 5	2 7 8	2 8 2	2 9 9	3 0 2	3 0 4	3 0 5	3 0 8	3 0 9	3 1 5
	8.1904	SHAFT, POWER TAKE-OFF ADAPTOR STUB										
	5122429	* SHAFT (TRANSMISSION DRIVE) * PART OF COUPLING ASSY. IN 8.1910.										
	8.1905	ADAPTOR, POWER TAKE-OFF TO CLUTCH AN ADAPTOR INCLUDES HUB IN 8.1908.										
	5172771	INSULATOR ASSY. (1.3280)										
	8.1906	HUB, FRONT POWER TAKE-OFF ADAPTOR										
	5119170	HUB										
	8.1907	CONE, POWER TAKE-OFF ADAPTOR										
1B	5119189	CONE (1.3295)										
1B	271632	BOLT, 3/4"-16X1 3/4" (1.3290)										
1B	5180291	WASHER (2.18" DIA. O.D.) (1.3290)										
	8.1908	PULLEY, CRANKSHAFT FRONT POWER TAKE-OFF										
	5169905	PULLEY										
	186612	BOLT, 3/8-16X1 3/8" (12.9001)										
	103321	LOCKWASHER, 3/8" (12.9200)										
	8.1910	COUPLING ASSY., POWER TAKE-OFF										
	5167273	COUPLING										
	5137481	COUPLING ASSY. (TRANSMISSION)										
	7450944	# BEARING, COUPLING										
	5136406	# ADAPTOR, COUPLING										
	9152466	# SEAL, BEARING										
	5127300	# SPACER, BEARING										
	9152465	# RETAINER, BEARING										
	191758	# FITTING, 1/8" LUBE (12.9540)										
	5127184	GASKET (TO BELL) (1.5020)										
	5131724	KEY, 3/8"X1 1/4" WOODRUFF (12.9350)										
	5136529	BOLT, 3/8"-16X1 5/8" (NYLOCK)										
	5153623	BOLT (12.9001)										
	5157930	WASHER (1.3290)										
	103321	LOCKWASHER, 3/8" (12.9200)										
		# PART OF COUPLING ASSY. IN TYPE 275. AN ASSY. ALSO INCLUDES SHAFT IN 8.1904.										

8.1000A POWER TAKE-OFF AND/OR CLUTCH

PART		NAME AND DESCRIPTION	TYPES											
FIG	NUMBER		3	2	0	3	4	4						
		8.1001 - POWER TAKE-OFF ASSY.												
		INCLUDES KEY IN 8.1001 AND ITEMS IN 8.1010 THRU 8.1700 EXCEPT 8.1450.												
	5148551	POWER TAKE-OFF ASSY.				1								
	5140918	* POWER TAKE-OFF ASSY.	1											
1A	5192162	KEY, 5/8"x4 1/4" L				1								
1A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)	12			12								
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)				12								
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)				8								
1A	103321	LOCKWASHER, 3/8" (12.9200)	12			20								
		* NOT SERVICED. COMPONENTS OF POWER TAKE-OFF ASSY., SERVICED BY COTTA TRANSMISSION CO., ROCKFORD, ILL.												
		8.1010 - HOUSING, CLUTCH												
1A	5199890	HOUSING (SAE #4)				1								
		8.1017 - CLUTCH ASSY.												
		A CLUTCH ASSY. INCLUDES ITEMS IN 8.1030, 8.1080, 8.1100, 8.1135, 8.1142, 8.1144, 8.1145, 8.1285, 8.1295, 8.1315.												
	5196457	CLUTCH ASSY. (10")				1								
1A	5193449	KEY (3/8"x1/2"x1 7/8")				1								
		8.1018 - RING, CLUTCH DRIVING												
	5192180	RING (10")				1								
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)	8											
	103321	LOCKWASHER, 3/8" (12.9200)	8											
		8.1030 - FACING, CLUTCH												
1A	5192182	FACING (3 SEGMENTS)				1								
		8.1060 - COVER, CLUTCH HOUSING INSPECTION HOLE												
1A	5149358	COVER				1								
1A	131375	SCREW, 1/4"-20X3/8" RD. HD. SL. (12.9001)				1								

8.1000A POWER TAKE-OFF AND/OR CLUTCH

			TYPES									
FIG	PART NUMBER	NAME AND DESCRIPTION	3 2 0	3 4 4								
		8.1070 - GASKET, CLUTCH HOUSING INSPECTION HOLE COVER										
1A	5192415	GASKET		1								
		8.1080 - PLATE, CLUTCH PRESSURE										
1A	5194294	PLATE (INNER) (INCLUDE LOCK IN 8.1145)		1								
	179789	BOLT, 1/4"-20X3/8" (12.9001)		1								
	114604	LOCKWASHER, 1/4" EXT. TOOTH (12.9210)		1								
		8.1100 - SPRING, CLUTCH TOGGLE LEVER										
1A	5194138	SPRING		1								
		8.1135 - SPRING, CLUTCH PRESSURE PLATE RETURN										
1A	5193431	SPRING (COIL)		3								
		8.1142 - LEVER, CLUTCH RELEASE YOKE										
1A	5194140	LEVER		3								
1A	5193422	PIN		3								
1A	5192142	RING, RETAINING		3								
		8.1144 - NUT, CLUTCH ADJUSTING										
1A	5197883	NUT, 7 1/2"-16		1								
1A	5197882	PLATE, WEAR		1								
		8.1145 - LOCK, CLUTCH ADJUSTING NUT										
1A	5196867	LOCK		1								
		8.1270 - SHAFT, CLUTCH RELEASE										
1A	5193626	SHAFT		1								
	5190957	FITTING, 1/2" LUBE		2								
		8.1275 - YOKE, CLUTCH RELEASE										
		A YOKE ASSY. INCLUDES BOLT AND LOCKWASHER IN 8.1275.										
1A	5192150	YOKE ASSY.		1								

8.1000A POWER TAKE-OFF AND/OR CLUTCH

			TYPES									
..FIG ..	PART NUMBER	NAME AND DESCRIPTION	3 2 0	3 4 4								
		8.1275 - YOKE, CLUTCH RELEASE (CONT'D)										
	113782	KEY, 1/4"X1" WOODRUFF (12.9350)		2								
1A	186622	BOLT, 3/8"-16X1 1/4" (12.9001)		2								
1A	103321	LOCKWASHER, 3/8" (12.9200)		2								
		8.1285 - SLEEVE, CLUTCH RELEASE										
1A	5193432	SLEEVE		1								
		8.1295 - COLLAR, CLUTCH RELEASE										
		A COLLAR ASSY. INCLUDES ITEMS IN 8.1295.										
1A	5196716	COLLAR ASSY.		1								
1A	100018	BOLT, 5/16"-24X2" (12.9001)		2								
1A	214279	NUT, 5/16"-24 LOCK		2								
		8.1315 - LINK, CLUTCH RELEASE YOKE										
1A	5193421	LINK		6								
1A	5193420	PIN, 5/16"X11/16" CLEVIS		6								
	5192176	RING, RETAINING		6								
		8.1318 - COVER, CLUTCH RELEASE YOKE LUBRICATION										
	5193621	COVER		1								
	132830	SCREW ASSY. (SOLENOID) (12.9025)		2								
		8.1320 - HOSE, CLUTCH RELEASE BEARING										
1A	273347	FITTING, 1/8" LUBE (12.9540)		1								
		8.1450 - BEARING, CLUTCH PILOT										
	906986	BEARING		1								
		8.1465 - FITTING, CLUTCH PILOT BEARING GREASE										
	191758	FITTING, 1/8" LUBE (12.9540)		1								

8.1000A POWER TAKE-OFF AND/OR CLUTCH

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3	2	0	3	4	4						
		8.1470 - LEVER, CLUTCH HAND CONTROL												
		A LEVER ASSY. INCLUDES BOLT AND LOCKWASHER IN 8.1470.												
1A	5193627	LEVER ASSY.				1								
1A	186678	BOLT, 3/8"-16X1 1/2" (12.9001)				1								
1A	103321	LOCKWASHER, 3/8" (12.9200)				1								
		8.1670 - SHAFT, CLUTCH DRIVE												
1A	5199893	SHAFT				1								
	5192154	LOCKWASHER				1								
	5192153	NUT				1								
		8.1680 - BEARING, CLUTCH DRIVE SHAFT												
1A	903212	BEARING				2								
	5199896	RING, SNAP (2.37" O.D.)				2								
		8.1690 - RETAINER, CLUTCH DRIVE SHAFT BEARING												
1A	5192149	RETAINER				1								
		8.1695 - SPACER, CLUTCH DRIVE SHAFT BEARING RETAINER												
	5199891	SPACER				1								
		8.1700 - LOCK, CLUTCH DRIVE SHAFT BEARING RETAINER												
1A	3223379	LOCK				1								
	179812	BOLT, 5/16"-18X1 1/2" (12.9001)				1								
	103320	LOCKWASHER, 5/16" (12.9200)				1								
		8.1895 - SUPPORT, POWER TAKE-OFF												
	5141064	SUPPORT				1								
	5143369	SHIM, 3/16"				1								
	5140392	SHIM (.005")				1								
	5175223	SHIM (.062")				1								
	5175224	SHIM (.031")				1								
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)				6								
	186631	BOLT, 1/2"-13X2 1/4" (12.9001)				4								

8.1000A POWER TAKE-OFF AND/OR CLUTCH

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			3	2	0	3	4	4						
	8.1895	SUPPORT, POWER TAKE-OFF (CONT'D)												
	103343	WASHER, 1/2" (12.9190)	4											
	103323	LOCKWASHER, 1/2" (12.9200)	10											
	123283	NUT, 1/2"-13 (12.9120)	4											

8.3000A TORQUE CONVERTER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		2 3 2	2 9 7	2 9 9	3 0 0	3 0 8	3 5 9	3 6 2	3 7 8	3 8 6	3 9 4	3 9 6	4 2 3
8.3001 - CONVERTER ASSY., TORQUE													
TORQMATIC CONVERTER ASSEMBLIES ARE AVAILABLE THROUGH D.D.A. SALES DEPARTMENT, C/O MANAGER, ENGINE DISTRIBUTION. COMPONENTS OF ALLISON TORQMATIC CONVERTER ASSEMBLIES ARE SHOWN IN ALLISON PARTS CATALOGS SA-1039 FOR 200, 300 SERIES AND SA-1116 FOR 400 SERIES.													
NPN	CONVERTER ASSY. (CUSTOMER FURNISHED)									1			
6758586	CONVERTER ASSY. (TCRD-246)	1											
5127243	* CONVERTER ASSY. (FULLER MODEL 12T)		1										
6758048	CONVERTER ASSY. (TCA-328)			1									
6769970	& CONVERTER ASSY. (TC-327) (TYPE 394)				1								
5113404	% CONVERTER ASSY. (TCDA-377)					1							
5133278	@ CONVERTER ASSY. (TCD-327)						1						
6769874	CONVERTER ASSY. (TCA-327)							1					
6775642	CONVERTER ASSY. (TCDOA-435)								1				
6778205	CONVERTER ASSY. (TC-357)										1		
5137978	+ CONVERTER ASSY. (TCD-354)											1	
5140430	# CONVERTER ASSY. (TCDA-377)												1
849330	CAP. TACHOMETER DRIVE ADAPTOR								1				1
5107931	WASHER, TACHOMETER ADAPTOR (7.4457)								1				1
6756659	ORIFICE, PLUG (.312" DIA.) (8.3010)												1
9409079	BOLT, 3/8"-16X7/8" (12.9001)		6										
186619	BOLT, 3/8"-16X1 1/8" (12.9001)		12										12
186622	BOLT, 3/8"-16X1 1/4" (12.9001)	12		12	12	12	12				12	12	
179867	BOLT, 7/16"-14X2 1/4" (12.9001)								11				
103321	LOCKWASHER, 3/8" (12.9200)	12		12	12	12	12	12			12	12	12
103322	LOCKWASHER, 7/16" (12.9200)								11				
* FOR REPLACEMENT PARTS CONTACT FULLER MFG. CO., KALAMAZOO, MICHIGAN, OR THEIR NEAREST OUTLET. FURNISH THEIR ASSY. PART NUMBER SHOWN IN PARENTHESES.													
& NOT SERVICED. COMPONENTS ARE AVAILABLE. FOR A COMPLETE REPLACEMENT USE TYPE SHOWN IN PARENTHESES.													
% INCLUDES 6756755 CONVERTER PLUS OPTION #137. CONVERT TO TYPE 423 FOR COMPLETE REPLACEMENT.													
@ INCLUDES 6769970 CONVERTER PLUS OPTION #137. CONVERT TO TYPE 450 FOR COMPLETE REPLACEMENT.													
+ INCLUDES 6774949 CONVERTER PLUS OPTION #120.													

8.3000A TORQUE CONVERTER

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		2 3 2	2 9 7	2 9 9	3 0 0	3 0 6	3 5 9	3 6 2	3 7 8	3 8 8	3 9 4	3 9 6	4 2 3
	8.3001	CONVERTER ASSY., TORQUE (CONT'D)											
		# INCLUDES 6774946 CONVERTER PLUS OPTION #137.											
	8.3077	GOVERNOR, TORQUE CONVERTER OUTPUT SHAFT											
		SEE ASSEMBLY BREAKDOWN PAGE A1.											
5126974	* GOVERNOR (GC838-AR1)			1		1							
5137807	* GOVERNOR (GC6995)									1			
5125400	* GOVERNOR (GC842-R2)								1				
5110622	* GOVERNOR (GC815-R3)												1
5164294	SPACER (13/32"X7/8"X1/8") (7.1581)									2			
5184098	LEVER, GOVERNOR SPEED CONTROL		1			1			1				
5147640	LEVER, GOVERNOR SPEED CONTROL (3.3110)												1
5182881	TUBE ASSY., FLEXIBLE (3/16" I.D. X 14") (TO TORQUE CONVERTER) (7.4074)			1		1			1				1
120401	ELBOW, 1/8" STREET 90 DEG. (12.9590)		1			1							
5166265	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (RESTRICTED)			1		1			1				1
141539	BUSHING, 1/4"-1/8" RED. PIPE (12.9570)		1			1			1				
189060	BUSHING, 3/4"-1/4" RED. PIPE (12.9570)		1			1			1				1
2094272	TEE, 1/8" PIPE (7.4586)								1				
186647	BOLT, 1/4"-20X1" (12.9001)		1			1			1				1
5148437	BOLT AND LOCKWASHER ASSY. (2.3260)		4			4			4				4
181370	BOLT, 3/8"-24X1 1/4" (12.9001)									2			
103319	LOCKWASHER, 1/4" (12.9200)		1			1			1				1
103320	LOCKWASHER, 5/16" (12.9200)		4			4							4
103321	LOCKWASHER, 3/8" (12.9200)									2			
117049	NUT, 3/8"-24 (12.9120)									2			
	* NOT SERVICED BY D.D.A., PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NO. SHOWN IN PARENTHESIS.												
	8.3083	BRACKET, TORQUE CONVERTER OUTPUT SHAFT GOVERNOR											
5136319	BRACKET									1			
186312	BOLT, 3/8"-24X4" (12.9001)									3			
103321	LOCKWASHER, 3/8" (12.9200)									3			

DETROIT DIESEL

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8.3000A TORQUE CONVERTER

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION										
		2	2	3	3	3	3	3	3	3	4	
		3	9	0	0	6	6	8	9	9	2	
		2	9	0	0	5	2	7	4	6	3	
		7	9	0	0	9		8				
8.3270 - SUPPORT, TORQUE CONVERTER												
5125807	SUPPORT, L.H.					1						
5125808	SUPPORT, R.H.					1						
5174895	SHIM (.060") (11.1080)					AR						
181431	BOLT, 1/2"-20X1 1/2" (12.9001)					10						
103323	LOCKWASHER, 1/2" (12.9200)					10						
103028	NUT, 1/2"-20 (12.9120)					10						

8.3000A TORQUE CONVERTER

PART		TYPES									
FIG	NUMBER	NAME AND DESCRIPTION	4	4	4						
			8	5	6						
				0	4						
	8.3001	CONVERTER ASSY., TORQUE									
		TORQMATIC CONVERTER ASSEMBLIES ARE AVAILABLE THROUGH D.D.A. SALES DEPARTMENT, C/O MANAGER, ENGINE DISTRIBUTION. COMPONENTS OF ALLISON TORQMATIC CONVERTER ASSEMBLIES ARE SHOWN IN ALLISON PARTS CATALOGS SA-1039 FOR 200, 300 SERIES AND SA-1116 FOR 400 SERIES.									
NPN		CONVERTER ASSY. (CUSTOMER FURNISHED)			1						
5140428	=	CONVERTER ASSY. (TCDOA-377)	1								
5140434	*	CONVERTER ASSY. (TCD-357)		1							
849330		CAP. TACHOMETER DRIVE ADAPTOR	1								
5107931		WASHER, TACHOMETER ADAPTOR (7.4457)	1								
5138360		PLUG, ORIFICE (.375" I.D.) (TORQUE CONVERTER OUTLET)	1								
2094272		TEE, 1/8" PIPE (7.4586)	1								
444260		TEE, 1/2" PIPE (12.9616)	1								
144050		BUSHING (12.9570)	1								
144034		BUSHING (12.9470)	1								
6832907		PLATE, NAME	1		1						
192413		SCREW, #4X1/4" DRIVE (12.9067)	4		4						
186619		BOLT, 3/8"-16X1 1/8" (12.9001)	12								
186622		BOLT, 3/8"-16X1 1/4" (12.9001)			12						
103321		LOCKWASHER, 3/8" (12.9200)	12		12						
		= INCLUDES 6774951 CONVERTER PLUS OPTION #137.									
		* INCLUDES 6778205 CONVERTER PLUS OPTION #137.									
	8.3077	GOVERNOR, TORQUE CONVERTER OUTPUT SHAFT									
		SEE ASSEMBLY BREAKDOWN PAGE A1.									
5125400	*	GOVERNOR (GC842-R1)	1								
5147640		LEVER, GOVERNOR SPEED CONTROL (3.3110)	1								
5182881		TUBE ASSY., FLEXIBLE (3/16" I.D. X 14") (TO TORQUE CONVERTER) (7.4074)	1								
5166265		ELBOW, 1/4" INV. FL. TUBE 90 DEG. (RESTRICTED)	1								
141539		BUSHING, 1/4"-1/8" RED. PIPE (12.9570)	1								
2094272		TEE, 1/8" PIPE (7.4586)	1								
186647		BOLT, 1/4"-20X1" (12.9001)	1								
5148437		BOLT AND LOCKWASHER ASSY. (2.3260)	4								

DETROIT DIESEL

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8.3000A TORQUE CONVERTER

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			4 4 8	4 5 0	4 6 4									
		8.3077 - GOVERNOR, TORQUE CONVERTER OUTPUT SHAFT (CONT'D)												
	103319	LOCKWASHER, 1/4" (12.9200)	1											
	103320	LOCKWASHER, 5/16" (12.9200)	4											
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NO. SHOWN IN PARENTHESIS.												
		8.3270 - SUPPORT, TORQUE CONVERTER												
	5125807	SUPPORT, L.H.			1									
	5125808	SUPPORT, R.H.			1									
	5174895	SHIM (.060") (11.1080)			AR									
	181431	BOLT, 1/2"-20X1 1/2" (12.9001)			10									
	103323	LOCKWASHER, 1/2" (12.9200)			10									
	103028	NUT, 1/2"-20 (12.8120)			10									

8.3000A TORQUE CONVERTER

		COLUMN													
PART ..FIG.. NUMBER		NAME AND DESCRIPTION													
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
		8.3077 - GOVERNOR, TORQUE CONVERTER OUTPUT SHAFT													
	5126974	*	GOVERNOR ASSY. (TORQUE CONVERTER MOUNTED)	1											
	5137807	*	GOVERNOR ASSY.		1										
	5125400	*	GOVERNOR ASSY.			1									
	5110622	*	GOVERNOR ASSY. (TORQUE CONVERTER MOUNTED)				1								
		*	SHOWN FOR COMPONENT REFERENCE ONLY												
		8.3370 - BODY, GOVERNOR													
7A	5195555	*	BODY (G9042-136)	1		1	1								
	5198623	*	BODY (G9042-180)		1										
	5145009		PLUG, 1/8" PIPE (12.9550)		1										
	5195556	*	PLUG (1/4" DIA. X 1/4"L.) (G11825)	1		1									
	2156249	*	SCREW, BUFFER (G5113-1) (8.3465)	1											
	5196099	*	SPRING, BUFFER (SN1481) (8.3465)	1											
	5195596	*	CUP, OIL (X495)		1										
	5197813	*	TAG, OIL LEVEL (X1945)		1										
	5197851	*	TAG, OIL CUP (X4207)		1										
	5195597	*	OILER (X2054)		1										
	120613		NUT, 1/4"-28 (BUFFER SCREW LOCK) (12.9120)	1											
	123298		BOLT, 1/4"-28X3/8" (12.9001)			1									
	5195569	*	WASHER, 1/4" COPPER (X923) (8.3475)			1									
		*	NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NO. SHOWN IN PARENTHESES.												
		8.3380 - BASE, GOVERNOR													
	5195553	*	BASE (G11330)	1		1	1								
	5197805	*	BASE (G11314-1)		1										
	147112		SCREW, #10-24X3/4" (12.9027)		4		4								
7A	5197271	*	BOLT, #10-24X3/4" (SOC. HD.)	4		4									
	120217		LOCKWASHER, #10 (12.9200)	4	4	4	4								
		*	NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NO. SHOWN IN PARENTHESES.												
		8.3385 - OIL SEAL GOVERNOR BASE													
	5197812	*	SEAL (X1221)		1										
		*	NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND.												

