Use With: OM--04402 MR--05244



# PRIME-AIRE SERIES PUMP MODEL PA6C60-4045D-ESP

MANUAL PART 2 of 3

PARTS
LIST
WITH
PERFORMANCE CURVE

THE GORMAN-RUPP COMPANY ● MANSFIELD, OHIO

GORMAN-RUPP OF CANADA LIMITED ● ST. THOMAS, ONTARIO, CANADA

Printed in U.S.A.

## **WARNING!**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

PA SERIES PUMP PL--05489

#### PERFORMANCE CURVE - SECTION A

### RECORDING MODEL AND SERIAL NUMBERS

Please record the pump model and serial number in the spaces provided below and in the separate <u>Installation/Operation Manual</u> accompanying your pump. Your Gorman-Rupp distributor needs this information when you require parts or service.

Pump Model:	
Serial Number:	

#### WARRANTY INFORMATION

The pump warranty is provided as part of Gorman-Rupp's support program for customers who operate and maintain their equipment as described in this manual and other accompanying literature. Please note that should the equipment be abused or modified to change its performance beyond the original factory specifications, the warranty will become void and any claim will be denied.

#### PERFORMANCE CURVE

The performance curve on the following page is based on 70° F (21° C) clear water at sea level, with minimum suction lift. Since pump installations are seldom identical, your performance may be different due to such factors as viscosity, specific gravity, elevation, temperature, and impeller trim.

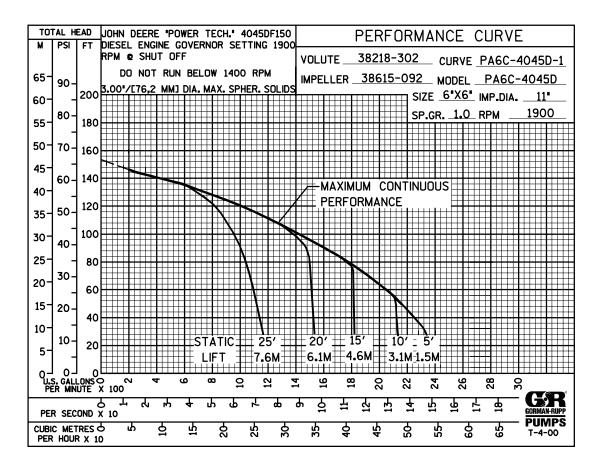
If your pump serial number is followed by an "N", your pump is **NOT** a standard production model. Contact the Gorman-Rupp Company to verify performance or part numbers.



Pump speed and operating condition points must be within the continuous performance range shown on the curve.

PART LIST MANUAL PAGE A -- 1

PL--05489 PA SERIES PUMP



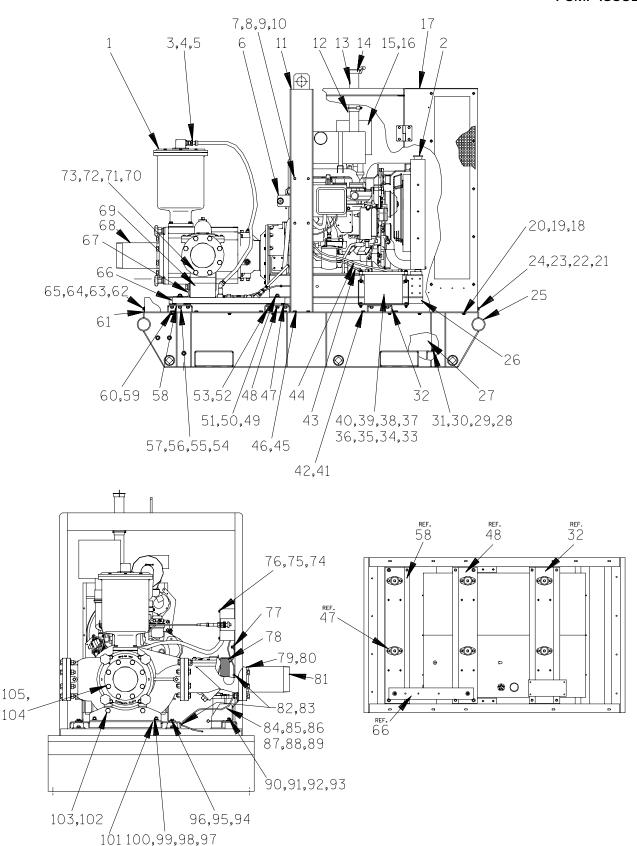
Performance Curve - Model PA6C60-4045D-ESP

