

Use With: OM-04402  
MR-04538

PUBLICATION NUMBER PL-04642-02  
Pump Issue 2  
May 28, 1997  
Rev. B



**PRIME-AIRE<sup>TM</sup> SERIES  
PUMP MODEL  
PA6A60-4045D**

**MANUAL  
PART 2 of 3**

**PARTS  
LIST  
WITH  
PERFORMANCE CURVE**

**THE GORMAN-RUPP COMPANY • MANSFIELD, OHIO**

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

## 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 Installation/Operation Manual accompanying your pump. Your Gorman-Rupp distributor needs this information when you require parts or service.

Pump Model: \_\_\_\_\_

Serial Number: \_\_\_\_\_

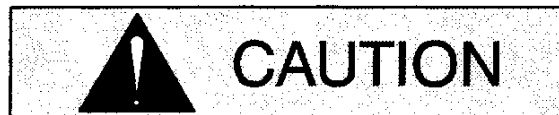
### WARRANTY INFORMATION

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.

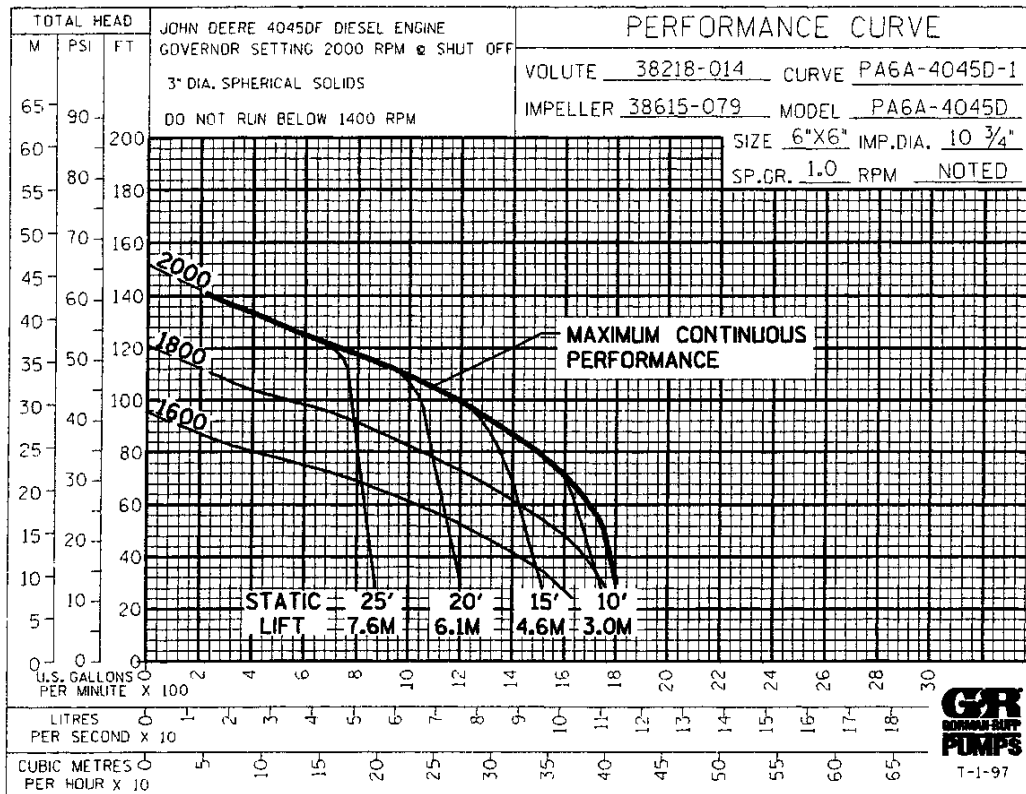
### PERFORMANCE CURVE

The performance curve on the following page is based on 70° F (21° C) clear water at sea level, corrected to 0.80 specific gravity, 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.

