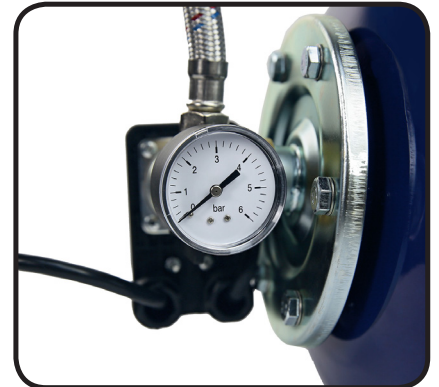




## 1-3/5HP SHALLOW WELL JET WATER PUMP

ITEM: 71038



### OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER).

FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: (909) 628 0880 MON-FRI 9AM TO 3PM PST

# IMPORTANT SAFETY INFORMATION



Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

## SAFETY

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The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

**IMPORTANT:** For your own safety before starting to run the pump, please have the following items checked by an expert:

**RISK OF ELECTRIC SHOCK:** This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, connect only to a properly grounded, grounding-type receptacle.

- Risk of electric shock: This pump has not been investigated for use in swimming pool areas.
- Electrical connections must be protected from moisture.
- If there is danger of flooding, the electrical connections must be taken to higher ground.
- Circulation of caustic fluids, as well as the circulation of abrasive materials, must be avoided at all costs.
- The pump must be protected from frost.
- The pump must be protected from running dry
- Keep children away from the unit at all times

**WARNING:** Handling the Power Cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)



# GROUNDING INSTRUCTIONS



To prevent electric shock and death from incorrect grounding wire connection read and follow these instructions:

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. **DO NOT** modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. **DO NOT** use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

- The tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances.
- The outlet must be properly installed and grounded in accordance with all codes and ordinances.
- **DO NOT** use extension cords with this pump.
- **DO NOT** use an adapter to connect this pump to a different outlet.
- The fuse must be a residual current circuit-breaker with a measured residual current of no more than 30 mA.
- Make sure the power supply corresponds with the connection specifications of the device before it is connected.
- This pump may only be used within the specified limitations for voltage and power, see the type plate.
- Check the plug and cable before each use.
- If the power cable is damaged, immediately disconnect the plug. Never use this device if the power cord is damaged.
- Unplug the power cord when the device is not in use or when transporting.

## SAFETY INSTRUCTIONS

**CAUTION:** This pump has been evaluated for use with water only.  
**Fluid Type:** The Pump is designed for use with water with a maximum temperature of 77° F (25° C). **DO NOT use the pump for other fluids, especially not fuels, cleaning fluids, or other chemical products.**