PAGE A -- 2 PARTS LIST MANUAL

PA SERIES PUMP PL--05489

This Page Intentionally Blank

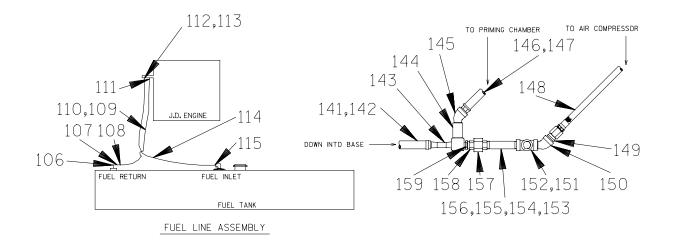
PART LIST MANUAL PAGE A -- 3

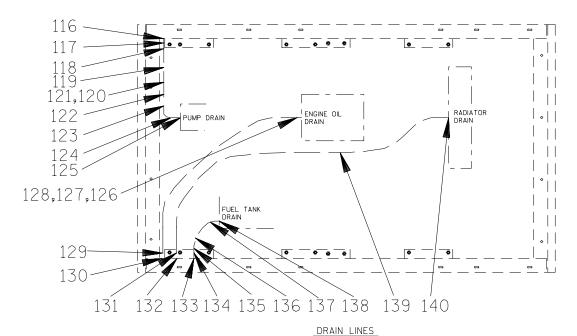


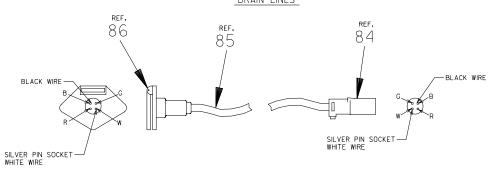
#### PARTS LIST Pump Model PA6C60-4045D-ESP

If your pump serial number is followed by an "N", your pump is **NOT** a standard production model. Contact the Gorman-Rupp Company to verify part numbers.