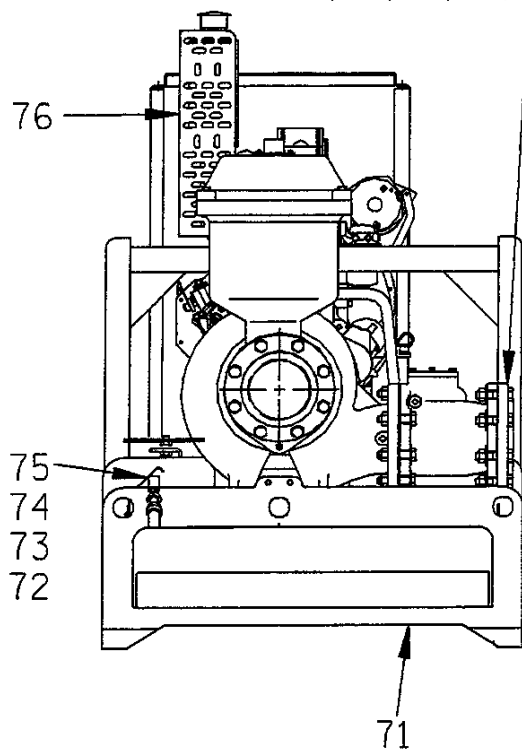
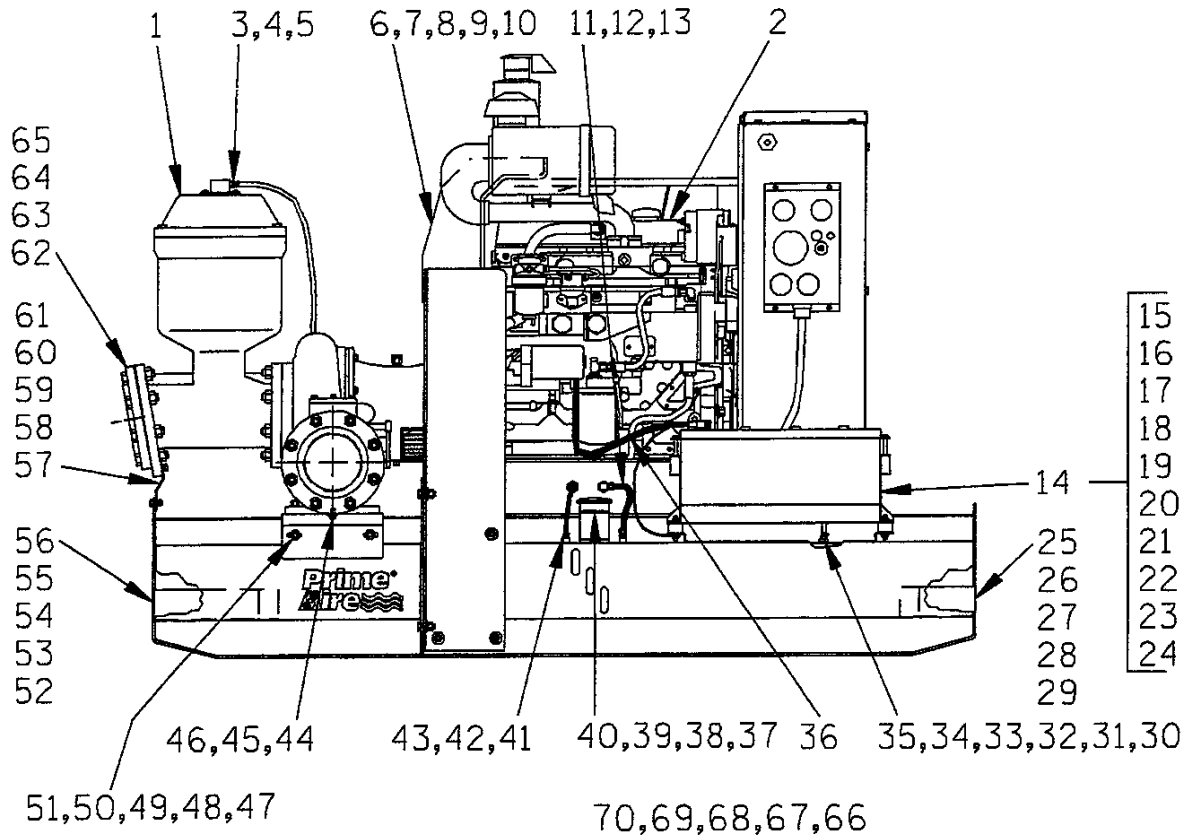


Pump speed and operating condition points must be within the continuous performance range shown on the curve.



**Performance Curve – Model PA6A60-4045D**

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**PARTS LIST**  
**Pump Model PA6A60-4045D**

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.

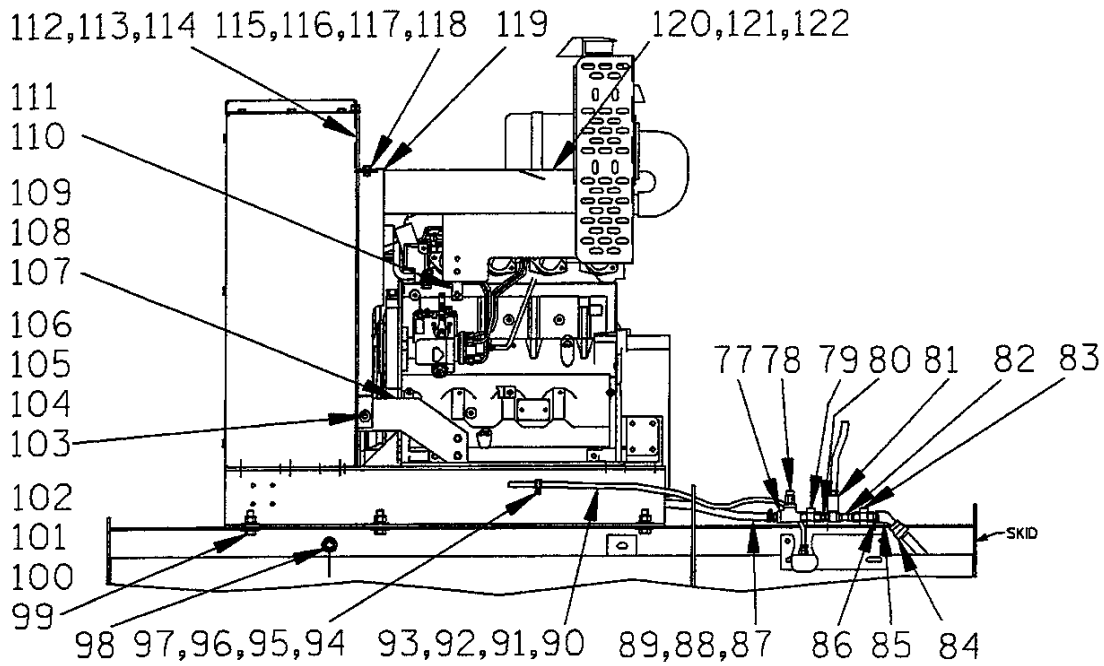
ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	PUMP ASSEMBLY	PA6A60-(SAE 4/10)		1	39	NYLON LOCK NUT	BC#10	15991	12
2	J D 4045DF150 ENGINE	29224-113	----	1	40	SEALING WASHER	25123-056	----	12
3	REDUCER BUSHING	AP1608	11999	1	41	BARB HOSE FITTING	26523-386	----	2
4	MALE CONNECTOR	S1599	----	2	42	HOSE	11308H	----	1
5	1/2" BRAIDED HOSE (3.25')	18513-113	----	1	43	HOSE CLAMP	26518-641	----	2
6	LIFTING BAIL	44711-020	24150	1	44	HEX HD CAPSCREW	B0603	15991	1
7	HEX HD CAPSCREW	B0805	15991	10	45	LOCKWASHER	J06	15991	1
8	HEX NUT	D08	15991	6	46	FLAT WASHER	K06	15991	1
9	LOCKWASHER	J08	15991	10	47	CHECK VALVE BRKT	34256-014	15120	1
10	FLAT WASHER	K08	15991	12	48	HEX HD CAPSCREW	B0604	15991	2
11	MALE CONNECTOR	S1447	----	1	49	HEX NUT	D06	15991	2
12	MALE ELBOW	26351-131	----	1	50	LOCKWASHER	J06	15991	2
13	HOSE ASSY	46341-789	----	1	51	FLAT WASHER	K06	15991	4
14	BATTERY BOX ASSY	GRP40-08C	----	1	52	FUEL TANK RETAINER	41441-408	24150	1
15	-HEX HD CAPSCREW	B0607	15991	2	53	CARRIAGE BOLT	AB0805	15991	2
16	-FLAT WASHER	K06	15991	2	54	HEX NUT	D08	15991	2
17	-FLANGED HEX NUT	21765-314	----	2	55	LOCKWASHER	J08	15991	2
18	-GRND CABLE ASSY	47311-064	----	1	56	FLAT WASHER	K08	15991	2
19	-BATTERY BOX LID	42113-012	24150	1	57	PRIM CHAMBER BRKT	34535-010	15120	1
20	-12V BATTERY	SEE OPTIONS LIST			58	HEX HD CAPSCREW	B0604	15991	3
21	-BATTERY TAG	38818-506	----	1	59	HEX NUT	D06	15991	2
22	-BATTERY BOX	42431-030	24150	1	60	LOCKWASHER	J06	15991	3
23	-STUD MOUNT	24631-006	----	4	61	FLAT WASHER	K06	15991	3
24	-FLANGED HEX NUT	21765-314	----	8	62	SUCTION FLANGE	1758	10010	1
25	A/C FUEL TANK RETAINER	41441-407	24150	1	63	SUCT FLANGE GSKT	1679G	18000	1
26	CARRIAGE BOLT	AB0805	15991	2	64	HEX HD CAPSCREW	B1212	15991	8
27	HEX NUT	D08	15991	2	65	HEX NUT	D12	15991	8
28	LOCKWASHER	J08	15991	2	66	DISCHARGE FLANGE	1758	10010	1
29	FLAT WASHER	K08	15991	2	67	DISCH FLANGE GSKT	1679G	18000	1
30	REDUCER BUSHING	AP0604	15079	1	68	HEX HD CAPSCREW	B1213	15991	8
31	BARB ELBOW	26523-386	----	1	69	HEX NUT	D12	15991	8
32	HOSE CLAMP	26518-641	----	1	70	FLAT WASHER	21161-446	----	8
33	1' PLASTIC TUBING	18523-366	----	1	71	SKID ASSY	41565-570	24150	1
34	PIPE NIPPLE	T0406	15079	1	72	VENTURI GUARD ASSY	42381-067	----	1
35	PIPE ELBOW	R04	11999	1	73	HEX HD CAPSCREW	B0504	15991	2
36	I/O CABLE ASSY	47311-107	----	1	74	LOCKWASHER	J05	15991	2
37	FUEL FILLNECK ASSY	46312-015	24150	1	75	FLAT WASHER	K05	15991	2
38	FUEL FILL GSKT	38687-553	19020	1	76	MUFFLER GRD ASSY	42331-057	----	1