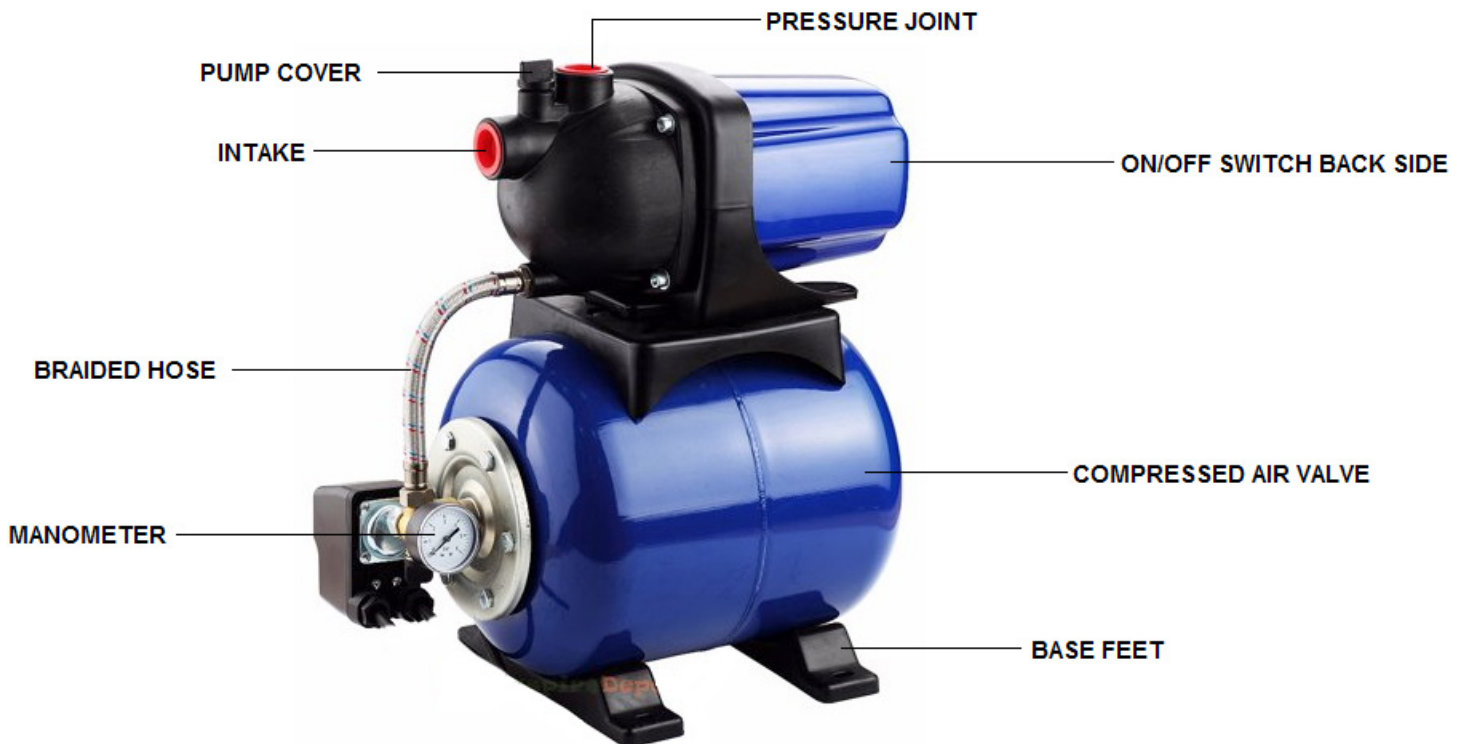
## NOT FOR POTABLE WATER

- This device is not intended to be used for providing drinking water nor for food items.
- Exposed, combustible, fecal matter or aggressive materials or substances which are hazardous must not be conveyed by the device.
- This device is not to be used for commercial or industrial use.
- Improper use or modifications to this device or the use of components not included with this device or use of components that are not tested and approved by the manufacturer may result in damage and/or serious injury.

# IMPORTANT SAFETY INFORMATION

- **NEVER** use this device near explosives or flammable materials.
- Keep this device away from children and unauthorized individuals.
- **DO NOT** overload this device by using it for unintended purposes.
- Exercise caution when using this device. Never operate this device if you are over tired or under the influence of mind altering substances.
- **ALWAYS** comply with all applicable domestic and international safety, health and working regulations.
- **DO NOT** allow this device to get wet.
- **DO NOT** leave this device unattended, unplug the device when not in use.
- Repairs should only be made by a qualified technician and/or electrician.
- Read and observe all safety instructions and warnings prior to using the device.