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	PUMP END ASSEMBLY	46133-967		1	54	STUD MOUNT	24631-011		2
2	JOHN DEERE 4045D	29224-128		1	55	LOCK WASHER	J08	15991	4
3	REDUCER BUSHING	AP1608	11999		56	FLAT WASHER	K08	15991	2
4	CONNECTOR	S1598		1	57	HEX NUT	D08	15991	4
5	HOSE BARB FTG	26523-047		1	58	CROSS RAIL ASSY	41581 – 028	24150	1
6	MOUNTING BRACKET	34621 – 293	13000		59	HEX HD CAPSCREW	B0805	15991	4
7	HEX HD CAPSCREW	B0605	15991	4	60	LOCK WASHER	J08	15991	4
8	LOCK WASHER	J06	15991		61	FOAM TAPE	18668-003		23.2'
9	FLAT WASHER	K06	15991	4	62	HEX HD CAPSCREW	B0504	15991	3
10	HEX NUT	D06	15991	4	63	FLAT WASHER	K05	15991	3
11	HOISTING BAIL ASSY	44713-036	24150		64	LOCK WASHER	J05	15991	3
12	MUFFLER CLAMP	S1980		1	65	MOUNTING ASSEMBLY	41881 – 788		1
13	EXHAUST EXTENSION	31615-036	15210		66	CROSS RAIL	34414-098	15080	1
14	WEATHER CAP	S1710		1	67	PUMP SUPPORT	34265-040	15080	1
15	EXHAUST SILENCER	29334-128		1	68	PIPE NIPPLE	T9648	15070	1
16	EXHAUST BLANKET	29334-293		1	69	C.V. SUPPORT	34561-009	15080	1
17	ENCLOSURE ASSY	42164-008		1	70	HEX HD CAPSCREW	B1214	15991	8
18	HEX HD CAPSCREW	B0505	15991	20	71	LOCK WASHER	K12	15991	8
19	FLAT WASHER	K05	15991	20	72	FLAT WASHER	J12	15991	2
20	LOCK WASHER	J05	15991	20	73	HEX NUT	D12	15991	8
21	HEX HD CAPSCREW	B0504	15991	5	74	HEX HD CAPSCREW	B0403	15991	4
22	FLAT WASHER	K05	15991	5	75	FLAT WASHER	K04	15991	4
23	LOCK WASHER	J05	15991	5	76	LOCK WASHER	J04	15991	4
24	MOUNTING ASSEMBLY	41881 – 789		1	77	BRACKET	34184-007	15120	1
25	BASE ASSEMBLY	41565 – 587	24150		78	FLOAT SWITCH KIT	48312-980		1
26	BASE FRAME	41437-064	24150		79	FLANGE	1758	10010	2
27	FUEL TANK ASSY	46711-092	24150		80	FLANGE GASKET	25113-036		2
28	FLAT WASHER	K07	15991	6	81	PIPE NIPPLE	T9648	15070	1
29	LOCK WASHER	J06	15991		82	CABLE TIE MTG BLOCK	27111 – 352		2
30	HEX NUT	D06	15991	6	83	CABLE TIE	27111-332		2
31	FOAM TAPE	18668-003		14.01′	84	PLUG CONNECTION	27261 – 301		1
32	CROSS RAIL ASSY	41581-026	24150		85	CABLE SJD	18134 – 273		6.68′
33	HEX HD CAPSCREW	B0612	15991		86	SOCKET CONNECTOR	27263 – 001		1
34	FLAT WASHER	K06	15991	2	87	HEX HD CAPSCREW	B0404	15991	2
35	FLANGED HEX NUT	21765 – 314		2	88	LOCK WASHER	J04	15991	2
36	BATTERY FRAME	8355B	24000			FLAT WASHER	K04		2
37	12V BATTERY	SEE OPTION		1	89 90		B0806	15991	2
38	BATTERY BOX	34751-006	15120		90	HEX HD CAPSCREW		15991	2
39	HEX HD CAPSCREW	B0604	15991	4		LOCK WASHER	K08	15991	2
40	FLANGED HEX NUT	21765 – 314		4	92	FLAT WASHER	J08	15991	
41	HEX HD CAPSCREW	B0805	15991	4	93	HEX NUT	D08	15991	2
42	LOCK WASHER	J08	15991	4	94	HEX HD CAPSCREW	B0804	15991	6
43	POS BATTERY CABLE	47311 – 111		1	95	LOCK WASHER	J08	15991	6
44	NEG BATTERY CABLE	47311 – 189		1	96	FLAT WASHER	K08	15991	6
45	HEX HD CAPSCREW	B0805	15991		97	HEX HD CAPSCREW	B0806	15991	2
46	LOCK WASHER	J08	15991	4	98	LOCK WASHER	J08	15991	2
47	COMPRESSION MOUNT	24631 – 104		6	99	FLAT WASHER	K08	15991	2
48	CROSS RAIL ASSY	41581-027	24150		100	HEX NUT	D08	15991	2
49	HEX NUT	D08	15991		101	SHIM SET	48261 – 045		4
50	LOCK WASHER	J08	15991		102	HEX HD CAPSCREW	B1206	15991	2
51	FLAT WASHER	K08	15991		103	LOCK WASHER	J12	15991	2
52	HEX HD CAPSCREW	B0805	15991		104	HEX HD CAPSCREW	B1209	15991	8
53	LOCK WASHER	J08	15991	4	105	LOCK WASHER	J12	15991	8