\* INDICATES PARTS RECOMMENDED FOR STOCK

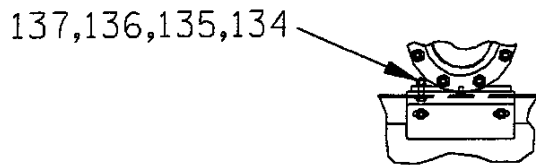
Above Serial Numbers Do Not Apply To Pumps Made In Canada.

CANADIAN SERIAL NO. .... AND UP

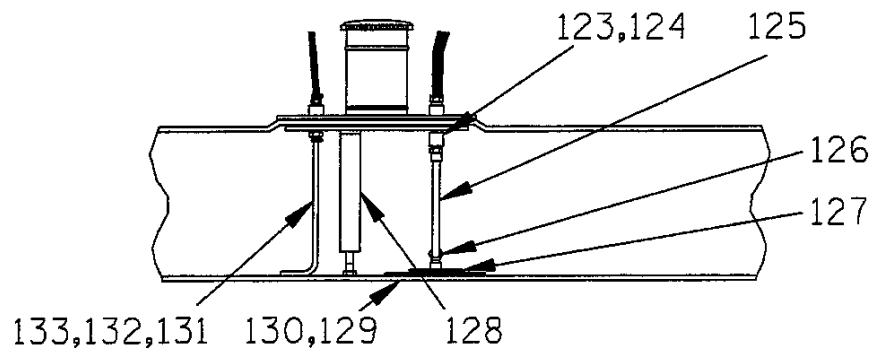
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VENTURI SYSTEM AND BELT GUARDS