8.3000A TORQUE CONVERTER

			COLUMN													
FIG	PART NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		8.3385 - OIL SEAL GOVERNOR BASE (CONT'D)														
		FURNISH THEIR PART NUMBER SHOWN IN PARENTHESES.														
		8.3390 - GASKET, GOVERNOR BODY TO BASE														
7A	5195554	* GASKET (X1425)	1	1	1	1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
		8.3400 - SPIDER AND SHAFT ASSY., GOVERNOR OPERATING														
7A	5197265	* SHAFT ASSY. (A6644)	1		1											
	5197810	* SHAFT ASSY. (A6734)		1												
	5195552	* SHAFT ASSY. (A4748)				1										
7A	5196701	* PIN, WEIGHT (G14007) (2.7430)	4	2	4	4										
7A	9411504	CLIP, WEIGHT PIN RETAINER ("C" WASHER) (2.7430)	4	2	8	4										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
		8.3405 - WEIGHT ASSY., GOVERNOR														
7A	5196073	* WEIGHT ASSY. (A2447)	4		4											
	5197815	* WEIGHT ASSY. (A2499)		2												
	5195551	* WEIGHT ASSY. (A2430)				4										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
		8.3410 - BEARING, GOVERNOR OPERATING SHAFT														
7A	907045	* BEARING (N.D. 3202L1A) (X310) (2.7430)	1	1	1	1										
7A	274843	* RING, SNAP (TO BASE) (X1921)	1		1	1										
7A	274273	* RING, SNAP (TO SHAFT) (X1290)	1		1	1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESES.														

8.3000A TORQUE CONVERTER

PART			COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
8.3420 - RISER, GOVERNOR																
'A	5196104	* RISER (G10813) (2.7380)	1	1	1											
	2252407	* RISER (G9846)				1										
	5196117	* RING, SNAP (X1923) (2.7350)	1	1	1											
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
8.3425 - BEARING, GOVERNOR RISER THRUST																
'A	9411475	* BEARING (3 PIECE) (X1336A) (2.7460)	1	1	1	1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
8.3430 - FORK, GOVERNOR OPERATING																
'A	5196103	* FORK (G9838) (2.7290)	1	1	1											
	2156238	* FORK (G6026)					1									
'A	5195577	* SCREW (WITH LOCKWASHER) (X1687)	2	2	2	2										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
8.3435 - SHAFT, GOVERNOR ROCKER																
A	5197269	* SHAFT (G14337)	1		1											
	5197811	* SHAFT (G14311)		1												
	5195572	* SHAFT (G11667)				1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
8.3440 - BEARING, GOVERNOR ROCKER SHAFT																
A	2156235	* BEARING (X328)	2	2	2	2										
A	274844	RING, SNAP	2	2	2	2										
A	2252405	PLUG (1 3/32" O.D., REVERSED CUP) (8.3370)	1			1										

DETROIT DIESEL

53 MPC ENGINES

8.3000A TORQUE CONVERTER

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
		8.3440 - BEARING, GOVERNOR ROCKER SHAFT (CONT'D)														
	103893	PLUG, 7/8" EXPANSION (2.7230)			1											
	5196088	* WASHER (X2307) (2.7260)			1											
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND, INC. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
		8.3445 - SEAL, GOVERNOR ROCKER SHAFT OIL														
7A	2363528	* SEAL (X1566)	1	2	1	1										
7A	5195574	* RETAINER, OIL SEAL (G12211)	1	2	1	1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
		8.3450 - LEVER, GOVERNOR ROCKER SHAFT THROTTLE														
7A	5197267	* LEVER (G8240-1)	1		1											
	5197814	* LEVER (A6304)		1												
7A	455346	PIN, 5/32"X3/4" SPRING (12.9275)	1	2	1											
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND INC. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
		8.3455 - BRACKET, GOVERNOR SPEED ADJUSTING SHAFT														
7A	5195557	* BRACKET (G10188-1)	1	1	1											
7A	138201	BOLT, 1/4"-20X3/4" SOC. HD. (12.9027)	2	2	2											
	108578	LOCKWASHER, 1/4" (12.9200)	2	2	2											
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND IND. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.														
		8.3460 - LEVER, GOVERNOR SPEED ADJUSTING SPRING														
7A	5195573	* LEVER (ON ROCKER SHAFT) (G8106)	1		1											
7A	5195560	* LEVER (ON SPEED ADJUSTING SHAFT) (G8234)	1		1											

8.3000A TORQUE CONVERTER

PART		COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		8.3460 - LEVER, GOVERNOR SPEED ADJUSTING SPRING (CONT'D)													
	5197807	* LEVER (G6303)		1											
	5197808	* LEVER (G8115-1)		1											
7A	455346	PIN, 5/32"x3/4" SPRING (12.9275)	2	2	2										
7A	5197266	* BOLT, EYE (1/4"-28X2") (G8748)	1	1	1										
7A	5197270	* BOLT, LIMIT ADJUSTING (X1032-11)	2	2	2										
	5195593	* NUT, #12-24 CROSS DRILLED (X991)		2											
7A	103089	NUT, #12-24 (12.9120)	2		2										
7A	120613	NUT, 1/4"-28 (12.9120)	2	2	2										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND INC. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.													
		8.3465 - SPRING, GOVERNOR SPEED ADJUSTING													
7A	5195582	* SPRING (SN1236)	1												
	5197809	* SPRING (SN1351)		1											
	5195562	* SPRING (SN1344)			1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND INC. FURNISH THEIR PART NO. SHOWN IN PARENTHESIS.													
		8.3470 - SHAFT, GOVERNOR SPEED ADJUSTING													
7A	5197268	* SHAFT (G8861)	1		1										
	5197806	* SHAFT (G11028)		1											
7A	5195559	* SPACER (G2608)	1	1	1										
7A	274844	RING, SNAP (8.3440)	1	1	1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND INC. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.													
		8.3475 - CONNECTION, GOVERNOR TACHOMETER SHAFT													
7A	5195712	* CONNECTION ASSY. (A6191)	1	1	1										
7A	138510	WASHER	1	1	1										
7A	5195571	LOCKNUT (X1114)	1	1	1										
	5195569	GASKET (X923)			1										
		* NOT SERVICED BY D.D.A. PROCURE FROM PIERCE GOV. CO. UPLAND INC. FURNISH THEIR PART NUMBER SHOWN IN PARENTHESIS.													

8.3000B TRANSMISSION LINES

PART		TYPES									
FIG	NUMBER	NAME AND DESCRIPTION									
		1 2 3	1 3 4	1 3 8	1 4 2	1 5 7	1 8 6	1 9 3	1 9 5	1 9 9	2 0 2
8.3800 - TUBE, CONVERTER TO OIL COOLER											
5137685	HOSE, 13/32" X 33"								1		
5199578	HOSE, BULK #12 (CUT L. 50") (12.8550)							1		1	
5199578	HOSE, BULK #12 (CUT L. 37.2")								1		1
9410977	ELBOW, 90 DEG. X 1/2" TUBE								1		
9410979	ELBOW, 90 DEG. X 3/4" TUBE									1	1
5176705	ELBOW, 3/4" TUBE, 3/4" PIPE									1	
118757	ELBOW, 90 DEG. FL. TUBE (12.9390)								1		
142767	BUSHING, 3/4" X 3/8" RED. (12.9570)								1		
274249	SEAL O'RING, 3/4" TUBING O.D. (12.9437)									1	1
5199916	FITTING, #12 BULK HOSE (STRAIGHT) SWIVEL (12.8552)							2			2
9402711	ADAPTOR, 3/4" P.T. TUBE (12.9415)							1	1		1
8.3818 - TUBE, OIL COOLER TO CONVERTER											
5182896	HOSE, FLEX. (5/8" I.D. X 47 9/16" L.)				1						
5182900	HOSE, FLEX. (5/8" I.D. X 53 3/16" L.)	1									
5177665	HOSE, FLEX. (5/8" I.D. X 56 1/4" L.)					1					
5123315	HOSE, FLEX. (13/32" I.D. X 41")								1		
5187150	HOSE, FLEX. (5/8" I.D. X 58 1/4" L.)		1								
5199578	HOSE, BULK #12 (CUT L. 50") (12.8550)							1		1	1
5199916	FITTING, #12 BULK HOSE ST. SWIVEL (12.8552)							2			
9402711	ADAPTOR, 3/4" NPTF FL. TUBE (12.9415)							1			
9410977	ELBOW, 90 DEG. 1/2" TUBE (12.9391)								1		
5176705	ELBOW (3/4" TUBE, 3/4" PIPE) (8.3800)	1	1		1	1		2			
141621	ELBOW, 3/8" STREET 90 DEG. (12.9590)	1	1		1	1					
5148269	ELBOW ASSY., 1/2" TUBE 90 DEG. (4.4330)							2			
9410979	ELBOW, 90 DEG. 3/4" TUBE (12.9390)									1	
118757	ELBOW, 90 DEG. FL. TUBE (12.9390)								1		
142767	BUSHING, 3/4" X 3/8" RED. (12.9570)								1		
274249	SEAL O'RING, 3/4" TUBING O.D. (12.9437)									1	1
9402711	CONNECTOR, 3/4" TUBE, 3/4" P.T. (12.9415)									1	1
8.3819 - CLIP, OIL COOLER TO CONVERTER TUBE											
5157702	CLIP (4.8040)	1	3		1	1	2	1		2	3
5146788	CLIP, 13/16" NEOPRENE								2		
5114541	BRACKET, CLIP (7.1585)	1	1		1	1					
5181325	BRACKET, CLIP (4.8042)								1		
5178595	BRACKET, CLIP (2.5030)		1								
179812	BOLT, 5/16"-18 X 1/2" (12.9001)		1								
186625	BOLT, 5/16"-18 X 7/8" (12.9001)								1		
179838	BOLT, 3/8"-16 X 7/8" (12.9001)										1
181360	BOLT, 3/8"-24 X 3/4" (12.9001)	1	2		1	1					
103320	LOCKWASHER, 5/16" (12.9200)		1						1		
103321	LOCKWASHER, 3/8" (12.9200)	AR	AR		AR	AR					1
117049	NUT, 3/8"-24 (12.9120)	1	2		1	1					1
102635	NUT, 3/8"-16 (12.9120)										
120376	NUT, 5/16"-18 (12.9120)								1		
8.3827 - TUBE, CONVERTER TO FILTER											
5121808	HOSE (8.3825)	1	1		1	1					
5122417	HOSE, 5/8" I.D. X 21" (9.9630)						1				
144613	NIPPLE, 3/4" X 3/8" PIPE (12.9560)	1	1		1	1					
5177664	ADAPTOR, 3/4" FLARED TUBE						2				

8.3000B TRANSMISSION LINES

PART		TYPES																	
FIG . . .	NUMBER	NAME AND DESCRIPTION																	
		1 2 3	1 3 4	1 3 8	1 4 2	1 5 7	1 8 6	1 9 3	1 9 5	1 9 9	2 0 2								
8.3827 - TUBE, CONVERTER TO FILTER (CONT'D)																			
179735	BUSHING, 3/4" X 1/8" RED. (12.9570)						1												
189775	TEE, 1/2"X3/4"X3/4" RED. PIPE (12.9616)	1	1		1	1													
147885	TEE, 3/4" PIPE ST. (12.9616)						1												
5115214	PLUG, 1/2" PIPE (12.9550)	1	1		1	1													
8.3828 - TUBE, FILTER TO OIL COOLER																			
5177697	HOSE, FLEX. (5/8" I.D.X20 5/8"L)				1														
5120683	HOSE, FLEX. (5/8" I.D.X25 1/2"L)	1																	
5178023	HOSE, FLEX. (5/8" I.D.X29 1/2"L)					1													
5113643	HOSE, FLEX. (5/8" I.D.X25 29/32"L)						1												
5120029	HOSE, FLEX. (5/8" I.D.X36"L)		1																
5183095	HOSE, FLEX. (5/8" I.D.X53 3/16"L)						1												
5176705	ELBOW (3/4" TUBE, 3/4" PIPE) (8.3800)	1	1		1	1	4												

8.3000B TRANSMISSION LINES

PART ..FIG .. NUMBER	NAME AND DESCRIPTION	TYPES									
		1 2 3	1 3 4	1 3 8	1 4 2	1 5 7	1 8 6	1 9 3	1 9 5	1 9 9	2 0 2
	8.3828 - TUBE, FILTER TO OIL COOLER (CONT'D)										
141621	ELBOW, 3/4" STREET 90 DEG. (12.9590)	1	1		1	1					
	8.3840 - DIPSTICK, TORQUE CONVERTER										
5148386	DIPSTICK (X-31.62", Y-.65", Z-29.94") (4.4370)							1		1	1
5147676	DIPSTICK (X-30.38", Z-28.58") (9.4012)								1		
	8.3841 - ADAPTOR, TORQUE CONVERTER DIPSTICK										
5148306	ADAPTOR (DEV. L. 47.19") (4.4371)							1		1	1
5147395	ADAPTOR (9.4013)								1		
	8.3842 - CLIP, DIPSTICK TORQUE CONVERTER										
5145492	CLIP, 3/4" I.D. 13/32" BOLT HOLE (3.5507)							1		1	1
5151189	CLIP, 3/4" SPECIAL (4.8040)								1		
5126358	BRACKET, ADAPTOR SUPPORT (4.6040)								1		
179838	BOLT, 3/8"-16 X 7/8" (12.9001)								1		
103321	LOCKWASHER, 3/8" (12.9200)								1		
102635	NUT, 3/8"-16 (12.9120)								1		
	8.3870 - FILTER ASSY., CONVERTER OIL										
	INCLUDES ITEMS IN 8.3872 THRU 8.3876 AND 8.3884 THRU 8.3890.										
5196393	FILTER ASSY. (9.3650)	1	1	1	1	1	1				
179839	BOLT, 3/8"-16X1" (12.9001)	4	4	4	4	4	4				
103321	LOCKWASHER, 3/8" (12.9200)	4	4	4	4	4	4				
	8.3872 - ELEMENT, CONVERTER OIL FILTER										
5573014	ELEMENT (INCLUDES GASKET IN 4.3875) (4.2250)	1	1	1	1	1					
	8.3873 - ADAPTOR, CONVERTER OIL FILTER										
5123382	ADAPTOR (4.2290)	1	1	1	1	1					
5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1	1	1					
	8.3874 - SHELL, CONVERTER OIL FILTER										
5574008	SHELL (4.2280)	1	1	1	1	1					
5573162	DECAL (4.2280)	1	1	1	1	1					
	8.3875 - GASKET, CONVERTER OIL FILTER SHELL										
5571024	GASKET (4.2300)	1	1	1	1	1					

8.3000B TRANSMISSION LINES

PART		TYPES																	
FIG	NUMBER	NAME AND DESCRIPTION																	
		1 2 3	1 3 4	1 3 8	1 4 2	1 5 7	1 8 6	1 9 3	1 9 5	1 9 9	2 0 2								
8.3876 - SCREW, CONVERTER OIL FILTER COVER																			
5120740	STUD (4.2410)	1	1	1	1	1													
5187308	SPRING (4.2310)	1	1	1	1	1													
5187309	RETAINER, SPRING (4.2315)	1	1	1	1	1													
5187310	GASKET, RETAINER (4.2330)	1	1	1	1	1													
5120602	RING, RETAINING SNAP (2.4227)	1	1	1	1	1													
5154538	WASHER (1.8182)	1	1	1	1	1													
5574130	GASKET	1	1	1	1	1													
8.3880 - BRACKET, CONVERTER																			
5121884	BRACKET	1	1	1	1	1	1												
186622	BOLT, 3/8"-16X1 1/4" (12.9001)	2	2	2	2	2													
186612	BOLT, 3/8"-16X1 3/8" (12.9001)						2												
8.3884 - VALVE, OIL FILTER PRESSURE REGULATOR																			
5133431	VALVE (4.2485)	1	1	1	1	1													
8.3886 - SPRING, OIL FILTER PRESSURE REGULATOR																			
5133594	SPRING (4.2486)	1	1	1	1	1													
8.3888 - PLUG, OIL FILTER PRESSURE REGULATOR																			
5126686	PLUG (4.2488)	1	1	1	1	1													
8.3890 - GASKET, OIL FILTER PRESSURE REGULATOR PLUG																			
5575086	GASKET (4.2489)	1	1	1	1	1													