## COMPONENTS



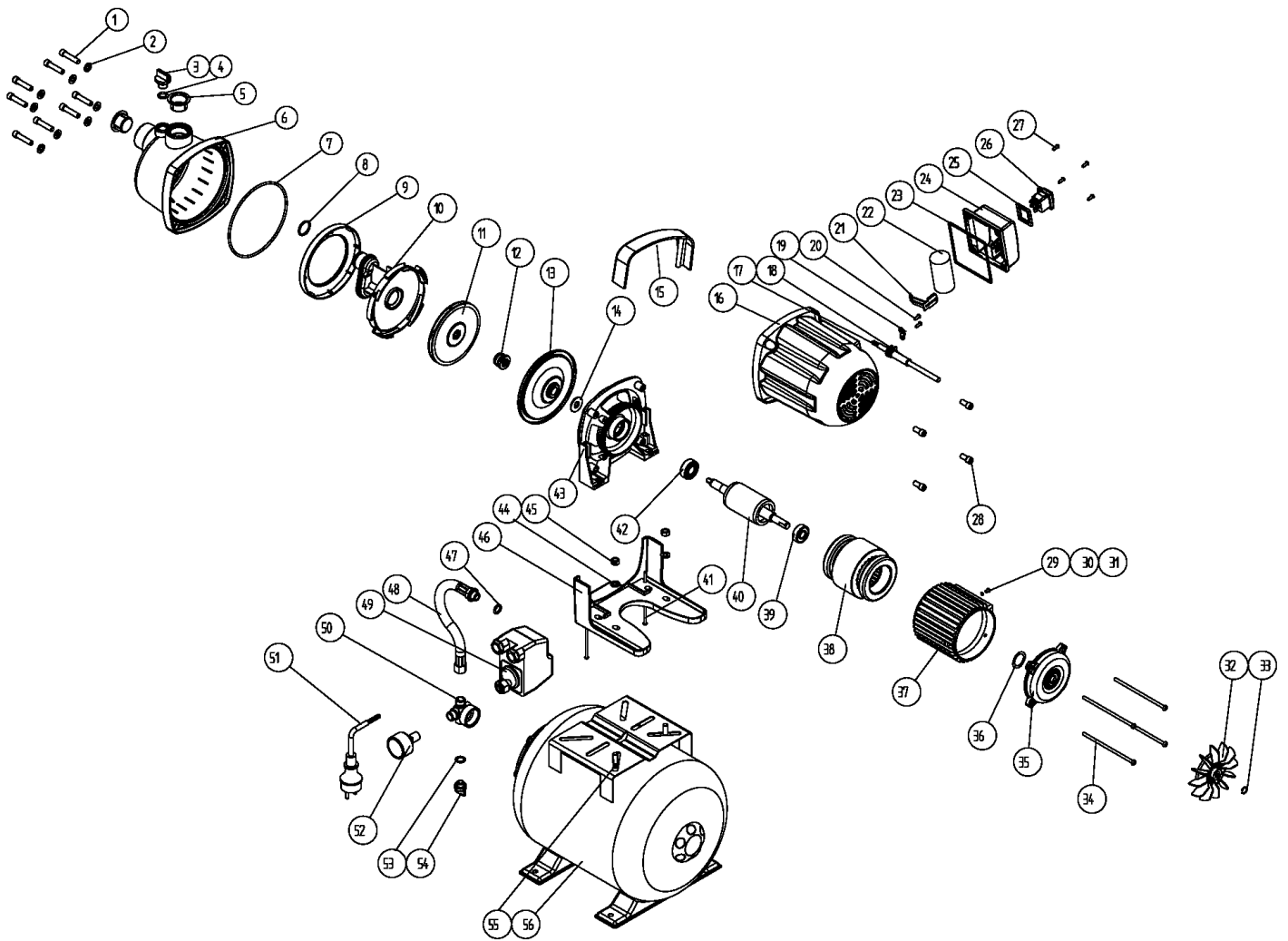
**Install indoors or in weather-proof well house only. This pump is non-submersible. DO NOT plug in the power cord when wet or standing on damp or wet ground.**



# REPLACEMENT PARTS

## REPLACEMENT PART

### Parts Diagram



Item	Description	Qty	Item	Description	Qty	Item	Description	Qty
1	hexagonal socket screw	8	20	screw	2	39	bearing	1
2	flat washer	8	21	capacitor holder	1	40	rotor	1
3	bolt of seal	1	22	capacitor	1	41	screw	2
4	O-ring	2	23	O-ring	1	42	bearing	1
5	dustproof cap	2	24	switch cap	1	43	front cover	1
6	pump housing	1	25	Switch the foam pad	1	44	O-ring	2
7	O-ring	1	26	waterproof switch	1	45	locknut	2
8	O-ring	1	27	screw	4	46	base	1
9	spring washer	1	28	hexagonal socket screw	4	47	O-ring	1
10	first orifice plate	1	29	screw	1	48	pressure soft pipe	1
11	impeller	1	30	O-ring	1	49	pressure switch	1
12	mechanical seal	1	31	O-ring	1	50	cross pipe	1
13	second orifice plate	1	32	impeller	1	51	power cable&plug	1
14	rubber ring	1	33	spring washer	1	52	manometer	1
15	handle	1	34	screw	4	53	O-ring	1
16	motor cover	1	35	rear cover	1	54	bolt of seal	1
17	cord jacket	1	36	under washer	1	55	screw	2
18	power cable&plug	1	37	motor holder	1	56	steel tank	1
19	cord clip	1	38	stator	1			