PUMP FEET HARDWARE



FUEL PICK-UP SYSTEM

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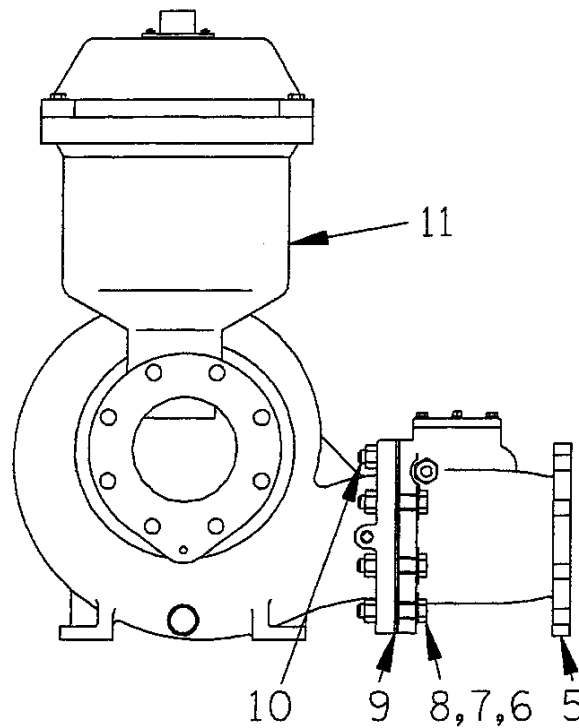
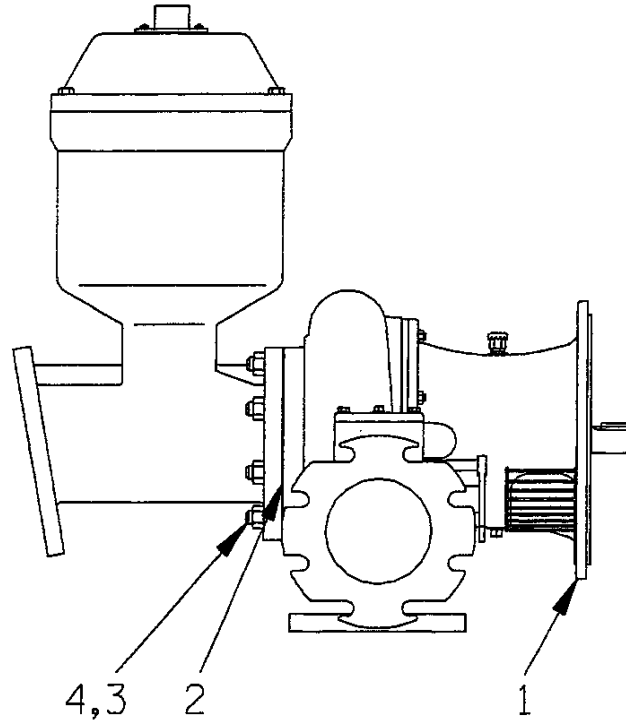
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**PARTS LIST**  
**Pump Model PA6A60-4045D**

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
77	SERVICE TEE	US08	11999	1	119	BELT GUARD	34778-007	15120	1
78	RELIEF VALVE	26662-028	----	1	120	ENG GUARD ASSY	42381-070	24150	1
79	PIPE UNION	AH08	11999	1	121	HEX HD CAPSCREW	B0603	15991	2
80	REDUCER BUSHING	AP0806	15079	1	122	LOCKWASHER	J06	15991	2
81	PIPE COUPLING	AE08	15079	1	123	45° ELBOW	26114-802	----	1
82	VENTURI	26817-002	----	1	124	MALE CONNECTOR	26171-013	----	1
83	PIPE UNION	AH08	11999	1	125	3/8" TUBING	18533-119	----	1
84	RED PIPE BUSHING	AE1208	15079	1	126	90° MALE ELBOW	26171-038	----	1
85	45° STREET ELBOW	AGS08	11999	1	127	FUEL PICK-UP ASSY	41822-009	24150	1
86	PIPE NIPPLE	T08	15079	1	128	FUEL FILLER SUPPORT	41441-406	24150	1
87	5' HOSE	18533-304	----	1	129	FUEL TANK ASSY	46711-073	----	1
88	HOSE CLAMP	26518-683	----	2	130	PIPE PLUG	P06	19220	1
89	BARB HOSE FITTING	26523-391	----	2	131	MALE CONNECTOR	26523-386	----	1
90	REDUCER BUSHING	AP0604	15079	1	132	HOSE CLAMP	26518-641	----	1
91	MALE CONNECTOR	26523-386	----	1	133	12" TUBING	18523-366	----	1
92	HOSE CLAMP	26518-641	----	1	134	HEX HD CAPSCREW	B0808	15991	2
93	2 1/2' PLASTIC TUBING	18523-366	----	1	135	FLAT WASHER	K08	15991	4
94	HEX HD CAPSCREW	B#10-03	15991	2	136	LOCK WASHER	J06	15991	2
95	HEX NUT	D#10	15991	2	137	HEX NUT	D08	15991	2
96	LOCKWASHER	J#10	15991	2					
97	CUSHION CABLE CLAMP	27111-339	----	2		NOT SHOWN:			
98	OIL DRAIN ASSY	46342-013	----	1		INSTRUCTION DECAL	38818-128	----	1
99	HEX HD CAPSCREW	B1007	15991	6		WARNING DECAL	38816-063	----	1
100	HEX NUT	D10	15991	6		LUBE DECAL	38816-079	----	1
101	LOCKWASHER	J10	15991	6		WARNING DECAL	38816-096	----	1
102	FLAT WASHER	K10	15991	12		SUCTION STICKER	6588AG	----	1
103	HEX HD CAPSCREW	B0604	15991	1		DISCHARGE STICKER	6588BJ	----	1
104	HEX NUT	D06	15991	1		RPM DECAL	2613FJ	----	1
105	LOCKWASHER	J06	15991	1		LIFT DECAL	38816-175	----	1
106	FLAT WASHER	K06	15991	2		LIFT DECAL	38816-218	----	2
107	BELT GUARD ASSY	33441-004	15120	1		PA DECAL	38812-078	----	2
108	HEX HD CAPSCREW	22645-180	----	2		WARNING DECAL	2613FE	----	1
109	LOCKWASHER	21171-512	----	2		ROTATION STICKER	2613M	----	1
110	GUARD BRKT ASSY	42381-071	24150	1		G-R DECAL	GR06	----	2
111	HEX HD CAPSCREW	22645-158	----	1		INSTR TAG PAPER	38817-009	----	1
112	HEX HD CAPSCREW	B0603	15991	1		ENG START-UP TAG	38816-269	----	1
113	LOCKWASHER	J06	15991	1		NAME PLATE	38818-127	13000	1
114	GUARD BRKT ASSY	42381-072	24150	1		DRIVE SCREW	BM#04-03	17000	4
115	HEX HD CAPSCREW	B0604	15991	2		STRAINER	7823A	24000	1
116	HEX NUT	D06	15991	2					
117	LOCKWASHER	J06	15991	2		OPTIONAL:			
118	FLAT WASHER	K06	15991	2		12V BATTERY	29331-506	----	1