GROUP NOMENCLATURE

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

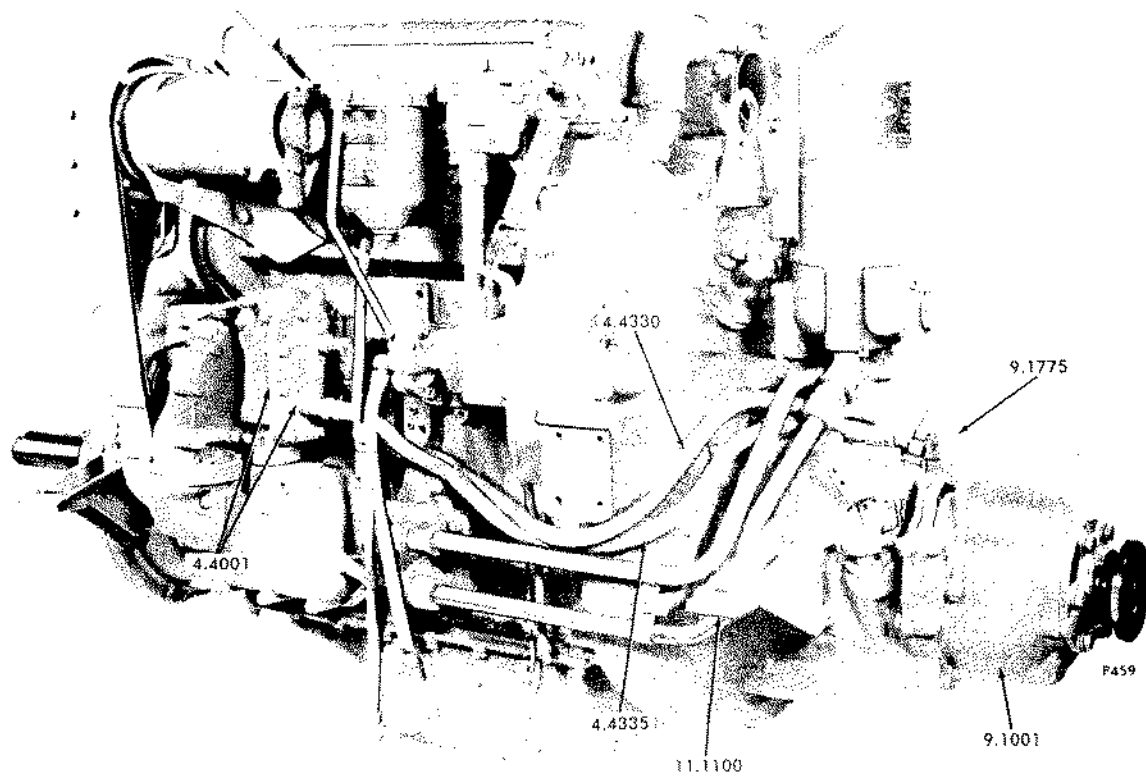


FIG. 1A TYPICAL INLINE MARINE GEAR INSTALLATION

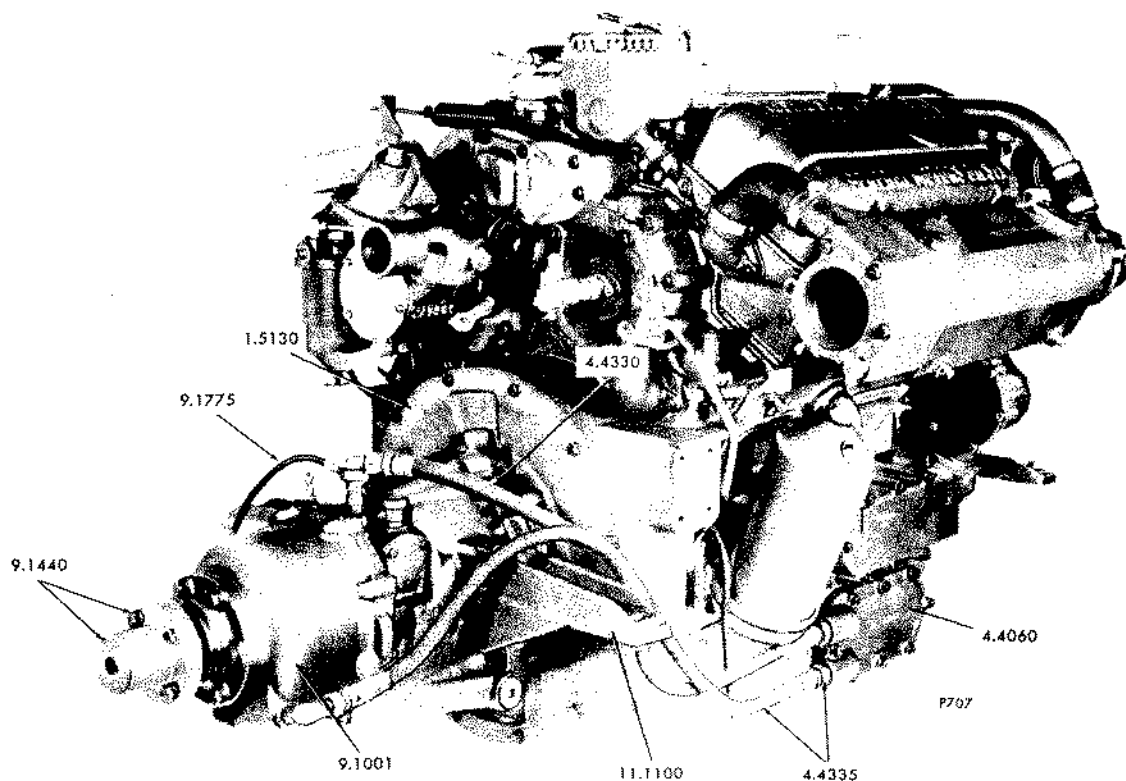


FIG. 1B TYPICAL V-53 MARINE GEAR INSTALLATION

Figs. 1A & 1B of 9.0000

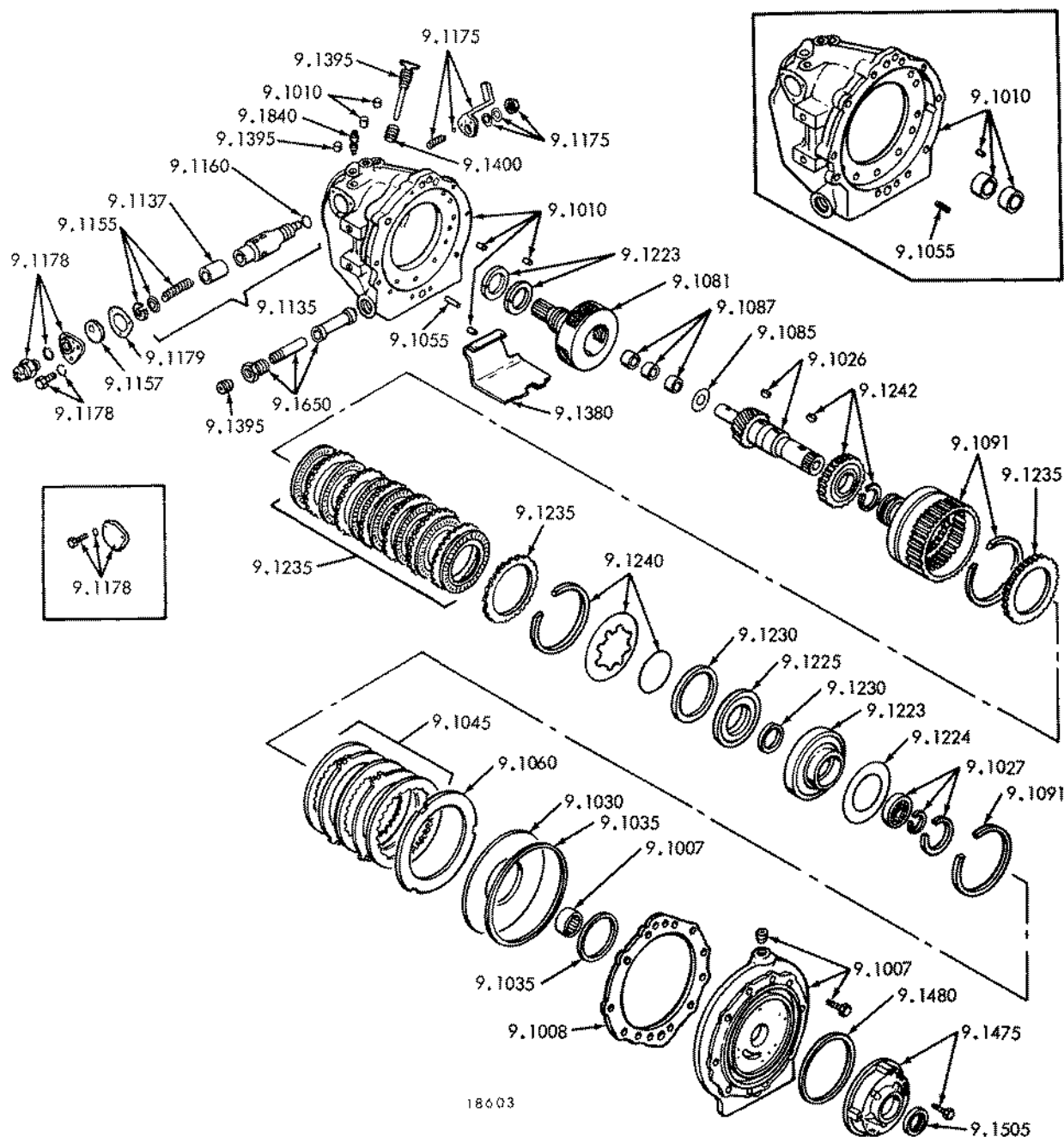


FIG. 2A HYDRAULIC MARINE GEAR (Model 71 and 72)

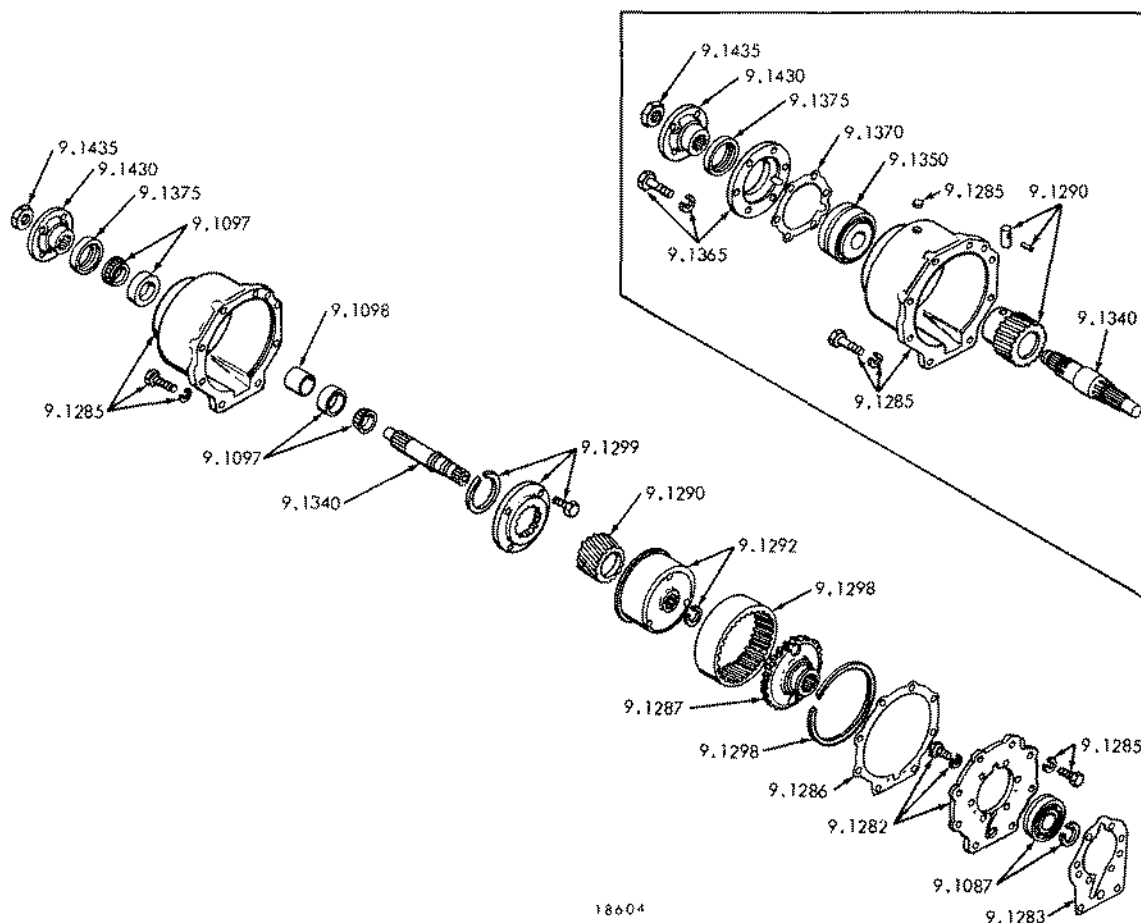


FIG.2B 1.5:1 REDUCTION GEAR (Model 71 and 72)

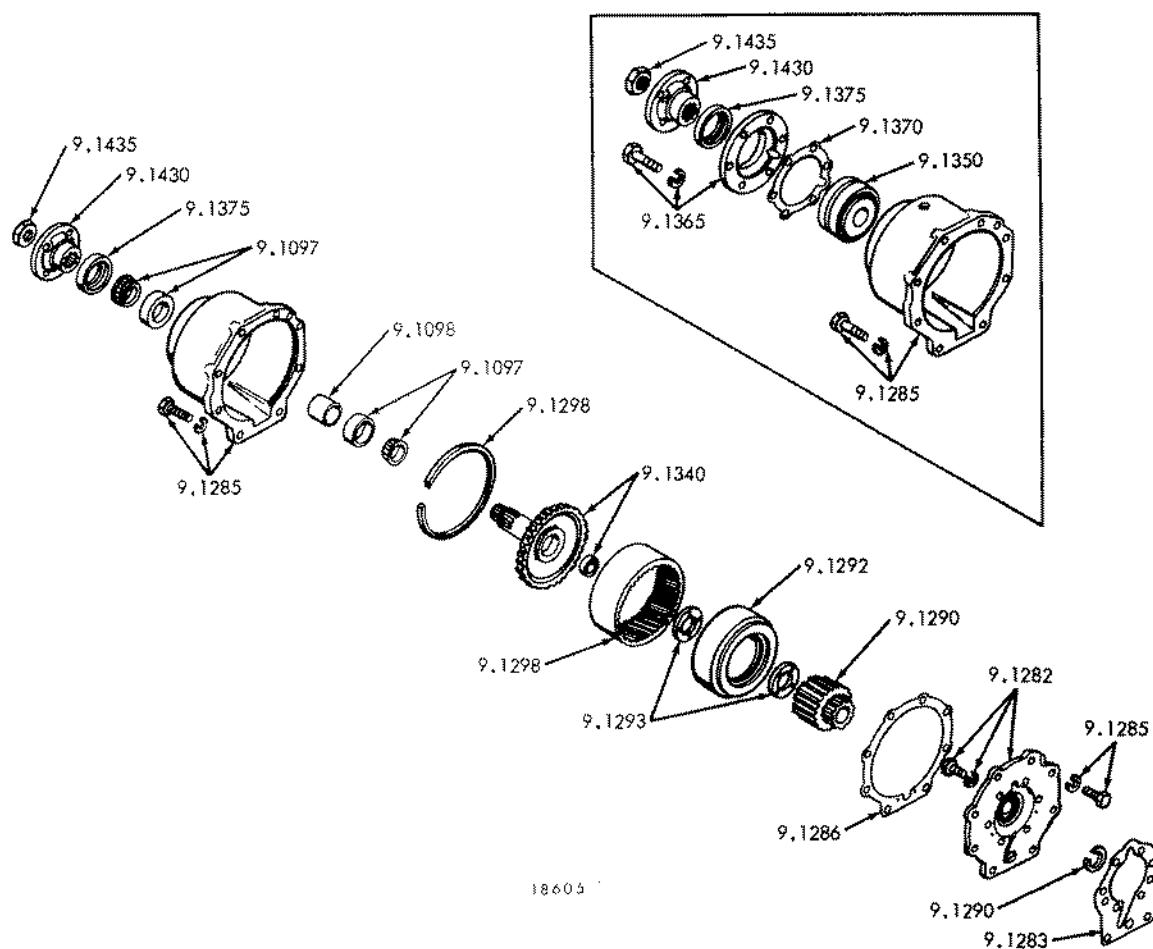


FIG. 2C REDUCTION GEAR (Model 71 and 72)

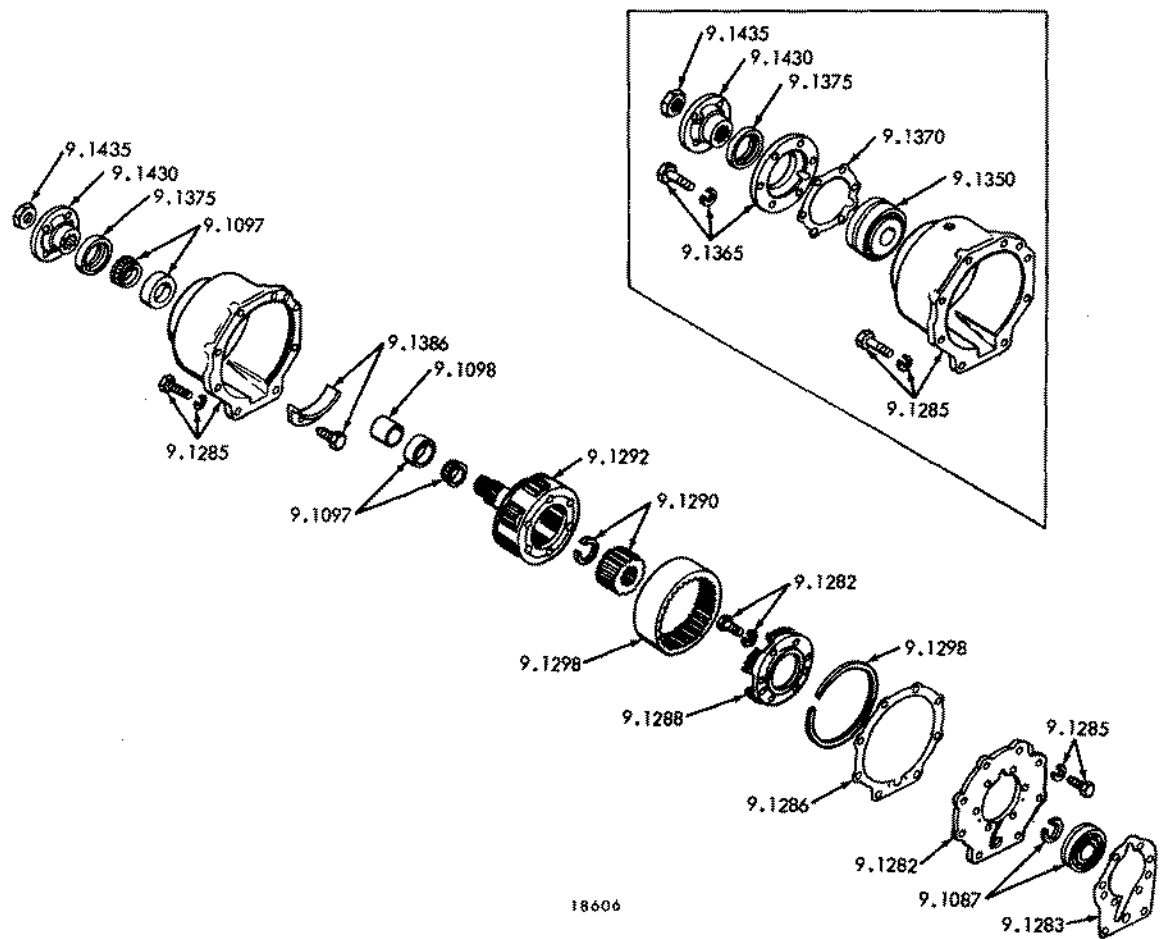


FIG. 2D 2.5:1 AND 3:1 REDUCTION GEAR (Model 71 and 72)