# INSATALLATION

MODEL	71038
NOMINAL V/Hz	115V/60Hz
NOMINAL OUTPUT	1-3/5 HP
PROTECTION TYPE	IPX4
MAX HEIGHT	151FT
MAX SUCTION HEIGHT	27FT
MAX PUMP RATE	1000GPH
MAX FLUID TEMP.	95 F
PRESSURE LINE DIAMETER	APPROX. 33 mm OR 1"
SUCTION LINE DIAMETER	APPROX. 33 mm OR 1"
WORK PRESSURE	1.5 - 3.0 BAR

## SETUP AND INSTALLATION

This device must be placed on a horizontal, rigid and level surface that is capable of supporting the total weight of this device when filled with water. To prevent vibration or movement, place the device on an elastic base support like a rubber mat. For stationary use, this device can be screwed down firmly to the base with four screws.

When being used on garden ponds or swimming pools, this device must be set up to guard against overflowing and protected from being submerged.

the installation site must be well ventilated and protected against the effects of weather. If operating this device indoors, you must ensure there is a drain in the flooring or a leak detection mechanism.

Before starting, check that the suction hose is sealed. Bubbles in the hose is an indication that there may be leaks and may lead to device malfunction.

**The suction line must be installed so that it does not exert any mechanical force or tension on the pump. If the conveying medium is contaminated, a suction filter must be used to pump from sand and dirt.**

**NOTE:** A check valve is recommended so that the water does not run off when the pump is shut off.

- All connections must be sealed with fermit paste or thread sealing tape to prevent leaks that cause air exhaust and reduce or prevent water exhaust.
- Hemp should be used in case of pipe threads from metal; synthetic thread must be sealed with thread sealing tape.
- All components of the suction line must be installed by a qualified technician.
- The suction pipe should have an internal diameter of 25 mm and must be kink resistant and suitable for vacuum use.
- The suction line should be as short as possible, since the conveying capacity decreases as the length of the line increases.

# SETUP

- The suction line should ascend steadily toward the pump to prevent air pockets.
- Sufficient water supply must be assured; the end of the suction line should always be in water.



**DANGER:** Avoid damage to the device. The suction line must be installed so that it does not exert any mechanical force or tension on the pump.

- All components of the pressure line must be compression-proof.
- All components of the pressure line must be professionally installed.

The device can also be connected firmly to a pipe system (domestic water supply in the interior). In this case, the device should be connected to the pipe system with elastic high pressure flexible hose lines in order to prevent vibrations.



**DANGER:** If components are not compression-proof or if they are improperly installed, the pressure line can burst causing serious injury. Seek professional help if you are unsure.

## OPERATING THE DEVICE

1. Unscrew the pump cover
2. Fill completely with water
3. Reinstall the filter and screw on the pump cover and seal back on
4. To shorten the intake time, fill the suction line as well
5. Open the pressure line so the air can escape during intake
6. Switch the device on
7. When the water runs out evenly, switch the device off

For better performance, installing a check line valve between the pump and suction line is recommended so that the water column remains in the suction line.

If Domestic Water Works is installed directly in the water distribution network, it is important that the water pressure from this network is added to the pump pressure. A total pressure of 6 bar must not be exceeded.

**NOTE:** The boiler includes rubber bellows, which is under air pressure from the manufacturer. This enables small amounts of water to be removed without starting up the pump. Check the pressure before operating the pump and increase if necessary. The pump must not be placed in direct sunlight as this could result in too high pressure.