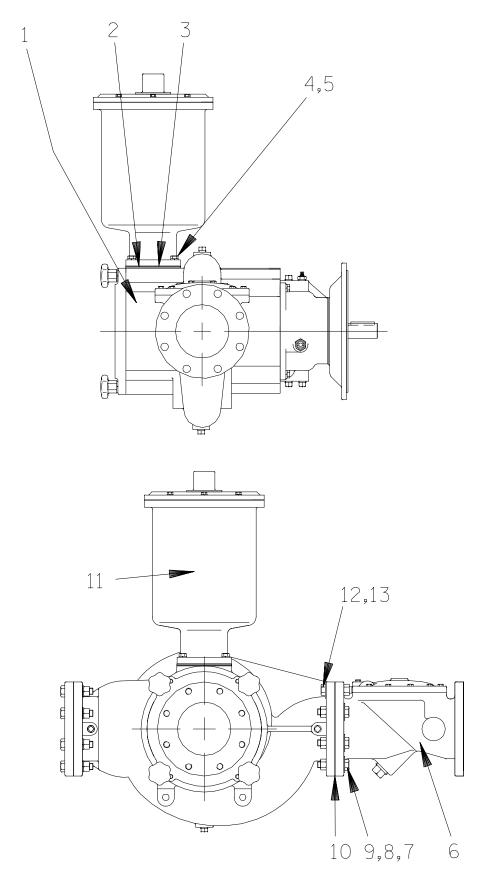




#### PARTS LIST Pump Model PA6C60-4045D-ESP

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
106	STREET ELBOW	RS06	11999	1	146	MALE HOSE END	26525-020		1
107	REDUCER BUSHING	AP0604	15079	1	147	HOSE	18513-113		4.68'
108	HOSE BARB FITTING	26523 – 386		1	148	HOSE ASSY	46341 – 422		1
109	HOSE	18513 – 301		4.59'	149	MALE ADAPTOR	26351-065		2
110	HOSE CLAMP	26518-641		2	150	STREET ELBOW	AGS08	11999	1
111	HOSE BARB FITTING	26523 – 386		1	151	1/2 TEE	U08	11999	1
112	CONNECTOR	S1447		1	152	PRESS RELIEF VALVE	26662-028		1
113	HOSE END	26523-015		1	153	BRACKET ASSY	41881 – 706	24150	1
114	HOSE	18513-054		3.59'	154	HEX HD CAPSCREW	B0805	15991	1
115	HOSE BARB MALE	26523 – 333		1	155	LOCK WASHER	J08	15991	1
116	BUSHING	AP2016	17040	1	156	FLAT WASHER	K08	15991	1
117	HOSE FITTING	26523 – 394		1	157	HEX NUT	D08	15991	1
118	HOSE CLAMP	26518-666		2	158	PIPE UNION	AH08	11999	1
119	HOSE	18513-045		2.18′	159	REDUCER BUSHING	AP0806	15079	1
120	HOSE FITTING	26523 – 394		1					
121	BALL VALVE	26631 – 025	45070	1	NOT S	HOWN:			
122	PIPE NIPPLE	T16	15079	1		WARNING DECAL	38816-319		2
123	90° ELBOW	R16	15079	1		PUMP DRAIN LABEL	38816-320		1
124	PIPE NIPPLE	T1608	15079	1		FUEL TANK DRAIN LABEL	38816-321		1
125	BUSHING	AP2016	17040	1		RADIATOR DRAIN LABEL	38816-322		1
126	HOSE BARB FITTING	26523 – 456		1		OIL DRAIN LABEL	38816-323		1
127	HOSE CLAMP	26518 – 641		1		LEVEL CONTROL LABEL	38816-332		1
128 129	HOSE HOSE CLAMP	18513-056 26518-641		5.59′ 1		WARNING DECAL	38816-330		2
130	HOSE CLAIVIP	26523 – 456		1		WARNING DECAL	38816-218		2
131	HOSE CLAMP	26518-641		1		ENG START-UP TAG	38816-269		1
132	HOSE CLAIVIP	26523 – 335		1		INSTRUCTION TAG	38817-009		1
133	PIPE NIPPLE	T08	15079	1		WARNING DECAL	2613FE		2
134	BALL VALVE	26631-023		1		CAUTION DECAL	2613FJ		1
135	HOSE BARB FITTING	26523 – 456		1		SUCTION STICKER	6588AG		1
136	HOSE	18513-056		2.01′		DISCHARGE STICKER	6588BJ		1
137	HOSE CLAMP	26518-641		2		DECAL KIT	48154-805		1
138	HOSE BARB FITTING	26523 – 456		1		-SILENT PUMP			
139	HOSE	18513-054		8.59′		LUBE DECAL	11421A		2
140	HOSE CLAMP	26518-641		1		WARNING DECAL	38816-203		2
141	HOSE	18513 – 115		2.01′		BATTERY TAG	38818-506		1
142	HOSE CLAMP	26518-666		1		STRAINER	7823A	24000	1
143	VENTURI	26817-002		1					
144	PIPE COUPLING	AE08	15079	1	OPTIC	NS:			
145	STREET ELBOW	AGS08	11999	1	1	12V BATTERY	29331-515		1