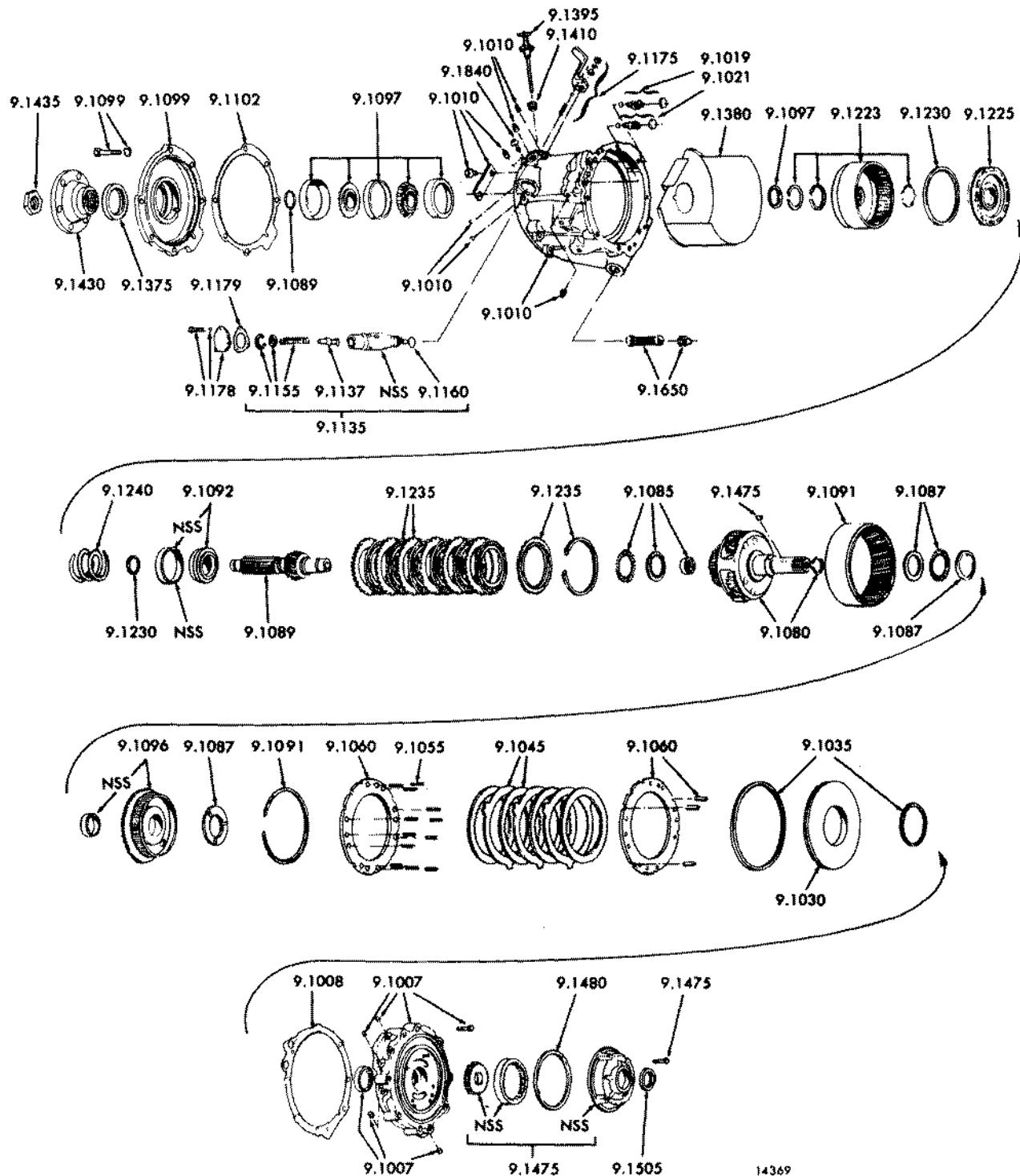


FIG. 2E HYDRAULIC MARINE GEAR - DIRECT DRIVE (Model 73)

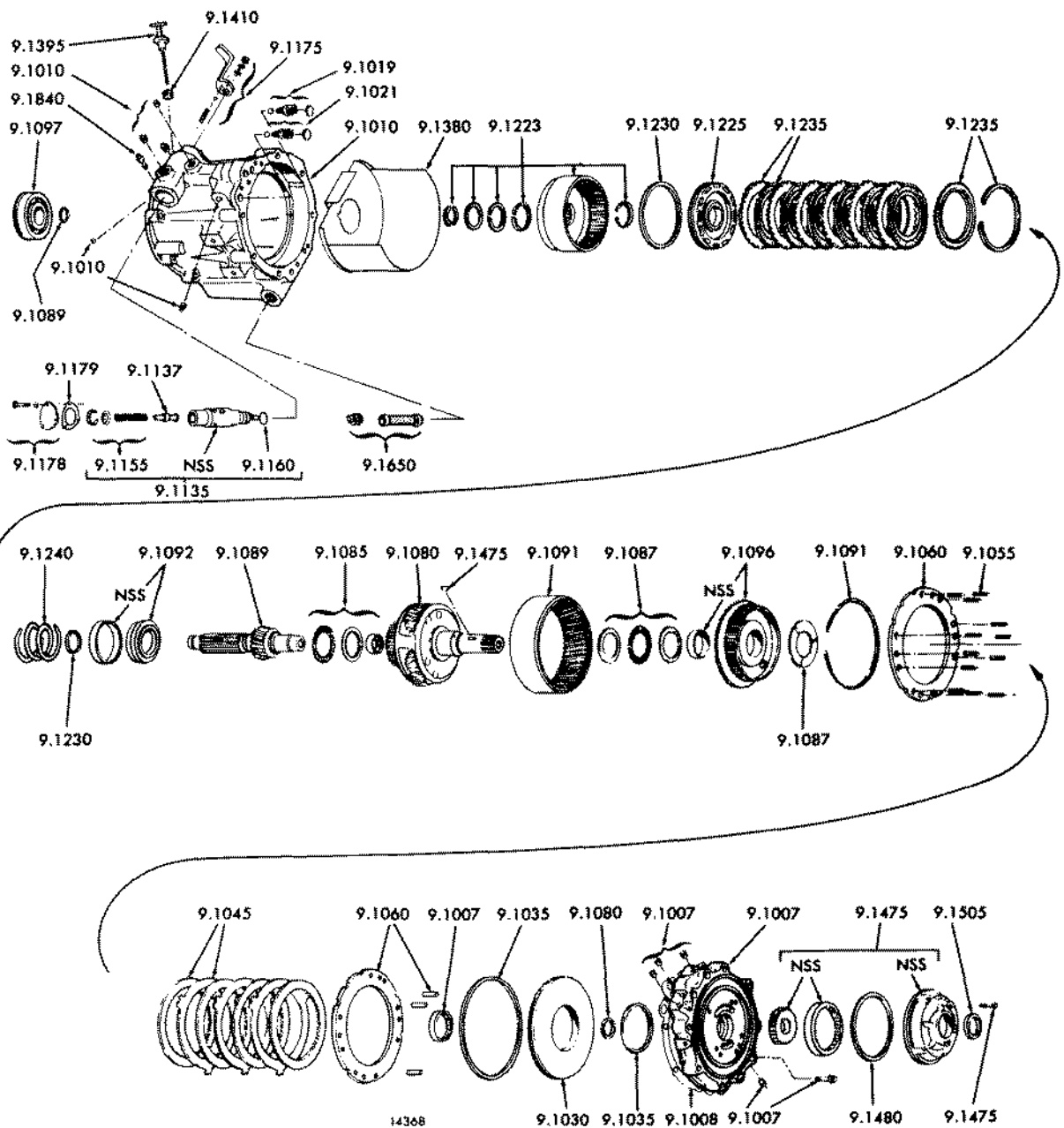


FIG. 2F HYDRAULIC MARINE GEAR -
1.5:1, 2:1 and 3:1 REDUCTION (Model 73)

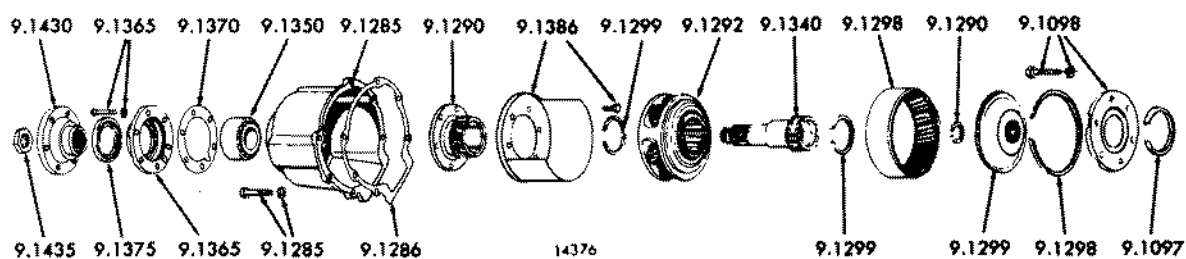


FIG. 2G 1.5:1 REDUCTION GEAR (Model 73)

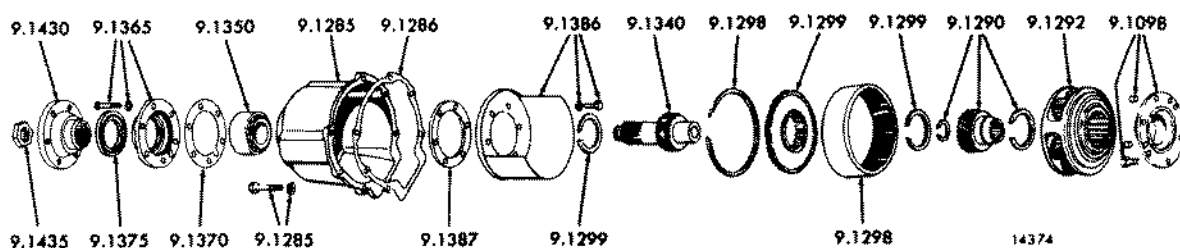


FIG. 2H 2:1 REDUCTION GEAR (Model 73)

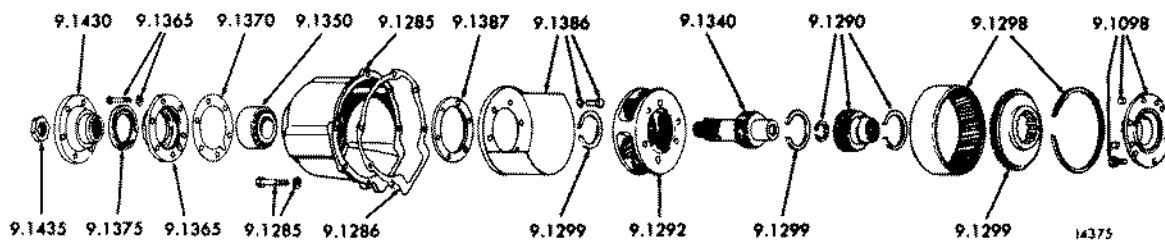


FIG. 2J 3:1 REDUCTION GEAR (Model 73)

Figs. 2G, 2H & 2J of 9.0000

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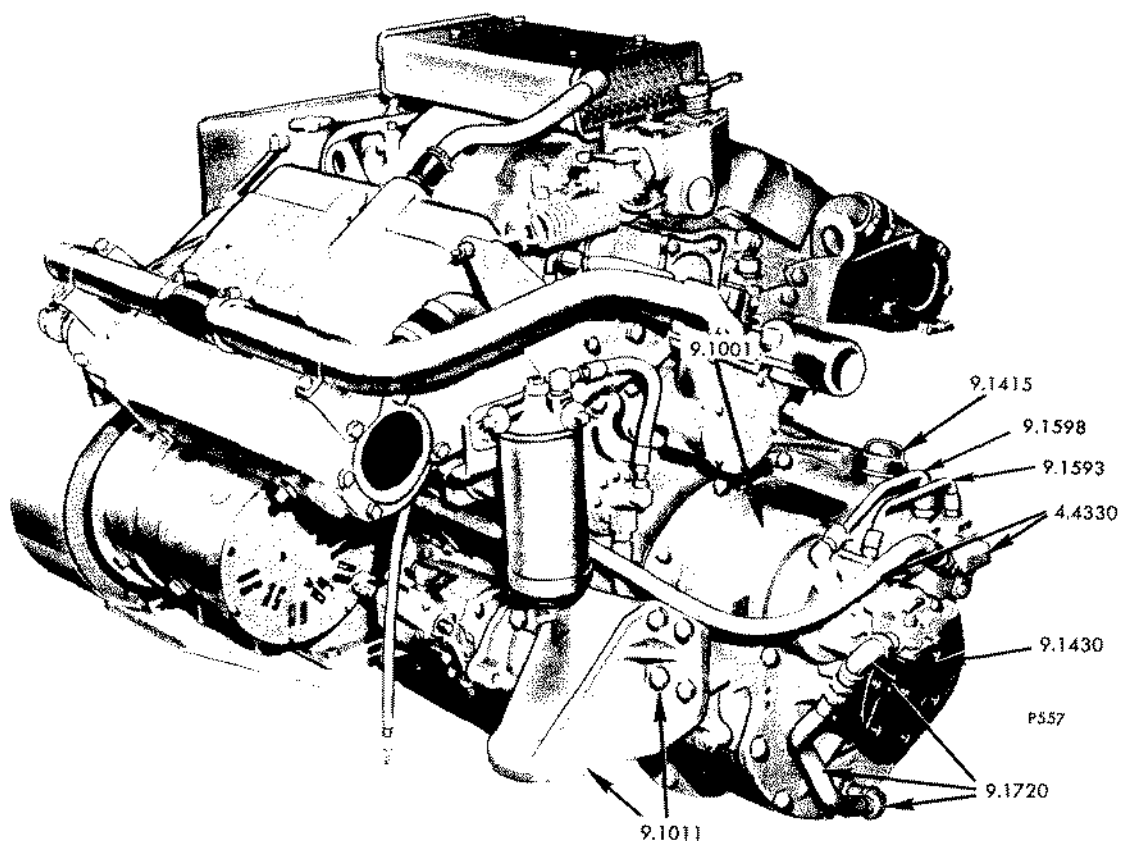


FIG. 3A TYPICAL MARINE GEAR INSTALLATION (Twin Disc Gear)

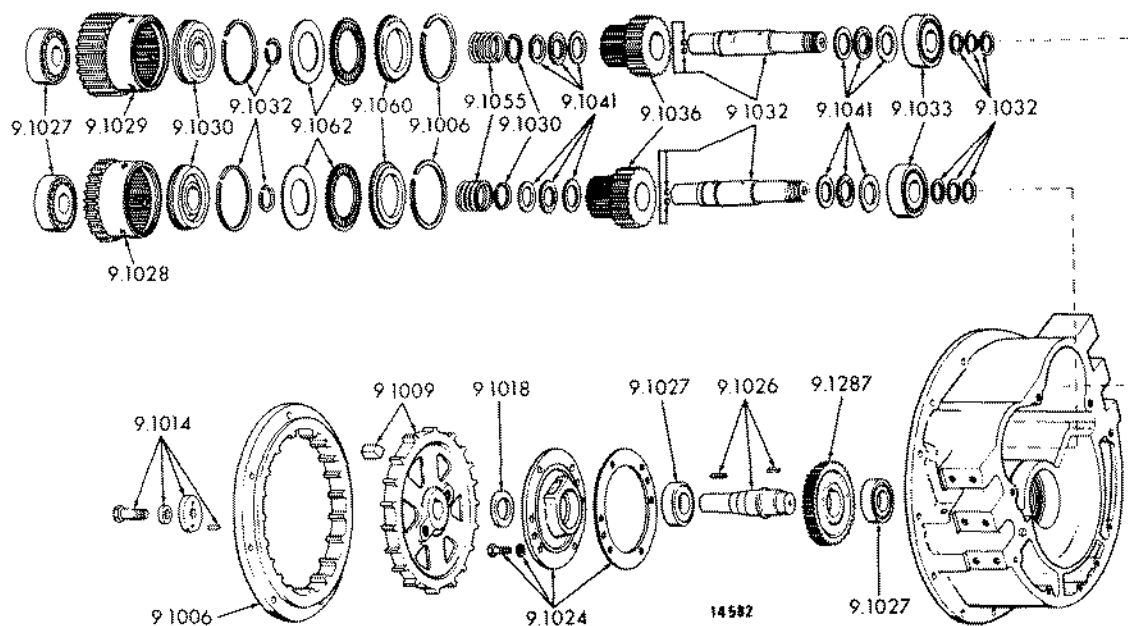


FIG. 4A MARINE GEAR (Input and Clutch - Twin Disc)

