



PSP-3340

**Polypropylene Self-Priming
3" Centrifugal Pump**

Installation and Operation Manual

WARNING: USE OF THIS PRODUCT FOR ANY PURPOSES OTHER THAN ITS ORIGINAL INTENT, ABUSE OF THE PRODUCT, AND/OR MODIFICATION TO THE ORIGINAL PRODUCT IS STRICTLY PROHIBITED BY JOHN BLUE COMPANY. JOHN BLUE COMPANY RESERVES THE RIGHT TO DENY WARRANTY OR LIABILITY CLAIMS IN ANY/ALL SITUATIONS INVOLVING MISUSE, ABUSE OR MODIFICATION.

THE ORIGINAL INTENT OF THIS PRODUCT DOES NOT INCLUDE USE WHERE THE MAXIMUM ALLOWED PRESSURE OR TEMPERATURE IS EXCEEDED, AND IT DOES NOT INCLUDE APPLICATIONS UTILIZING FLUIDS THAT ARE NOT COMPATIBLE WITH THE PRODUCT'S COMPONENT MATERIALS. DO NOT USE THIS PRODUCT WITH FLAMMABLE OR COMBUSTIBLE FLUIDS SUCH AS GASOLINE, KEROSENE, DIESEL, ETC... FAILURE TO FOLLOW THIS NOTICE MAY RESULT IN SERIOUS INJURY AND/OR PROPERTY DAMAGE AND WILL VOID THE PRODUCT WARRANTY. IF IN DOUBT ABOUT YOUR APPLICATION, CONTACT YOUR STOCKING DEALER OR THE JOHN BLUE TECHNICAL STAFF AT 1-800-253-2583.

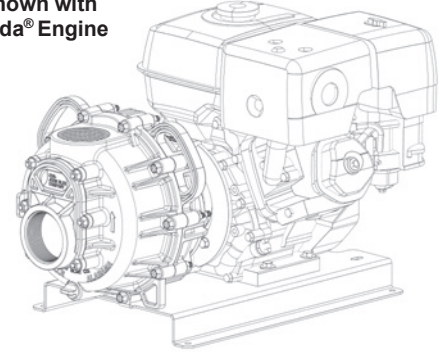
WARNING: This product can expose you to certain chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.

SAFETY PRECAUTIONS: EQUIPMENT SHOULD BE OPERATED BY RESPONSIBLE PEOPLE. A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT. FILL SYSTEM WITH WATER FIRST AND CHECK FOR LEAKS – REPLACE HOSES WHEN WORN OR CRACKED.

Specifications:

- Max flow: 375 gpm
- Max pressure: 45 psi
- Required HP: 10 HP
- Port size: 3" FPT
- Materials: Polypropylene, Viton® O-rings,
316 stainless bolts and shaft
- Optional screw-in M300 flange adapter is P/N: 116431-01

**PSP-3340 shown with
GX-390 Honda® Engine**



Installation:

- The standard pump is configured for pedestal mounting, you must order a "-E" pump for use on an electric motor, and you must order a "-BS" pump for use with a gas engine. (see page 4 for more details)
- Note that any plumbing must be supported so that its weight does not hang off of the pump – this will void the warranty.
- For best results when installing any fittings into the inlet and outlet of the pump, apply soft-set thread sealant to both the male threads on the fitting and the female threads of the pump. (Examples of soft-set thread sealants include Gasoila Soft-Set Thread Sealant with PTFE and Permatex Thread Sealant with PTFE or equivalent)
- The inlet configuration of the pump may be changed by removing the 6 locknuts holding the inlet on. The inlet check valve flap may also be removed in the high configuration. Using the pump in the high inlet condition allows the outlet hose to drain when the pump is shut off, which is beneficial to some users. Tighten all housing fasteners to 5 ft-lbs.