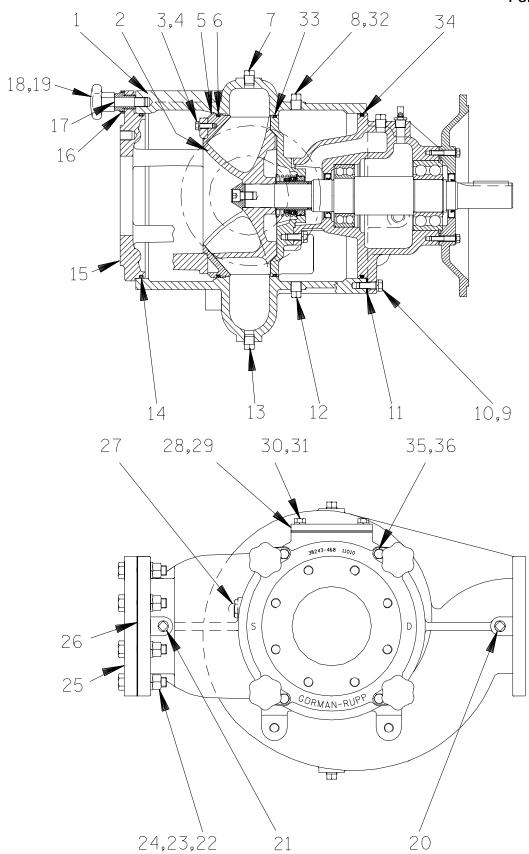
<sup>\*</sup> INDICATES PARTS RECOMMENDED FOR STOCK



## PARTS LIST PA6C60-(SAE 4/10) Pump Assembly

ITEM NO.		PART NAME	PART NUMBER	MAT'L CODE	QTY
1		PUMP END ASSY	66F60-(SAE4/10)		1
2		BAFFLE	31113-011	17000	1
3	*	PRIMING CHAMBER GSKT		19060	1
	^		38687 – 053		1
4		HEX HD CAPSCREW	B0806	15991	4
5		LOCKWASHER	J08	15991	4
6		CHECK VALVE ASSY	26642-126		1
		-FLAPPER	26688-001		1
		-COVER GASKET	26688-002		1
7		HEX HD CAPSCREW	B1213	15991	6
8		LOCKWASHER	J12	15991	6
9		HEX NUT	D12	15991	6
10	*	CASING GASKET	25113-036		1
11		PRIMING CHAMBER ASSY	46112-704		1
12		HEX HD CAPSCREW	B1212	15991	2
13		HEX NUT	D12	15991	2