\* INDICATES PARTS RECOMMENDED FOR STOCK

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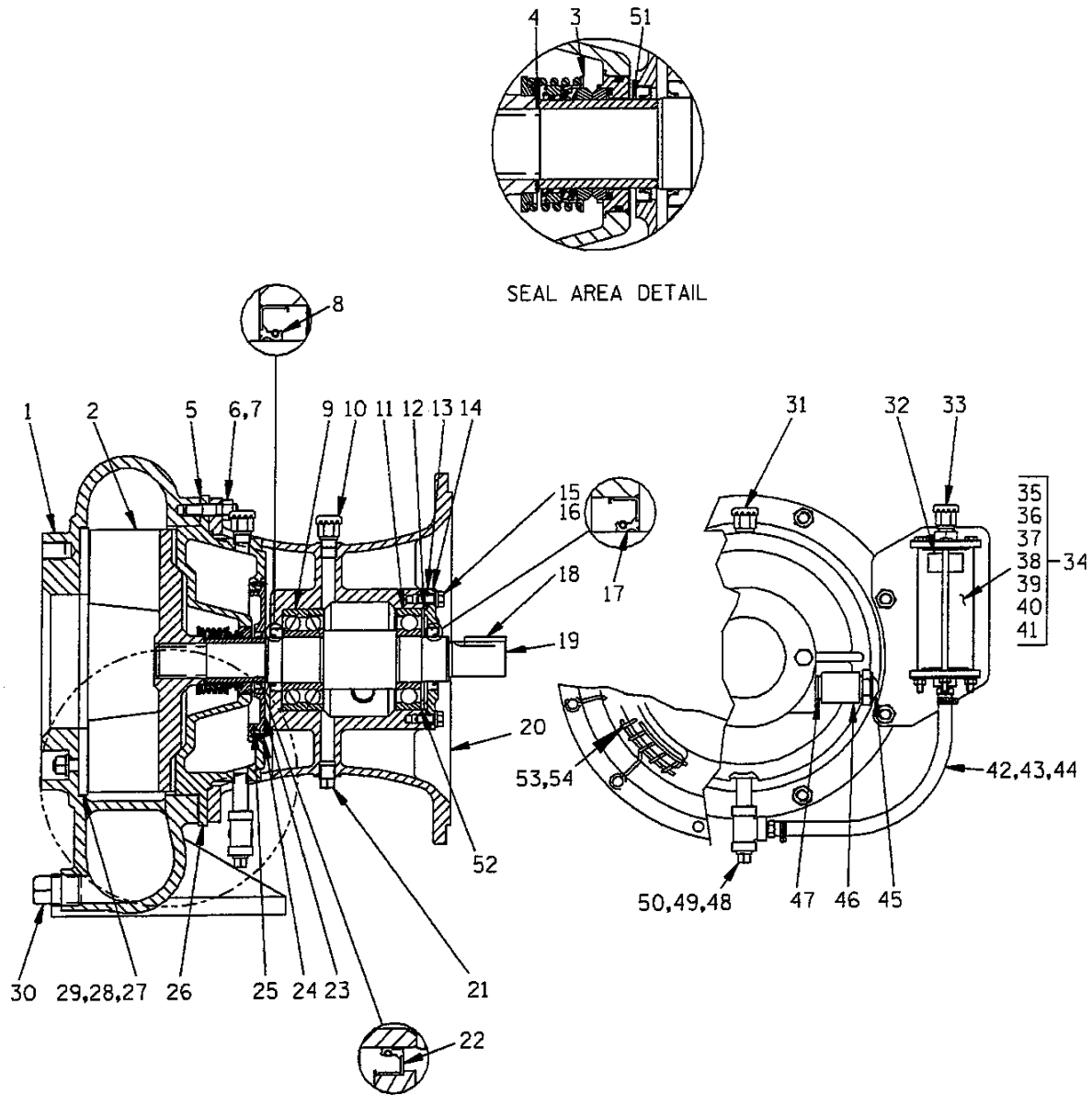
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**PARTS LIST**  
**PA6A60-(SAE 4/10) Pump Assembly**

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	PUMP END ASSY	66E60-(SAE4/10)	---	1
2	* PUMP CASING GSKT	1679G	18000	1
3	STUD	C1211	15991	8
4	HEX NUT	D12	15991	8
5	CHECK VALVE ASSY	46421-061	---	1
6	HEX HD CAPSCREW	B1214	15991	6
7	FLAT WASHER	21161-446	---	6
8	HEX NUT	D12	15991	6
9	* CHECK VALVE GSKT	25113-036	---	1
10	HEX NUT	D12	15991	2
11	PRIMING CHAMBER ASSY	46112-703	---	1

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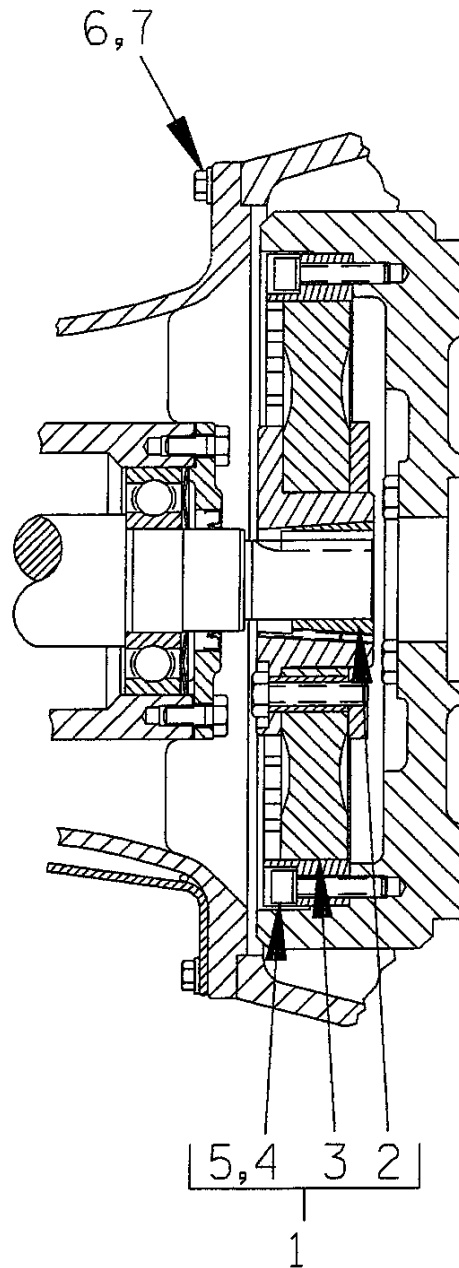
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**PARTS LIST**  
**66E60-(SAE4/10) Pump End Assembly**