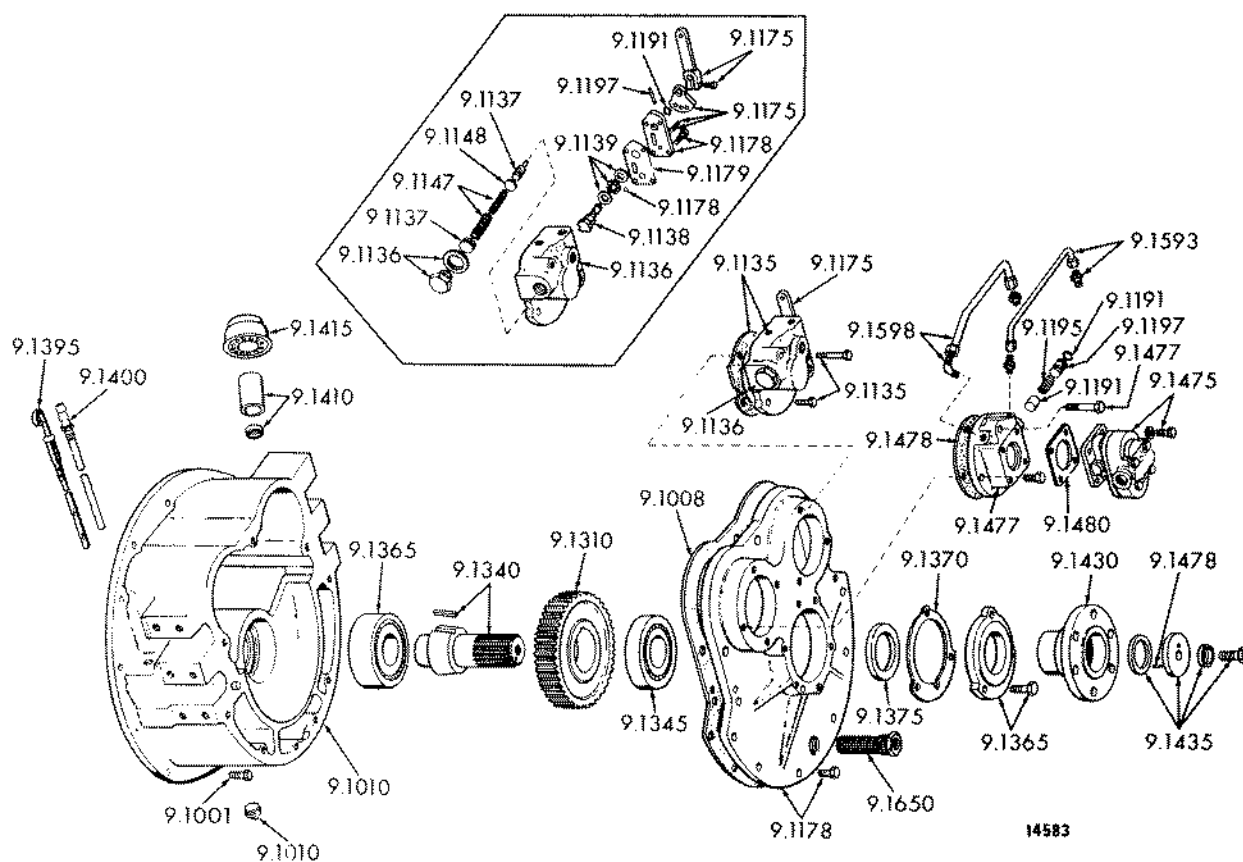


FIG. 4B MARINE GEAR (Output End, Pump and Selector Valve - Twin Disc)

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 2 2	3 2 3	3 2 4	3 2 5	3 2 6	3 2 7	3 2 8	3 2 9	3 3 0	3 3 1	4 9 5	4 9 6
		9.1001 - GEAR ASSY., HYDRAULIC MARINE												
		REFER TO ASSEMBLY BREAKDOWN AS INDICATED.												
	5122586	# GEAR ASSY., DIRECT, L.H. (PAGE A1)												
		AS1-71A (5106304)	1											
	5122587	# GEAR ASSY., DIRECT, R.H. (PAGE A1)												
		AS1-71R (5106305)		1										
1A	5122588	# GEAR ASSY., 1.5:1, L.H. (PAGE A1)												
		AS2-71R (5106306)			1									
1A	5122589	# GEAR ASSY., 1.5:1, R.H. (PAGE A1)												
		AS2-71AR (5106307)				1								
1A	5122590	# GEAR ASSY., 2:1, L.H. (PAGE A1)												
		AS3-71A (5106308)					1							
1A	5122591	# GEAR ASSY., 2:1, R.H. (PAGE A1)												
		AS3-71AR (5106309)						1						
1A	5122593	# GEAR ASSY., 2.5:1, R.H. (PAGE A1)												
		AS4-71AR (5106311)							1					
1A	5122594	# GEAR ASSY., 2.5:1, L.H. (PAGE A1)												
		AS4-71A (5106310)								1				
1A	5122595	# GEAR ASSY., 3:1, R.H. (PAGE A1)												
		AS5-71AR (5106313)									1			
1A	5122596	# GEAR ASSY., 3:1, L.H. (PAGE 1A)												
		AS5-71A (5106312)										1		
1B	5127847	# GEAR ASSY., DIRECT, L.H. (PAGE D1)												
		AS1-72A (5106314)											1	
1B	5127851	# GEAR ASSY., DIRECT, R.H. (PAGE D1)												
		AS1-72A (5106315)												1
1B	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1	1
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)	6	6	6	6	6	6	6	6	6	6	6	6
	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6	6	6
		# NOT SERVICED, USE PART NUMBER IN PARENTHESES.												
		9.1006 - COUPLING, MARINE GEAR DRIVE												
	5128731	COUPLING	1	1	1	1	1	1	1	1	1	1		
	5126826	COUPLING											1	1
	9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
		9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL												
	5196739	+ GASKET KIT (INCLUDES NECESSARY GASKETS AND SNAP RINGS FOR ONE COMPLETE OVERHAUL)	1	1	1	1	1	1	1	1	1	1	1	1
		+ NOT SERVICED, USE 5149636 AND 5149638.												

9.1000A HYDRAULIC MARINE GEAR

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	3 2 2	3 2 3	3 2 4	3 2 5	3 2 6	3 2 7	3 2 8	3 2 9	3 3 0	3 3 1	4 9 5	4 9 6
9.1440 - COUPLING, PROPELLER DRIVE SHAFT														
		GEAR ASSEMBLIES (SEE CHART) COME WITH A 3 1/4" B.C. FLANGE; TO USE A COUPLING WITH 4 1/4" BOLT CIRCLE, FLANGE MUST BE CHANGED (SEE 9.1430).												
IB	5122654	COUPLING, 3 1/4" B.C., 1" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5122655	COUPLING, 3 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5122656	COUPLING, 3 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5122657	COUPLING, 3 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5123209	COUPLING, 3 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5109351	* COUPLING, 3 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
IB	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
	5145092	BOLT, 3/8"-24X1.12" (3 1/4" COUPLING) (12.5015)	4	4	4	4	4	4	4	4	4	4	4	4
	5122430	BOLT, 7/16"-20X1.18" (4 1/4" COUPLING)	4	4	4	4	4	4	4	4	4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
	103026	NUT, 3/8"-24 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
		* PARTIALLY MACHINED; MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.												
9.1775 - TUBE, OIL PRESSURE GAGE														
A	5131604	* HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1	1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118753	ELBOW, 1/4" TUBE 90 DEG. STREET (12.9480)	1	1	1	1	1	1	1	1	1	1	1	1
		* UNITS THRU 3D-35664, 4D-36584, 6D-30357, INCLUDE 1-118753 ELBOW.												

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	4 9 7	4 9 8	4 9 9	5 0 0	5 0 1	5 0 2	5 0 3	5 0 4	5 1 6	5 1 7	5 1 8	5 1 9
9.1001 - GEAR ASSY., HYDRAULIC MARINE														
REFER TO ASSEMBLY BREAKDOWN AS INDICATED.														
	5122586	# GEAR ASSY., DIRECT, L.H. (PAGE A1)												
		AS1-71A (5106304)									1			
	5122587	# GEAR ASSY., DIRECT, R.H. (PAGE A1)												
		AS1-71A (5106305)										1		
A	5122588	# GEAR ASSY., 1.5:1, L.H. (PAGE A1)												
		AS2-71A (5106306)											1	
A	5122589	# GEAR ASSY., 1.5:1, R.H. (PAGE A1)												
		AS2-71AR (5106307)												1
B	5127848	# GEAR ASSY., 1.5:1, L.H. (PAGE D1)												
		AS2-72A (5106316)	1											
IB	5127852	# GEAR ASSY., 1.5:1, R.H. (PAGE D1)		1										
		AS2-72AR (5106317)												
IB	5126825	# GEAR ASSY., 2:1, L.H. (PAGE D1)												
		AS3-72A (5106320)			1									
IB	5126824	# GEAR ASSY., 2:1, R.H. (PAGE D1)												
		AS3-72AR (5106321)				1								
IB	5127849	# GEAR ASSY., 2.5:1, L.H. (PAGE D1)												
		AS4-72A (5106322)					1							
B	5127853	# GEAR ASSY., 2.5:1, R.H. (PAGE D1)												
		AS4-72AR (5106323)						1						
B	5127850	# GEAR ASSY., 3:1, L.H. (PAGE D1)												
		AS5-72A (5106324)							1					
IB	5127854	# GEAR ASSY., 3:1, R.H. (PAGE D1)												
		AS5-72AR (5106325)								1				
B	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1	1
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)			6	6	6	6	6	6	6	6	6	6
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)	6	6	6	6	6	6	6	6	6	6	6	6
	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6	6	6
		# NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.												
9.1003 - HOUSING, MARINE GEAR DRIVE														
	5128819	& HOUSING ASSY. (INCLUDES PINS)									1	1	1	1
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)									2	2	2	2
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)									4	4	4	4
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)									2	2	2	2
	103321	LOCKWASHER, 3/8" (12.9200)									4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)									2	2	2	2
		& OBSOLETE.												
9.1004 - FLANGE, MARINE GEAR DRIVE														
	5128825	* FLANGE									1	1	1	1
	5119189	CONE (1.3295)									2	2	2	2
	5180291	RETAINER (WASHER) (1.3290)									1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	4 9 7	4 9 8	4 9 9	5 0 0	5 0 1	5 0 2	5 0 3	5 0 4	5 1 6	5 1 7	5 1 8	5 1 9
		9.1004 - FLANGE, MARINE GEAR DRIVE (CONT'D)												
	271630	BOLT, 3/4"-16X1 1/2" (12.9001) * OBSOLETE									1	1	1	1
		9.1006 - COUPLING, MARINE GEAR DRIVE												
	5128731	COUPLING									1	1	1	1
	5126826	COUPLING	1	1	1	1	1	1	1	1	8	8	8	8
	9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
		9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL												
	5196739	+ GASKET KIT (INCLUDES NECESSARY GASKETS AND SNAP RINGS FOR ONE COMPLETE OVERHAUL) + NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.	1	1	1	1	1	1	1	1	11	1	1	1
		9.1440 - COUPLING, PROPELLER DRIVE SHAFT												
		GEAR ASSEMBLIES (SEE CHART) COME WITH A 3 1/4" B.C. FLANGE; TO USE A COUPLING WITH 4 1/4" BOLT CIRCLE, FLANGE MUST BE CHANGED (SEE 9.1430).												
1B	5122654	COUPLING, 3 1/4 B.C., 1 BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122655	COUPLING, 3 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122656	COUPLING, 3 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122657	COUPLING, 3 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5123209	COUPLING, 3 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109351	* COUPLING, 3 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
	5145092	BOLT, 3/8"-24X1.12" (3 1/4" COUPLING) (12.5015)	4	4	4	4	4	4	4	4	4	4	4	4

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		4 9 7	4 9 8	4 9 9	5 0 0	5 0 1	5 0 2	5 0 3	5 0 4	5 1 6	5 1 7	5 1 8	5 1 9
9.1440 - COUPLING, PROPELLER DRIVE SHAFT (CONT'D)													
5122430	BOLT, 7/16"-20X1.18" (4 1/4" COUPLING)	4	4	4	4	4	4	4	4	4	4	4	4
103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
103026	NUT, 3/8"-24 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
	* PARTIALLY MACHINED; MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.												
9.1775 - TUBE, OIL PRESSURE GAGE													
IA 5131604	* HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1	1
1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
118753	ELBOW, 1/4" TUBE 90 DEG. STREET (12.9480)	1	1	1	1	1	1	1	1	1	1	1	1
	* UNITS THRU 3D-35664, 4D-36584, 6D-30357, INCLUDE 1-118753 ELBOW.												

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 2 0	5 2 1	5 2 2	5 2 3	5 2 4	5 2 5	5 3 1	5 3 6	5 3 7	5 3 8	5 4 0	5 4 1
9.1001 - GEAR ASSY., HYDRAULIC MARINE														
REFER TO ASSEMBLY BREAKDOWN AS INDICATED.														
1A	5122590	# GEAR ASSY., 2:1, L.H. (PAGE A1) AS3-71A (5106308)	1											
1A	5122591	# GEAR ASSY., 2:1, R.H. (PAGE A1) AS3-71AR (5106309)		1										
1A	5122593	# GEAR ASSY., 2.5:1, R.H. (PAGE A1) AS4-71AR (5106311)			1									
1A	5122594	# GEAR ASSY., 2.5:1, L.H. (PAGE A1) AS4-71A (5106310)				1								
1A	5122595	# GEAR ASSY., 3:1, R.H. (PAGE A1) AS5-71AR (5106313)					1							
1A	5122596	# GEAR ASSY., 3:1, L.H. (PAGE A1) AS5-71A (5106312)						1						
	5129455	# GEAR ASSY., DIRECT, L.H. (PAGE C1) AS1-71BA (5106304)							1			1		
	5129456	# GEAR ASSY., DIRECT, R.H. (PAGE C1) AS1-71BAR (5106305)								1	1			
	5129531	GEAR ASSY., DIRECT, L.H. (PAGE B1) AS1-71C (5106306)											1	
	5129536	# GEAR ASSY., DIRECT, R.H. (PAGE B1) AS1-71CR (5106305)												1
	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1	1
	5134365	STUD (6.1050)	6	6	6	6	6	6	2	2	2	2	2	2
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)							4	4	4	4	4	4
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)							2	2	2	2	2	2
	456939	NUT, 7/16"-20 (12.9120)												
	# NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.													
9.1003 - HOUSING, MARINE GEAR DRIVE														
	5128819	* HOUSING ASSY. (INCLUDES PIN)	1	1	1	1	1	1		1		1		
	5129099	HOUSING ASSY. (INCLUDES PIN)											1	1
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)	2	2	2	2	2	2	2	2		2	2	2
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)	4	4	4	4	4	4	4	4		4	4	4
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	2	2	2	2	2	2	2	2		2	2	2
	103321	LOCKWASHER, 3/8" (12.9200)	4	4	4	4	4	4	4	4		4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	2	2	2	2	2	2	2	2		2	2	2
	* OBSOLETE.													
9.1004 - FLANGE, MARINE GEAR DRIVE														
	5128825	* FLANGE	1	1	1	1	1	1		1		1		
	5126794	FLANGE											1	1
	5119189	CONE (1.3295)	2	2	2	2	2	2	2	2		2	2	2

9.1000A HYDRAULIC MARINE GEAR

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	5 2 0	5 2 1	5 2 2	5 2 3	5 2 4	5 2 5	5 3 1	5 3 6	5 3 7	5 3 8	5 4 0	5 4 1
	9.1004 - FLANGE, MARINE GEAR DRIVE (CONT'D)													
	5180291	RETAINER (WASHER) (1.3290)	1	1	1	1	1	1		1		1	1	1
	271630	BOLT, 3/8"-16X1 1/2" (12.9001) * OBSOLETE.	1	1	1	1	1	1		1		1	1	1
	9.1006 - COUPLING, MARINE GEAR DRIVE													
	5128731	COUPLING	1	1	1	1	1	1	1	1	1	1		
	5129524	COUPLING											1	1
	9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
	9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL													
	5196739	+ GASKET KIT (INCLUDES NECESSARY GASKETS AND SNAP RINGS FOR ONE COMPLETE OVERHAUL) + NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.	1	1	1	1	1	1	1	1	1	1	1	1
	9.1440 - COUPLING, PROPELLER DRIVE SHAFT													
		GEAR ASSEMBLIES (SEE CHART) COME WITH A 3 1/4" B.C. FLANGE; TO USE A COUPLING WITH 4 1/4" BOLT CIRCLE, FLANGE MUST BE CHANGED (SEE 9.1430).												
1B	5122654	COUPLING, 3 1/4" B.C., 1" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122655	COUPLING, 3 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122656	COUPLING, 3 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122657	COUPLING, 3 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5123209	COUPLING, 3 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109351	* COUPLING, 3 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, PLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
	5145092	BOLT, 3/8"-24X1.12" (3 1/4" B.C.) (12.5015)	4	4	4	4	4	4	4	4	4	4	4	4

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 2 0	5 2 1	5 2 2	5 2 3	5 2 4	5 2 5	5 3 1	5 3 6	5 3 7	5 3 8	5 4 0	5 4 1
9.1440 - COUPLING, PROPELLER DRIVE SHAFT (CONT'D)														
	5122430	BOLT, 7/16"-20X1.18" (4 1/4" COUPLING)	4	4	4	4	4	4	4	4	4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
	103026	NUT, 3/8"-24 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
	271506	NUT, 7/16"-20 (12.9120) * PARTIALLY MACHINED. MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.	4	4	4	4	4	4	4	4	4	4	4	4
9.1775 - TUBE, OIL PRESSURE GAGE														
1A	5131604	@ HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1	1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480) @ UNITS PRIOR TO 3D-35665, 4D-36585, 6D-30358, INCLUDE 1-118753 ELBOW.	1	1	1	1	1	1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	5 4 2	5 4 3	5 4 4	5 4 5	5 4 6	5 4 7	5 4 8	5 4 9	5 5 0	5 5 1	5 5 2	5 5 3
9.1001 - GEAR ASSY., HYDRAULIC MARINE														
REFER TO ASSEMBLY BREAKDOWN AS INDICATED.														
A	5129531	# GEAR ASSY., DIRECT, L.H. (PAGE B1)									1			
		AS1-71C (5106304)												
A	5129536	# GEAR ASSY., DIRECT, R.H. (PAGE B1)										1		
		AS1-71CR (5106305)												
A	5129532	# GEAR ASSY., 1.5:1 RED., L.H. (PAGE B1)	1										1	
		AS2-71C (5106306)												
A	5129537	# GEAR ASSY., 1.5:1 RED., R.H. (PAGE B1)		1										1
		AS2-71CR (5106307)												
A	5129533	# GEAR ASSY., 2:1 RED., L.H. (PAGE B1)												
		AS3-71C (5106308)			1									
A	5129538	# GEAR ASSY., 2:1 RED., R.H. (PAGE B1)												
		AS3-71CR (5106309)				1								
A	5129534	# GEAR ASSY., 2.5:1 RED., L.H. (PAGE B1)					1							
		AS4-71C (5106310)												
A	5129539	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE B1)						1						
		AS4-71CR (5106311)												
A	5129535	# GEAR ASSY., 3:1 RED., L.H. (PAGE B1)							1					
		AS5-71C (5106312)												
A	5129540	# GEAR ASSY., 3:1 RED., R.H. (PAGE B1)								1				
		AS5-71CR (5106313)												
	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1	1
	5134365	STUD (6.1050)									2	2	2	2
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)	6	6	6	6	6	6	6	6	4	4	6	6
	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6	6	6
	456939	NUT, 7/16"-20 (12.9120)									2	2		
		# NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.												
9.1003 - HOUSING, MARINE GEAR DRIVE														
	5129099	HOUSING ASSY. (INCLUDES PIN)	1	1	1	1	1	1	1	1				
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)	2	2	2	2	2	2	2	2				
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)	4	4	4	4	4	4	4	4				
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)	2	2	2	2	2	2	2	2				
	103321	LOCKWASHER, 3/8" (12.9200)	4	4	4	4	4	4	4	4				
	103322	LOCKWASHER, 7/16" (12.9200)	2	2	2	2	2	2	2	2				
9.1004 - FLANGE, MARINE GEAR DRIVE														
	5126794	+ FLANGE	1	1	1	1	1	1	1	1				
	5119189	CONE (1.3295)	2	2	2	2	2	2	2	2				
	5180291	RETAINER (WASHER) (1.3290)	1	1	1	1	1	1	1	1				
	271630	BOLT, 3/8"-16X1 1/2" (12.9001)	1	1	1	1	1	1	1	1				
		+ OBSOLETE.												