<sup>\*</sup> INDICATES PARTS RECOMMENDED FOR STOCK



THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO

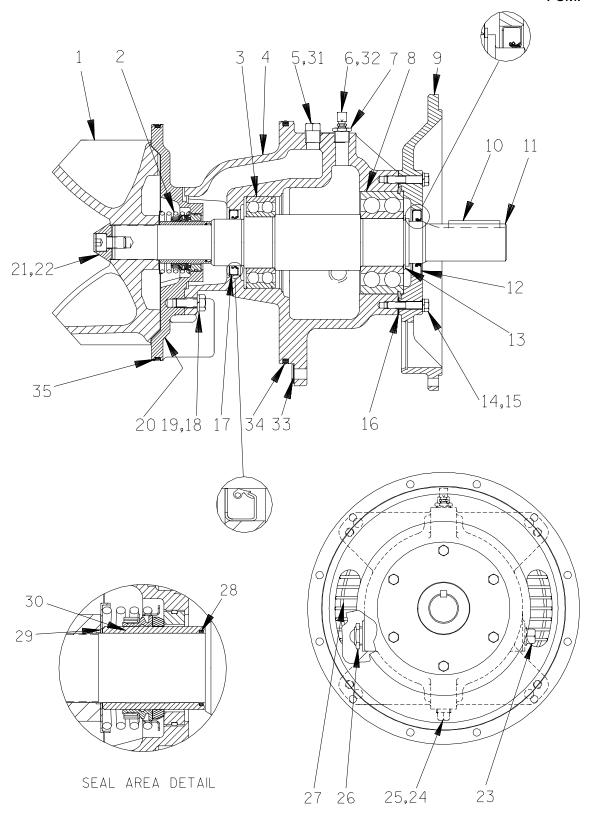
PARTS LIST 66F60-(SAE4/10) Pump End Assembly

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY		MAT′L CODE	QTY
1	PUMP CASING	38218-303	11010	1	25 BLIND FLANGE ASSY 42111-349		1
2	REPAIR ROTATING ASSY	44163 – 253		1	26 * FLANGE GASKET 25113-036		1
3	HEX HD CAPSCREW	B0604 1/2	17000	4	27 SIGHT GAUGE S1471		1
4	LOCKWASHER	J06	17090	4	28 COVER PLATE 33541 – 045	15080	1
5 <del>*</del>	WEAR RING	38691-864	11010	1	29 * CVR PLATE GASKET 38687-053	19060	1
6 <del>*</del>	WEAR RING O-RING	25152-453		1	30 HEX HD CAPSCREW B0805	15991	4
7	PIPE PLUG	P08	15079	1	31 LOCKWASHER J08	15991	4
8	VENTED PLUG	4823A	15079	1	32 SHIPPING PLUG 11495B	15079	1
9	HEX HD CAPSCREW	B0806	15991	4	33 * SEAL PLATE O-RING 25152-381		1
10	LOCKWASHER	J08	15991	4	34 ★ BEARING HSG O-RING S1676		1
11 <del>*</del>	ADJ SHIM SET	13131-3	17040	12	35 HEX HD CAPSCREW B0804 1/2	15991	4
12	CASING DRAIN PLUG	P08	15079	1	36 LOCKWASHER J08	15991	4
13	CASING DRAIN PLUG	P08	15079	1			
14 *	BACK CVR PLATE O-RING	G S1676		1	NOT SHOWN:		
15	BACK COVER PLATE	38243-468	11010	1	DRIVE ASSY 44162-159		1
16	LOCKING COLLAR	38115-551	15001	4	PIPE PLUG P12	15079	1
17 *	ADJ SCREW	31871-070	1500X	4	OIL LEVEL DECAL 38816-123		1
18	STUD	C1213	15991	4			
19	HAND KNOB	38115-901	10000	4	ALTERNATE PARTS:		
20	PIPE PLUG	P08	15079	1	60 SERIES NAME PLATE 2613R	13990	1
21	PIPE PLUG	P08	15079	1	DRIVE SCREW BM#04-03	17000	2
22	HEX HD CAPSCREW	B1213	15991	8			
23	LOCKWASHER	J12	15991	8	PA SERIES NAME PLATE 38818-127	13000	1
24	HEX NUT	D12	15991	8	DRIVE SCREW BM#04-03	17000	4