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	PUMP CASING	38218-014	10000	1	29	LOCKWASHER	J08	15991	2
2 *	IMPELLER ASSY	46151-409	---	1	30	CASING DRAIN PLUG	P16	10009	1
	-SPRING RETAINER	31167-023	15000	1	31	AIR VENT	S1703	----	1
3 *	SEAL ASSY	46512-048	----	1	32	OIL LEVEL DECAL	38816-123	----	1
4 *	ADJ SHIM SET	5091	17090	1	33	AIR VENT	S1703	----	1
5 *	CASING GASKET SET	34G	18000	1	34	SIGHT GAUGE ASSY	46353-045	----	1
6	STUD	C0809	15991	8	35	-LOWER COVER	26846-501	----	2
7	HEX NUT	D08	15991	8	36	-SUPPORT ASSY	41881-555	24150	1
8 *	OIL SEAL	25258-622	----	1	37	-HEX HD CAPSCREW	B0426	15991	3
9 *	INBOARD BALL BEARING	23421-461	----	1	38	-HEX NUT	D04	15991	3
10	AIR VENT	S1703	----	1	39	-LOCKWASHER	J04	15991	3
11 *	OUTBOARD BALL BRG	S1077	----	1	40 *	-CHAMBER GSKT	38681-204	20000	2
12 *	THRUST WASHER	31133-197	15210	1	41	-SIGHT CHAMBER	26846-502	----	1
13 *	BRG COVER GSKT	5413G	18000	1	42	MALE CONNECTOR	26523-409	----	2
14	BEARING CAP	4185A	10010	1	43	HOSE	18513-054	----	1
15	HEX HD CAPSCREW	B0604	15991	4	44	HOSE CLAMP	26518-642	----	2
16	LOCKWASHER	J06	15991	4	45	OIL LVL SIGHT GAUGE	S1471	----	1
17 *	OIL SEAL	25258-622	----	1	46	PIPE COUPLING	AE12	15079	1
18 *	IMP SHAFT KEY	N0607	15990	1	47	PIPE NIPPLE	T12	15079	1
19 *	IMPELLER SHAFT	38514-807	1706H	1	48	PIPE NIPPLE	T0608	15079	1
20	INTERMEDIATE	38263-614	10010	1	49	PIPE TEE	U06	11999	1
21	BRG CAVITY DRAIN PLUG	P06	15079	1	50	SEAL CVTY DRAIN PLUG	P06	15079	1
22 *	OIL SEAL	25258-620	----	1	51 *	SHAFT SLEEVE	31163-016	1706H	1
23	SEAL PLATE COVER	38242-707	10000	1	52 *	BRG SHIM SET	8546	15990	1
24	FH MACHINE SCREW	Y#10-02	15991	4	53	INTERMEDIATE GUARD	42381-031	24150	1
25 *	SEAL PLT COVER O-RING	25152-256	----	1	54	INTERMEDIATE GUARD	42381-032	24150	1
26	SEAL PLATE	38272-527	10000	1		NOT SHOWN:			
27 *	WEAR PLATE ASSY	46451-746	24150	1		PIPE PLUG	P06	15079	2
28	HEX NUT	D08	15991	2		DRIVE ASSY	44162-119	----	1
						PIPE PLUG	P04	15079	1