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	5 4 2	5 4 3	5 4 4	5 4 5	5 4 6	5 4 7	5 4 8	5 4 9	5 5 0	5 5 1	5 5 2	5 5 3
9.1006 - COUPLING, MARINE GEAR DRIVE														
5129524	COUPLING	1	1	1	1	1	1	1	1	1	1	1	1	1
9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8	8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL														
5196739	+ GASKET KIT (INCLUDES NECESSARY GASKETS AND SNAP RINGS FOR ONE COMPLETE OVERHAUL)	1	1	1	1	1	1	1	1	1	1	1	1	1
	+ NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.													
9.1440 - COUPLING, PROPELLER DRIVE SHAFT														
GEAR ASSEMBLIES (SEE CHART) COME WITH A 3 1/4" B.C. FLANGE; TO USE A COUPLING WITH 4 1/4" BOLT CIRCLE, FLANGE MUST BE CHANGED (SEE 9.1430).														
1B	5122654	COUPLING, 3 1/4" B.C., 1" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122655	COUPLING, 3 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122656	COUPLING, 3 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122657	COUPLING, 3 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5123209	COUPLING, 3 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109351	@ COUPLING, 3 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109352	@ COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
	5145092	BOLT, 3/8"-24X1.12" (3 1/4" B.C. COUPLING)	4	4	4	4	4	4	4	4	4	4	4	4
	5122430	BOLT, 7/16"-20X1.18" (4 1/4" COUPLING)	4	4	4	4	4	4	4	4	4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
	103026	NUT, 3/8"-24 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
	@ PARTIALLY MACHINED, MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.													

9.1000A HYDRAULIC MARINE GEAR

TYPES

FIG	PART NUMBER	NAME AND DESCRIPTION	5 4 2	5 4 3	5 4 4	5 4 5	5 4 6	5 4 7	5 4 8	5 4 9	5 5 0	5 5 1	5 5 2	5 5 3
		9.1775 - TUBE, OIL PRESSURE GAGE												
1A	5131604	* HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1	1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480)	1	1	1	1	1	1	1	1	1	1	1	1
		* UNITS PRIOR TO 3D-35665, 4D-36585, 6D-30358, INCLUDE 1-118753 ELBOW.												

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 5 4	5 5 5	5 5 6	5 5 7	5 5 8	5 5 9	5 6 6	5 6 7	5 6 9	5 7 1	5 7 4	5 7 6
9.1001 - GEAR ASSY., HYDRAULIC MARINE														
REFER TO ASSEMBLY BREAKDOWN AS INDICATED.														
A	5129533	# GEAR ASSY., 2:1 RED., L.H. (PAGE B1) AS3-71C (5106308)	1											
A	5129538	# GEAR ASSY., 2:1 RED., R.H. (PAGE B1) AS3-71CR (5106309)		1										
A	5129534	# GEAR ASSY., 2.5:1 RED., L.H. (PAGE B1) AS4-71C (5106310)			1									
A	5129539	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE B1) AS4-71CR (5106311)				1								
A	5129535	# GEAR ASSY., 3:1 RED., L.H. (PAGE B1) AS5-71C (5106312)					1							
A	5129540	# GEAR ASSY., 3:1 RED., R.H. (PAGE B1) AS5-71CR (5106313)						1						
B	5108252	# GEAR ASSY., 2:1 RED., L.H. (PAGE E1) AS13-72 (5106320)							1				1	
B	5108257	# GEAR ASSY., 2:1 RED., R.H. (PAGE E1) AS13-72R (5106321)								1				
B	5108250	# GEAR ASSY., DIRECT, L.H. (PAGE E1) AS11-72 (5106314)									1			
B	5108255	# GEAR ASSY., DIRECT, R.H. (PAGE E1) AS11-72R (5106315)										1		
A	5108258	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE E1) AS14-72R (5106323)												1
	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1	1
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)	6	6	6	6	6	6	6	6	6	6	6	6
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)	6	6	6	6	6	6	6	6	6	6	6	6
	103322	LOCKWASHER, 7/16" (12.9200) # NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.	6	6	6	6	6	6	6	6	6	6	6	6
9.1006 - COUPLING, MARINE GEAR DRIVE														
	5129524	COUPLING	1	1	1	1	1	1						
	5126826	COUPLING							1	1	1	1		
	5128731	COUPLING											1	1
	9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL														
	5196739	+ GASKET KIT (INCLUDES NECESSARY GASKET & SNAP RINGS FOR ONE COMPLETE OVERHAUL) + NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

9.1000A HYDRAULIC MARINE GEAR

			TYPES											
PART			5	5	5	5	5	5	5	5	5	5	5	5
.FIG . . . NUMBER NAME AND DESCRIPTION			4	5	6	7	8	9	6	7	9	1	4	6
9.1440 - COUPLING, PROPELLER DRIVE SHAFT														
SOME GEAR ASSEMBLIES (SEE CHART)														
COME WITH A 3 1/4" B.C. FLANGE; TO														
USE A COUPLING WITH 4 1/4" BOLT														
CIRCLE, FLANGE MUST BE CHANGED (SEE														
9.1430).														
1B	5122654	COUPLING, 3 1/4" B.C., 1" BORE, SOLID												
		TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122655	COUPLING, 3 1/4" B.C., 1 1/8" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122656	COUPLING, 3 1/4" B.C., 1 1/4" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5122657	COUPLING, 3 1/4" B.C., 1 3/8" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5123209	COUPLING, 3 1/4" B.C., 1 1/2" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID												
		TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5108403	COUPLING, 4 1/4" B.C., 1 1/4" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE,												
		SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109351	* COUPLING, 3 1/4" B.C., 1" TO 1 1/2"												
		BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109350	* COUPLING, 4 1/4" B.C., 1" TO 1 1/2"												
		BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2												
		1/4" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
	5145092	BOLT, 3/8"-24X1.12" (3 1/4" COUPLING)												
		(12.5015)	4	4	4	4	4	4	4	4	4	4	4	4
	5122430	BOLT, 7/16"-20X1.18" (4 1/4"												
		COUPLING)	4	4	4	4	4	4	4	4	4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
	103026	NUT, 3/8"-24 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
* PARTIALLY MACHINED, MUST BE														
BORED TO SHAFT DIAMETER AND														
FINISH MACHINED; KEY, CLAMPING														
BOLTS AND DRIVE PIN FURNISHED BY														
CUSTOMER.														

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 4	5 5 5	5 6	5 5 7	5 5 8	5 5 9	5 6 6	5 6 7	5 6 9	5 7 1	5 7 4	5 7 6
9.1775 - TUBE, OIL PRESSURE GAGE														
IA	5131604	* HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1	1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480) * UNITS PRIOR TO 3D-35665, 4D-36585, 6D-30358, INCLUDE 1-118753 ELBOW.	1	1	1	1	1	1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	577	578	579	580	581	582	583	584	585	586	587	588
9.1001 - GEAR ASSY., HYDRAULIC MARINE														
REFER TO ASSEMBLY BREAKDOWN AS INDICATED.														
1A	5108254	# GEAR ASSY., 3:1 RED., L.H. (PAGE E1) AS15-72 (5106324)	1											
1A	5108253	# GEAR ASSY., 2.5:1 RED., L.H. (PAGE E1) AS14-72 (5106322)		1										1
1A	5108257	# GEAR ASSY., 2:1 RED., R.H. (PAGE E1) AS13-72R (5106321)			1									
1A	5108259	# GEAR ASSY., 3:1 RED., R.H. (PAGE E1) AS15-72R (5106325)				1								
1A	5129547	# GEAR ASSY., 2:1 RED., L.H. (PAGE F1) AS13-72C (5106320)					1							
1A	5129548	# GEAR ASSY., 2.5:1 RED., L.H. (PAGE F1) AS14-72C (5106321)						1						
1A	5129549	# GEAR ASSY., 3:1 RED., L.H. (PAGE F1) AS15-72C (5106324)							1					
1A	5129552	# GEAR ASSY., 2:1 RED., R.H. (PAGE F1) AS13-72CR (5106321)								1				
1A	5129553	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE F1) AS14-72CR (5106323)									1			
1A	5129554	# GEAR ASSY., 3:1 RED., R.H. (PAGE F1) AS15-72CR (5106325)										1		
1B	5108251	# GEAR ASSY., 1.5:1 RED., L.H. (PAGE E1) AS12-72 (5106316)											1	
	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1	1
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)	6	6	6	6	6	6	6	6	6	6	6	6
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)	6	6	6	6	6	6	6	6	6	6	6	6
	103322	LOCKWASHER, 7/16" (12.9200) # NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.	6	6	6	6	6	6	6	6	6	6	6	6
9.1006 - COUPLING, MARINE GEAR DRIVE														
	5129524	COUPLING					1	1	1	1	1	1	1	1
	5126826	COUPLING											1	1
	5128731	COUPLING	1	1	1	1								
	9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL														
	5196739	+ GASKET KIT (INCLUDES NECESSARY GASKET & SNAP RINGS FOR ONE COMPLETE OVERHAUL) + NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 7 7	5 7 8	5 7 9	5 8 0	5 8 1	5 8 2	5 8 3	5 8 4	5 8 5	5 8 6	5 8 7	5 8 8
9.1440 - COUPLING, PROPELLER DRIVE SHAFT														
SOME GEAR ASSEMBLIES (SEE CHART) COME WITH A 3 1/4" B.C. FLANGE; TO USE A COUPLING WITH 4 1/4" BOLT CIRCLE, FLANGE MUST BE CHANGED (SEE 9.1430).														
B	5122654	COUPLING, 3 1/4"B.C., 1" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5122655	COUPLING, 3 1/4"B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5122656	COUPLING, 3 1/4"B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5122657	COUPLING, 3 1/4"B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5123209	COUPLING, 3 1/4"B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5128342	COUPLING, 4 1/4"B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5128343	COUPLING, 4 1/4"B.C., 2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5128344	COUPLING, 4 1/4"B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5108402	COUPLING, 4 1/4"B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5108403	COUPLING, 4 1/4"B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5108404	COUPLING, 4 1/4"B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
B	5108273	COUPLING, 4 1/4"B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
3	5109351	* COUPLING, 3 1/4"B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
3	5109350	* COUPLING, 4 1/4"B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
3	5109352	* COUPLING, 4 1/4"B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
	5145092	BOLT, 3/8"-24X1.12" (3 1/4" COUPLING) (12.5015)	4	4	4	4	4	4	4	4	4	4	4	4
	5122430	BOLT, 7/16"-20X1.18" (4 1/4" COUPLING)	4	4	4	4	4	4	4	4	4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
	103026	NUT, 3/8"-24 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
		* PARTIALLY MACHINED, MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.												

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	577	578	579	580	581	582	583	584	585	586	587	588
9.1775 - TUBE, OIL PRESSURE GAGE														
1A	5131604	* HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1	1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480) * UNITS PRIOR TO 3D-35665, 4D-36585, 6D-30358, INCLUDE 1-118753 ELBOW.	1	1	1	1	1	1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 8 9	5 9 0	5 9 1	5 9 2	5 9 3	5 9 4	5 9 5	5 9 6	5 9 7	5 9 8	5 9 9	6 0 0
9.1001 - GEAR ASSY., HYDRAULIC MARINE														
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.														
B	5108254	# GEAR ASSY., 3:1 RED., L.H. (PAGE E1) AS15-72 (5106324)		1										
B	5108256	# GEAR ASSY., 1.5:1 RED., R.H. (PAGE E1) AS12-72R (5106317)			1									
B	5108258	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE E1) AS14-72R (5106323)				1								
B	5108259	# GEAR ASSY., 3:1 RED., R.H. (PAGE E1) AS15-72R (5106325)					1							
	5129545	# GEAR ASSY., DIRECT, L.H. (PAGE F1) AS11-72C (5106314)						1						
B	5129546	# GEAR ASSY., 1.5:1 RED., L.H. (PAGE F1) AS12-72C (5106316)							1					
B	5129547	# GEAR ASSY., 2:1 RED., L.H. (PAGE F1) AS13-72C (5106320)								1				
B	5129548	# GEAR ASSY., 2.5:1 RED., L.H. (PAGE F1) AS14-72C (5106322)									1			
B	5129549	# GEAR ASSY., 3:1 RED., L.H. (PAGE F1) AS15-72C (5106324)										1		
	5129550	# GEAR ASSY., DIRECT, R.H. (PAGE F1) AS11-72CR (5106315)											1	
B	5129551	# GEAR ASSY., 1.5:1 RED., R.H. (PAGE F1) AS12-72CR (5106317)												1
B	5129552	# GEAR ASSY., 2:1 RED., R.H. (PAGE F1) AS13-72CR (5106321)												
	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1	1
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)	6	6	6	6	6	6	6	6	6	6	6	6
	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6	6	6
		# NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.												
9.1006 - COUPLING, MARINE GEAR DRIVE														
	5126826	COUPLING	1	1	1	1								
	5129638	COUPLING					1	1	1	1	1	1	1	1
	9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8	8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL														
	5196739	% GASKET KIT (INCLUDES NECESSARY GASKETS & SNAP RINGS FOR ONE COMPLETE OVERHAUL)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		% NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.												

9.1000A HYDRAULIC MARINE GEAR

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	5 8 9	5 9 0	5 9 1	5 9 2	5 9 3	5 9 4	5 9 5	5 9 6	5 9 7	5 9 8	5 9 9	6 0 0
9.1440 - COUPLING, PROPELLER DRIVE SHAFT														
1B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5108403	COUPLING, 4 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109350	* COUPLING, 4 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
1B	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1	1
	5122430	BOLT, 1.18"L.	4	4	4	4	4	4	4	4	4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4
		* PARTIALLY MACHINED, MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.												
9.1775 - TUBE, OIL PRESSURE GAGE														
1A	5131604	@ HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1	1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480) @ UNIT THRU 3D-35664, 4D-36584, 6D-30357 INCLUDE 1-118753 ELBOW, TO INSURE INTERCHANGEABILITY.	1	1	1	1	1	1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES										
IG	NUMBER	NAME AND DESCRIPTION										
		6 0 1	6 0 2	6 1 5	6 2 1	6 2 7	6 3 4	6 3 5	6 3 8	6 4 9	6 5 6	6 5 7
9.1001 - GEAR ASSY., HYDRAULIC MARINE												
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.												
5129545	# GEAR ASSY., DIRECT, L.H. (PAGE F1) AS11-72C (5106314)										1	
5129546	# GEAR ASSY., 1.5:1 RED., L.H. (PAGE F1) AS12-72C (5106316)									1		
5129550	# GEAR ASSY., DIRECT, R.H. (PAGE F1) AS11-72CR (5106315)											1
5129551	# GEAR ASSY., 1.5:1 RED., R.H. (PAGE F1) AS12-72CR (5106317)								1			
5129553	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE F1) AS14-72CR (5106323)	1										
5129554	# GEAR ASSY., 3:1 RED., R.H. (PAGE F1) AS15-72CR (5106325)		1									
5108251	# GEAR ASSY., 1.5:1 RED., L.H. (PAGE E1) AS12-72 (5106316)			1								
5162730	# GEAR ASSY., 1.9:1 RED., R.H. (PAGE G1) AS17-72CR (5106319)				1							
5130522	# GEAR ASSY., 1.9:1 RED., L.H. (PAGE C1) AS17-72C (5106318)					1						
5108250	# GEAR ASSY., DIRECT, L.H. (PAGE E1) AS11-72 (5106314)						1					
5108255	# GEAR ASSY., DIRECT, R.H. (PAGE E1) AS11-72R (5106315)							1				
5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1
5134365	STUD (6.1020)						2	2			2	2
179871	BOLT, 7/16"-14X3 1/4" (12.9001)						4	4	6	6	4	4
179872	BOLT, 7/16"-14X3 1/2" (12.9001)	6	6	6								
103322	LOCKWASHER, 7/16" (12.9200)	6	6	6			6	6	6	6	6	6
456939	NUT, 7/16"-20 (12.9120)						2	2			2	2
# NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.												
9.1006 - COUPLING, MARINE GEAR DRIVE												
5129638	COUPLING	1	1		1	1						
5128731	COUPLING			1			1	1				
5129524	COUPLING								1	1	1	1
9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8	8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL												
5196739	+ GASKET KIT (INCLUDES NECESSARY GASKETS & SNAP RINGS FOR ONE COMPLETE OVERHAUL)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
+ NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.												