Start-up Procedure:

- Inspect all fittings to insure they are tight and free of leaks.
- Inspect antifreeze level in the seal reservoir. Antifreeze level should be around 1/2" from the opening.
- Add 50/50 pre-diluted automotive antifreeze as required to maintain proper level in the seal reservoir."
- Insure Impeller is rotating in the correct direction, as indicated by arrow on Main Housing
- Make sure Inlet Flap moves freely and is in the down or closed position.
- Pre-fill pump Housing to the top of the outlet with fluid being pumped.
- Attach inlet and outlet hoses and secure.
- Open inlet and outlet valves.
- Initiate power to the pump.

Storage:

- After use flush the pump with a solution that will neutralize the fluid you have been pumping, and then drain. *Do not use water to flush acids* – resulting damage not warrantied.

Note to the Owner

The pump should be inspected annually for any wear or damage to any of the components in order to ensure proper operation. Enter the date of installation in the space provided for future reference. This information will be required for ordering replacement parts or servicing your pump.

Our engineering department constantly improves its products. We reserve the right to make design and specification changes without notice.

DATE OF INSTALLATION: _____

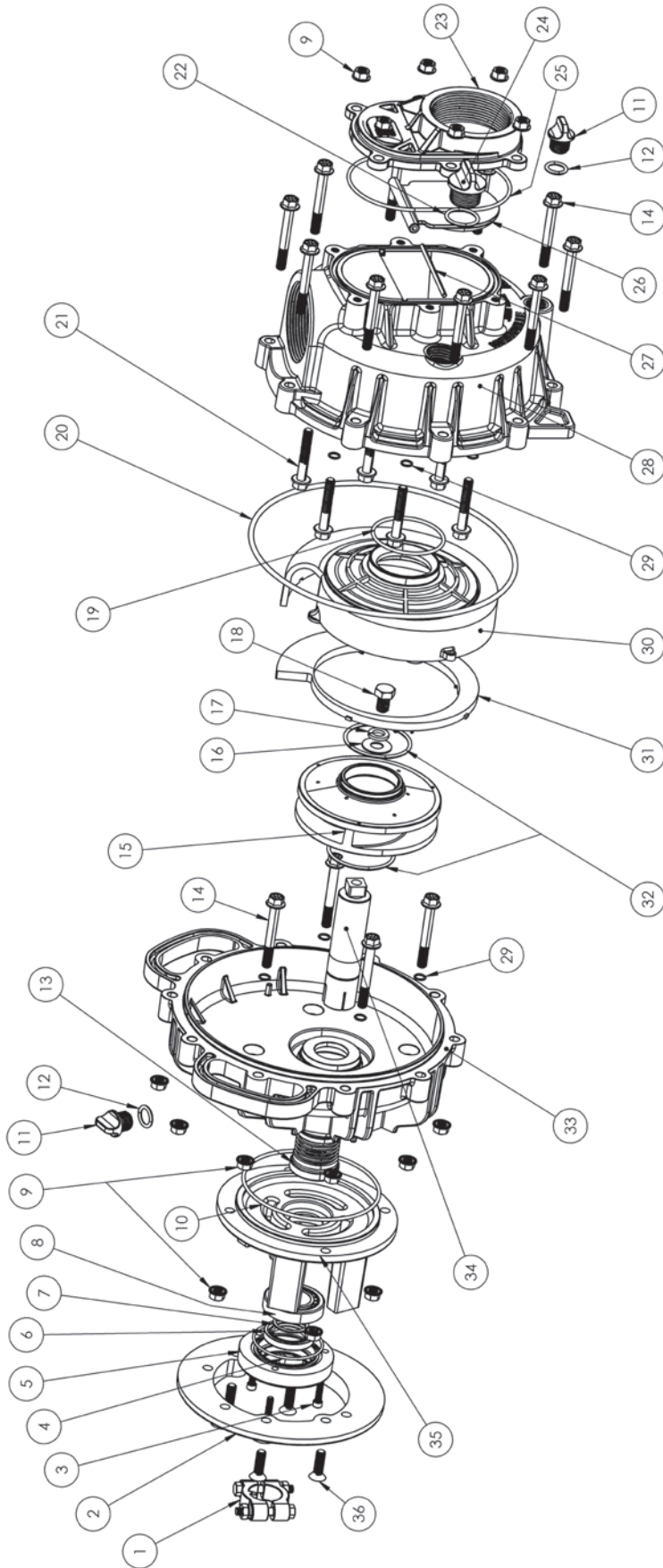
Maintenance:

- The seal reservoir may be inspected by opening the fill plug. The fluid level should be approximately ½" below the opening. If the fluid is dirty, drain by tilting the pump upside down or pull it out with a vacuum, then replace with PREMIXED antifreeze. If the fluid is cloudy, the impeller side seal may be leaking.
- The tapered roller bearing, P/N: 116511-01, is packed with Polyrex EM type grease during the assembly process of the pump. Anytime the pump is disassembled for maintenance or pump repair, all grease and any contaminants must be removed from the bearing and grease reservoir, then the bearing must be repacked with Polyrex EM type grease. Failure to perform this process could significantly reduce the life of the bearing. It is recommended to ensure proper bearing life; all grease and any contaminants be removed from the bearing and grease reservoir and the bearing be repacked with Polyrex EM type grease at minimum every 1,000 hours of pump operation.

Troubleshooting:

ISSUE	PROBABLE CAUSE
Pump makes rattling noise while running	Cavitation or pump starvation (suction lift is too high or the inlet line is too restrictive)
Interference observed between impeller and scroll plate	Pump was not installed properly using installation tool and the shaft is inserted too far into the pump.
Reduced pump output or pressure	Clogged impeller or inlet piping (including strainer)
	Leaks in suction line or at inlet gasket
	Collapsed suction line
	Trapped air in sections of suction line
	Suction lift is too great
	Discharge lift is too great
	Worn or damaged parts (impeller or volute)
Pump fails to prime or slow prime	Leaks in suction line or at inlet gasket
	Failure to pre-fill pump with fluid to generate suction
	Suction lift is too great
	Collapsed suction line
	User may need to swap the inlet flange orientation (change from center inlet to high inlet without flap)
Seal reservoir fluid changes level	Leak at the input shaft seal if level is low
	Leak at the impeller side seal if level is high

Parts Breakdown:



PSP-3340-BS			PSP-3340-E			PSP-3340		
ITEM NUMBER	PART NUMBER	DESCRIPTION	QTY.	PART NUMBER	DESCRIPTION	QTY.	PART NUMBER	DESCRIPTION
1	S-3608AS	SS SHAFT CLAMP ASSEM - 3" KEYED	1	S-3608S	SS SHAFT CLAMP ASSEM - 3" SMOOTH	1	S-3608S	SS SHAFT CLAMP ASSEM - 3" SMOOTH
2	116510-01	3" GAS ENGINE ADAPTER RING	1	116509-01	3" ELECT MOTOR ADAPTER RING	1	116508-01	3" PEDESTAL ADAPTER RING
3	90512	1/4-20 SOCKET HEAD CAP SCREW	3	90512	1/4-20 SOCKET HEAD CAP SCREW	3	90512	1/4-20 SOCKET HEAD CAP SCREW
4	116515-01	-149 O-RING, Buna	1	116515-01	-149 O-RING, Buna	1	116515-01	-149 O-RING, Buna
5	116507-01	3" ADAPTER BEARING CAP	1	116507-01	3" ADAPTER BEARING CAP	1	116507-01	3" ADAPTER BEARING CAP
6	116513-01	ROTARY SHAFT SEAL	1	116513-01	ROTARY SHAFT SEAL	1	116513-01	ROTARY SHAFT SEAL
7	116514-01	EXTERNAL RETAINING RING	1	116514-01	EXTERNAL RETAINING RING	1	116514-01	EXTERNAL RETAINING RING
8	116511-01, 116512-01	TAPERED ROLLER BEARING ASSEMBLY	1	116511-01, 116512-01	TAPERED ROLLER BEARING ASSEMBLY	1	116511-01, 116512-01	TAPERED ROLLER BEARING ASSEMBLY
9	91077	3/8-16 FLANGED LOCK NUT	20	91077	3/8-16 FLANGED LOCK NUT	20	91077	3/8-16 FLANGED LOCK NUT
10	116434-01	-255 O-RING, VITON	1	116434-01	-255 O-RING, VITON	1	116434-01	-255 O-RING, VITON
11	116288-01	1/2" NPT PLUG - POLY SP PUMPS	2	116288-01	1/2" NPT PLUG - POLY SP PUMPS	2	116288-01	1/2" NPT PLUG - POLY SP PUMPS
12	116294-01	-115 O-RING, VITON	2	116294-01	-115 O-RING, VITON	2	116294-01	-115 O-RING, VITON
13	43005	SEAL, VITON	1	43005	SEAL, VITON	1	43005	SEAL, VITON
14	116291-01	FLANGED HEAD 316SS BOLT, 3/8-16 X 3	14	116291-01	FLANGED HEAD 316SS BOLT, 3/8-16 X 3	14	116291-01	FLANGED HEAD 316SS BOLT, 3/8-16 X 3
15	116427-91	IMPELLER ASSEMBLY - 3" POLY SP	1	116427-91	IMPELLER ASSEMBLY - 3" POLY SP	1	116427-91	IMPELLER ASSEMBLY - 3" POLY SP
16	93044	1/2" FLAT WASHER, 316 SS	1	93044	1/2" FLAT WASHER, 316 SS	1	93044	1/2" FLAT WASHER, 316 SS
17	116521-01	1/2" LOCK WASHER, 316 SS	1	116521-01	1/2" LOCK WASHER, 316 SS	1	116521-01	1/2" LOCK WASHER, 316 SS
18	116520-01	1/2-13 X 3/4 HHCS, 316 SS	1	116520-01	1/2-13 X 3/4 HHCS, 316 SS	1	116520-01	1/2-13 X 3/4 HHCS, 316 SS
19	116433-01	-233 O-RING, VITON	1	116433-01	-233 O-RING, VITON	1	116433-01	-233 O-RING, VITON
20	116436-01	-379 O-RING, VITON	1	116436-01	-379 O-RING, VITON	1	116436-01	-379 O-RING, VITON
21	116482-01	FLANGED HEAD 316SS BOLT, 3/8-16 X 2-3/8	6	116482-01	FLANGED HEAD 316SS BOLT, 3/8-16 X 2-3/8	6	116482-01	FLANGED HEAD 316SS BOLT, 3/8-16 X 2-3/8
22	116293-01	-123 O-RING, VITON	1	116293-01	-123 O-RING, VITON	1	116293-01	-123 O-RING, VITON
23	116428-01	INLET FLANGE NPT - 3" POLY SP	1	116428-01	INLET FLANGE NPT - 3" POLY SP	1	116428-01	INLET FLANGE NPT - 3" POLY SP
24	116289-01	1" NPT PLUG - POLY SP PUMPS	1	116289-01	1" NPT PLUG - POLY SP PUMPS	1	116289-01	1" NPT PLUG - POLY SP PUMPS
25	116435-01	-257 O-RING, VITON	1	116435-01	-257 O-RING, VITON	1	116435-01	-257 O-RING, VITON
26	116216-01	3" INLET FLAP	1	116216-01	3" INLET FLAP	1	116216-01	3" INLET FLAP
27	116217-01	3" FLAP HINGE PIN	1	116217-01	3" FLAP HINGE PIN	1	116217-01	3" FLAP HINGE PIN
28	116425-01	HOUSING - 3" POLY SP	1	116425-01	HOUSING - 3" POLY SP	1	116425-01	HOUSING - 3" POLY SP
29	116300-01	-012 O-RING, VITON	10	116300-01	-012 O-RING, VITON	10	116300-01	-012 O-RING, VITON
30	116438-01	SCROLL PLATE - 3" POLY SP	1	116438-01	SCROLL PLATE - 3" POLY SP	1	116438-01	SCROLL PLATE - 3" POLY SP
31	116439-01	SCROLL PLATE INSERT - 3" POLY SP	1	116439-01	SCROLL PLATE INSERT - 3" POLY SP	1	116439-01	SCROLL PLATE INSERT - 3" POLY SP
32	116223-01	-231 O-RING, TEFION	2	116223-01	-231 O-RING, TEFION	2	116223-01	-231 O-RING, TEFION
33	116426-01	BACKPLATE - 3" POLY SP	1	116426-01	BACKPLATE - 3" POLY SP	1	116426-01	BACKPLATE - 3" POLY SP
34	116432-01A	SHAFT - 3" POLY SP, 316 SS, BS PUMP	1	116430-01A	SHAFT - 3" POLY SP, 316 SS, ELEC	1	116430-01A	SHAFT - 3" POLY SP, 316 SS, ELEC
35	116506-01	3" PUMP ADAPTER	1	116506-01	3" PUMP ADAPTER	1	116506-01	3" PUMP ADAPTER
36	116516-01	3/8"-16 FLAT HEAD SCREW	4	116516-01	3/8"-16 FLAT HEAD SCREW	4	116516-01	3/8"-16 FLAT HEAD SCREW