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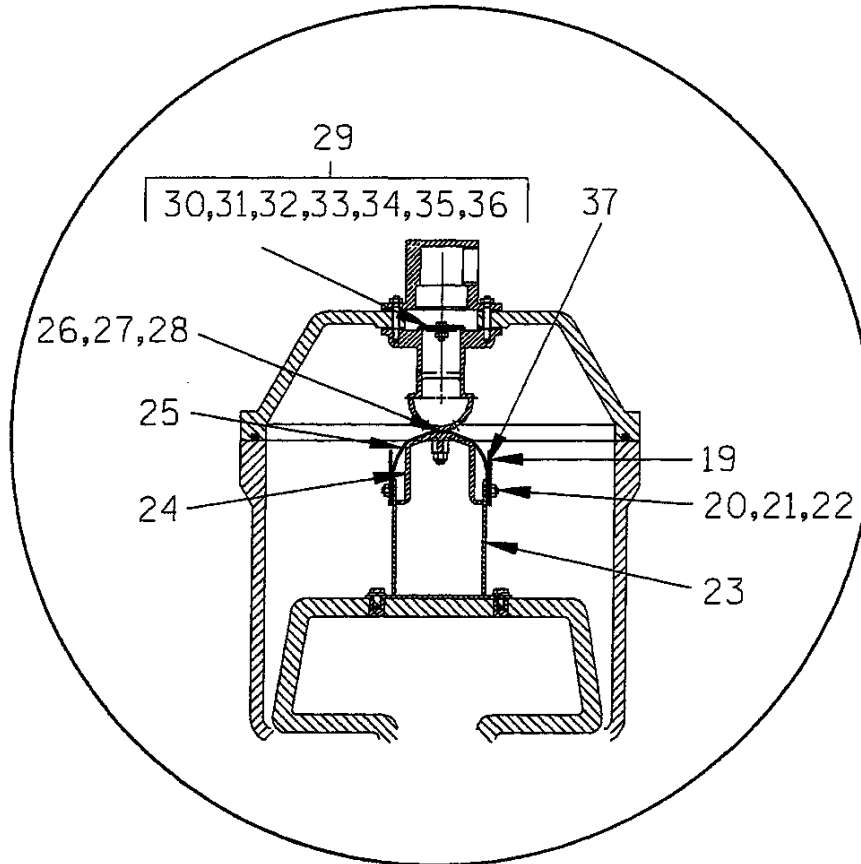
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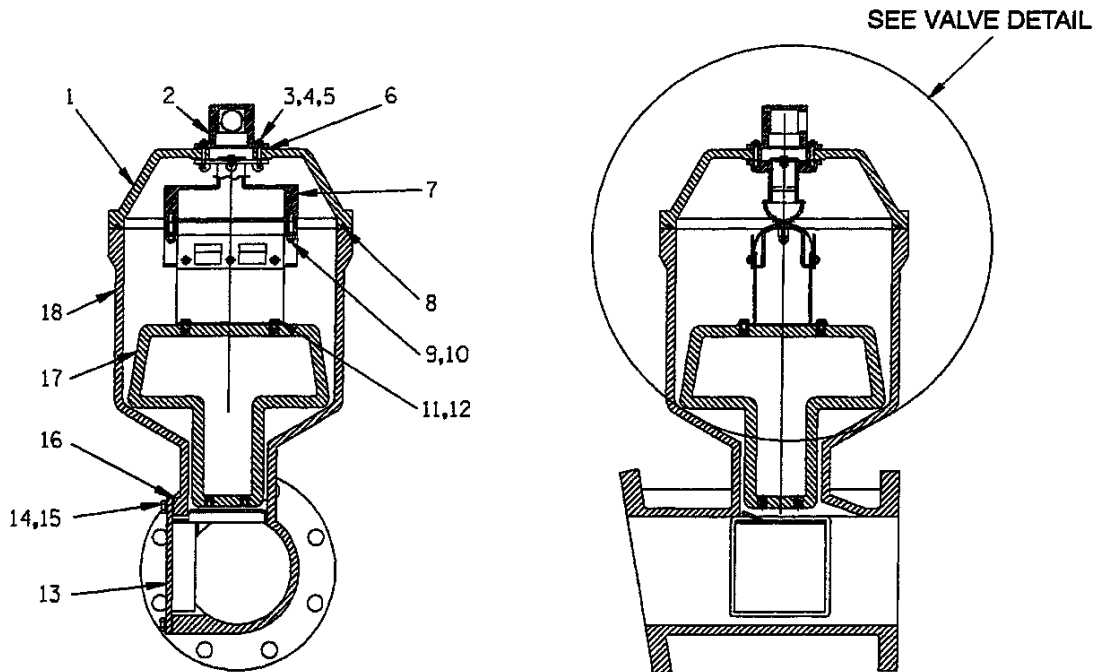
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**PARTS LIST**  
**(SAE4/10) Drive Assembly**

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	COUPLING KIT	48112-001	---	1
2	-BUSHING	24131-345	---	1
3	-COUPLING ASSEMBLY	44165-011	---	1
4	-LOCKWASHER	21171-536	---	8
5	-SOCKET HD CAPSCREW	BD0606 1/2	15991	8
6	HEX HD CAPSCREW	B0605	15991	12
7	LOCKWASHER	J06	15991	12



VALVE DETAIL



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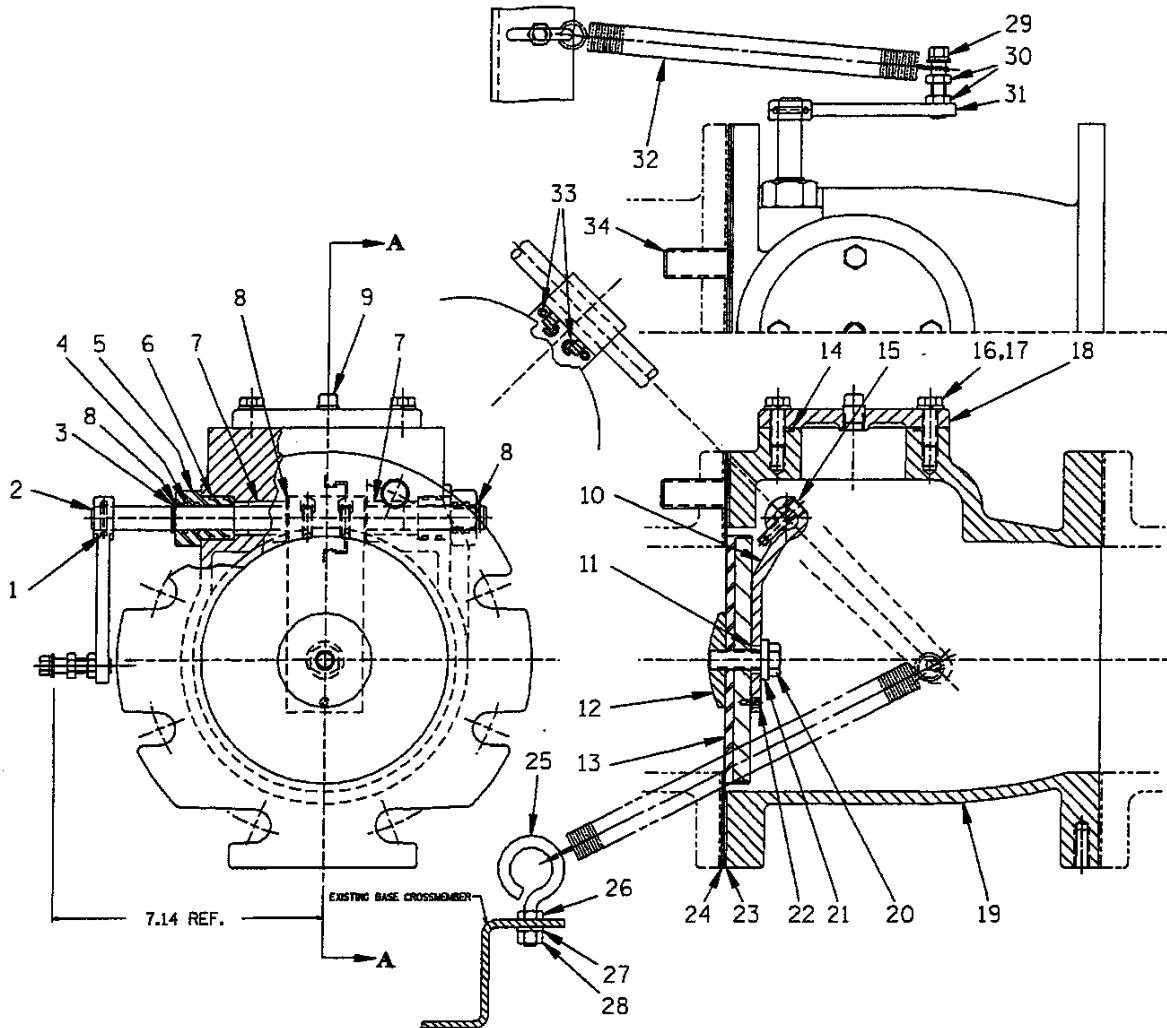
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**PARTS LIST**  
**46112-703 Peeler Type Priming Valve**