9.1000A HYDRAULIC MARINE GEAR

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	6 0 1	6 0 2	6 1 5	6 2 1	6 2 7	6 3 4	6 3 5	6 3 8	6 4 9	6 5 6	6 5 7		
9.1440 - COUPLING, PROPELLER DRIVE SHAFT															
1B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1		
1B	5108403	COUPLING, 4 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1		
1B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1		
1B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1		
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1		
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1		
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1	1	1	1	1	1	1		
1B	5109350	* COUPLING, 4 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1		
	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1	1	1	1	1	1	1	1	1		
	5122430	BOLT, 1.18"L	4	4	4	4	4	4	4	4	4	4	4		
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4		
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4		
* PARTIALLY MACHINED, MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.															
9.1775 - TUBE, OIL PRESSURE GAGE															
1A	5131604	@ HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1	1	1	1	1	1	1		
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1		
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1		
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480) @ UNIT THRU 3D-35664, 4D-36584, 6D-30357 INCLUDE 1-118753 ELBOW, TO INSURE INTERCHANGEABILITY.	1	1	1	1	1	1	1	1	1	1	1		

9.1000A HYDRAULIC MARINE GEAR

PART FIG . . . NUMBER NAME AND DESCRIPTION		TYPES											
		6 6 2	6 6 3	6 6 4	6 6 6	6 6 7	6 6 9	6 7 0	6 7 2	6 7 4	6 7 5	6 7 6	6 7 9
9.1001 - GEAR ASSY., HYDRAULIC MARINE													
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.													
A	5134100	# GEAR ASSY., 2.5:1 RED., L.H. (PAGE C1) AS14-71C (5106310)	1										
A	5134073	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE C1) AS14-71CR (5106311)		1									
A	5133892	# GEAR ASSY., 3:1 RED., L.H. (PAGE G1) AS15-72C (5106324)			1	1							
A	5133890	# GEAR ASSY., 2.5:1 RED., L.H. (PAGE G1) AS14-72C (5106322)					1						1
A	5134385	* GEAR ASSY., 2:1 RED. (TWIN DISC #30756) MG-506 (PAGE K1)						1					
A	5134384	* GEAR ASSY., 1.47:1 RED. (TWIN DISC #30742) MG-506 (PAGE K1)							1				
A	5133893	# GEAR ASSY., 3:1 RED., R.H. (PAGE G1) AS15-72CR (5106325)								1		1	
A	5134074	# GEAR ASSY., 3:1 RED., R.H. (PAGE C1) AS15-71CR (5106313)									1		
A	5133891	# GEAR ASSY., 2.5:1 RED., R.H. (PAGE G1) AS14-72CR (5106323)											1
	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1	1	1	1	1	1	1	1	1
	186628	BOLT, 3/8"-16X1 1/2" (12.9001)						8	8				
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)	6	6	6					6	6		6
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)				6	6					6	6
	103321	LOCKWASHER, 3/8" (12.9200)						20	20				
	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6			6	6	6	6
* INCLUDES PROPELLER FLANGE AND REAR MOUNTS.													
# NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.													
9.1006 - COUPLING, MARINE GEAR DRIVE													
	5129524	COUPLING	1	1	1					1	1		1
	5129638	COUPLING				1	1					1	
	9409011	BOLT, 5/16"-18X3/4" (12.9001)	8	8	8	8	8			8	8	8	8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL													
	5196739	% GASKET KIT (INCLUDES NECESSARY GASKETS & SNAP RINGS FOR ONE COMPLETE OVERHAUL)	AR	AR	AR	AR	AR			AR	AR	AR	AR
% NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.													
9.1440 - COUPLING, PROPELLER DRIVE SHAFT													
B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1			1	1	1	1
B	5108403	COUPLING, 4 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1	1	1			1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 6 2	6 6 3	6 6 4	6 6 6	6 6 7	6 6 9	6 7 0	6 7 2	6 7 4	6 7 5	6 7 6	6 7 9
9.1440 - COUPLING, PROPELLER DRIVE SHAFT (CONT'D)														
1B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1			1	1	1	1	1
1B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1			1	1	1	1	1
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1	1	1			1	1	1	1	1
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1	1	1			1	1	1	1	1
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1	1	1			1	1	1	1	1
1B	5109350	* COUPLING, 4 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1	1	1			1	1	1	1	1
1B	5109352	COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1	1	1			1	1	1	1	1
	5122430	BOLT, 1.18"L.	4	4	4	4	4			4	4	4	4	4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4			4	4	4	4	4
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4			4	4	4	4	4
	* PARTIALLY MACHINED, MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.													
9.1775 - TUBE, OIL PRESSURE GAGE														
1A	5131604	@ HOSE, 1/2" I.D. X 15 21/32" L. FLEX. (12.4065)	1	1	1	1	1			1	1	1	1	1
1A	5109271	TUBE, 3/16" I.D. X 13 3/4" L. FLEX. (12.4065)						1	1					
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480)	1	1	1	1	1	1	1	1	1	1	1	1
	@ UNITS THRU 3D-35664, 4D-36584, 6D-30357, INCLUDE 1-118753 ELBOW.													

9.1000A HYDRAULIC MARINE GEAR

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	6 8 0	6 8 1	6 8 2	6 9 0	6 9 7	6 9 8	7 0 0	7 0 8	7 2 1	7 2 2	7 2 6	7 3 0
9.1001 - GEAR ASSY., HYDRAULIC MARINE														
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.														
A	5134100	= GEAR ASSY., 2.5:1 RED., L.H. (PAGE C1) AS14-71C (5106310)												1
A	5133891	= GEAR ASSY., 2.5:1 RED., R.H. (PAGE G1) AS14-72CR (5106323)	1											
A	5134073	= GEAR ASSY., 2.5:1 RED., R.H. (PAGE C1) AS14-71CR(5106311)		1										
A	5134101	= GEAR ASSY., 3:1 RED., L.H. (PAGE C1) AS15-71C (5106312)			1									
A	5136127	@ GEAR ASSY., 1.93:1 RED. (TWIN DISC #31144) MG-506 (PAGE J1)				1								
A	5133893	= GEAR ASSY., 3:1 RED., R.H. (PAGE G1) AS15-72CR (5106325)					1							
A	5136126	# GEAR ASSY., 1.47:1 RED. (TWIN DISC #31143) MG-506 (PAGE J1)						1						
A	5137157	@ GEAR ASSY., 1.93:1 RED. (TWIN DISC #31392) MG-506 (PAGE J1)							1					
A	5136570	+ GEAR ASSY., 2.91:1 RED. (TWIN DISC #31142) MG-506 (PAGE J1)								1				
A	5129546	= GEAR ASSY., 1.5:1 RED., L.H. (PAGE F1) AS12-72R (5106316)									1			
A	5129551	= GEAR ASSY., 1.5:1 RED., R.H. (PAGE F1) AS12-72CR (5106317)										1		
A	5136432	% GEAR ASSY., 2.42:1 RED. (TWIN DISC #31832) MG-506 (PAGE J1)											1	
	5170507	DECAL, ROTATION INDICATING ARROW	1	1			1				1	1		1
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)				12		12	12	12			12	
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)				8		8	8	8			8	
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)			6						6	6		6
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)				6								
	103321	LOCKWASHER, 3/8" (12.9200)			20		20	20	20				20	
	103322	LOCKWASHER, 7/16" (12.9200)			6		6				6	6		6
		% NOT SERVICED, SUPERSEDED BY 5147538 R.H. OR 5147539 L.H. ROTATION.												
		# NOT SERVICED, SUPERSEDED BY 5147534 R.H. OR 5147535 L.H. ROTATION.												
		+ NOT SERVICED, SUPERSEDED BY 5148446 R.H. OR 5148445 L.H. ROTATION.												
		@ NOT SERVICED, SUPERSEDED BY 5147536 R.H. OR 5147537 L.H. ROTATION.												
		= NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.												
9.1003 - HOUSING, MARINE GEAR DRIVE														
	5129099	HOUSING ASSY. (INCLUDES PIN) (9.1007)		1							1	1		1
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)		2										

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 8 0	6 8 1	6 8 2	6 9 0	6 9 7	6 9 8	7 0 0	7 0 8	7 2 1	7 2 2	7 2 6	7 3 0
9.1003 - HOUSING, MARINE GEAR DRIVE (CONT'D)														
186283		BOLT, 3/8"-16X3 1/2" (12.9001)		4										
193221		BOLT, 7/16"-14X1 1/4" (12.9001)		2							2	2		2
103321		LOCKWASHER, 3/8" (12.9200)		4										
103322		LOCKWASHER, 7/16" (12.9200)		2							2	2		2
9.1004 - FLANGE, MARINE GEAR DRIVE														
5126794	+	FLANGE		1							1	1		1
5119189		CONE (1.3295)		2							2	2		2
5180291		RETAINER (WASHER) (1.3290)		1							1	1		1
271630		BOLT, 3/8"-16X1 1/2" (12.9001)		1							1	1		1
		+ OBSOLETE.												
9.1006 - COUPLING, MARINE GEAR DRIVE														
5129524		COUPLING	1	1	1									
5129638		COUPLING					1				1	1		1
9409011		BOLT, 5/16"-18X3/4" (12.9001)	8	8	8		8				8	8		8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL														
5196739		GASKET KIT (INCLUDES NECESSARY GASKETS & SNAP RINGS FOR ONE COMPLETE OVERHAUL)	AR	AR	AR									
		NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.												
9.1440 - COUPLING, PROPELLER DRIVE SHAFT														
1B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1									
1B	5108403	COUPLING, 4 1/4" B.C., 1 1/4" BORE, SOLID TYPE	1	1	1									
1B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1									
1B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1									
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1									
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE	1	1	1									
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1									
1B	5109350	* COUPLING, 4 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE	1	1	1									

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 8 0	6 8 1	6 8 2	6 9 0	6 9 7	6 9 8	7 0 0	7 0 8	7 2 1	7 2 2	7 2 6	7 3 0
9.1440 - COUPLING, PROPELLER DRIVE SHAFT (CONT'D)														
3	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE	1	1	1									
	5122430	BOLT, 1.18"L.	4	4	4							4		
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4							4		
	271506	NUT, 7/16"-20 (12.9120)	4	4	4							4		
* PARTIALLY MACHINED, MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS AND DRIVE PIN FURNISHED BY CUSTOMER.														
9.1775 - TUBE, OIL PRESSURE GAGE														
A	5131604	@ HOSE, 1/2" I.D.X15 21/32" L. FLEX. (12.4065)	1	1	1						1	1		1
	5135177	HOSE, 3/16" I.D.X98" L. (7.4075)					1							
A	5109271	TUBE, 3/16" I.D.X13 3/4" L. FLEX. (12.4065)				1		1	1	1				1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1	1	1
	118748	CONNECTOR, 1/4" FL. TUBE, 1/8" P.T. (12.9380)					1							
	120401	ELBOW, 1/8" STREET 90 DEG. (12.9590)					1							
	118753	ELBOW, 1/4" TUBE - 90 DEG. (12.9480) @ UNITS THRU 3D-35664, 4D-36584, 6D-30357, INCLUDE 1-118753 ELBOW.	1	1	1	1		1	1	1	1	1	1	

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 6 9	7 7 0	7 7 1	7 7 2	7 8 3	7 8 4	7 9 0	7 9 1	7 9 2	7 9 3	7 9 4	8 0 2	
9.1001 - GEAR ASSY., HYDRAULIC MARINE															
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED.															
3A	5143834	? *% GEAR ASSY., 2.42:1 RED. (TWIN DISC #32222) MG-506 (PAGE J1)	1												
3A	5143835	? *+ GEAR ASSY., 2.90:1 RED. (TWIN DISC #32411) MG-506 (PAGE J1)		1											
	5129550	= GEAR ASSY., DIRECT DRIVE (PAGE F1) AS11-72CR (5106315)			1										
	5129545	= GEAR ASSY., DIRECT DRIVE (PAGE F1) AS11-72C (5106314)				1									
1B	5144706	GEAR ASSY., 3:1 RED., R.H. (PAGE H1) W-AS5-73C					1								
1B	5144705	GEAR ASSY., 3:1 RED., L.H. (PAGE H1) W-AS5-73CR						1							
3A	5144971	? @& GEAR ASSY., 1.93:1 RED. (MG 506) (TWIN DISC #32025) (PAGEJ1)							1						
3A	5144972	? @% GEAR ASSY., 2.42:1 RED. (MG 506) (TWIN DISC #32027) (PAGEJ1)								1					
3A	5144973	? @+ GEAR ASSY., 2.90:1 RED. (MG 506) (TWIN DISC #32029) (PAGEJ1)									1				
3A	5144970	? @# GEAR ASSY., 1.47:1 RED. (MG 506) (TWIN DISC #32023) (PAGEK1)										1			
1A	5129546	= GEAR ASSY., 1.5:1 RED., L.H. (PAGE F1) M-AS12-72C (5106316)											1		
1A	5129551	= GEAR ASSY., 1.5:1 RED., R.H. (PAGE F1) MG-506 (5106317)												1	
	5170507	DECAL, ROTATION INDICATING ARROW			1	1	1	1					1	1	
	5134365	STUD, 7/16"X3 3/4" (6.1050)			2	2									
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)	12	12					12	12	12	12			
	186612	BOLT, 3/8"-16X1 3/8" (12.9001)	8	8					8	8	8	8			
	179871	BOLT, 7/16"-14X3 1/4" (12.9001)			6	6							6	6	
	454938	BOLT, 7/16"-14X3 3/4" (12.9001)					6	6							
	103321	LOCKWASHER, 3/8" (12.9200)	20	20					20	20	20	20			
	103322	LOCKWASHER, 7/16" (12.9200)			6	6	6	6					6	6	
	456939	NUT, 7/16"-20 (12.9120)			2	2									
* INCLUDES PROPELLER, FLANGE AND REAR MOUNTS.															
@ REFER TO 11.1000A TYPE 582 FOR REVERSE GEAR MOUNTING BRACKETS AND COUPLING WHICH ARE NOT PART OF GEAR ASSEMBLIES.															
& NOT SERVICED SUPERSEDED BY 5147536 (TWIN DISC #33875) MG 506 R.H. OR 5147537 (TWIN DISC #33872) MG 506 L.H. ROTATION.															
% NOT SERVICED SUPERSEDED BY 5147538 (TWIN DISC #33876) MG 506 R.H. OR 5147539 (TWIN DISC #33873) MG 506 L.H. ROTATION.															
+ NOT SERVICED SUPERSEDED BY 5148446 (TWIN DISC #34208) MG 506 R.H. OR 5148445 (TWIN DISC #34209) MG 506 L.H. ROTATION.															
= NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES.															

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	7 6 9	7 7 0	7 7 1	7 7 2	7 8 3	7 8 4	7 9 0	7 9 1	7 9 2	7 9 3	7 9 4	8 0 2
		9.1001 - GEAR ASSY., HYDRAULIC MARINE (CONT'D)												
		# NOT SERVICED SUPERSEDED BY 5147534 (TWIN DISC #33874) MG 506 R.H. OR 5147535 (TWIN DISC #33871) MG 506 L.H. ROTATION. ? PROCURE ASSY. OR COMPONENTS THRU TWIN DISC INC., 1328 RACINE ST., RACINE, WISC. 53403 OR NEAREST OUTLET. FURNISH TWIN DISC NUMBER.												
		9.1003 - HOUSING, MARINE GEAR DRIVE												
	5129099	ADAPTOR ASSY. (INCLUDES PIN) (9.1007)			1	1								
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)			2	2								
	186283	BOLT, 3/8"-16X3 1/2" (12.9001)			4	4								
	193221	BOLT, 7/16"-14X1 1/4" (12.9001)			2	2								
	103322	LOCKWASHER, 7/16" (12.9200)			2	2								
		9.1004 - FLANGE, MARINE GEAR DRIVE												
	5126794	+ FLANGE (9.1430)			1	1								
	5119189	CONE (1.3295)			2	2								
	5180291	RETAINER (WASHER) (1.3290)			1	1								
	271630	BOLT, 3/4"-16X1 1/2" (12.9001) + OBSOLETE.			1	1								
		9.1006 - COUPLING, MARINE GEAR DRIVE												
	5129638	COUPLING			1	1	1	1						
	5129524	COUPLING											1	1
	9409011	BOLT, 5/16"-18X3/4" (12.9117)			8	8	8	8					8	8
		9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL												
	5196739	% GASKET KIT (MODEL 71,72)			AR	AR							AR	AR
	5149036	GASKET KIT (MODEL 73) NOT SERVICED, FOR SERVICE USE 5149636 AND 5149638.					AR	AR						
		9.1440 - COUPLING, PROPELLER DRIVE SHAFT												
1B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE, SOLID TYPE			1	1	1	1					1	1
1B	5108403	COUPLING, 4 1/4" B.C., 1 1/4" BORE, SOLID TYPE			1	1	1	1					1	1
1B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE, SOLID TYPE			1	1	1	1					1	1

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	7 6 9	7 7 0	7 7 1	7 7 2	7 8 3	7 8 4	7 9 0	7 9 1	7 9 2	7 9 3	7 9 4	8 0 2
9.1440 - COUPLING, PROPELLER DRIVE SHAFT (CONT'D)														
1B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE, SOLID TYPE			1	1	1	1					1	1
1B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE			1	1	1	1					1	1
1B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE			1	1	1	1					1	1
1B	5128344	COUPLING, 4 1/4" B.C., 2 1/4" BORE, SOLID TYPE			1	1	1	1					1	1
1B	5109350	* COUPLING, 4 1/4" B.C., 1" TO 1 1/2" ROUGH BORE, SPLIT TYPE			1	1	1	1					1	1
1B	5109352	* COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE			1	1	1	1					1	1
	5122430	BOLT, 7/16"-20X1 1/8" (9.1430)			4	4	4	4					4	4
	103322	LOCKWASHER, 7/16" (12.9200)			4	4	4	4					4	4
	271506	NUT, 7/16"-20 (12.9120)			4	4	4	4					4	4
		* PARTIALLY MACHINED; MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS, AND DRIVE PIN FURNISHED BY CUSTOMER.												
9.1775 - TUBE, OIL PRESSURE GAGE														
	5109271	TUBE, 3/16" I.D. X 13 3/4" L., FLEX. (12.4065)	1	1					1	1	1	1		
	5135177	HOSE, 3/16" I.D. X 98" L. (7.4075)					1	1						
	5131604	HOSE, 1/2" I.D. X 15 21/32" L. (12.4065)				1	1							
	5144634	HOSE ASSY., #4X15 3/4" L. (TEFLON) (4.4340)											1	1
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1		1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1			1	1	1	1	1	1
	120401	ELBOW, 1/8" STREET 90 DEG. (12.9590)	1	1			1	1	1	1	1	1		
	9409931	ELBOW, 1/8"-27 STREET 90 DEG. (12.9590)											1	1
	118753	ELBOW, 1/4" TUBE 90 DEG. (12.9480)	1	1	1	1	1	1						
	443762	EXTENSION TUBE (12.9540)						1						