AVAILABLE GAS ENGINE AND ELECTRIC MOTORS	
Part Number	Description
115457-01	Honda GX390 Gas Engine, Electric Start
116590-01	Vanguard 14HP Gas Engine, Electric Start
C-517	10HP Electric Motor, TEFC, 3 PH
115277-01	10HP Electric Motor, TEFC, 1 PH

LIMITED WARRANTY

THIS WARRANTY IS IN LIEU OF ALL OTHER WRITTEN OR EXPRESS WARRANTIES AND REPRESENTATIONS. ANY IMPLIED WARRANTIES INCLUDING MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO THIS WRITTEN WARRANTY. JOHN BLUE COMPANY SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES.

Use of this product for any purpose other than its original intent, abuse of the product, and/or any modification to the original product is strictly prohibited by the manufacturer, John Blue Company. Any modification to the product should be approved by John Blue Company prior to use. John Blue Company will deny Warranty claims and liability in any situation involving misuse, abuse or modification.

Each new machine or component manufactured by John Blue Company through original buyer is warranted by John Blue Company to buyer and to any party or parties to whom buyer may resell, lease or lend the equipment to be free from defects in material and workmanship under normal use and service. This obligation of John Blue Company under this warranty is limited to the repair or replacement of defective parts or correction of improper workmanship of any parts of such equipment which shall within one year from the date of John Blue's original delivery thereof, be returned to John Blue's factory, transportation charges prepaid and which John Blue Company shall determine to its satisfaction upon examination thereof to have been thus defective. When it is impractical to return the defective parts of such equipment to John Blue's factory, then John Blue shall have no liability for the labor cost involved in repairing or replacing any such parts and shall be liable solely for supplying the material necessary to replace or repair the defective parts, provided that prior thereto John Blue Company shall have determined to its satisfaction that any such parts are thus defective.

This warranty shall not apply to any equipment which shall have been repaired or altered outside John Blue's factory in any way so as to affect its durability, nor which has been subjected to misuse, abuse, negligence or accident, or operated in any manner other than in accordance with operating instructions provided by John Blue Company. This warranty does not extend to repairs made necessary by the use of inferior or unsuitable parts or accessories, or parts or accessories not recommended by John Blue Company.

John Blue Company makes no warranties in respect to parts, accessories or components not manufactured by John Blue Company, same ordinarily being warranted separately by their respective manufacturers.

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