<sup>\*</sup> INDICATES PARTS RECOMMENDED FOR STOCK

ACDEU PA6C 60 – 4045D

S/N 1263840 Up PUMP ISSUE 1

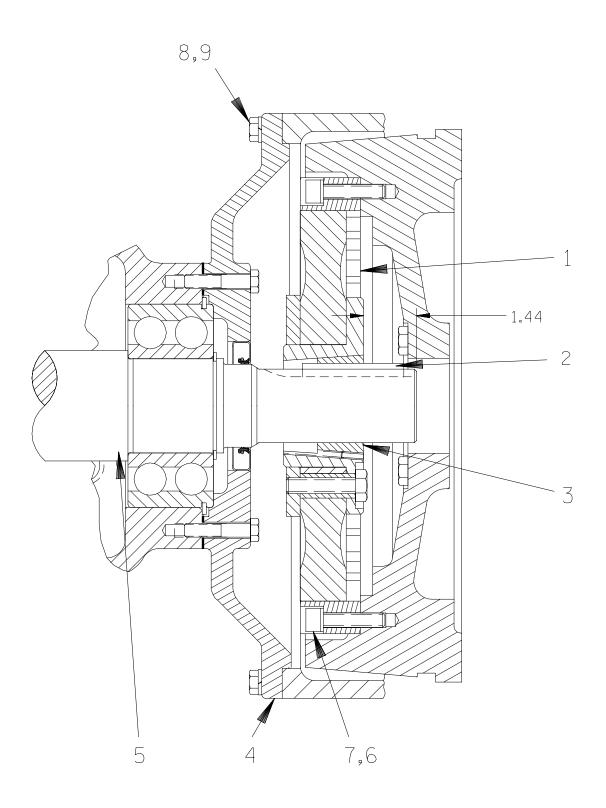


DRIVE END VIEW

PARTS LIST 44163-253 Repair Rotating Assembly

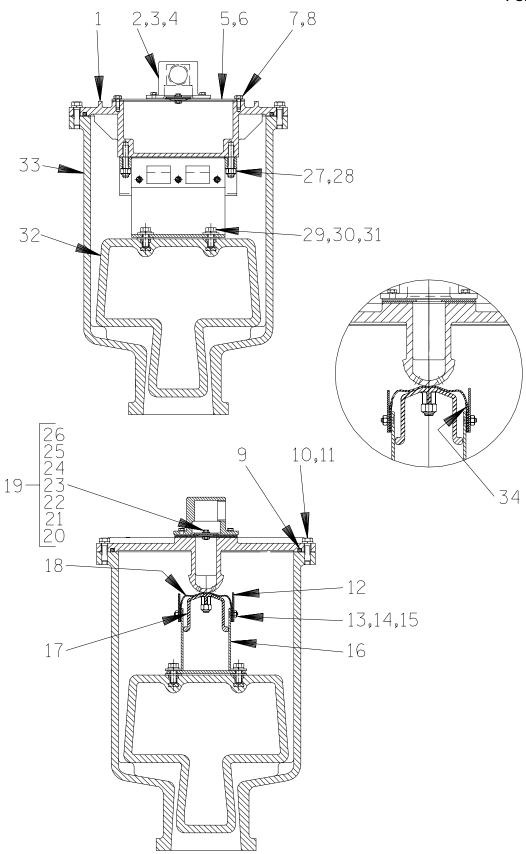
ITEM PART NAME NO.	PART NUMBER	MAT'L CODE	QTY	ITEM PART NAME NO.	PART NUMBER	MAT'L CODE	QTY
1 * IMPELLER	38615-092	11010	1	20 SEAL PLATE	38272-256	10000	1
2 * SEAL ASSY	46512-149		1	21 SOCKET HD CAPSCRE	W DM1004S	17090	1
3 * INBOARD BALL BEARING	G 23422-019		1	22 IMPELLER WASHER	31514-015	17000	1
4 BEARING HOUSING	38251-513	10000	1	23 PIPE PLUG	P12	15079	1
5 VENTED PLUG	4823A	15079	1	24 PIPE PLUG	P08	15079	1
6 AIR VENT	S1530		1	25 BRG CVTY DRAIN PLU	G P08	15079	1
7 RED PIPE BUSHING	AP0802	15079	1	26 SIGHT GAUGE	S1471		1
8 * OUTBOARD BALL BRG	23422-414		1	27 INTERMEDIATE GUARI	42381 – 509	24152	2
9 DRIVE FLANGE	38545-004	10000	1	28 * SHAFT SLEEVE O-RIN	G 25154-131		1
10 * IMP SHAFT KEY	SUPPLIED V	V/DRIVE A	SSY	29 * IMPELLER ADJ SHIM S	ET 48261-057		1
11 * IMPELLER SHAFT	38515-586	1706H	1	30 ★ SHAFT SLEEVE	31163-019	1706H	1
12 * OIL SEAL	S1907		1	31 SHIP PLUG	11495B	15079	1
13 SNAP RING	S720		1	32 SHIP PLUG	11495B	15079	1
14 HEX HD CAPSCREW	B0608	15991	6	33 ★ ADJ SHIM SET	13131-3	17040	12
15 LOCKWASHER	J06	15991	6	34 * BRG HOUSING O-RING	S S1676		1
16 <sup>★</sup> BRG HOUSING GSKT	38683 – 474	18000	1	35 * SEAL PLATE O-RING	25152 – 381		1
17 * OIL SEAL	25227 – 771		1				
18 HEX HD CAPSCREW	B0805 1/2	15991	4	NOT SHOWN:			
19 LOCKWASHER	J08	15991	4	INSTRUCTION TAG	6588U		1