1. Plug in the mains plug
2. Open the pressure line (turn on the spigot or nozzle)
3. Turn on the pump at the ON/OFF switch
4. Check to be sure water is coming out.

If the motor does not start up or the pump does not build up any pressure or if similar faults occur, turn the device off and try to remedy the error.

The pump is equipped with a pressure switch. This turns the pump on if the water pressure in the boiler drops below the start-up pressure due to water removal. The pressure switch turns the pump off when the shutoff pressure is reached.

**NOTE:** The pressure switch is preset to the correct start-up and shutoff pressure by the manufacturer.

## MAINTENANCE

**NOTE:** All gaskets must be renewed after each assembly. Make sure the device and connected accessories are depressurized before carrying out any work on the device.

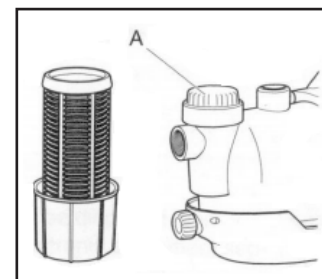
If over time, the pump starts up after a slight removal of water, approximately 0.5L, the preliminary filling pressure in the boiler must be re-established.

1. Disconnect the mains plug
2. Open the pressure line (turn on the water spigot or nozzle), allow water to completely run off
3. Unscrew the plastic butterfly valve on the front side of the boiler; the air-control valve is located behind it.
4. Attach the air pump or compressor hose to the air-control valve with a "tire valve" connection and pressure gauge.
5. Pump up, or inflate to the designated preliminary filling pressure. Preliminary filling pressure: 1.8 ~ 2.0 bar



**DANGER:** If the conveyed water is highly contaminated, clean the water after each use. A clogged filter may damage the device.

- Unscrew filter housing (A) and take out the filter cartridge
- If necessary, soak the cartridge in warm water
- Rinse the filter cartridge with clean water, brush out stubborn dirt from inside the cartridge using a soft brush.



## STORAGE

If there is danger of frost, dismantle the device and accessories, clean and store them in a place protected from frost.

### Dismantling

1. Turn off the device and unplug the mains plug
2. Open pressure line, allow water to completely run off
3. Completely empty the pump and boiler
4. Dismantle the suction and pressure lines from the device
5. Store the device in a frost free room, at least 5 °C