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY	ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	PRIMING CHAMBER LID	38346-613	13000	1	21	LOCKWASHER	J#10	17000	6
2	PEELER VALVE NECK	38349-410	10000	1	22	HEX NUT	D#10	17000	6
3	LOCKWASHER	J#10	17000	4	23	VLV STRAP BRKT ASSY	41881-523	2415X	1
4	HEX NUT	D#10	17000	4	24	CLAMP PLATE	38349-406	14000	1
5	STUD	21332-038	---	4	25	VALVE STRAP	33276-041	19000	1
6 *	NECK GASKET	38683-266	19020	1	26	ADJ SHIM (IF REQ'D)	1868A	17000	2
7	VALVE BODY	38343-014	14000	1	27	ADJ SHIM (IF REQ'D)	1868B	17000	2
8 *	GASKET STRIP 4.06' LG	18515-031	---	1	28	ADJ SHIM (IF REQ'D)	1868C	17000	2
9	STUD	C0406 1/2	17000	2	29	CHECK VALVE ASSY	46411-112	---	1
10	HEX LOCK NUT	BC04	17000	2	30 *	-CHECK VALVE	38671-413	19020	1
11	HEX HD CAPSCREW	B0403	17000	4	31	-LOCKWASHER	J#10	17000	1
12	LOCKWASHER	J04	17000	4	32	-HEX NUT	D#10	17000	1
13	INDUCTOR GUARD ASSY	42381-066	24150	1	33	-FLATWASHER	21161-810	---	1
14	HEX HD CAPSCREW	B0603	15991	4	34	-HEX HD CAPSCREW	B#10-02	17000	1
15	LOCKWASHER	J06	15991	4	35	-FLATWASHER	21161-811	---	1
16 *	CHAMBER GSKT	38687-552	18000	1	36	-SEALING WASHER	S1590	---	1
17 *	PRIMING VALVE FLOAT	38349-404	19220	1	37	VLV STRAP PROTECTOR	33271-019	19000	2
18	PRIMING CHAMBER	38343-017	10000	1	NOT SHOWN:				
19	GUIDE PLATE	38522-009	17000	2		HEX HD CAPSCREW	B0807	15991	4
20	FLAT HD CAPSCREW	F#10-03	17000	6		PIPE PLUG	P04	15079	1

\* INDICATES PARTS RECOMMENDED FOR STOCK

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**PARTS LIST**  
**46421-061 Check Valve Assembly**

ITEM NO.	PART NAME	PART NUMBER	MAT'L CODE	QTY
1	* GROOVE PIN	21142-557	---	1
2	SHAFT	31671-004	1706H	1
3	SNAP RING	S668	---	2
4	* SHAFT O-RING	25152-114	---	4
5	SHAFT NUT	31871-064	14100	2
6	* SHAFT NUT O-RING	25152-119	---	4
7	* BUSHING	23181-153	---	2
8	SHIM	513A	17090	4
9	PIPE PLUG	P04	15079	1
10	VALVE ARM	38122-003	17070	1
11	SPACER	31133-218	17080	1
12	VALVE WEIGHT	11588	10010	1
13	* MOLDED CHECK VALVE - NEOPRENE	46411-098	24010	1
14	* COVER O-RING	25152-152	---	1
15	SOCKET HD CAPSCREW	31871-067	17000	2
16	HEX HD CAPSCREW	B0604	15991	4
17	LOCKWASHER	J06	15991	4
18	VALVE INSPECTION COVER	38346-614	10010	1
19	VALVE BODY	38341-501	10010	1
20	NYLOCK CAPSCREW	BT0806-1/2	15991	1
21	FLAT WASHER	21161-501	---	1
22	* GROOVE PIN	21142-150	---	1
23	* CHECK VALVE GASKET	25113-097	---	1
24	* SEAT	31265-042	17050	1
25	EYE BOLT	21753-207	---	1
26	JAM NUT	AT06	15991	1
27	LOCK WASHER	J06	15991	2
28	HEX NUT	D06	15991	REF
29	CAPSCREW W/SHOULDER	31871-065	15991	1
30	JAM NUT	AT06	15991	2
31	HANDLE	38582-021	11060	1
32	* SPRING	24641-014	---	1
33	COTTER PIN	21126-712	---	2
34	STUD	C1212	15991	2

## OPTIONAL:

MOLDED CHECK VALVE - BUNA-N	46411-116	24010	1
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\* INDICATES PARTS RECOMMENDED FOR STOCK

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