st INDICATES PARTS RECOMMENDED FOR STOCK



## PARTS LIST (SAE4/10) Drive Assembly

ITEM NO.	PART NAME	PART NUMBER	MAT′L CODE	QTY
_		444/5 04/		
1	COUPLING ASSY	44165-016		1
2	KEY	SUPPLIED W/BU	ISHING	1
3	BUSHING	24131 – 498		1
4	DRIVE FLANGE	38545-004	10000	1
5	IMPELLER SHAFT	38515-586	1706H	1
6	LOCKWASHER	21171-536		8
7	SOCKET HD CAPSCREW	BD0606 1/2	15991	8
8	HEX HD CAPSCREW	B0605	15991	12
9	LOCKWASHER	J06	15991	12



PARTS LIST 46112–704 Priming Chamber Assembly

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT′L CODE	QTY
1	PRIMING CHAMBER LID	38346-615	1300U	1	18	VALVE STRAP	33276-041	19410	1
2	PEELER VALVE NECK	38349-413	10000	1	19	CHECK VALVE ASSY	46411 – 112		1
3	HEX HD CAPSCREW	B0403 1/2	15991	4	20 🔻	← -CHECK VALVE	38671-413	19020	1
4	LOCKWASHER	J04	15991	4	21	-LOCKWASHER	J#10	17000	1
5 <del>*</del>	VALVE PLATE GSKT	38687 - 555	19060	1	22	-HEX NUT	D#10	17000	1
6	VALVE PLATE	33541-040	17000	1	23	-FLATWASHER	21161-810		1
7	HEX HD CAPSCREW	B0402 1/2	15991	4	24	-HEX HD CAPSCREW	B#10-02	17000	1
8	LOCKWASHER	J04	15991	4	25	-FLATWASHER	21161-811		1
9 <del>*</del>	LINEAR O-RING	18512-056		3.86′	26 ≯	← SEALING WASHER	25123-056		1
10	HEX HD CAPSCREW	B0605	15991	12	27	STUD	C0607	17000	2
11	LOCKWASHER	J06	15991	12	28	HEX LOCK NUT	DD06	17000	2
12	GUIDE PLATE	33522-009	17000	2	29	HEX HD CAPSCREW	B0604	17000	4
13	FLAT HD CAPSCREW	F#10-03	17000	6	30	LOCKWASHER	J06	17000	4
14	LOCKWASHER	J#10	17000	6	31	FLAT WASHER	KB06	17000	8
15	HEX NUT	D#10	17000	6	32 ≯	FRIMING VALVE FLOAT	38349-412	19220	1
16	VLV STRAP BRKT ASSY	41881 – 597	2415X	1	33	PRIMING CHAMBER	38343-018	10000	1
17	CLAMP PLATE	38349-411	14000	1	34	VLV STRAP PROTECTOR	33271-019	19000	2

<sup>\*</sup> INDICATES PARTS RECOMMENDED FOR STOCK

## For U.S. and International Warranty Information, Please Visit www.grpumps.com/warranty or call:

U.S.: 419-755-1280 International: +1-419-755-1352

For Canadian Warranty Information,
Please Visit www.grcanada.com/warranty
or call:
519-631-2870