**SAVE THESE INSTRUCTIONS.**



# TROUBLESHOOTING

Problem	Cause	Solution
The pump won't start	<ol style="list-style-type: none"> <li>1. No power.</li> <li>2. Pressure switch disconnected.</li> <li>3. Thermal Protection cut out.</li> <li>4. Blocked impeller.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check connections, and breaker/fuse.</li> <li>2. Check gauge.</li> <li>3. Allow pump to cool.</li> <li>4. Free the impeller.</li> </ol>
The pump operates but it won't discharge water	<ol style="list-style-type: none"> <li>1. Pump not primed.</li> <li>2. Lift height exceeded.</li> <li>3. Inlet tube not submerged.</li> <li>4. Air in suction pipe.</li> <li>5. Inlet screen clogged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Prime pump.</li> <li>2. Reduce lift height.</li> <li>3. Submerge the inlet.</li> <li>4. Check pipe and seals.</li> <li>5. Clean screen.</li> </ol>
Only a low volume of water flows	<ol style="list-style-type: none"> <li>1. Inlet pipe is too small.</li> <li>2. Liquid is too dirty.</li> <li>3. Lifting height exceeded.</li> <li>4. Tank's rubber bladder under-inflated.</li> <li>5. Piping corroded, causing friction.</li> </ol>	<ol style="list-style-type: none"> <li>1. Increase pipe diameter.</li> <li>2. Clean screen frequently.</li> <li>3. Reduce lifting height.</li> <li>4. Inflate to 23 PSI.</li> <li>5. Replace piping, with plastic where possible.</li> </ol>
Motor overheats often	<ol style="list-style-type: none"> <li>1. Extension cord too long or wire size too small.</li> <li>2. Pump cycling too often.</li> </ol>	<ol style="list-style-type: none"> <li>1. Eliminate use of extension cord or use shorter/heavier gauge cord.</li> <li>2. Cut-in and cut-out pressure may be set too close together. Have the pressure switch adjusted by a qualified technician.</li> </ol>
Pump/motor cycles rapidly	Cut-in and cut-out pressure may be set too closely.	Have the pressure switch adjusted by a qualified technician.
Tank bladder will not hold pressure	<ol style="list-style-type: none"> <li>1. Air inlet valve is leaking.</li> <li>2. Bladder is broken.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check air tank for leaks using soapy water and replace bladder if needed.</li> <li>2. Replace bladder.</li> </ol>
Water pumps intermittently	Water level is being drawn below foot valve.	Lower foot valve.
Pump will not hold prime	<ol style="list-style-type: none"> <li>1. Foot/check valve not installed in suction line.</li> <li>2. Foot/check valve leaks water back to well.</li> </ol>	<ol style="list-style-type: none"> <li>1. Install foot and check valve in suction line.</li> <li>2. Replace foot/check valve.</li> </ol>
Water is full of bubbles at outlet	<ol style="list-style-type: none"> <li>1. Pumping bubbles temporarily as air is purged after initial setup.</li> <li>2. Leak in suction side of pump system.</li> <li>3. Well is gaseous.</li> <li>4. Water level below suction inlet of foot valve.</li> </ol>	<ol style="list-style-type: none"> <li>1. Temporary self-remedying issue.</li> <li>2. Check for and fix leaks.</li> <li>3. Install a sleeve in the well.</li> <li>4. Lower suction line into water and re-prime. If water is deeper than Maximum Suction Lift, then a deep well pump may be needed.</li> </ol>
Motor runs, but water is not pumping	<ol style="list-style-type: none"> <li>1. Improper priming.</li> <li>2. Air leakage.</li> <li>3. Vertical lift too high.</li> <li>4. Water level below suction inlet of foot valve.</li> <li>5. Frozen pipes.</li> <li>6. Foot valve in dirt or sand.</li> <li>7. Foot/check valve clogged.</li> <li>8. Pressure switch is set too low.</li> </ol>	<ol style="list-style-type: none"> <li>1. Prime the pump by pouring clean water into the Priming Inlet.</li> <li>2. Check all pipes and joints in the suction line for air leakage using soapy water.</li> <li>3. Reduce vertical lift to within specifications. See Installation on page 4.</li> <li>4. Lower suction line into water and re-prime. If water is deeper than Maximum Suction Lift, then a deep well pump may be needed.</li> <li>5. Thaw the pipes. Bury pipes below freeze line/insulate pipes.</li> <li>6. Raise foot valve to clean water level.</li> <li>7. Clean or replace foot/check valve.</li> <li>8. Have the pressure switch adjusted by qualified technician (20 PSI Start, 35 PSI Stop).</li> </ol>
Pump does not shut-off	<ol style="list-style-type: none"> <li>1. Pressure switch contacts welded together.</li> <li>2. Fixture (toilet, faucet, etc.) open or leaking.</li> <li>3. Impeller is clogged.</li> <li>4. Tank bladder pressure is too low.</li> <li>5. Pipeline leakage.</li> <li>6. Foot/check valve leaks water back to well.</li> </ol>	<ol style="list-style-type: none"> <li>1. Have the pressure switch replaced by a qualified technician.</li> <li>2. Close or repair fixture.</li> <li>3. Clean impeller.</li> <li>4. Inflate to 23 PSI.</li> <li>5. Repair pipeline.</li> <li>6. Replace foot/check valve.</li> </ol>

# DISCLAIMER

## PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

**Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.



**SAVE THESE INSTRUCTIONS.**

### Questions, issues or missing parts?

Before returning to your retailer, our customer service team is here to help.



Call Us: 909.628.0880

Email Us: [customer@xtremepowerusa.com](mailto:customer@xtremepowerusa.com)

Hours of Operation: 9am - 3pm PST Monday - Friday

**PRODUCT MADE IN CHINA**