9.1000A HYDRAULIC MARINE GEAR

		TYPES									
PART		8	8	8	8	8	8	8	8	8	8
FIG . . . NUMBER NAME AND DESCRIPTION		3	3	3	3	4	4	4	4	4	4
		6	7	8	9	0	1	4	5	6	7
9.1001 - GEAR ASSY., HYDRAULIC MARINE											
SEE ASSEMBLY BREAKDOWN PAGES AS INDICATED.											
1A	5147536	?	GEAR ASSY., 1.97:1 RED. (MG 506)								
			(TWIN DISC #33875) (R.H.ROTATION)	1							
1A	5147534	?	GEAR ASSY., 1.50:1 RED. (MG 506)								
			(TWIN DISC #33874) (R.H.ROTATION)		1						
1A	5147537	?	GEAR ASSY., 1.97:1 RED. (MG 506)								
			(TWIN DISC #33872) (L.H.ROTATION)			1					
1A	5147538	?	GEAR ASSY., 2.50:1 RED. (MG 506)								
			(TWIN DISC #33876) (R.H.ROTATION)				1				
1A	5147535	?	GEAR ASSY., 1.50:1 RED. (MG 506)								
			(TWIN DISC #33871) (L.H.ROTATION)				1				
1A	5147539	?	GEAR ASSY., 2.50:1 RED. (MG 506)								
			(TWIN DISC #33873) (L.H.ROTATION)					1			
1B	5148453		GEAR ASSY., DIRECT DRIVE, C.W. (PAGE								
			H1) WARNER AS1-73C					1			
1B	5148427		GEAR ASSY., 1.5:1 RED. (PAGE H1)								
			W-AS2-73C (R.H. ROTATION)						1		
1B	5141129		GEAR ASSY., 2:1 RED. (W-AS7-73C)								
			ROTATION CHANGES) (PAGE H1)							1	
1B	5144706		GEAR ASSY., 3:1 RED. (PAGE H1)								
			W-AS5-73C R.H. ROTATION								1
B	5148454		GEAR ASSY., DIRECT DRIVE L.H.								
			ROTATION W-AS1-73CR (PAGE H1)								1
	5170507		DECAL, ROTATION INDICATING ARROW					1	1	1	1
	186679		BOLT, 3/8"-16X1 1/4" (12.9001)	12	12	12	12	12	12		
	186612		BOLT, 3/8"-16X1 3/8" (12.9001)	8	8	8	8	8	8		
	454939		BOLT, 7/16"-14X4" (12.9001)						6	6	6
	103321		LOCKWASHER, 3/8" (12.9200)	20	20	20	20	20	20		
	103322		LOCKWASHER, 7/16" (12.9200)						6	6	6
		?	PROCURE ASSY. OR COMPONENTS								
			THRU TWIN DISC INC. 1328 RACINE								
			ST. RACINE, WISC. 53403 OR								
			NEAREST OUTLET. FURNISH TWIN								
			DISC NO.								
9.1006 - COUPLING, MARINE GEAR DRIVE											
	5129638		COUPLING					1	1	1	1
	9409011		BOLT, 5/16"-18X3/4" (12.9117)					8	8	8	8
9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL											
	5149036		GASKET KIT (MODEL 73)					AR	AR	AR	AR
9.1440 - COUPLING, PROPELLER DRIVE SHAFT											
B	5141240		COUPLING, 4 3/4" B.C., 1 3/4" BORE,								
			SOLID TYPE					1	1	1	1
B	5141306		COUPLING, 4 3/4" B.C., 2 1/4" BORE,								
			SOLID TYPE					1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION										
		8 3 6	8 3 7	8 3 8	8 3 9	8 4 0	8 4 1	8 4 4	8 4 5	8 4 6	8 4 7	8 4 8
	9.1440	COUPLING, PROPELLER DRIVE SHAFT (CONT'D)										
1B	5148513	* COUPLING, 4 3/4" B.C., 1 1/2" TO 2 1/4" ROUGH BORE, SPLIT TYPE										
	443615	BOLT, 1/2"-20X2" (12.9001)										
	103323	LOCKWASHER, 1/2" (12.9200)										
	103028	NUT, 1/2"-20 (12.9120)										
		* PARTIALLY MACHINED; MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS, AND DRIVE PIN FURNISHED BY CUSTOMER.										
	9.1775	TUBE, OIL PRESSURE GAGE										
	5109271	TUBE, 3/16" I.D. X 13 3/4" L, FLEX. (12.4065)										
	5131604	HOSE, FLEX. 1/2 I.D. X 15 21/32 L. (12.4065)										
	1508350	FITTING, 1/8" RESTRICTED (7.4074)										
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)										
	120401	ELBOW, 1/8" STREET 90 DEG. (12.9590)										
	118753	ELBOW, 1/4" TUBE 90 DEG. (12.9480)										

9.1000A HYDRAULIC MARINE GEAR

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	849	850	851	926	950	951	952	953	954	955	956	957	958
		9.1001 - GEAR ASSY., HYDRAULIC MARINE													
		SEE ASSEMBLY BREAKDOWN AS INDICATED.													
B	5148428	GEAR ASSY., 1.5:1 (PAGE H1) L.H. ROTATION (W-AS2-73CR)	1												
B	5141130	GEAR ASSY., 2:1 RED., C.W.-CHANGES ROTATION) (PAGE H1)W-AS7-73CR		1											
B	5144705	GEAR ASSY., 3:1 RED. (PAGE H1) W-AS5-73CR			1										
	NPN	GEAR ASSY. (CUSTOMER FURNISHED)				1									
	5106304	GEAR ASSY. (DIRECT DRIVE) (PAGE A1)					1								
	5106305	GEAR ASSY. (DIRECT DRIVE) (PAGE A1)						1							
A	5106306	GEAR ASSY., 1.5:1 RED. (PAGE A1)							1						
A	5106307	GEAR ASSY., 1.5:1 RED. (PAGE A1)								1					
A	5106308	GEAR ASSY., 2.1:1 RED. (PAGE B1)									1				
A	5106309	GEAR ASSY., 2.1:1 RED. (PAGE B1)										1			
A	5106310	GEAR ASSY., 2.6:1 RED. (PAGE B1)											1		
A	5106311	GEAR ASSY., 2.6:1 RED. (PAGE B1)												1	
A	5106312	GEAR ASSY., 2.9:1 RED. (PAGE K1)													1
A	5106316	GEAR ASSY., 1.5:1 RED. (PAGE K1)													
	5134365	STUD, 7/16" X 3 3/4" (6.1020)					2	2							
	5170507	DECAL, ROTATION INDICATING ARROW	1	1	1		1	1	1	1	1	1	1	1	1
	179871	BOLT, 7/16"-14 X 3 1/4" (12.9001)					4	4	6	6	6	6	6	6	6
	454939	BOLT, 7/16"-14X4" (12.9001)	6	6	6										
	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6		6	6	6	6	6	6	6	6	6
	456939	NUT, 7/16"-20 (12.9120)					2	2							
		9.1006 - COUPLING, MARINE GEAR DRIVE													
	5129638	COUPLING	1	1	1	1									
	5129524	COUPLING					1	1	1	1	1	1	1	1	1
	9409011	BOLT, 5/16"-18 X 3/4" (12.9117)	8	8	8	8	8	8	8	8	8	8	8	8	8
		9.1017 - GASKET KIT, HYDRAULIC MARINE GEAR OVERHAUL													
	5149036	GASKET KIT (MODEL 73)	1	1	1										
		9.1430 - FLANGE, PROPELLER DRIVE													
	5196745	FLANGE					1	1					1		1
		9.1440 - COUPLING, PROPELLER DRIVE SHAFT													
B	5141240	COUPLING, 4 3/4" B.C., 1 3/4" BORE, SOLID TYPE	1	1	1										
B	5141306	COUPLING, 4 3/4" B.C., 2 1/4" BORE, SOLID TYPE	1	1	1										
B	5148513	* COUPLING, 4 3/4" B.C., 1 1/2" TO 2 1/4" ROUGH BORE, SPLIT TYPE	1	1	1										
B	5107335	COUPLING, 4 1/4" B.C., 1" SOLID TYPE						1	1	1	1				
B	5109350	COUPLING, 4 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE						1	1	1	1	1	1	1	1
B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE											1		1
B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE											1		1
B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE, SOLID TYPE											1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART			TYPES															
FIG	NUMBER	NAME AND DESCRIPTION	849	850	851	926	950	951	952	953	954	955	956	957	958	959		
9.1440 - COUPLING, PROPELLER DRIVE SHAFT (CONT'D)																		
1B	5109351	COUPLING, 3.25" B.C., 1" TO 1.50" BORE, SPLIT TYPE					1	1										
1B	5109352	COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE				1		1					1	1	1	1		
1B	5122654	COUPLING, 3 1/4" B.C., 1" BORE, SOLID TYPE					1	1										
1B	5122656	COUPLING, 3 1/4" B.C., 1 1/4" BORE, SOLID TYPE					1	1										
1B	5122657	COUPLING, 3 1/4" B.C., 1 3/8" BORE, SOLID TYPE					1	1										
1B	5123209	COUPLING, 3 1/4" B.C., 1 1/2" BORE, SOLID TYPE					1	1										
1B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE, SOLID TYPE											1	1		1		
1B	5108403	COUPLING, 4 1/4" B.C., 1 1/4" BORE, SOLID TYPE							1	1	1	1						
1B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE, SOLID TYPE							1	1	1	1	1	1		1		
	5145092	BOLT, 3/8"-24X1.20" (12.5015)					4	4										
	5122430	BOLT, 7/16"-20 X 1 1/8" (9.1430)	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	443615	BOLT, 1/2"-20X2" (12.9001)	6	6	6													
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	103323	LOCKWASHER, 1/2" (12.9200)	6	6	6													
	103026	NUT, 3/8"-24 (12.9120)					4	4										
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	103028	NUT, 1/2"-20 (12.9120)	6	6	6													
* PARTIALLY MACHINED; MUST BE BORED TO SHAFT DIAMETER AND FINISH MACHINED; KEY, CLAMPING BOLTS, AND DRIVE PIN FURNISHED BY CUSTOMER.																		
9.1775 - TUBE, OIL PRESSURE GAGE																		
	5131604	HOSE, 1/2" I.D.X15 21/32" L. (12.4065)	1	1	1		1	1	1	1	1	1	1	1	1	1		
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1		1	1	1	1	1	1	1	1	1	1		
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1		1	1	1	1	1	1	1	1	1	1		
	118753	ELBOW, 1/4" TUBE 90 DEG. (12.9480)	1	1	1		1	1	1	1	1	1	1	1	1	1		

9.1000A HYDRAULIC MARINE GEAR

			TYPES									
FIG	PART NUMBER	NAME AND DESCRIPTION	9 6 0	9 6 1	9 6 2	9 6 3	9 6 4	9 6 5	9 6 6	9 6 7	9 7 3	9 8 0
	9.1001 - GEAR ASSY., HYDRAULIC MARINE											
A	5106316	GEAR ASSY., 1.5:1 RED. (PAGE K1)	1									
A	5106317	GEAR ASSY., 1.5:1 RED. (PAGE K1)		1	1							
A	5106320	GEAR ASSY., 2.1:1 RED. (PAGE K1)				1						
A	5106321	GEAR ASSY., 2.1:1 RED. (PAGE K1)					1					
A	5106322	GEAR ASSY., 2.6:1 RED. (PAGE K1)						1				
A	5106324	GEAR ASSY., 2.9:1 RED. (PAGE K1)							1			
A	5106325	GEAR ASSY., 2.9:1 RED. (PAGE C1)								1		
A	5106323	GEAR ASSY., 2.6:1 RED. (PAGE K1)									1	
A	5106313	GEAR ASSY., 2.9:1 RED. (PAGE K1)										1
	5170507	DECAL	1	1	1	1	1	1	1	1	1	1
	179871	BOLT, 7/16"-14 X 3 1/4" (12.9001)	6	6	6	6	6	6	6	6	6	6
	103322	LOCKWASHER, 7/16" (12.9200)	6	6	6	6	6	6	6	6	6	6
	9.1006 - COUPLING, MARINE GEAR DRIVE											
	5129524	COUPLING	1	1	1	1	1	1	1	1	1	1
	9409011	BOLT, 5/16"-18 X 3/4" (12.9001)	8	8	8	8	8	8	8	8	8	8
	9.1430 - FLANGE, PROPELLER DRIVE											
	5196745	FLANGE				1		1				
	9.1440 - COUPLING PROPELLER DRIVE SHAFT											
B	5109352	COUPLING, 4 1/4" B.C., 1 1/2" TO 2 1/4" BORE, SPLIT TYPE		1	1	1	1	1	1	1		1
B	5108273	COUPLING, 4 1/4" B.C., 1 1/2" BORE, SOLID TYPE	1	1	1	1	1	1	1	1		
B	5108402	COUPLING, 4 1/4" B.C., 1 1/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1		1
B	5108404	COUPLING, 4 1/4" B.C., 1 3/8" BORE, SOLID TYPE	1	1	1	1	1	1	1	1		
B	5109350	COUPLING, 4 1/4" B.C., 1" TO 1 1/2" BORE, SPLIT TYPE		1	1	1	1	1	1	1		
B	5128342	COUPLING, 4 1/4" B.C., 1 3/4" BORE, SOLID TYPE				1						
B	5128343	COUPLING, 4 1/4" B.C., 2" BORE, SOLID TYPE				1		1	1			
B	5122654	COUPLING, 3 1/4" B.C., 1" BORE, SOLID TYPE										1
B	5122656	COUPLING, 3 1/4" B.C., 1 1/4" BORE, SOLID TYPE										1
B	5122657	COUPLING, 3 1/4" B.C., 1 3/8" BORE, SOLID TYPE										1
	5145092	BOLT, 3/8"-24X1.20" (12.5015)										4
	5122430	BOLT, 7/16"-20 X 1 1/8" (9.1430)	4	4	4	4	4	4	4	4		4
	103322	LOCKWASHER, 7/16" (12.9200)	4	4	4	4	4	4	4	4		4
	103026	NUT, 3/8"-24 (12.9120)										4
	271506	NUT, 7/16"-20 (12.9120)	4	4	4	4	4	4	4	4		4
	9.1775 - TUBE, OIL PRESSURE GAGE											
	5144634	HOSE ASSY., #4X15 3/4" (4.4340)	1		1							
	5131604	HOSE ASSY., 1/2" I.D.X15 21/32" L. (12.4065)		1		1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES									
			9 6 0	9 6 1	9 6 2	9 6 3	9 6 4	9 6 5	9 6 6	9 6 7	9 7 3	9 8 0
		9.1775 - TUBE, OIL PRESSURE GAGE (CONT'D)										
	1508350	FITTING, 1/8" RESTRICTED (7.4074)	1	1	1	1	1	1	1	1	1	1
	119932	BUSHING, 3/8" X 1/8" RED. PIPE (12.9570)	1	1	1	1	1	1	1	1	1	1
	9409931	ELBOW, 90 DEG. 1/8" STREET (12.9590)	1		1							
	118753	ELBOW, 1/4" TUBE 90 DEG. (12.9480)		1		1	1	1	1	1	1	1

9.1000A HYDRAULIC MARINE GEAR

PART		TYPES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
FIG	NUMBER	NAME AND DESCRIPTION				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 ASSY., HYDRAULIC MARINE																
	5122586	* GEAR ASSY. (DIRECT DRIVE, L.H.)	1													
	5122587	* GEAR ASSY. (DIRECT DRIVE, R.H.)		1												
1A	5122588	* GEAR ASSY. (1.5:1 RED., L.H.)			1											
1A	5122589	* GEAR ASSY. (1.5:1 RED., R.H.)				1										
1A	5122590	* GEAR ASSY. (2:1 RED., L.H.)					1									
1A	5122591	* GEAR ASSY. (2:1 RED., R.H.)						1								
1A	5122593	* GEAR ASSY. (2.5:1 RED., R.H.)							1							
1A	5122594	* GEAR ASSY. (2.5:1 RED., L.H.)								1						
1A	5122595	* GEAR ASSY. (3:1 RED., R.H.)									1					
1A	5122596	* GEAR ASSY. (3:1 RED., L.H.)										1				
	5106304	GEAR ASSY. (DIRECT DRIVE, R.H.)											1			
	5106305	GEAR ASSY. (DIRECT DRIVE, L.H.)												1		
1A	5106306	GEAR ASSY. (1.5:1 RED, R.H.)													1	
1A	5106307	GEAR ASSY. (1.5:1 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	5198322	ADAPTOR ASSY.											1	1	1	1
2A	455724	BEARING (NEEDLE)	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	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	4
9.1008 - GASKET, MARINE GEAR HOUSING ADAPTOR																
2A	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.																
2A	5196232	* HOUSING ASSY. (DIRECT DRIVE)	1	1												
2A	5196235	@ # HOUSING ASSY. (REDUCTION DRIVE)			1	1	1	1	1	1	1	1				
2A	5196728	& % HOUSING ASSY. (2:1 RED.)			1	1	1	1	1	1	1	1				
	NPN	HOUSING ASSY. (WARNER #10-17-065-006)												1	1	
2A	5149807	HOUSING ASSY.													1	1
	5149803	NAMEPLATE												1		
	5149806	NAMEPLATE													1	
	5149691	NAMEPLATE														1
	5149692	NAMEPLATE														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				
2A	190073	SCREW, DRIVE #2X3/16"											2	2	2	2
2A	5198461	PLUG (.338" DIA. CUP)							1	1	1	1				
* NOT SERVICED; REPLACE WITH 1-5198093 HOUSING ASSY., 2-5196730 PLATE, 3-3712718 DOWEL PINS, 1-5196895 STRAINER, 1-5196907 BUSHING, 1-5196894 BAFFLE, 1-5149100 DIPSTICK & 1-5149061 ADAPTOR. @ PRIOR TO GEAR SERIAL NO. 4693 ON 2:1 RATIOS.																

[illegible]

NOT SERVICED; REPLACE WITH
1-5198094 HOUSING ASSY.,
1-5149100 DIPSTICK, 1-51409061
ADAPTOR, 2-5196730 PLATE &
3-3712718 DOWEL PIN.

[illegible]

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
		9.1010 - HOUSING, MARINE GEAR (CONT'D)														
		& EFF. WITH GEAR SERIAL NO. 4693 ON 2:1 RATIOS.														
		% NOT SERVICED; REPLACE WITH 1-5198094 HOUSING ASSY., 1-5149100 DIPSTICK & 1-5149061 ADAPTOR.														
		9.1026 - SHAFT, MARINE GEAR INPUT														
2A	5196192	* SHAFT	1	1	1	1	1	1	1	1	1	1				
2A	5198244	SHAFT ASSY.											1	1	1	1
		* OBSOLETE.														
		9.1027 - BEARING, MARINE GEAR INPUT SHAFT														
2A	5149670	BEARING											1	1	1	1
2A	9413342	BEARING	1	1	1	1	1	1	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	5196303	PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2A	5196185	* PLATE (SPLINED)	2	2	2	2	2	2	2	2	2	2				
2A	5196730	@ PLATE (SPLINED)					2	2								
2A	5149757	PLATE											2	2	2	2
		* PRIOR TO GEAR SERIAL NO. 4693 ON 2:1 RATIOS.														
		@ EFFECTIVE WITH GEAR SERIAL NO. 4693 ON 2:1 RATIOS.														
		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	5196187	* PIN (9/16"L.)	3	3	3	3	3	3	3	3	3	3				
2A	3712718	@ PIN (.623"L.)					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
		9.1060 - PLATE, REVERSE CLUTCH REACTION (CONT'D)													
		* PRIOR TO GEAR SERIAL NO. 4693 ON 2:1 RATIOS.													
		@ EFFECTIVE WITH GEAR SERIAL NO. 4693 ON 2:1 RATIOS.													
		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 AND 3:1 RED.)							1	1	1	1			
2A	5149804	GEAR ASSY. (DIRECT DRIVE)											1	1	
2A	5149816	GEAR ASSY. (1.5:1 RED.)													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
2A	5196213	WASHER (2 5/8" O.D.) (1.5 AND 2:1)			1	1	1	1							
2A	5149762	WASHER													1
		9.1087 - BEARING, MARINE GEAR PLANETARY GEAR													
2B	5199063	BEARING (1.5:1 RED.) (GROOVED)				1	1								1
2D	5197342	BEARING (2.5:1 AND 3:1 RED.) (9.1350)							1	1	1	1			
	5199829	BUSHING	2	2	3	3	2	2	2	2	2	2	2	2	2
2B	5196254	RING, SNAP (2 1/16" DIA.)			1	1									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	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
		9.1093 - SHAFT, OUTPUT AND BUSHING ASSEMBLY													
	5149805	SHAFT											1	1	
	5149819	SHAFT													1
		9.1097 - BEARING, OUTPUT SHAFT													
1B	5149679	CUP, BEARING													1
1B	5149677	CUP, BEARING													1
1B	5149678	CONE, BEARING													1
		9.1135 - VALVE ASSY., SELECTOR													
		INCLUDES ITEMS IN 9.1137 THRU 9.1160													
A	5196217	VALVE ASSY.	1	1	1	1	1	1	1	1	1	1			
A	5149763	VALVE ASSY.											1	1	1

DETROIT DIESEL

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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
9.1137 - 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